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Investigation of pulsation along the red edge of the
classical instability strip using space photometry and
ground based spectroscopy

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Die Astronomie ist mir deswegen so wert, weil sie die einzige aller Wissenschaften ist, die auf allgemein anerkannten, unbestreibaren Basen ruht, mithin mit voller Sicherheit immer weiter durch die Unendlichkeit fortschreitet. Getrennt durch Länder und Meere teilen die Astronomen, diese geselligsten aller Einsiedler, sich ihre Elemente mit und können darauf wie auf Felsen fortbauen.

Johann Wolfgang von Goethe

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Chapter 1

Introduction

1.1 Asteroseismology

The light emitted from the surface of stars is the sole source of information that astronomers can use to study the most visible components of our universe. If we want to learn about the inner structure of the stars we have to find a way to look inside them, into regions where the physical processes, which include mixing and diffusion that power the stars, take place. Some stars allow us to do so in an indirect manner. These intrinsic variable stars emit light from their surface which changes over a time scale shorter than that of changes from stellar evolution. The most violent of them is a supernova and it can become brighter than its own galaxy. Less violent, but even more unveiling are pulsating variable stars that change their sizes over time.

More than 400 years ago the first pulsating star was discovered by David Fabricius and named Mira, "the wonderful" as it appeared and disappeared around every 11 month in the sky for a naked eye observer. Over the centuries an increasing precision in instrumentation and detection capability led to the discovery of many more pulsating stars. These stars were then categorised into different pulsation classes based on a phenomenological basis. Figure 1.1 shows the evolution of the discovered pulsation classes over the last 40 years in a Hertzsprung-Russell-diagram (HRD).

By observing these pulsating stars it is possible to probe their interior which is

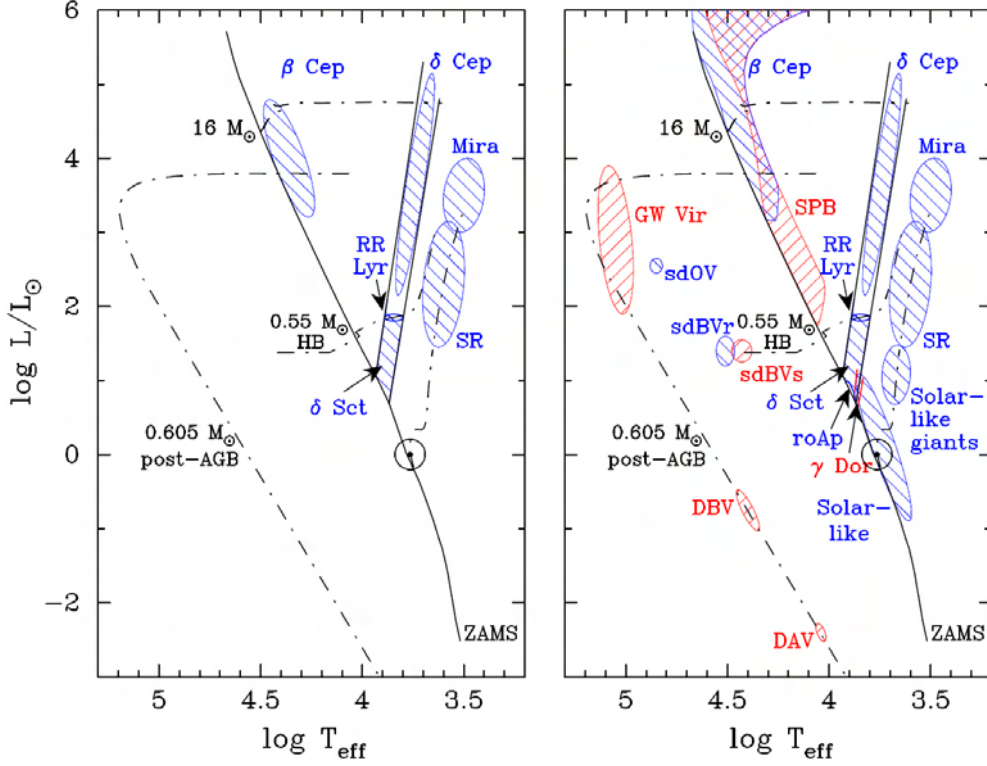


Figure 1.1: Variable stars and pulsation classes 40 years ago (left panel) and today (right panel) across the HRD (taken from Handler, 2010).

not accessible to direct observation. Stars that are regular pulsators change their radius, shape and temperature periodically, which causes the variation in their brightness. By measuring the frequency and amplitude of these variations and by identifying the geometry of these modes it is possible to model a star. This allows to derive basic properties such as the famous period-luminosity relation in Cepheid stars which can be used to determine distances to other galaxies.

1.2 Pulsation

For stars it is possible to pulsate radially and non-radially. In the case of slow rotation or no rotation they are assumed to be basically spherical. Spherical harmonics are used to describe radial and non-radial pulsators:

$$Y_l^m = (-1)^m c_{lm} P_l^m(\cos \Theta) e^{im\phi} \quad (1.1)$$

where Θ is the co-latitude angle from the pole and ϕ is the longitude. P_l^m is the Legendre polynome with m for the azimuthal order and l for the spherical degree. The normalization constant (c_{lm}) is defined by:

$$c_{lm}^2 = \frac{(2l+1)(l-m)!}{4\pi(l+m)!} \quad (1.2)$$

The displacement in a spherically symmetric star can be described by:

$$\xi_r = a_{(r)} P_l^m(\cos \Theta) e^{i(m\Theta + \sigma t)} \quad (1.3)$$

$$\xi_\Theta = b_{(r)} \frac{\partial}{\partial \Theta} P_l^m(\cos \Theta) e^{i(m\Theta + \sigma t)} \quad (1.4)$$

$$\xi_\phi = b_{(r)} \frac{1}{\sin(\Theta)} \frac{\partial}{\partial \phi} P_l^m(\cos \Theta) e^{i(m\Theta + \sigma t)} \quad (1.5)$$

with r being the radius, $a_{(r)}$ and $b_{(r)}$ being the amplitudes and σ being the frequency. The azimuthal order m represents the number of nodes crossing the equator (longitudinal nodes) and the spherical degree l represents the total number of surface nodes. The nodes $l - |m|$ are parallel to the equator and called co-latitude nodes. The values m can range from $-l$ to $+l$, resulting in $2l + 1$ modes for every spherical degree. In Figure 1.2 an example is given for a $l = 3$ mode. Modes with $m = 0$ are standing wave, whereas $m \neq 0$ are wave travelling along or against the rotation of a star. The number of radial nodes is described by n , which is the number of concentric shells in the radial direction (see Figure 1.3).

For a star, the simplest mode of pulsation is the radial fundamental mode (left plot in Figure 1.3). It has no node in the radial direction and is therefore $n = 0$. The

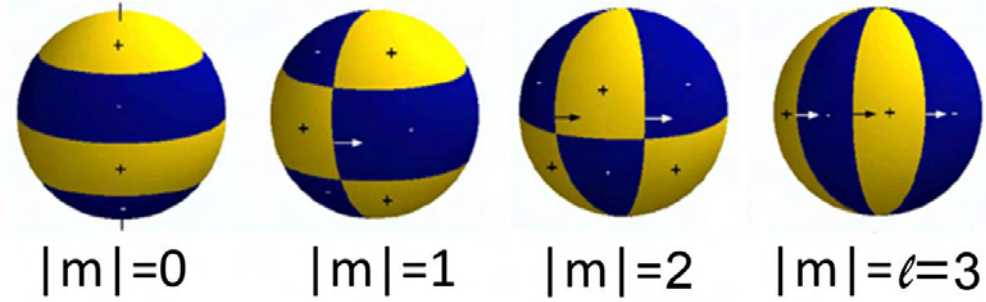


Figure 1.2: Non radial pulsation of a spherical symmetric star. Shown are all geometrical possibilities for a $l = 3$ mode. The areas shown in blue are moving away from the observer while the ones shown in yellow are moving towards the observer (taken from Zima 1999, Master Thesis).

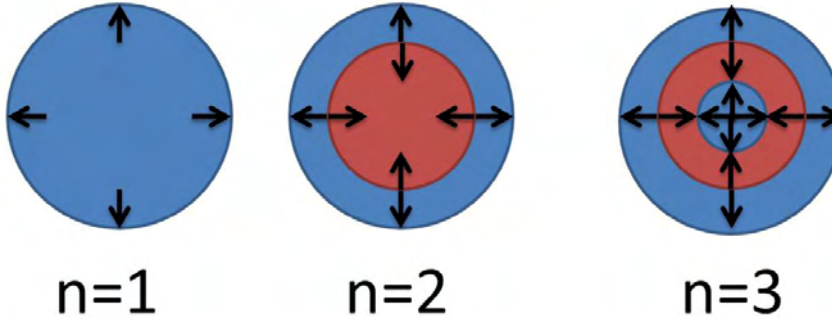


Figure 1.3: Radial pulsation: The radial fundamental and the first two overtone modes. In the radial fundamental the star expands and contracts as a whole, whereas for higher overtones concentric shells are expanding (shown in blue) and contracting (shown in red).

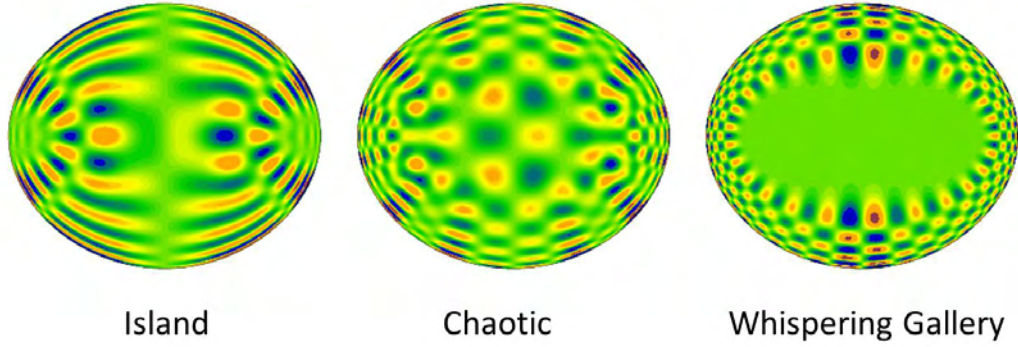


Figure 1.4: Island, chaotic and whispering gallery modes of rapidly rotating stars (taken from Reese et al. 2009).

first overtone of the radial fundamental shows one node in radial direction ($n = 1$), the second overtone two ($n = 2$) etc. In case of the sound speed being homogenous throughout the star, the ratio of the fundamental to the first overtone would be 0.33, which would only be true for a star that has homogeneous temperature and chemical composition. As this is not the case, it is possible to assess the approximate evolutionary stage of a star via the ratio of these two radial modes. For δ Scuti stars the ratio of $F/1H$ (fundamental to first overtone) is around 0.77 for a main sequence star, and around 0.71 for Cepheids (Aerts et al. 2010). For a non rotating, spherically symmetric star all $|m|$ values have the same frequencies as the central $|m|$ component. If rotation comes in play, the spherical symmetry is lifted and this frequency degeneration is overcome. The Coriolis and centrifugal force will influence the traveling waves and lead to a slightly lower frequency than the axis symmetric mode ($m = 0$) as they travel against the rotation of the star (retrograde modes) and a slightly higher frequency as they travel with the rotation (prograde modes).

Assuming moderate rotation (see Goupil et al. 2000) this can be written as:

$$\omega_{n,l,m} = \omega_{n,l,m} + m(1 - C_{n,l})\Omega + m^2 \frac{D_{n,l}\Omega^2}{\omega} \quad (1.6)$$

The mode n, l, m shows the observed frequency $\omega_{n,l,m}$ whereas Ω is the rotation frequency and $C_{n,l}$ and $D_{n,l}$ are Ledoux constants which describe the effects of the Coriolis force and the centrifugal force (mode dependent) and are derived from

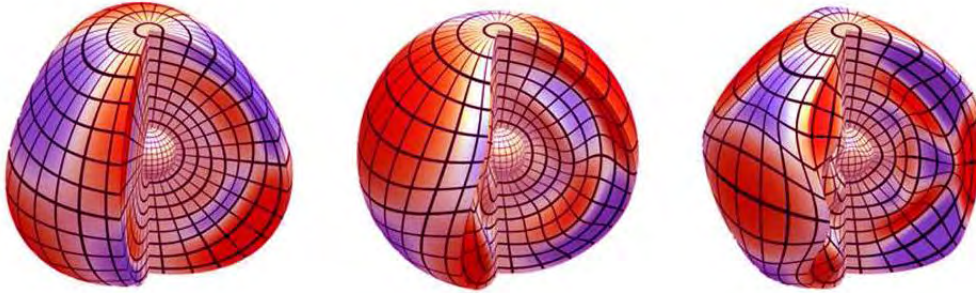


Figure 1.5: The inner structure of pulsation modes. Acoustic pressure modes (left panel), buoyancy gravity modes (middle panel) and mixed mode behaviour. (taken from Rich Townsend astro.wisc.edu/~townsend).

models. For stars with only moderate rotation the rotational splitting of the modes is approximately equidistant. As the rotation of a star increases, the asymmetry of the splitting becomes more and more evident (see Pamyatnykh 2000). For stellar rotation close to breakup velocity the effects become more and more complicated as the modes of pulsation can no longer be approximated with spherical harmonics. These modes are so called island, chaotic and whispering gallery modes (see Figure 1.4) depending on their organization patterns (Lignieres & Georgeot 2008 and 2009).

1.2.1 Gravity and Pressure Modes

Pulsation can be characterized by its restoring force. Pressure modes (p) are acoustic modes where the pressure is the primary restoring force. The motion of the gas in the star is in vertical direction only (see Figure 1.5, left panel): The gravity modes (g) have the buoyancy as the restoring force and the motion of the gas is mostly horizontally (see Figure 1.5, middle panel).

In addition it should be mentioned that another type of modes, so called f modes exists that have frequencies between those of g and p modes. They are surface gravity modes, have no radial node and exist only for $l \geq 2$.

Two important frequencies relate to the propagation of stellar oscillation modes in stars: the Lamb and the Brunt-Väisälä frequencies. The regions or cavities in a star where modes can oscillate are defined by these two relations. The Lamb

frequency determines the inverse time that is needed for a wave to travel at the local sound speed. It is defined as

$$L_l^2 = \frac{l(l+1)c^2}{r^2} \quad (1.7)$$

where l is the spherical degree and c is the local sound speed at the radius r (measured from the center of the star).

The second important frequency is the Brunt-Väisälä frequency. It is defined as the frequency at which a fluid element oscillates around its equilibrium in the vertical direction:

$$N^2 = g \left(\frac{1}{H} - \frac{g}{c^2} \right) \quad (1.8)$$

where g is the local gravity and H is the density scale height. A mode with a frequency of ω will be a g mode if $\omega^2 < N^2, L^2$ and a p mode if $\omega^2 > N^2, L^2$.

Depending on the spherical degree of a pulsation mode, different depths of a star are probed.

Following the asymptotic theory Tassoul (1980, 1990) established the relation:

$$\nu_{n,l} = \Delta\nu \left(n + \frac{l}{2} + \tilde{\alpha} \right) + \epsilon_{n,l} \quad (1.9)$$

with n , l being the radial order and the spherical degree, $\tilde{\alpha}$ being a constant of order unity, $\epsilon_{n,l}$ a small correction term and $\Delta\nu$ the large frequency separation which is a very important tool in asteroseismic analysis because it defines the inverse of the sound speed a wave needs to travel from the core of a star to the surface and back again:

$$\Delta\nu = \left(2 \int_0^R \frac{dr}{c(r)} \right)^{-1} \quad (1.10)$$

with $c(r)$ being the sound speed. The large frequency separation is therefore a measure for the mean density of a star.

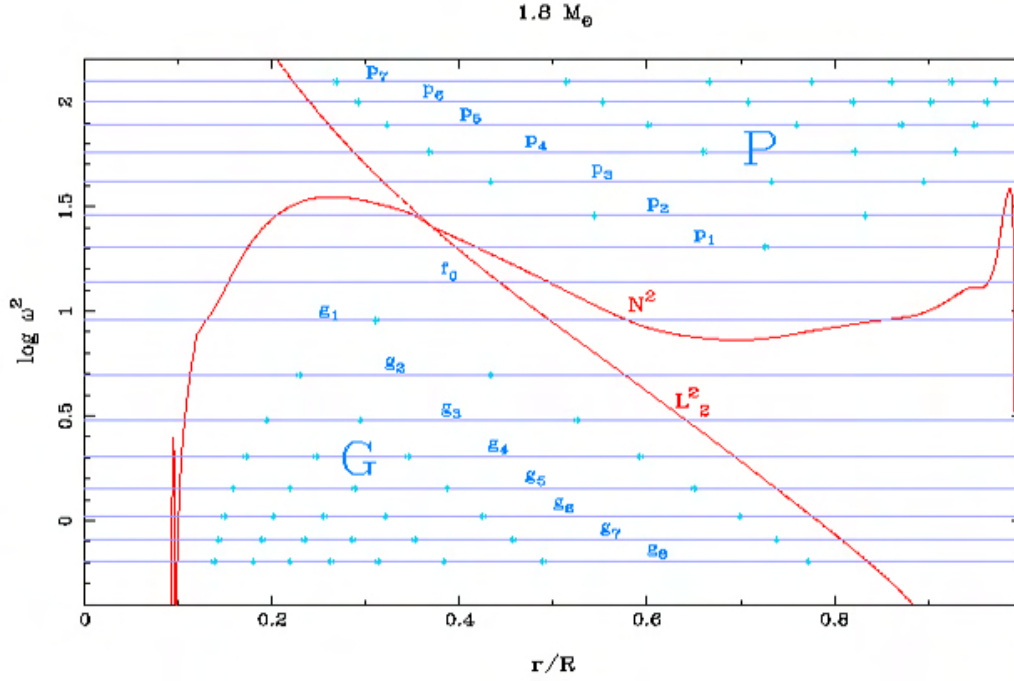


Figure 1.6: Propagation diagram of a stellar model of 1.8 solar masses. The equilibrium model is taken from Antonio Claret, and the frequencies from Rafael Garrido (private communication).

For g modes, the equal spacing in period is given by:

$$\Pi_{n,l} = \frac{\Pi_0}{\sqrt{l(l+1)}} (n + \epsilon) \quad (1.11)$$

with n , l being the quantum numbers and epsilon being a constant. The term Π_0 is defined by the integral over the cavity of a g mode:

$$\Pi_0 = 2\pi^2 \left(\int \frac{N}{r} dr \right)^{-1} \quad (1.12)$$

where N is the Brunt-Väisälä frequency.

Figure 1.6 shows a propagation diagram illustrating p- and g-modes as well as the Lamb and the Brunt-Väisälä frequencies. The vertical axis shows the oscillation frequencies of the model and the horizontal axis gives the radius, with $R = 1$ being

at the stellar surface. Each point is an oscillation node, which is a point inside the stellar radius where the oscillation amplitude is equal to zero. The region between the two cavities ($N^2 < \omega^2 < L^2$) is called the evanescent region, where the modes are damped.

The diagram also indicates the Brunt-Väisälä frequency (N) and the Lamb frequency (L) for the spherical harmonics with $l = 2$, scaled to the sound speed in that region. There are two areas of modes: for P, the number of nodes increases with increasing frequency. The restoring force in these modes is pressure, hence they are p-modes. In the second area (G) the opposite happens and the number of nodes increases with decreasing frequency. In this case the restoring force of the oscillation is gravity, hence they are g-modes.

The model shown in the diagram is for an unevolved main sequence star, meaning a star at the beginning of its hydrogen core burning phase. This changes completely when the star evolves, which makes the change in behaviour useful as a tool in the study of stellar interiors. The change is caused mainly by the gravity modes, which gradually intrude into the frequency range of the pressure modes, giving rise to mixed modes, which behave like gravity modes in the interior and pressure modes in the exterior. If the frequencies are close to one another, avoided crossing (Aizenman et al. 1977) occurs, which is also an excellent tool to probe the interior of stars.

Another evolutionary effect is the appearance of more modes within the same frequency ranges, causing a denser frequency spectrum. The direct observation of the modes and the comparison with models gives the theoretical stellar ages, which unfortunately generally does not coincide with the age derived from different methods.

In Figure 1.7 the propagation for p modes of different spherical degree is illustrated. The inner turning points are shown as dashed circles, where the wave front is reflected back towards the surface of the star because of a sudden drop in density. At the point where the Lamb frequency is equal to the mode frequency the total internal reflection occurs. The frequency increases for p modes as the radial order gets higher, but decreases for g modes. For consecutive radial orders with $n \gg l$ the frequencies of same l values are approximately equally spaced, whereas the g modes are equally spaced in period. Compared to theory, observations show a much

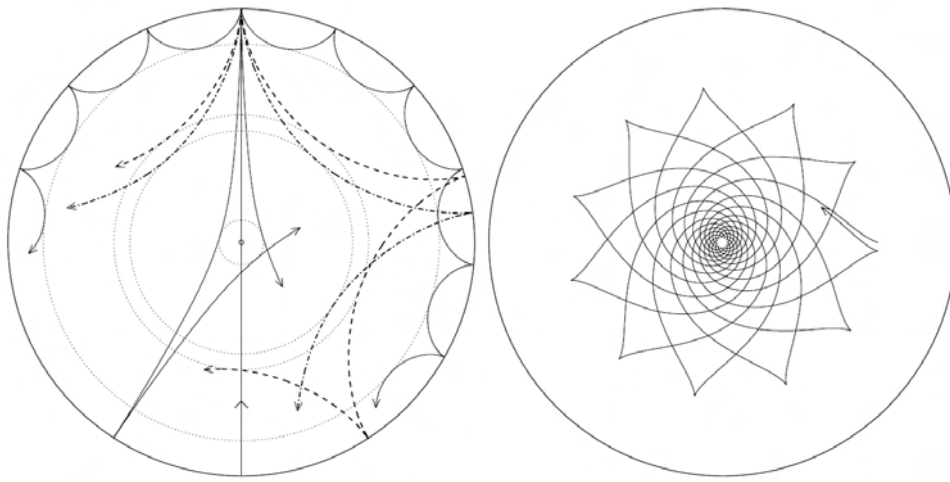


Figure 1.7: The left panel shows the propagation of acoustic pressure modes. The radius where the wave is reflected is depending on the spherical degree l . Due to the increasing sound speed with depth, the wave reaches its inner turning point. On the surface the wave gets reflected because of the rapid decrease in density. The path of $l = 0$ (black line), $l = 2$, $l = 20$, $l = 25$ and $l = 75$ are shown. The line passing through the centre schematically illustrates the behaviour of a radial mode. The right panel shows the g mode ray path which corresponds to a mode that is trapped in the interior (taken from Cunha et al. 2007).

more complex behavior.

1.3 δ Scuti Stars

The δ Scuti stars are pulsators located in the classical instability strip (IS). Figure 1.8 shows their location in the Hertzsprung-Russell-Diagram for models with time dependent convection (TDC) treatment (Dupret et al. 2005).

Some δ Scuti stars show only radial pulsation, but the majority is simultaneously pulsating in a large range of radial and nonradial p-modes. The modes found by photometric techniques from ground are low-degree (≤ 3) and low-order (≤ 7) p and g modes. As the pulsation theory in the classical IS is well established, they are ideal candidates for asteroseismological comparison of observational data and models. The oscillations in pulsating stars are introduced by several different driving mechanisms, one example is being a heat engine that converts thermal energy into mechanical energy (Eddington 1919, Cox 1963). During the contraction of the star, the temperature and pressure increases, leading to an increased opacity (κ) in different layers of the star which blocks the radiative flux from below. During the stars return to its state of equilibrium the stored thermal energy is transformed into mechanical momentum and the layers of the star will shoot past the point of equilibrium. During the expansion of the star the pressure and temperature are decreasing, as is the opacity (ionized gas is more transparent). When the star stops expanding and starts to contract again, the ions are recombining and the opacity raises once more starting a new cycle. The layers involved in the pulsation are zones that are connected to partial ionization of abundant elements which only takes place at certain temperatures. At around 14000K zones of neutral Hydrogen and Helium are ionized close to the surface of the star. At around 40000K the ionization of Helium II takes place and iron elements are ionized at around 200000K (Z bump). For δ Scuti, RR Lyrae and Cepheid stars the driving in the He II zone is the main source of excitation. These stars lie in the classical instability strip (IS). For stars more massive like the β Cephei or SPB stars, the pulsation is driven by κ mechanism acting in the iron opacity zone.

In the less massive sun like stars, where the κ mechanism is not strong enough to act as a driving force, the modes are intrinsically stable. The acoustic energy of the convection is never the less more than enough to cause resonance effects in a star with a portion of the energy transferred into oscillation modes (Kallinger et

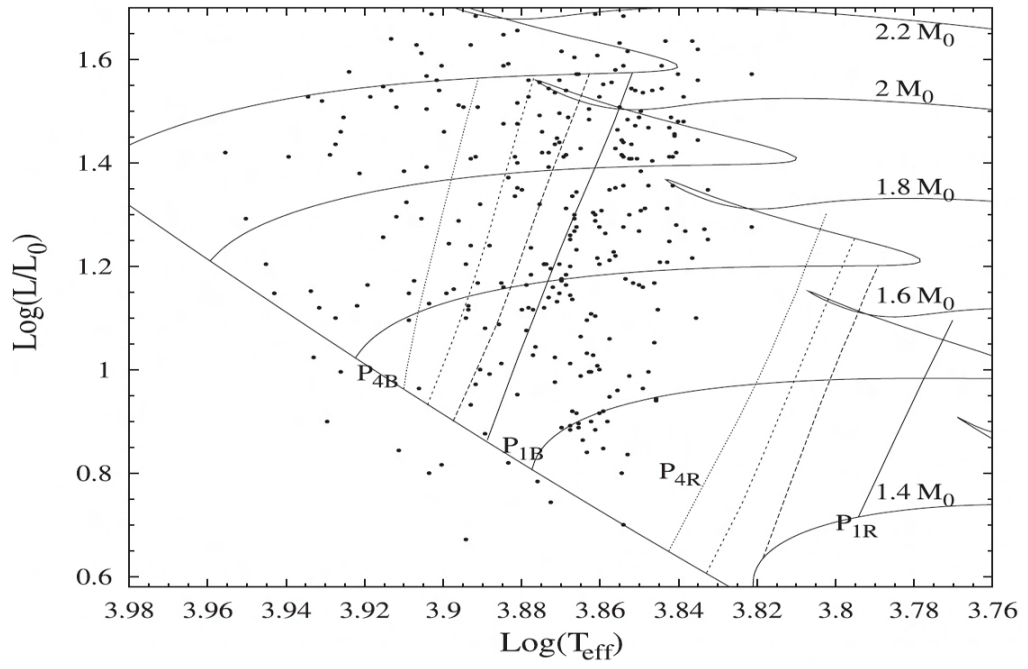


Figure 1.8: Blue and red edge of the theoretical δ Scuti instability strip for models with $\alpha = 1$ and $l = 0$ modes from p_1 to p_4 for time dependent convection (Dupret et al. 2005).

al. 2010). Because sun like stars possess a large number of convective cells this excitation is stochastic. If a mode is excited in one convection cell and it turns over, this mode is damped but it will immediately get re-excited by a next convection cell at the same frequency but with a different phase. This pulsation mechanism is very different to the κ mechanism which creates coherent pulsation, allowing to discriminate those two during frequency analysis. All modes in a certain frequency range are excited, allowing mode identification. Unfortunately, in contrast, the mode selection in the κ mechanism is not understood, making a seismic modelling of δ Scuti stars very hard (Dziembowski & Krolikowska 1990).

For a star to pulsate, several requirements have to be met in order for a specific mechanism to work. For δ Scuti stars the κ mechanism has to be excited which means the He II ionization zone will only trigger pulsation if the zone is not too deep inside the star because convective layers above would dampen the oscillation. On the other hand, if the zone is too high up in the atmosphere of the star, the low density will dampen the pulsation too. Furthermore, modes will only be excited if the thermal time scale of the driving zones corresponds to the periods of oscillation (Pamyatnykh 1999). For pure pressure modes the pulsation periods are always shorter than the dynamical time scale of a star, which corresponds to the time the star needs to return to its state of equilibrium. This dynamical time scale can be estimated by:

$$\tau_{dyn} = \sqrt{\frac{R^3}{GM}} = \sqrt{\frac{1}{G\bar{\rho}}} \quad (1.13)$$

with ρ being the average stellar density to which the periods of pulsation are related via the dynamical time scale of the star. This allows to define a pulsation constant Q :

$$Q = P \left(\frac{M}{M_{\odot}} \right)^{\frac{1}{2}} \left(\frac{R}{R_{\odot}} \right)^{-\frac{3}{2}} = P \sqrt{\frac{\rho_{\odot}}{\rho}} \quad (1.14)$$

with P being the period of pulsation. For the radial fundamental mode the pulsation constant is between 0.03 and 0.04 days for stars all over the HRD. For δ Scuti

stars Q is around 0.033 days. Pure gravity modes always have a Q value larger than the radial fundamental and acoustic modes have a value that is smaller or equal. This can be used to differentiate the types of pulsation with the empirical relation (Breger 2000):

$$\log Q = -\log f + 0.5 \log g + 0.1 M_{bol} + \log T_{eff} - 6.456 \quad (1.15)$$

with f being the observed frequency.

1.4 γ Doradus Stars

Gamma Doradus stars are pulsating intermediate mass stars (1.5 to 1.8 solar masses) and are located around the red border of the classical instability strip in a narrow region in the HRD (Figure 1.9).

They are pulsating in high order gravity modes with low frequencies of up to a few cycles per day. The variability of the name giver of this class of variables is known since the 1960s but it took until the 1990s that γ Doradus stars were established as a new class (Kaye et al. 1999). On the cool edge of the IS the convective zones of partially ionised He and H start to merge and form a single convective envelope. Until now the extent of this convective envelope is not fully understood and strongly depends on the modelling of convection (Dupret et al. 2007). Guzik et al. (2000) suggested a flux blocking mechanism at the base of the convective envelope as the driving mechanism. Dupret et al. (2004) showed that by using time dependent convection (TDC) treatment a more realistic modelling of the driving mechanism is possible. As the exact modelling of the extent of the convective envelope during the evolution of a star is not possible in a satisfying way, the overshooting parameter α was introduced in the modelling process to compensate that lack of knowledge. Since the asymptotic theory (Tassoul 1980) applies for the γ Dor high-order gravity mode pulsation, a constant spacing in period of the radial orders can be expected. For more evolved stars this uniform spacing gets diluted as the chemical gradient inside the star gets steeper with time.

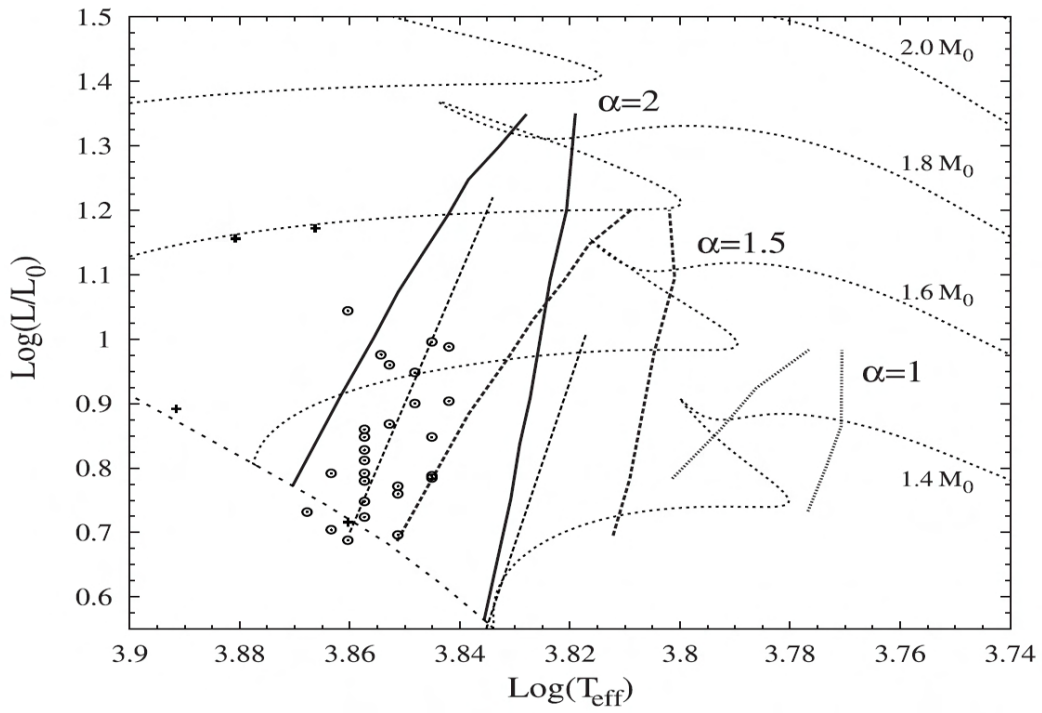


Figure 1.9: Theoretical instability strip for γ Doradus stars with $\alpha = 1$, $\alpha = 1.5$ and $\alpha = 2$ and $l = 1$ modes for TDC. The small circles correspond to observations of 27 bona fide γ Doradus stars. The crosses correspond to 3 peculiar binary stars (Dupret et al. 2007).

1.5 δ Scuti - γ Doradus Hybrid Stars

Theory predicted the existence of δ Scuti - γ Doradus hybrid stars, which show additionally to δ Scuti like p mode pulsation also γ Doradus like g modes of high radial order with pulsation periods ranging from 8 hours to 3 days (Dupret et al. 2004). The first results for several hybrids have been published (e.g. Henry & Fekel 2005, Rowe et al. 2006, Uytterhoeven et al. 2008, King et al. 2006). Many more have been found during the CoRoT and Kepler satellite missions. The first star showing hybrid behavior that was a single star was an Am star (Henry & Fekel 2005) which raised the question if the hybrid phenomenon is related to chemical peculiarities. Neuteufel et al. (2013) show on three stars that it is unlikely that there is a clear connection between Am spectral type and pulsational excitation for hybrid pulsators are concerned. One of the targets of this thesis is to shed further light on that subject. As hybrids combine the advantages of gravity modes, that carry information of the deeper layers of a star and pressure modes and probe the outer layers of a star, they are perfect candidates for asteroseismic analysis and can help to improve our understanding of these stars. As the interaction of pulsation with convection is a rather new field of research not many long time based high resolution observations are available. To detect those long period variations a long time base is needed which is provided by the Corot satellite mission. Furthermore space based telescopes mitigate the detection of variations around 1 c/d for which in the earth bound case a multi site campaign is necessary. To study the effects of chemical composition on convection in these stars, a large enough and homogenous sample is needed. In the present work I used data from wide field multi object spectrographs and conducted abundance analysis to tackle this question.

1.6 The Effects of Metallicity

It is common practice to use models with a solar chemical composition and a Z of 0.02 for the determination of stellar masses or evolutionary state from observed frequencies, as no abundance analysis can be performed due to a lack of good enough spectroscopic observations. For most δ Scuti stars this assumption is not valid and the individual abundances can differ quite heavily from the solar ones.

For example, for the well studied star FG Vir the measured photospheric Fe/H is 0.65dex, whereas C/H is -0.63dex and Ca/H and Ti/H are 0.24 respectively 0.19dex (Russel et al. 1995) suggesting an intrinsic Z of about 0.03. This kind of anomalies are expected and are due to the diffusive settling and the radiative levitation of elements (Smith et al. 1996). In order to model a star, a large set of parameters needs to be fitted, including the hydrogen (X) abundance, the helium (Y) abundance, the heavy elements abundance (Z), a general element mixture and the internal rotation profile of the star. In general, with increasing Z, always a less evolved higher mass model exists that has the same overall observables including a nearly identical mean density and thus the same radial mode frequencies (Guzik et al. 1998), leading to false assumptions for the theoretical modelling.

In this thesis the dependence of the location of the instability strip of δ Scuti and γ Doradus stars as a function of their stellar metallicity is investigated. Further more the location of hybrid stars in the HRD and the role metallicity plays are studied.

Chapter 2

Data acquisition and data reduction

All observations, data reductions, methods, figures and software tools used in this work that are not explicitly mentioned to be done by other authors are part of my work.

2.1 Corot Space Photometry

The CoRoT (Baglin et al. 2002) space mission is a French led European space telescope with participation of ESA, Austria, Belgium, Brazil, Germany and Spain. Its main science goals are the detection of Earth size exoplanets and the study of stellar interiors through asteroseismology.

On December 27th, 2006, a Soyuz rocket put the satellite in a polar orbit at an altitude of 896km. Figure 2.1 shows an artists impression of the CoRoT satellite in orbit. As the mission objectives of Corot were twofold, it was equipped with 4 CCDs, two dedicated to high precision asteroseismology of about 10 stars per run and two CCDs to search for planetary transits. The latter CCDs were called Exofield CCDs. In the Exo-field light curves of typically 12000 stars between 10th and 16th magnitude per run were gathered. The cadence for the observations in the Exo-CCDs was 512s with the possibility to switch to a 32s oversampling mode for selected targets and 1s for observations in the Seismo-CCDs. Due to the the location of the fields of view of Corot (see Figure 2.2) the satellite could only observe the same field for a maximum of half a year continuously.

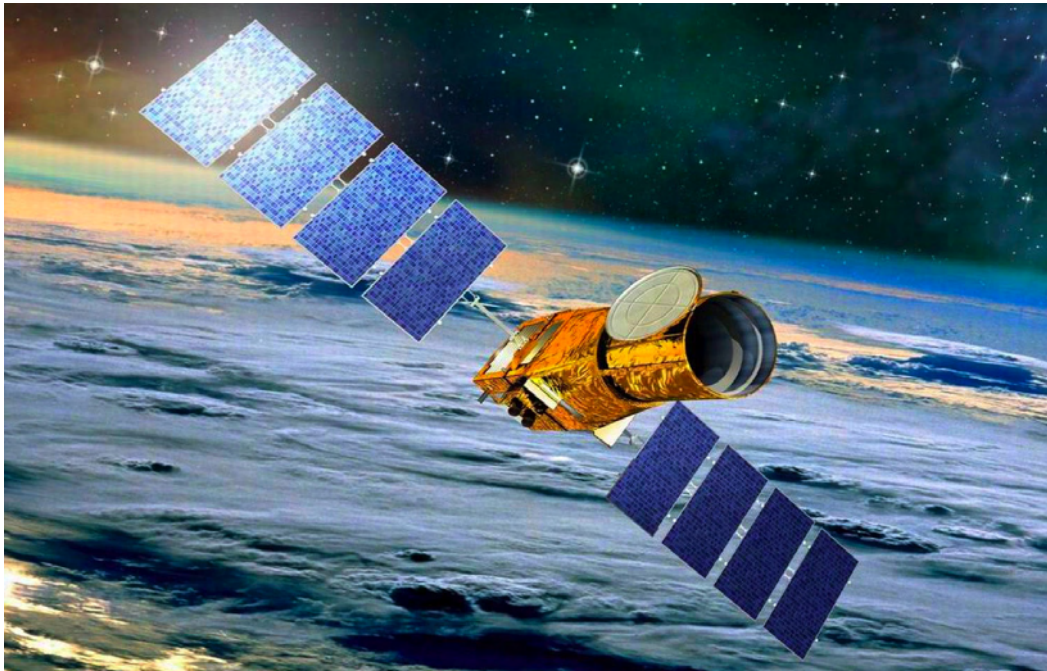


Figure 2.1: Artists impression of the CoRoT satellite.

CoRoT was equipped with a single broad band filter, allowing to maximize the amount of collected flux during an exposure. In front of the Exo-CCDs a prism created small spectra for every star, allowing to identify color independent planet transit events for the exoplanet research. Figure 2.3 shows in the center picture the four CCDs and on the right hand side the the PSF shape of the Seismo CCD on the detector plane. The left hand side illustrates the three color channels of the Exo CCD.

In general, CoRoT observed two fields per year for 150 days (called long runs, or LR). Between two long runs is a 20 day short run (SR). The different runs are labeled by their length followed by the pointing towards the center or anti-center of the Milky Way and a running number. The first long run in anti-center direction for example was named Lra01. The only exception was the initial runs that lasted for 58 days and was named Ira01.

The observed data is stored in the CoRoT mission data archive. The raw data (N1) is not accessible by scientists. The Corot data reduction pipeline (Auvergne et al. 2009) performs all necessary steps like background correction and

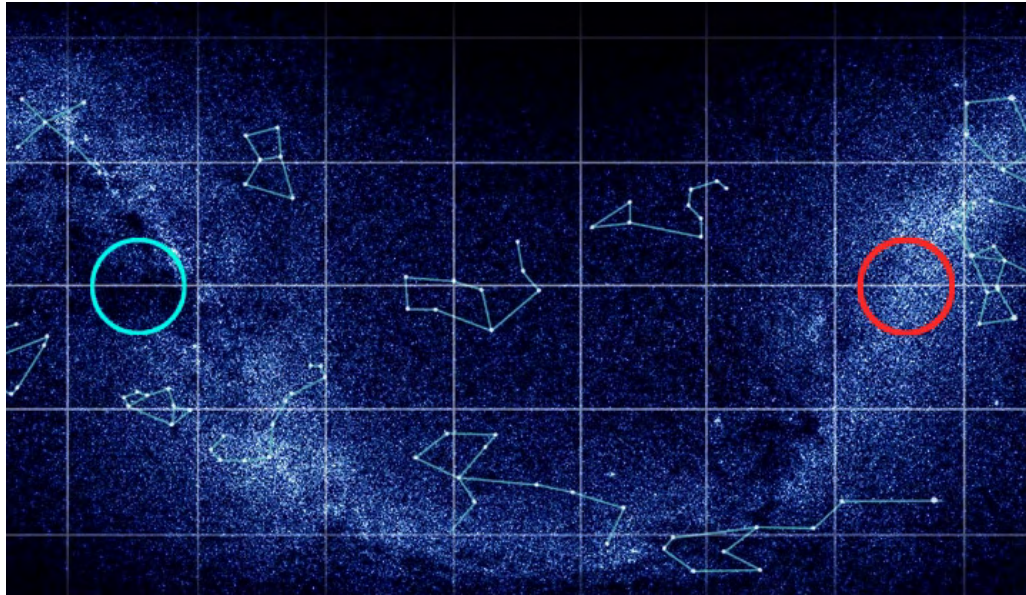


Figure 2.2: The two fields of view (eyes) of Corot. In red the winter and in blue the summer field.

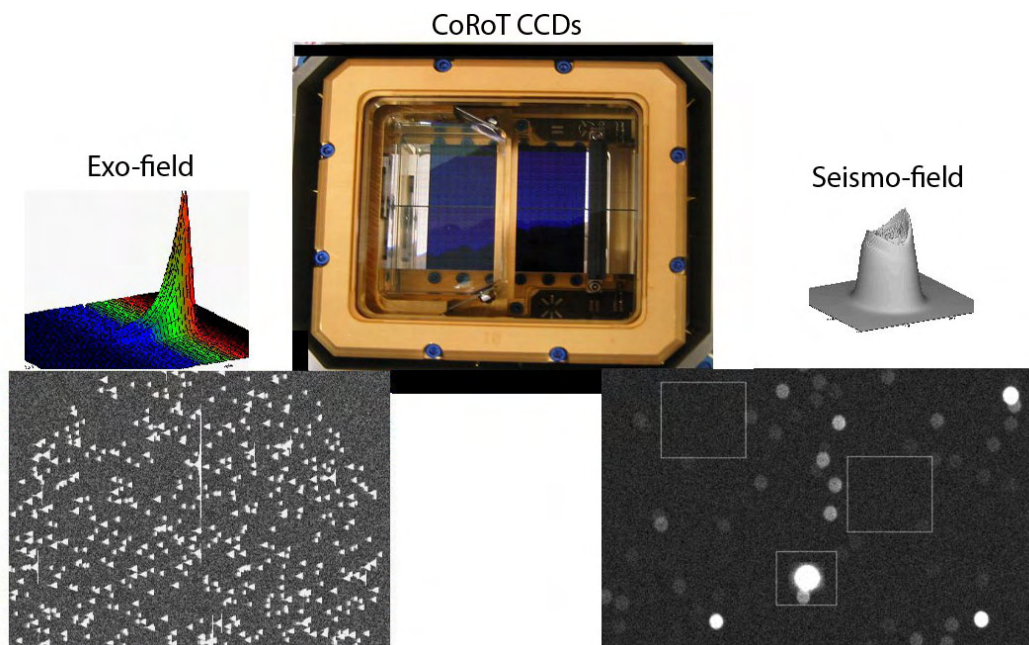


Figure 2.3: The four CCDs of CoRoT and the PSF shape on the detector plane.

provides the N2 data that is available for download from the archive.

On March 8th, 2009, two CCDs of CoRoT (one Exo und one Seismo) were lost due to technical problems, reducing the number of observed stars by 50%. On November 2nd, 2012, CoRoT suffered a computer failure that made it impossible to retrieve any data from its telescope, efforts for recovery were unfortunately no success and the CoRoT Mission ended in the beginning of 2013.

2.1.1 Space photometry - data reduction

During the Initial Run (IRa01) of CoRoT in 2007 which lasted for over 58 days the satellite was pointed at a field in the galactic plane, toward the galactic anticentre (α around 06^h 05^m and δ around 01°12′). From this run all 9872 Exo-channel light curves were extracted from the CoRoT data archive for my PhD thesis. In the two following anticenter runs (LRa01 and LRa02) which lasted for 150 days additional 22816 stars were observed resulting in a total of 32688 light curves in the Exo-channel downloaded from the archive for this work.

Every time CoRoT passes the South Atlantic Anomaly (SAA) the increased level of cosmic radiation severely disturbs the light curves. The CoRoT data reduction pipeline (Auvergne et al. 2009) replaces those data points by linearly interpolated data points and flags these events. For the analysis in this work the flagged data points were not used. A not insignificant number of light curves shows additional linear or higher order trends and discontinuities or jumps with sometimes exponential decay as results of this cosmic hit events. Figure 3.1 shows the IRa01 light curve of a star constant down to the noise limit. The red line shows a box-smooth for better visualisation of the discontinuities. As it was not a priori possible to judge whether some long term behavior is due to a stellar phenomenon or due to long term instrument instabilities all these trends were removed for all stars as the focus of this work lies only in the γ Doradus, δ Scuti and hybrid like pulsation that is not affected by this reduction treatment.

For this task an automatic detrending and desteepping routine was subsequently developed which relies on a two sample t-test. In principle this method is fairly similar to the non-automatic routine used by Degroote et al. (2009) but without the special correction for exponential behavior as it showed to be unreliable for stars

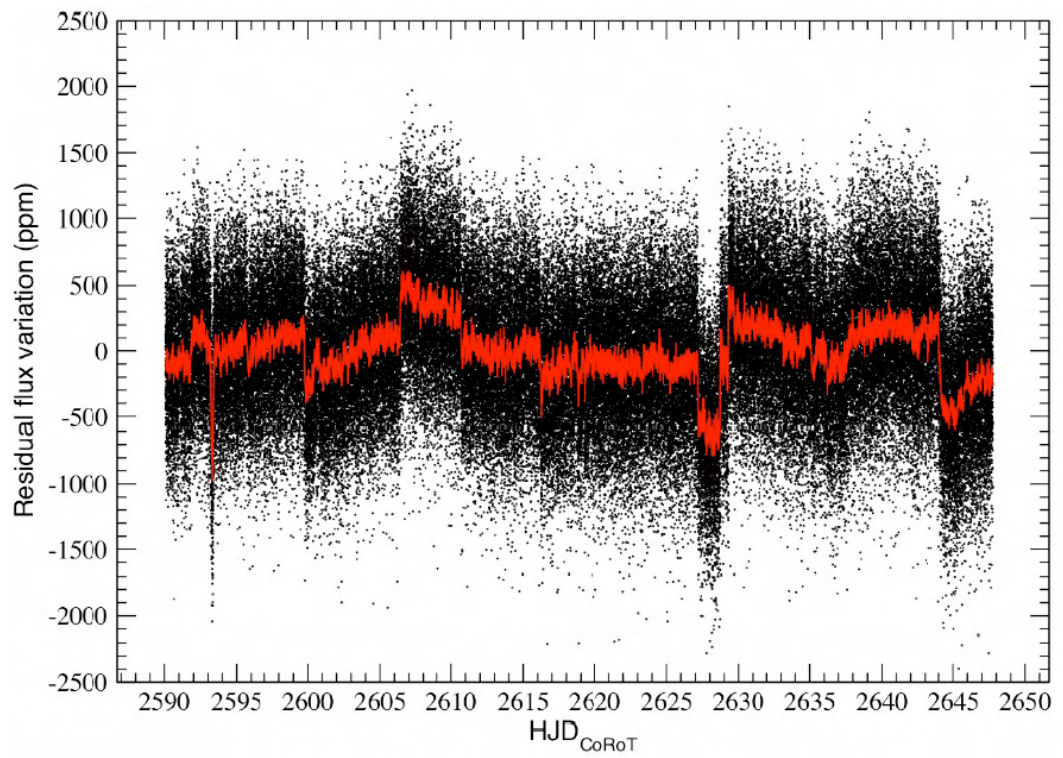


Figure 2.4: Light curve of a typical constant star in the initial run of CoRoT suffering from heavy instrumental artifacts.

with pulsation on the δ Scuti timescale. For every light curve the corresponding amplitude spectrum was computed from zero to the Nyquist frequency which lies at about 84 d^{-1} for the 512 second cadence data. The automatic search for jumps was then performed with two consecutive sliding boxes of 50 data points, equivalent to 400 minutes of observation each. For all N -(50x2) data points (N being the total number of data points, U and V being the number of data points in the sliding boxes) the significance of the t-statistic was calculated:

$$T = \frac{\bar{x} - \bar{y}}{\sqrt{\frac{\sum_{i=0}^{U-1} (x_i - \bar{x})^2 + \sum_{j=0}^{V-1} (y_j - \bar{y})^2}{(U+V-2)} \left(\frac{1}{U} + \frac{1}{V} \right)}} \quad (2.1)$$

A value larger than 4 times the sigma of the mean significance was considered to be a jump in the light curve. This jump was then compensated by means of zero averaging both boxes. This process was repeated until no more significant jumps were found. Long time trends and residual effects from the jumps, eg. exponential decaying of warm pixels and instrumental effects were then removed with a running average of 500 data points (2.8 days of observations), equivalent to a high pass filter of 0.36 c/d in the Fourier domain. As mentioned, this does not affect δ Scuti, γ Doradus and γ Doradus - δ Scuti hybrid pulsator candidates as it only suppresses the very low frequency domain. This automated routine is likely not as effective as a traditional hand made approach, but the sheer amount of the light curves in need of reduction for this work could only be performed in this way within a reasonable time frame. Additionally a quality check is performed during the hand made classification of the pulsation spectra where every reduced light curve is visually inspected for anomalies.

Figure 2.5 shows the light curve of the star CoID0102751744 with a 512s sampling where the original light curve is plotted in green and the desteped one is plotted in black. Vertical dashed lines mark the positions of identified discontinuities in the light curve. The lower panel in Figure 2.5 shows the corresponding amplitude spectra before (green) and after (black) detrending. Solid red lines in the amplitude spectra correspond to modes with a $S/N > 4$, blue lines mark frequencies related to the CoRoT orbital frequency, its multiples and 1 d^{-1} sidelobes. Vertical dashed lines mark the orbit or multiples of the orbit frequency, dotted lines corre-

spond to the respective 1 d^{-1} sidelobes of these frequencies. Furthermore constant stars show in addition always instrumental signal at $1, 2$ and 4 d^{-1} .

Figure 2.6 shows a histogram for all stars observed in IRa01 which were treated with the jump correction routine. It shows that more than 1200 stars have a timespan between consecutive jumps of around 0.5 days. From that the conclusion can be drawn that they originate from the satellite crossing the SAA as the orbit of the satellite crosses this area twice a day. More than 600 stars show an additional maximum around 0.07 days which corresponds to the 100 minute orbit of CoRoT.

Figure 2.7 shows the histogram of the jump height found in the desteped light curves. Note that most jumps consist of a series of smaller jumps.

Figure 2.8 shows the decrease in the mean noise amplitude between 70 and 80 c/d for the destepping in relation to the number of corrected jumps. The range of 70-80 c/d was chosen to estimate the noise because almost none of the stars show any signal in that frequency range. It can be seen that the light curves show usually not more than an average of up to 12 significant jumps.

Figure 2.9 shows the decrease in the mean noise amplitude between 70 and 80 c/d for the destepping of approximately 6000 monochromatic light curves from the Initial Run.

This result stresses the importance for this procedure to be applied, as all stars are affected by jumps even if they are not visible by eye.

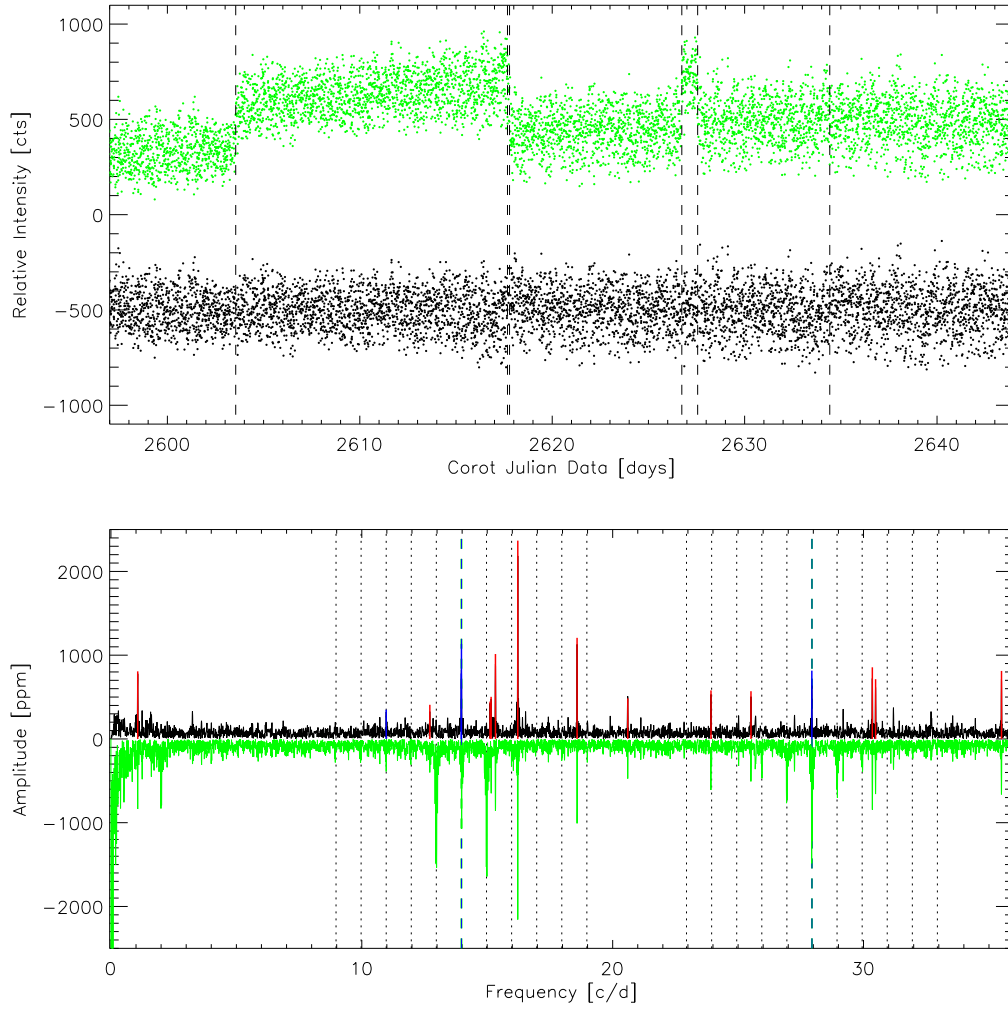


Figure 2.5: Original light curve and desteped light curve (upper panel) of CoID0102751744 with a 512s sampling. Amplitude spectra before and after desteping (lower panel). Frequencies with a S/N of greater 4 are shown in red.

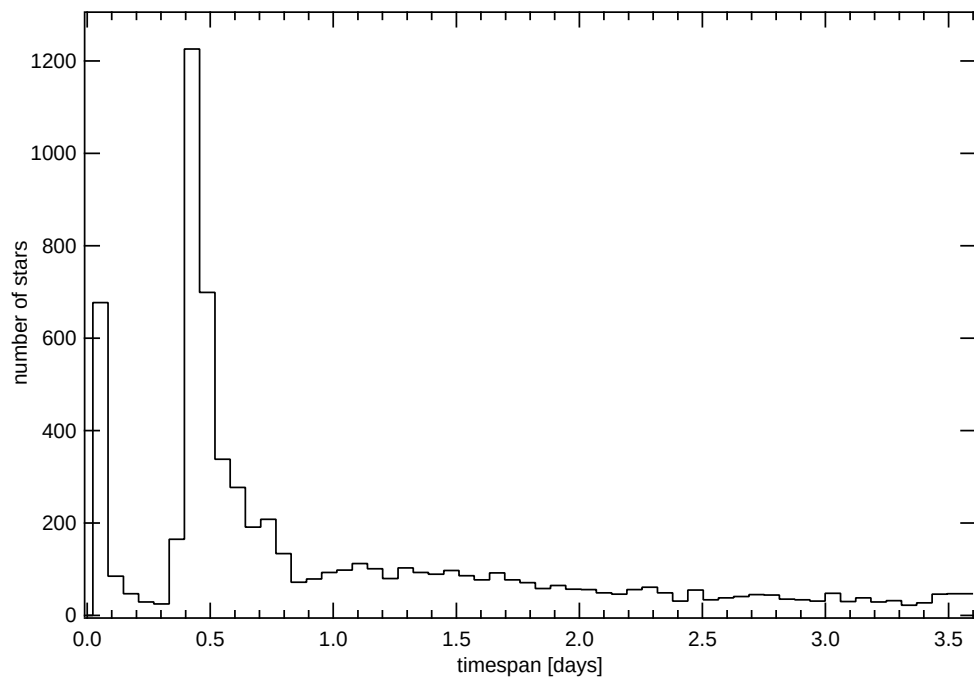


Figure 2.6: Histogram of timespan between two consecutive jumps.

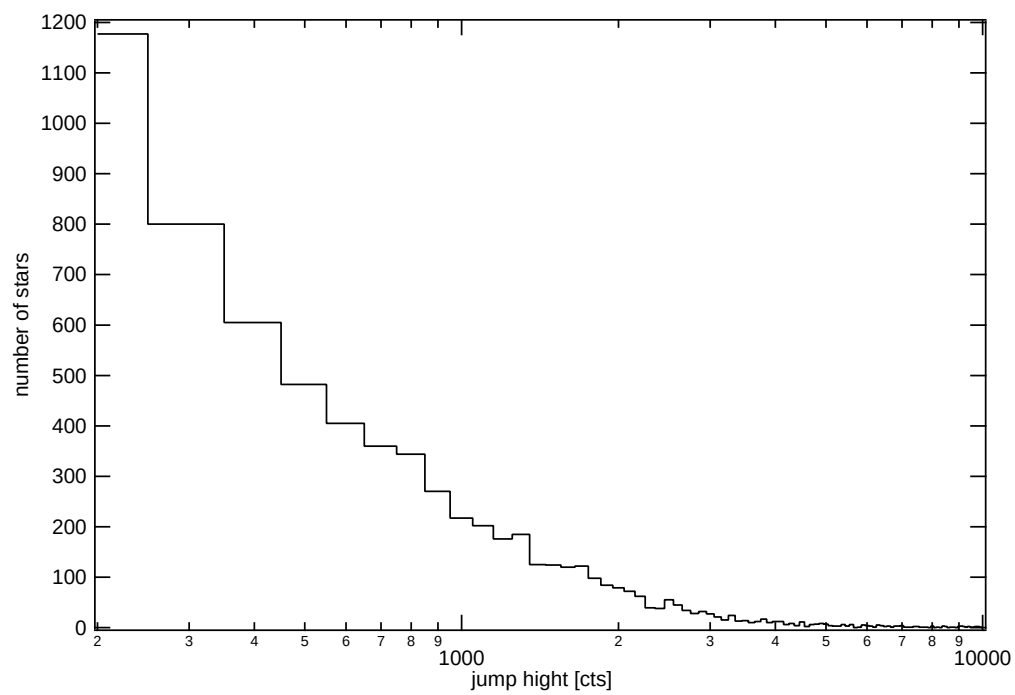


Figure 2.7: Histogram of the jump height found in the destepped light curves.

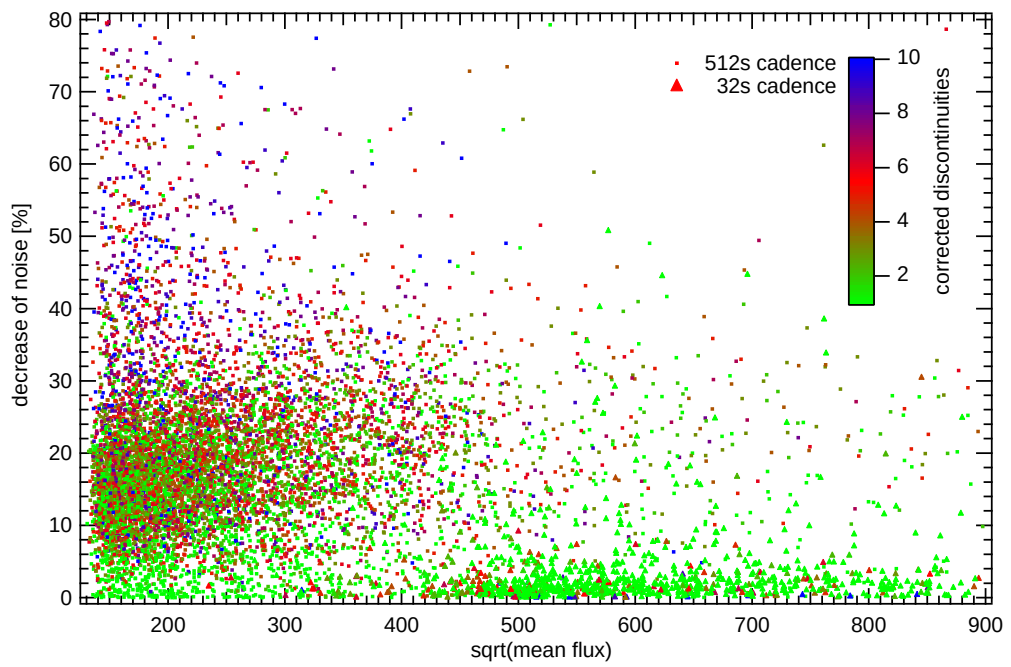


Figure 2.8: Decrease in the mean noise amplitude after destepping in relation to the number of corrected jumps.

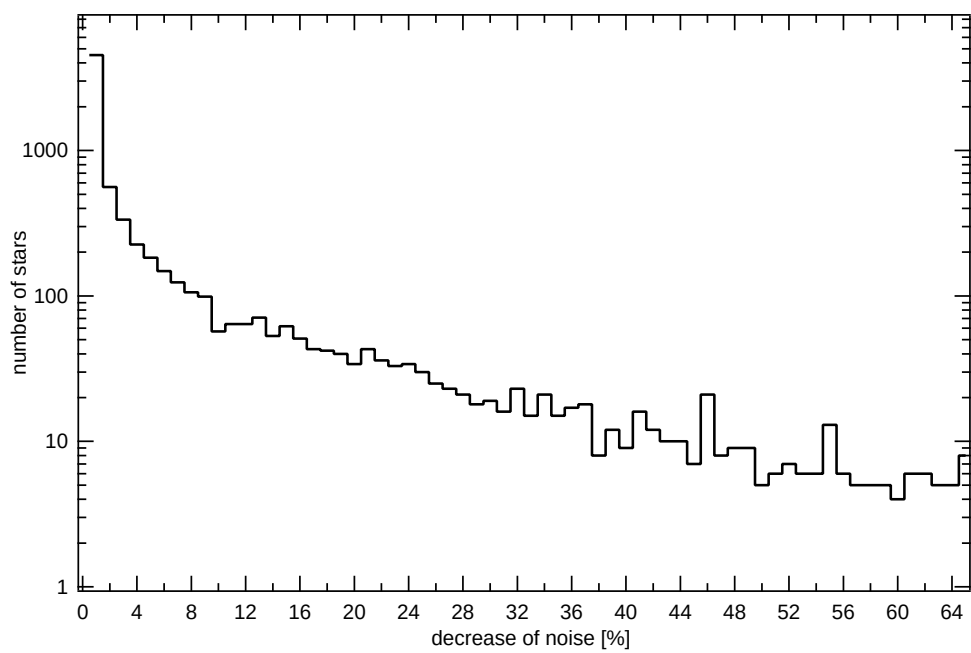


Figure 2.9: Histogram showing the decrease in the mean noise amplitude after destepping.

2.2 Ground based support observations

2.2.1 Spectroscopy - The AAO spectrograph & data reduction

A significant portion of the spectroscopic ground support observations for this work was done at the Australian Astronomical Observatory in Siding Spring, Coonabarabran, Australia. The instrument used was the AAOmega fibre-fed optical spectrograph in combination with the 2 Degree Field (2dF) robotic fibre positioner covering a two degree field at the prime focus with 392 fibres. The dual-beam (blue and red arm) AAOmega spectrograph uses two E2V 2024x4096 CCDs and provides a spectral resolution of $R=1300$ to 8000 depending on setup and wavelength region. The spectrograph was ideal for the follow up observations of CoRoT, because CoRoT fields have a size of 1.8×1.8 degrees which is a very good match to the two degree field of view of the AAO.

The observations were carried out in two campaigns by Eike Guenter. In February 2008 the stars in the fields of IRa1 and LRa1 were observed. The observations during March 2009, in the field of LRa2, completed the observation campaign. In total spectra for about 20000 stars were taken in all three fields. The AAO facility software 'Configure' was used to position the targets in an optimal way on the fibres. Each setting typically employed 350 fibres for target stars and 25 on the sky background. To optimise the exposure times, it was tried to minimize the spread of brightness of the stars in each of the settings. The observations were started with the brightest stars in the fields and then subsequently extended to fainter stars. The observations cover essentially all stars in the three first anti-center fields of CoRoT from magnitude 11 to 14.5. For the observations the 580V grating of the spectrograph was used in the blue arm and the 385R in the red arm. The spectral range was chosen from 3740 to 5810 Å in the blue and from 5650 to 8770 Å in the red. The resolution is around $R=1300$. The observing time spent on each of the fields was split in three or more subexposures in order to avoid saturation. All calibration frames (flat field, bias and arcs) were taken during the observation. As the throughput of the fibres varies with the bending of the fibres, calibration frames were taken in the afternoon before evening dawn and during the dawn in the morning. The spectra were then reduced by subtracting the bias, flat-fielding, sky background subtraction

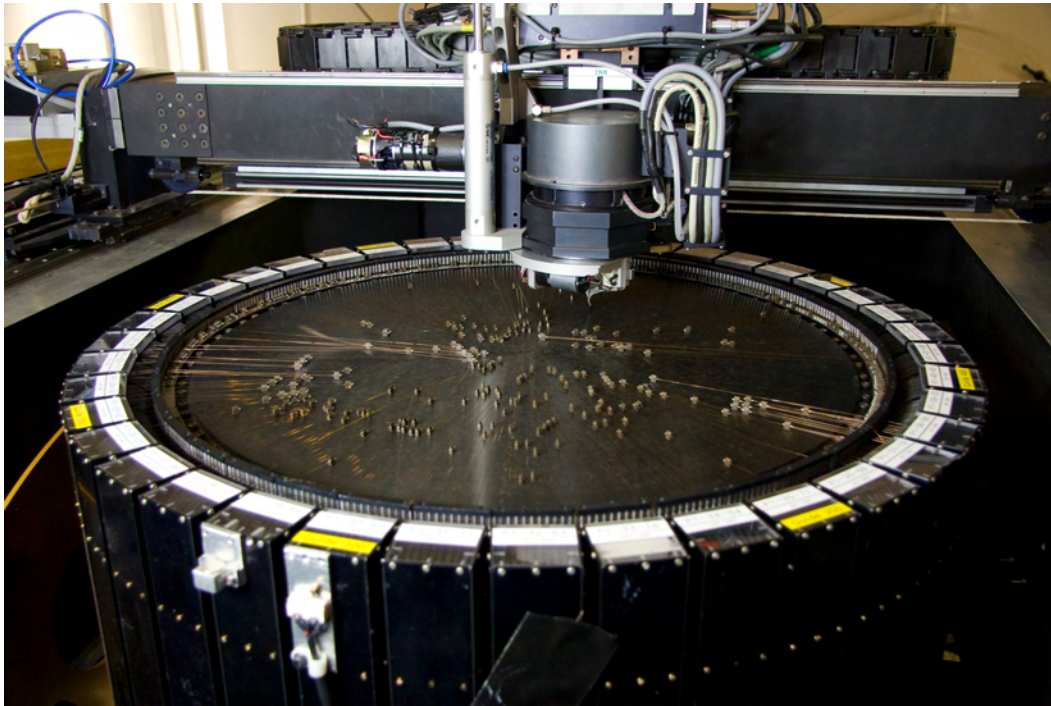


Figure 2.10: The 2 Degree Field (2dF) robotic fibre positioner at the AAO.

and wavelength calibration, using the 2dfrdr-reduction package which was developed for the AAO spectrograph. For illustration, the reduced spectra of two random stars are shown in Figure 2.12. In 2008 the red and blue wavelength domains were combined (black line), whereas in the 2009 run the two wavelength domains were stored in separate fits files (black and red line).

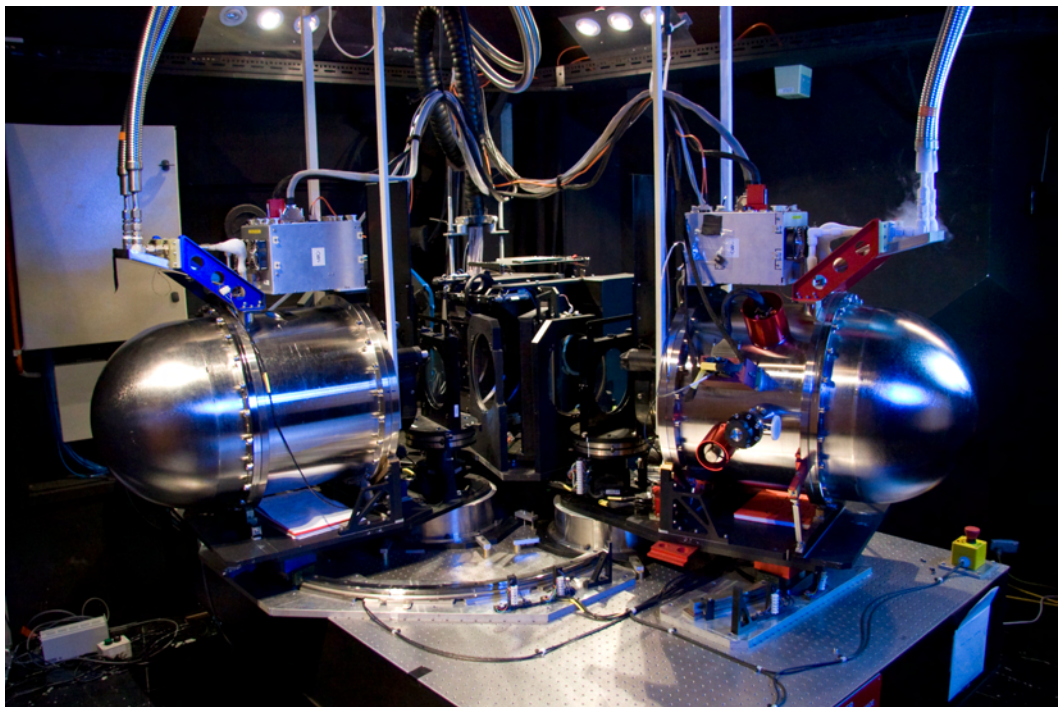


Figure 2.11: The dual-beam AAOmega spectrograph at the AAO.

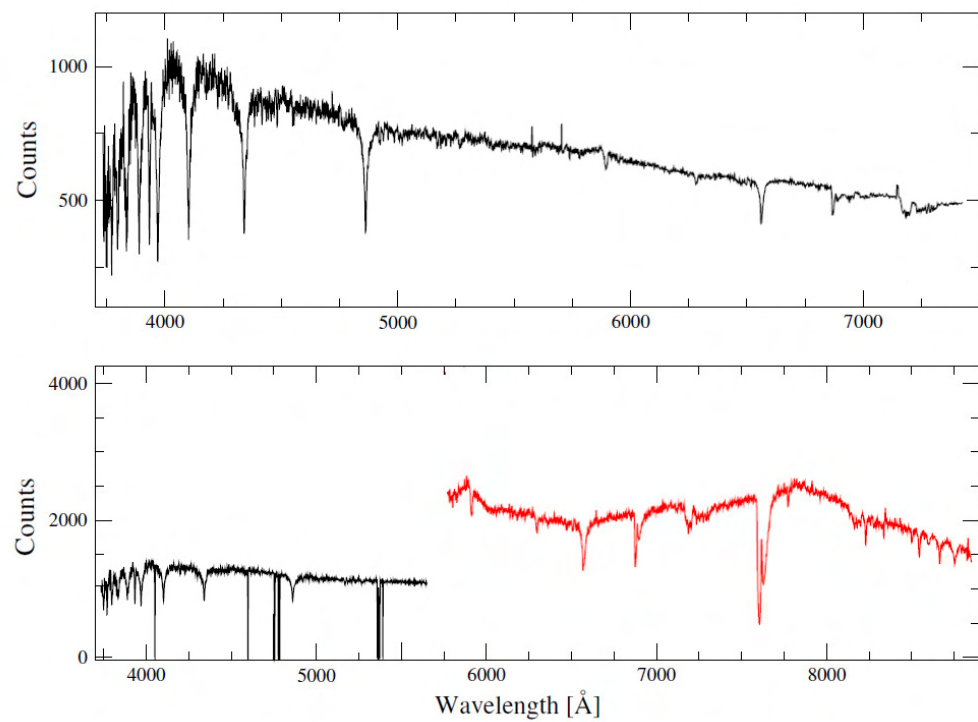


Figure 2.12: The reduced AAO spectra for the 2008 (upper panel) and the 2009 (lower panel) run of two random stars from the observations.

Chapter 3

Frequency analysis of the CoRoT EXO runs LRa1, LRa2 and IRa1

In order to classify the stars observed in the first three anti-center runs of CoRoT a detailed frequency analysis of all 5262 stars for which fundamental parameters could be derived was performed.

As this thesis is focused on the search for δ Scuti, γ Doradus and Hybrid stars, special care was taken during the analysis of the low frequency domain. Several types of variables, such as binaries, rotating stars and g -mode pulsators show variability at low frequencies. Furthermore, observational artifacts from the instrument and combination effects between the frequencies can cause misclassification of stars. Therefore the frequency spectra of all stars were visually inspected before a classification was made.

Frequency determinations were made using CAPER (see Walker et al. 2005 and Saio et al. 2006). CAPER is an iterative procedure that identifies periodicities in Fourier space and simultaneously fits a set of sinusoids in the time domain. This method of determining oscillation parameters from timeseries data follows the philosophy of the popular software packages Period98 (Sperl 1998) and Period04 (Lenz and Breger 2005). Discrete Fourier Transforms (DFTs) are calculated and each fit is subtracted from the data successively, until there is no meaningful change in the fit residuals. The big advantage of CAPER is that it needs no interactive input as in Period04 and that it is about 10 times faster as SigSpec (Reegen 2007).

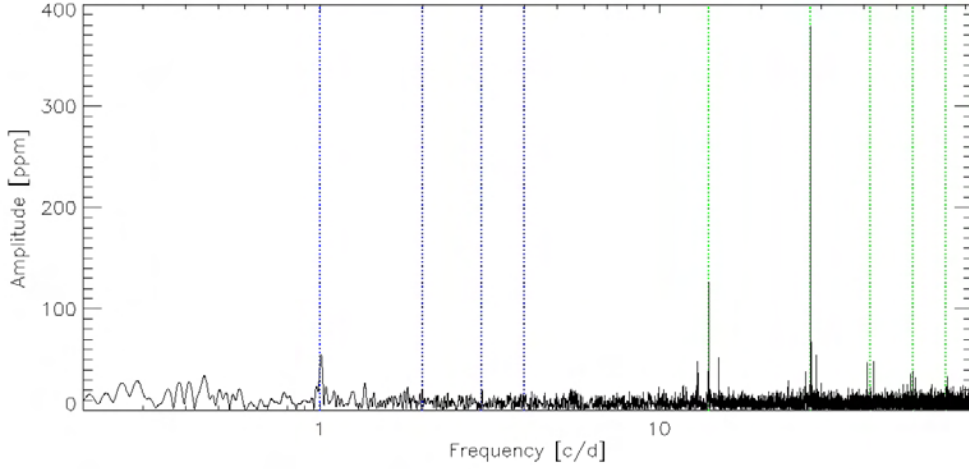


Figure 3.1: Frequency spectrum of typical non variable star (CoID 0102973454). The instrumental signal at 1 and 2 c/d can be seen. The green dashed lines indicate the orbit frequency of CoRoT and its harmonics. The visible frequency peaks near the orbit and harmonics are sidelobes.

Nevertheless selected results were checked for consistency using SigSpec.

The frequency analysis was performed for all stars with a 512 second sampling from 0 to 84 c/d and for stars with a 32 second sampling up to 300 c/d. As mentioned, the CoRoT orbit frequency at $0.07 d$ (or 100 minutes) and possibly the effect of crossing the SAA with 1, 2 and 4 c/d can be seen in the light curve of almost every star.

The actual frequency determination is straightforward. A signal is considered as significant if its amplitude exceeds four times the local noise level, i.e. $S/N \geq 4$ (Breger et al. 1993, Kuschnig et al. 1997).

Frequencies lower than 0.4 c/d are mainly due to residual effects from the jump correction routine and are subsequently ignored in the analysis if they are not clearly visible in the light curve and show a stable period in the time resolved frequency analysis.

Figure 3.1 shows the typical features of a non pulsating star (CoID 0102973454) down to a noise level of about 10 ppm. The instrumental signal at 1, 2, 3 and 4 c/d marked with the dashed blue lines is originating from the SAA. The green dashed lines indicate the orbit frequency of CoRoT and its harmonics.

3.1 YREC - The Yale Rotating stellar Evolution Code

The YREC code (Guenther et al. 1992 and Demarque et al. 2007) solves the four first order equations of stellar structure (Schwarzschild 1958) by applying the Henyey relaxation method (Henyey et al. 1964) with the mass as the independent variable in Lagrangian formulation. Furthermore a nuclear reaction network is solved for each of the shell masses with reaction rates from Bahcall (1989) and Bahcall & Pinsonneault (1992). The typical YREC model consists of 2000 shells covering the interior, the envelope and the atmosphere of a star. The latter is gray in the Eddington approximation. At temperatures below $\log T \leq 5.5$ the Saha equation for single ionized hydrogen and metals and double ionized helium is used for the particle density. All elements are assumed to be ionized for temperatures higher than $\log T \geq 6$. For the intermediate temperature range weighted averages are used. The OPAL equations of state (EOS) are from Iglesias & Rogers (1996). The opacities in the interior are taken from Rogers & Iglesias (1994) and for low temperatures from Ferguson et al. (2005). The corrections for radiation pressure and electron degeneracy are taken into account. Gravitational settling is implemented from Thoul et al. (1994). Evolutionary calculations are started from the ZAMS and are rescaled to the input mass, mixing length parameter and chemical composition and are evolved to a predefined age. This is done by relaxing a new model after changing the time term in the energy equation which is describing the the change of entropy due to the evolutionary contraction or expansion. Table 3.1 summarises the input parameters of the grid.

The actual frequencies were than calculated using JIG (Guenther's nonadiabatic nonradial pulsation code - Guenther 1994). The code solves the linearized adiabatic and nonadiabatic nonradial oscillation equations by employing the Henyey relaxation method. The equations consist of six complex first order differential equations describing the horizontal and radial components of the displacement vector, furthermore the Lagrangian variation of the entropy and the radiative luminosity, and the Eulerian perturbation of the gravitational potential. The nonadiabatic equations are only taking into account the radiative gains and losses. They include both the diffusion approximation and Eddington approximation for the treatment of the radiative flux. No magnetic fields and rotation is implemented.

Table 3.1: YREC parameters used in the grid.

Parameter	Input
solar mixture	Grevesse & Noels (1993)
OPAL95 Rosseland mean opacities	Iglesias & Rogers (1996)
low temperature opacities	Alexander & Ferguson (1994)
equations of state	Rogers et al. (1996)
energy generation rates	Bahcall & Pinsonneault (1992)
convective core overshoot	none
helium diffusion	none
mixing length parameter	$\alpha = l/H_p = 1.8$
primordial helium and metal abundance	$[Y, Z] = [0.28, 0.02]$
mass	$1 - 3 M_{\odot}$ $dM = 0.2$

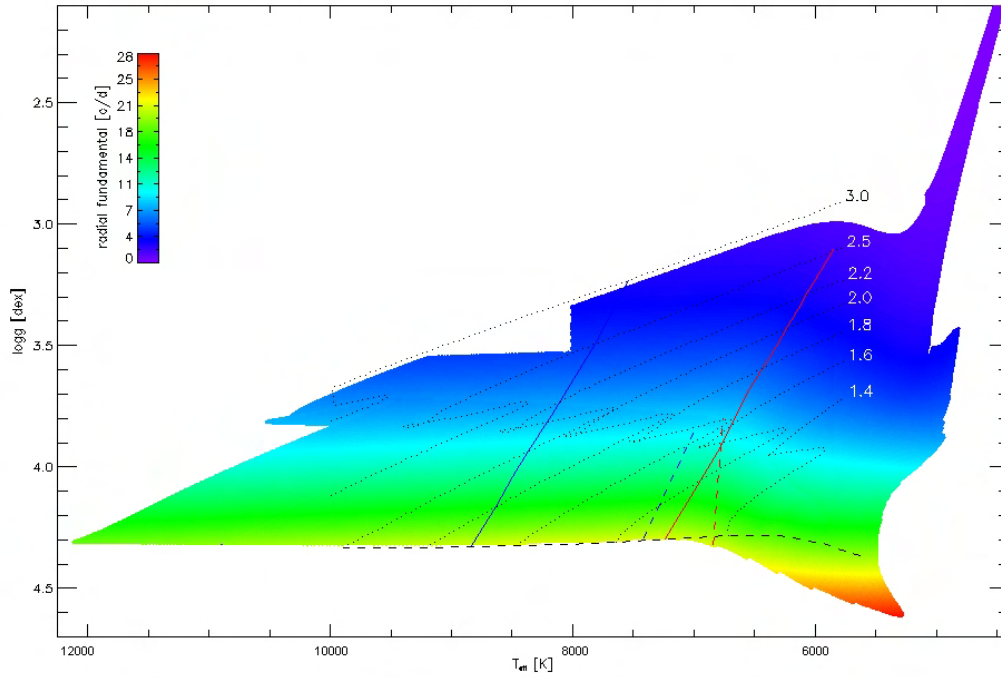


Figure 3.2: HRD of all models calculated with YREC/JIG. The frequency of the radial fundamental mode is color-coded. The solid blue lines indicate the general blue edge and the solid red line the empirical red edge of the classical instability strip. The dashed red and blue lines indicate the instability strip for γ Doradus stars. The black dashed line indicates the ZAMS.

For the classification of the stars in the sample as δ Scuti, γ Doradus or Hybrid candidate stars it is necessary to know the frequency of the fundamental radial mode. This frequency separates the domain of the γ Doradus g -mode pulsation from the δ Scuti p -mode pulsation. For this purpose a grid of models for stars with masses between 1.0 and 3.0 $M_{\odot}$ without rotation has been calculated (T. Kallinger, private communication), resulting in frequencies for the radial fundamental and the first five harmonics. Figure 3.2 shows the color-coded frequency of the radial fundamental mode for all 400000 models.

3.2 CoRoT Windescriptors

The CoRoT data archive provides for every light curve a so called windescriptor file. The file contains a section from the CCD image around the star and is taken from one of the full frame images that is taken prior to the beginning of a observing run in order to position the read-out masks for all targets. Figure 3.3 shows the windescript image of CoID 0102973454. The pixel area shown in red is the mask over which the white flux for the light curve is integrated. This image allows to inspect for a possible visual resolved binary or more likely, a foreground or a background star. Figure 3.4 shows such a case. As the edges of the PSFs of the stars intersect at the border of the mask, the signal is likely to be contaminated by the second star, i.e. the flux contributions of both stars cannot be disentangled. This leads to the possibility that variability is only intrinsic to one of the two stars or a mixture of both stellar variabilities is given. In this case the star was discarded from further analysis.

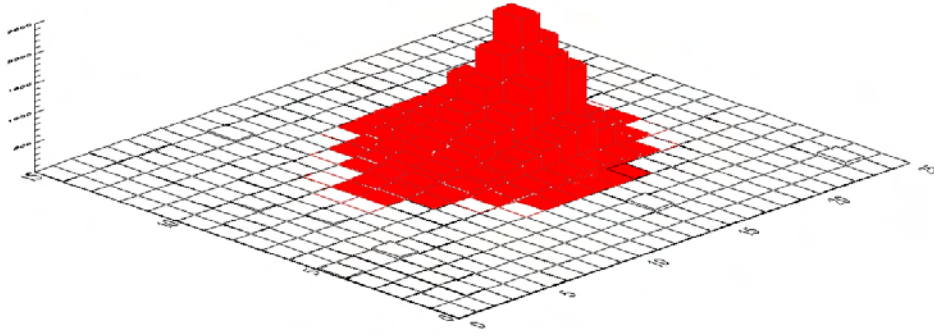


Figure 3.3: Winddescriptor image of CoID 0102973454. The readout mask is shown in red.

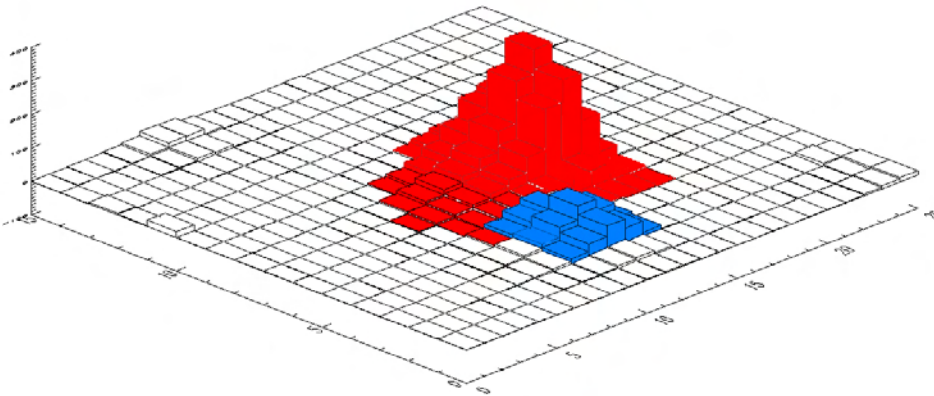


Figure 3.4: Same as Figure 3.3 but for CoID 0102782335. The contaminating star is located in front of the target is shown in blue.

3.3 Frequency combination

To distinguish between intrinsic modes and combinations of different frequencies the following approach has been employed:

$$f_{\text{comb}} = a \times f_1 \pm \Delta f + b \times f_2 \pm \Delta f \quad (3.1)$$

with $-5 \leq b \leq 5$ and $2 \leq a \leq 5$

with a and b being integer numbers. The used uncertainty in the calculation is the classical frequency resolution $\Delta f = 1/T$. It is assumed that a combination frequency has a lower amplitude than each of the two combining frequencies. This restriction is necessary as for stars with a large number of frequencies, in combination with a good frequency resolution, the number of possible combinations gets unrealistically high. In all of the following figures the color convention is applied:

- red lines: mode with $S/N \geq 4$
- green line: combination frequency
- brown line: multiple combination of one frequency
- dashed line: orbit frequency of CoRoT and its harmonics

3.4 The γ Doradus stars in the sample

A total number of 452 stars with AAO classification spectra were classified as γ Doradus stars. As no high resolution spectroscopy is available for these candidates it is not easy to differentiate between g-mode pulsation and rotation. The classification as γ Doradus is made purely on the basis of the light curve, the amplitude spectrum and fundamental parameters derived from the AAO classification spectra. If variability is due to differential surface rotation or stellar activity, it is likely that harmonics of the rotation period show up in the amplitude spectrum, which is actually the case for many of the observed stars. Therefore only stars showing more than three frequencies that are not multiples or combination frequencies are selected as candidates. This assumption might lead to some misclassification, but as the goal of this work is to show properties in a statistical way these uncertainties are known

and accepted. Among the stars classified as γ Doradus candidates there are some distinct subgroups showing similarities in their amplitude spectra. Figure 3.5 shows examples for these groups. It should be noted that the abscissa scales are different from panel to panel in Figure 3.5, 3.6, 3.7, 3.8 and 3.9.

From the top:

- First panel: Many significant frequencies under 1 c/d and three isolated peaks over 1 c/d.
- Second panel: Same as first panel but one additional significant high frequency peak close to an orbit harmonic but outside the range of $\pm$ the frequency resolution. Most probably this signal is still attributed to instrumental effects.
- Third panel: The whole range up to the theoretical fundamental radial mode frequency is filled with significant peaks with decreasing amplitudes.
- Fourth panel: A more evolved star with a lower $\log g$ showing peaks with decreasing amplitude up to 5 c/d.
- Fifth panel: Similar to the case above but with a maximum in amplitude around 1 c/d and a gap with no significant frequencies in between.
- Sixth panel: The maximum of the amplitude is further shifted to higher frequencies, only two significant peaks below 1 c/d.
- Seventh panel: The maximum of the amplitude is around 5 c/d with non combination frequencies of up to 9 c/d. If the fundamental parameters and therefore the position of the radial fundamental is accurate, this could be also a candidate for mixed modes.

Figure 3.6 shows five special cases. The first star is a high amplitude γ Doradus star whereas the second is suffering from strong non-sinusoidal variability as can clearly be seen from the light curve. The third star shows also non-sinusoidal behavior but in a much higher frequency range just below the theoretical fundamental radial pulsation mode frequency. Frequencies in this range might very well again be good candidates for mixed modes as was mentioned previous (see Figure 3.5), but

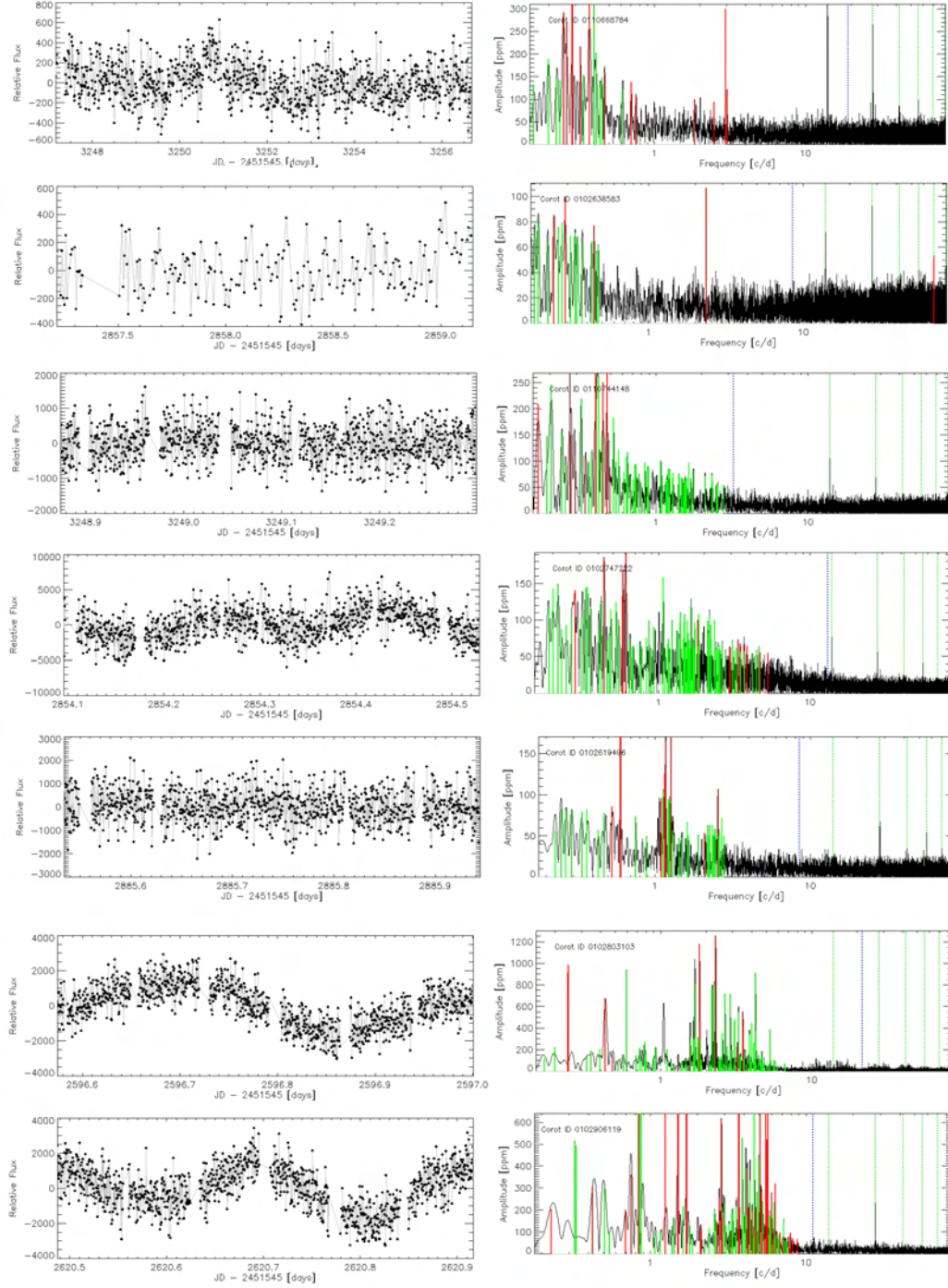


Figure 3.5: Amplitude spectra (right panels) and subsets of the light curves (left panel) of groups of γ Doradus stars from Ira1, Lra1 and Lra2. The red lines indicate frequencies with a $S/N \geq 4$, the green lines indicate frequency combinations and the brown lines multiples of frequencies. The dashed line indicate the orbit frequency of CoRoT and its harmonics.

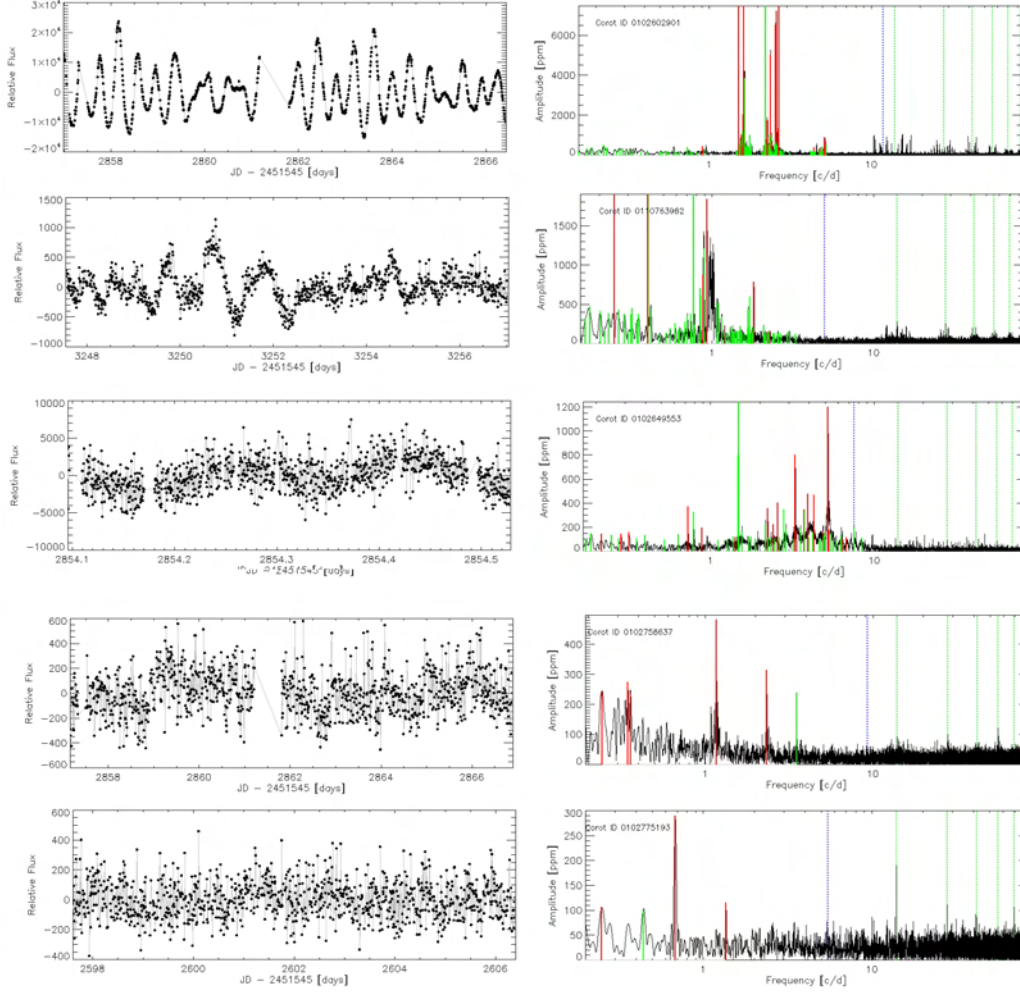


Figure 3.6: Same as Figure 3.5.

it needs extra explanation for the non-sinusoidal behavior. The fourth and the fifth star show two borderline cases as one shows four independent frequencies and the other one only three. Therefore the first star is considered a γ Doradus candidate whereas the second is classified as a possible candidate for rotational variability.

Stars that proved to be hotter than the blue border of the classical instability strip and therefore likely to be SPB candidate stars have been omitted in this theses.

Table C.1 lists the catalog of all 452 identified stars with γ Doradus pulsation from IRa1, LRa1 and LRa2. The Corot Identification (CoID), B magnitude, V magnitude, frequency of the dominant mode, amplitude of dominant mode, total

number of frequencies, number of combination frequencies, effective temperature, surface gravity and metallicity are given.

3.5 The δ Scuti stars in the sample

In many of the δ Scuti stars discovered in this work a significant low frequency, low amplitude signal component can be identified. There are basically three possible types of explanation for this effect:

- The star is a double or multiple star system, where the available spectra are not good enough for a discrimination,
- the pulsations are in fact low amplitude, high order g-modes that are barely visible above the noise, or
- it is caused by granulation signal (Kallinger 2010).

Another possibility is the presence of artifacts from the detrending procedure. In any case these modes have to be considered with the appropriate caution. For a star to be classified as a pure δ Scuti star the maximum number of non-combination frequencies in the low frequency range is three. This is an arbitrary number and purely empirically determined from working with thousands of CoRoT spectra over the last few years. These barely significant frequencies are never clustered and always just above the threshold of being significant.

As it will be pointed out in the further discussion, to include these frequencies as intrinsic would nurture the approach that all δ Scuti stars are in fact Hybrid stars. A second criterion for a star to belong to the group of δ Scuti stars is that the pulsation has to be solely in the p-mode domain above the theoretical radial fundamental mode frequency.

Figure 3.7 shows a series of typical δ Scuti star frequency spectra with increasing values for the radial fundamental mode. The frequency range of the dominating mode ranges from below 10 c/d in the first panel to almost 60 c/d in the last panel. The excited modes are in all cases relatively close to one another and only one maximum of pulsation is visible.

In contrast Figure 3.8 shows examples for δ Scuti stars with a different behaviour:

- First panel: The significant frequencies are clustered around 7c/d but the dominant mode is separated and shifted to a higher frequency.
- Second panel: An example for one of many single mode δ Scuti stars from the CoRoT sample.
- Third panel: One example for the well established group of δ Scuti stars showing two modes that are close to each other resulting in beating effects visible in the light curve.
- Fourth panel: An interesting example of a δ Scuti with one strong peak between 1 and 2 c/d. In my classification scheme this single peak is attributed to stellar rotation.
- Fifth panel: A δ Scuti star that shows a vast number of significant frequencies in the range of 3 to 50 c/d.
- Sixth panel: An example of a low amplitude δ Scuti star. The noise level is below 20ppm and the dominant frequency has an amplitude of only 100ppm.

Table D.1 lists the catalog of all 277 identified stars with δ Scuti pulsation from IRa1, LRa1 and LRa2. The Corot Identification (CoID), B magnitude, V magnitude, frequency of the dominant mode, amplitude of dominant mode, total number of frequencies, number of combination frequencies, effective temperature, surface gravity and metallicity are given.

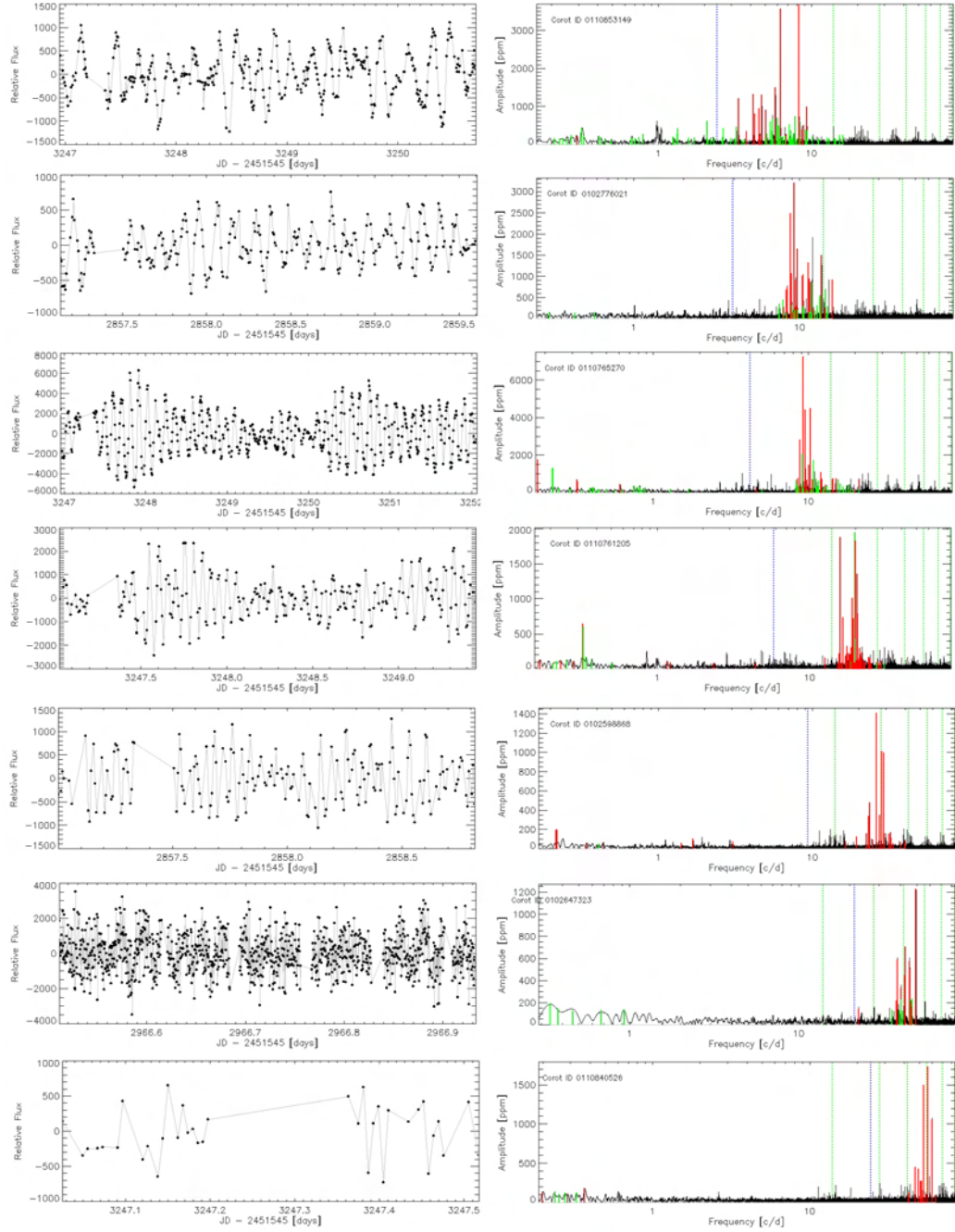


Figure 3.7: Amplitude spectra (right panels) and subsets of the light curves (left panel) of groups of δ Scuti stars from Ira1, Lra1 and Lra2. The red lines indicate frequencies with a $S/N \geq 4$, the green lines indicate frequency combinations and the brown lines multiples of frequencies. The dashed line indicate the orbit frequency of CoRoT and its harmonics.

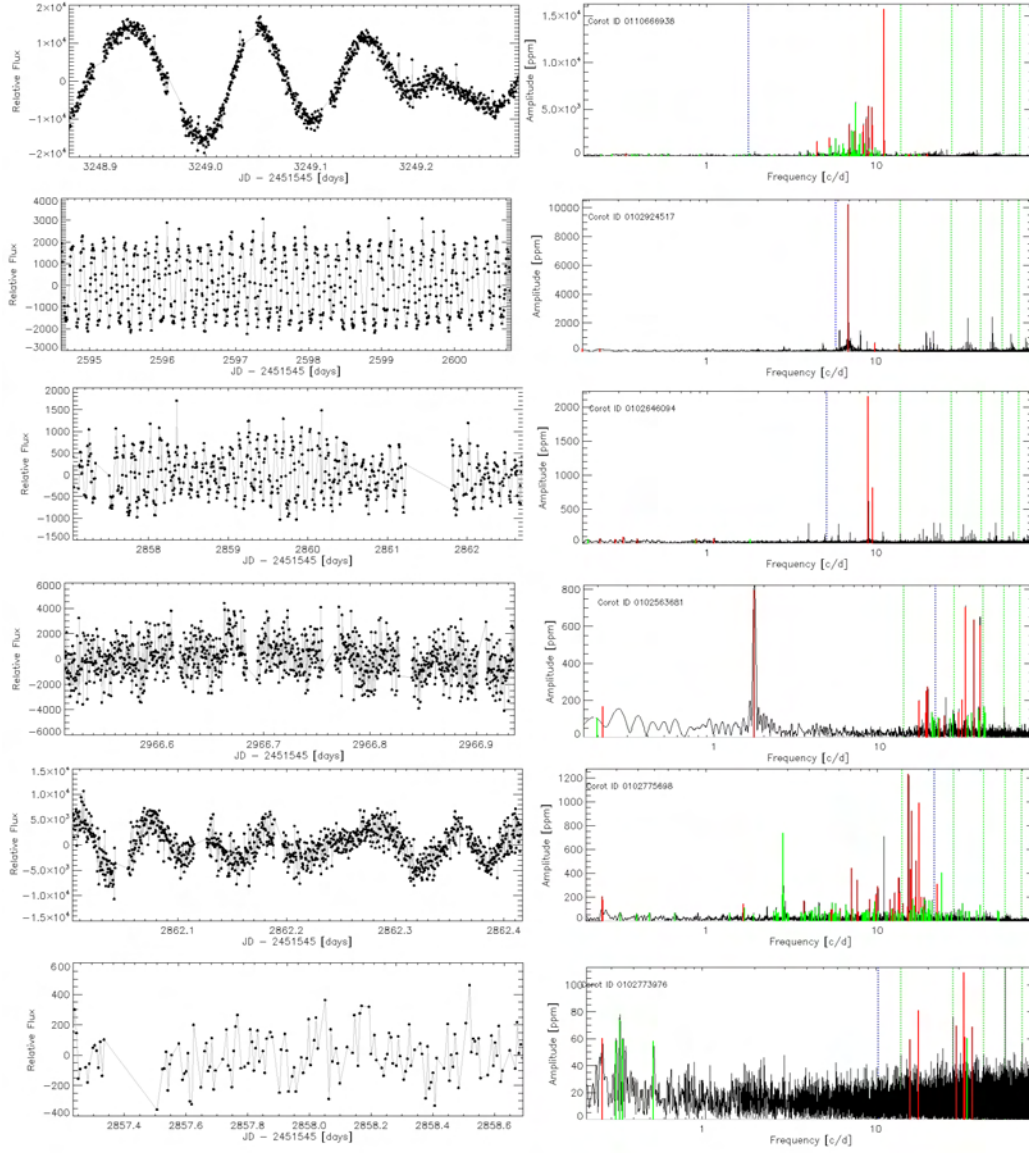


Figure 3.8: Same as Figure 3.7.

3.6 The Hybrid stars in the sample

The discussion if Hybrids stars are a separate class of pulsating stars or a mere subclass of δ Scuti stars, if observed down to the needed accuracy of noise level, is an ongoing matter. Recently Grigahcène et al. (2010) showed with KEPLER data that particularly almost all δ Scuti stars show Hybrid behaviour. In the CoRoT data however, I found a vast number of stars that show signal in the γ Doradus domain (Kaiser et al. 2009), but with the difference that these frequencies later turned out to be just combinations of very low frequencies which are introduced by observation artifacts during the reduction and desteepping procedures. Therefore I distinguish between pure δ Scuti stars and stars showing Hybrid pulsation. The definition of Hybrid stars in my work is that a star has to show clear low order p-mode and high order g-mode pulsation. This makes the separation between g and p-modes the central question in the classification.

Many authors in the past used the pulsation constant Q as an estimate for the radial fundamental mode frequency (Breger 1990, Stankov & Handler 2005, Zhang et al. 2013). If the fundamental parameters could not be estimated with the needed accuracy required for the input of a theoretical model often the empirical value of 5 c/d is adopted. This is of course not a valid assumption for all stars in different evolutionary stages or with different temperatures.

As the visual apparent magnitude of the stars observed with CoRoT is between 10 and 16 it makes the investigation of the interstellar extinction coefficient very hard. This leads to problems in deriving the bolometric correction which is needed in the calculation of the pulsation constant. Therefore, in this work the direct approach via theoretical models was chosen. As the fundamental parameters are well enough known from the AAO spectra it was possible to employ the already mentioned YREC models to estimate the positions of the fundamental radial modes. Furthermore, possible combination frequencies were calculated in order not to have p-mode combinations interpreted as g-modes. As rotation plays a major role in the g-mode domain, again only stars with more than three non-combination frequencies in the low frequency domain were selected. As δ Scuti stars can also pulsate in low order g-modes or mixed modes some misclassification is expected. In order to exclude binary systems with a δ Scuti and a γ Doradus component an autocorrelation

of all the AAO classification spectra was performed. As the resolution of the spectra is only around 1400 this approach yielded only a few false positive exclusions.

Figure 3.9 shows a few typical examples for stars classified as Hybrids:

- First panel: The g-mode and p-mode pulsation is clearly separated from each other by almost 30 c/d. Many of the low frequencies are combination frequencies.
- Second panel: A similar situation as the previous one but with a less extended gap between the g and p-modes.
- Third panel: The highest peak is very close to the predicted position of the fundamental radial mode. The range of 1 c/d up to 8 c/d is filled with significant no-combination frequencies making it hard to separate clearly the g and p-mode domains.
- Fourth panel: The position of the fundamental radial mode suggests a Hybrid star with a single mode in the δ Scuti frequency range and a clear pattern of g-modes.
- Fifth panel: Extremely rare case of a Hybrid showing only one single combination frequency.

Table E.1 lists the catalog of all 274 identified stars with Hybrid pulsation from IRa1, LRa1 and LRa2. The Corot Identification (CoID), B magnitude, V magnitude, frequency of the dominant mode, amplitude of dominant mode, total number of frequencies, number of combination frequencies, effective temperature, surface gravity and metallicity are given.

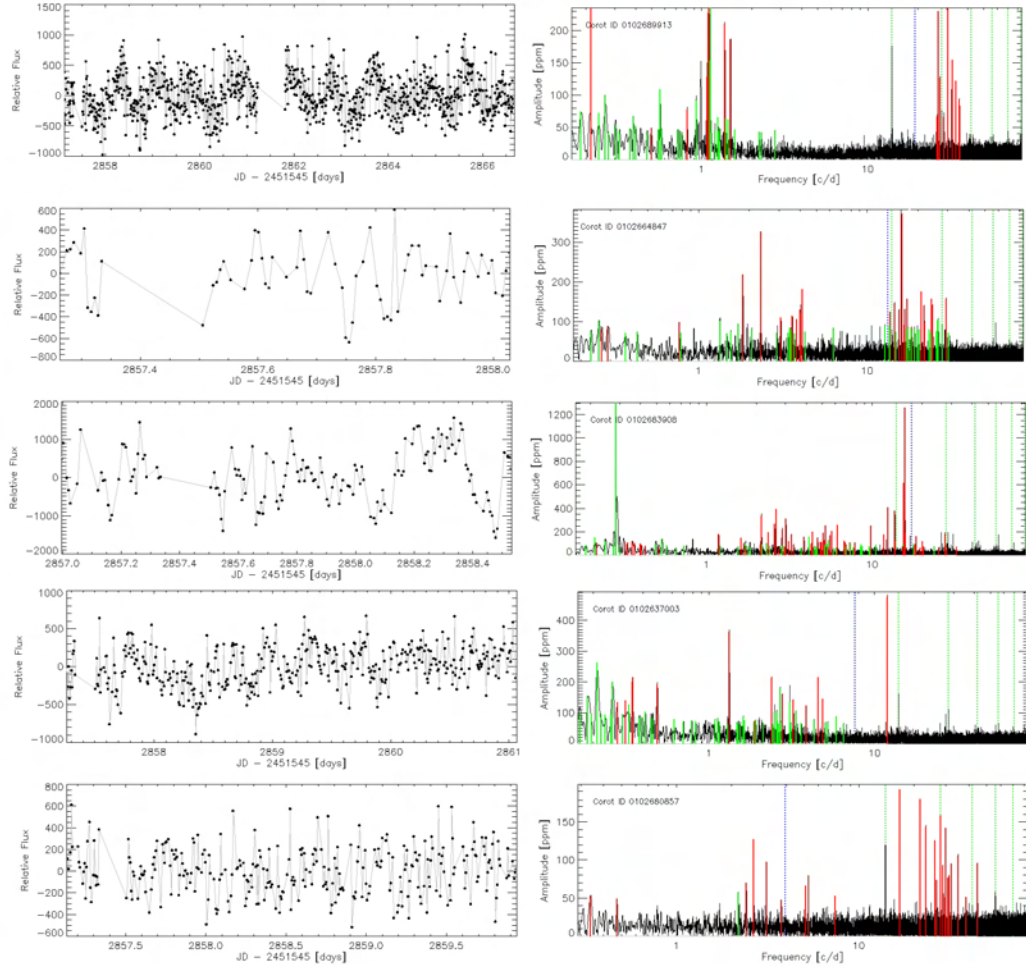


Figure 3.9: Amplitude spectra (right panels) and subsets of the light curves (left panel) of groups of Hybrid stars from Ira1, Lra1 and Lra2. The red lines indicate frequencies with a $S/N \geq 4$, the green lines indicate frequency combinations and the brown lines multiples of frequencies.

Chapter 4

Determination of fundamental parameters from spectroscopy

The absorption lines in stellar spectra show differences in strength and shape according to the physical characteristics in the stars' atmospheres. The interaction of the line absorption and parameters like temperature, pressure, radiation or magnetic and velocity fields is one of the most studied problems in stellar astrophysics. Up to date no full interlink theory of these processes is present whereas the general spectral line behavior can be understood and explained in relatively simple terms. The understanding of this spectral line behavior can be used to derive the fundamental properties of a star, like radius, effective temperature, surface gravity, and chemical composition from observed spectra.

4.1 Motivation for an automated routine

Missions like CoRoT or Kepler produce photometry of a large number of relatively faint stars for which frequently not much more is known than a crude spectral type. The stellar fundamental parameters T_{eff} , $\log g$, $v \sin i$ and metallicity need to be known as accurately as possible for any astrophysical study such as asteroseismology or the investigation of binaries, only to name a few examples. The direct way would be to obtain medium to high resolution spectra and perform a standard spectroscopic analysis. This procedure, however, is time consuming and

to conduct the observations and analysis for several thousands of stars, in particular, if these stars are rather faint, is practically impossible in the time frame of a PhD thesis. In the past, many attempts have been considered with the goal to determine the mentioned parameters in an automatic or semiautomatic way suited for survey type research. Since the 90s many programs were developed, based on a variety of different methods like orthogonal vector projection (Cayrel et al. 1991), minimum distance methods like TGMET (Soubiran 2003), feature fitting software such as Abbo (Bonifacio et al. 2003), projection vector software such as MATISSE (Recio-Blanco et al. 2006), principal component analysis software like MAX (Jofre et al. 2010), forward modeling algorithm as ILIUM (Bailer-Jones et al. 2010) and line by line modeling software like the widely used (and open available) VWA (Bruntt et al. 2002) or newer ones as SPADES (Posbic et al. 2012).

VWA for example allows the user to estimate T_{eff} and $\log g$ for slowly rotating stars and to constrain abundances from an observed spectrum by fitting multiple lines and iteratively changing the abundance to match the equivalent width (EW) by applying a simple χ^2 technique. Via a GUI the fitted lines are inspected and problems with the continuum level or asymmetries in the lines can be identified. On a state of the art computer, it takes about one hour to fit 250 lines for a star.

The advantage of this semi-automatic procedure is that it allows to process a fair amount of stars in a reasonable time but continuous visual inspection and high resolution spectra (~ 50000) are needed. In a recent review paper Fossati et al. (2011) tested the reliability of VWA and found a tendency to systematically overestimate the effective temperature.

We choose a Bayesian technique for the fitting process because it gives us the advantage of comparability between fits from different grids and, via the confidence interval an estimation of the error of the fit (Kallinger et al. 2010).

The following sections will describe the design of this fully automated and homogenous approach for determining stellar parameters from low resolution stellar spectra using a Bayesian approach. First the grid of used synthetic spectra will be introduced, then the applied Bayesian based fitting procedure will be described and last the sensitivity of our method to the noise level and continuum normalisation will be presented. Furthermore the internal and external errors of the procedure will be discussed and an estimate will be given showing the reliability and the limitations

of the method.

4.2 The grid of synthetic spectra

A grid of model atmospheres with a microturbulence velocity of 2 km s^{-1} was computed using an updated version of LLmodels (Shulyak et al. 2004) with a line list from the Vienna Atomic Line Database (VALD) for atomic parameters (Piskunov et al. 1995, Ryabchikova et al. 1999 and Kupka et al. 1999). The models were calculated with the overshooting option switched off and Canuto & Mazzitelli (Canuto et al. 1991) treatment of convection. The convergence of each model was then checked carefully.

The grid of synthetic spectra was computed using the SynthV (Tsymbal et al. 1996) software package. The grid presently contains 17664 spectra and covers the spectral domain from 3800 to 7000 Å, hence basically the optical region, with a sampling of 0.05 Å.

The grid covers effective temperatures from 5000 K to 11000 K with 200 K steps and from 11000 K to 20000 K in 500 K steps and surface gravity from 2 dex to 5 dex in 0.2 dex steps. The metallicity is sampled at -2.0, -1.5, -1.2 and from -1.2 to +1.0 in 0.1 dex steps. The convergence of each synthetic spectrum was checked. The instrumental resolution is not fixed and can be adopted to different spectrographs. Table 4.1 summarizes the properties of the grid.

Table 4.1: Atmospheric parameters of the reference grid used in the fitting process.

	T_{eff} [K]	$\log g$ [dex]	M/H [dex]
min	5000	2.0	-2.0
max	20000	5.0	+1.0
step size	200 or 500	0.2	0.3 or 0.1

4.3 The fitting algorithm

The fundamental parameters of the stars are determined by minimizing the difference between the observed and synthetic spectrum line feature most sensitive to the desired parameter. The determination of the most suitable spectral range and line feature for different stellar temperatures will be discussed in the next section. To assess the quality of the fitting procedure a Bayesian technique similar to the one used in Kallinger et al. (2009) is employed: From an assumed Gaussian distribution of the observational uncertainties it follows that the likelihood a synthetic spectrum I_m matches an observed spectrum I_o with an uncertainty σ_o , is:

$$p(I_m) = \frac{1}{\sigma_o \sqrt{2\pi}} \exp\left(-\frac{(I_m - I_o)^2}{2\sigma_o^2}\right) \quad (4.1)$$

An overall probability of a synthetic model spectrum matching the observation with respect to the entire set of models can be assigned according to Bayes' theorem as

$$p(M|D, I) = \frac{p(M|I) \cdot p(D|M, I)}{P(D, I)} \quad (4.2)$$

where

$$p(M, I) = \frac{N_0}{N_{tot}} \quad \text{and} \quad p(D|M, I) = \prod_{i=1}^N p(I_{m,i}) \quad (4.3)$$

are the uniform prior probabilities for a specific model spectrum and the likelihood function, respectively. As no data points are rejected in the wing profiles, $p(M, I)$ is equal to one.

The likelihood function is the logical 'and' probability of the individual probabilities of the best fitting model which in fact means that $p(D|M, I)$ is the probability that the data points $p(I_m, 1) \wedge p(I_m, 2) \wedge \dots \wedge p(I_m, N_0)$ fit the corresponding observations. The overall model probability is a sensitive indicator, because it only gives a high probability if almost all data points in the observations can be matched well. The denominator of equation 4.2 is a normalization factor for the specific synthetic model spectrum probability in the form of

$$p(D|I) = \sum_{i=1}^{N_m} p(M_i) \cdot p(D|M_i, I). \quad (4.4)$$

As all the uniform priors are the same for all models they cancel out in equation 4.2, which then simplifies to

$$P = p(M_i|D, I) = \frac{p(D|m_i, I)}{\sum_{j=1}^{N_m} p(D|m_j, I)}. \quad (4.5)$$

As mentioned, the resulting model probability distribution shows regions of highest probability for the best fitting solution and very low probability for all others.

4.3.1 Estimation of the signal to noise ratio

One crucial aspect of the Bayesian analysis is a good estimation of the signal to noise rate (S/N) of the measured spectrum. However, in order to estimate the S/N a variety of different assumptions about the spectrum and the used spectrograph are necessary. To overcome this, different approaches have been made over the years. The one used in this analysis is incorporated in the IDL routine *"derSNR.pro"* (Stoehr 2007) and defines the signal at continuum level via the median intensity. It first removes the effects of bad pixels in the spectra that would have extremely large flux values or background features. The statistical noise level of a spectrum can be estimated in a numerical way under the assumption that the noise of two nearby flux values, e.g. separated by a given number of pixels, is uncorrelated. It is assumed that the signal is similar in nearby pixels and that the noise is approximately Gaussian distributed. CCD detector crosstalk or several of the various reduction steps, for example combining several exposures into one, can introduce noise correlations at the level of neighbouring pixels. For a Gaussian-distributed variable x , the median absolute difference (MAD) of values of the distribution and the median can be converted into the standard deviation of the Gaussian (i.e., the desired noise measurement) via

$$\begin{aligned}
m &= \text{median}(x(i)) \\
\sigma &= 1.482602 \cdot \text{median}(|m - x(i)|)
\end{aligned} \tag{4.6}$$

where the median calculations are done over all i pixels. The factor of 1.482602 that converts the MAD to a standard deviation can be derived by integrating over a Gaussian probability distribution. The median value of the flux is not fixed within the spectrum but is a local quantity and is therefore not easy to determine. This problem can be circumvented by going to higher orders of the median absolute difference:

$$\begin{aligned}
2^{\text{nd}} \text{ order} : \sigma &= f_2 \cdot \text{median}(|x(i) - x(i+2)|) \\
3^{\text{rd}} \text{ order} : \sigma &= f_3 \cdot \text{median}(|-x(i-2) + 2x(i) - x(i+2)|) \\
4^{\text{th}} \text{ order} : \sigma &= f_4 \cdot \text{median}(|-x(i-2) + 3x(i+2) - 3x(i+4) + x(i+6)|)
\end{aligned} \tag{4.7}$$

The median calculations are done over all i pixels. The f -factors are introduced via the error propagation and compensates for the fact that the Poisson noise for higher orders decreases just because more pixels are taken into account for one measurement.

$$f_n = 1.482602 \frac{1}{\sqrt{\sum_{k=0}^{n-1} \binom{k}{n}^2}} \tag{4.8}$$

As a compromise between simplicity and accuracy the procedure uses the third order MAD for the noise estimation.

To test the reliability of the algorithm we added noise to synthetic spectra with solar metallicity in the temperature range from 5000 to 11000K (200K steps) and for $\log g$ from 2.2 to 4.8dex (0.2dex steps) and calculated the S/N using the above described procedure. Figure 4.1 shows that the estimation is in good agreement for up to a S/N of 50, but with decreasing noise the S/N gets systematically underestimated as more and more line features are wrongly interpreted as noise. This effect is strongest for stars with low effective temperatures, with a large number of lines

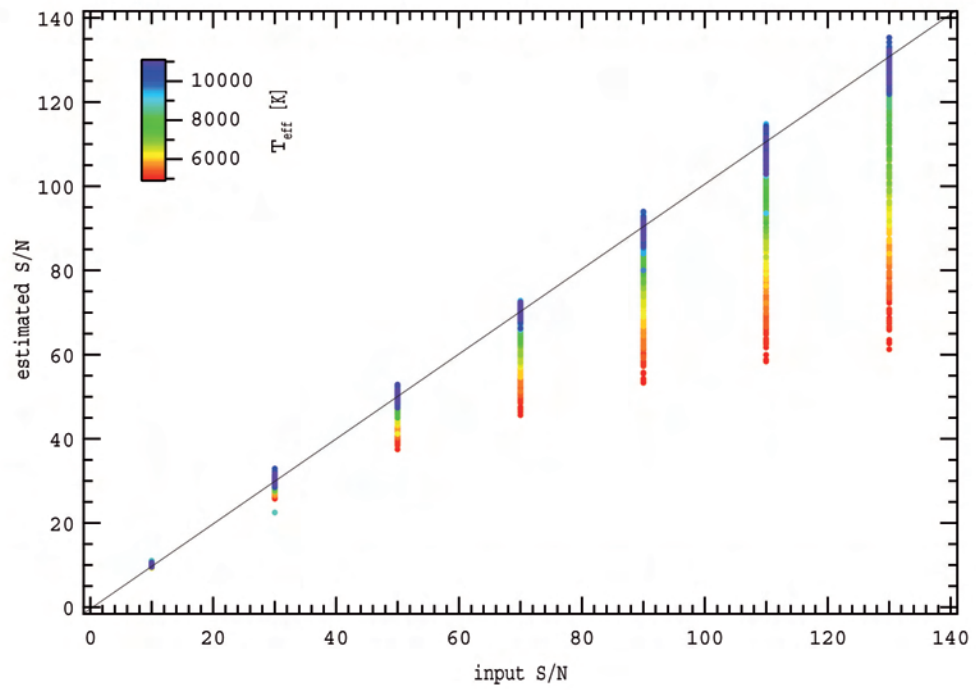


Figure 4.1: Estimation of the S/N ratio of synthetic spectra with added noise for MS stars with different temperatures and solar metallicity.

and decreases with rising temperature.

In order to compensate this effect, the deviation in S/N for every T_{eff} and metallicity step was fitted with a low degree polynomial which was then used to correct the S/N estimate of the algorithm.

4.4 Determination of the most suitable spectral range

Expert spectroscopists with a life long experience know from practice which regions in a spectrum are best suited in a given case for the determination of T_{eff} , $\log g$, and metallicity. We tried to explore the parameter space independently using our grid of synthetic spectra.

The ratio of synthetic spectra of adjacent grid points in temperature, surface gravity and metallicity was computed for each spectrum bin and divided by the step width in the respective parameter (i.e. normalised to a step width of 1 K, 1 $\log g$, and 1 M/H). The following figures illustrate the sensitivity of the various wavelength bins of the synthetic spectra to changes of the three mentioned parameters.

In Figure 4.2 and 4.3 a synthetic spectrum with a $\log g$ of 4.4 and 2.6 with solar metallicity is shown in the wavelength range from 3800Å up to 7000Å. It can be seen that the temperature sensitivity to the hydrogen lines is most pronounced for a $\log(T_{\text{eff}})$ of 3.8 to 3.9 and that the effect gets less with lower surface gravity. For cool temperatures the region below 4000Å is well suited as more and more lines appear, the lower T_{eff} gets.

Figures 4.4 to 4.12 illustrate the color coded spectral sensitivity for synthetic spectra with effective temperatures of 5400K, 6000K, 6400K, 7000K, 7400K, 8000K and 9000K and solar metallicity. The region from H η to H α is included as well as the well known Mg I triplet, the Ca H and K lines and the Na I D line.

The H α line shows almost no sensitivity to surface gravity, whereas the hydrogen lines further in the blue are more sensible to changes in $\log g$ (4.4). The Mg lines at around 5280Å and the Mg line at 3838Å are strongly depending on $\log g$ (Figure 4.5). Furthermore the strong gravity dependence of the Ca K line at 3933Å and the Ca I line at 4212Å is clearly visible (Figure 4.5). For higher T_{eff} values these lines lose their sensitivity to $\log g$ whereas the sensitivity of the hydrogen line wings to changes with gravity becomes more and more pronounced (Figures 4.6 to

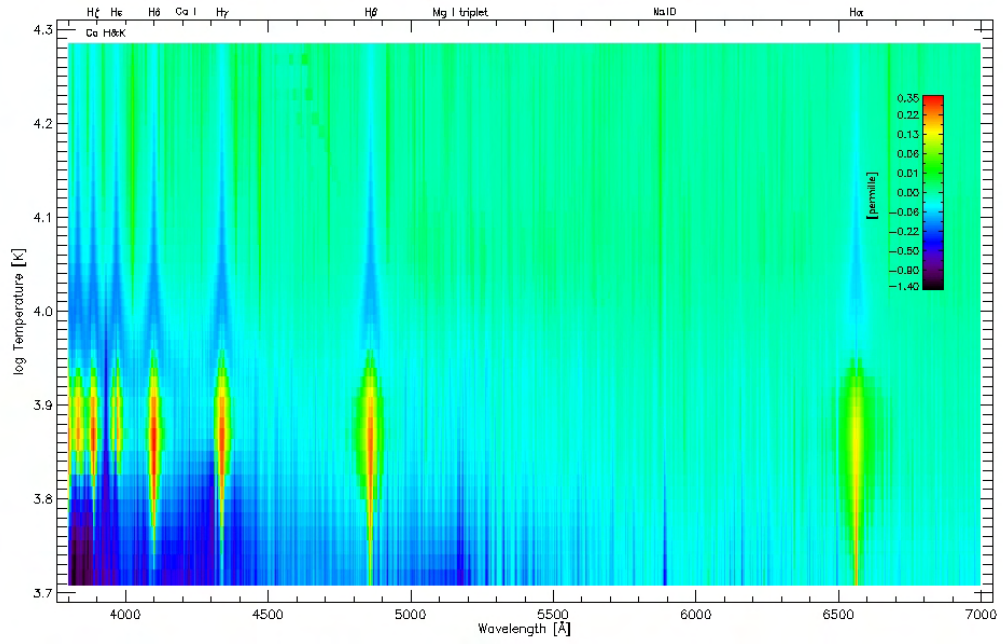


Figure 4.2: Color coded spectral sensitivity of synthetic stellar spectrum with a $\log g$ of 4.4 and solar metallicity. Shown is the region from $H\gamma$ to $H\alpha$.

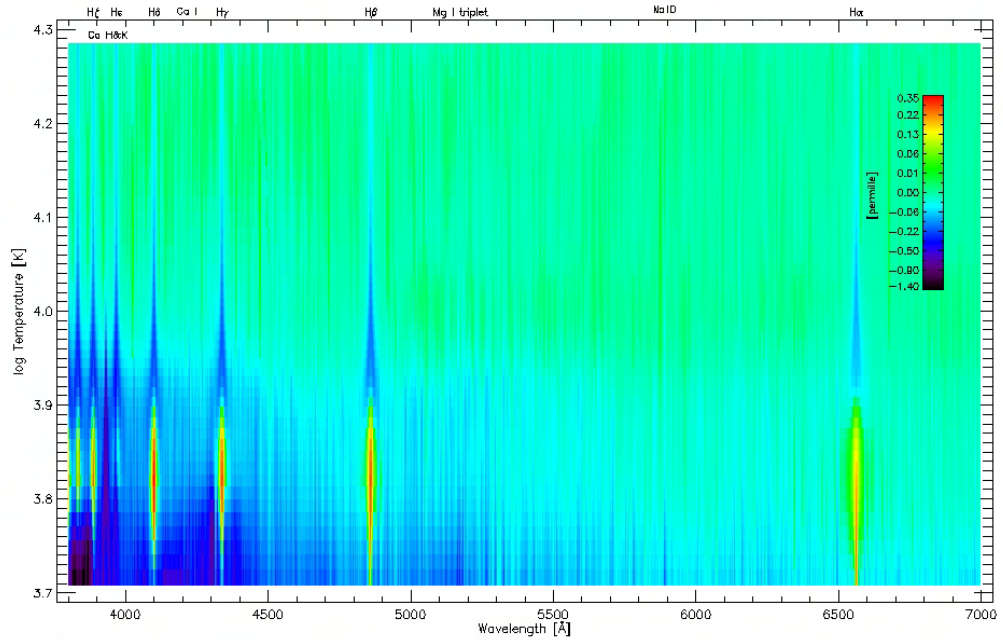


Figure 4.3: Same as Figure 4.2 but for a star with an $\log g$ of 2.6.

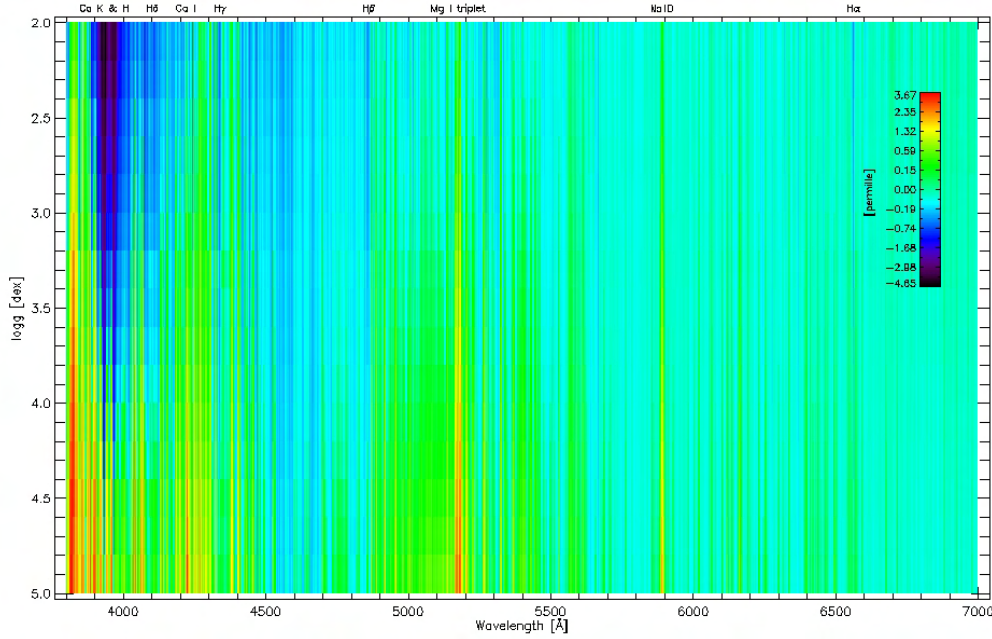


Figure 4.4: Color coded spectral sensitivity of synthetic spectra with an effective temperature of 5400K and solar metallicity. Shown is the region from $H\eta$ to $H\alpha$ (3800 - 7000Å), including the the well known Mg I triplet, the Ca H and K lines and the the Na I D line.

4.12).

In Figures 4.13 to 4.15 the color coded spectral sensitivity of synthetic spectra with an effective temperature of 6000K, 6400K, 7000K and a $\log g$ of 4.4 in relation to the metallicity is shown. The strongest sensitivity to the metallicity can be seen in the blue wavelength range below 4000Å. The effect gets stronger for cooler temperatures and less strong towards longer wavelengths. With rising temperature the lines get less pronounced therefore making it more and more difficult to assess M/H.

It can therefore be concluded that for the whole temperature range of our grid the wings and cores of the Balmer lines are very sensitive to changes in the effective temperature and surface gravity (compare van Veer-Menneret 1996, Fuhrmann 2008, Cayrel et al. 2011). During the course of the normalization procedure in low resolution spectra the wings of the Balmer lines are very difficult to normalize properly. Therefore other sensitive lines like the Mg triplet, and the Ca K line are also em-

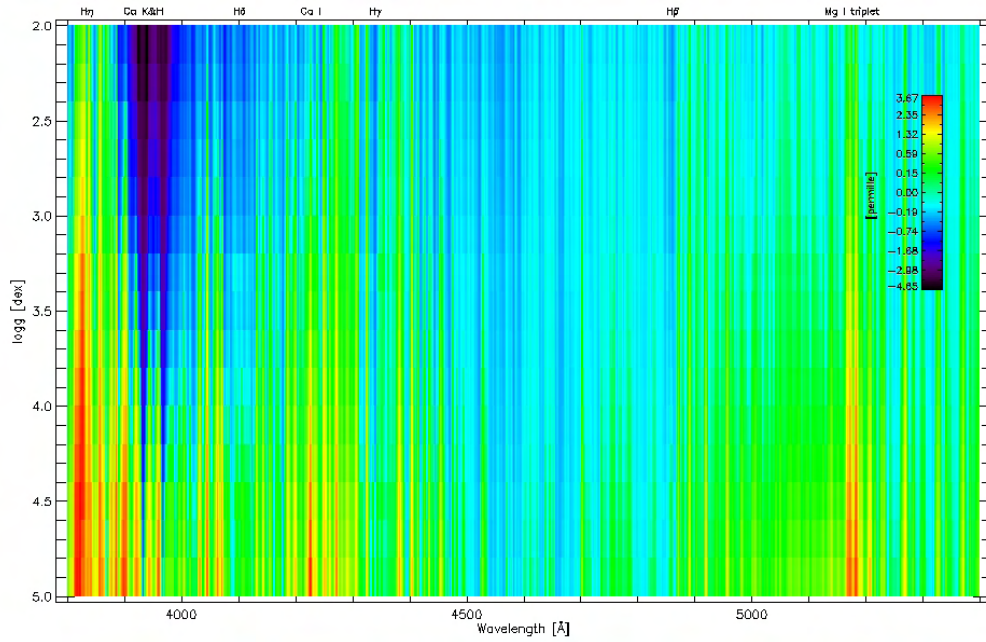


Figure 4.5: Same as Figure 4.4 but only for a wavelength range of 3800 to 5400 Å, including the Ca I line at 4227 Å.

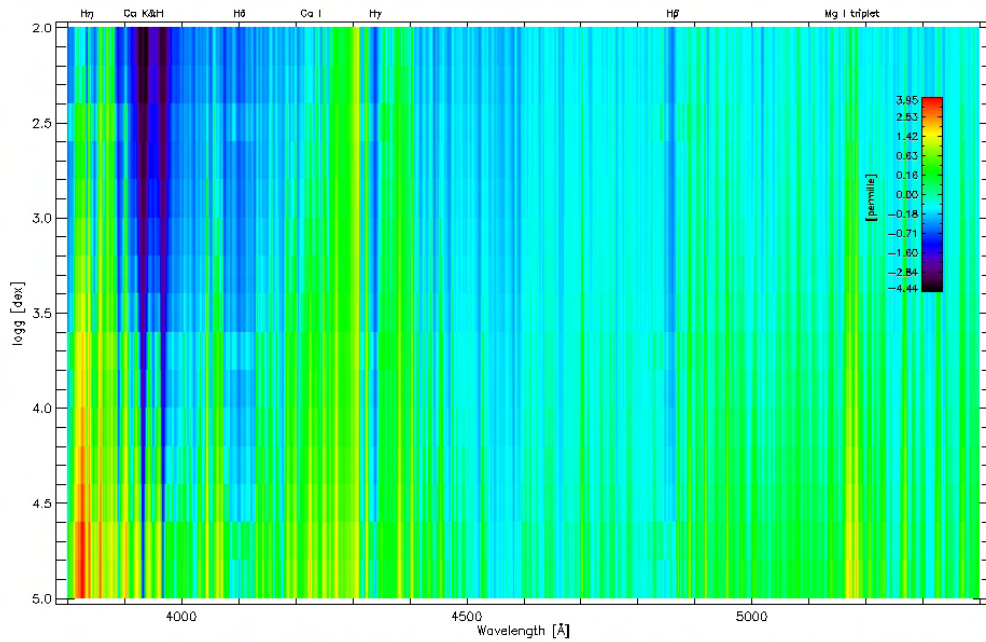


Figure 4.6: Same as Figure 4.5 but for an effective temperature of 6000K.

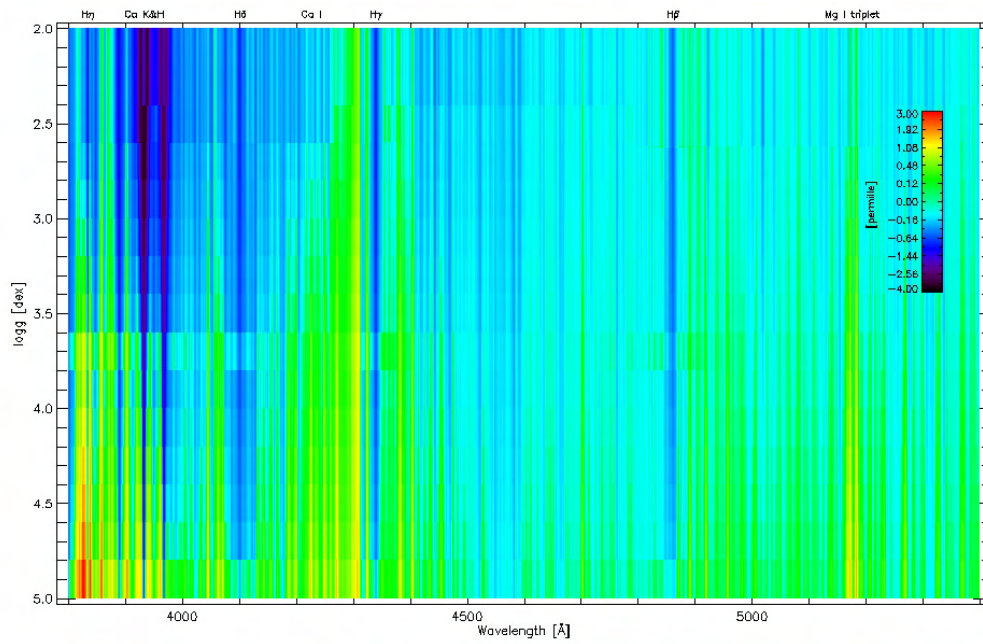


Figure 4.7: Same as Figure 4.6 but for an effective temperature of 6400K.

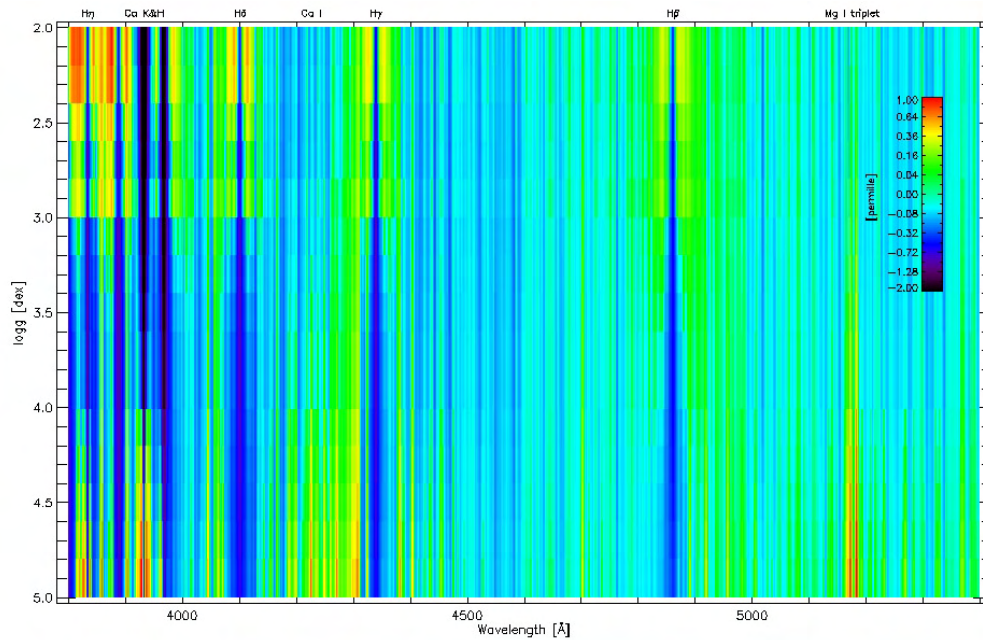


Figure 4.8: Same as Figure 4.7 but for an effective temperature of 7000K.

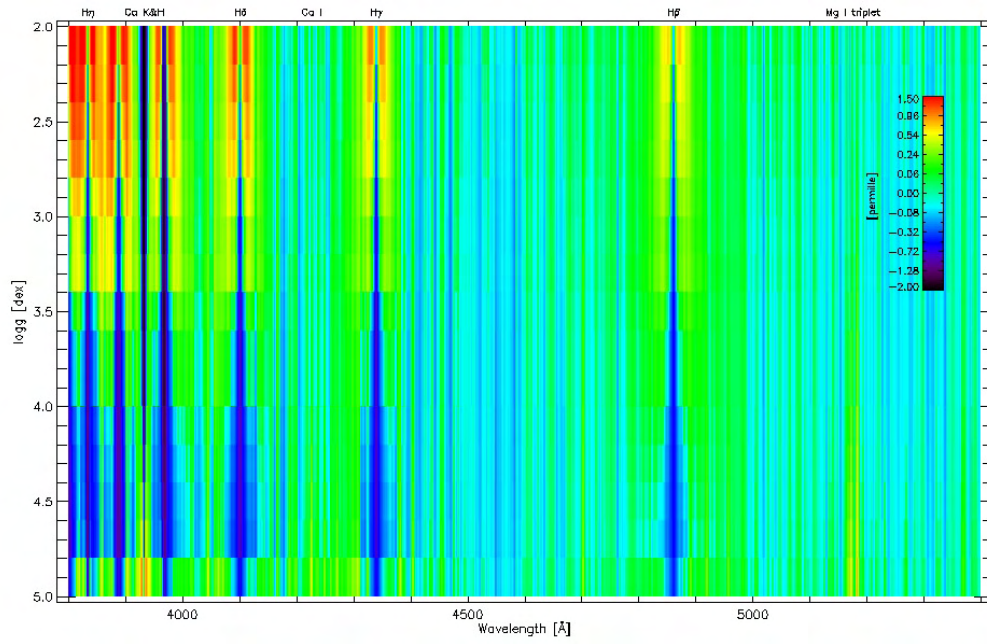


Figure 4.9: Same as Figure 4.8 but for an effective temperature of 7400K.

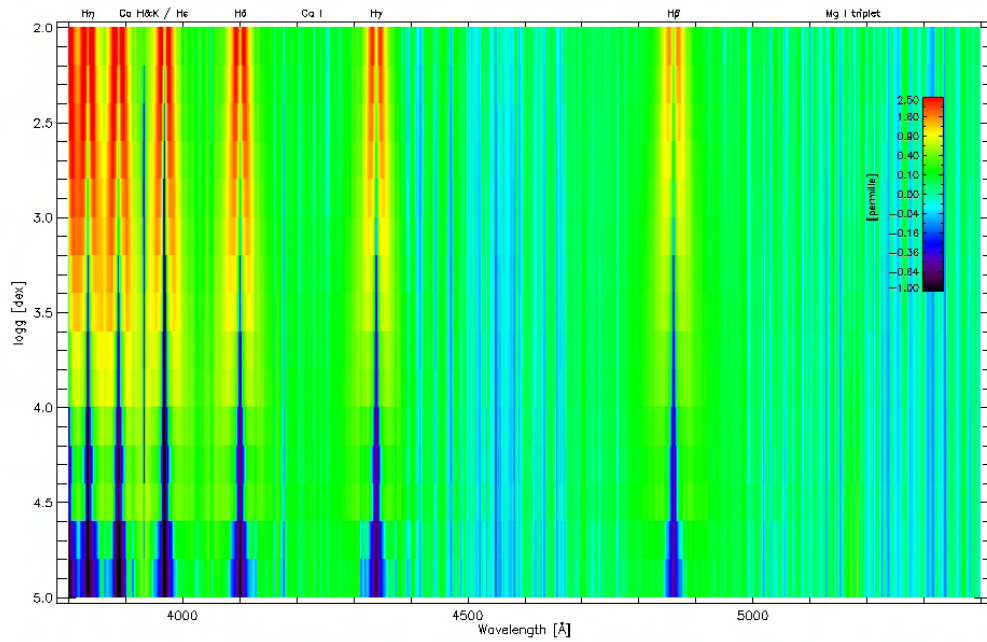


Figure 4.10: Same as Figure 4.9 but for an effective temperature of 8000K.

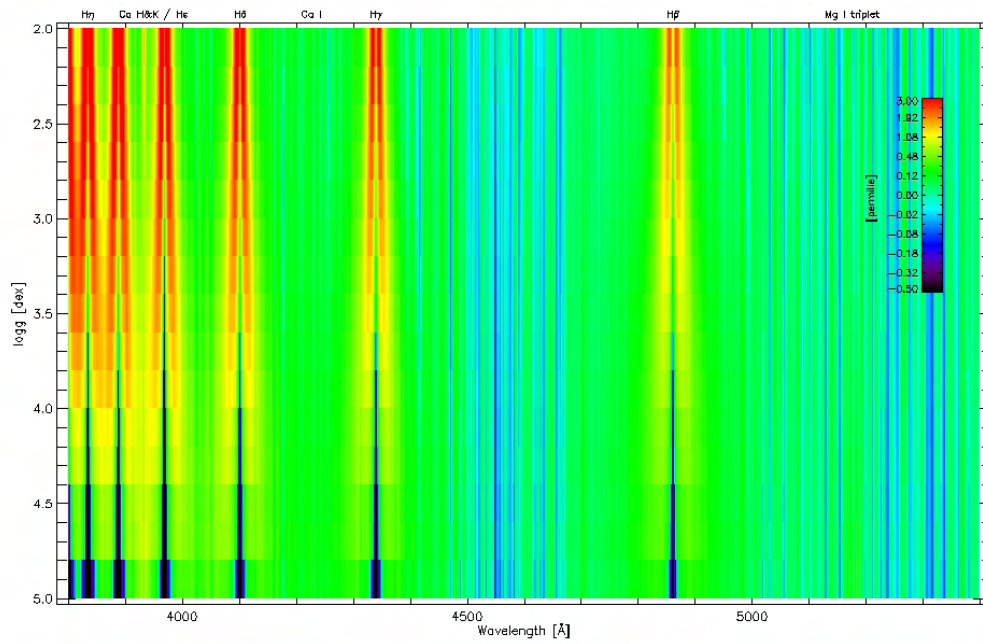


Figure 4.11: Same as Figure 4.10 but for an effective temperature of 8400K.

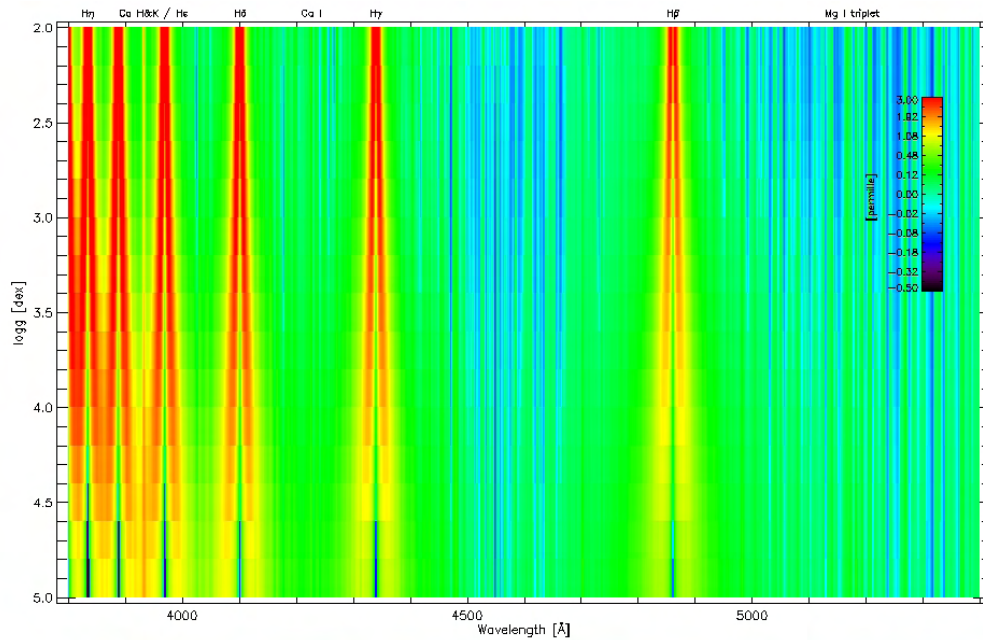


Figure 4.12: Same as Figure 4.11 but for an effective temperature of 9000K.

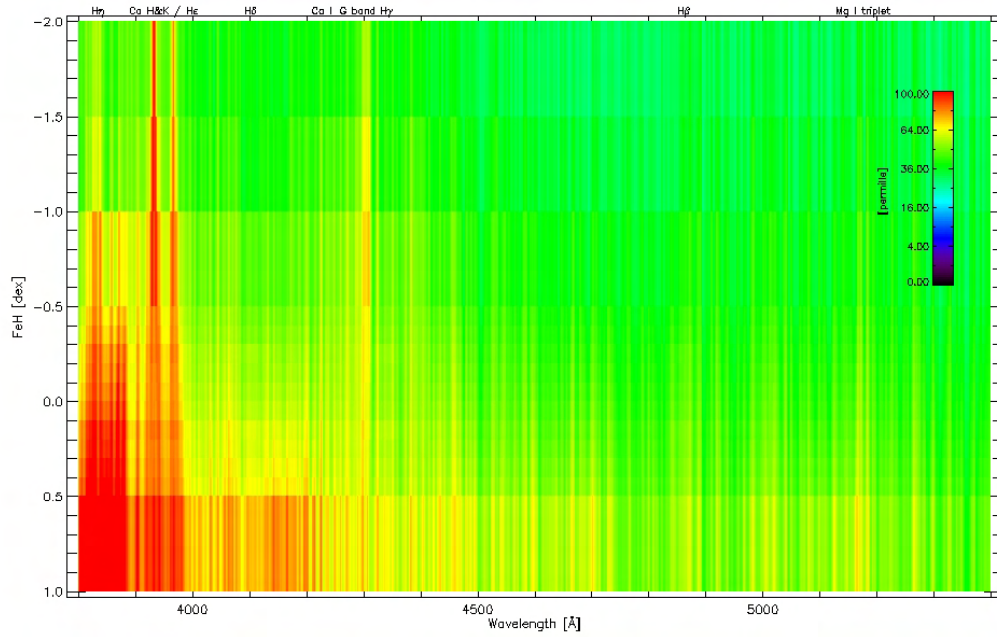


Figure 4.13: Color coded spectral sensitivity for an effective temperature of 6000K and surface $\log g$ of 4.4. shown is the wavelength region (3800Å to 5500Å) ranging from H γ , including the the well known Mg I triplet, the Ca H and K lines, the G band feature and the the So I D line.

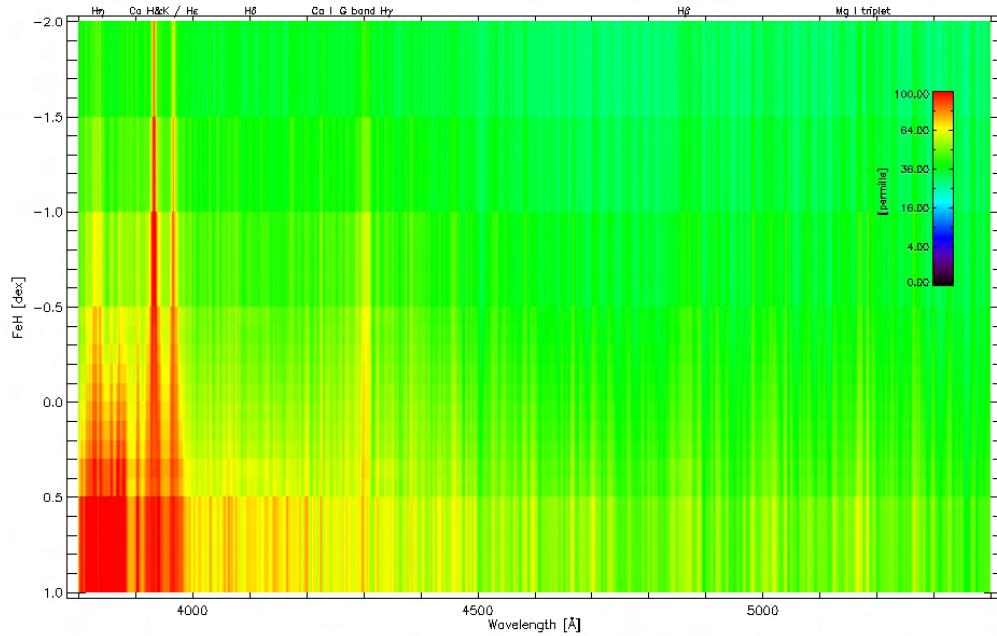


Figure 4.14: Same as Figure 4.13 but for an effective temperature of 6400K.

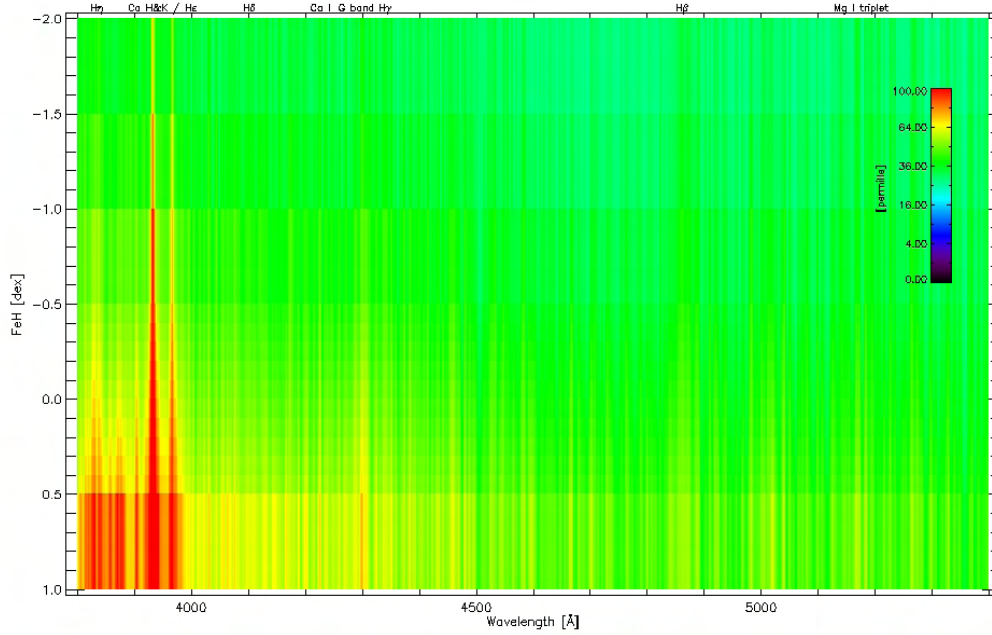


Figure 4.15: Same as 4.13 but for a star with an effective temperature of 7000K.

ployed to get a better estimate of the surface gravity. For the metallicity estimation the wavelength range above 4600Å was chosen as it is a compromise between heavy blending for cooler stars and not enough strong lines for hotter stars.

One easy method to get a starting value for the effective temperature is to compare the ratios of the line depth of the Ca K line with H γ and the G-band feature with the H δ line. Figure 4.16 shows the respective results for a sample of 2417 stars with AAO spectra. The color coding corresponds to the temperatures derived from fitting the H β line profile. For comparison the corresponding ratios derived from the synthetic spectra are plotted as squares and triangles for different T_{eff} and $\log g$ values. As the cores of the hydrogen lines cannot be modeled with a high enough accuracy a slight offset is present. Unfortunately the effect of $\log g$ in the ratios is much smaller than the observed scatter in the data. The results from this method are used as starting values and to constrain the feasible temperature range for a star when the automated fitting routine can not distinguish between a cool star with many spectral lines and a hot star with a much noise.

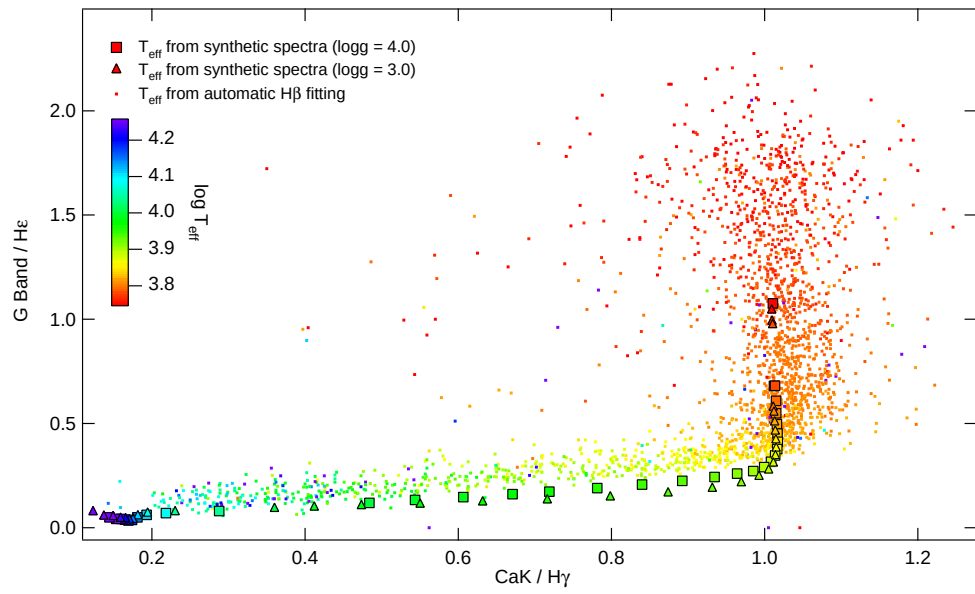


Figure 4.16: Comparison of T_{eff} obtained from fitting the H β line (color coded) and from comparison of the depth ratios of the CaK line with H γ and the G-band feature with the H δ line. Squares and triangles show the depth ratios of the synthetic models.

4.5 Spectrum reduction

The approach to rely on modelling of synthetic spectra and line profile fitting is twofold. The downside of this method is the need for a very large library of synthetic spectra and the associated reading and processing time on the computer which is quite extensive. On the other hand there are two advantages of fitting line profiles versus the line by line analysis. First, as we are dealing with very low resolution spectra the problem with line blends can be avoided as we compare our observation with a modelled profile. Second, it is possible, as is shown in the previous paragraph, to derive temperature and surface gravity directly from well selected lines such as the Balmer lines or certain Mg or Ca lines.

Another crucial aspect of the whole procedure is the determination of the continuum or pseudo-continuum which is especially problematic and challenging in cool or in metal-rich stars. Figure 4.17 shows the pseudo-continuum for a synthetic spectrum with 7400K, $\log g$ 4.4 and a $[M/H]$ of -2.0 (solid blue line) and a $[M/H]$ of +0.5dex (solid red line). The black line shows the ratio between the two spectra smoothed with a box car of 25Å.

Each step in the processing includes pseudo-continuum normalization, radial velocity correction, the correction of cosmics and other sorts of bad pixel information, excluding the telluric lines, convolving the synthetic spectrum to the resolving power of the spectrograph, wavelength re-calibration, offset correction and dealing with exposure related edge effects in the spectrum.

4.5.1 Pseudo-Continuum normalization

The first step of the analysis is the pseudo-continuum normalization and the radial velocity correction. Figure 4.18 shows the wavelength calibrated raw AAO spectrum of the star CorotID 102764809, which is the host star of the exo-planet Corot Exo-5b along with the first pre-normalization using a low level polynomial. Only points above the blue line (box smooth) have been used for normalization in order to exclude strong lines. The S/N of the spectrum is also estimated in this first step. To minimize the confusion by strong lines the S/N is estimated on the last 200Å of the spectrum. In the case of Corot Exo-5b the S/N is 73.

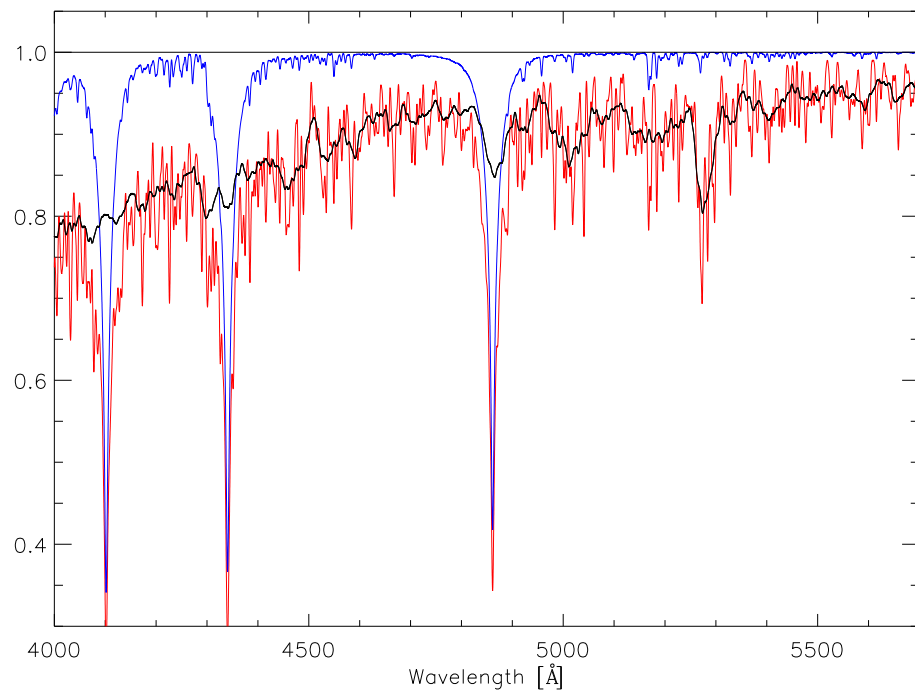


Figure 4.17: Flux ratio smoothed over 25Å (black line) between two synthetic spectra of 7400K and $\log g$ 4.0 with different $[M/H]$ of -2.0 (red line) and +0.5 (blue line).

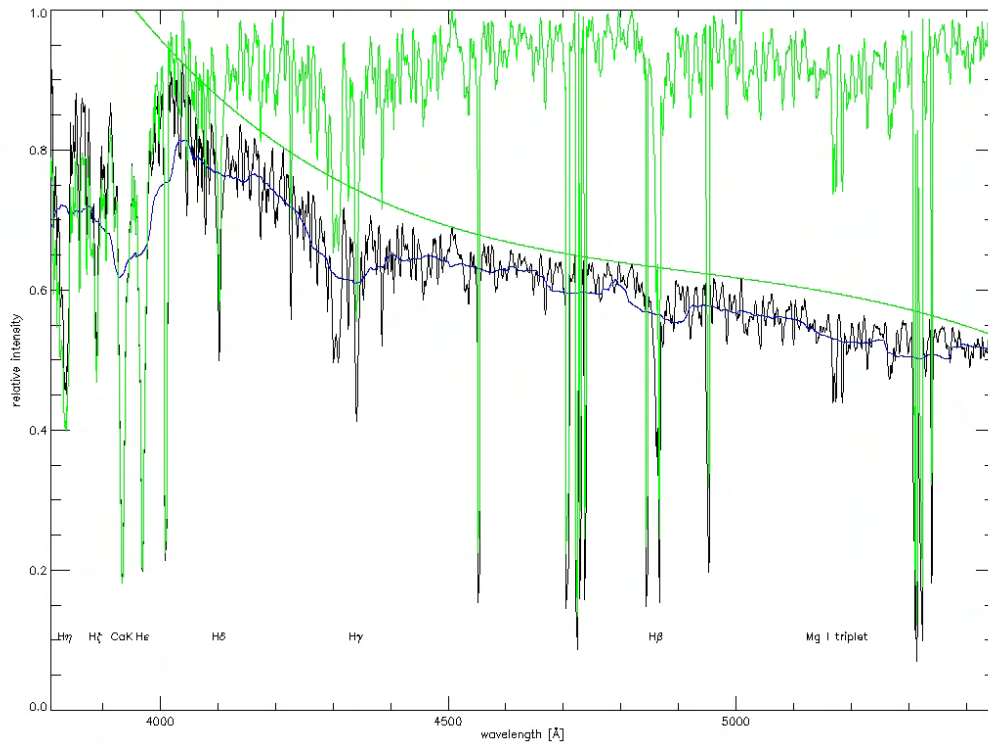


Figure 4.18: Wavelength calibrated raw spectrum of the star CorotID 102764809 (black line). The blue line shows a smooth of the spectrum that was used to select points for the spectrum normalization (green line). The resulting normalized spectrum is shown in green.

The second step of the normalization is the iterative re-normalization of the observed spectra to all synthetic spectra from the grid for solar metallicity ($M/H=0$).

Figure 4.19 shows a zoom of the region around $H\epsilon$. The solid red line shows the best fitting synthetic spectrum (T_{eff} , $\log g$, $[M/H]$ and $v \sin i$) from the previous iteration. In the case of the first iterative step the starting values are the mean temperature from the CaK and G-band fitting and a $\log g$ of 4.2, solar metallicity and a $v \sin i$ of 0 km/s. The blue dotted line shows the pre-normalized spectrum, the green line is a box-smooth of 100Å. The solid blue line includes all points of the spectrum which deviate by less than $\pm 1\sigma$ from the green smoothed line and which should include most of the pseudo-continuum points (therefore excluding strong lines). The dashed magenta line is the ratio of the pseudo-continuum points of the observation and the corresponding synthesis points and thus a measure of the deviation of the two continua. This deviation is then fitted with a low degree polynomial (second to seventh order) over the whole spectrum. The solid magenta line shows the best fit (in this case fourth order) to the smoothed deviation. In the next step, the pre-normalized spectrum is re-normalized with this fit. The result, shown as the solid black line, is in fact the observation normalized to one synthetic spectrum from the grid (one temperature, surface gravity and $[M/H]$). T_{eff} and $\log g$ of the synthetic spectrum shown in the plot are fairly close to the real values of the star but with an evident overabundance.

4.5.2 Cosmic and bad pixel correction

In a next step the corrections for cosmoics in the observations or bias frames and other bad pixel information (dips) is carried out. As the AAO spectra suffer heavily from these artificial features it is of great importance to correct properly for these effects. The impact of these features on the fitting process is twofold: First, as the metallicity is estimated on a summed-up averaged line, dips that occur on positions where lines are located will bias the result. Second, dips that occur in a hydrogen line will lead to a false radial velocity estimate and/or wavelength recalibration. The example shown in Figure 4.20 illustrates both cases. To identify the dips the same approach as for the pseudo-continuum normalization is used. For every synthetic spectrum the grid points are identified that deviate more than 4 times σ in the

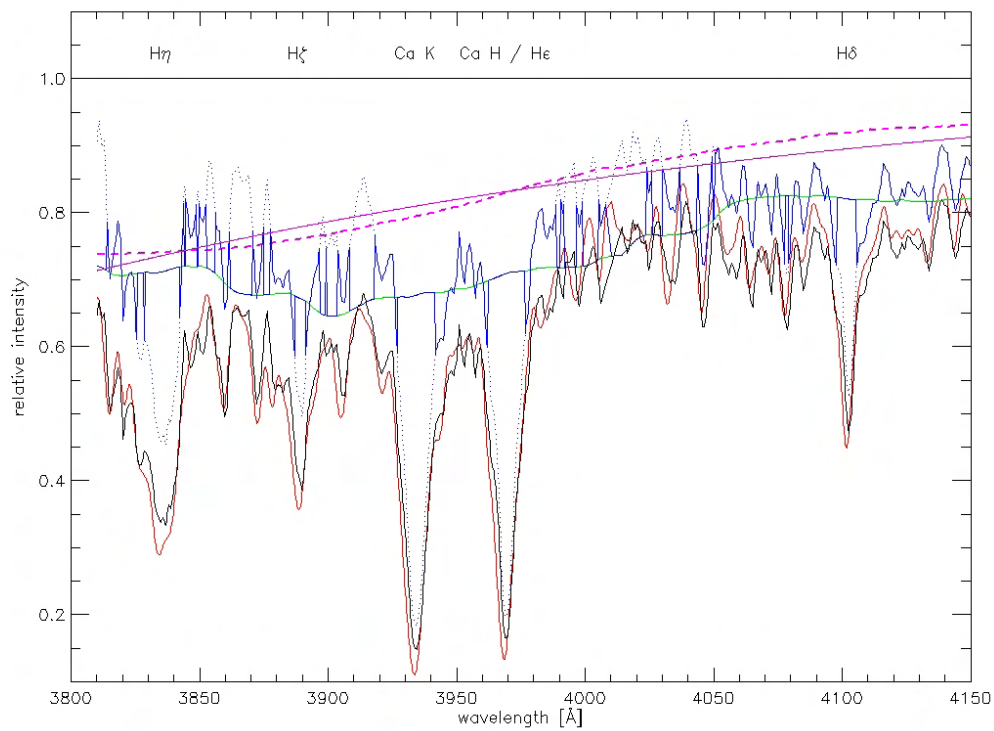


Figure 4.19: Pseudo-continuum normalization with one synthetic spectrum from the grid. See Sec. 4.5.1 for an explanation of the various lines.

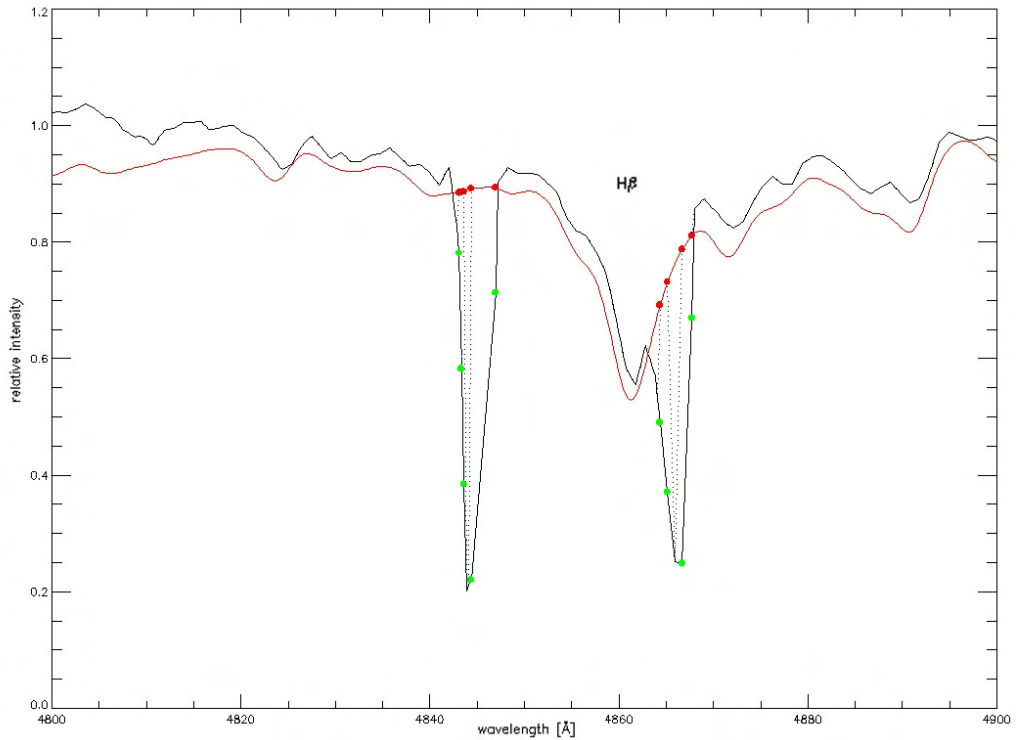


Figure 4.20: Dip near and in the $H\beta$ line. The green points are identified as belonging to the dip. The red points are the corresponding points in the synthetic spectrum.

point to point scatter between the observation and the synthetic spectrum. Identified points are shown in green for the observation and in red for the synthetic spectrum. The synthesis in the plot has a temperature and surface gravity fairly close to the final values. Figure 4.21 and 4.22 show the iterative procedure steps. Every data point identified as being part of the dip is replaced by the corresponding point of the synthesis.

4.5.3 Radial velocity correction and wavelength re-calibration

The radial velocity correction is performed by the cross-correlation of the observed spectrum with each synthetic spectrum from the grid. As the used resolution of 1400 is fairly low the only lines strong enough to be used for radial velocity correction are the hydrogen lines and the strong Ca and Mg lines. Each synthetic spectrum from the grid is shifted step by step in radial velocity over an interval of up to 500

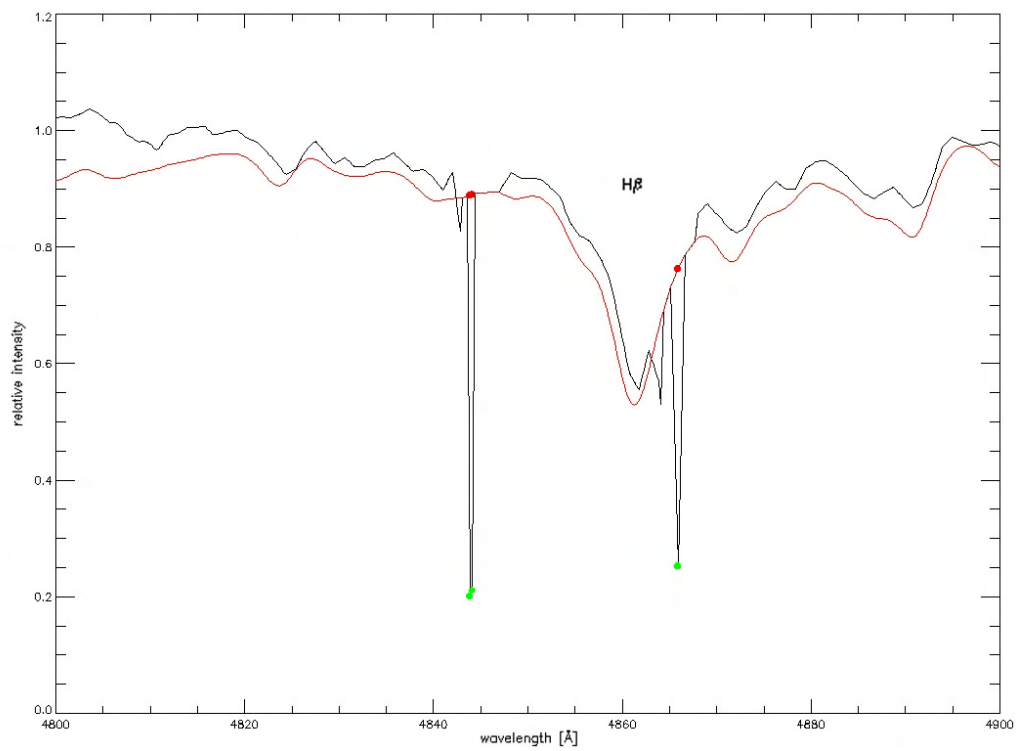


Figure 4.21: Same as Figure 4.20 but after the second iteration.

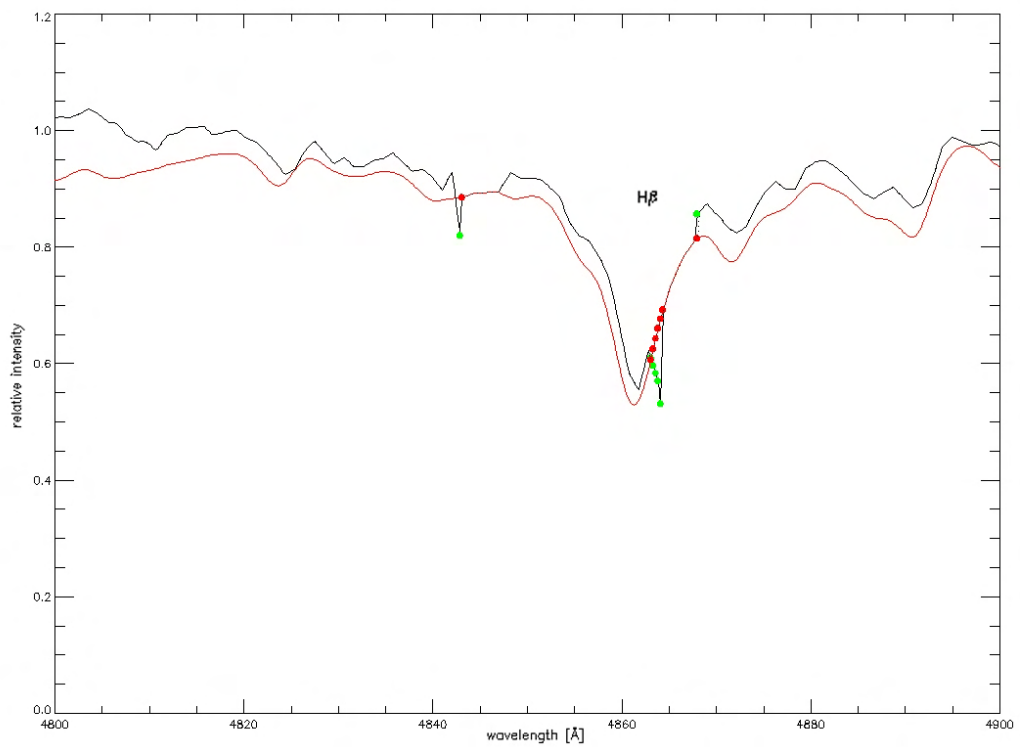


Figure 4.22: Same as Figure 4.20 but after the third iteration.

km/s. In an extra iteration step the offset (plus/minus shift in relative intensity) is compensated. At each shift, the synthetic spectrum is re-sampled to the same sampling as the observed spectrum and the correlation coefficient of the two spectra is calculated by:

$$CC(\nu) = \frac{1}{\sum_{j=1}^m \sum_{i=1}^n (stdev(S_{(\nu_i, \delta_j)} - R) - ptp(S_{(\nu_i, \delta_j)} - R)) \cdot \sum_{j=1}^m \sum_{i=1}^n (abs(S_{(\nu_i, \delta_j)} - R))} \quad (4.9)$$

where ν is the shift in radial velocity and δ is the offset in relative intensity. The point to point scatter (ptp) of the spectra is defined by:

$$ptp = \sqrt{\frac{\sum_{i=1}^n (S_{(i)} - S_{(i+1)})^2}{2 \cdot N}} \quad (4.10)$$

and $stdev$ is the standard deviation:

$$stdev = \sqrt{\frac{1}{N} \sum_{i=1}^n (X_{(i)} - \bar{X})^2} \quad (4.11)$$

The first term in equation 4.9 is sensitive to the shift in wavelength (radial velocity), the second term is the absolute difference between the observed and the synthetic spectrum which is sensitive to an offset in relative intensity.

The cross-correlation as a function of wavelength shift and offset in relative intensity for the H β and H η line is shown in figure 4.23 and 4.24. The wavelength shift and the offset of the line of the observed star corresponds to the maximum of the correlation function. The radial velocity derived from the H β line would be -41.7 km/s whereas the value derived from the H η line would be -20.8 km/s. This illustrates the necessity for the wavelength re-calibration.

All AAO spectra are reduced and wavelength-calibrated by an automatic pipeline provided by the observatory. One feature of this reduction that was learned during the course of this work was that the wavelength calibration of the spectra is often shifted and/or distorted by a few Angstrom depending on the wavelength region with an increased offset towards the blue end. As these very low resolu-

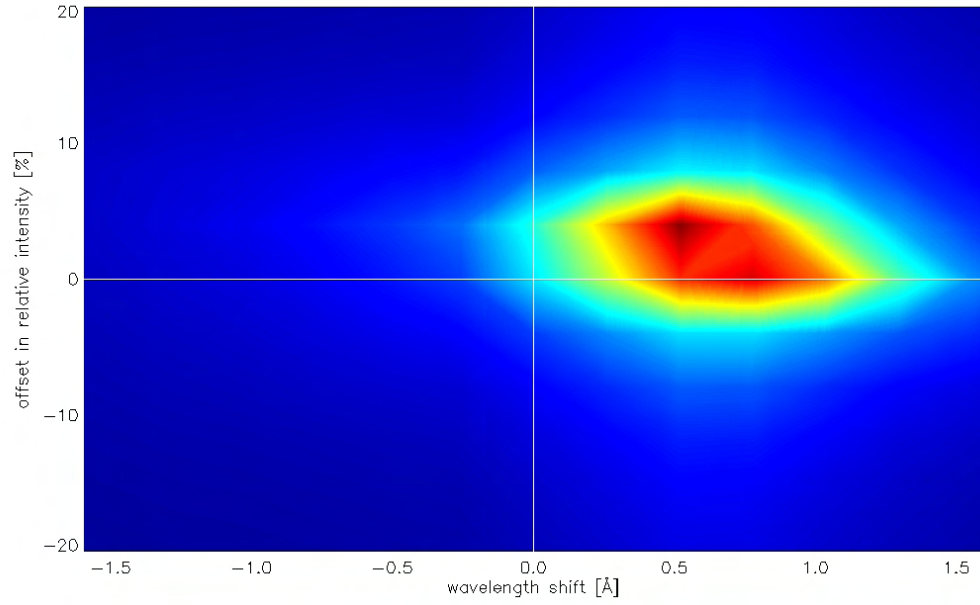


Figure 4.23: Cross-correlation as a function of wavelength shift and offset for the H β line.

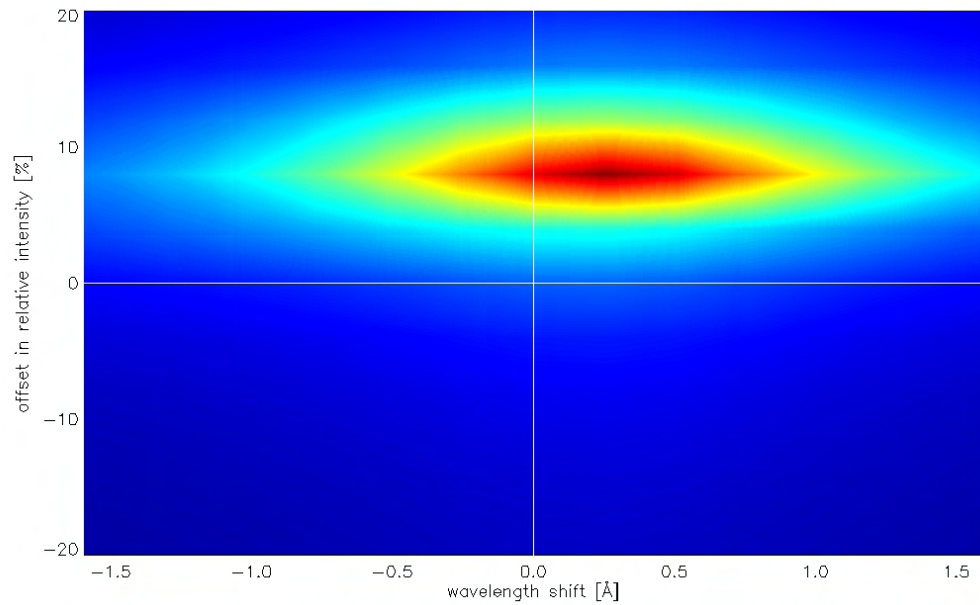


Figure 4.24: Same as figure 4.23 but for the H γ line.

tion ($R=1400$) spectra are normally only used as classification spectra to estimate a spectral type and a luminosity class, this quite small error does not affect that kind of analysis. However for our purpose it is of fundamental importance that the wavelength calibration is done properly. For this reason the shift in the wavelength calibration is fitted together with the radial velocity correction for nine lines including the $H\alpha$, $H\beta$, $H\gamma$, $H\delta$, $H\epsilon$, $H\zeta$, $H\eta$ and Ca K line and the Mg triplet. Figure 4.25 shows the different shifts applied to the lines. The re-calibration factor for the wavelength between the fitted lines is linearly interpolated. In a second step the offset correction is applied to the observed spectrum. Figure 4.26 shows the offset for the fitted lines. The offset between the lines is again linearly interpolated. The mean radial velocity of the star is -83 km/s.

Figure 4.27 shows the wavelength region around the Mg triplet which is used to estimate the surface gravity for cooler stars. The red line shows the synthetic spectrum for one grid point and the black line the observed spectrum after the pseudo-continuum normalization. The yellow line shows the ratio of the observed and the synthetic spectrum with a box smooth over $150\text{\AA}$, which can be used to correct for residual trends that could not be corrected by the re-normalization or the previous line offset correction. The green line is the final re-normalized, offset corrected and smoothed observed spectrum.

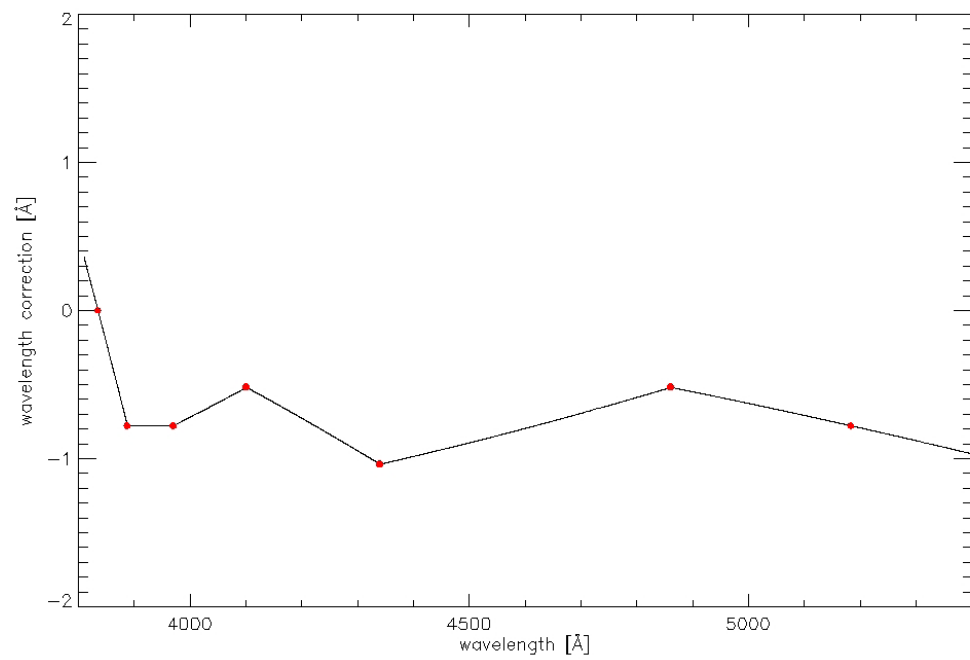


Figure 4.25: Wavelength shift applied to the observed spectrum. The red dots show the shift for the fitted lines.

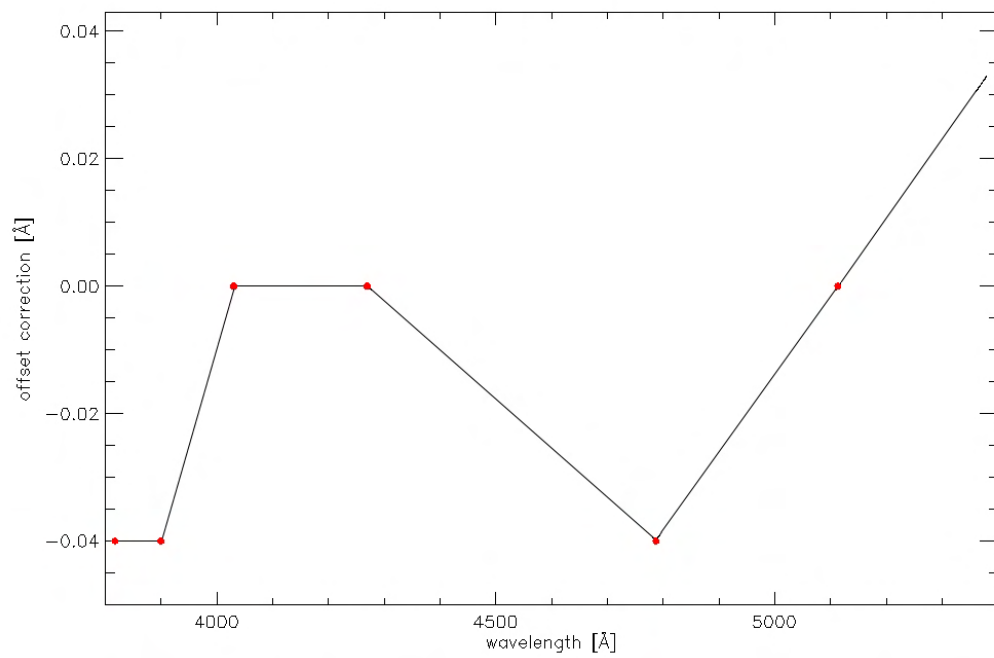


Figure 4.26: Offset shift applied to the observed spectrum. The red dots show the shift for the fitted lines.

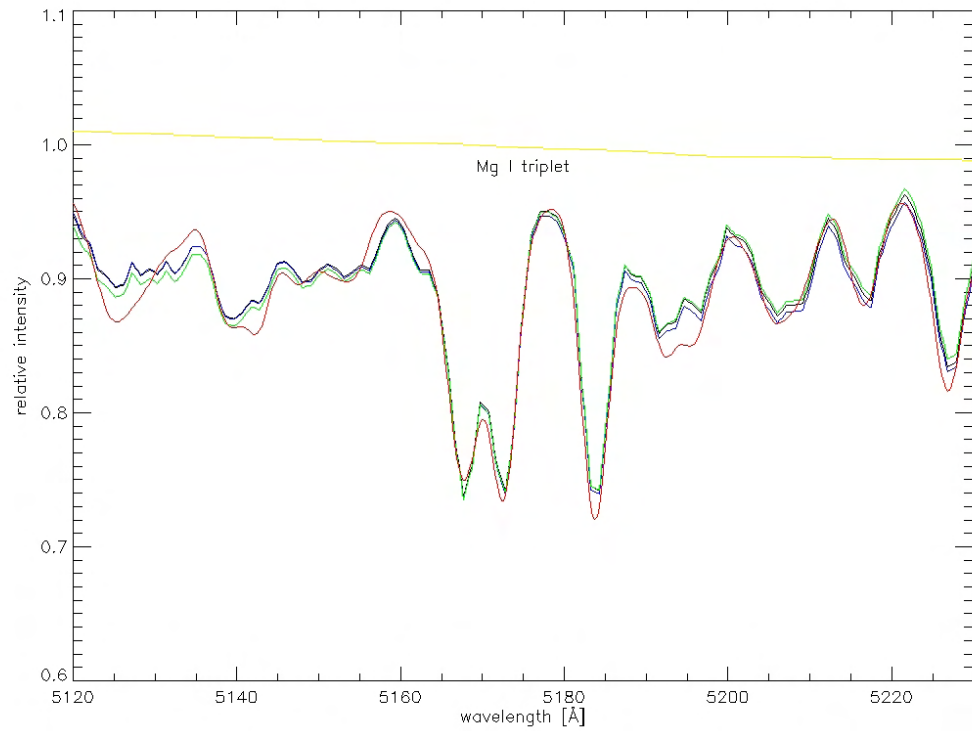


Figure 4.27: Wavelength region around the Mg triplet, which is used to estimate the surface gravity. The red line shows the synthetic spectrum for one grid point and the black line the observed spectrum after the pseudo-continuum normalization. The yellow line shows the ratio of the observed and the synthetic spectrum with a box smooth over 150Å.

4.6 Estimating the fundamental parameters

The determination of the atmospheric parameters is iterative. Initial values for the effective temperature are provided by the ratio of the CaK and the G-band to their neighbouring hydrogen lines as described above. For the surface gravity a starting value of 4.2 is assumed. Solar chemical composition and a $v \sin i$ of 10 km/s is adopted for the initial step.

Each parameter pair (effective temperature and surface gravity, metallicity and $v \sin i$) is determined independently from the other, fixing the other two to their initial values. At each beginning of a new iteration, the values of the four parameters are updated, thus providing new initial starting values. This process is repeated until the convergence conditions are met. This is either if the best fitting parameter stays the same in two consecutive iterations or if the number of iterations exceeds a total of 10. In the latter case the mean of the four previous iterations is taken. This iterative approach was chosen over a direct approach (e.g. going through the whole grid over all parameters at once), because it is computationally a lot faster. Yet, the iterative approach is in contrast more complex in terms of convergence.

In each iteration loop the effective temperature and the surface gravity are estimated for a 200Å wide region around the H β line (which is sensitive to both parameters) and for the Mg triplet around 5180Å (shown in Figure 4.27) or for stars hotter than 7200K for the CaK line, which are both sensitive to surface gravity. The bayesian probability is calculated according to equation 4.2 for all grid points in the 2D space of T_{eff} and $\log g$.

Figure 4.28 shows the probability distribution for the fitting of effective temperature and surface gravity of CoRoT-5b for an initial value of 10 km/s for $v \sin i$ and solar composition for metallicity. The probability P is color coded. Each synthetic spectrum from the 2D grid corresponds to a white dot.

4.6.1 Metallicity and $v \sin i$ estimation

For estimating the metallicity we used the region between 4600 and 5300Å where the change in flux due to $[M/H]$ is quite big, while keeping in mind that the automated continuum normalisation should not be too complex. We therefore avoided

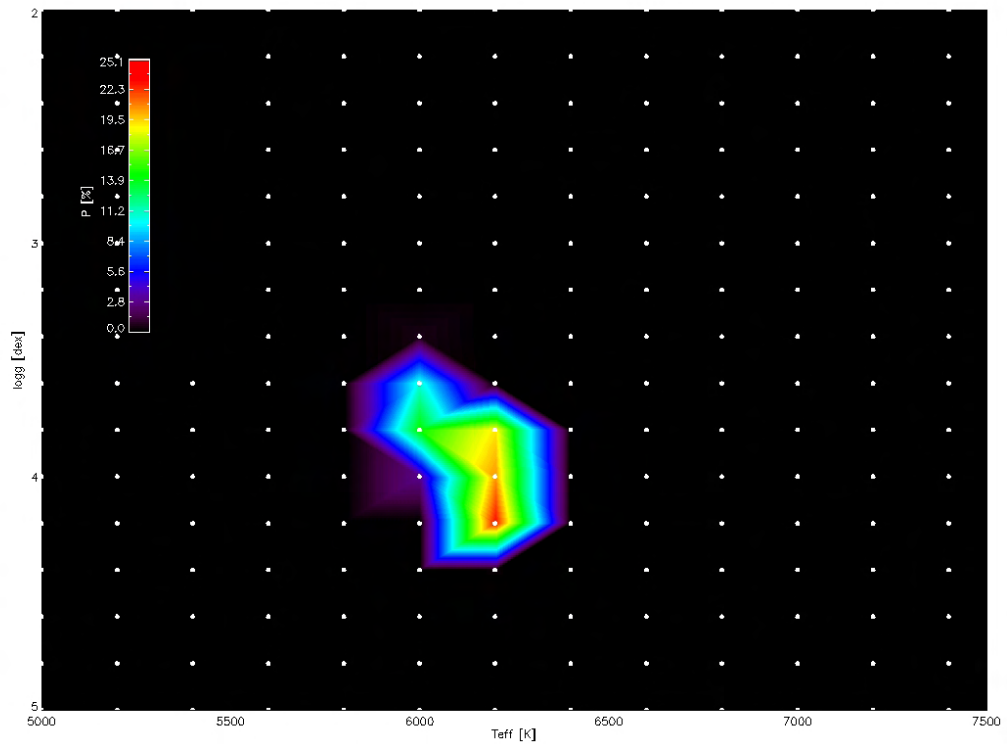


Figure 4.28: Probability distribution for the fitting of temperature and surface gravity of the Corot Exo-5b for an initial value of 10 km/s for $v \sin i$ and solar composition for metallicity. The probability P is color coded. The white dots show the grid points for the synthetic spectra.

the H-lines and the blue wavelength region with too much line blending. The initial step is that all lines from the best fitting T_{eff} - $\log g$ combination found in the previous step, are selected from the line list used in the computation of the synthetic spectra. From this selection lines are chosen that have a line depth that is bigger than three times the S/N of the observed spectra. For low metallicity stars and/or hot stars this limit can be reduced to two times the S/N if the total number of strong lines is lower than 100 (empirical value needed to get a good average line). For all metallicity steps and for a $v \sin i$ of 0 to 200 km/s in 10 km/s steps all the lines in the synthetic spectra are then summed up and normalized.

For every single line of the observed spectrum a separate radial velocity correction is performed prior to the summing and normalizing to correct for small remaining offsets in the wavelength calibration.

Figure 4.29 shows the average line profile of 207 lines in the wavelength range of 4600Å to 5300Å in black for the observed spectra and in blue for the best fitting synthesis. The gray dashed lines are the different [M/H] steps ranging from -1.5dex up to +1.0dex. The green line shows a Gauss fit to the observed mean line and the vertical green lines show the FWHM. The vertical blue lines show the interval that was used for the fitting. The best fitting $v \sin i$ for all plotted [M/H] values is 10 km/s.

Figure 4.30 shows the color coded probability distribution for the fitting of [M/H] and $v \sin i$. The distribution shows that the fit for [M/H] is quite solid but that the fit for $v \sin i$ has a relatively large uncertainty. Therefore, the estimated value for $v \sin i$ should only be taken as an indicator for slow, medium or fast rotation.

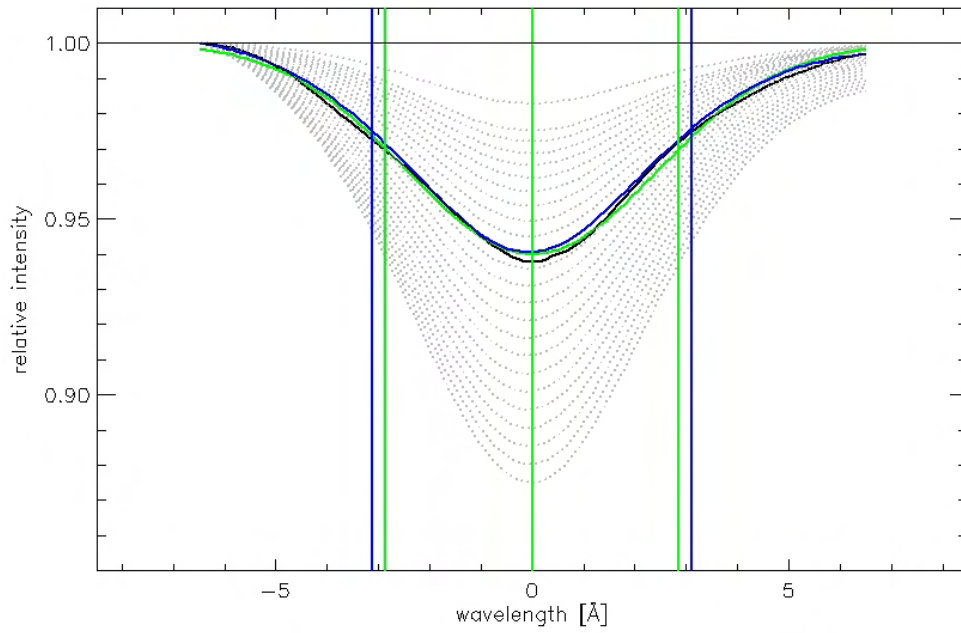


Figure 4.29: Mean line profile over 207 lines in the wavelength range of 4600Å to 5300Å shown in black for the observed spectrum and in blue for the best fitting synthesis. The gray dashed lines are the different $[M/H]$ steps ranging from -1.5dex up to +1.0dex. The green line shows a Gauss fit to the observed mean line and the vertical green lines show the FWHM of the gauss. The vertical blue lines show the interval that was used for the fitting of the metallicity.

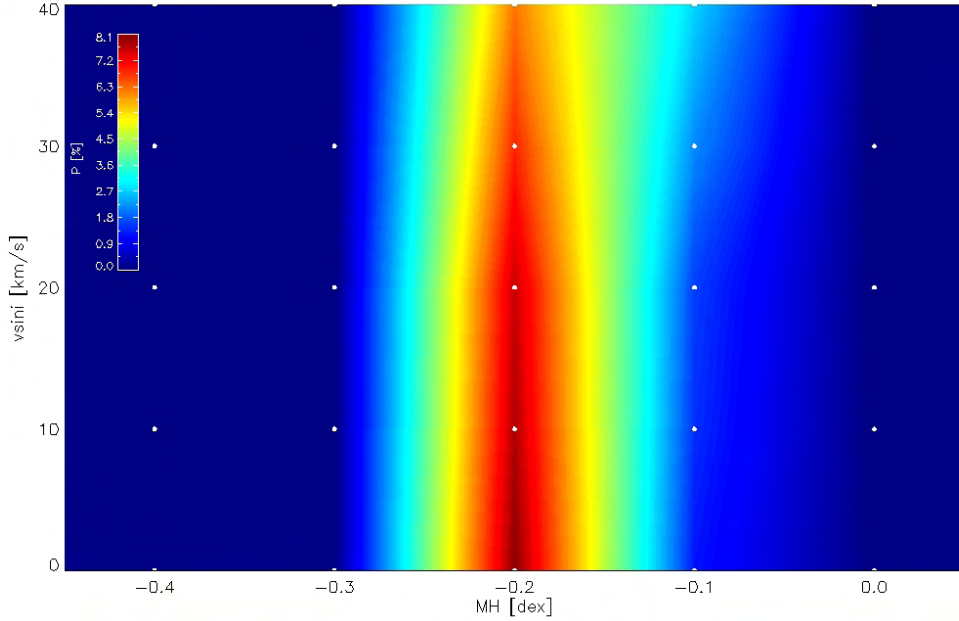


Figure 4.30: Color coded probability distribution for the fitting of $[M/H]$ and $v \sin i$.

4.7 Interpolation, final fit and confidence interval

After the convergence criteria are reached, the synthetic spectra in the grid around the most likely solution are linearly interpolated. Figure 4.31 shows the schematic layout for this interpolation in the grid of synthetic spectra. In between each grid point two points (synthetic spectra) are linearly interpolated for the final fit. Simulations have shown that the method (linear, cubic, spline, etc.) of interpolation in the grid is of insignificance. The effects of the never optimal normalisation of the observed spectrum is by far bigger than the difference produced by different interpolation methods.

This final probability distribution for Corot-Exo 5b as an example is shown in Figure 4.32, which is then used to derive the confidence intervals.

To estimate the errors we show in Figures 4.33, 4.34 and 4.35 the cumulative (i.e. summed) probability distribution functions of the effective temperature, the surface gravity and the metallicity. We can so derive the most probable model parameters and their uncertainties via the median and the $\pm 1 \sigma$ environment. The cumulative probability distribution function gives a temperature of $6030 \pm 90\text{K}$, a

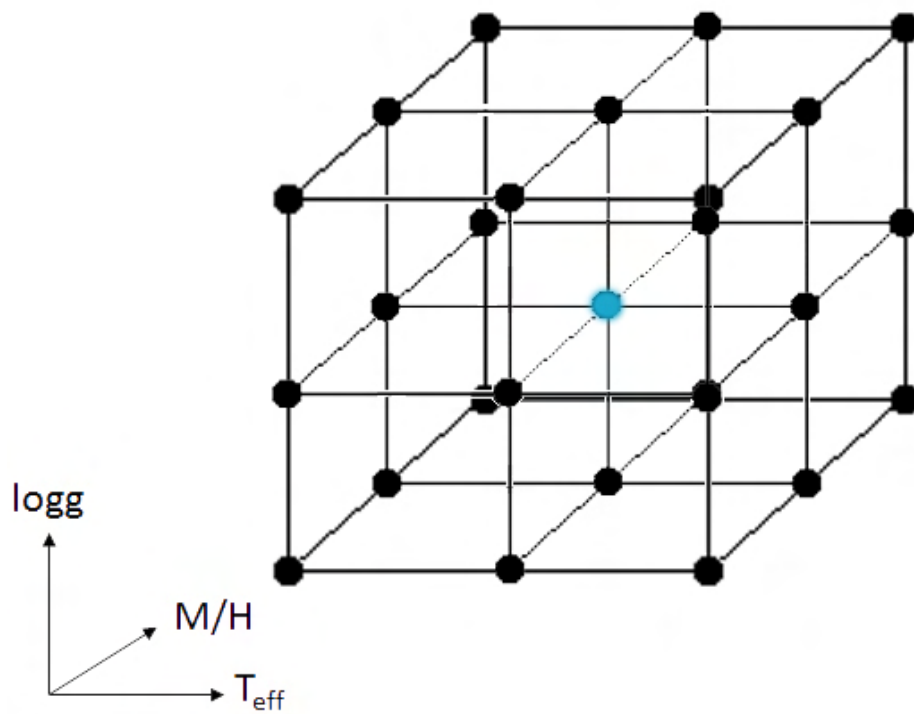


Figure 4.31: Schematic layout for the interpolation in the grid of synthetic spectra. The most likely solution is shown in blue and the 26 neighboring ones in black.

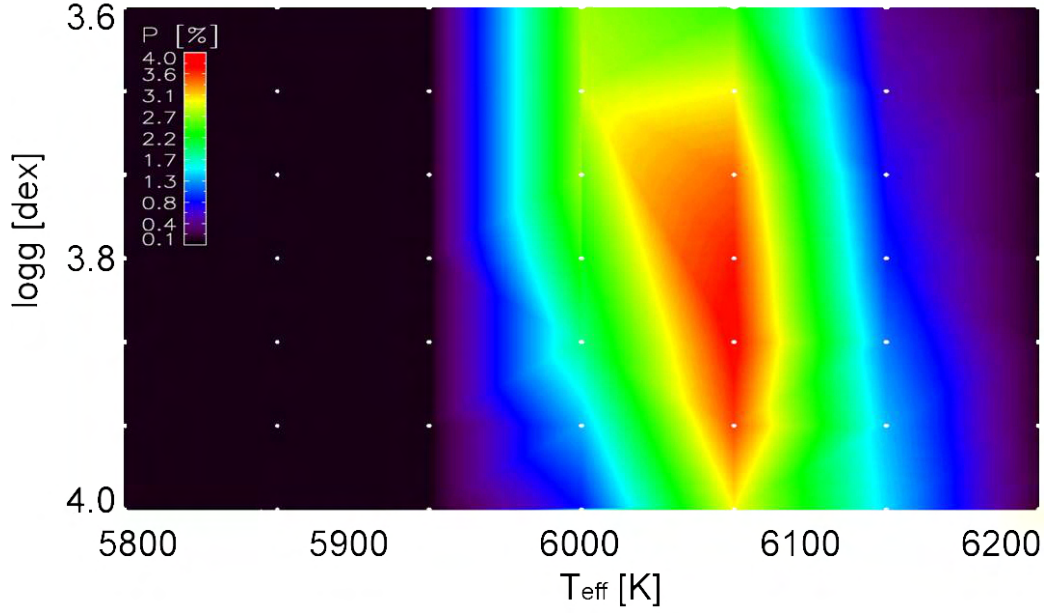


Figure 4.32: Probability distribution of the final fit of Corot Exo-5b. The probability P is color coded.

$\log g$ of $3.92 \pm 0.27 \text{ dex}$ and a metallicity of $-0.32 \pm 0.24 \text{ dex}$.

Note that these uncertainties are not the uncertainties within which we can determine the star's position in the HRD, but they instead correspond to the uncertainties within which we can constrain the model parameters in the used grid. The actual uncertainties might be larger as we have not included any assumptions about the model uncertainties themselves.

Figure 4.36 shows the result for the automated $H\beta$ fitting of the star. The best fitting synthetic spectrum is shown in red, the part used to fit T_{eff} and $\log g$ is within the dashed vertical blue lines and the part used to fit $[M/H]$ between the green dashed lines. The yellow line shows the box smoothed residuals between the model and the fit.

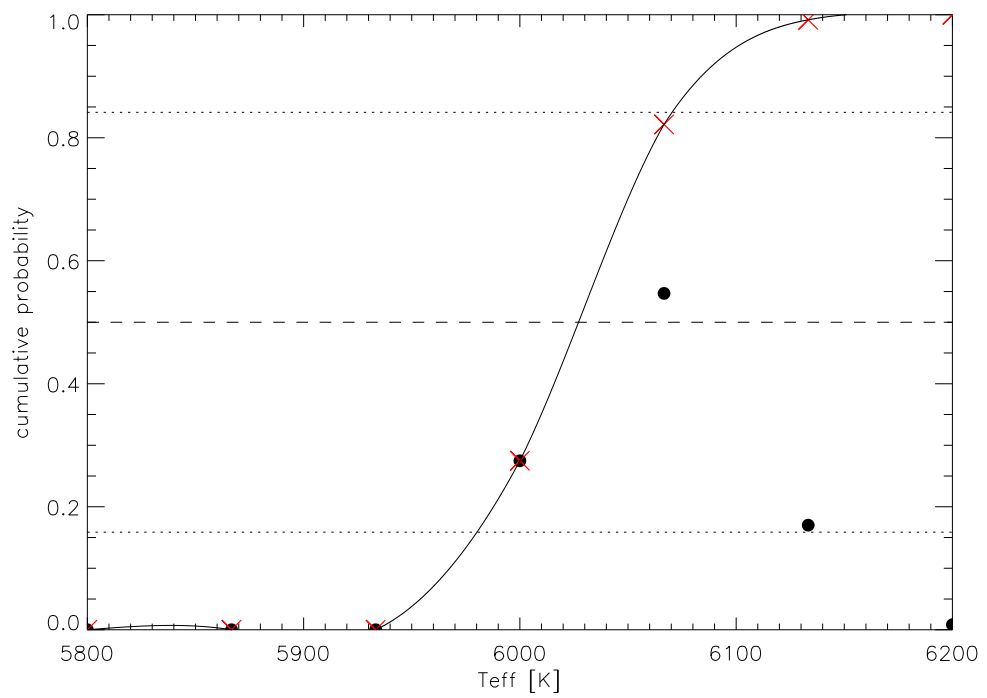


Figure 4.33: The cumulative probability distribution function (red crosses) and the individual model probabilities (black dots) for the effective temperature. The dotted line corresponds to the median and the dashed lines give the $\pm 1 \sigma$ confidence interval.

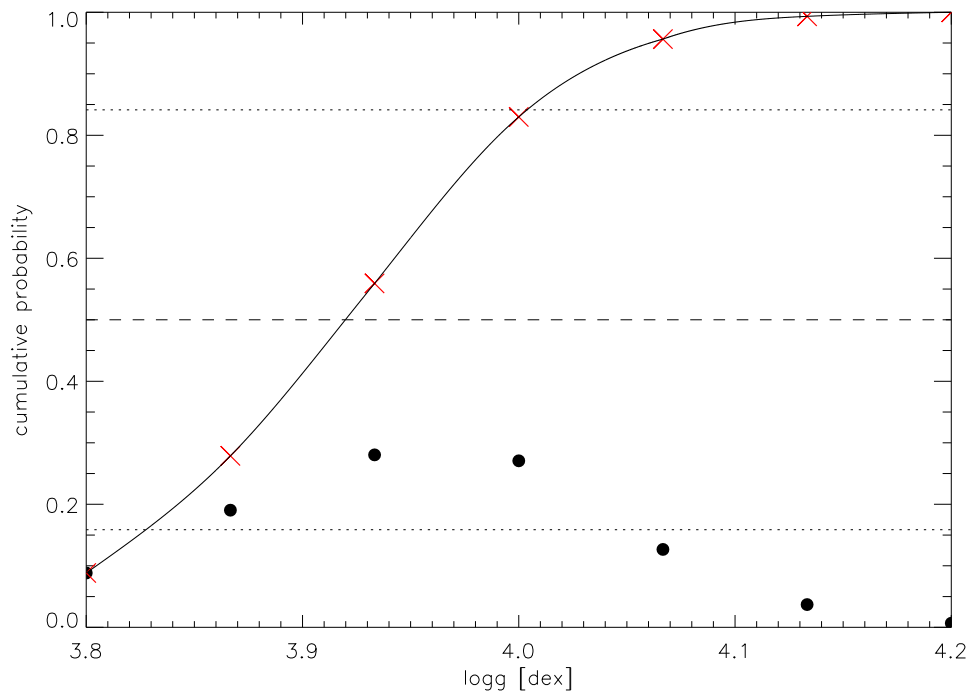


Figure 4.34: Same as Figure 4.33 but for $\log g$.

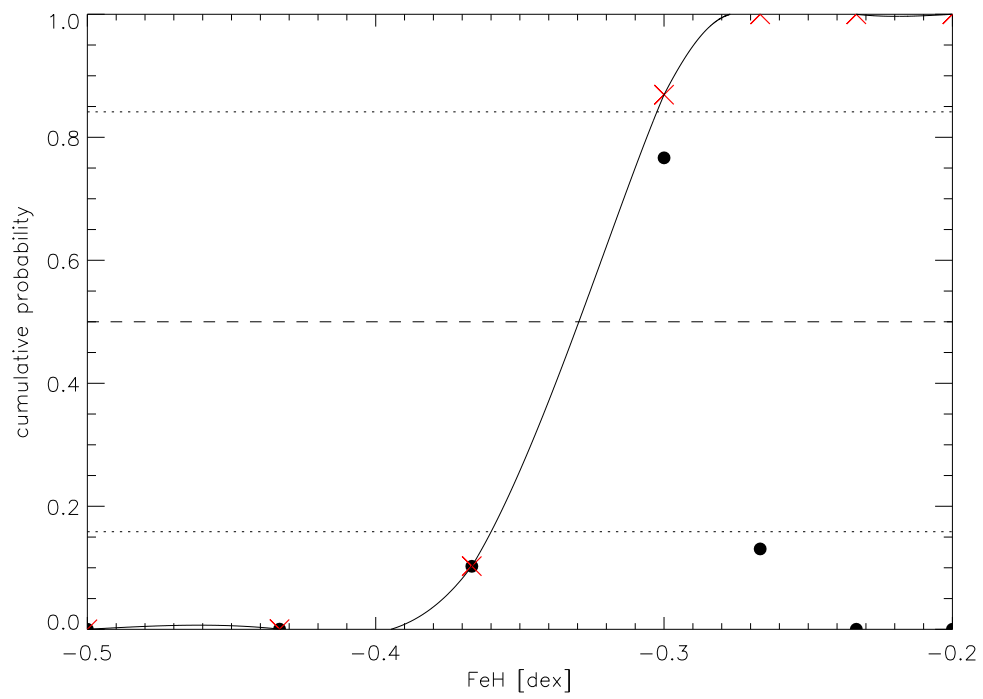


Figure 4.35: Same as Figure 4.33 but for metallicity.

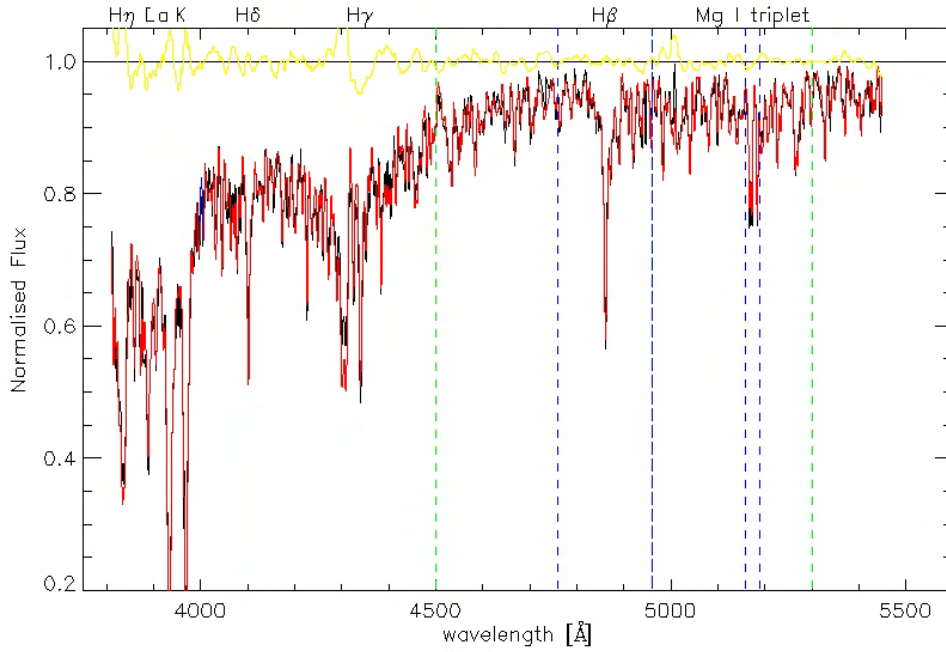


Figure 4.36: Example for the automatic $H\beta$ fitting of the AA0 low resolution spectra of CoID 102764809. The best fitting synthetic spectrum is shown in red, the part used to fit T_{eff} and $\log g$ is within the dashed vertical blue lines and the part used to fit $[M/H]$ between the green dashed lines. The estimated effective temperature is 6030K, $\log g$ 3.92dex, $[M/H]$ -0.32dex and the radial velocity -83 km/s. The yellow line shows the box smoothed residuals between the model and the fit.

4.8 Sensitivity to signal-to-noise ratio

To evaluate the sensitivity of our method to the noise level in observed spectra, we applied it to a large number of synthetic spectra (around 12000) to which we added Gaussian noise of various strength to simulate different S/N values. The synthesised spectra were treated in exactly the same way as the observed ones (including the continuum-normalisation). Figures 4.37 to 4.45 show the resulting errors in the effective temperature, surface gravity and metallicity determination as a function of the S/N ratio. For A stars the determination of the effective temperature is accurate down to a S/N of around 50 with an offset of below 1% and a standard deviation of less than 3% which translates into an uncertainty in effective temperature of about 150K. For the surface gravity estimation (which is mostly done in the wings of the hydrogen lines) the uncertainty at a S/N of 50 is about $-0.2 \pm 0.25\text{dex}$. This poor performance is mostly caused by problems with the normalization of the continuum around the hydrogen lines. The values for the metallicity estimation do not show notable effects down to a S/N of 50. The standard deviation is around 0.15dex and increasing towards lower S/N because less and less lines can be used to compute the average line profile. For a S/N of 10 it is in most cases not possible to converge to a solution.

For F stars the case of determining the effective temperature improves a lot. The offset is below 0.25% and the standard deviation is around 1% which translates into an uncertainty in temperature of about 100K. As can be seen in Figure 4.40 most values cluster around 0 with some outliers towards -3%. This corresponds to a difference of about 200K, which is the step width in the grid of synthetic spectra and suggests that this offset is the result of the pseudo-continuum normalization with the best fitting model that can lead to an over correction of the observed spectra in some cases. For the surface gravity estimation the uncertainty at a S/N of 50 is about $\pm 0.15\text{dex}$ without offset.

In the temperature regime of F stars the Mg lines start getting sensitive to changes in $\log g$, which significantly improves the estimate. Down to a S/N of 50 the offset in the metallicity estimate is steadily increasing, which is because the increasing noise is more and more interpreted as line features.

For G and K stars the results are comparable to those of the F stars. The offset

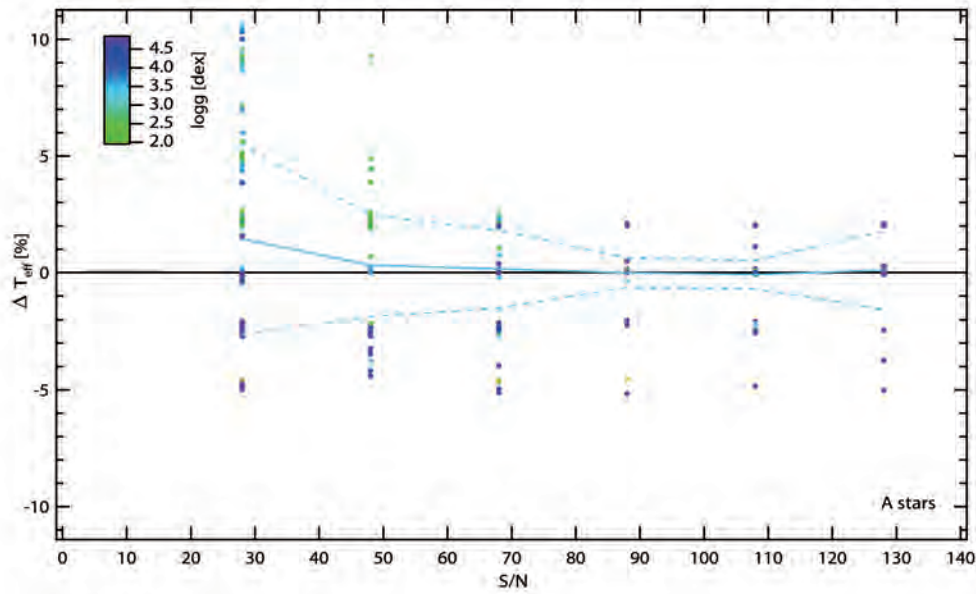


Figure 4.37: Internal error in the determination of the effective temperature for A stars as a function of the S/N ratio. The solid blue line shows the mean deviation and the dashed line the standard deviation. The surface gravity is color coded.

is close to 0% and the $\pm 4\%$ scatter at S/N rates below 50 corresponds again to the step width in the used grid.

For the surface gravity estimation the uncertainty at a S/N of 50 is about $\pm 0.2\text{dex}$ with a small but constant offset of 0.02dex . The latter is introduced by a systematical underestimation of the surface gravity. Furthermore there is a strong dependence of the error in respect to the actual surface gravity: Giants get overestimated whereas dwarf stars get underestimated.

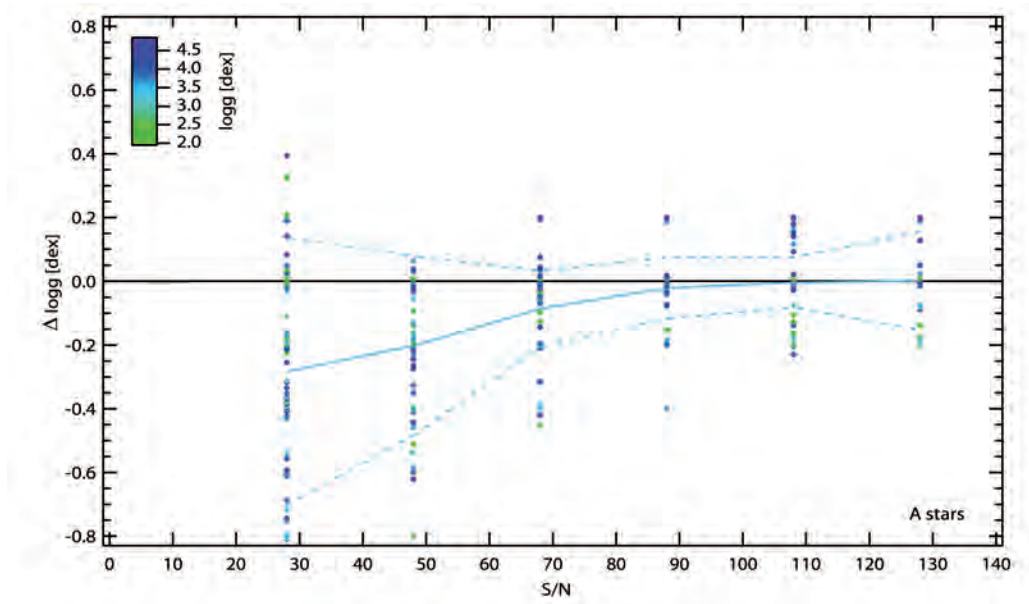


Figure 4.38: Internal error in the determination of the surface gravity for A stars. The solid blue line shows the mean deviation and the dashed line the standard deviation. The surface gravity is color coded.

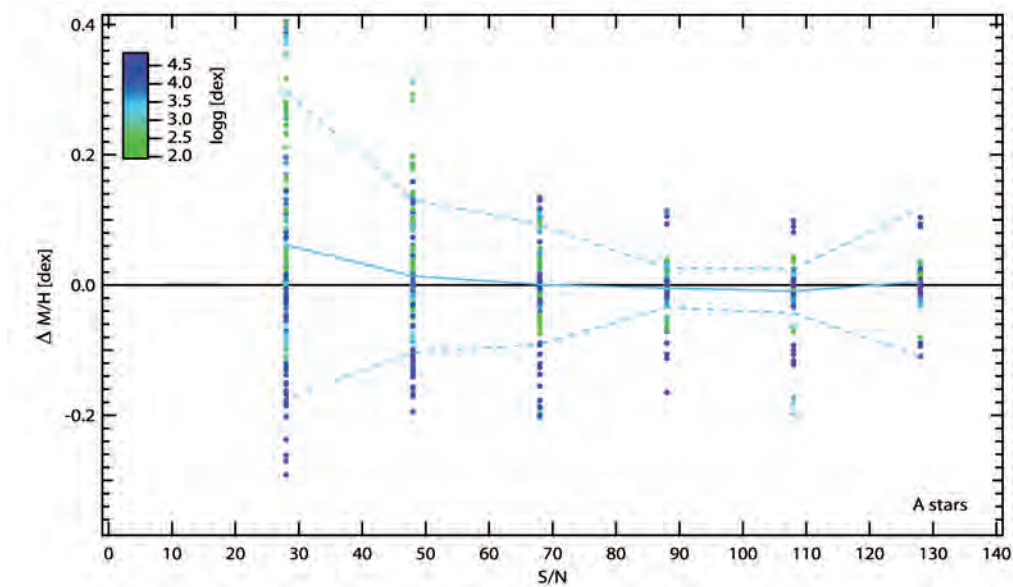


Figure 4.39: Internal error in the determination of the metallicity for A stars. The solid blue line shows the mean deviation and the dashed line the standard deviation. The surface gravity is color coded.

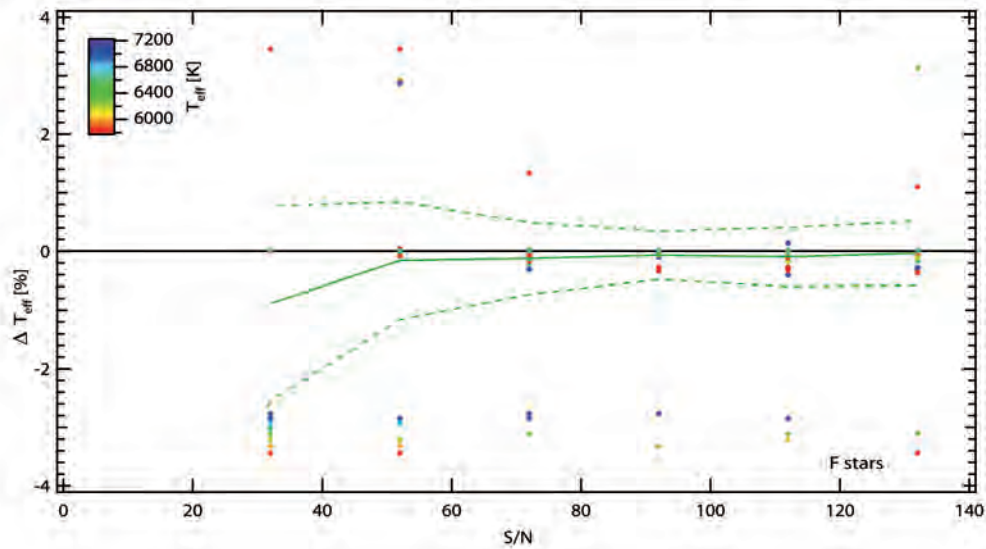


Figure 4.40: Internal error in the determination of the effective temperature for F stars as a function of the S/N ratio. The solid green line shows the mean deviation and the dashed line the standard deviation. The effective temperature is color coded.

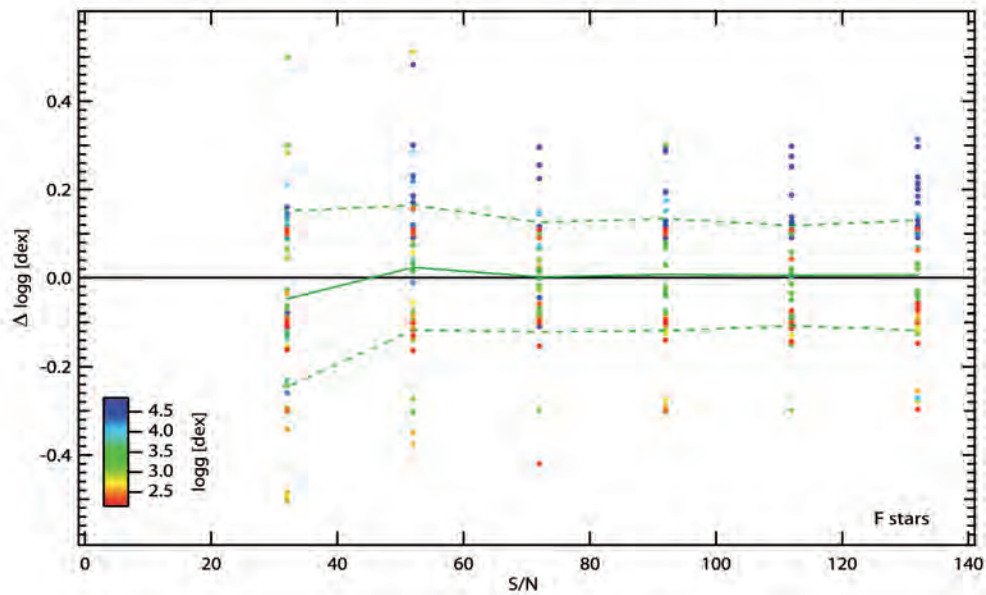


Figure 4.41: Same as Figure 4.8 but for F stars. The solid green line shows the mean deviation and the dashed line the standard deviation. The effective temperature is color coded.

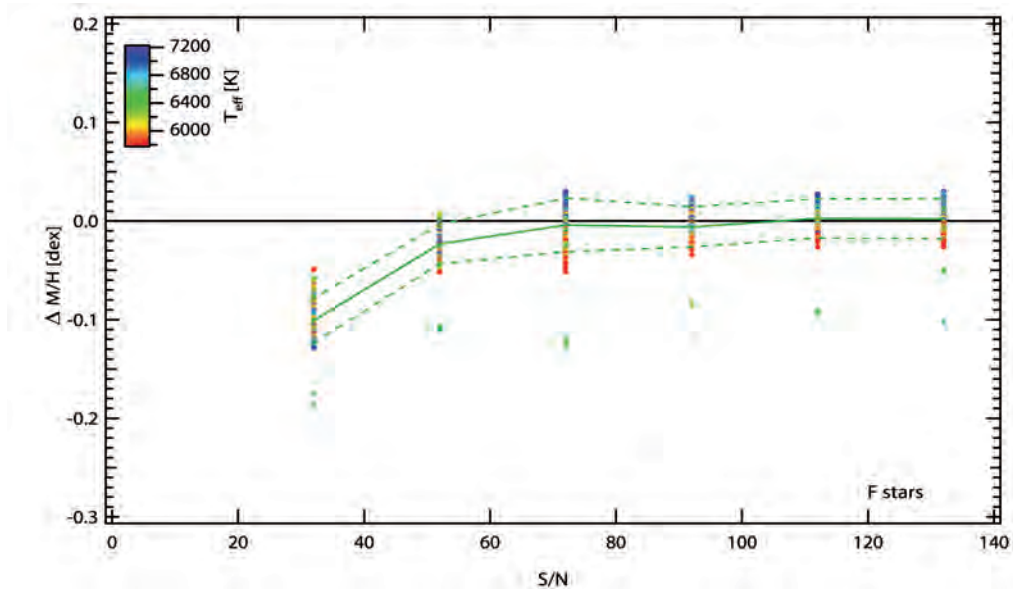


Figure 4.42: Same as Figure 4.39 but for F stars. The solid green line shows the mean deviation and the dashed line the standard deviation. The effective temperature is color coded.

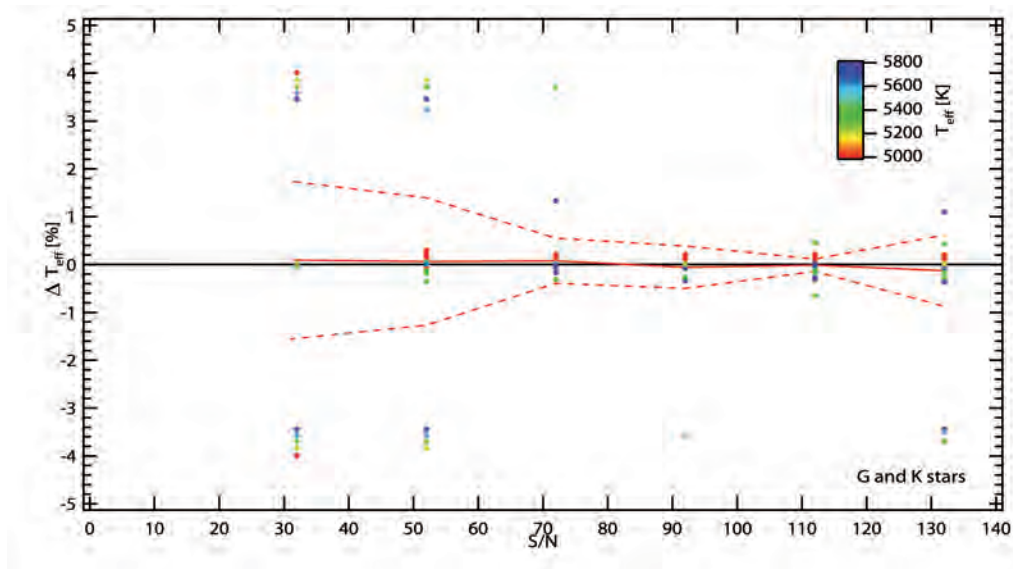


Figure 4.43: Same as Figure 4.40 but for G and K stars. The solid red line shows the mean deviation and the dashed line the standard deviation.

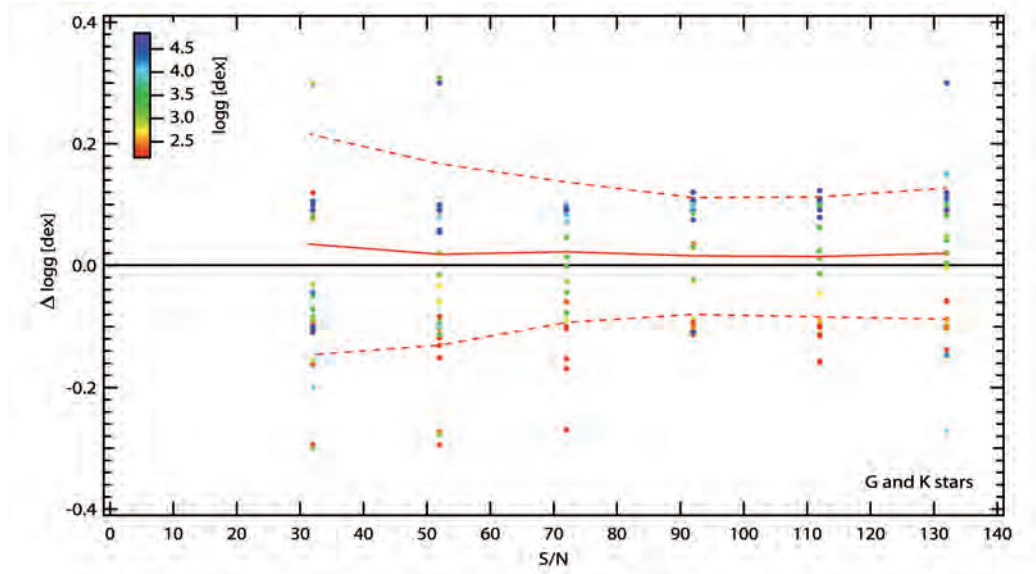


Figure 4.44: Same as Figure 4.41 but for G and K stars. The solid red line shows the mean deviation and the dashed line the standard deviation.

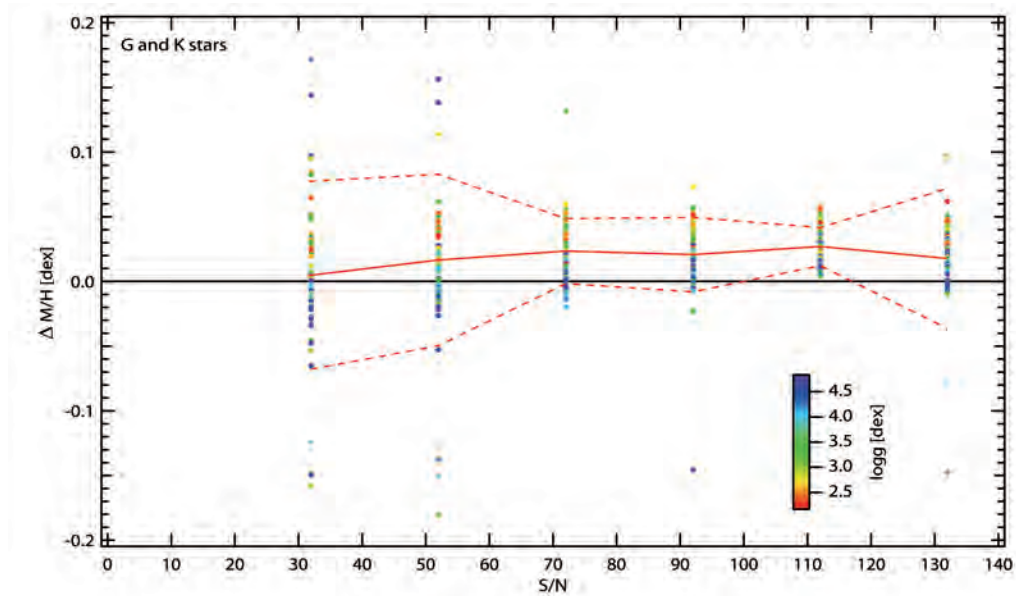


Figure 4.45: Same as 4.42 but for G and K stars. The solid red line shows the mean deviation and the dashed line the standard deviation.

4.9 Other error sources

One crucial source of uncertainty is the normalisation of the continuum. To investigate this we introduced an artificial offset after the continuum normalisation of 3 respectively 5%. For a star of 6000K and $\log g$ of 4.2dex the resulting errors are $\Delta T_{\text{eff}} = 10\text{K}$ and $\Delta \log g = 0.02\text{dex}$ for the 3% offset and $\Delta T_{\text{eff}} = 100\text{K}$ and $\Delta \log g = 0.25\text{dex}$ for the 5% offset. This stresses that the impact of the normalization is a matter of big importance that needs careful consideration. To account for that we implemented the iterative process for the determination of the continuum (see chapter 4.5.1).

4.10 Testing with the Elodie spectral library

For testing purposes the algorithm was applied to the Elodie spectral archive library (Prugniel et al. 2007) which contains spectra for 1959 stars with a resolution of 10000.

All spectra in the library come with two different sets of atmospheric parameters (temperature, surface gravity and iron abundance [Fe/H]). The first is an external compilation of a variety of different authors from various literature sources and the second has been determined by the TGMET software (Katz et al. 1998).

For the external determination, the main sources for the parameters are two versions of a catalogue on metallicity compiled by Cayrel de Strobel et al. (1997, 2001) which also give the effective temperature and the surface gravity. It is complemented with references by other authors providing T_{eff} and/or $\log g$ and/or [Fe/H]. The full list of all references is given in the paper (Prugniel et al. 2007). Whenever several values of a parameter were available for a star, they were averaged using weights.

For O, B and A stars there are very few references for atmospheric parameters to be found in the literature.

Therefore the temperatures in the Elodie library have been deduced from their spectral types (Astrophysical Quarterly, 4th edition), assuming a luminosity class of V.

Such a compilation of many different bibliographical sources may be consid-

ered as very heterogenic and the resulting quality of the averaged parameters might therefore be questioned. To take this into account quality classes (1 to 4) of the averaged parameters have been defined (Prugniel et al. 2007) including parameters like the year of publication and the agreement with other determinations.

A quality flag of 4 indicates for parameters of stars which have been extensively studied in the last years and for which the results from different authors coincide well.

There are 133 stars with a quality flag of 4 for T_{eff} and 82 for $[\text{Fe}/\text{H}]$. The typical standard deviations for these stars is 62K for T_{eff} and 0.08dex for $[\text{Fe}/\text{H}]$, respectively. These stars can be used as reference stars. A quality flag of 3 indicates a reasonable average parameter with a typical standard deviation of 74K for T_{eff} and 0.10dex for $[\text{Fe}/\text{H}]$, respectively, corresponding to stars which can be used for calibration purposes. A quality flag of 2 or 1 is attributed to mean parameters which should be considered with caution because they are computed from fewer and older references or because there are large discrepancies between different authors. The weighting system and resulting mean parameters are given in detail in the paper by Prugniel et al. (2007).

In order to compare the iron abundance in the library to the overall metallicity $[\text{M}/\text{H}]$ derived by our approach, it has to be assumed that the stars do not show big peculiar over- or under-abundances.

For the comparison only stars with quality flags of 3 and 4 have been selected. It has to be noted that the errors and standard deviations shown in the following plots (Figures 4.46 to 4.50) are not directly comparable. The errors given for the Elodie catalogue are computed as the standard deviation to the mean difference for stars with the same spectral class. The errors in this work, however, are derived from the cumulative probability in the Bayesian fitting.

Figure 4.46 shows a comparison of the difference between the effective temperature given in the Elodie catalogue and the values estimated in this work (color-coded dots) using the same Elodie spectra.

Solid and dashed lines indicate the average difference and standard deviation, respectively, per spectral class bin between the literature values and those given in the Elodie library (green) or those derived in this work (red).

As individual errors can vary in a large range from star to star, the described

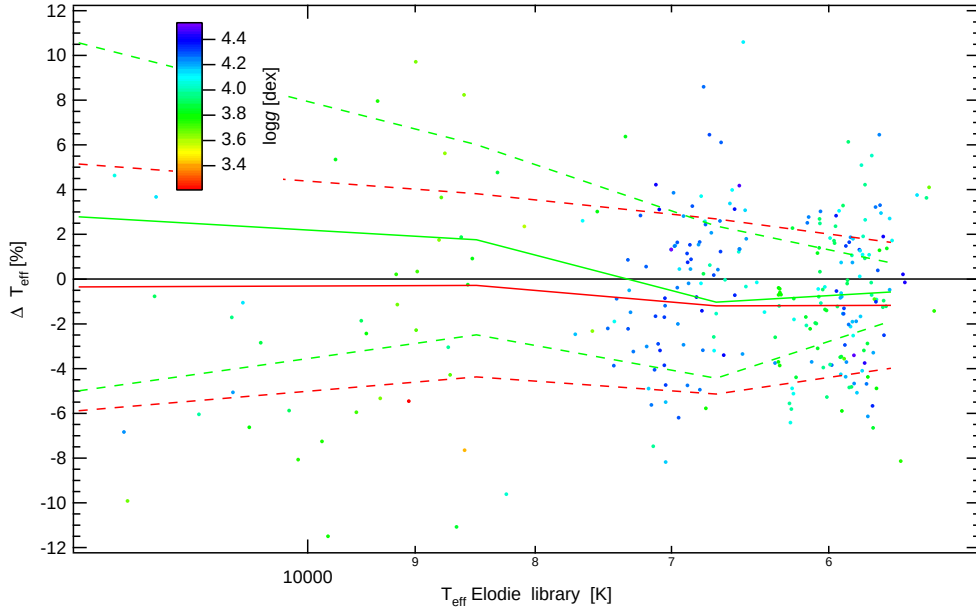


Figure 4.46: Difference between the literature values for the effective temperature given in the Elodie catalogue and the values estimated in this work. The solid green line is the offset between the literature and the estimated values in the Elodie library averaged over a spectral type (B, A, F and G). The dashed green line shows the average standard deviation. The solid red line is the offset between the literature and the values from this work. The dashed red line shows again the average standard deviation. The literature value for the surface gravity is color-coded.

averaging and binning of the errors was chosen over single error bars for better visibility.

The mean difference for A to G stars in our approach is roughly 2%, this means that using the same observational data my procedure results in temperatures which are $\sim 2\%$ higher than those determined via TGMET.

This is well within the errors derived from the values given in the Elodie catalogue. For B stars the difference is around 1% corresponding to an error of 100 to 200K and a notably bigger mean standard deviation of 5%. But as the mean error derived from the Elodie catalogue is above 10% the values also agree well within the error bars. The color-coding in the plots shows no dependence of the error with the luminosity class of the star.

Figure 4.47 shows a comparison of the difference between the surface gravity

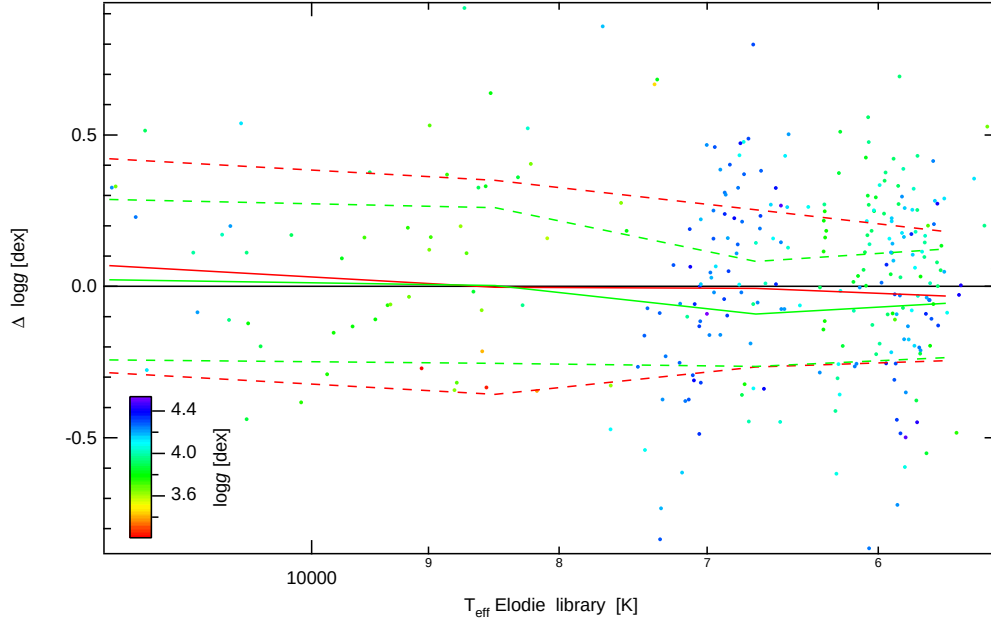


Figure 4.47: Same as Figure 4.46 but for surface gravity.

given in the Elodie catalogue and the values estimated in this work (color-coded dots). For the surface gravity the offset between the literature and our values is ranging from -0.06dex for cool stars to $+0.05\text{dex}$ for the hotter B type stars with a mean error of $\pm 0.18\text{dex}$ for A to G stars and 0.28dex for B stars (red solid line). The computed values are again well within the error derived from the Elodie catalogue. In Figure 4.48 the errors are plotted in relation to the surface gravity (luminosity class). The offset and standard deviations plotted are averaged over the entire temperature range. The color-coding in the plots shows no dependence with the surface temperature of the star.

Figure 4.49 shows a comparison of the difference between the iron abundance given in the Elodie catalogue and the metallicity estimated in this work (color-coded dots). For the iron abundance $[\text{Fe}/\text{H}]$ respectively the metallicity the offset between the literature and our values is ranging from 0.05dex for cool stars to -0.10dex for the hotter B type stars with the largest discrepancy of -0.18dex for A stars. This is not that surprising as we are comparing iron abundances to metallicity and it is known that for A stars individual abundances can significantly deviate from solar metallicity scaling, which is assumed for our models. The mean error of $\pm 0.1\text{dex}$ for

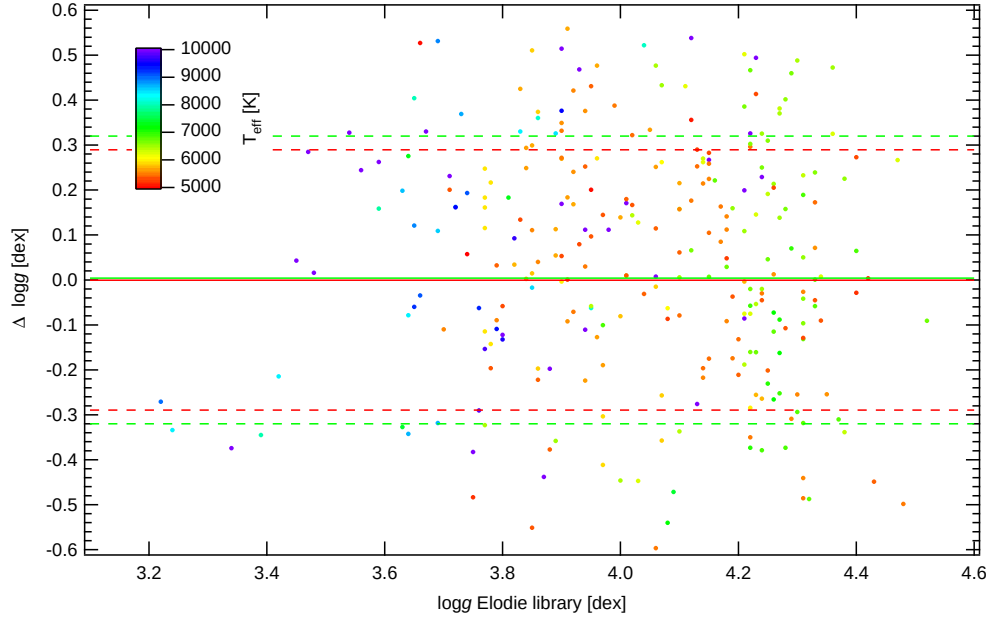


Figure 4.48: Same as Figure 4.46 but for surface gravity and a color-coded temperature.

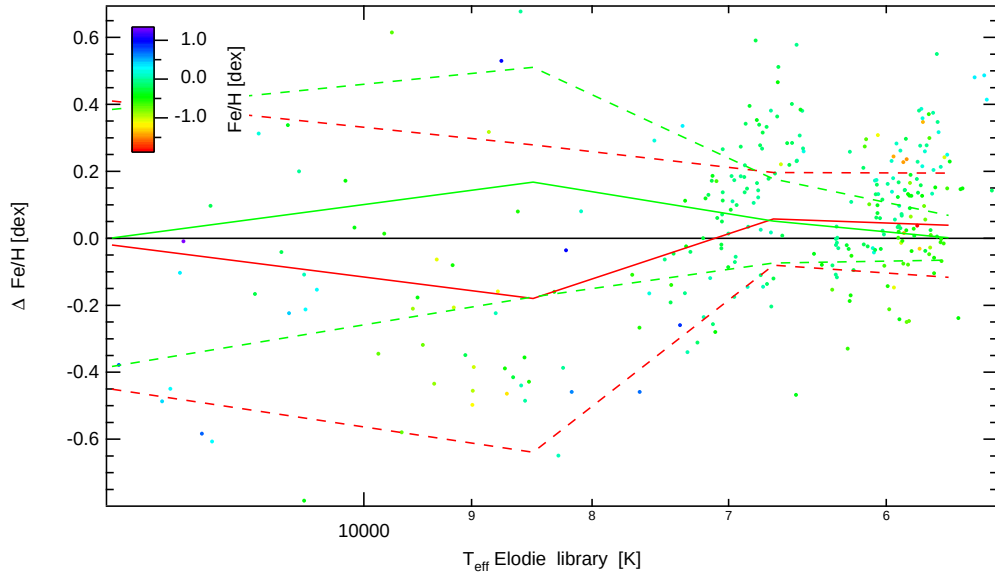


Figure 4.49: Same as Figure 4.46 but for metallicity.

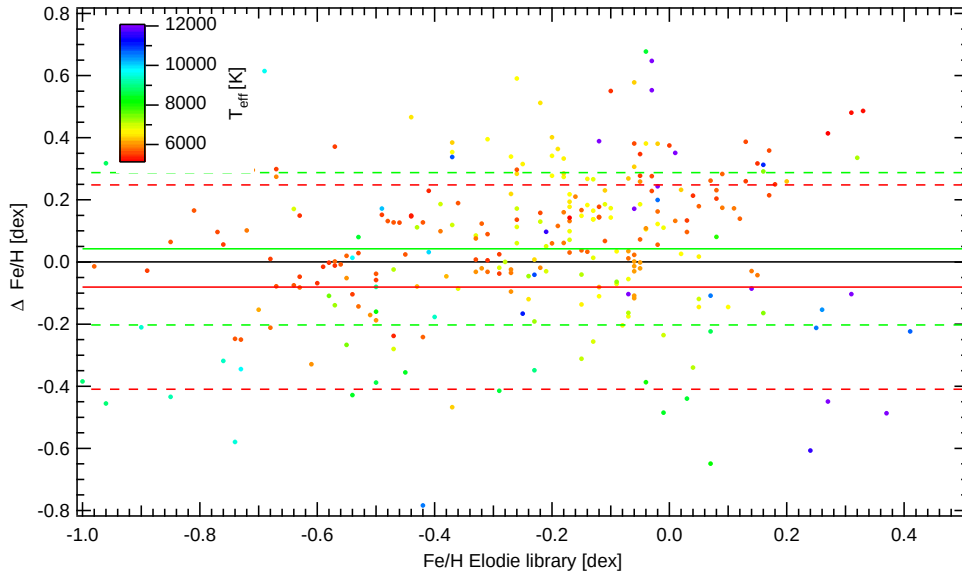


Figure 4.50: Same as Figure 4.46 but for metallicity.

F and G stars increases therefore towards hotter stars to around $\pm 0.4 \text{dex}$. But again the computed values are still within the error derived from the Elodie catalogue. In Figure 4.50 the errors are plotted in relation to the iron abundance. The offset and standard deviations plotted are again an average of the entire temperature range. The color-coding in the plots shows the above mentioned dependence of the error with the surface temperature but no obvious trend due to the iron abundance. Stars in the range of 8000K are underestimated in terms of their iron abundance and overestimated in their metallicity.

Chapter 5

Fundamental Parameters of IRa1, LRa1 and LRa2 stars

5.1 Observations

As the stars observed by CoRoT are all faint objects (12 - 16 mag), no values for their fundamental parameters are available from the literature. Four types of data (Table 5.1) were used for the fundamental parameter determination. All observations were carried out within cooperations during the CoRoT ground based follow up in which I was involved.

Table 5.1: Observations used for the fundamental parameter determination. The comment denotes the feature used to determine the stellar fundamental parameters.

Site	Size	Instrument	# of stars	R	S/N	comment
ESO Paranal	8m	Flames (Giraffe)	133	8600	200	H α
AAO Coonabarabran	4m	AAOmega (2dF)	11982	1400	30-200	H α - H ϵ
OSN Granada	1.5m	CCD	1780	-	-	H β
INT La Palma	2.5m	CCD camera	9872	-	-	uvby
USNO A2	-	CCD camera	all	-	-	VBRI

1. 9872 Strömgren *uvby* photometry taken with the 2.5m Isaac Newton Telescope (INT) at the Observatorio del Roque de los Muchachos, La Palma, Spain, with additional 1780 $H\beta$ measurements from the 1.5m telescope at the Observatorio de Sierra Nevada (OSN), Spain. The *ubvy* photometry was led by Katrien Uytterhoeven as PI and myself as one of the Co-Is at the INT during winter of 2007. The $H\beta$ observations were done in collaboration with Pedro Amado as PI and myself as Co-I at the OSN in Granada, Spain in winter of 2009.
2. Johnson *BVRI* photometry for all stars observed during IRa1, LRa1 and LRa2 taken from the USNO A2 catalogue.
3. 133 ESO VTL Flames/Giraffe spectra in LR2 (wavelength 3964-4567Å) and LR6 (6438-7184Å) modes with intermediate resolutions of $R=6400$ and 8600 . The observations were led by Coralie Neiner as PI and myself as one of the Co-Is during winter of 2008 and carried out at the ESO VLT in Chile.
4. 11982 classification spectra based on observations carried out at the Anglo-Australian observatory (AAO) taken with the AAOmega multi object spectrograph by Eike Guenther during winter of 2008. The resolution is $R=1400$ and the wavelength range 3700 to 9000Å.

In conclusion, about 12000 spectra and 10000 photometric measurements had to be treated for this project.

5.2 Strömgren Photometry

As shown in Table 5.1 Strömgren *uvby* photometry was available for 9872 stars with additional $H\beta$ photometry for 1780 stars.

For stars with full *uvby* $H\beta$ photometry the IDL program TempLogG 1.7 (Kaiser 2006), based on the Fortran program "uvbybeta" (Napiwotzki et al. 1993) but extended with error propagation and iterative spectral type estimation was used to derive relevant fundamental parameters like T_{eff} , $\log g$, M_v , $[\text{Fe}/\text{H}]$ etc. For stars without $H\beta$ photometry different approaches were used to tackle the problem of the evidently strong interstellar reddening of the relatively faint CoRoT stars.

The Strömgren system has the two parameters c_1 and m_1 which are defined as:

$$\begin{aligned} c_1 &= u - 2v + b \\ m_1 &= v - 2b + y \end{aligned} \tag{5.1}$$

with c_1 as a measure of the Balmer discontinuity which is a temperature indicator for hot stars and luminosity indicator for cooler stars and m_1 as a metallicity indicator. As these parameters are not independent of interstellar extinction they can be corrected using a standard law of reddening:

$$\begin{aligned} [m_1] &= m_1 + 0.32(b - y) \\ [c_1] &= c_1 - 0.20(b - y) \end{aligned} \tag{5.2}$$

These "reddening free" parameters $[c_1]$ (Philip & Egret 1980) and $[m_1]$ (Strömgren 1966) can be used as temperature or surface gravity indicators. Figure 5.1 and 5.2 show for all 9872 stars with Strömgren observations the Strömgren colors c_1 vs. $(b - y)$ and m_1 vs. $(b - y)$ respectively. The red band indicates the position of standard stars with luminosity class V according to Strömgren 1966. The position of some spectral types is also indicated. It is obvious that the observations of these faint CoRoT stars suffer from heavy interstellar reddening. Figure 5.3 shows the reddening free parameters $[c_1]$ and $[m_1]$ (assuming an equal reddening per distance of all stars in the field). The red band shows again the position of main sequence

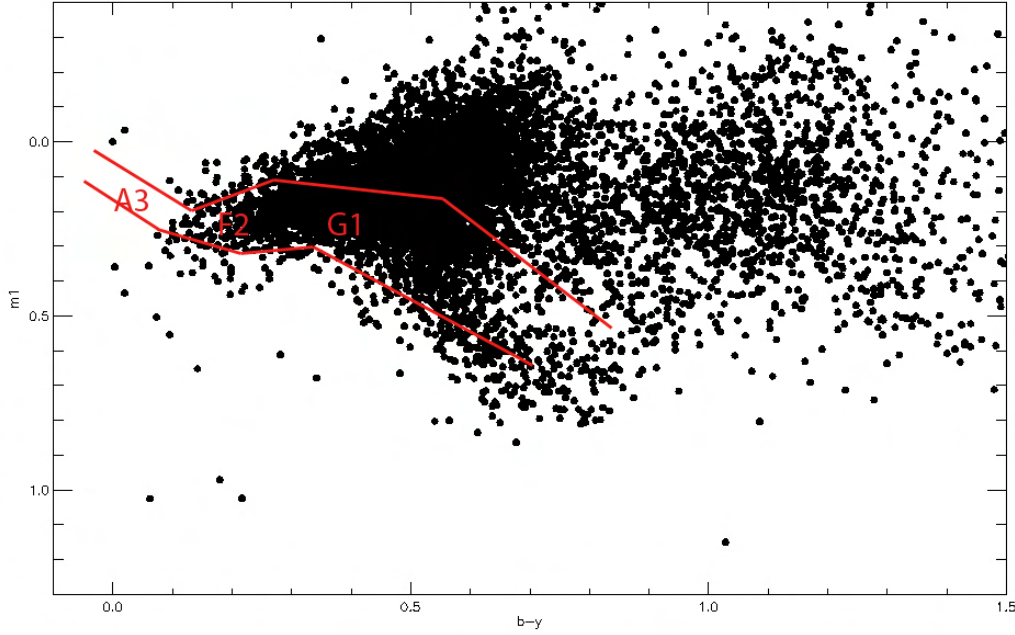


Figure 5.1: Strömgren m_1 vs. $(b - y)$ for all 9872 stars. The red band indicates the position of standard luminosity class V stars (Strömgren 1966).

dwarf stars. This illustrates the problem with assuming a standard reddening for very faint stars like in the case of CoRoT which leads via standard calibrations to wrong fundamental parameters in the end.

One possibility to tackle this problem is to use the $H\beta$ index. It is reddening free as it consists of the differential measurement of two filters centered on the $H\beta$ line:

$$\begin{aligned} \beta_{\text{narrow}} &= 4858\text{\AA} \pm 29\text{\AA} \\ \beta_{\text{wide}} &= 4850\text{\AA} \pm 129\text{\AA} \end{aligned} \tag{5.3}$$

For stars with Strömgren photometry but no $H\beta$ measurement the temperature was first derived from medium resolution ESO spectroscopy (see section 5.4) if available. Using $H\beta$ as a free parameter together with the observed $uvby$ photometry and the temperature from spectroscopy it was then possible to find the one value for $H\beta$ that gives via the photometric calibration (including a standard dereddening calibration) the already known temperature derived from spectroscopy.

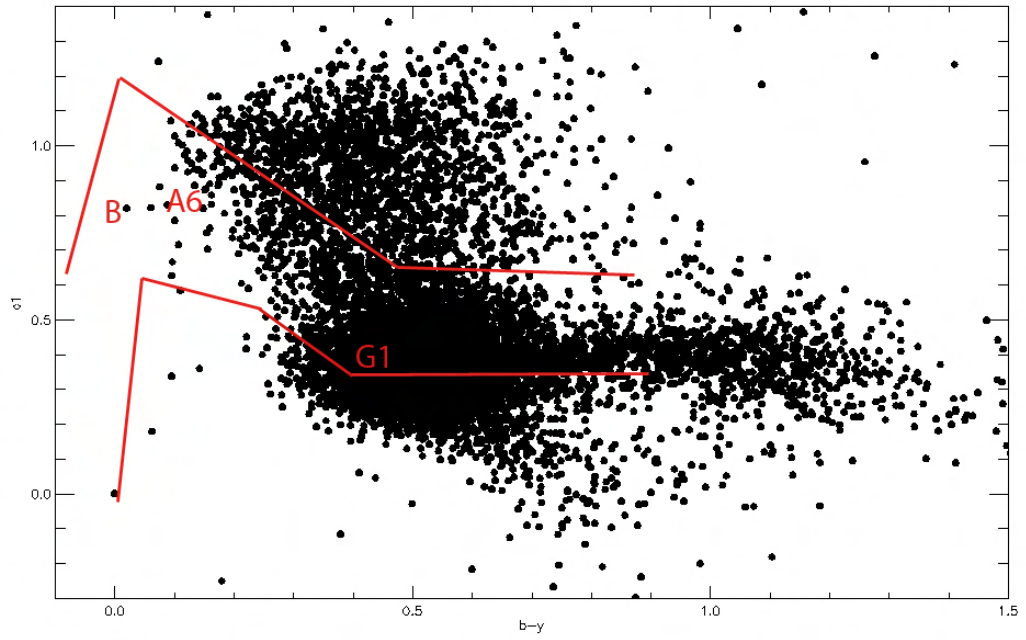


Figure 5.2: Same as 5.1 but for Strömgren c_1 vs. the $(b - y)$.

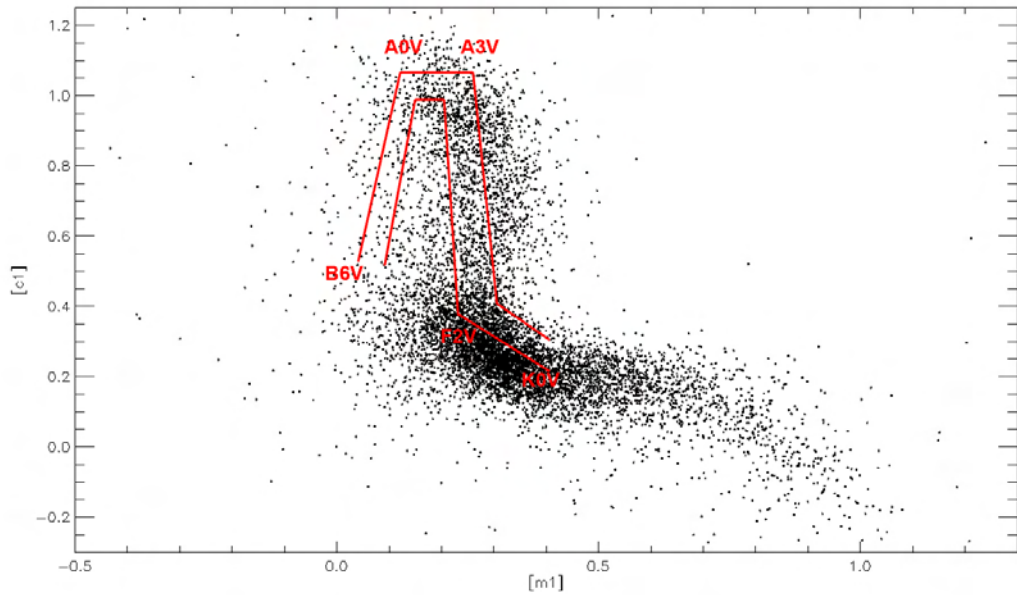


Figure 5.3: Strömgren $[c_1]$ vs. $[m_1]$. The red band indicates again the position of standard luminosity class V stars (Strömgren 1966). The strong non linear effects on reddening for the faint CoRoT stars are clearly visible.

Figure 5.4 illustrates this process. The black line in the upper panel shows for the measured *uvby* photometry of the star CoID 102590462 all possible combinations of an assumed $H\beta$ (2.9 down to 2.6) versus the temperature derived via a Strömgren calibration (Napiwotzki 1993) for this *uvby* plus (assumed) $H\beta$ colors. The red line indicates the position of the spectroscopic temperature derived from the ESO spectrum. For all possible $H\beta$ values only a value for $H\beta$ of 2.845 will result via the Strömgren calibration in the expected spectroscopic temperature. Therefore this $H\beta$ was used for dereddening the *uvby* photometry and to derive the effective temperature of 7933K (consistent with the spectroscopic temperature) ± 171 K, a surface gravity of 3.46 dex ± 0.12 dex and a metallicity of 0.16dex ± 0.12 dex.

Figure 5.5 shows the HRD for all 499 stars from IRa1, LRa1 and LRa2 for which fundamental parameters could be derived from Strömgren photometry. The mean error bar is shown in black in the upper left corner. The dashed black line shows the location of the ZAMS (Crawford 1979). Table A.1 in Appendix A lists the CoRoT Identifier (CoID), B magnitude, V magnitude, $(b - y)_0$, m_0 , c_0 , $H\beta$, M_v , effective temperature, surface gravity, metallicity, spectral type and luminosity class for these stars.

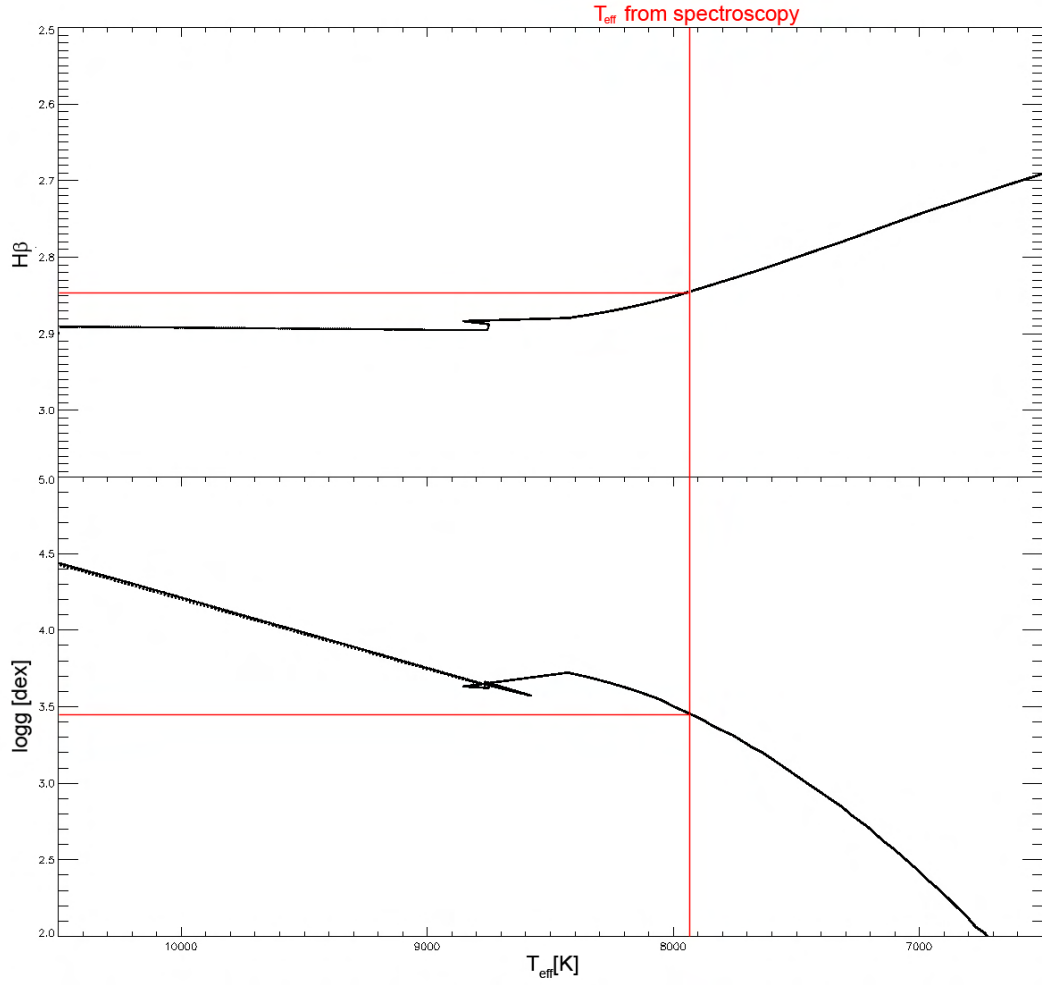


Figure 5.4: $H\beta$ as free parameter versus calculated T_{eff} for CoID 102590462 from observed $uvby$ photometry using the calibration of Napiwotzki 1993 (upper panel). Possible combinations for $\log g$ and T_{eff} for the star derived from the same $uvby$ photometry. The red line indicates the spectroscopic temperature derived from medium resolution ESO spectroscopy.

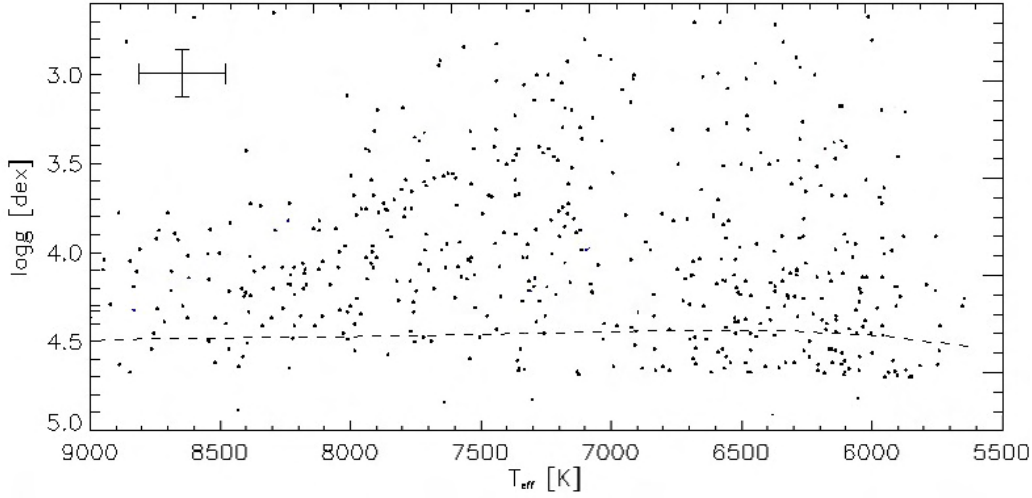


Figure 5.5: T_{eff} versus $\log g$ for 499 stars from IRa1, LRa1 and LRa2 derived from Strömgren photometry. The solid blue and red line show the theoretical borders of the δ Scuti and the dashed blue and red line show the theoretical borders of the γ Doradus instability strip. The dashed black line shows the location of the ZAMS (Crawford 1979) and the mean error bar is shown in black.

5.3 Johnson Photometry

Johnson *BVRI* photometry was available for all stars in the FITS file headers of each star observed by CoRoT. As the CoRoT target stars are all quite faint it can be assumed that they suffer from heavy reddening effects as already mentioned before. Nevertheless effective temperatures were calculated from Johnson photometry using TempLoG 1.7 with the calibration of Ramirez et al. 2005 in order to evaluate the effects of reddening and working on such faint stars in general. In section 5.7 the fundamental parameters from the different sources will be compared with each other and the differences will be analysed.

5.4 ESO Giraffe medium resolution spectra

For 133 stars medium resolution spectra ($R = 8600$) taken at the ESO VLT with the Giraffe instrument in the LR6 setting with Medusa were available. The spectral range of this setting is centered around $H\alpha$ (643.8 to 682.2 nm) and allows to

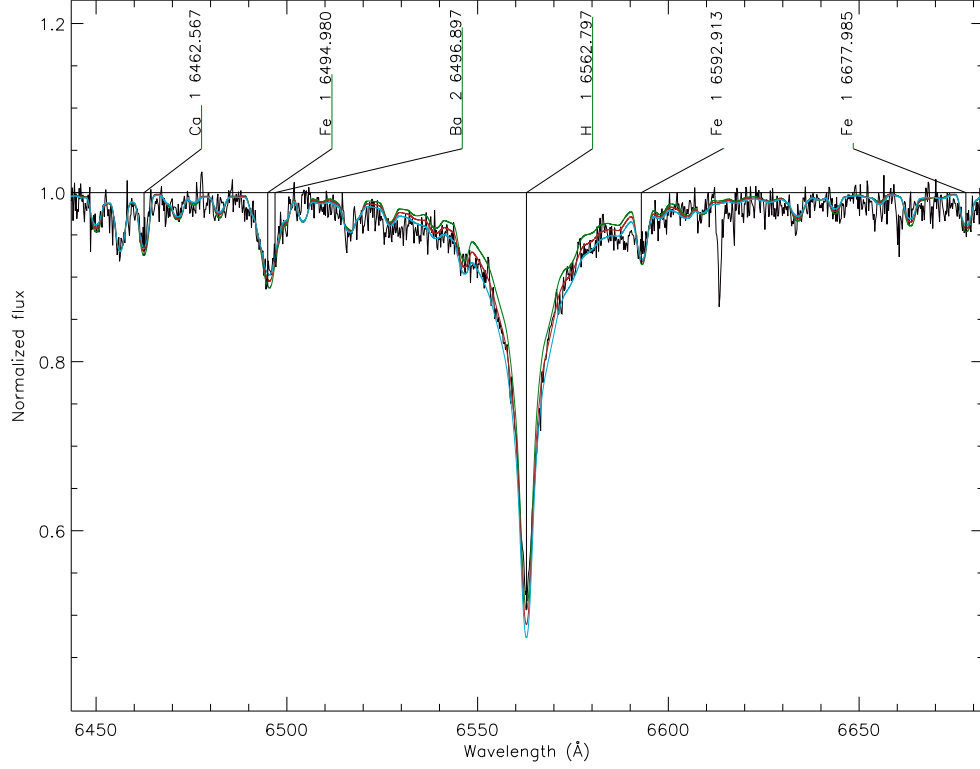


Figure 5.6: Example for the $H\alpha$ fitting of the ESO medium resolution spectra of CoID 0102794767 (black line). The best fitting synthetic spectrum is shown in red with a temperature of 6600K, a $v \sin i$ of 85 km s^{-1} and a radial velocity of -40 km s^{-1} . The blue and green line show synthetic spectra with 6400K and 6800K.

estimate the effective temperature via the fitting of its wings. This was done for all stars iteratively by hand with the interactive program RotateMG (Gruberbauer 2008). Figure 5.6 shows the fit for the star CoID 0102794767. The best fitting temperature is 6600K with a $v \sin i$ of 85 km s^{-1} and a radial velocity of -40 km s^{-1} . A value of 150K was assumed as the error of the fitted temperature. This value is a good upper estimate in this temperature range and reflects all uncertainties that are introduced by the use of model atmospheric codes and spectral synthesis programs (Friedrich Kupka, private communication). The temperatures derived from the 133 ESO spectra is used for the estimation of $H\beta$ for the $uvby$ photometry (see section 5.2).

5.5 AAO 2dF low resolution classification spectra

As part of the ground based follow up of the CoRoT mission, stars from the IRa1, LRa and LRa2 were observed (PI Pedro Amado González) with the AAOmega multi object spectrograph which is mounted on the AAT (Anglo Australian Telescope) located at the Siding Spring Observatory in Coonabarabran, Australia. The big advantage of this instrument is that the field of view is 2 degrees which matches half of the field of view of CoRoT with 1.8x3.6 degrees quite well (Saunders et al. 2004 and Smith et al. 2011). The observations were carried out in two campaigns. The first one from the 13th to the 20th January 2008 and the second from the 28th December 2008 to the 4th January 2009. Due to weather conditions the first campaign was limited to only two nights, but the second made use of all 8 nights.

All spectra were treated with the algorithm described in Chapter 4. For 3975 spectra it was possible to find a converging solution and to extract fundamental parameters. Reasons for non converging solutions include a very low S/N (≤ 15), strong fringing effects of the spectrum (no normalization possible) and significant deviation of the elemental abundance pattern from solar. Table B.1 in Appendix B shows the results for all stars from IRa1, LRa1 and LRa2.

Figure 5.7 shows temperature versus surface gravity for 3975 stars from IRa1, LRa1 and LRa2 derived from AAO spectroscopy. The mean error bar is shown in black. The dashed black line shows the location of the ZAMS. The figure illustrates quite well that a selection bias is present in the sample of stars.

This can be explained by the fact that the initial purpose of the AAO ground based follow up, which was led by the Exo-planet community within CoRoT, was focused on late F and G stars in order to facilitate the planet finding goal of CoRoT. This leads in my case to an "overabundance" of γ Doradus stars and cool δ Scuti stars in my sample. This has to be kept in mind during the interpretation of the results in the last chapter of this thesis. The mean error bar shown in the plot is only an indicator for the quality of the data as individual errors of single stars can deviate quite a bit (up to 0.8 dex in $\log g$ and 2000K in temperature).

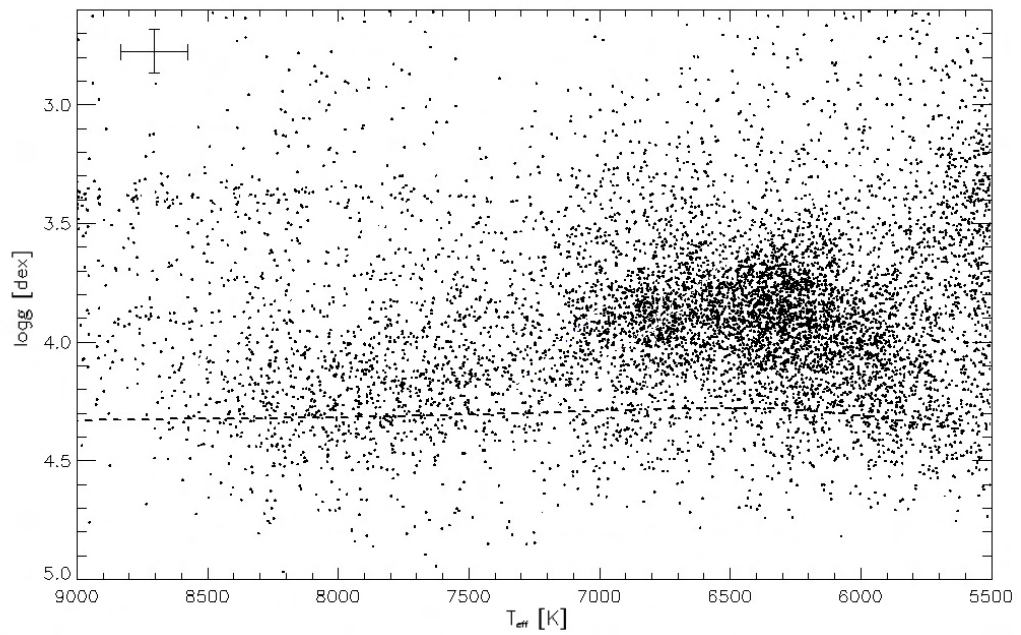


Figure 5.7: T_{eff} versus $\log g$ surface gravity for 3975 stars from IRa1, LRa1 and LRa2 derived from AAO spectroscopy. The mean error bar is shown in black. The dashed black line shows the location of the ZAMS (Crawford 1979).

5.6 The CoRoT exo-planet host-star test case

During the last years CoRoT has found several planets around stars which were studied in great detail. A lot of data was also gathered on the host stars of these planets, leading to very accurate temperatures, surface gravities and metallicities derived from high resolution spectroscopic observations. For three of these stars spectra were also available from the AAO observations. This gave an excellent opportunity to test the algorithm laid out in Chapter 4 and compare the results.

Figure 5.8 shows the automatically fitted AAO spectrum of CoID 0102890318 (CoRoT -1b). The observation is shown in black and the fitted synthetic spectrum in red. The green section was used to derive $\log g$ and the blue section to derive the effective temperature. Figure 5.9 shows the probability for the $H\beta$ fitting. The probability P is color coded. The maximum of the probability distribution is centered around 6000K and a $\log g$ of 3.8dex. The final fit to the spectra is 6010K with a $\log g$ of 4.02dex and a metallicity of -0.26dex.

Table 5.2 shows the fundamental parameters from various literature sources derived from high resolution HARPS spectra (see Guenther et al. 2010 for a review) in comparison to my results. For CoID 0102708694 the estimation of the metallicity is problematic because the synthetic models do not incorporate molecular lines. The results of my approach agrees with the values from the literature within the error bars quite well. Together with the results shown earlier for the Elodie catalogue it illustrates the quality of the fitting procedure.

Table 5.2: Comparison of fundamental parameters derived from high resolution ESO HARPS and low resolution AAO spectra.

CoRoT ID	Run	Instrument	T_{eff}	ΔT_{eff}	$\log g$	$\Delta \log g$	[M/H]	Δ [M/H]
Name			[K]	[K]	[dex]	[dex]	[dex]	[dex]
102890318	IRa1	HARPS	5950	150	4.25	0.30	-0.30	0.25
Exo-1b		AAO	6010	90	4.02	0.27	-0.26	0.24
102764809	LRa1	HARPS	6100	65	4.19	0.03	-0.25	0.06
Exo-5b		AAO	6030	60	3.92	0.26	-0.32	0.09
102708694	LRa1	HARPS	5250	60	4.47	0.05	+0.12	0.06
Exo-7b		AAO	5457	226	4.28	0.51	0.52	0.12

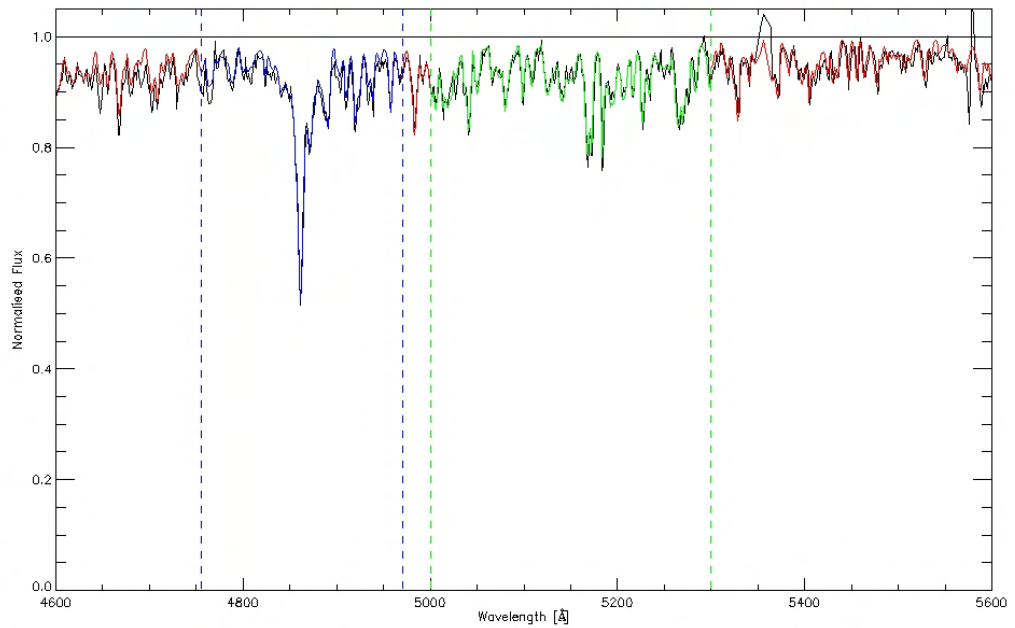


Figure 5.8: Fitted spectrum of CoID 0102890318 (CoRoT-1b). The black spectrum shows the observation and the red the best fitting synthetic spectrum. The blue part was used to derive $\log g$ and the green part to derive T_{eff} .

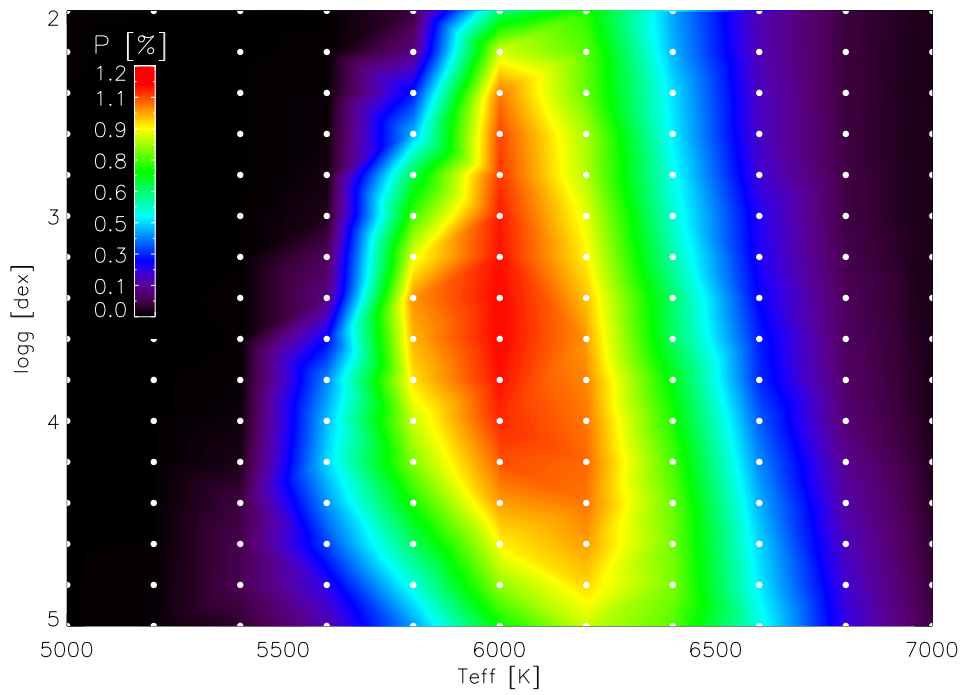


Figure 5.9: Example for the probability distribution of the automatic $H\beta$ fitting of the AA0 low resolution spectra of CoID 0102890318. The probability P is color coded.

5.7 Comparison of fundamental parameters derived by different observations

A good estimate of the fundamental parameters of all stars is of crucial importance for the following analysis, interpretation and modelling process. This section shows the degree of agreement between the fundamental parameters derived from Johnson and Strömgren photometry and low resolution AAO and medium resolution ESO Giraffe spectroscopy.

Figure 5.10 shows the difference in T_{eff} for all stars obtained by manual fitting the $H\alpha$ profile with the IDL program binmag2 (Kochukhov et al. 2007) for the ESO VLT Giraffe spectra and my semiautomatic fitting code written for the AAOmega spectra. The results of both methods agree within 2σ . One of many sources for the difference is that $H\beta$ is not only a temperature indicator as $H\alpha$ (Ryabchikova, private communication) but also an indicator for surface gravity. Therefore a small error in the estimated surface gravity leads to an error in the temperature estimation.

Figure 5.11 shows the difference in T_{eff} for all stars obtained with the semiautomatic fitting code written for the AAOmega spectra and the temperatures obtained by using the Strömgren calibration. The error bars are bigger for the $uvby\beta$ photometry but the agreement is within 2 to 3σ .

Figure 5.12 shows the difference in T_{eff} for all stars using a $(B - V)$ and a $(V - I)$ temperature calibration. The effect of the stronger interstellar reddening for the bluer wavelength and/or possibly an infrared excess is showing. Figure 5.13 shows that the temperatures obtained by the less interstellar reddening affected $(V - I)$ calibration are still showing too low temperatures in contrast to the spectroscopic results. Figure 5.14 finally shows the reddening effect as a function on the apparent magnitude V . For fainter stars the difference between spectroscopic and photometric estimated temperatures reaches almost an offset of 2000K. For stars up to 12th magnitude this effect is rather small. The mean offset between the spectroscopic and the photometric temperatures is 1100K, which is almost 50% of the total width of the classical instability strip. The cluster of stars to the far left in the plot have shown to be stars with very noisy AAO spectra, leading to a wrong, underestimated temperature.

Figure 5.15 shows the difference in T_{eff} for the fitting of the $H\beta$ and $H\alpha$ profiles

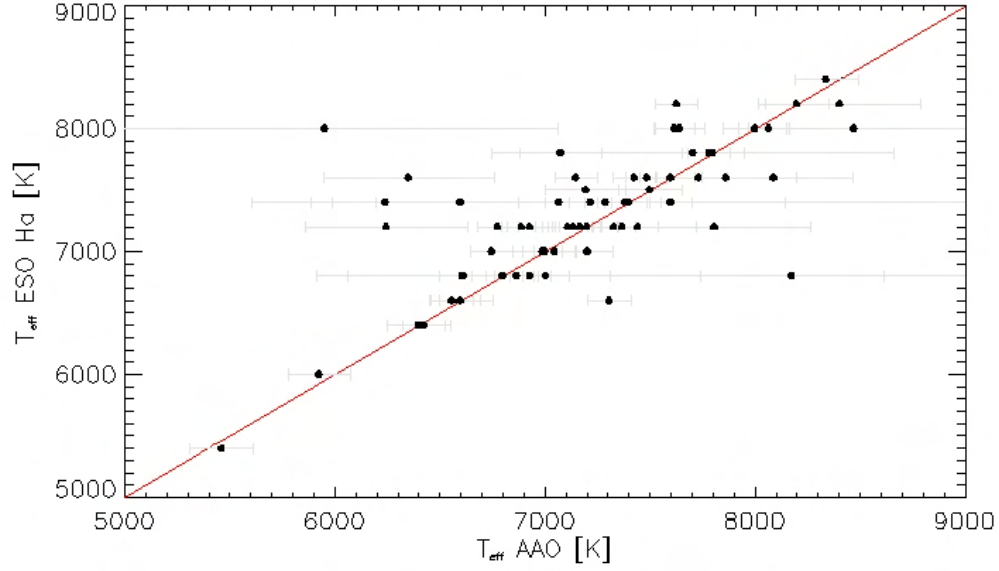


Figure 5.10: Comparison of T_{eff} obtained from ESO VLT Giraffe and AAOmega spectra.

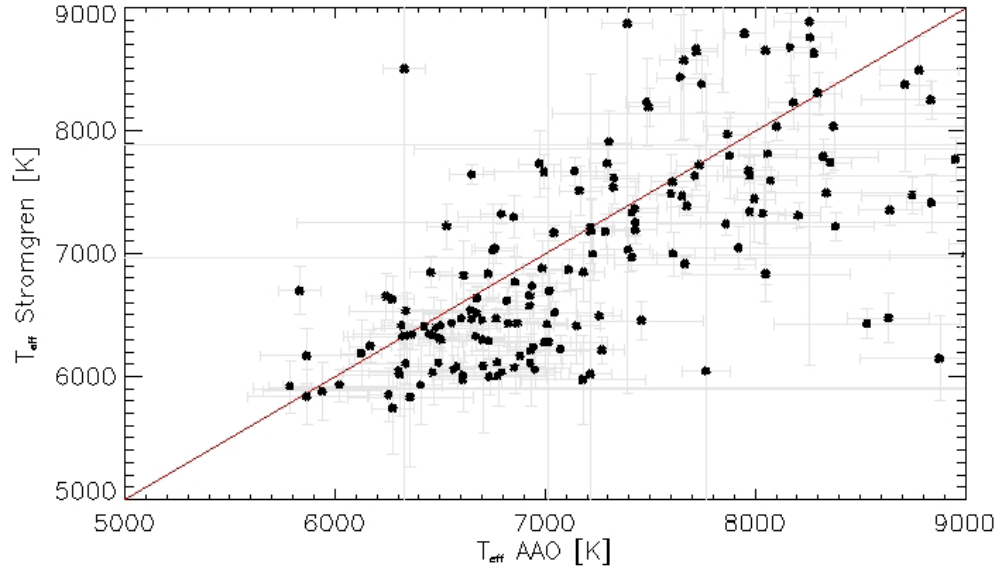


Figure 5.11: Comparison of T_{eff} obtained from $uvby\beta$ photometry and AAOmega spectra.

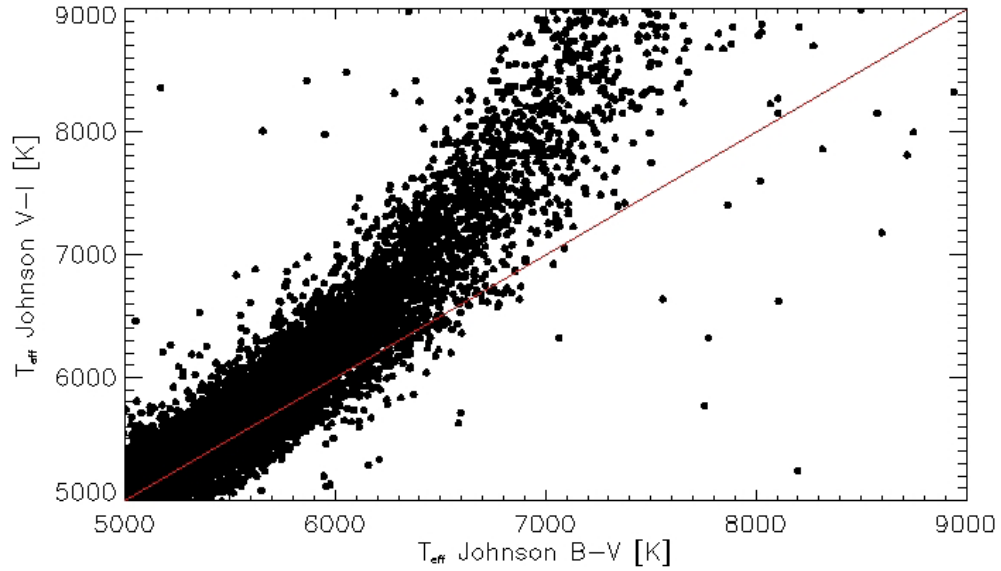


Figure 5.12: Comparison of T_{eff} obtained from Johnson photometry using $(B - V)$ and $(V - I)$ calibration.

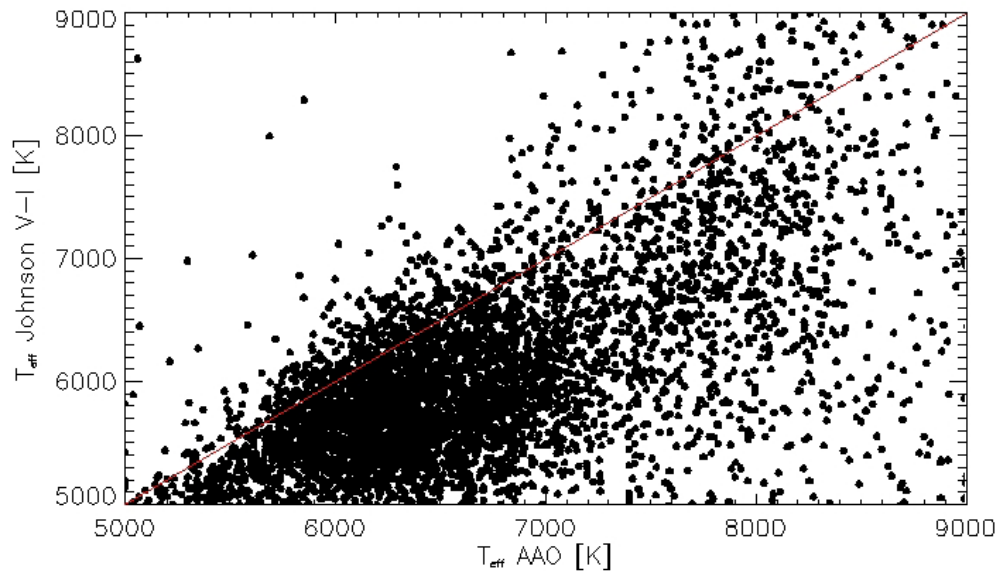


Figure 5.13: Comparison of T_{eff} obtained from Johnson photometry using $(V - I)$ and AAOmega spectroscopy.

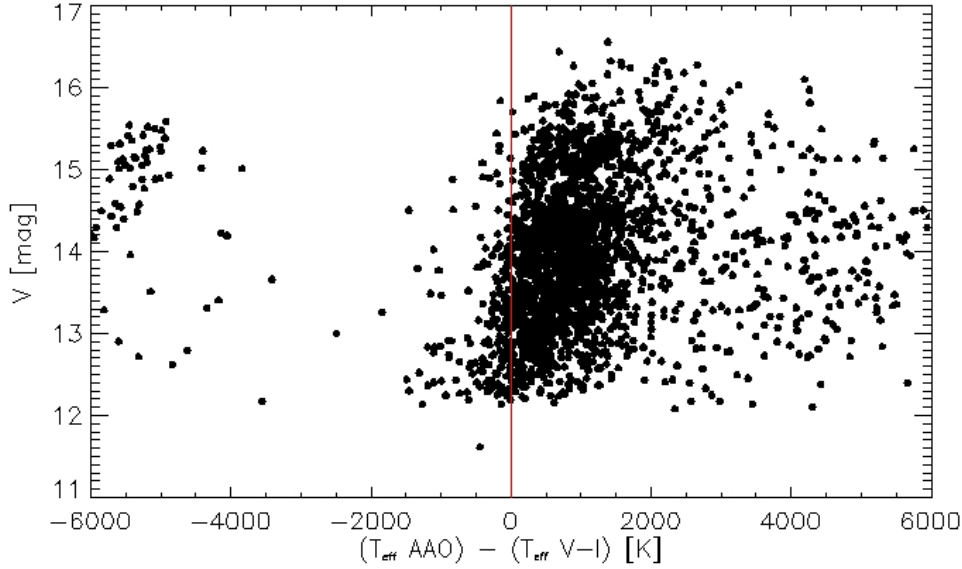


Figure 5.14: Comparison of T_{eff} obtained from Johnson photometry using $(V - I)$ and AAOmega spectroscopy as a function of the apparent magnitude V .

of a small random sub-sample the AAOmega spectra. The agreement is within 1σ or better. Only in cases of poor S/N the difference is significantly bigger due to problems with the automatic continuum normalization. The temperatures from the $H\alpha$ fitting were only used within the estimation process to detect outliers.

Summarising the above it can be concluded that the use of broad band photometry for faint targets leads to very large errors in the fundamental parameters. Even with the use of a near infrared filter the mean error is still larger than 1000K because the strong reddening effects. The situation improves with the use of narrow band photometry in combination with a reddening free color that can be used for dereddening. Unfortunately these requirements lead to very long exposure times due to the faintness of the stars which is unfeasible without the use of a wide field CCD or multiband photometers considering the large number of targets to be investigated. The use of medium or large resolution spectra is, as expected, the best choice, but again not feasible for thousands of stars except if multiobject fibre fed spectrographs would be available.

As shown, the best choice for large sets of faint stars is the use of low resolution

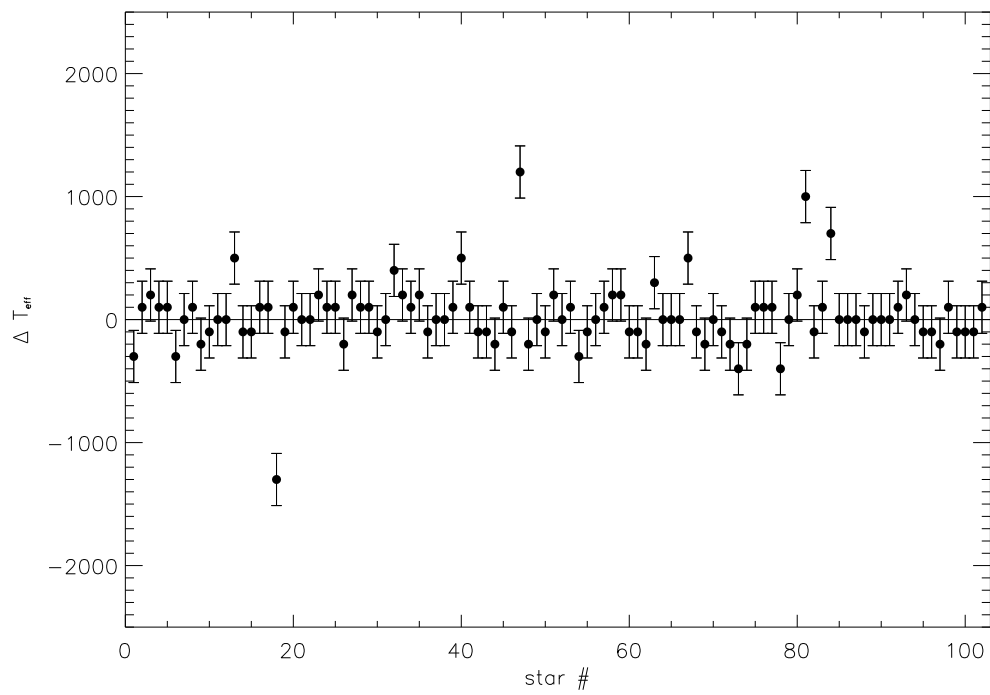


Figure 5.15: Difference in T_{eff} obtained from AAOmega spectra by fitting the $\text{H}\alpha$ and $\text{H}\beta$ lines.

multi fibre fed spectrographs. They can be employed at medium sized observatories and manage to deliver the required accuracy of the fundamental parameters in a time frame for which it is feasible to get observation time granted.

Chapter 6

Observation versus Theory

Using the results from the frequency analysis from chapter 3 and the fundamental parameters derived in chapter 5 it is now possible to compare them to theoretical predictions for δ Scuti, γ Doradus and hybrid stars. From the fundamental parameters only the ones derived from AAO spectroscopy have been used, as all stars in question have spectra.

6.1 Instability domains

The first reported hybrid stars were found in or close to the overlapping region of the δ Scuti and the γ Doradus instability strips (IS). This is at first glance what one would expect for stars showing properties of both types. Hybrid stars show variability in the low frequency g-mode and in the high frequency p-mode regime. Lately more and more stars with hybrid behaviour are found in the hotter parts of the classical IS (e.g. Hareter 2012, Handler 2014, Rostopchina 2013 and Balona 2014).

Figure 6.1 shows the location of the δ Scuti (left panel) and γ Doradus stars (right panel) identified in this work in an HRD. The borders of the δ Scuti strip are taken from Pamyatnykh (2000) and the borders of the γ Doradus strip are taken from Dupret et al. (2004). The δ Scuti stars concentrate well inside their theoretical IS with only a handful of exceptions. Taking into account the limited accuracy of the fundamental parameters derived from the low resolution spectra the δ Scuti stars

are confined in the δ Scuti IS within the error bars. For the γ Doradus stars in the present sample the situation is somewhat different. They are quite well confined by the blue border of the γ Doradus IS but are stretching much more towards cooler temperatures than the red edge of their IS would suggest.

In Figure 6.2 the identified hybrid stars from the sample are shown in an HRD. They basically fill the whole δ Scuti IS and apart from a few outliers are in good agreement considering their error bars from the fundamental parameters. This result is also in good agreement with results obtained from Kepler data (Uytterhoeven et al. 2011) in the Kepler working group 10 (PI Katrien Uytterhoeven) in which I was involved too. This leads to the conclusion that there is no dedicated IS for hybrid stars and the fact that they share the same IS as the δ Scuti and γ Doradus stars is a strong hint that they are quite similar.

Figure 6.3 shows all three types in one plot without error bars. The green circles show the γ Doradus stars, the red circles the δ Scuti stars and the blue circles the hybrid stars. The instability domains of δ Scuti and γ Doradus are given by the red and blue solid lines. The size of the symbols is scaled with the logarithm of the dominant amplitude. The maximum amplitude of δ Scuti and γ Doradus stars is situated around 7000K. Figure 6.4 shows a HRD of a subsample of identified δ Scuti stars with Strömgren photometry from IRa01 in the $M_V - (b - y)_0$ plane. The frequency of the strongest peak is color coded and the symbol size is scaled to the amplitude. The black error bar indicates the mean error. It has to be considered that an additional calibration is needed to transform surface gravities for a given effective temperature to absolute magnitudes which introduces additional errors.

Theory explains the driving of g-modes in γ Doradus stars via the convective flux blocking mechanism as explained in Chapter 1. In this sense the treatment of the convection in the theoretical models becomes the most crucial part as it predicts the transition region in the star where the thermal relaxation time and the pulsation period are of the same order. In the case of γ Doradus stars this region is quite close to the bottom of the convective envelope of the stellar model which is responsible for driving the g-modes (Dupret et al. 2007). For hotter stars, like the hybrids identified in this work, the flux blocking mechanism unfortunately is not able to explain the existence of g-modes. For stars near the ZAMS which are hotter than the blue edge of the γ Doradus IS the outer convection zone is according to theory expected to

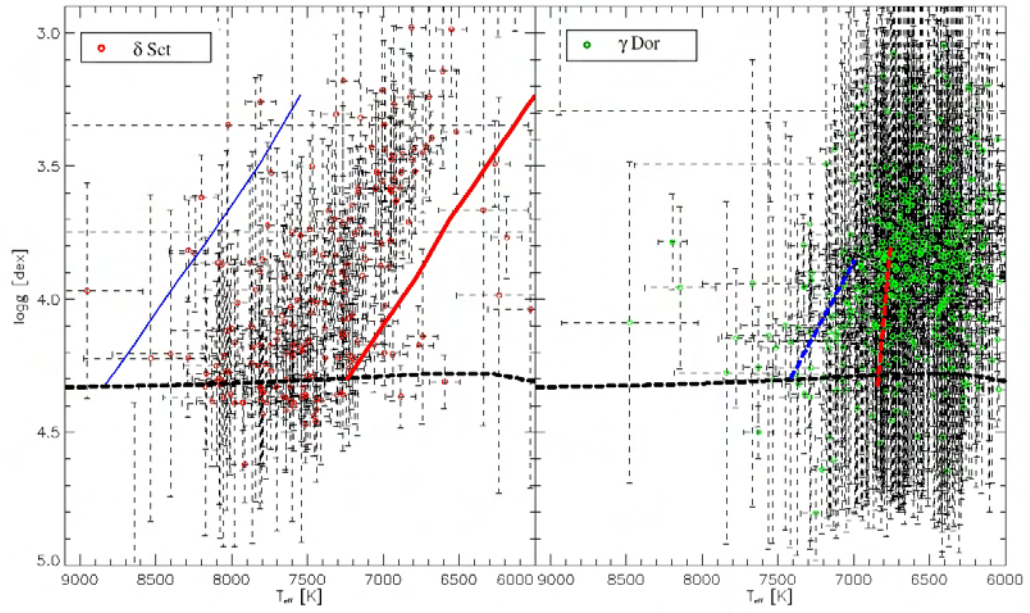


Figure 6.1: T_{eff} vs. $\log g$ diagram for the identified δ Scuti (left panel) and γ Doradus stars (right panel). The green circles show the γ Doradus stars and the red circles the δ Scuti stars. The instability domains of δ Scuti are given by the red and blue solid line and by red and blue dashed lines for the γ Doradus stars. The borders of the δ Scuti strip are taken from Pamyatnykh (2000) and the borders of the γ Doradus strip are taken from Dupret et al. (2004). The error bars of the fundamental parameters are shown in dashed error bars.

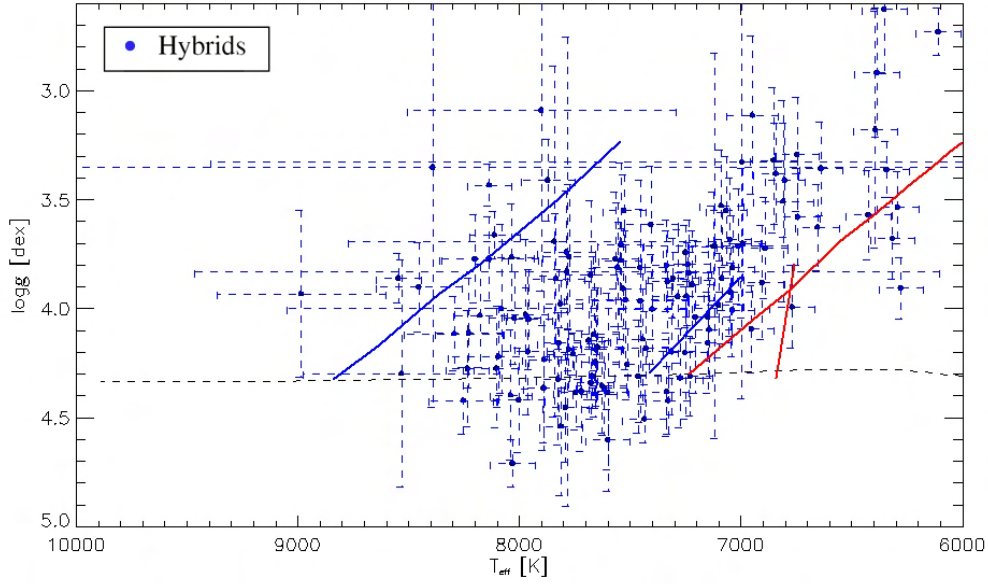


Figure 6.2: Same as 6.1 but for stars identified as hybrids.

be too shallow to sustain significant energy transport. This leads to stable (i.e. not pulsating) g-modes in these stars. One way to drive g-modes in hotter stars, like slowly pulsating B stars, is the κ mechanism working in the Fe ionisation zone (Cox et al. 1992) which assumed to be not working in γ Doradus stars. Shiode et al. (2013) used a simple parametrization for the convective excitation of gravity modes and predict that the convective cores of stars with $2M_{\odot}$ will excite observable surface brightness fluctuations while on the main sequence. If the excitation is dominated by an overshoot region having a width of $\leq 30\%$ of the pressure scale height at the top of the convective core, these stars will exhibit intrinsic photometric variability with amplitudes up to tens of micromagnitudes at frequencies of 0.4 to 0.8 c/d on, or just red of the solar metallicity ZAMS. These flux variations are largest for massive stars, i.e. with $5M_{\odot}$. As the stars evolve along the main sequence, the authors predict a strong increase in the flux variability, reaching hundreds of micromagnitudes at frequencies ≤ 0.8 c/d, along with the appearance of power at ever lower frequencies, down to 0.08 c/d at the TAMS.

As to the question of the existence of pure δ Scuti and γ Doradus stars which has been discussed in recent papers (Grigahcène et al. 2010 & Uytterhoeven 2013)

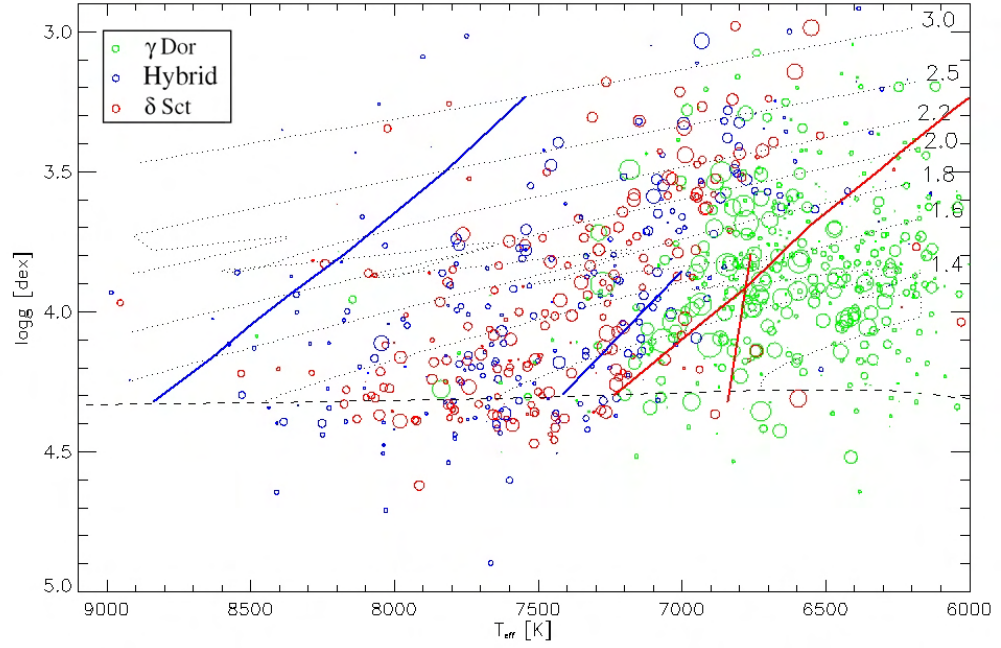


Figure 6.3: T_{eff} vs. $\log g$ diagram for the identified δ Scuti, γ Doradus and hybrid stars. The green circles show the γ Doradus stars, the red circles the δ Scuti stars and the blue cycle the hybrid stars. The instability domains of δ Scuti and γ Doradus stars are given by the red and blue solid lines. The general blue border of the δ Scuti strip is taken from Pamyatnykh (2000) and the observational red border from Handler (2002). The borders of the γ Doradus strip are taken from Dupret et al. (2004). The size of the symbols is scaled with the logarithm of the dominant amplitude. Furthermore the Zero-Age Main Sequence (ZAMS) (Crawford 1979) and a few post main sequence evolutionary tracks for the indicated values of $M/M_{\odot}$ are shown in black.

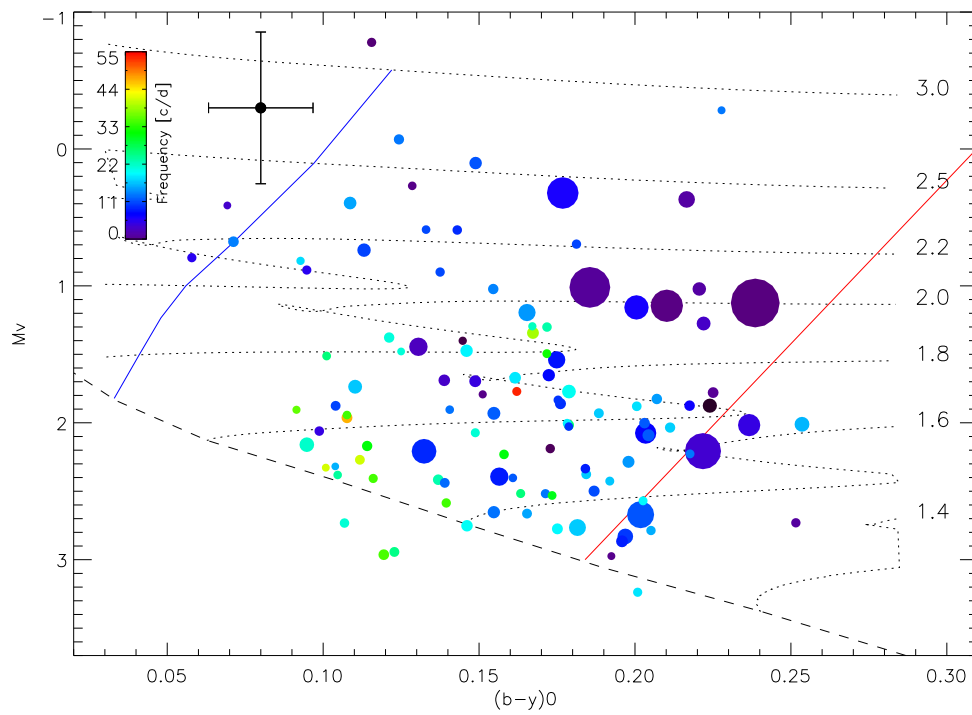


Figure 6.4: HRD of a subsample of identified δ Scuti stars with Strömgren photometry from IRa01 in the $M_v - (b - y)_0$ plane. The frequency of the strongest peak is color coded and the symbol size is scaled to the amplitude.

the answer from my work is very clear. Down to the accuracy of CoRoT for the Exo-field CCD observations of around 25ppm the existence of δ Scuti stars without variability in the g-mode frequency regime and of γ Doradus stars without variability in the p-mode frequency regime has been shown in many cases. My findings are in this regard contrary to the findings of Balona 2014 in which he states that all δ Scuti stars are essentially γ Doradus - δ Scuti hybrid stars.

6.2 The period vs. temperature relation

Figure 6.6 shows the period-temperature relation for the identified γ Doradus and hybrid stars. The period in the diagram corresponds to the one with the highest amplitude in the spectrum. The error bars illustrate the quite big differences in accuracy for brighter and fainter stars in the sample. The error in period from the frequency analysis is too small to be visible. No clear relation can be seen at first glance for either the γ Doradus nor the hybrid stars. Figure 6.6 shows the $\log T_{\text{eff}}$ vs. $\log P$ for the identified γ Doradus, δ Scuti and hybrid stars. The value for the period is the mean of the three strongest peaks in the amplitude spectrum. The green circles show the γ Doradus stars, the red circles the δ Scuti stars, the blue circles the highest hybrid g-mode and blue squares the highest hybrid p-mode. The solid lines are linear regressions of the samples and the dashed lines indicate the corresponding 95% confidence intervals. The size of the symbols is scaled to the logarithm of the dominant amplitude.

The fitting reveals a small correlation for the $\log T_{\text{eff}}$ - $\log P$ relation for the γ Doradus, δ Scuti stars and the p- and g-modes detected in hybrids (equation 6.2 to 6.2). For the g-modes of γ Doradus and hybrid stars it shows that in general the amplitudes for hybrid stars are smaller than for pure γ Doradus stars and the gradient of the relation is a little steeper for γ Doradus stars. For the δ Scuti and the p-modes of the hybrid stars the amplitudes are quite similar and the gradient of the slope is almost the same with just a small offset towards longer periods for the hybrid stars. This could indicate a difference in the abundance composition of δ Scuti and hybrid stars. For hybrid stars the amplitudes of the p-modes are in general higher than the amplitudes for g-modes. Breger and Bregman showed almost 40 years ago that for the hotter δ Scuti stars the higher overtones of radial

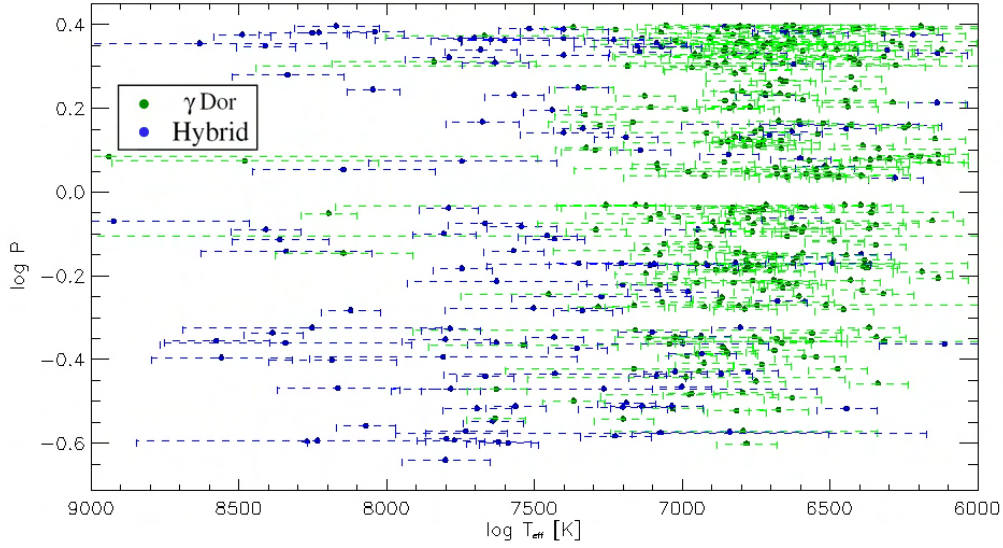


Figure 6.5: T_{eff} vs. $\log P$ for the identified γ Doradus and hybrid stars. The green circles show the γ Doradus stars and the blue circles the hybrid stars.

fundamental are excited (Breger and Bregman 1975). The more evolved δ Scuti stars in my analysis show higher amplitudes than for those near the ZAMS. Hotter δ Scuti stars show in general higher frequencies. This can be explained by the fact that the opacity bump is located relatively close to the surface of the star. Therefore the thermal relaxation time is shorter which leads to the excitation of modes with higher frequencies.

For γ Doradus stars it is the bottom of the convective envelope which gets shallower in hotter stars, again leading to modes with higher frequencies.

The linear regression shown in figure 6.6 for γ Doradus, δ Scuti stars and the hybrid g- and p-modes is given in by:

$$\gamma \text{ Dor} : \log(P) = -2,93 \cdot \log(T_{\text{eff}}) + 11.27 \quad (6.1)$$

$$g - \text{mode Hybrid} : \log(P) = -1.89 \cdot \log(T_{\text{eff}}) + 6.97 \quad (6.2)$$

$$\delta \text{ Sct} : \log(P) = -2.19 \cdot \log(T_{\text{eff}}) + 7.27 \quad (6.3)$$

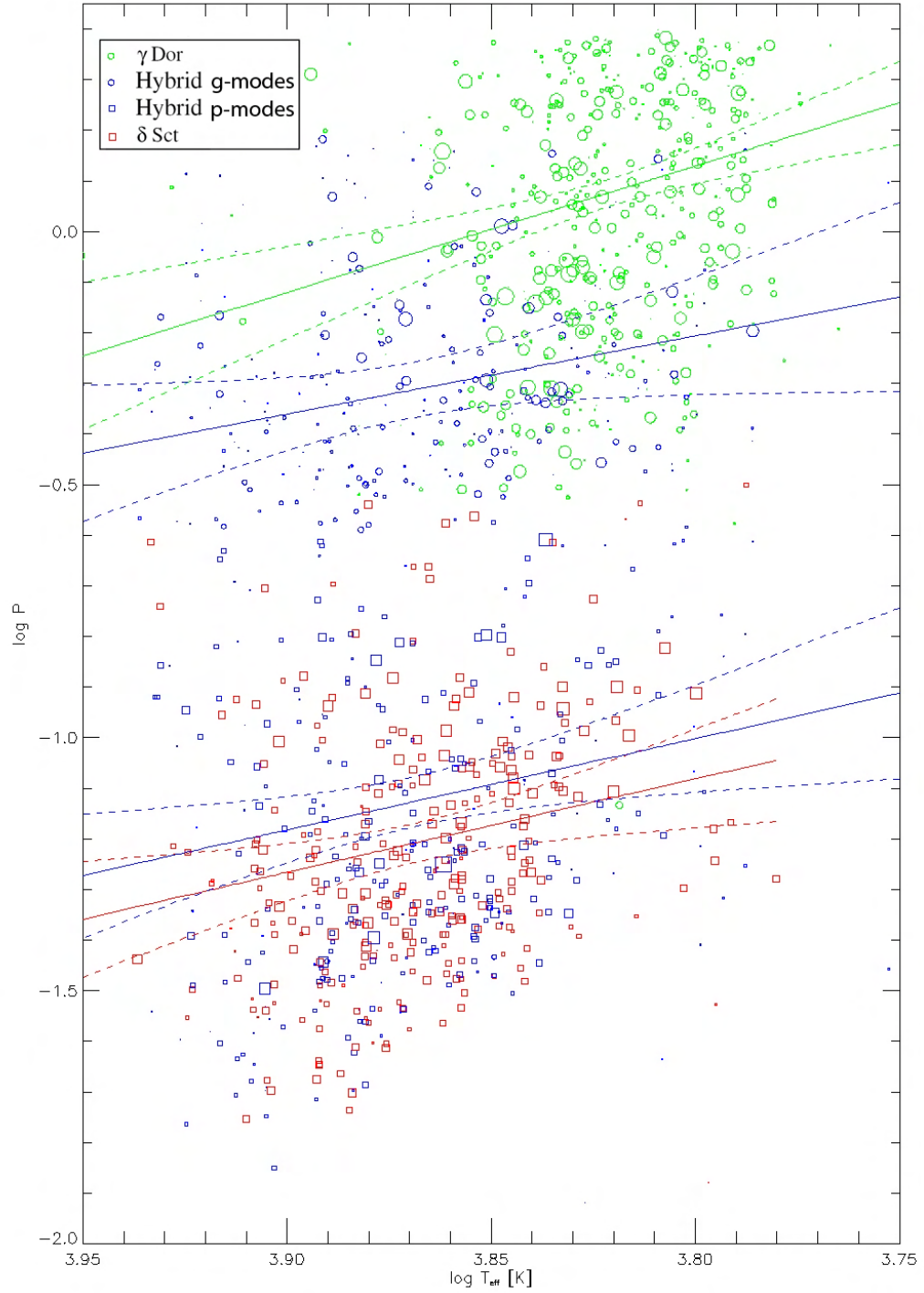


Figure 6.6: $\log T_{\text{eff}}$ vs. $\log P$ for the identified γ Doradus, δ Scuti and hybrid stars. The green circles show the γ Doradus stars, the red circles the δ Scuti stars, the blue circles the highest hybrid g-mode and blue squares the highest hybrid p-mode. The solid lines are linear regressions of the samples and the dashed lines indicate the corresponding 95% confidence intervals. The size of the symbols is scaled with the logarithm of the dominant amplitude.

$$p - mode Hybrid : \log(P) = -2.19 \cdot \log(T_{eff}) + 7.32 \quad (6.4)$$

There is no visible correlation for the δ Scuti stars and the p-mode hybrid pulsation is in total not that conclusive which can be explained by the unknown mode selection mechanism in those stars. Newer results obtained from Kepler data show that the most dominant mode is in fact not the radial fundamental or one of its overtones.

For the γ Doradus and the g-mode hybrid pulsation it is in many cases not that simple to separate the long period intrinsic variability from the residual low frequency instrumental signal. The selected threshold of 0.4 c/d might lead for low amplitude stars to a wrong selection of the strongest peak in the g-mode regime (see chapter 3).

6.3 Gravity modes

For the comparison of identified g-mode pulsation with theory, a grid of model frequencies computed by A. Miglio and J. Montalbà was used. The frequencies were calculated using the CLES (Code Liègeois d'Evolution Stellaire) evolution code and the theoretical frequencies were computed using the oscillation code LOSC (Liège Oscillation Code) by Scuflaire et al. (2008).

The used model grid covers stars from 1.2 to 1.9 $M_{\odot}$ in steps of 0.1 $M_{\odot}$ with two different metallicities Z (0.01 and 0.02) and three different mixing length parameters (α_{MLT}) of 1.4, 1.7 and 2.0. Rotation was not taken into account for the models.

The IS of the γ Doradus stars depends heavily on the metallicity and on the used mixing length parameter and therefore on the treatment of convection of the model. For models with higher metallicity the IS is shifted towards cooler stars. For smaller mixing length parameter the effect of a shift to cooler temperatures is also evident. Furthermore with a change in α_{MLT} the IS gets narrower (for a detailed discussion of the input physics see Dupret et al. 2004). Figure 6.7 shows T_{eff} vs. $\log P$ for the identified γ Doradus stars. The green circles show the mean period of the three modes with the highest amplitude. The size of the symbols is scaled to the mean

amplitude. In the right panel the solid black line encloses models with $\alpha_{MLT}=2$, the red solid line models with $\alpha_{MLT}=1.7$ and the blue solid line models with $\alpha_{MLT}=1.4$ for $l=1$ and a metallicity of $Z=0.02$ (solar composition). In the left panel the dashed black line encloses models with $\alpha_{MLT}=2$, the red dashed line models with $\alpha_{MLT}=1.7$ and the blue dashed line models with $\alpha_{MLT}=1.4$ for $l=1$ and a metallicity of $Z=0.01$.

The γ Doradus stars are distributed in a temperature range from $\log T_{\text{eff}} = 3.78$ up to 3.87 and show, as discussed in section 6.2, almost no correlation with the period. The models with higher metallicity seem to fit better but the apparent better correlation in the left panel with the extension of the IS up to the stars with a $\log P$ of around 0.4 days is misleading. This is a result of the cut towards very low frequencies that was necessary to avoid mistaking instrument signal as g-mode pulsation (see Chapter 3). The same effect could suggest that the right panel in Figure 6.9 shows a better agreement in terms of the $\log P$ domain which is not the case. In general the models with a lower α fit the IS better.

Figure 6.8 and 6.10 show the situation for the hybrid stars. They do not fit in the IS as they are spread all over the temperature range of the δ Scuti IS. The amplitudes of the hybrid g-modes behave also differently than those of the γ Doradus stars. They are significantly smaller, including the small overlapping area of the γ Doradus and the δ Scuti IS. Additionally the mean amplitude of the three dominant g-modes gets smaller with temperature. This can only be explained by some fundamental difference in the atmospheric structure, as very special care was taken not to include stars with low frequency signal originating from binarity, instrumental noise or stellar rotation. One unlikely reason might be a very complex spotted surface structure which could not be excluded in my work.

According to non linear theory it is unfortunately not possible to predict the amplitudes of stellar pulsation. Looking at the theoretical γ Doradus models of Warner et al. (2003) it shows that the maximum growth rates lie at around 7000K (Figure 6.11). For the γ Doradus stars in my sample the maximum of the amplitudes agrees quite well with these predictions.

The decrease in amplitude with higher temperatures for the hybrid stars might be an indicator for low growth rates since the convective zone would become increasingly narrow for these hotter stars if they would still be able to drive g-modes. Up to now no theoretical explanation or prediction for these g-modes have been

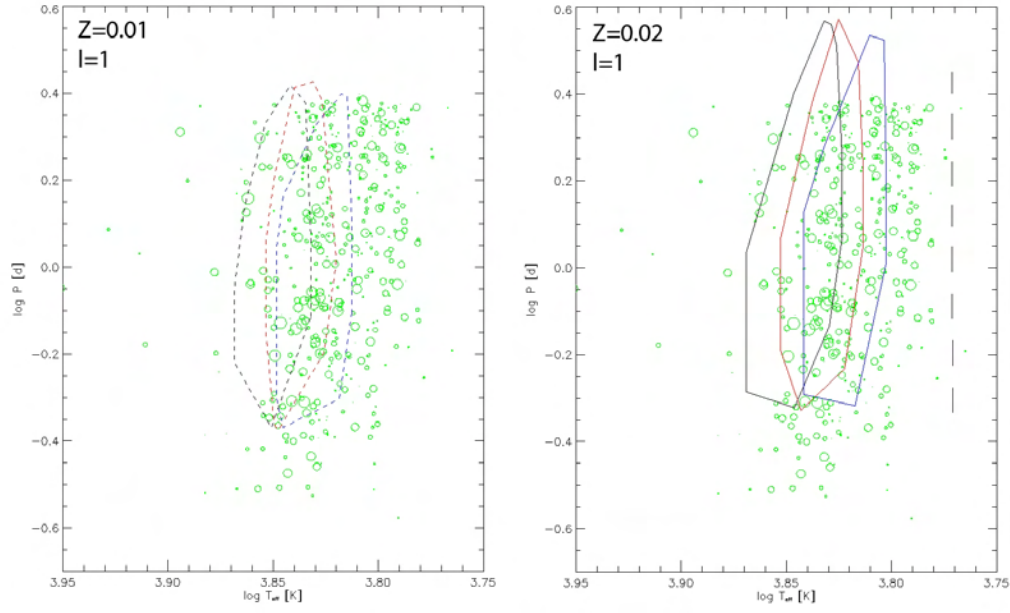


Figure 6.7: T_{eff} vs. $\log P$ for the identified γ Doradus stars. The green circles show the mean periods of the three modes with the highest amplitude. The size of the symbols is scaled to the mean amplitude. Right panel: The solid black line encloses models with $\alpha_{MLT}=2$, the red solid line models with $\alpha_{MLT}=1.7$ and the blue solid line models with $\alpha_{MLT}=1.4$ for $l=1$ and a metallicity of $Z=0.02$ (solar composition). The black dashed line indicates the cool border for an α_{MLT} of 1.0. Left panel: The dashed black line encloses models with $\alpha_{MLT}=2$, the red dashed line models with $\alpha_{MLT}=1.7$ and the blue dashed line models with $\alpha_{MLT}=1.4$ for $l=1$ and a metallicity of $Z=0.01$.

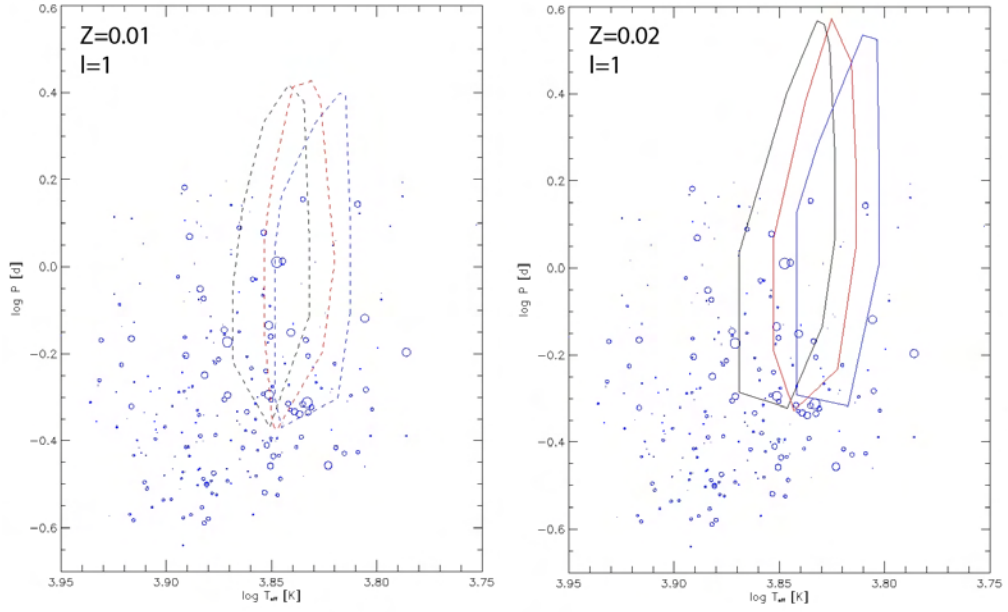
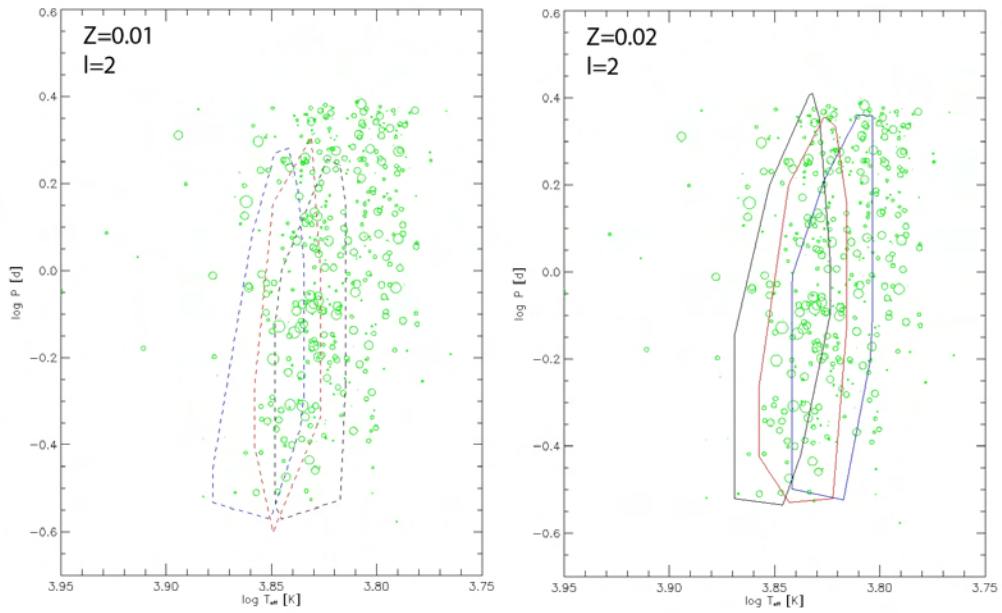


Figure 6.8: Same as Figure 6.7 but for the identified hybrid stars.

Figure 6.9: Same as Figure 6.7 but for $l=2$ modes.

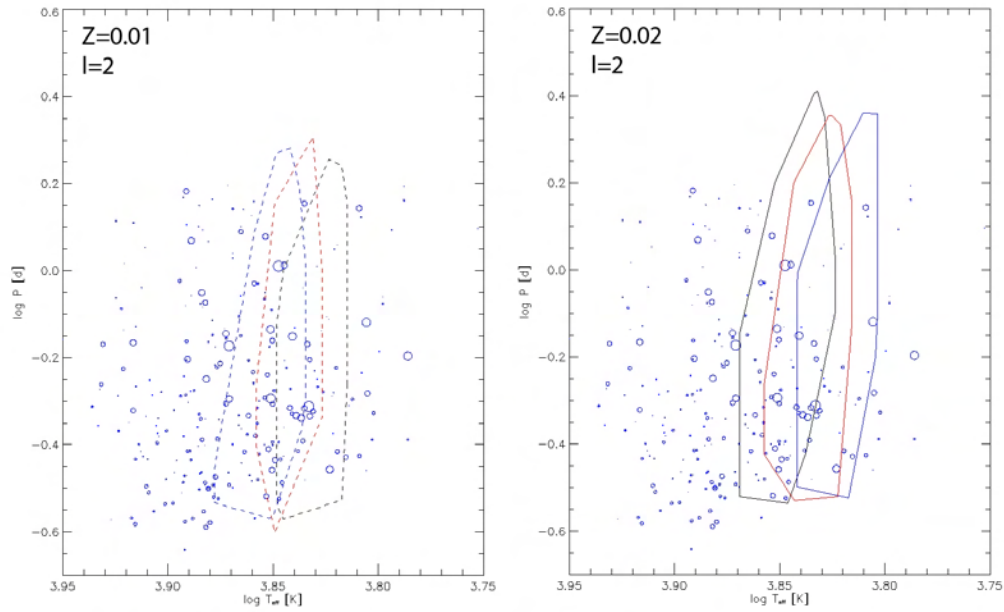


Figure 6.10: Same as Figure 6.8 but for $l=2$ modes.

made by theory.

The possible influence of rotation will be discussed in Chapter 6.5.

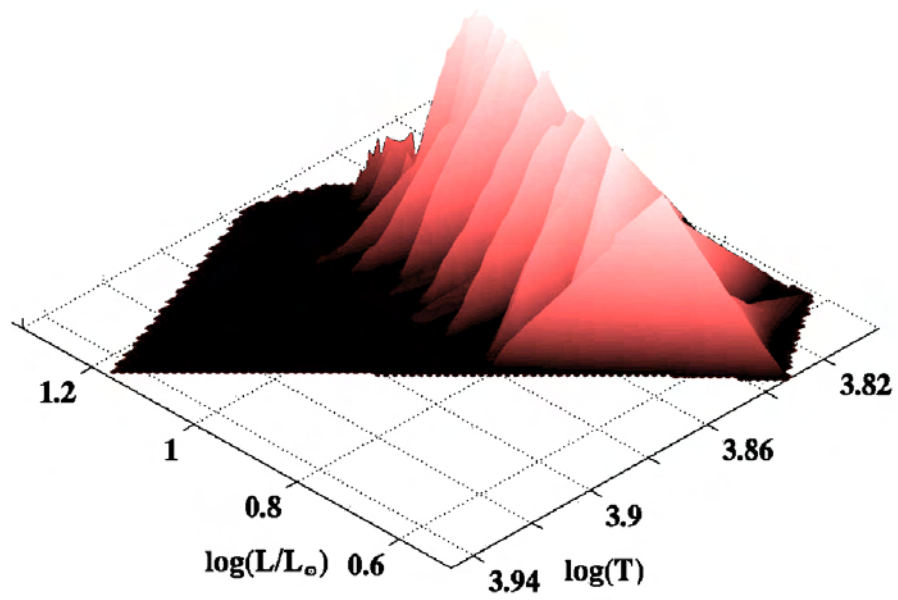


Figure 6.11: Growth rates of models taken from Warner et al. (2003) for their calculated γ Doradus instability strip for $l=1$ in the $T_{\text{eff}} - L$ plane. The logarithm of the growth rate is color coded.

6.4 Pressure modes

The p-modes in δ Scuti stars are driven by the κ mechanism in the HeII ionisation zone (see chapter 1). To compare the identified δ Scuti stars from my sample with theoretical computations a model grid from A. Pamyatnykh (private communication) was used. The grid contains frequencies for radial modes from $n=1$ to 10 with their corresponding stability parameter that indicates whether a mode is theoretically excited or not for stellar masses of 1.6 to 2.0 $M_{\odot}$ in 0.1 $M_{\odot}$ steps and for 2.0 to 2.4 $M_{\odot}$ in 0.2 $M_{\odot}$ steps for an α of 2.0. Figure 6.12 shows the frequency versus $\log T_{\text{eff}}$ for the δ Scuti models. The different masses are color coded and the symbol size corresponds to the stability parameter of all modes of one model.

Figure 6.13 shows the identified δ Scuti stars from the sample. The frequency corresponds to the mean of the three strongest peaks. The symbol size is scaled with the logarithm of amplitude of the strongest peak in the frequency spectrum. The maximum of the stability parameter from figure 6.12 are shown in light gray. In general the agreement between the models and the observations is good. Figure 6.14 shows the situation for the p-modes of the hybrid stars from the sample. Again the agreement is similar with the difference that the hybrids show lower amplitude p-modes than the δ Scuti stars. Furthermore they extend a bit further to cooler temperatures than the red border of classical IS. As the red border is basically defined by the extent of the surface convection zone of the star this could mean that for hybrid stars this outer convective envelope is still small enough that p-modes can be driven. For δ Scuti stars at the same T_{eff} and $\log g$ the envelope would already extend beyond the location of the second stage of helium ionization, thus no longer being able to drive p-modes.

As the stability properties of the oscillation modes are crucially affected by the convection dynamics, the return to stability of low-order p modes at the cool boundary of the classical instability strip is predictable only with the inclusion of convection dynamics in the stability analysis (e.g., Houdek et al. 1999, Houdek 2000, Xiong & Deng 2001, Dupret et al. 2005).

All these convection models need calibration for the mixing length parameter α . A decrease in α results in a significant shift of the cool boundary of the IS towards lower surface temperatures, whereas the blue edge of the instability strip is

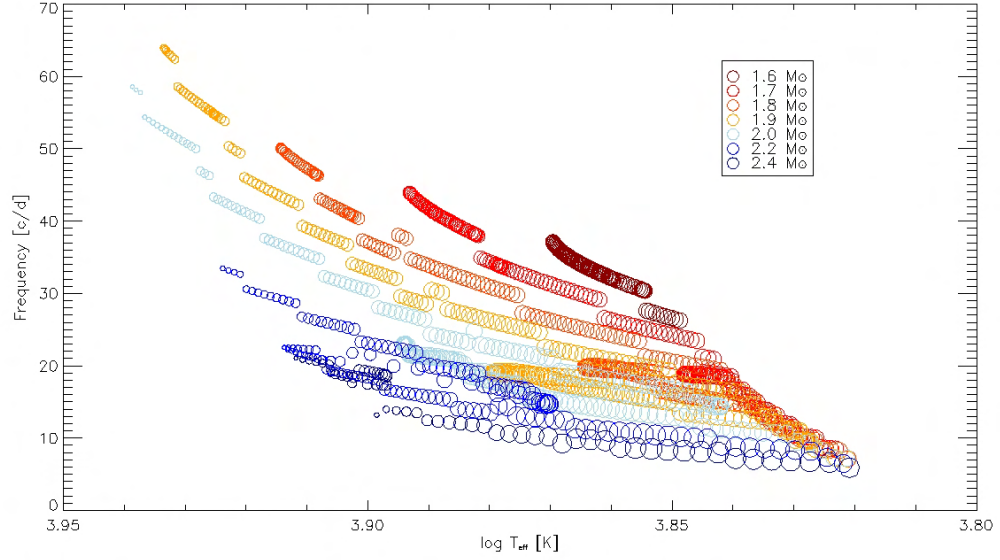


Figure 6.12: Frequency versus $\log T_{\text{eff}}$ for δ Scuti models with masses from 1.6 to $2.4 M_{\odot}$ and an α of 2.0 (A. Pamyatnykh, private communication). The symbol size corresponds to the maximum of the stability parameter of all modes of one model.

essentially unchanged.

The reason behind this effect is that a reduction of α diminishes the stabilizing effect of the turbulence on the pulsations. This is however additionally affected by the increasing efficiency of the surface convection with decreasing surface temperature of the star (Houdek 2008). The observed location of the cool edge of the IS can therefore be used to improve α in δ Scuti and possibly also hybrid stars. Therefore, to improve the models and include hybrid stars, the determined location of the observational red border from this work is of great importance. The observation it shows that α is lower than 2.0 for δ Scuti stars and even lower for hybrid stars.

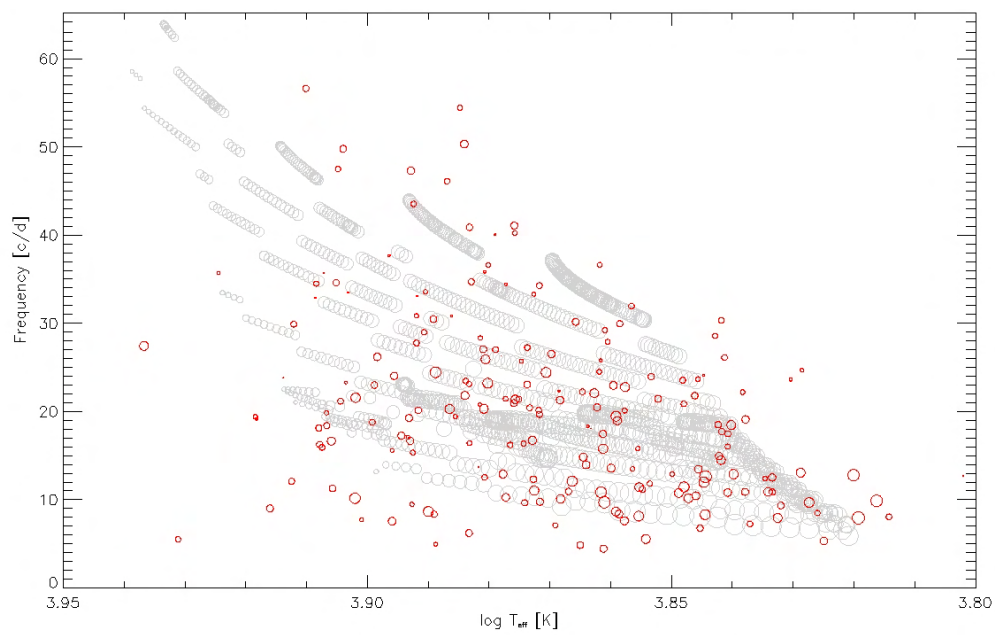


Figure 6.13: Frequency versus $\log T_{\text{eff}}$ for all δ Scuti stars identified in the sample. The frequency corresponds to the mean of the three strongest peaks. The size of the symbols is scaled with the logarithm of the dominant amplitude. The the maximum of the stability parameter from figure 6.12 are shown in light gray.

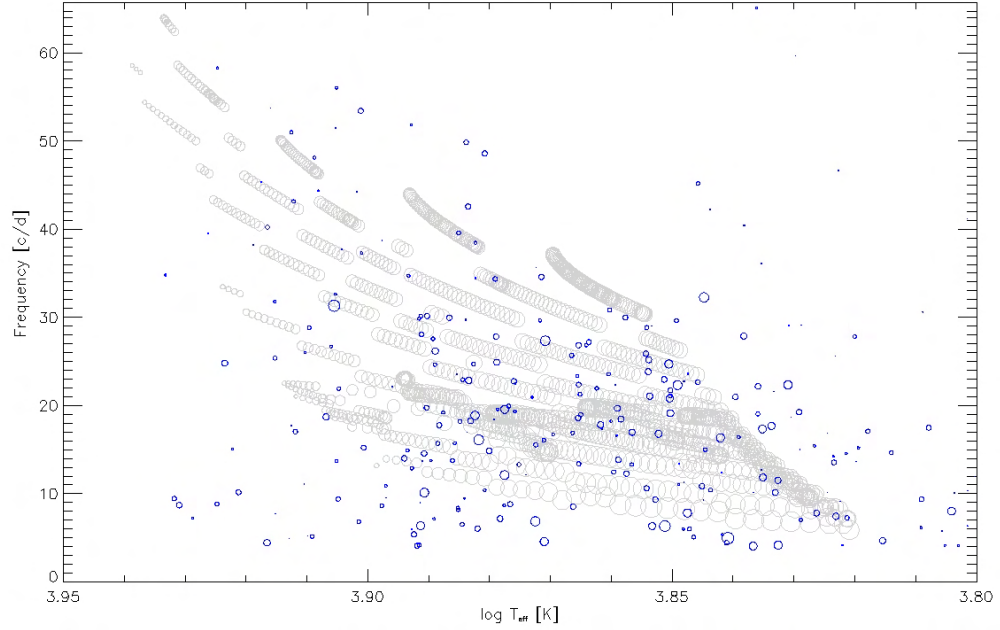


Figure 6.14: Same as figure 6.13 but for the p-modes of all hybrid stars identified in the sample.

6.5 Rotation

The γ Doradus and δ Scuti stars found in the literature can be fast, moderate or slow rotating stars. If the rotation period is getting close to the order of the pulsation period it can cause asymmetric rotational splitting of the modes. The perturbative approach which is commonly used to calculate the splitting is only valid for slow rotators. For fast rotating stars the centrifugal force distorts the star leading to a break from spherical symmetry which invalids the spherical harmonic approximation used. The $v \sin i$ derived from the spectra gives only an upper limit to the true rotation period of the star. Unfortunately, the spectral resolution of the AAOmega spectra only gives a very crude estimation of $v \sin i$ with an overall error of more than 30 km/s. Figure 6.16 shows the relationship between the amplitude of the dominant mode and the estimated $v \sin i$ for ground based observations from Breger 2000 (left panel) and from my work (right panel). Taking into account the very crude estimation of $v \sin i$ from the AAO observations the distribution looks very similar.

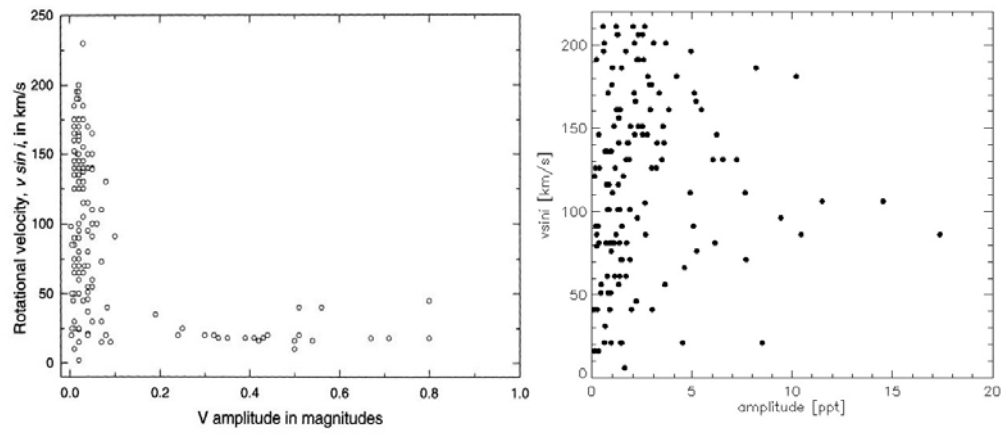


Figure 6.15: Relationship between the amplitude of dominant mode and the estimated $v \sin i$ for ground based observations from Breger 2000 (left panel) and from my work (right panel).

Figure 6.15 shows a histogram of the $v \sin i$ vs. fraction of pulsation type for all identified γ Doradus, δ Scuti and hybrid stars. There is no clear correlation visible.

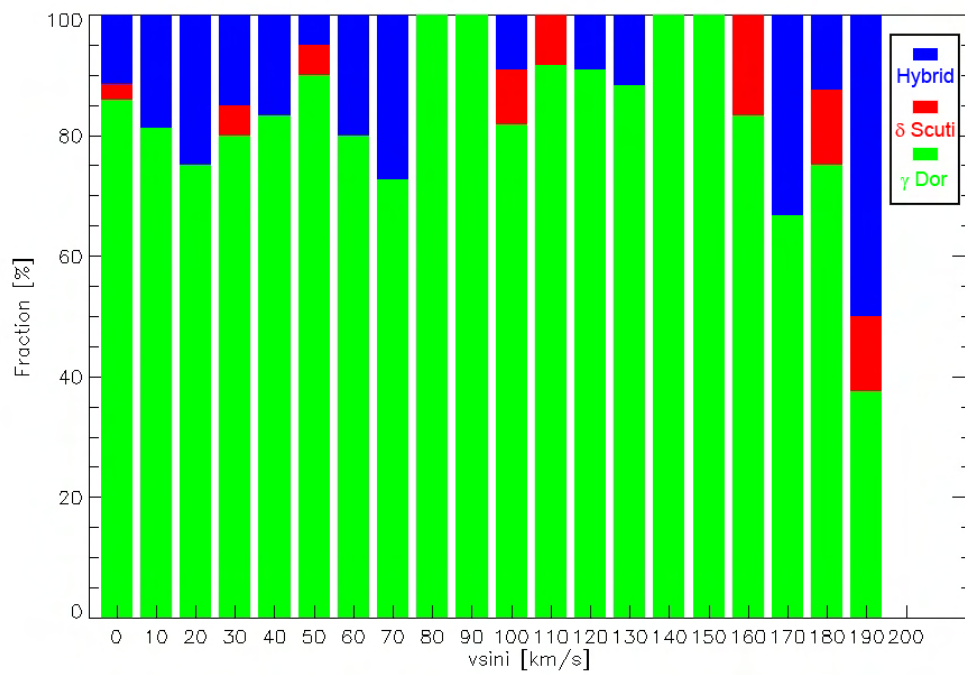


Figure 6.16: Histogram of $v \sin i$ for all identified γ Doradus, δ Scuti and hybrid stars.

6.6 Constant stars

For an analysis of the pulsation characteristics of stars not only the variable ones are of interest. Also the non-variable or constant stars and their properties can give us interesting insights. For the histogram shown in figure 6.17 the analysed stars were categorised into three additional classes in addition to the δ Scuti, γ Doradus and hybrid class. Stars with one or two single low frequencies or repeating pattern were classified as rotation, stars without significant peaks in the amplitude spectrum were classified as constant. Variability of different (e.g. RR Lyr stars, irregular variables, single high frequency) or unclear origin (mostly low frequency signal) was summed under "different variability". The total number of analysed stars per bin is shown in figure 6.18. For the hotter stars in the sample it is quite poor number statistics. This is due to the target selection process of the AAO spectra which was mainly centered on sun like stars. The lowest number of constant stars is at around 6500 to 7000K which overlaps with the region of stars showing the highest amplitudes in the sample. The detection limit for variability is at about 10ppm for the brightest stars and 100ppm for the more fainter ones. One of the possible explanations for why stars do not show variability in the IS could be the existence of magnetic fields in the stars according to theory. To investigate this, polarimetry of the constant stars from the sample would be needed. This would also shed some light on fraction of constant stars which show magnetic field at all as there are examples of non-pulsating non-magnetic stars in the IS as well. Comparing the numbers to ground based results (e.g. Breger 2000) shows that only 30% of my sample show δ Scuti or hybrid behavior in comparison with 30-50% in ground based campaigns. This might be due to the fact that for the fainter stars in the sample the pulsation is not visible above the noise which leads in the end to an increased number of constant stars.

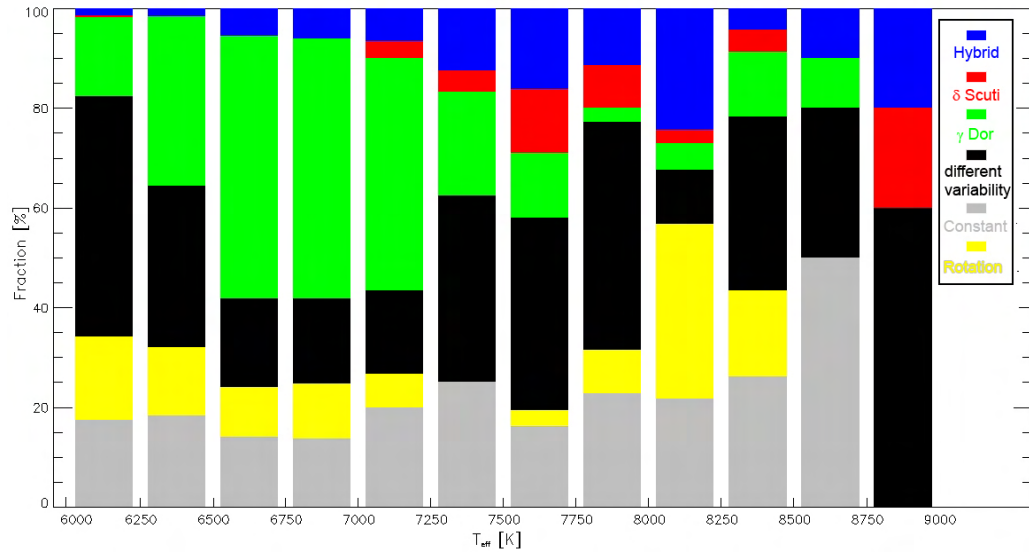


Figure 6.17: Histogram of variable stars (colored) versus constant stars (gray). The bars are scaled to 100% for each temperature bin.

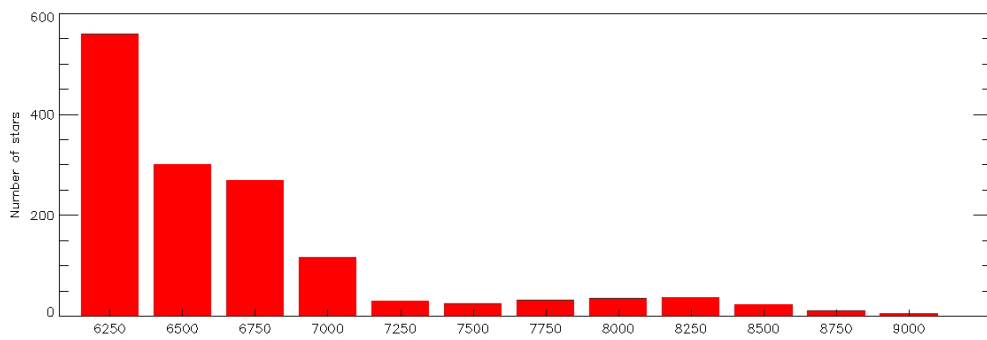


Figure 6.18: Histogram of the number of stars per temperature bin.

6.7 Metallicity

From the AAO spectra it was possible to estimate the metallicity of the stars. It has to be pointed out that only the surface abundance was determined and no vertical stratification analysis was performed. This is important as for γ Doradus the surface convection and the depth of the convective envelope are strong enough that through mixing the surface abundance is similar to the overall metallicity in the convective envelope. For stars like the hotter δ Scuti stars from my sample this is no longer the case as the convection zone gets shallower with higher temperatures and the mixing gets less efficient.

Based on this pretext, figure 6.19 shows the metallicity vs. effective temperature for all identified γ Doradus stars in green, δ Scuti stars in red, hybrid stars in blue and constant stars in black. The mean error is shown as the black dashed symbol in the lower left corner. The colored lines indicate the mean metallicity of each group of stars. The straight red line at the bottom indicates the range of the location of the red border of the δ Scuti IS. The δ Scuti stars show in general a lower metallicity than the constant stars. Furthermore the hybrids show a small offset towards lower metallicities in comparison with the δ Scuti stars. Constant stars have an overall higher metallicity than the variable stars from all three classes. At the hotter border of the red edge of the IS all three classes have about the same mean metallicity but the constant stars still have a slightly higher one. As mentioned above, going towards higher temperature the derived values of the metallicity becomes more and more only a surface abundance.

In Figure 6.20 the HRD for all identified γ Doradus stars is shown. The metallicity is color coded for the mean values of the stars within boxes with a raster of $100\text{K } T_{\text{eff}}$ and $0.1\text{dex } \log g$ which are shown as white lines. The mean error bar of the observations is given in black. In general the stars with lower temperature and lower surface gravity show the lowest metallicities. Stars near the ZAMS that are on or beyond the blue edge of the δ Scuti IS show the highest metallicities.

In Figure 6.21 the HRD for all identified δ Scuti stars is shown and in Figure 6.22 the HRD for all identified hybrid stars. As in figure 6.19 it shows that the metallicity of the cooler hybrids is slightly lower than for the δ Scuti stars. For stars hotter than the blue edge of the δ Scuti IS the distribution is not significantly different

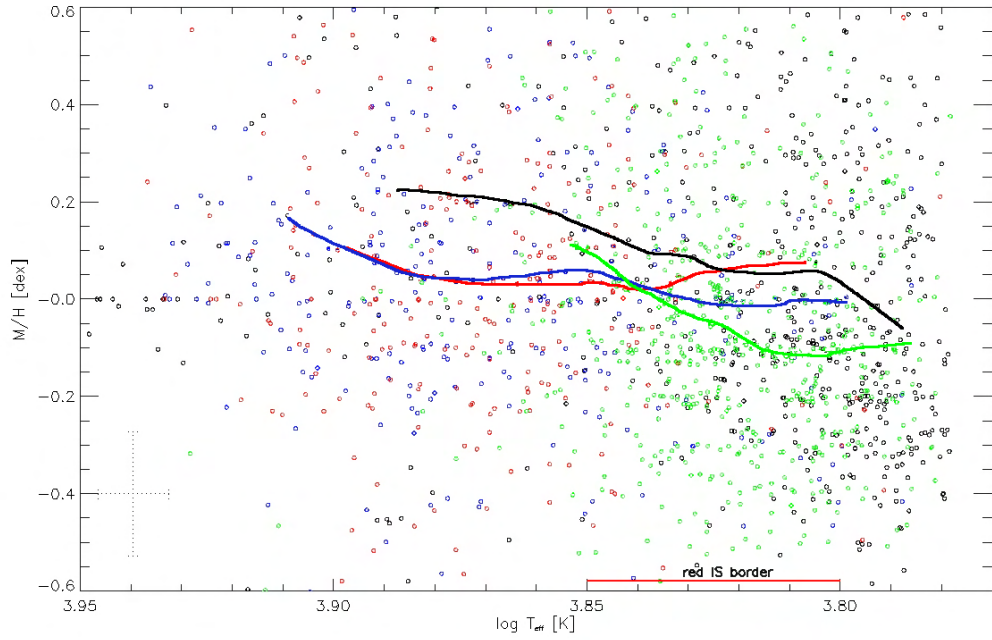


Figure 6.19: Metallicity vs. effective temperature for all identified γ Doradus (green), δ Scuti (red), hybrid (blue) and constant (black) stars. The mean error is shown in black. The colored lines indicate the mean metallicity of each group of stars. The straight red line indicates the location of the red border of the δ Scuti IS.

considering the error bars. Cool δ Scuti stars in the overlapping area of both strips show in general low metallicity compared to a higher metallicity for the γ Doradus stars.

The final plot in figure 6.23 shows the situation for the identified constant stars. The higher metallicity in contrast to the γ Doradus, δ Scuti and hybrid stars is evident. This suggests that the depth of the convective envelope that changes with metallicity plays an important role in the selection of the pulsation mechanism as predicted by theory.

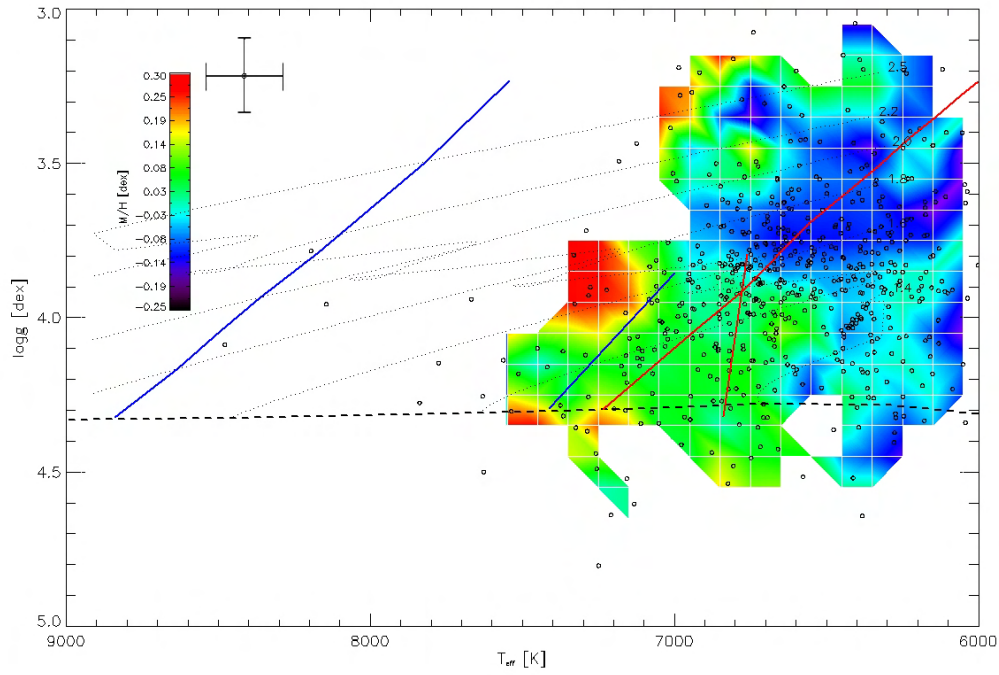


Figure 6.20: HR diagram for all identified γ Doradus stars. The instability domains of δ Scuti and γ Doradus are given by the red and blue solid lines. The borders of the δ Scuti strip are taken from Pamyatnykh (2000) and the borders of the γ Doradus strip are taken from Dupret et al. (2004). The metallicity is color coded. Furthermore the Zero-Age Main Sequence (ZAMS) (Crawford 1979) and a few post main sequence evolutionary tracks for the indicated values of $M/M_{\odot}$ are shown in dashed and dotted black lines.

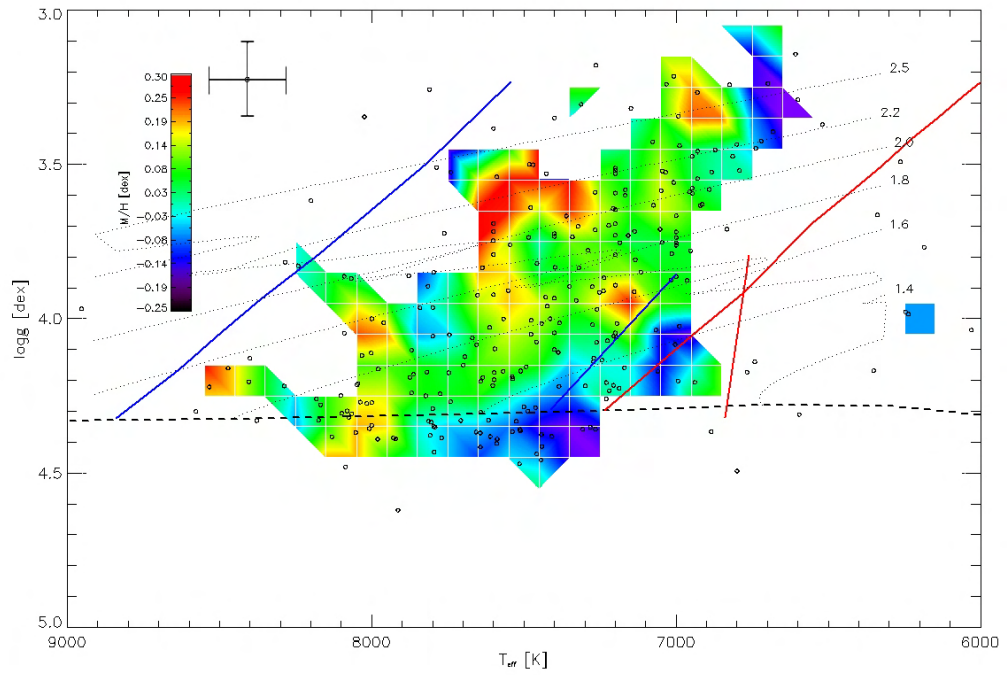


Figure 6.21: Same as 6.20 but for all identified δ Scuti stars.

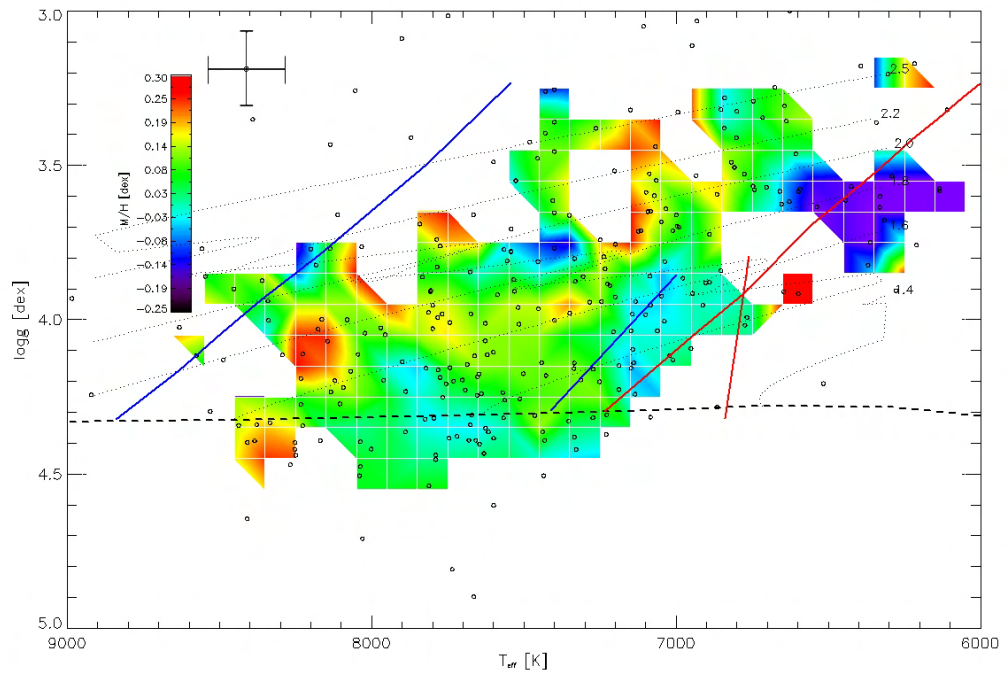


Figure 6.22: Same as 6.20 but for all identified hybrid stars.

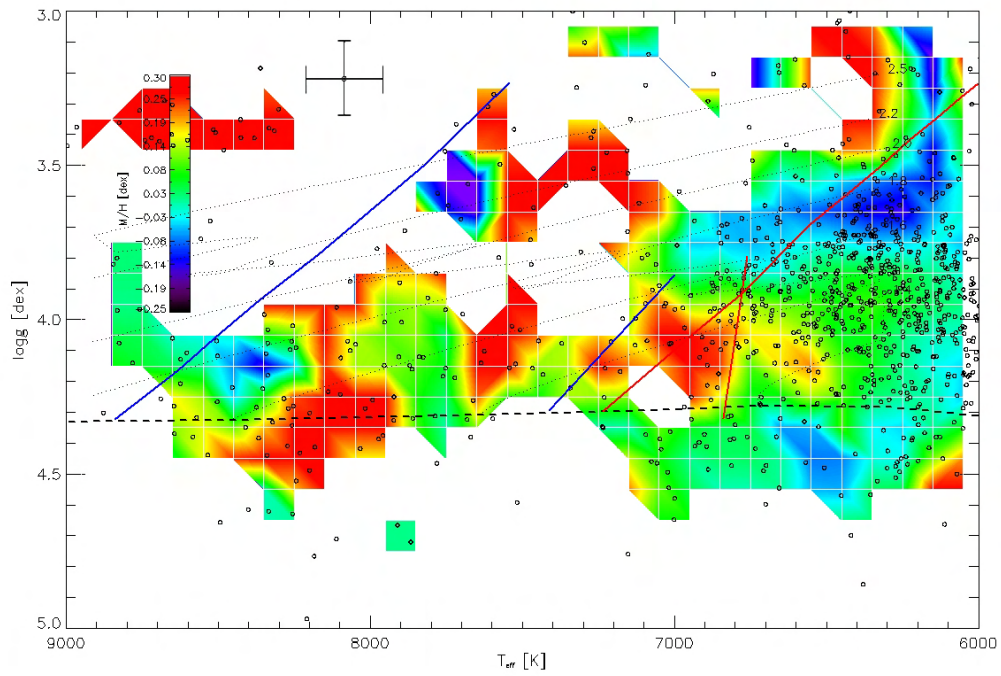


Figure 6.23: Same as 6.20 but for all constant stars from the sample.

Chapter 7

Conclusion and Outlook

I have shown that using the algorithm for spectroscopic observations developed for this survey, it is possible to perform a homogenous spectral analysis using Bayesian technics using a fully automated pipeline. A grid of synthetic stellar spectra from LLmodels using atomic lines derived from the VALD database was computed. By using synthetic input spectra with artificially added noise I could demonstrate the reliability of the algorithm. By comparing literature values of fundamental parameters from the Elodie spectral library with results from my algorithm I have further shown the accuracy of my approach. With the comparison of results from high resolution spectroscopic observations for a sample of CoRoT exo-planet hosting stars I have further proven the reliability of the algorithm for as faint stars as the ones from my sample.

Applying this method to almost 12000 AAO low resolution spectra that were available for the initial run and the first two anticenter longruns of CoRoT, I provided an estimate of the stellar fundamental parameters T_{eff} , $\log g$, $[M/H]$ and additional V_{rad} and $v \sin i$. Furthermore, Strömgren photometry and medium resolution ESO spectra were used to derive fundamental parameters for stars with no AAO spectra available.

A procedure was developed to correct for hot pixels and other instrumental effects in the CoRoT Exo-field light curves, resulting in a significant decrease of the noise in the Fourier domain of the analyzed γ Doradus, δ Scuti and hybrid candidate stars.

For all 5262 stars, observed by CoRoT in Ira01, Lra01 and Lra02 with fundamental parameters, a detailed frequency analysis was performed using the CAPER software package. The theoretical location of the fundamental radial mode from YREC models was used to make a separation between pure δ Scuti or γ Doradus stars and δ Scuti- γ Doradus hybrid stars. Additionally, constant stars in the sample were identified.

During my thesis I have shown that δ Scuti- γ Doradus hybrid stars exist as a separate group of variable stars. They share the same region in the HRD as the δ Scuti stars with the exception that their red border extends a little further towards cooler temperatures. Furthermore the existence of pure δ Scuti and γ Doradus stars down to a noise level of 10ppm for the brightest CoRoT targets has been shown. This is in contrast to the findings of the Kepler mission (Grigahcène et al. 2010 and Balona 2014) who state that all δ Scuti stars are essentially hybrids. This can either mean that in all the identified pure δ Scuti stars observed by CoRoT the g-mode pulsation is too low to be detected or that in some of the Kepler stars with hybrid pulsation the identified g-modes are actually artifacts.

Via the temperature-period relation I showed that a correlation between δ Scuti and hybrid star p-modes exists and that hybrids show slightly longer periods than δ Scuti stars with the same temperature. Additionally hybrid stars in the overlapping region of the δ Scuti and the γ Doradus IS show on average lower metallicity.

The amplitudes of the p-modes of hybrid stars are in comparison to the δ Scuti stars in general lower, which is also the case for the comparison of the hybrid g-modes with the amplitudes of the γ Doradus stars. In comparison with γ Doradus models the g-modes of hybrids are present at temperatures where the surface convection zone should already be too shallow to drive them. Therefore new theoretical approaches like the one made by Shiode et al. (2012) will be necessary to give a satisfying explanation of their existence.

The comparison of γ Doradus stars with theoretical models showed that the observed γ Doradus IS extends up to 1000K further towards cooler temperatures than assumed up to now even if the large error bars of around 150K of temperature estimation are taken into account. This leads to the conclusion that a value for α of lower than 1.4 might be effective for the cooler stars. Furthermore the cooler γ Doradus stars show in general a slightly lower metallicity than the hotter γ Doradus

stars in the sample. The largest amplitudes of γ Doradus stars are shown at around 7000K, which is in good agreement with the predicted growth rates. Unfortunately it is not possible to calculate amplitudes with the available models up to now.

The metallicity determination showed that constant stars have in general higher values than δ Scuti, γ Doradus and hybrid stars in the same temperature range.

I found that stars showing γ Doradus variability have higher metallicities than stars showing δ Scuti or hybrid behavior in the overlapping area of the classical and the γ Doradus IS.

In total 452 γ Doradus stars, 277 δ Scuti stars and 274 hybrid stars could be identified. The ratio of variable stars to constant stars is biggest for temperatures between 6500K and 7000K with only 15% of non-variable stars. For the δ Scuti and hybrid stars near the blue border of the classical IS the statistics of the sample is unfortunately quite poor as the focus of the ground based AAO observing campaign was to provide support observations for the exo-planet finding program of CoRoT. In a future study it would be essential to fill this gap to get a more complete picture of the δ Scuti and hybrid population at higher temperatures.

Due to bad weather at the AAO and time constraints I was only able to look into CoRoT observations from IRa01, LRa01 and LRa2. Till the end of its life CoRoT did observing runs up to LRc10 and LRa08 which would present the possibility to improve the statistics of the sample which I presented here considerably.

Another possibility to further improve the statistics will be the use of Kepler data. The NASA satellite, which is in a Lagrange point more than 1.5 million kilometers away from the earth, has observed over 150000 stars for over three and a half years. In contrast to CoRoT this long time base helps to avoid problems like frequency combination effects and amplitude modulations. For δ Scuti stars Kepler is unfortunately not that well suited as the Nyquist frequency of the long cadence data is in the range of possible δ Scuti variability.

Finally it is worth mentioning that, where my thesis showed the limitations of low resolution spectroscopic observations, in the coming years several large medium resolution spectroscopic campaigns will produce data for hundreds of thousands of stars. The tools that were developed during this work and the knowledge accumulate will help to make full use of these data.

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Appendix A

Catalog of stars with Strömgren photometry

Table A.1. Catalog of all 499 stars with Strömgren photometry from IRa1, LRa1 and LRa2: Corot Identification (CoID), B magnitude, $(b - y)_0$, m_0 , c_0 , $H\beta$, M_v , effective temperature, surface gravity, metallicity, Spectral Type and Luminosity Class.

CoID	B_{mag} [mag]	V_{mag} [mag]	$(b - y)_0$	m_0	c_0	$H\beta$	M_v [mag]	T_{eff} [K]	ΔT_{eff} [K]	$\log g$ [dex]	$\Delta \log g$ [dex]	M/H [dex]	$\Delta M/H$ [dex]	SPTtype	Class
102769244	14.8	14.3	0.066	0.183	1.083	2.86	0.8	8090	510	3.7	0.2	-0.1	1.1	F5	V
102773757	15.7	15.2	0.111	0.274	1.024	2.83	1.0	7806	762	3.7	0.4	0.8	0.5	F8	V
102776797	15.1	14.5	0.175	0.222	0.742	2.63	2.8	6019	2444	4.1	0.3	0.4	0.7	G0	V
102781922	16.1	15.3	0.093	0.183	1.041	2.82	0.8	7705	958	3.6	0.2	-0.1	0.6	G8	III
102784258	15.0	14.3	0.174	0.198	1.077	2.73	-1.1	6837	332	2.4	0.6	0.3	0.5	G0	V
102784435	16.6	15.7	0.332	0.172	0.390	2.64	3.8	6200	1130	4.4	1.1	-0.0	2.3	K1	IV
102786250	16.0	15.3	0.142	0.114	1.053	2.77	-0.2	7234	683	3.0	0.7	-0.7	0.6	G7	III
102790060	15.8	15.0	-0.029	0.278	0.333	2.62	-1.7	6068	652	3.6	0.3	-0.0	0.1	G9	III
102795535	16.4	15.7	0.160	0.154	1.005	2.75	0.0	7099	1112	3.0	1.1	-0.2	0.5	G8	IV
102797443	15.1	14.0	0.347	0.201	0.631	2.63	1.7	5973	364	2.8	0.9	0.3	3.4	M1	V
102798257	15.2	14.6	0.146	0.216	0.787	2.67	2.8	6351	406	4.2	0.2	0.2	0.4	F9	V
102799759	16.2	15.4	0.251	0.113	0.471	2.67	3.3	6573	723	4.3	0.8	-0.9	-	K0	IV
102800592	16.5	15.6	0.093	0.222	1.027	2.84	1.0	7842	933	3.7	0.8	0.3	1.0	K2	III
102801504	15.7	14.9	0.264	0.112	0.492	2.66	3.0	6451	552	4.1	0.7	-0.8	0.9	G2	V
102801519	16.3	15.4	0.359	0.189	0.358	2.62	4.1	6020	1171	4.5	1.3	0.1	4.7	K2	III
102802358	16.0	15.2	-0.047	0.331	0.260	2.60	-1.3	5798	824	4.5	0.3	0.0	0.0	G7	III
102803172	15.4	14.6	0.365	0.159	0.378	2.60	4.0	5891	538	4.1	0.9	-0.4	0.7	A5	IV
102803775	16.1	15.2	0.282	0.197	0.679	2.67	1.4	6423	6453	3.3	2.4	0.5	-	K2	III
102806859	15.8	15.0	0.221	0.180	0.583	2.72	3.2	6945	515	4.3	0.6	0.2	3.8	G9	III
102807763	16.1	15.2	0.335	0.138	0.439	2.62	3.4	6062	593	3.8	0.8	-0.5	0.5	M1	V
102809016	16.1	15.5	0.293	0.161	0.604	2.66	2.0	6315	799	3.4	1.1	-0.1	1.6	F8	IV
102812091	15.7	15.1	0.271	0.207	0.559	2.68	2.7	6623	587	4.0	0.8	0.7	1.1	F5	V
102814491	16.0	15.2	0.251	0.166	0.637	2.69	2.1	6643	2474	3.7	0.9	0.0	-	G7	V
102815741	14.9	14.3	0.152	0.255	0.738	2.82	3.4	7728	267	4.4	0.3	0.6	0.5	G1	V
102815810	16.1	15.5	0.063	0.127	0.991	2.88	1.7	8259	1719	4.1	0.7	-0.6	0.6	F5	V
102817699	16.4	15.4	0.309	0.130	0.370	2.63	4.0	6255	762	4.5	0.9	-0.5	0.7	K2	III
102817905	16.1	15.4	0.225	0.113	0.582	2.69	2.6	6678	749	4.0	0.8	-0.9	-	G5	V

Table A.1. continued.

CoID	Bmag [mag]	Vmag [mag]	(b - y)0	m0	c0	H β	M _v [mag]	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	SPrtype	Class
102819694	16.7	15.8	0.302	0.105	0.362	2.63	4.1	6286	1029	4.5	1.1	-0.9	1.5	K2	IV
102821773	16.4	15.7	0.189	0.199	0.799	2.75	1.8	7109	982	3.7	0.9	0.2	0.7	F7	V
102823271	15.9	15.3	0.082	0.202	0.916	2.86	2.3	8109	792	4.2	0.5	0.1	0.8	F5	V
102826867	16.2	15.4	0.239	0.189	0.637	2.70	2.3	6773	694	3.9	0.7	0.3	7.2	K0	IV
102827598	15.5	14.8	0.264	0.123	0.434	2.67	3.6	6556	488	4.5	0.6	-0.6	0.8	G5	III
102828270	15.9	15.2	0.079	0.138	0.908	2.87	2.4	8151	1508	4.2	0.6	-0.5	1.2	A5	IV
102828606	15.8	15.1	0.266	0.199	0.513	2.69	3.2	6707	715	4.3	0.8	0.5	0.9	A5	V
102828748	16.0	15.4	0.159	0.179	0.791	2.78	2.4	7414	678	4.0	0.6	-0.0	0.4	A0	V
102829330	15.3	14.7	0.219	0.268	0.668	2.77	3.0	7368	353	4.2	0.2	0.9	0.6	F9	V
102829678	14.8	14.2	0.052	0.198	1.166	2.92	1.3	9480	1429	4.0	0.8	0.0	0.0	G0	III
102830298	15.9	15.2	0.118	0.176	1.005	2.81	0.8	7561	698	3.5	0.6	-0.1	0.4	F5	V
102830925	16.5	15.8	0.108	0.225	0.948	2.83	1.6	7784	1090	3.9	0.8	0.3	0.8	G1	V
102832022	16.5	15.8	0.321	0.060	0.526	2.62	2.6	6081	1170	3.1	1.8	-1.8	-	G7	IV
102832486	15.5	14.8	0.349	0.156	0.385	2.62	3.9	6030	548	4.2	0.7	-0.3	0.5	G3	V
102834109	16.5	15.7	0.309	0.172	0.563	2.65	2.3	6264	1137	3.5	1.3	0.1	1.4	F8	IV
102834395	15.6	15.0	0.067	0.165	1.011	2.87	1.5	8178	849	4.0	0.3	-0.2	0.7	F8	V
102835093	15.8	15.2	0.117	0.285	0.914	2.84	2.1	7936	1074	4.0	0.5	0.9	0.5	F5	IV
102836466	16.4	15.8	0.116	0.289	0.890	2.63	2.4	5953	1111	4.2	0.2	1.0	0.6	G2	V
102836568	16.4	15.8	0.267	0.191	0.712	2.68	1.3	6500	909	3.2	1.1	0.4	-	G3	V
102837646	15.4	14.8	0.173	0.255	0.813	2.69	2.2	6599	402	3.9	0.2	0.7	0.4	G3	V
102839883	16.0	15.3	0.123	0.269	0.884	2.91	3.3	8701	150	4.5	0.0	0.0	0.0	G6	IV
102840074	16.2	15.4	0.285	0.195	0.460	2.68	3.5	6621	714	4.4	0.7	0.5	0.9	A7	V
102840102	15.5	14.9	0.222	0.240	0.569	2.71	3.2	6899	423	4.3	0.5	0.9	0.5	K2	V
102840981	16.8	15.8	0.352	0.197	0.509	2.63	2.8	5995	1198	3.5	1.4	0.2	1.0	K2	V
102846647	16.6	15.8	0.106	0.234	0.799	2.86	3.3	8086	962	4.5	0.8	0.4	2.0	G9	IV
102848482	15.8	15.1	0.314	0.081	0.483	2.63	3.0	6158	598	3.5	1.0	-1.3	0.7	F8	IV
102848734	15.0	14.4	0.339	0.192	0.422	2.64	3.6	6154	507	4.2	0.6	0.2	0.8	F9	V
102850629	15.9	15.3	0.155	0.274	0.806	2.81	2.7	7636	715	4.1	0.5	0.8	0.4	G2	V
102850921	13.3	13.0	0.066	0.190	1.080	2.88	0.8	8300	232	3.7	0.2	-0.0	0.4	A5	IV
102853480	15.7	14.9	0.299	0.167	0.418	2.62	3.6	6082	547	4.5	0.3	-0.0	0.9	G8	III

Table A.1. continued.

ColD	Bmag [mag]	Vmag [mag]	(b - y)0	m ₀	c ₀	H β	M _v [mag]	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	SPrtype	Class
102856194	15.7	15.2	0.086	0.227	0.840	2.88	3.1	8268	150	4.5	0.0	0.3	0.0	A5	IV
102856541	15.0	14.5	0.131	0.185	1.010	2.79	0.5	7416	382	3.4	0.4	-0.0	0.4	A5	V
102857187	15.2	14.6	0.110	0.269	1.042	2.83	0.8	7779	414	3.6	0.3	0.8	0.4	F9	V
102858204	16.4	15.7	0.181	0.270	0.875	2.77	1.4	7266	954	3.6	0.8	0.9	0.5	G9	IV
102858533	14.2	13.5	-0.039	0.340	0.338	2.64	-0.8	6144	345	4.5	0.1	0.0	0.0	F0	V
102858896	16.4	15.8	-0.013	0.184	0.950	2.71	-1.5	9871	735	3.1	0.8	0.0	0.0	G6	IV
102859275	16.1	15.6	0.203	0.095	0.651	2.74	3.1	7157	754	4.2	0.7	-0.8	0.4	A5	IV
102860610	16.7	15.8	0.369	0.179	0.362	2.62	4.1	5933	1365	4.3	1.3	-0.2	1.0	F8	IV
102862197	16.2	15.6	0.076	0.138	1.044	2.85	1.0	7999	1557	3.8	0.7	-0.5	0.8	G4	IV
102864940	15.8	15.1	0.389	0.187	0.373	2.60	4.0	5775	651	4.0	0.9	-0.2	0.8	F6	V
102867173	16.0	15.3	0.180	0.206	0.660	2.78	3.5	7430	583	4.4	0.5	0.2	0.5	F8	IV
102867713	16.4	15.5	0.343	0.196	0.413	2.64	3.6	6139	943	4.3	0.9	0.3	0.9	A7	V
102869855	16.4	15.7	0.306	0.072	0.388	2.62	3.8	6222	877	4.1	1.2	-1.6	-	G2	V
102870034	15.7	15.0	0.191	0.268	0.946	2.75	0.5	7062	467	3.1	0.5	1.0	0.4	G4	V
102870224	15.6	14.9	0.106	0.130	1.022	2.82	0.9	7679	751	3.6	0.6	-0.6	0.5	G8	III
102871638	16.0	15.2	0.346	0.147	0.394	2.62	3.8	6018	799	4.1	1.4	-0.4	1.0	G2	V
102872860	16.1	15.4	0.342	0.128	0.388	2.61	3.9	5992	719	4.0	1.0	-0.6	0.7	A5	IV
102876040	15.8	15.0	0.310	0.206	0.429	2.66	3.6	6486	510	4.5	0.9	0.6	0.3	F5	V
102876159	16.2	15.6	0.302	0.212	0.467	2.66	3.3	6502	768	4.3	0.8	0.7	1.1	F8	IV
102880651	15.6	15.0	0.179	0.280	0.790	2.79	2.4	7441	453	4.0	0.4	1.0	0.7	A5	V
102881198	16.0	15.3	0.366	0.157	0.362	2.60	4.1	5885	697	4.2	0.9	-0.4	0.6	F8	IV
102883650	15.9	15.4	-0.014	0.182	0.942	2.69	-2.0	9933	965	3.0	0.6	0.0	0.0	A5	V
102884649	14.4	13.7	0.332	0.188	0.572	2.64	2.2	6110	224	3.3	0.3	0.2	0.6	F8	IV
102884859	15.4	14.8	0.181	0.259	0.828	2.77	1.9	7308	482	3.8	0.5	0.8	0.6	G1	V
102887524	16.6	15.9	0.303	0.211	0.449	2.66	3.4	6515	990	4.4	0.9	0.7	1.4	A7	V
102888076	16.2	15.4	0.169	0.291	0.868	2.88	3.4	8356	150	4.5	0.0	0.0	0.0	A5	IV
102888202	15.8	15.3	0.127	0.269	0.932	2.91	3.1	8814	150	4.4	0.0	0.0	0.0	G0	V
102888571	16.1	15.3	0.152	0.182	0.945	2.77	0.8	7264	719	3.4	0.7	0.0	0.7	A5	IV
102889353	16.5	15.7	0.152	0.152	1.036	2.76	-0.1	7147	940	3.0	0.9	-0.2	0.4	A0	V
102890182	16.1	15.4	0.305	0.152	0.483	2.65	3.0	6295	764	4.0	0.9	-0.2	2.3	G7	IV

Table A.1. continued.

CoID	Bmag [mag]	Vmag [mag]	(b - y)0	m0	c0	H β	M _v [mag]	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	SPrtype	Class
102891688	15.7	15.0	0.204	0.247	0.799	2.74	1.8	7093	568	3.6	0.7	0.7	1.6	G6	III
102894770	15.0	14.4	0.097	0.198	1.219	2.81	-1.1	7544	395	2.9	0.4	0.1	0.8	G0	V
102895770	15.7	15.0	0.325	0.158	0.538	2.63	2.5	6106	639	3.4	0.9	-0.2	0.6	G6	V
102896256	16.4	15.7	0.340	0.180	0.408	2.63	3.7	6137	951	4.3	0.9	0.1	1.0	F8	IV
102896639	16.6	15.9	0.313	0.096	0.516	2.63	2.7	6173	1093	3.4	1.5	-1.0	-	A7	V
102897381	15.8	15.0	0.375	0.180	0.340	2.61	4.3	5897	764	4.4	0.8	-0.2	0.8	G2	V
102898374	13.1	12.7	0.066	0.224	1.108	2.83	0.6	7737	87	3.7	0.2	0.3	0.6	A5	V
102899422	16.6	15.8	0.296	0.172	0.496	2.66	3.0	6459	995	4.1	1.1	0.1	1.4	K0	IV
102899635	15.8	15.1	0.334	0.181	0.562	2.63	2.3	6085	589	3.3	0.8	0.1	0.8	A5	V
102901468	15.5	14.8	0.192	0.270	0.717	2.66	3.0	6242	634	4.2	0.3	0.9	0.9	G6	III
102901722	16.4	15.7	0.056	0.214	0.915	2.90	2.2	8578	981	4.3	0.9	0.0	0.0	A0	V
102902099	15.3	14.7	0.100	0.206	1.005	2.83	1.1	7762	450	3.7	0.4	0.1	1.0	G4	III
102904535	16.1	15.5	0.335	0.178	0.434	2.64	3.4	6156	963	4.1	1.0	0.1	1.0	F8	IV
102905104	16.0	15.1	0.339	0.165	0.400	2.63	3.7	6103	741	4.2	1.2	-0.1	4.3	K0	III
102906171	15.5	14.9	0.234	0.201	0.653	2.71	2.3	6792	451	3.8	0.6	0.5	0.8	A5	IV
102907843	16.8	15.9	0.149	0.212	1.054	2.77	-0.2	7189	1466	3.0	1.1	0.3	0.5	A5	IV
102908820	16.2	15.6	0.051	0.218	0.950	2.92	2.4	8584	150	4.4	0.0	0.0	0.0	F7	V
102909135	15.9	15.2	0.267	0.142	0.570	2.67	2.4	6503	654	3.8	0.8	-0.3	1.4	G7	III
102910601	16.6	15.8	0.244	0.204	0.809	2.69	0.6	6586	1052	3.0	1.3	0.6	-	G8	IV
102911542	15.7	15.0	0.127	0.131	1.103	2.78	-0.4	7335	470	3.0	0.5	-0.5	0.2	G6	III
102912977	16.0	15.3	0.108	0.170	0.915	2.83	1.9	7789	833	3.9	0.5	-0.2	0.5	G1	V
102915417	14.7	14.2	0.080	0.262	1.013	2.87	1.5	8213	447	4.0	0.2	0.7	1.0	F5	V
102916272	15.1	14.5	0.099	0.284	1.108	2.84	0.3	7862	491	3.5	0.3	0.9	0.5	G2	V
102916337	16.0	15.5	0.197	0.255	0.972	2.73	0.0	6920	731	2.9	0.8	0.9	1.1	F6	V
102918615	16.1	15.5	0.110	0.290	0.956	2.85	1.8	7978	150	4.0	0.0	1.0	0.0	G4	IV
102920500	16.2	15.5	0.094	0.236	0.970	2.85	1.7	7965	770	3.9	0.6	0.4	0.6	G4	V
102921103	15.8	15.2	0.108	0.261	0.941	2.84	1.9	7909	150	4.0	0.0	0.7	0.0	A5	V
102921253	14.5	13.9	-0.018	0.218	0.713	2.67	-0.8	6410	240	3.5	0.2	-0.0	0.0	A5	IV
102921743	16.2	15.3	0.289	0.123	0.425	2.64	3.5	6326	720	4.3	0.8	-0.6	0.7	K0	III
102921876	16.7	16.0	0.269	0.130	0.610	2.66	2.0	6346	6444	3.4	3.8	-0.5	-	F5	V

Table A.1. continued.

ColD	Bmag [mag]	Vmag [mag]	(b - y)0	m ₀	c ₀	H β	M _v [mag]	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	Sptype	Class
102922342	16.0	15.4	0.137	0.136	1.014	2.78	0.4	7337	807	3.3	0.8	-0.4	0.4	G2	V
102922407	15.8	15.1	0.402	0.210	0.353	2.60	4.1	5725	876	4.3	0.9	0.0	0.8	G0	V
102924782	15.2	14.6	0.269	0.155	0.486	2.68	3.3	6634	382	4.3	0.5	-0.1	0.8	G3	V
102926548	15.9	15.4	0.269	0.080	0.772	2.67	0.5	6324	761	2.7	1.1	-1.7	-	G0	V
102929412	15.8	15.1	0.314	0.110	0.479	2.62	3.0	6118	534	3.6	0.9	-0.8	0.4	G5	V
102930751	15.8	15.3	0.076	0.218	0.952	2.88	2.0	8354	346	4.2	0.5	0.0	0.0	F7	V
102934345	12.7	12.2	-0.039	0.341	0.329	2.64	-0.9	6310	71	4.5	0.1	0.0	0.0	A5	V
102935679	14.5	13.9	0.325	0.155	0.413	2.63	3.6	6186	277	4.2	0.5	-0.2	0.4	A5	V
102935735	16.5	15.8	0.302	0.066	0.418	2.63	3.6	6244	891	4.0	1.2	-1.8	-	G6	V
102937721	16.0	15.3	0.230	0.111	0.487	2.68	3.5	6612	699	4.5	0.4	-0.9	1.8	A0	V
102938192	16.4	15.9	0.282	0.055	0.618	2.65	1.8	6225	1045	3.2	1.4	-2.6	-	F5	V
102938879	16.3	15.7	0.008	0.172	1.012	2.90	1.2	9347	1453	4.1	0.8	0.0	0.0	A5	IV
102940319	16.2	15.5	0.024	0.178	0.988	2.88	1.2	9062	1191	4.0	0.9	0.0	0.0	A0	V
102940723	12.2	11.7	0.247	0.190	0.552	2.67	3.1	6471	57	4.2	0.2	0.4	1.0	A5	IV
102942628	12.8	12.6	0.107	0.246	0.944	2.84	2.6	7849	90	4.3	0.2	0.0	0.0	A0	V
102943025	16.5	15.8	0.179	0.135	0.905	2.74	0.8	7032	1022	3.2	1.0	-0.3	0.5	A5	IV
102943064	16.1	15.5	0.363	0.169	0.429	2.62	3.5	5936	844	3.8	1.1	-0.2	0.8	A5	IV
102945070	16.5	15.8	0.076	0.169	0.880	2.87	2.7	8238	1766	4.3	0.8	-0.2	0.8	A0	V
102945247	14.5	14.2	0.101	0.276	0.970	2.86	1.7	8028	302	4.0	0.2	0.8	0.4	A0	IV
102945383	16.4	15.8	0.203	0.197	0.613	2.75	3.6	7258	917	4.4	0.7	0.2	0.5	A7	V
102951183	15.9	15.1	0.401	0.212	0.378	2.61	3.9	5743	944	4.1	1.1	0.1	1.0	G8	V
102951579	16.6	15.9	0.163	0.191	0.773	2.74	2.5	7067	1079	4.0	0.3	0.0	0.4	F5	V
102957939	15.9	15.1	0.091	0.265	1.052	2.85	1.0	7977	150	3.7	0.0	0.7	0.0	A0	V
102962184	16.6	15.7	0.249	0.168	0.546	2.69	3.0	6763	1052	4.2	1.0	0.1	-	A0	V
102962208	16.4	15.7	0.283	0.092	0.373	2.64	4.0	6413	821	4.5	0.9	-1.2	-	F8	IV
102963171	15.8	14.9	0.419	0.248	0.361	2.62	4.3	5729	899	4.4	0.8	0.2	0.9	G2	V
102965963	16.7	15.7	0.159	0.159	1.031	2.75	-0.2	7077	989	2.9	1.0	-0.1	1.4	A5	IV
102967392	16.1	15.3	0.154	0.191	0.822	2.79	2.2	7427	676	3.9	0.7	0.0	1.0	A5	IV
102761878	14.3	13.7	0.178	0.196	0.934	2.72	0.5	6848	238	3.1	0.4	0.2	1.0	F9	V
102776267	15.6	15.1	0.016	0.185	1.000	2.91	1.6	9152	150	4.2	0.0	0.0	0.0	F8	V

Table A.1. continued.

CoID	Bmag [mag]	Vmag [mag]	(b - y)0	m0	c0	H β	M _v [mag]	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	SPrtype	Class
102776947	13.6	13.0	0.288	0.072	0.415	2.61	3.6	6246	135	4.0	0.3	-1.7	0.9	G2	V
102778350	14.6	14.1	0.053	0.212	0.960	2.91	2.1	8539	456	4.2	0.3	0.0	0.0	F7	V
102778352	15.5	14.8	0.045	0.193	1.089	2.90	1.3	8447	150	4.0	0.0	0.0	0.0	G7	III
102779171	13.9	13.4	0.175	0.091	0.880	2.75	1.1	7114	160	3.4	0.2	-0.9	0.6	F5	V
102780229	15.6	14.9	0.078	0.160	0.973	2.86	1.8	8081	970	4.0	0.4	-0.3	0.7	G5	IV
102782199	13.1	12.5	0.274	0.204	0.528	2.68	2.9	6635	99	4.2	0.3	0.6	0.7	F7	V
102782617	14.6	13.8	0.177	0.199	0.955	2.73	0.3	6879	226	3.0	0.3	0.3	0.5	G7	III
102783141	13.7	13.2	0.100	0.193	1.109	2.82	0.0	7631	145	3.3	0.2	0.0	0.7	F5	III
102783622	15.5	14.9	0.113	0.259	0.857	2.85	2.7	7993	608	4.3	0.3	0.7	0.4	F8	V
102787451	14.6	13.7	0.228	0.172	0.919	2.84	-0.3	7900	264	2.6	0.5	0.1	0.3	G9	III
102787645	13.8	13.3	0.306	0.210	0.504	2.66	2.9	6432	185	4.0	0.3	0.7	0.6	F5	V
102787863	12.8	12.3	0.190	0.239	0.729	2.77	2.7	7319	83	4.1	0.2	0.6	0.4	F4	V
102787904	15.5	14.7	0.214	0.211	0.627	2.74	3.3	7161	439	4.3	0.4	0.4	0.6	G7	IV
102792668	14.7	14.1	0.121	0.159	0.776	2.83	3.2	7848	247	4.4	0.2	-0.3	0.4	F7	V
102793218	15.2	14.3	0.254	0.145	0.577	2.68	2.5	6621	459	3.9	0.6	-0.3	1.2	G9	III
102794372	14.3	13.7	0.361	0.200	0.373	2.62	4.0	6017	341	4.4	0.5	0.2	0.6	F9	V
102794767	15.0	14.3	0.272	0.157	0.500	2.66	3.1	6432	381	4.2	0.3	-0.1	1.3	G7	III
102795091	14.1	13.5	0.122	0.235	1.000	2.74	0.9	6992	179	3.6	0.2	0.4	0.4	F8	V
102795463	14.7	14.1	0.187	0.071	0.721	2.76	2.6	7216	240	4.0	0.3	-1.2	0.5	F9	V
102796566	14.5	13.9	0.139	0.235	0.876	2.87	2.0	8229	357	3.9	0.2	0.4	0.5	F9	IV
102796664	15.7	15.1	0.140	0.190	0.986	2.78	0.6	7341	644	3.3	0.6	0.0	0.5	F5	V
102797109	14.7	14.1	0.151	0.229	0.834	2.80	2.2	7519	277	4.0	0.3	0.4	0.5	F9	V
102797200	15.5	15.0	0.199	0.152	1.009	2.71	-0.8	6713	627	2.5	0.9	0.2	-	F8	V
102798592	13.7	13.3	0.077	0.277	1.090	2.88	0.8	8373	712	3.8	0.2	0.9	0.4	F3	III
102799277	14.0	13.3	0.046	0.186	1.085	2.89	1.1	8453	193	3.9	0.2	0.0	0.0	G2	V
102799381	13.7	13.3	-0.017	0.171	0.933	2.77	1.6	7234	137	4.5	0.2	0.0	0.0	F6	III
102799615	13.9	13.4	0.088	0.216	0.949	2.69	1.9	6473	201	4.0	0.2	0.2	0.4	F4	V
102805003	15.3	14.5	0.130	0.282	0.891	2.83	2.1	7803	445	4.0	0.4	0.9	0.5	G3	V
102805220	13.5	13.0	0.206	0.051	0.712	2.73	2.4	7025	113	3.9	0.2	-1.3	0.6	F4	V
102805624	13.0	12.4	0.322	0.158	0.392	2.61	3.8	6103	164	4.2	0.5	-0.2	1.3	F5	III

Table A.1. continued.

ColD	Bmag [mag]	Vmag [mag]	(b - y)0	m ₀	c ₀	H β	M _v [mag]	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	SPrtype	Class
102806056	14.1	13.6	0.060	0.207	0.956	2.88	1.8	8454	219	4.2	0.2	0.0	0.0	F3	IV
102806252	13.7	13.2	0.304	0.187	0.435	2.63	3.6	6072	209	4.4	0.4	0.3	1.1	G0	III
102806336	13.7	13.1	0.125	0.187	0.922	2.76	1.6	7191	113	3.8	0.3	-0.0	1.0	F8	IV
102806377	13.5	13.1	0.133	0.254	1.048	2.80	2.3	7473	147	4.0	0.0	0.0	0.0	A0	V
102806520	14.5	13.9	0.173	0.100	0.993	2.74	-0.1	6960	242	2.9	0.4	-0.7	0.5	F9	III
102808143	16.1	15.2	0.184	0.209	0.767	2.76	2.3	7239	675	3.9	0.6	0.3	0.7	K0	V
102809676	15.4	14.6	0.116	0.247	1.116	2.92	2.2	8833	116	3.8	0.2	0.0	0.0	G6	IV
102809868	14.9	14.3	0.084	0.224	0.936	2.88	2.1	8315	686	4.3	0.2	0.0	0.0	F9	V
102811578	12.8	12.5	0.066	0.212	1.046	2.82	1.8	7647	95	4.0	0.0	0.0	0.0	A5	IV
102811740	13.7	13.1	0.112	0.235	0.938	2.83	1.7	7785	146	3.9	0.2	0.4	0.5	F8	III
102811860	14.1	13.4	0.346	0.208	0.714	2.62	0.9	5938	159	2.3	0.5	0.4	0.6	F8	IV
102812175	13.5	12.8	0.361	0.227	0.407	2.63	3.7	6029	255	4.3	0.4	0.7	0.9	G1	IV
102813023	12.7	12.4	0.093	0.290	1.027	2.81	1.3	7593	85	3.9	0.2	1.0	0.4	A5	V
102813317	16.0	15.2	0.157	0.250	1.014	2.77	0.3	7267	724	3.2	0.7	0.7	0.5	K0	IV
102813622	15.0	14.3	0.203	0.135	0.674	2.74	2.8	7119	316	4.1	0.3	-0.3	0.4	G4	III
102814109	13.8	13.3	0.118	0.269	0.886	2.87	2.3	8227	218	4.1	0.2	0.8	0.3	A0	V
102814980	15.4	14.7	0.019	0.162	1.179	2.90	0.4	8779	612	3.6	0.5	0.0	0.0	G3	IV
102815482	15.9	15.1	0.120	0.272	1.094	2.81	0.1	7614	150	3.3	0.0	0.8	0.0	G9	IV
102816353	14.8	14.3	0.161	0.293	0.962	2.92	3.5	9165	150	4.3	0.0	0.0	0.0	F2	V
102817337	14.9	14.2	0.187	0.123	0.734	2.66	2.5	6246	384	4.0	0.2	-0.5	0.4	G6	III
102817599	13.7	13.1	0.228	0.208	0.644	2.71	2.5	6847	125	3.9	0.3	0.6	0.5	F9	II
102817900	13.3	12.9	0.128	0.210	1.127	2.80	-0.7	7539	139	2.9	0.3	0.2	0.4	A5	V
102819647	13.3	12.8	0.153	0.258	0.755	2.81	3.2	7631	118	4.3	0.2	0.7	0.4	F3	III
102821332	15.8	15.2	-0.003	0.175	1.022	2.92	1.5	9546	150	4.3	0.0	0.0	0.0	G4	IV
102821931	13.4	12.9	0.145	0.149	0.957	2.78	0.8	7329	96	3.4	0.2	-0.3	0.4	F3	V
102822124	14.5	13.9	0.306	0.229	0.427	2.66	3.5	6432	252	4.5	0.3	1.0	0.9	F0	V
102822261	14.4	13.9	0.075	0.210	0.962	2.87	1.9	8145	309	4.1	0.3	0.2	0.4	F4	V
102822304	14.4	13.8	0.165	0.188	0.890	2.80	1.2	7510	198	3.5	0.2	0.1	0.4	G3	III
102822313	13.7	13.1	0.128	0.180	1.188	2.77	-1.4	7221	112	2.6	0.2	-0.0	0.4	F9	II
102822774	15.0	14.2	0.242	0.182	0.564	2.70	3.0	6819	285	4.2	0.4	0.3	0.9	G7	III

Table A.1. continued.

CoID	Bmag [mag]	Vmag [mag]	(b - y)0	m0	c0	H β	M _v [mag]	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	SPrtype	Class
102822863	13.6	13.1	0.145	0.174	0.907	2.87	1.4	8225	166	3.6	0.2	-0.1	0.5	F5	III
102823372	15.9	14.9	0.375	0.178	0.378	2.61	3.9	5870	716	4.1	0.9	-0.2	0.8	K2	III
102825739	13.9	13.3	0.325	0.179	0.445	2.64	3.4	6290	149	4.2	0.3	0.1	0.6	F6	V
102826498	15.5	14.7	0.213	0.218	1.065	2.70	-1.5	6631	650	2.1	1.0	0.6	-	A0	V
102827236	14.6	13.9	0.116	0.220	0.815	2.84	2.9	7890	213	4.3	0.3	0.2	0.4	G4	III
102828251	13.2	12.9	0.160	0.172	0.762	2.76	2.3	7223	100	3.9	0.2	-0.0	0.5	A8	III
102829593	14.6	14.0	0.146	0.172	0.970	2.76	0.7	7179	261	3.3	0.2	-0.1	0.3	A5	IV
102830263	14.1	13.5	0.311	0.171	0.481	2.65	3.1	6341	170	4.0	0.4	0.1	1.0	F8	III
102830877	15.4	14.4	0.023	0.426	0.879	2.83	-2.6	7809	495	2.4	0.8	0.0	0.0	A5	IV
102832886	14.5	14.1	0.099	0.247	0.996	2.91	1.4	8788	150	3.8	0.2	0.5	0.5	A5	V
102833285	13.4	13.0	0.115	0.215	0.758	2.74	0.5	7060	94	3.4	0.2	0.1	0.3	F0	IV
102833634	13.4	13.1	0.137	0.275	0.961	2.86	3.2	8073	148	4.3	0.0	0.0	0.0	A0	V
102834189	15.3	14.6	0.368	0.157	0.406	2.60	3.7	5859	535	3.8	0.9	-0.4	0.5	F8	IV
102835917	13.0	12.6	0.115	0.184	1.010	2.81	0.8	7597	84	3.5	0.2	-0.0	0.3	F2	V
102835987	14.3	13.6	-0.005	0.176	0.996	2.92	1.6	9643	150	4.3	0.0	0.0	0.0	A0	V
102836217	15.2	14.5	0.137	0.207	0.828	2.86	2.4	8090	378	4.0	0.2	0.1	0.5	G3	V
102837432	15.8	15.1	0.325	0.157	0.444	2.63	3.4	6172	604	4.0	0.8	-0.2	1.7	G4	V
102838918	14.9	14.1	0.366	0.219	0.486	2.62	3.0	5936	339	3.6	0.6	0.5	1.1	G2	V
102839037	15.4	14.6	0.125	0.141	1.047	2.79	0.2	7429	377	3.3	0.4	-0.4	0.3	G6	III
102839752	12.9	12.6	0.036	0.199	1.021	2.90	1.8	8565	229	4.2	0.0	0.0	0.0	A9	V
102840244	14.1	12.7	-0.043	0.320	0.327	2.64	-0.9	6168	220	4.5	0.1	0.0	0.0	K8	III
102840317	13.1	12.6	0.261	0.230	0.522	2.66	3.1	6458	119	4.2	0.3	1.0	0.5	A5	V
102840696	13.3	12.6	0.175	0.139	0.814	2.75	1.8	7137	85	3.7	0.2	-0.3	0.5	G3	IV
102841538	14.6	14.1	0.102	0.288	0.946	2.81	2.0	7625	323	4.1	0.2	1.0	0.6	A5	V
102842005	13.2	12.9	-0.005	0.257	0.893	2.79	-2.7	7453	101	2.8	0.7	0.0	0.0	A7	IV
102842404	13.3	12.9	0.182	0.219	0.819	2.81	1.8	7668	118	3.7	0.2	0.4	0.4	A0	V
102842473	14.8	14.1	-0.036	0.342	0.362	2.62	-0.7	5829	565	4.5	0.1	0.0	0.0	G8	V
102842638	15.4	14.7	0.119	0.247	0.921	2.83	1.8	7770	509	3.9	0.4	0.5	0.9	A0	V
102843485	14.0	13.6	-0.006	0.229	0.940	2.83	-1.4	7765	181	3.1	0.2	0.0	0.0	A0	V
102843768	13.9	13.4	0.088	0.247	1.035	2.85	1.1	7978	167	3.8	0.2	0.5	0.4	F5	V

Table A.1. continued.

ColD	Bmag [mag]	Vmag [mag]	(b - y)0	m ₀	c ₀	H β	M _v [mag]	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	Sptype	Class
102844055	13.9	13.2	-0.049	0.286	0.324	2.61	-0.9	5912	214	4.5	0.1	0.0	0.0	A7	V
102844466	16.1	15.3	0.303	0.186	0.468	2.66	3.2	6469	626	4.2	0.7	0.3	1.4	G9	III
102844475	15.0	14.4	0.208	0.108	0.669	2.73	1.3	7025	378	3.3	0.3	-1.1	-	A5	V
102845792	14.5	13.9	0.361	0.144	0.465	2.61	3.2	5878	222	3.4	0.6	-0.5	0.5	F7	V
102846260	13.7	13.0	0.027	0.157	0.233	2.61	2.8	5929	324	3.5	0.0	0.0	0.0	G2	V
102846492	13.0	12.7	0.088	0.246	1.021	2.89	1.3	8489	277	3.8	0.3	0.5	0.7	F1	III
102847193	15.7	14.9	0.057	0.195	1.120	2.90	1.2	8819	447	3.8	0.5	0.0	0.0	G5	V
102847269	15.1	14.3	0.126	0.244	1.002	2.81	0.9	7589	312	3.5	0.3	0.5	1.2	K0	III
102847367	14.6	14.0	0.099	0.264	0.932	2.86	2.1	8066	274	4.1	0.3	0.7	0.5	F8	V
102847654	15.2	14.5	0.314	0.126	0.370	2.62	4.0	6220	357	4.4	0.6	-0.6	0.5	F8	IV
102848183	15.4	14.7	0.072	0.228	0.978	2.88	1.8	8245	150	4.1	0.0	0.4	0.0	G2	V
102848506	13.7	13.2	0.093	0.255	0.859	2.88	2.9	8253	155	4.4	0.2	0.6	0.4	F8	IV
102848985	13.3	12.7	0.123	0.225	1.173	2.78	-1.0	7335	100	2.8	0.2	0.4	0.7	F9	V
102849120	15.0	14.3	0.142	0.216	0.787	2.81	2.8	7635	337	4.2	0.5	0.2	1.9	A5	V
102849677	15.8	14.4	0.510	0.369	0.373	2.61	6.2	5287	5287	4.5	2.7	0.1	-	M0	V
102850560	14.2	13.6	0.080	0.143	0.984	2.86	1.6	8036	175	3.9	0.2	-0.4	1.0	G0	IV
102851087	14.5	13.9	0.368	0.179	0.422	2.62	3.5	5928	263	3.9	0.7	-0.2	0.8	F7	V
102851171	15.4	14.7	0.287	0.091	0.519	2.62	2.7	6231	208	3.5	0.6	-1.2	0.4	G2	V
102851182	14.1	13.7	0.196	0.200	0.760	2.74	2.1	7107	146	3.8	0.3	0.2	0.6	F3	V
102852229	13.9	13.3	-0.008	0.363	0.644	2.67	0.4	6424	4081	4.5	0.3	0.0	0.0	A5	V
102852262	13.9	13.3	0.331	0.195	0.498	2.64	2.9	6223	162	3.8	0.5	0.3	0.9	F8	V
102852305	14.9	14.3	0.129	0.112	0.824	2.82	2.6	7689	335	4.1	0.3	-0.8	0.5	F7	V
102853981	14.4	13.9	0.152	0.142	0.938	2.77	0.9	7274	193	3.4	0.2	-0.3	0.4	F8	V
102854314	14.2	13.7	0.103	0.238	0.993	2.89	2.3	8515	1756	4.1	0.2	0.0	0.0	A0	V
102855041	14.6	13.8	0.244	0.149	0.909	2.68	-0.5	6420	217	2.4	0.4	-0.2	1.3	G7	III
102855047	15.0	14.3	0.269	0.175	0.744	2.67	0.9	6429	308	3.0	0.5	0.2	0.9	G7	III
102855391	15.9	15.2	0.227	0.141	0.552	2.70	3.1	6844	645	4.3	0.7	-0.3	-	G2	V
102855534	14.7	14.1	0.170	0.243	0.903	2.77	1.2	7266	286	3.5	0.5	0.6	1.2	A5	V
102856178	12.9	12.4	0.051	0.166	1.234	2.83	-0.6	7809	102	3.4	0.2	-0.2	0.4	A0	V
102856267	12.8	12.4	0.091	0.177	0.971	2.84	1.6	7904	82	3.9	0.2	-0.1	0.3	F3	V

Table A.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	$(b-y)_0$	m_0	c_0	$H\beta$	M_v [mag]	T_{eff} [K]	ΔT_{eff} [K]	$\log g$ [dex]	$\Delta \log g$ [dex]	M/H [dex]	$\Delta M/H$ [dex]	SPrtype	Class
102856307	14.6	13.9	0.420	0.242	0.370	2.60	4.3	5645	296	4.2	0.7	0.2	0.4	G1	V
102856362	15.3	14.6	0.260	0.160	0.476	2.69	3.5	6730	336	4.5	0.4	-0.0	0.6	A5	V
102856510	14.4	13.8	0.202	0.169	0.599	2.75	3.7	7256	167	4.5	0.3	-0.1	0.9	F7	V
102856689	13.3	12.8	0.142	0.269	1.007	2.91	2.8	8782	150	4.1	0.0	0.0	0.0	F3	IV
102856703	14.9	14.2	0.293	0.149	0.603	2.65	2.0	6234	354	3.3	0.6	-0.2	0.6	G4	V
102857336	15.3	14.8	0.170	0.204	0.956	2.75	0.4	7085	414	3.1	0.5	0.3	0.5	A0	V
102858363	13.9	13.2	0.076	0.257	1.075	2.87	0.9	8137	223	3.8	0.2	0.7	0.4	G1	V
102858523	13.5	13.3	0.080	0.091	0.873	2.84	-0.3	7876	153	3.1	0.2	-0.6	0.3	A0	IV
102858627	14.9	14.3	0.108	0.126	1.071	2.83	0.3	7796	352	3.4	0.2	-0.6	0.5	A5	V
102858680	15.7	15.1	0.260	0.137	0.589	2.67	2.3	6512	535	3.7	0.7	-0.4	0.7	A5	IV
102859077	14.8	14.2	0.213	0.226	0.641	2.64	3.3	6104	346	4.3	0.5	0.5	0.6	F5	IV
102859125	13.0	12.3	0.287	0.150	0.527	2.65	2.7	6327	96	3.9	0.3	-0.2	0.6	A7	V
102859659	14.2	13.7	0.338	0.107	0.501	2.60	2.8	5938	183	3.1	0.5	-0.9	0.2	A5	IV
102860066	13.0	12.3	-0.050	0.284	0.320	2.60	-0.9	5881	233	4.5	0.2	0.0	0.0	G2	V
102860502	13.6	13.1	0.128	0.269	0.980	2.82	1.2	7666	124	3.7	0.2	0.8	0.4	F7	V
102860542	15.2	14.6	0.119	0.248	0.851	2.84	2.6	7875	360	4.2	0.3	0.5	1.0	G0	V
102861123	14.2	13.7	0.078	0.185	0.900	2.87	2.5	8182	236	4.3	0.2	-0.0	0.4	F6	V
102861472	15.4	14.7	0.310	0.085	0.496	2.60	2.9	6068	361	3.3	0.8	-1.3	0.7	F8	IV
102861544	14.8	14.1	-0.043	0.333	0.297	2.62	-1.0	5890	294	4.5	0.1	0.0	0.0	G2	V
102861585	14.4	14.1	0.022	0.194	0.991	2.81	1.9	7644	227	4.3	0.2	0.0	0.0	A5	IV
102861786	15.2	14.6	0.372	0.160	0.503	2.61	2.8	5853	471	3.2	1.0	-0.4	0.6	A7	V
102862454	15.3	14.8	0.070	0.194	0.941	2.87	2.2	8233	614	4.2	0.3	0.0	0.4	A5	IV
102862464	14.3	13.8	0.067	0.206	1.107	2.90	1.5	8845	898	3.8	0.6	0.0	0.0	F7	V
102863544	13.2	12.9	0.069	0.106	1.109	2.78	0.5	7351	117	3.6	0.2	-0.9	0.5	A5	IV
102863619	13.7	13.2	0.096	0.229	1.063	2.90	2.0	8832	150	4.0	0.0	0.0	0.0	F7	V
102863676	12.6	12.2	0.265	0.165	0.573	2.67	2.5	6469	77	3.9	0.3	0.0	0.6	F6	V
102863929	13.9	13.3	0.348	0.224	0.412	2.64	3.6	6127	279	4.4	0.5	0.7	1.3	F7	V
102863996	12.8	12.4	0.066	0.130	1.251	2.82	-1.0	7674	105	3.1	0.2	-0.6	0.4	A5	IV
102864182	14.0	13.5	-0.033	0.240	0.601	2.73	0.2	7036	134	4.5	0.1	0.0	0.0	F5	V
102864241	14.1	13.7	0.191	0.295	1.053	2.90	3.0	8761	150	4.0	0.0	0.0	0.0	A0	V

Table A.1. continued.

ColD	Bmag [mag]	Vmag [mag]	(b - y)0	m ₀	c ₀	H β	M _v [mag]	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	SPrtype	Class
102864379	13.8	13.2	-0.046	0.315	0.302	2.62	-1.7	6043	134	3.9	0.3	0.0	0.0	G2	V
102865275	14.6	14.2	-0.011	0.204	0.928	2.72	-1.3	9782	396	3.2	0.2	0.0	0.0	A0	V
102865707	14.3	13.6	0.142	0.246	1.130	2.88	1.8	8527	297	3.7	0.1	0.0	0.0	G2	V
102865939	13.6	13.1	0.187	0.210	0.771	2.68	2.2	6452	153	3.9	0.5	0.3	0.5	A5	V
102866280	15.4	14.7	0.277	0.119	0.448	2.60	3.4	6006	291	4.3	0.3	-0.7	0.5	G2	V
102866321	13.9	13.5	0.056	0.191	1.079	2.88	1.1	8381	300	3.9	0.4	0.0	0.0	A5	IV
102866397	14.7	14.2	0.065	0.238	1.039	2.78	1.3	7323	241	4.0	0.4	0.5	0.6	A5	V
102866578	13.6	13.2	-0.023	0.149	1.133	2.91	0.7	9716	874	4.0	0.2	0.0	0.0	A5	IV
102867684	12.6	12.4	0.105	0.241	0.971	2.84	2.4	7827	67	4.2	0.2	0.0	0.0	A5	V
102868165	15.7	14.5	0.186	0.264	1.094	2.71	-1.6	6674	425	2.1	0.7	0.9	-	M1	V
102868289	13.3	12.6	-0.031	0.385	0.333	2.62	-0.8	5925	133	4.5	0.1	0.0	0.0	G8	V
102869149	13.7	13.2	0.202	0.237	0.797	2.82	1.8	7731	145	3.7	0.2	0.6	0.5	A5	IV
102869239	15.0	14.4	0.068	0.282	1.235	2.86	-0.6	8242	413	3.4	0.3	0.9	0.9	F5	V
102869289	13.4	12.9	0.058	0.199	0.410	2.65	3.2	6279	112	4.1	0.0	0.0	0.0	A5	V
102869445	15.1	14.2	0.138	0.261	1.138	2.92	2.4	8704	964	3.7	0.5	0.0	0.0	A0	V
102869544	14.0	13.3	0.305	0.197	0.441	2.66	3.5	6531	146	4.4	0.3	0.5	0.6	F8	IV
102873982	15.3	14.7	0.202	0.249	0.700	2.76	2.9	7272	304	4.2	0.3	0.7	0.3	A5	IV
102874222	15.9	15.1	0.341	0.170	0.433	2.63	3.4	6078	759	4.0	0.9	-0.1	0.7	G8	III
102874481	14.4	13.9	0.075	0.230	1.029	2.90	1.3	8627	150	3.9	0.3	0.4	0.3	A0	IV
102874490	13.4	13.1	-0.018	0.209	0.843	2.82	-2.9	7727	103	2.4	0.2	0.0	0.0	A5	IV
102874697	15.1	14.6	0.090	0.149	1.078	2.83	0.5	7787	388	3.5	0.3	-0.4	0.4	A0	V
102875974	15.2	14.6	0.346	0.191	0.390	2.63	3.8	6119	516	4.4	0.6	0.2	0.7	F6	V
102876178	14.6	14.1	0.207	0.205	1.007	2.71	-0.8	6714	280	2.5	0.5	0.5	0.8	F5	V
102876278	15.0	14.2	0.283	0.198	0.483	2.68	3.3	6616	312	4.3	0.5	0.5	0.8	G6	III
102876354	16.0	15.1	0.322	0.176	0.472	2.64	3.1	6269	546	4.0	0.7	0.1	1.2	A5	V
102877116	12.5	12.3	0.084	0.280	1.031	2.90	1.3	8757	150	3.9	0.2	0.9	0.5	A5	V
102877984	14.3	13.7	0.326	0.188	0.404	2.65	3.7	6360	239	4.5	0.4	0.3	0.6	G0	V
102878176	14.5	14.1	0.119	0.245	0.857	2.84	2.5	7863	229	4.2	0.2	0.5	0.4	A0	V
102878508	13.3	12.9	0.110	0.206	0.865	2.83	2.4	7840	112	4.1	0.2	0.1	0.4	F2	V
102879175	14.1	13.4	0.283	0.117	0.462	2.64	3.2	6325	111	4.1	0.3	-0.7	0.5	G2	V

Table A.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	$(b-y)_0$	m_0	c_0	$H\beta$	M_v [mag]	T_{eff} [K]	ΔT_{eff} [K]	$\log g$ [dex]	$\Delta \log g$ [dex]	M/H [dex]	$\Delta \text{M/H}$ [dex]	SPrtype	Class
102879180	12.8	12.3	0.149	0.246	0.962	2.73	0.9	6912	70	3.5	0.2	0.6	0.3	A5	V
102879375	14.2	13.7	0.219	0.253	0.654	2.75	3.1	7190	160	4.2	0.2	0.8	0.4	F5	IV
102881588	14.1	13.7	0.199	0.210	0.914	2.72	0.3	6837	203	3.0	0.3	0.5	0.5	F5	V
102882293	15.0	14.5	0.158	0.214	0.819	2.78	2.2	7429	300	3.9	0.3	0.3	0.4	A0	V
102882944	14.1	13.5	0.319	0.229	0.408	2.60	3.7	6055	112	4.5	0.3	0.9	0.7	F8	V
102883835	14.9	14.4	0.210	0.258	0.708	2.75	2.7	7197	248	4.1	0.3	0.8	0.6	F8	IV
102884106	12.8	12.4	0.074	0.211	0.995	2.86	1.6	8111	101	4.0	0.1	0.2	0.4	F4	III
102885826	14.3	13.7	0.371	0.230	0.435	2.62	3.4	5937	411	4.0	0.5	0.7	1.7	G0	III
102886246	15.7	15.0	0.402	0.213	0.334	2.60	4.3	5734	710	4.5	0.7	0.0	0.6	F8	IV
102887167	14.8	14.3	0.097	0.270	0.943	2.74	2.0	6985	388	4.1	0.2	0.8	0.3	A0	V
102890376	13.8	13.2	0.265	0.227	0.605	2.61	2.3	8501	3858	3.8	0.3	0.9	0.8	A5	V
102892715	15.0	14.1	0.345	0.126	0.439	2.60	3.4	5946	275	3.6	0.6	-0.7	0.3	A5	V
102892874	13.7	13.1	0.238	0.224	0.593	2.67	2.7	6463	127	4.1	0.3	0.8	0.5	F6	V
102892977	14.5	14.0	0.132	0.290	0.905	2.83	2.0	7781	361	4.0	0.3	1.0	0.3	A0	V
102893719	15.7	15.0	0.261	0.226	0.477	2.69	3.5	6758	662	4.5	0.6	0.9	0.6	F8	IV
102894065	13.9	13.5	0.199	0.377	0.964	2.92	3.6	9198	150	4.2	0.2	0.0	0.0	F2	V
102894475	14.3	13.6	-0.026	0.294	0.575	2.63	-0.7	6032	140	3.8	0.2	0.0	0.0	A5	IV
102895107	14.5	14.0	0.329	0.181	0.406	2.63	3.7	6198	251	4.3	0.9	0.1	1.7	F6	V
102895397	14.4	13.9	0.088	0.262	0.885	2.88	2.7	8305	252	4.4	0.1	0.7	0.5	F8	IV
102896324	14.7	14.0	0.092	0.197	1.030	2.84	0.9	7824	252	3.7	0.2	0.0	0.6	A0	V
102896573	14.3	13.7	0.239	0.141	0.695	2.76	1.5	7297	175	3.4	0.3	-0.3	0.6	A5	IV
102897488	14.4	13.8	0.237	0.146	0.573	2.70	2.8	6764	218	4.1	0.3	-0.3	0.7	A5	V
102897879	13.1	12.8	0.098	0.239	0.921	2.88	2.1	8303	171	4.1	0.2	0.5	0.6	A0	V
102897973	15.2	14.6	0.182	0.173	0.905	2.74	0.7	6986	538	3.2	0.6	0.0	0.3	A5	IV
102898786	14.1	13.4	0.246	0.123	0.551	2.61	2.7	6007	247	4.0	0.3	-0.7	0.8	F8	IV
102899666	15.5	14.6	0.297	0.164	0.455	2.66	3.4	6468	403	4.3	0.5	-0.0	0.6	G2	V
102899709	13.6	13.0	0.222	0.240	0.721	2.81	1.6	7663	139	3.5	0.3	0.9	0.3	A5	V
102901168	13.8	13.2	-0.013	0.202	0.908	2.70	-2.1	9910	673	3.0	0.5	0.0	0.0	A0	V
102901469	13.0	12.7	0.138	0.334	1.090	2.90	2.2	8885	2795	3.8	0.2	0.0	0.0	A5	V
102901718	15.5	14.8	0.284	0.205	0.642	2.67	1.8	6447	601	3.4	0.8	0.6	1.2	A5	IV

Table A.1. continued.

ColD	Bmag [mag]	Vmag [mag]	(b - y)0	m ₀	c ₀	H β	M _v [mag]	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	Sptype	Class
102902456	12.9	12.3	0.128	0.261	0.868	2.74	2.3	6987	94	4.1	0.2	0.7	0.6	A5	IV
102902696	14.0	13.6	0.124	0.198	0.857	2.82	2.3	7696	158	4.0	0.2	0.0	1.3	F6	V
102903058	13.7	13.2	0.140	0.235	0.936	2.87	1.3	8190	150	3.6	0.2	0.5	0.3	A5	IV
102903251	14.1	13.4	0.255	0.205	0.490	2.70	3.5	6806	132	4.5	0.3	0.6	0.6	F8	IV
102904934	14.0	13.4	0.322	0.207	0.425	2.63	3.6	6107	208	4.4	0.3	0.6	0.7	G0	V
102905130	13.8	13.2	0.130	0.216	0.981	2.80	0.9	7483	129	3.5	0.2	0.2	0.5	F9	IV
102905652	13.3	13.1	0.101	0.250	0.936	2.79	2.8	7395	153	4.3	0.1	0.0	0.0	A0	V
102906119	13.0	12.6	0.212	0.222	0.711	2.74	2.5	7084	87	3.9	0.2	0.5	1.3	F2	V
102906430	14.1	13.7	0.148	0.255	0.928	2.79	1.4	7478	136	3.6	0.2	0.7	0.4	A5	V
102907101	14.0	13.6	0.103	0.240	1.107	2.92	2.2	8878	342	3.9	0.3	0.0	0.0	F3	V
102907408	14.5	14.1	0.104	0.146	1.104	2.81	0.0	7594	258	3.3	0.3	-0.4	0.8	F4	V
102907985	12.9	12.6	0.148	0.282	0.916	2.89	3.0	8378	155	4.3	0.2	0.0	0.0	A9	V
102909029	16.0	15.3	0.156	0.275	0.948	2.79	1.1	7427	627	3.5	0.6	0.9	0.5	G7	IV
102909181	15.6	15.1	0.301	0.192	0.702	2.66	1.1	6248	534	2.9	0.8	0.4	0.7	A5	IV
102909260	13.3	12.7	0.333	0.208	0.436	2.65	3.4	6341	124	4.2	0.3	0.5	0.8	F8	V
102909525	15.2	14.8	0.164	0.237	0.801	2.79	2.4	7462	447	4.0	0.4	0.5	1.0	F4	V
102909688	13.5	13.3	0.176	0.103	0.908	2.72	0.4	6839	137	3.0	0.2	-0.6	0.5	A8	V
102910282	14.3	13.5	0.188	0.252	0.893	2.75	1.0	7126	170	3.4	0.2	0.8	0.6	G6	III
102910610	14.0	13.6	0.072	0.233	0.962	2.79	2.0	7413	236	4.2	0.1	0.4	0.4	A5	V
102910672	14.3	13.8	0.321	0.156	0.632	2.61	1.7	5987	2637	2.7	2.6	-0.2	0.5	F8	IV
102910755	13.5	12.9	0.306	0.223	0.441	2.62	3.5	5973	143	4.4	0.3	0.9	1.2	F6	V
102911074	14.7	14.2	0.202	0.227	0.703	2.76	2.8	7217	230	4.1	0.2	0.5	0.4	A5	IV
102911529	14.6	13.9	0.236	0.234	0.721	2.70	1.5	6676	269	3.4	0.4	0.9	0.7	G3	V
102911697	14.2	13.9	0.078	0.211	0.985	2.86	1.6	8068	265	4.0	0.2	0.2	1.0	A9	V
102912483	13.3	13.0	-0.004	0.236	0.953	2.74	-2.2	7015	135	2.8	0.4	0.0	0.0	A2	V
102912578	14.6	14.0	0.023	0.474	0.787	2.78	-0.5	7363	220	3.6	0.2	0.0	0.0	F5	V
102913397	15.3	14.6	0.269	0.136	0.521	2.67	2.8	6504	373	4.0	0.5	-0.4	0.5	G7	III
102913667	13.8	13.4	0.221	0.224	0.646	2.62	2.5	6212	133	3.9	0.3	0.7	0.1	F3	V
102913770	14.4	14.0	0.133	0.228	0.911	2.81	1.7	7590	191	3.8	0.2	0.4	0.4	A5	IV
102913781	14.3	13.7	0.039	0.180	1.095	2.89	0.9	8558	239	3.8	0.2	0.0	0.0	G2	III

Table A.1. continued.

CoID	Bmag [mag]	Vmag [mag]	(b - y)0	m0	c0	H β	M _v [mag]	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	SPrtype	Class
102914297	15.3	14.4	0.269	0.123	0.438	2.66	3.5	6501	391	4.4	0.5	-0.6	1.0	G8	III
102914335	13.4	12.8	-0.043	0.323	0.319	2.61	-0.9	6075	162	4.5	0.1	0.0	0.0	F5	V
102915010	14.9	14.5	0.167	0.282	1.019	2.90	2.9	8651	150	4.1	0.0	0.0	0.0	A0	V
102915408	12.7	12.3	0.001	0.292	0.896	2.72	-2.9	6831	82	2.4	0.6	0.0	0.0	A5	V
102918373	15.4	14.7	0.260	0.150	0.466	2.68	3.5	6707	430	4.5	0.5	-0.2	0.7	G0	V
102918375	13.0	12.6	0.155	0.253	0.799	2.76	2.7	7240	89	4.1	0.2	0.6	0.4	A0	V
102919605	14.2	13.6	0.350	0.224	0.398	2.64	3.8	6116	328	4.5	0.5	0.7	1.2	G0	V
102920013	14.7	14.4	0.102	0.269	0.935	2.86	2.0	8034	358	4.1	0.3	0.8	0.4	A0	V
102920385	14.8	14.3	0.201	0.310	0.911	2.89	3.6	8378	603	4.3	0.2	0.0	0.0	F5	V
102920737	14.3	13.8	0.156	0.230	0.809	2.76	2.4	7195	193	4.0	0.2	0.4	0.3	A0	V
102921011	13.1	12.6	0.283	0.194	0.498	2.62	3.1	5999	149	4.2	0.3	0.4	0.6	F6	V
102921211	15.8	15.1	0.233	0.123	0.658	2.68	1.8	6591	631	3.6	0.8	-0.7	-	G5	IV
102921797	13.5	12.8	0.002	0.306	0.874	2.68	-1.5	6427	120	3.2	0.3	0.0	0.0	G5	III
102921838	15.0	14.5	0.176	0.229	0.748	2.79	2.7	7484	317	4.1	0.2	0.4	0.4	A0	V
102922142	15.1	14.4	0.328	0.132	0.425	2.62	3.5	6129	358	4.0	0.6	-0.5	0.5	G3	V
102922740	14.8	14.1	0.356	0.219	0.382	2.63	3.9	6071	404	4.5	0.5	0.6	1.1	G1	V
102923330	13.6	13.0	0.361	0.167	0.364	2.62	4.1	5976	208	4.3	0.5	-0.2	0.4	G3	IV
102923994	14.4	13.9	0.255	0.143	0.895	2.67	-0.5	6306	228	2.2	0.5	-0.3	0.5	A5	V
102924137	14.5	14.0	0.204	0.217	0.769	2.74	2.0	7053	232	3.7	0.4	0.5	0.4	F6	V
102924983	14.3	13.8	0.194	0.266	0.699	2.60	3.1	6056	145	4.3	0.3	0.8	0.5	A0	V
102925376	14.8	14.2	0.349	0.184	0.377	2.63	3.9	6082	390	4.4	0.5	0.1	0.6	F6	V
102925830	13.1	12.9	0.068	0.191	0.873	2.89	2.6	8998	693	4.4	0.2	-0.0	0.3	A0	V
102925852	12.7	12.4	0.061	0.227	1.121	2.75	0.5	7078	86	3.7	0.2	0.3	0.4	A5	V
102926412	14.4	13.9	0.089	0.233	0.998	2.91	2.3	8734	150	4.2	0.0	0.0	0.0	F4	V
102927490	12.6	12.2	0.104	0.287	1.043	2.79	0.9	7385	70	3.7	0.2	1.0	0.4	A0	IV
102927705	14.4	13.9	0.240	0.234	0.526	2.70	3.3	6832	213	4.4	0.3	0.9	0.4	F8	IV
102928173	15.2	14.5	0.268	0.135	0.632	2.66	1.8	6376	405	3.4	0.6	-0.4	0.4	F8	IV
102929286	15.9	15.2	0.371	0.171	0.382	2.61	3.9	5881	785	4.1	1.1	-0.3	0.8	G7	III
102929503	13.3	12.9	0.132	0.150	1.164	2.89	-1.2	8431	517	2.7	0.2	-0.3	0.3	A5	V
102930504	15.1	14.5	0.273	0.197	0.613	2.68	2.1	6547	379	3.7	0.5	0.5	0.6	A5	IV

Table A.1. continued.

ColD	Bmag [mag]	Vmag [mag]	(b - y)0	m ₀	c ₀	H β	M _v [mag]	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	Sptype	Class
102931075	14.8	14.2	0.116	0.227	1.046	2.81	0.5	7582	326	3.4	0.3	0.3	0.4	F9	V
102931201	14.2	13.7	0.299	0.151	0.441	2.65	3.4	6413	203	4.3	0.2	-0.2	0.7	G2	IV
102931357	13.2	12.7	0.337	0.183	0.445	2.63	3.3	6122	153	4.0	0.4	0.1	1.1	F6	IV
102931930	15.3	14.7	0.259	0.132	0.512	2.67	3.0	6584	424	4.2	0.5	-0.5	0.6	G2	V
102932182	12.9	12.4	0.305	0.161	0.438	2.65	3.5	6394	78	4.3	0.2	-0.1	1.1	A5	V
102933855	13.9	13.3	0.081	0.123	1.160	2.88	-0.3	9132	817	3.3	0.2	-0.7	0.4	G1	IV
102933957	14.4	13.7	0.358	0.199	0.420	2.62	3.6	6012	299	4.1	0.3	0.2	0.5	G4	V
102934041	13.6	13.2	0.066	0.177	1.151	2.80	0.1	7492	118	3.5	0.2	-0.1	0.4	A0	V
102935003	15.8	15.2	0.168	0.113	0.911	2.76	0.9	7145	602	3.4	0.7	-0.6	0.5	G1	V
102935603	15.1	14.4	0.399	0.201	0.405	2.60	3.6	5741	373	3.8	0.8	0.0	0.5	A5	V
102936028	12.9	12.5	0.198	0.217	0.780	2.68	1.9	6493	107	3.7	0.3	0.4	0.4	A5	V
102936622	14.2	13.7	0.258	0.202	0.572	2.65	2.7	6298	212	4.0	0.3	0.6	0.6	A5	V
102936944	13.8	13.4	0.248	0.202	0.651	2.69	2.1	6693	144	3.7	0.3	0.5	0.5	A0	V
102937268	14.2	13.7	0.155	0.265	0.888	2.74	1.7	7045	175	3.8	0.2	0.8	0.3	F4	V
102939043	14.5	14.0	0.105	0.249	0.893	2.89	2.4	8472	547	4.2	0.2	0.6	0.3	A5	V
102939194	15.0	14.5	0.295	0.152	0.657	2.65	1.5	6180	427	3.0	0.7	-0.2	1.3	F8	IV
102939392	12.9	12.3	0.200	0.232	0.854	2.76	1.2	7166	68	3.4	0.2	0.6	0.4	A5	V
102939530	14.3	13.9	0.095	0.217	1.033	2.75	0.9	7075	197	3.6	0.2	0.2	0.3	A0	V
102940234	13.9	13.3	0.175	0.207	0.849	2.69	1.5	6532	165	3.6	0.2	0.3	0.6	A0	V
102940935	13.5	13.2	-0.005	0.235	0.944	2.82	-2.4	7703	134	2.5	0.5	0.0	0.0	A5	V
102941566	15.3	14.6	0.172	0.244	0.987	2.76	0.2	7131	425	3.1	0.5	0.7	0.5	A5	IV
102942436	15.8	15.1	0.303	0.155	0.446	2.65	3.4	6377	510	4.3	0.7	-0.2	2.3	G2	V
102943073	13.5	12.9	0.287	0.222	0.466	2.66	3.4	6413	135	4.4	0.3	0.9	0.9	F8	IV
102943151	15.8	15.1	0.320	0.103	0.427	2.61	3.5	6072	534	3.8	0.9	-0.9	0.5	F8	IV
102943830	15.1	14.6	0.175	0.279	0.822	2.79	2.2	7436	346	3.9	0.3	0.9	0.4	A5	V
102945050	13.8	13.4	0.182	0.246	0.743	2.75	2.8	7179	144	4.1	0.3	0.6	0.5	A0	V
102945448	12.7	12.4	0.217	0.239	0.759	2.70	1.9	6735	81	3.7	0.2	0.7	0.4	A5	V
102946199	13.9	13.4	0.194	0.208	0.791	2.72	1.8	6866	164	3.7	0.2	0.3	0.3	A5	V
102947424	13.0	12.5	0.288	0.199	0.556	2.61	2.5	5902	2749	3.9	0.4	0.5	0.6	A0	IV
102947449	12.9	12.5	0.105	0.216	1.096	2.92	0.1	8870	3012	3.3	0.2	0.2	0.5	A5	V

Table A.1. continued.

CoID	Bmag [mag]	Vmag [mag]	(b - y)0	m0	c0	H β	M _v [mag]	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	SPrtype	Class
102948111	14.1	13.5	0.309	0.195	0.498	2.68	2.9	6651	187	4.0	0.3	0.4	0.6	F5	IV
102948186	13.6	13.0	0.257	0.178	0.503	2.69	3.3	6761	133	4.4	0.2	0.2	1.0	A7	V
102948602	14.6	14.0	0.297	0.151	0.580	2.65	2.2	6239	314	3.4	0.5	-0.2	0.6	F8	IV
102948973	13.9	13.4	0.079	0.188	0.954	2.86	1.9	8083	196	4.0	0.2	-0.0	0.4	A0	V
102949050	14.8	14.2	0.235	0.182	0.517	2.71	3.6	6910	298	4.5	0.3	0.2	0.9	A5	V
102950169	13.5	13.2	0.101	0.141	1.016	2.83	0.9	7744	117	3.6	0.2	-0.5	0.4	A5	V
102950509	15.4	14.5	0.426	0.247	0.377	2.61	4.4	5639	920	4.1	0.9	0.2	0.9	G8	V
102950986	15.6	15.0	0.303	0.081	0.540	2.61	2.5	6089	554	3.1	1.1	-1.4	0.7	A5	IV
102951005	12.7	12.3	0.225	0.237	0.661	2.66	2.2	6298	81	3.8	0.3	0.9	0.2	A7	V
102951048	15.1	14.7	0.105	0.125	0.861	2.84	2.5	7902	364	4.2	0.3	-0.6	0.4	A0	V
102951338	14.0	13.3	0.242	0.118	0.553	2.68	2.7	6627	195	4.0	0.3	-0.8	1.1	A5	V
102952256	12.4	12.2	0.007	0.292	0.867	2.83	-1.0	7778	67	3.3	0.2	0.1	0.1	A0	V
102953294	13.1	12.4	-0.039	0.339	0.333	2.62	-0.8	5836	226	4.5	0.1	0.0	0.0	A5	V
102954255	14.6	14.2	0.090	0.168	0.887	2.85	2.5	8045	334	4.2	0.2	-0.2	0.7	A0	V
102954988	12.9	12.6	0.038	0.199	1.056	2.87	1.7	8249	156	4.1	0.0	0.0	0.0	A0	V
102955089	15.5	14.9	0.200	0.194	0.694	2.75	2.7	7152	445	4.1	0.5	0.2	0.5	G0	V
102955104	13.5	13.1	0.110	0.234	0.937	2.88	1.7	8340	181	3.9	0.2	0.4	0.6	A0	V
102955422	14.4	13.7	0.300	0.166	0.497	2.67	3.0	6513	210	4.0	0.3	0.0	1.1	F6	V
102955584	14.2	13.7	0.218	0.220	0.708	2.73	2.4	7009	191	3.9	0.3	0.5	0.9	A0	V
102956146	13.6	13.1	0.221	0.190	0.796	2.69	1.0	6569	144	3.3	0.3	0.3	0.7	F6	V
102956197	13.1	12.6	0.234	0.197	0.538	2.68	3.4	6612	108	4.4	0.2	0.4	0.7	F5	V
102957511	14.1	13.6	0.290	0.199	0.449	2.64	3.5	6169	262	4.5	0.3	0.5	0.7	A5	V
102957850	14.4	13.8	0.273	0.138	0.501	2.65	3.0	6276	266	4.1	0.3	-0.4	0.6	F6	V
102958007	15.5	14.9	0.184	0.161	0.754	2.83	2.3	7808	454	3.9	0.2	-0.1	0.4	A0	IV
102959167	14.1	13.4	0.303	0.171	0.494	2.67	3.0	6537	169	4.0	0.3	0.1	0.5	A5	V
102960155	12.9	12.4	0.219	0.250	0.708	2.80	1.7	7642	77	3.6	0.3	1.0	0.6	A5	V
102960336	14.1	13.6	0.150	0.147	0.862	2.74	1.8	7030	175	3.8	0.3	-0.3	0.3	A5	V
102960817	14.8	14.3	0.143	0.224	0.866	2.80	2.0	7533	270	3.9	0.3	0.3	0.6	A5	V
102961204	15.5	14.9	0.170	0.125	0.929	2.75	0.7	7095	457	3.2	0.5	-0.5	0.4	F8	IV
102961805	14.3	13.7	0.221	0.230	0.783	2.70	1.0	6697	197	3.3	0.3	0.8	0.4	F8	IV

Table A.1. continued.

ColD	Bmag [mag]	Vmag [mag]	(b - y)0	m ₀	c ₀	H β	M _v [mag]	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	Sptype	Class
102964858	14.8	14.3	0.151	0.205	0.735	2.80	3.2	7598	254	4.3	0.3	0.1	0.4	A5	IV
102965982	15.9	15.2	0.286	0.145	0.428	2.66	3.6	6508	580	4.5	0.6	-0.3	1.1	F8	IV
102966272	14.2	13.5	-0.044	0.324	0.312	2.61	-0.9	5850	217	4.5	0.1	0.0	0.0	F8	IV
102967567	13.0	12.4	0.288	0.185	0.545	2.67	2.6	6519	87	3.9	0.3	0.3	1.1	F8	IV
102967627	14.1	13.4	0.235	0.175	0.726	2.68	1.5	6511	175	3.4	0.3	0.2	0.5	A5	V
102968100	13.5	12.9	0.295	0.209	0.514	2.65	2.9	6324	115	4.1	0.3	0.7	1.5	A5	IV
102968255	15.1	13.9	0.195	0.238	1.023	2.67	-0.7	6327	318	2.6	0.3	0.8	0.3	F0	II
102968526	13.1	12.8	0.144	0.287	1.050	2.89	2.6	8513	150	4.0	0.0	0.0	0.0	A0	V
102969674	15.2	14.6	0.083	0.243	0.863	2.91	2.9	8663	150	4.5	0.0	0.0	0.0	A5	V
102971745	14.6	14.0	0.246	0.189	0.859	2.69	0.1	6523	271	2.7	0.5	0.3	0.6	A0	V
102972076	14.7	14.1	0.225	0.192	0.561	2.72	3.4	6948	272	4.3	0.4	0.4	0.5	A5	V
102972352	15.7	15.0	0.222	0.155	0.902	2.70	-0.1	6618	696	2.7	0.9	-0.1	-	A5	IV
102972706	14.7	14.1	0.086	0.193	1.065	2.84	0.7	7851	346	3.6	0.3	0.0	0.4	A5	IV
102973367	14.0	13.4	0.241	0.152	0.621	2.75	2.3	7222	182	3.8	0.2	-0.2	0.5	A5	IV
102973761	12.2	12.1	-0.027	0.121	0.668	2.76	-0.6	7252	66	3.6	0.2	-0.1	0.0	A5	IV
102974309	15.8	15.2	0.362	0.161	0.360	2.61	4.1	5936	822	4.3	0.9	-0.3	0.7	A0	V
102975191	13.8	13.3	0.196	0.194	0.689	2.69	2.9	6658	181	4.1	0.2	0.2	0.3	F5	V
102977896	13.1	12.9	0.147	0.297	1.077	2.76	2.4	7134	88	3.9	0.0	0.0	0.0	A0	V
102983355	14.4	14.0	0.176	0.189	0.742	2.73	2.6	6992	215	4.0	0.2	0.1	0.3	A5	IV
102983577	13.3	12.8	0.115	0.271	0.577	2.75	2.0	7248	98	4.4	0.2	0.3	0.3	A0	V
102985597	15.4	15.0	0.227	0.160	1.009	2.69	-1.2	6526	530	2.2	0.9	-0.0	-	A0	V
102990364	13.7	13.3	0.128	0.300	0.761	2.74	3.2	7042	126	4.5	0.2	1.0	0.3	A5	IV

Appendix B

Catalog of stars with AAO spectroscopy

Table B.1. Catalog of all fundamental parameters of stars derived from AAO spectroscopy from IRa1, L Ra1 and L Ra2: Corot Identification (CoID), B magnitude, V magnitude, S/N , effective temperature, surface gravity, metallicity, radial velocity, and CaK and Gband temperature.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	T_{eff} [K]	ΔT_{eff} [K]	$\log g$ [dex]	$\Delta \log g$ [dex]	M/H [dex]	$\Delta M/H$ [dex]	$v \sin i$ [km/s]	v_r [km/s]	$T_{\text{eff CaK}}$ [K]	$T_{\text{eff Gband}}$ [K]
102724044	15.7	14.9	37	6171	274	4.034	0.796	-0.074	0.099	1	-83.0	5327	5788
102731324	16.1	15.2	41	6171	310	3.925	0.661	0.489	0.103	171	0.0	6640	5794
102732137	15.7	15.0	47	10239	4027	3.306	1.075	0.759	0.168	1	-166.0	6906	7775
102732394	15.7	15.0	55	6896	294	4.096	0.759	0.287	0.075	81	-83.0	6646	7207
102733914	16.2	15.3	43	7527	3658	3.383	1.087	0.951	0.333	1	0.0	6800	5789
102736678	15.8	15.0	59	6848	259	4.096	0.763	-0.235	0.127	1	0.0	6556	6725
102736694	16.6	15.3	39	6038	313	3.753	0.699	0.281	0.103	71	-83.0	5208	5658
102738602	15.3	14.5	51	6354	315	3.953	0.712	0.472	0.092	141	-83.0	6566	5722
102739861	16.0	15.3	41	6405	100	4.435	0.193	0.027	0.121	1	-83.0	6639	6122
102742355	15.9	15.1	53	6265	288	3.847	0.780	0.162	0.113	1	-83.0	6626	5744
102744887	15.8	15.1	50	6259	316	4.147	0.669	0.186	0.119	69	-83.0	6588	5793
102745719	16.1	15.4	43	6519	303	4.064	0.758	0.297	0.085	151	0.0	6705	5785
102745896	15.6	14.4	36	13805	4271	3.350	1.100	0.292	0.547	1	-830.1	6875	6490
102747607	15.7	14.8	47	6321	293	3.782	0.894	0.093	0.097	1	-83.0	6719	5764
102748346	16.0	15.1	37	5605	254	3.972	0.550	0.293	0.139	11	-83.0	6598	5250
102750008	16.2	15.5	43	6858	319	4.199	0.664	0.552	0.131	1	-83.0	6774	6875
102750765	16.1	15.2	42	6260	286	3.947	0.706	0.280	0.091	121	-83.0	6607	5719
102751225	15.8	15.1	44	6688	247	3.628	0.776	0.093	0.102	1	-83.0	5259	6860
102751808	15.1	14.1	87	9380	409	3.332	0.335	0.472	0.107	1	-83.0	7562	9690
102756180	15.7	14.8	36	6041	290	4.096	0.614	0.280	0.096	91	-83.0	6576	5649
102757891	16.2	15.4	52	6445	311	3.945	0.719	0.290	0.100	121	-83.0	6626	6115
102757937	15.7	15.0	44	6130	287	3.966	0.734	0.116	0.097	1	-83.0	6614	5760
102758108	15.8	15.0	34	5762	98	4.431	0.165	-0.028	0.105	1	0.0	6647	5375
102758296	15.9	15.0	42	6836	282	4.040	0.762	0.197	0.136	1	-83.0	6830	7412
102758435	15.8	15.1	48	6190	309	3.984	0.679	0.456	0.085	191	-83.0	6610	5749
102758861	14.2	13.5	70	6515	250	3.704	0.881	-0.201	0.101	1	0.0	6619	7778

Table B.1. continued.

CoID	$Bmag$ [mag]	$Vmag$ [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102760530	15.4	14.7	43	5677	272	3.992	0.741	-0.198	0.089	1	0.0	6643	5730
102761274	16.2	15.5	43	6488	100	4.298	0.223	0.021	0.098	1	-83.0	5269	6279
102761278	16.3	15.2	31	5945	324	3.694	0.657	0.296	0.140	1	-83.0	6683	5250
102762786	15.7	14.9	44	6798	304	3.875	0.756	0.452	0.091	1	-83.0	6613	7478
102765275	16.5	15.6	35	6354	289	4.150	0.575	0.359	0.110	41	-83.0	6589	5715
102765765	16.2	15.4	42	6233	302	4.034	0.708	0.211	0.085	93	0.0	6633	5758
102766299	16.2	15.4	42	7128	298	3.996	0.745	0.361	0.097	121	-83.0	5362	7151
102766921	16.0	15.1	45	7479	3449	3.387	1.069	0.930	0.282	81	-83.0	6824	5677
102769424	16.5	15.5	30	8379	4406	3.351	1.087	0.988	0.336	1	83.0	5242	6109
102770529	15.9	15.1	43	6242	315	3.902	0.677	0.438	0.076	131	-83.0	5282	5760
102770717	15.9	15.0	47	6045	298	3.782	0.661	0.370	0.094	173	-83.0	6601	5673
102770886	15.6	15.0	57	6087	257	3.869	0.916	-0.357	0.105	91	0.0	6577	5792
102771557	16.2	15.4	44	13237	4129	3.495	0.758	0.512	0.125	1	-166.0	6795	5781
102776239	16.0	15.2	43	6229	100	4.419	0.208	-0.056	0.095	1	-83.0	6621	5796
102778759	16.4	15.0	36	6107	313	3.704	0.705	0.472	0.097	111	-166.0	5322	5632
102778838	15.9	15.1	47	6070	263	3.818	0.902	-0.289	0.082	1	-83.0	6613	5752
102780627	16.2	15.4	37	6449	295	3.922	0.671	0.378	0.093	49	-83.0	6648	6064
102783232	15.6	14.7	53	6189	281	3.771	0.828	-0.097	0.089	1	-83.0	6619	5777
102784116	15.6	14.2	31	5355	221	3.257	0.626	0.129	0.112	1	-83.0	6717	6015
102784124	16.2	15.5	53	6271	249	3.716	0.984	-0.492	0.218	1	-83.0	6602	6200
102785829	16.0	15.2	35	6184	294	4.183	0.671	0.053	0.099	41	0.0	6638	5699
102786028	16.0	15.3	56	6761	300	4.137	0.725	0.306	0.064	131	-83.0	6615	6761
102786376	16.4	15.5	34	5812	258	4.228	0.565	0.207	0.138	1	-83.0	5371	5260
102788905	15.9	15.1	45	6716	101	4.277	0.276	0.072	0.095	53	-83.0	6641	7588
102789503	16.2	15.4	45	6530	99	4.271	0.249	0.016	0.095	1	-83.0	6637	6396
102793889	16.1	15.1	36	6113	280	4.263	0.656	0.454	0.089	77	-83.0	6691	5662
102794726	16.2	15.4	38	5227	152	4.524	0.277	-0.422	0.194	1	0.0	6625	5620
102795475	15.4	14.1	27	5229	125	3.512	0.525	0.438	0.081	1	-83.0	6668	6162
102796843	16.1	15.3	40	6326	283	4.087	0.761	0.120	0.107	1	-83.0	6680	5742
102797705	15.9	15.0	35	6140	233	4.380	0.435	0.334	0.095	1	-83.0	6604	5310

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log g [dex]	Δ log g [dex]	M/H [dex]	Δ M/H [dex]	$v \sin i$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102799190	16.0	15.1	41	6218	279	4.384	0.592	0.495	0.105	81	-83.0	6852	5293
102799234	15.8	15.0	43	6270	335	3.724	0.765	0.493	0.106	121	-83.0	6574	6475
102800095	15.4	14.5	32	5354	100	4.554	0.143	-0.004	0.119	1	0.0	6631	8305
102800433	15.8	14.9	38	5941	100	4.507	0.186	0.032	0.104	1	-83.0	6659	5628
102801538	15.8	15.0	48	6646	341	3.990	0.742	0.490	0.098	131	0.0	6659	6849
102801571	15.9	15.1	41	6158	306	3.950	0.681	0.547	0.123	141	-83.0	6558	5780
102802470	16.5	15.4	34	6403	322	3.958	0.670	0.434	0.075	41	-83.0	6579	5702
102802811	15.6	14.8	37	5844	244	4.438	0.516	-0.181	0.105	1	0.0	6650	5542
102803085	15.5	14.7	35	5699	229	4.465	0.495	-0.558	0.313	11	-83.0	6696	5321
102805714	15.7	14.9	41	6009	270	4.228	0.664	-0.108	0.103	1	-83.0	6633	5648
102806106	16.1	15.3	35	5742	252	4.322	0.640	-0.321	0.098	1	0.0	6590	5610
102806506	16.3	15.4	46	6406	260	3.630	0.893	-0.363	0.144	13	-83.0	6682	6725
102807773	14.3	13.2	40	5313	252	3.766	0.705	-0.263	0.113	1	-83.0	6581	6260
102808953	15.6	14.6	46	5616	284	3.580	0.737	-0.201	0.121	1	0.0	6679	5283
102809409	16.3	15.4	30	5992	300	4.148	0.591	0.369	0.096	91	-83.0	6588	5373
102811401	14.7	14.0	74	6664	254	3.748	0.942	-0.376	0.144	1	-83.0	6611	7164
102811574	15.6	14.8	45	5935	272	3.970	0.806	-0.189	0.086	1	0.0	6626	5682
102813484	16.3	15.4	28	5693	200	4.346	0.366	0.123	0.135	1	0.0	6695	5684
102820460	16.1	15.2	40	5463	297	3.078	0.586	-0.343	0.140	1	-83.0	6633	5763
102821606	16.0	15.2	39	5912	99	4.439	0.195	0.000	0.096	1	-83.0	5359	5699
102821651	16.2	15.3	40	6516	336	3.937	0.726	0.453	0.084	41	-83.0	6702	6225
102821859	16.4	15.5	31	5876	277	4.125	0.613	0.194	0.127	1	-83.0	6572	5377
102822534	16.1	15.3	49	10228	4469	3.493	1.060	0.967	0.089	1	0.0	7534	10135
102822789	16.7	15.4	24	8651	4777	3.304	1.094	0.632	0.219	1	-83.0	6636	5309
102825251	16.2	15.1	39	6712	255	3.950	0.800	0.280	0.115	1	-83.0	6641	6435
102825399	14.0	13.4	54	7171	287	4.365	0.550	0.199	0.100	5	-83.0	6862	7986
102825434	16.0	15.3	45	6291	314	3.953	0.747	0.298	0.139	1	0.0	5365	6127
102828086	13.8	13.2	57	6024	255	3.936	0.939	-0.467	0.212	171	0.0	5355	5710
102828857	16.1	15.3	33	5997	281	4.025	0.630	0.450	0.090	151	83.0	6656	5687
102829401	16.1	15.3	32	6468	290	3.996	0.700	0.422	0.076	1	-83.0	5303	6143

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102829928	16.2	15.3	52	6651	265	3.906	0.785	-0.152	0.090	1	-83.0	5350	6558
102830586	15.9	14.9	25	5731	271	4.140	0.544	0.473	0.097	3	0.0	6626	5247
102830868	15.4	14.5	46	5968	271	4.505	0.466	-0.195	0.118	1	-83.0	6825	5272
102830951	15.2	14.4	33	5744	178	3.873	0.617	0.252	0.110	1	0.0	6642	5686
102831253	15.6	14.8	37	6405	298	4.425	0.520	0.212	0.092	31	-83.0	6839	5322
102833782	15.7	14.8	36	5616	244	4.424	0.526	-0.291	0.098	1	0.0	5325	5491
102833786	16.3	15.5	38	5422	198	4.361	0.499	-0.374	0.172	1	0.0	6771	5253
102834013	13.8	12.6	37	5692	242	3.421	0.686	0.092	0.106	1	-83.0	5336	5221
102834984	16.0	15.2	38	5980	296	4.184	0.610	0.287	0.130	191	-83.0	6567	5605
102835139	16.1	15.2	35	5500	240	4.275	0.505	-0.233	0.108	11	-166.0	6583	5856
102835656	15.3	14.6	43	6032	288	3.804	0.818	-0.088	0.092	1	0.0	6604	5718
102836673	15.5	14.7	39	5986	262	3.997	0.779	-0.091	0.096	1	-166.0	6657	5670
102838850	16.1	15.4	39	5993	289	4.018	0.658	0.194	0.107	1	-83.0	5299	5621
102839312	16.0	15.1	32	5705	100	4.685	0.150	0.016	0.121	1	0.0	6612	6671
102840367	16.2	15.4	34	5854	258	3.927	0.680	0.202	0.114	1	-166.0	6690	5719
102842017	16.3	15.0	23	5366	201	4.034	0.463	0.407	0.078	1	-83.0	6721	10158
102842043	15.3	14.6	54	7073	278	3.903	0.868	0.207	0.098	1	-83.0	6699	8207
102842459	15.9	15.1	34	5511	249	4.015	0.565	0.121	0.112	7	-166.0	5283	5411
102843757	14.7	13.4	27	5431	166	3.568	0.586	0.436	0.076	1	0.0	6586	5374
102844478	12.9	12.4	60	6644	262	3.767	0.934	-0.230	0.117	1	0.0	6596	7391
102844674	16.0	15.2	44	6179	100	4.526	0.191	0.016	0.087	1	-83.0	6639	5752
102846046	16.3	15.3	30	8316	4405	3.388	1.091	0.713	0.180	77	0.0	6675	5741
102846609	16.1	15.4	51	8504	455	4.266	0.591	0.117	0.174	1	0.0	7502	9495
102848598	15.7	14.9	32	6245	301	4.033	0.656	0.387	0.072	31	-83.0	6679	5724
102849476	16.4	15.5	44	6851	298	3.971	0.735	0.388	0.082	1	0.0	5238	6878
102850741	15.5	14.7	42	5834	246	4.107	0.672	-0.096	0.132	11	0.0	5300	5611
102850820	14.7	13.4	35	5703	164	3.419	0.613	0.371	0.110	5	-83.0	5272	5986
102851093	15.4	14.5	37	5493	230	4.341	0.469	-0.094	0.155	11	-83.0	6589	6576
102851583	15.9	15.0	45	6166	273	3.959	0.803	-0.117	0.103	1	0.0	6621	5735
102853218	14.1	13.6	69	7328	296	4.169	0.758	0.187	0.099	101	-83.0	6849	9344

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log g [dex]	Δ log g [dex]	M/H [dex]	Δ M/H [dex]	$vsini$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102853480	15.7	14.9	49	6708	295	3.954	0.792	0.275	0.091	51	83.0	6596	7732
102853632	16.2	15.4	35	5992	256	3.820	0.684	0.365	0.113	131	0.0	5217	5647
102854313	14.3	13.5	47	6087	289	3.700	0.803	0.133	0.083	111	-83.0	5350	5754
102855472	15.1	14.2	45	8354	440	4.223	0.593	-0.384	0.238	11	0.0	7453	9726
102858533	14.2	13.5	46	8881	378	3.998	0.347	0.895	0.136	1	0.0	7464	8765
102859192	16.3	15.5	29	6200	311	3.791	0.692	0.491	0.107	1	0.0	5369	5721
102860883	14.3	13.2	30	5484	214	3.134	0.633	0.124	0.101	3	-83.0	6649	5283
102863718	15.3	14.6	40	6196	276	3.941	0.808	-0.099	0.110	1	-83.0	5316	5759
102864038	16.2	15.4	40	5832	215	4.112	0.619	0.406	0.087	9	-83.0	5287	5254
102865502	16.0	15.2	40	5934	295	4.061	0.663	0.019	0.100	81	0.0	6564	5694
102865897	15.0	14.3	58	6096	249	3.913	0.931	-0.462	0.197	1	0.0	6646	5772
102871643	16.2	15.3	33	5995	296	3.956	0.678	0.267	0.105	33	-83.0	6620	5200
102872072	16.3	15.4	25	5458	235	4.597	0.334	-0.059	0.130	1	-83.0	5244	6371
102872496	15.8	15.0	29	5634	98	4.755	0.143	0.008	0.116	1	-83.0	6655	7158
102873503	15.8	14.9	36	5817	98	4.705	0.134	-0.055	0.127	3	-83.0	6706	5303
102878073	14.8	14.0	46	6017	249	4.244	0.782	-0.368	0.153	1	0.0	6583	5714
102878806	15.9	15.1	37	6030	295	3.744	0.792	-0.105	0.133	1	-83.0	5295	5775
102880008	15.8	14.9	32	5628	260	4.076	0.537	0.250	0.110	11	0.0	5337	5332
102881424	16.2	15.3	46	6943	290	4.013	0.788	0.215	0.120	21	-83.0	6770	7712
102881662	15.8	15.1	41	6159	302	4.032	0.662	0.187	0.102	69	-83.0	5303	5718
102883218	15.7	15.0	43	5996	286	3.945	0.765	-0.083	0.093	121	-83.0	6585	5727
102885656	15.7	14.6	28	5712	265	3.997	0.518	0.409	0.087	1	0.0	6701	6634
102888146	14.6	14.0	59	6786	279	3.954	0.806	0.104	0.067	131	0.0	6679	7457
102892587	15.6	14.9	47	6559	99	4.057	0.296	-0.000	0.085	1	0.0	6583	7244
102896680	16.6	15.3	26	5795	232	3.986	0.551	0.351	0.126	1	-83.0	6898	6014
102897400	13.5	12.8	32	6588	302	3.892	0.749	0.371	0.110	1	-83.0	5321	6909
102898005	16.4	15.3	35	5872	279	3.958	0.610	-0.032	0.124	81	-83.0	6660	5600
102900263	15.6	14.9	44	5584	224	4.296	0.641	-0.507	0.227	11	0.0	5354	5394
102900611	15.2	14.5	48	5868	255	4.063	0.814	-0.391	0.178	11	-83.0	5318	5624
102900761	16.3	15.5	48	8082	143	4.644	0.282	0.003	0.163	1	0.0	7467	9554

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102901452	15.9	15.1	34	6027	128	3.738	0.374	0.572	0.155	1	0.0	6596	5212
102901628	16.3	15.5	33	5548	238	4.355	0.540	-0.323	0.244	1	-83.0	6769	5365
102902215	16.4	15.5	39	6740	300	4.003	0.758	0.393	0.079	11	-83.0	6860	7233
102904558	15.9	15.2	22	9536	4792	3.479	1.021	0.715	0.259	1	-83.0	5264	7679
102953636	14.9	13.6	32	5691	182	3.045	0.431	0.454	0.089	1	0.0	6628	6687
102971937	16.7	16.0	42	6446	321	4.012	0.622	0.302	0.088	137	0.0	5321	6481
102696575	15.2	14.0	40	5552	195	3.680	0.513	0.086	0.101	1	-83.0	6684	5336
102716113	15.7	14.4	32	5823	301	3.544	0.763	-0.053	0.147	1	-83.0	6623	5334
102726103	15.3	14.5	49	6387	300	4.131	0.707	0.303	0.082	161	0.0	5256	6027
102727798	15.8	15.0	34	5535	235	4.231	0.598	-0.238	0.122	1	0.0	6688	5336
102731845	15.4	14.1	33	5121	100	2.189	0.260	0.289	0.119	1	-83.0	5231	6944
102732855	14.3	13.7	51	6757	264	3.844	0.920	-0.135	0.112	21	0.0	6571	8164
102738820	15.1	13.9	31	5442	201	3.822	0.529	0.272	0.142	1	-83.0	6567	6894
102739246	15.2	14.6	79	7156	101	4.521	0.292	-0.008	0.112	61	-83.0	6774	7876
102739297	14.5	14.0	47	8647	455	4.341	0.526	0.208	0.142	1	0.0	7450	9514
102742764	14.9	14.3	75	7683	320	4.462	0.514	-0.137	0.104	31	-83.0	6976	8506
102744320	14.1	13.4	51	6685	301	4.091	0.728	0.279	0.103	131	-83.0	6739	6337
102745049	15.6	14.0	29	12974	4610	3.163	1.084	0.198	0.429	1	-83.0	6772	6603
102745520	14.0	13.4	61	6696	262	3.734	0.950	-0.466	0.217	1	0.0	6709	7576
102745988	15.3	14.5	51	6384	100	4.254	0.230	-0.031	0.088	41	-83.0	6578	6293
102746763	15.0	14.1	32	5987	274	3.885	0.810	0.126	0.120	1	0.0	6720	5703
102747143	16.0	15.1	39	5985	302	3.888	0.649	0.379	0.095	131	-83.0	5242	5469
102747231	14.4	13.7	64	9860	3666	3.424	1.010	0.759	0.168	1	-83.0	7066	7628
102748150	14.8	14.2	48	7000	101	4.579	0.227	0.036	0.116	1	-83.0	6672	7091
102748741	16.1	15.3	41	6268	100	4.462	0.199	0.038	0.083	71	0.0	6552	6128
102750147	14.7	14.0	62	9795	3711	3.392	1.016	0.759	0.168	1	0.0	6956	8819
102751146	14.9	14.2	48	6523	100	4.136	0.243	-0.010	0.102	1	0.0	6691	7012
102751253	15.4	14.5	48	5673	249	4.331	0.539	-0.086	0.122	1	0.0	6581	5246
102751310	12.9	12.3	69	6629	251	3.828	0.955	-0.271	0.104	1	0.0	6670	6782
102751680	14.5	13.8	43	6276	291	3.867	0.732	0.221	0.100	1	-83.0	6677	5756

Table B.1. continued.

ColD	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	$vsini$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102752140	15.6	14.7	30	5636	243	4.342	0.462	0.199	0.118	1	0.0	6704	6480
102752249	14.8	14.0	41	6201	289	3.899	0.704	0.386	0.087	151	-83.0	5277	5725
102753336	15.8	15.1	49	6559	101	4.390	0.228	0.033	0.101	1	-83.0	6600	6263
102754035	15.2	14.5	53	6540	257	3.798	0.954	-0.169	0.097	1	-83.0	5330	6505
102754604	15.0	14.3	53	7179	275	4.168	0.713	0.286	0.103	1	0.0	6632	7976
102754754	14.5	13.3	35	5471	172	3.562	0.602	0.292	0.099	1	0.0	6604	5324
102755117	15.6	14.4	31	5697	104	3.943	0.190	-0.001	0.135	1	-83.0	6633	5621
102756332	14.3	13.7	47	6536	282	3.837	0.865	0.126	0.096	1	0.0	6591	7045
102756516	14.0	13.5	99	8284	383	4.255	0.608	0.391	0.069	141	0.0	6956	8841
102757409	14.7	13.8	34	5194	188	4.643	0.300	-0.496	0.207	11	0.0	6668	7035
102757561	15.5	14.8	57	6972	278	3.962	0.844	0.161	0.091	1	-83.0	6649	7776
102758434	13.9	12.7	38	6061	100	4.052	0.192	0.024	0.090	1	-83.0	6833	5476
102759524	13.8	13.2	64	6667	266	3.684	1.013	-0.357	0.129	1	0.0	6662	8107
102759983	15.2	14.5	56	6360	263	3.769	0.878	-0.185	0.096	1	-83.0	6601	6383
102760917	15.3	14.6	49	6326	272	3.861	0.854	-0.069	0.085	1	-83.0	6612	6509
102761251	15.5	14.6	52	9405	3703	3.195	1.092	0.759	0.168	1	-83.0	6595	6707
102761876	14.5	13.9	53	6131	246	3.844	0.979	-0.375	0.153	1	0.0	5332	6209
102762136	15.2	14.5	49	7011	291	4.130	0.832	0.436	0.072	69	-83.0	6685	6764
102762595	14.3	13.5	44	5595	235	4.169	0.700	-0.455	0.197	1	0.0	6605	5399
102762684	15.8	14.3	52	8208	459	4.337	0.541	0.065	0.195	41	0.0	7483	9010
102762849	13.2	12.6	73	6256	245	3.754	0.961	-0.477	0.205	141	83.0	6583	5769
102762958	14.4	13.7	56	6414	258	3.685	0.908	-0.229	0.095	1	-83.0	6604	6581
102763111	13.8	13.3	50	9491	3681	3.267	1.074	0.759	0.168	1	0.0	6707	8383
102763541	15.3	14.5	33	6207	294	4.012	0.664	0.527	0.120	1	-83.0	6778	5726
102763611	15.2	14.4	46	5838	265	4.269	0.620	-0.075	0.120	1	-166.0	6679	5265
102764066	15.7	14.4	33	5446	106	3.366	0.214	-0.007	0.108	1	-83.0	6803	6614
102764204	14.2	13.4	51	5924	284	3.838	0.762	-0.134	0.110	41	-83.0	6647	5648
102764690	15.2	14.4	52	6788	297	3.967	0.764	0.193	0.093	27	-83.0	6652	6903
102764727	14.8	14.1	45	6642	296	3.869	0.847	0.172	0.101	121	-83.0	6568	6481
102765346	14.1	13.3	44	6098	100	3.861	0.259	0.033	0.138	1	0.0	6650	6165

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102766287	13.7	13.0	56	6252	255	3.769	0.905	-0.266	0.106	1	-166.0	6598	6180
102766547	16.2	15.3	33	5887	281	4.090	0.579	0.459	0.094	1	-83.0	6614	5311
102766598	14.8	14.0	46	6256	105	4.236	0.204	-0.002	0.099	1	-83.0	6603	5761
102767621	15.2	14.5	38	6458	298	3.913	0.714	0.387	0.086	1	0.0	5366	6158
102767665	14.9	14.0	33	5657	98	4.628	0.146	-0.030	0.115	11	0.0	6585	5215
102768124	14.8	14.1	53	6548	303	3.978	0.733	0.558	0.133	111	-83.0	6565	6182
102768368	14.6	14.1	77	8338	344	4.032	0.656	0.460	0.088	41	-83.0	6996	8547
102768489	15.1	14.4	48	6112	271	3.759	0.844	-0.088	0.105	1	0.0	5276	5781
102768786	14.4	13.4	29	5996	265	4.230	0.543	0.316	0.106	1	-83.0	5272	5344
102768908	14.4	13.7	58	6656	100	4.545	0.182	0.019	0.105	1	-83.0	6727	6176
102768920	13.8	12.7	49	8414	1482	4.294	0.488	0.759	0.168	1	-166.0	7503	6345
102769508	15.1	14.4	67	9846	3589	3.013	1.024	0.759	0.168	1	-83.0	6796	8561
102769569	15.6	14.9	42	5705	100	4.334	0.186	-0.119	0.090	13	0.0	6570	5418
102769577	15.1	14.3	42	5769	273	4.041	0.715	-0.109	0.137	1	0.0	6571	5349
102770497	14.4	13.5	48	5584	261	3.672	0.785	-0.404	0.176	11	-83.0	6588	5744
102770820	14.7	13.9	46	6192	301	4.021	0.749	0.109	0.131	41	-83.0	6580	6204
102771367	15.5	14.7	42	6079	99	4.251	0.199	0.025	0.094	1	-166.0	6669	5660
102771572	13.4	12.8	57	6294	268	4.259	0.726	-0.209	0.098	1	0.0	6677	5735
102772180	14.6	13.9	63	6094	256	3.725	0.998	-0.366	0.119	1	0.0	5371	5768
102772243	13.9	13.2	52	6248	247	4.055	0.835	-0.160	0.105	1	0.0	6618	5715
102772684	14.0	13.5	57	6670	103	4.235	0.280	0.028	0.077	1	0.0	6629	6673
102773285	14.9	14.2	42	6329	100	4.113	0.254	0.014	0.111	1	0.0	6678	6210
102773424	15.0	14.3	40	6049	281	4.172	0.653	0.362	0.109	117	-166.0	6760	5285
102773661	14.7	14.1	52	6644	263	3.829	0.814	-0.037	0.096	25	0.0	6619	7002
102773883	14.4	13.9	50	9335	3856	3.325	1.067	0.759	0.168	1	0.0	6780	8475
102774047	15.9	15.1	42	6292	287	3.830	0.742	0.424	0.073	1	0.0	6617	6182
102774295	14.9	14.2	38	6598	306	3.887	0.761	0.450	0.077	141	83.0	6651	6454
102774336	14.5	13.3	34	5554	241	3.162	0.673	0.085	0.105	1	-166.0	6680	6109
102774512	14.5	13.8	71	9654	3391	3.189	1.067	0.759	0.168	91	-83.0	6842	7860
102774566	15.9	15.0	36	6076	272	4.268	0.660	-0.145	0.111	1	0.0	6659	5633

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	$vsini$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102774699	14.5	13.9	55	6648	99	4.001	0.294	-0.050	0.092	1	-83.0	6615	7344
102775279	14.9	14.2	47	6341	307	3.944	0.740	0.373	0.079	163	0.0	6607	6236
102775860	15.1	14.4	35	6120	293	3.800	0.707	0.319	0.121	1	0.0	6678	6263
102775945	14.7	13.6	36	5383	95	3.788	0.190	-0.004	0.093	1	-83.0	6668	6470
102776386	14.2	13.5	47	7626	302	4.102	0.743	0.503	0.111	1	0.0	6814	7444
102776477	14.9	13.7	30	5314	204	3.680	0.558	0.327	0.129	1	0.0	6574	7272
102776618	14.9	14.2	56	6272	246	3.746	0.988	-0.367	0.152	1	-83.0	6649	6458
102776761	14.4	13.7	53	6631	280	3.859	0.857	0.108	0.093	1	0.0	6575	7241
102777240	15.4	14.0	32	5252	153	3.324	0.596	0.360	0.106	1	0.0	6725	8267
102777789	15.1	14.5	92	12440	3291	4.164	0.738	0.759	0.168	191	-83.0	8254	9573
102778196	13.3	12.7	53	9618	4029	3.528	1.026	0.759	0.168	1	-83.0	7000	8639
102778672	15.9	15.1	45	6049	286	3.838	0.833	-0.115	0.100	1	0.0	5333	5756
102779447	15.0	14.3	44	6964	286	3.904	0.820	0.303	0.120	1	0.0	6667	7512
102779963	15.5	14.8	39	6035	282	3.984	0.728	0.028	0.092	81	-83.0	6583	5664
102780079	15.4	14.7	51	6300	100	4.481	0.221	0.029	0.070	91	0.0	6550	6414
102780430	14.9	14.1	69	5205	189	3.662	0.645	-0.544	0.265	11	0.0	5354	12245
102782546	13.8	13.2	44	7061	278	3.821	0.866	0.313	0.108	1	0.0	6648	7438
102783404	13.3	12.6	45	5807	102	4.354	0.174	0.017	0.123	1	0.0	6691	5354
102783610	13.9	12.6	31	5384	215	3.448	0.610	0.219	0.095	1	0.0	5368	6935
102784436	14.2	13.5	40	5972	285	4.050	0.711	0.168	0.145	21	83.0	6625	5660
102785745	15.0	14.5	59	7954	375	4.008	0.703	0.156	0.120	1	-83.0	6939	9078
102785762	14.9	14.3	51	6343	100	4.467	0.210	0.047	0.074	81	-83.0	6607	6150
102786433	15.5	14.7	52	6212	276	3.740	0.896	-0.194	0.105	1	0.0	5311	6147
102786719	14.8	14.3	122	18474	1481	3.886	0.886	0.986	0.412	53	-415.0	8322	10133
102786723	13.2	12.7	54	7837	329	4.351	0.594	0.485	0.100	1	0.0	6821	7807
102786851	13.8	13.2	53	6661	262	3.843	0.801	-0.110	0.099	1	-83.0	6620	7251
102787241	15.0	14.4	47	6773	275	3.866	0.841	0.126	0.094	1	-83.0	5326	7283
102787321	14.7	13.7	35	5646	98	4.302	0.176	-0.005	0.106	1	0.0	6643	5390
102787366	13.1	12.6	63	6647	265	3.909	0.798	-0.085	0.111	1	0.0	6607	7147
102787952	15.6	14.9	45	6047	290	3.928	0.629	0.377	0.098	145	-83.0	6613	5648

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102788152	13.8	12.7	39	6004	260	3.708	0.686	0.329	0.117	1	-83.0	6681	5633
102788509	15.5	14.7	59	6822	290	4.059	0.746	0.113	0.094	131	-83.0	6684	6612
102789159	15.0	14.3	45	6203	269	4.032	0.878	-0.230	0.104	33	0.0	6648	6037
102789305	13.3	12.6	49	6375	287	3.980	0.738	0.172	0.084	71	0.0	6637	5771
102790250	14.0	13.5	58	6355	260	3.918	0.880	-0.238	0.089	41	0.0	5349	5795
102790392	15.6	14.7	46	6576	267	3.987	0.770	-0.068	0.109	1	-83.0	6693	6440
102790572	15.7	14.4	28	5297	306	2.715	0.570	-0.216	0.122	1	0.0	6724	5817
102791190	15.5	14.8	49	6360	100	4.115	0.248	-0.036	0.104	1	-83.0	6583	6471
102791241	15.1	14.4	49	6558	267	3.850	0.817	0.039	0.103	13	0.0	6599	6884
102791456	14.3	13.0	31	5487	238	3.479	0.588	0.286	0.159	11	-83.0	6619	5943
102791993	13.5	12.9	48	6447	100	4.146	0.259	0.012	0.090	1	0.0	6630	6464
102792687	15.2	14.1	33	5696	219	3.756	0.584	0.395	0.080	7	0.0	5362	5354
102792795	14.3	13.6	51	5959	103	4.498	0.153	0.014	0.103	121	-83.0	6684	5285
102793352	14.5	13.8	135	14398	3449	3.221	0.849	0.759	0.168	191	-83.0	8010	11987
102793367	14.1	13.5	62	6313	256	3.691	0.948	-0.304	0.092	1	-83.0	6633	6763
102793446	14.5	13.8	43	5906	100	4.229	0.202	-0.008	0.085	91	0.0	6631	5737
102793471	15.9	14.4	30	5270	154	3.402	0.609	0.278	0.110	1	0.0	6649	6747
102793656	13.6	13.1	54	9014	3279	3.310	1.078	0.759	0.168	1	-83.0	6652	8093
102794380	15.8	14.9	36	6099	271	4.186	0.650	0.122	0.091	71	-83.0	6565	5606
102794740	15.8	15.0	44	6732	286	3.976	0.777	0.343	0.108	1	-83.0	6721	8279
102794834	13.7	12.5	34	5642	243	3.637	0.632	0.366	0.108	1	0.0	6595	5354
102794993	14.2	13.6	58	6355	280	3.938	0.787	0.125	0.089	121	83.0	6641	5774
102795374	15.6	14.4	41	6436	324	3.937	0.697	0.384	0.087	1	0.0	6723	5743
102795632	14.4	13.9	54	8099	364	4.242	0.630	0.495	0.107	1	-83.0	6857	10157
102796605	14.9	14.1	42	6124	281	3.952	0.738	0.103	0.105	1	-83.0	6661	5753
102796774	15.0	14.3	46	6828	281	3.841	0.777	0.284	0.116	1	-83.0	6574	7390
102797207	15.1	14.2	31	5328	165	4.196	0.390	0.166	0.134	11	-83.0	6603	6923
102797287	13.7	13.2	61	6981	281	3.811	0.857	0.266	0.073	1	-83.0	6739	7885
102798201	15.1	14.3	48	7076	295	4.460	0.424	0.481	0.097	87	-83.0	6678	5662
102798231	15.5	14.7	51	6312	270	4.064	0.813	-0.188	0.137	1	-83.0	6665	5769

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	$vsini$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102798314	14.4	13.7	48	6147	259	4.120	0.813	-0.171	0.084	1	-83.0	6598	5657
102798337	15.5	14.3	47	9195	517	4.122	0.520	0.869	0.130	69	0.0	7383	9315
102798389	14.8	13.9	45	6053	286	3.994	0.689	-0.069	0.102	1	0.0	6713	5284
102798663	13.6	12.4	40	5455	217	3.387	0.686	-0.240	0.114	11	-83.0	6666	5900
102798772	16.1	15.2	29	5607	258	4.202	0.534	0.141	0.113	1	-83.0	6651	5249
102798880	15.5	14.7	47	6190	277	4.019	0.814	-0.067	0.109	1	-83.0	6698	5756
102799068	15.7	14.9	47	6364	101	4.195	0.238	0.025	0.086	1	-83.0	6633	5799
102799295	15.0	14.1	35	5621	99	4.655	0.135	-0.032	0.112	1	0.0	6644	6286
102799346	14.2	13.5	91	6371	261	3.775	0.981	-0.430	0.193	121	83.0	6618	6203
102799525	15.4	14.4	112	14407	3863	3.205	0.938	0.757	0.169	121	-83.0	8202	10557
102799556	16.1	15.2	47	6472	280	3.879	0.731	0.375	0.092	181	-166.0	5277	6056
102799637	13.7	13.1	57	6353	259	3.660	0.893	-0.502	0.213	51	0.0	6621	7008
102800127	13.0	12.4	48	5863	224	3.924	0.752	-0.396	0.178	11	0.0	6645	5679
102800252	13.7	13.1	53	6128	275	3.854	0.825	-0.052	0.075	1	0.0	6625	6164
102800304	15.3	14.4	31	5718	251	4.163	0.549	0.126	0.125	1	0.0	5353	5226
102800806	13.9	13.4	90	9382	1763	3.771	0.847	0.759	0.168	131	0.0	6931	8982
102801077	13.7	12.5	35	5366	220	3.216	0.646	0.075	0.129	1	0.0	6583	6369
102801403	13.2	12.6	59	6476	259	3.649	0.941	-0.232	0.115	61	0.0	6551	6862
102801695	15.5	14.1	40	13434	4205	3.230	1.080	0.386	0.447	1	-166.0	6951	5363
102801717	14.6	13.8	47	6239	101	4.444	0.190	-0.043	0.080	1	0.0	6606	5707
102801764	13.5	12.4	38	5556	162	4.319	0.282	-0.072	0.096	1	-83.0	6774	6047
102802114	14.2	13.7	60	9548	3796	3.582	1.007	0.759	0.168	1	-83.0	7369	8931
102802248	14.1	13.5	47	6650	265	3.641	0.901	-0.167	0.124	1	-166.0	6655	7433
102802283	15.4	14.6	41	5803	294	3.939	0.742	-0.090	0.098	11	0.0	6586	5659
102802797	15.5	14.1	36	5623	263	3.541	0.679	0.062	0.093	11	-83.0	5352	5266
102802898	13.7	12.5	43	5555	175	3.533	0.610	-0.177	0.092	1	-83.0	6631	5230
102803243	14.5	13.7	39	6047	284	3.881	0.723	0.178	0.119	1	-83.0	5335	5721
102803720	15.2	14.4	30	5662	242	4.397	0.492	0.233	0.164	3	-83.0	6703	5828
102804008	14.0	13.4	62	6780	276	3.873	0.876	-0.222	0.127	1	0.0	6642	7129
102804148	13.6	13.1	74	6844	271	3.695	0.918	-0.336	0.144	21	0.0	6655	8642

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102804287	14.2	13.4	53	6136	311	3.944	0.651	0.368	0.087	191	-83.0	6661	5707
102804293	12.8	12.2	58	6324	100	4.262	0.216	0.033	0.096	81	0.0	6562	6334
102804330	13.4	12.8	68	9114	2747	3.092	1.074	0.759	0.168	1	0.0	6595	9901
102804403	14.1	13.5	56	6429	266	3.880	0.924	-0.302	0.096	1	0.0	6725	6372
102804582	15.0	14.3	62	6388	258	3.744	0.965	-0.293	0.092	1	-83.0	5335	6574
102804606	13.1	12.5	53	6075	266	4.043	0.844	-0.054	0.100	9	-83.0	6563	5719
102804785	15.1	14.3	51	6838	100	4.197	0.320	-0.037	0.099	1	-83.0	5353	7457
102804879	14.4	13.5	49	5847	274	3.668	0.815	-0.241	0.116	17	0.0	6570	5690
102804906	15.4	14.0	30	5369	139	3.728	0.519	0.278	0.124	11	0.0	6678	7357
102805145	15.8	14.4	48	8337	460	4.076	0.598	-0.076	0.160	1	0.0	7403	9661
102805479	13.0	12.3	54	6078	225	3.903	0.764	-0.354	0.104	29	0.0	6615	5789
102806029	14.6	14.0	58	6491	304	4.042	0.740	0.286	0.129	67	0.0	5324	6050
102806131	16.0	15.1	46	10089	4517	3.483	1.060	0.987	0.078	61	0.0	7322	8838
102806157	13.7	13.1	54	6509	281	3.751	0.865	0.109	0.074	31	-83.0	6602	7076
102806687	15.6	14.9	52	6320	100	4.193	0.290	0.418	0.072	127	-166.0	5348	6243
102807010	14.9	14.1	49	5913	258	3.507	0.918	-0.453	0.196	1	0.0	6662	6029
102807199	15.7	14.8	34	5546	240	4.378	0.455	0.141	0.156	1	-166.0	6572	6128
102807286	13.7	13.2	64	8340	368	4.440	0.467	0.514	0.116	21	0.0	7178	8593
102807464	13.7	13.2	71	6922	278	3.902	0.874	-0.280	0.098	1	-83.0	6738	7908
102807732	14.3	13.6	54	6333	103	4.523	0.225	-0.012	0.103	41	83.0	6711	6163
102808511	14.5	13.4	58	14672	3955	2.937	1.025	0.222	0.480	1	-913.1	6831	12255
102808570	14.7	13.4	28	5225	154	3.467	0.515	0.325	0.129	1	0.0	6654	5907
102808711	15.3	14.0	39	5675	276	3.605	0.715	0.134	0.094	1	-83.0	6662	5507
102809581	14.7	13.7	55	6322	262	3.779	0.946	-0.147	0.109	3	0.0	6603	6988
102809628	15.1	14.3	54	6197	222	3.933	0.689	-0.278	0.097	1	0.0	5374	5769
102809733	14.6	13.8	58	9205	3296	3.298	1.084	0.759	0.168	1	-83.0	6777	8340
102810195	15.4	14.7	41	5910	100	4.774	0.147	0.014	0.130	1	-83.0	6639	5379
102810428	14.7	13.9	32	6079	293	4.182	0.653	0.314	0.111	81	0.0	6678	5687
102812642	15.5	14.4	49	8589	466	4.160	0.546	0.186	0.177	1	0.0	7467	8770
102812709	13.7	12.9	33	5561	237	4.426	0.431	0.230	0.143	1	0.0	5240	6055

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	$vsini$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102812810	14.3	13.6	63	6327	261	3.749	0.960	-0.375	0.155	21	-83.0	6597	6424
102813017	15.8	14.4	44	10069	4548	3.311	1.064	0.978	0.080	1	0.0	7348	8910
102813023	12.7	12.4	93	8074	125	4.292	0.393	0.004	0.093	1	0.0	6928	9550
102813335	14.8	14.2	56	6546	263	3.906	0.786	-0.118	0.089	1	0.0	6645	7150
102813616	13.1	12.4	50	6242	100	4.261	0.211	0.034	0.080	1	0.0	6611	5747
102814109	13.8	13.3	98	8185	124	4.766	0.209	-0.031	0.127	121	0.0	7299	9389
102814185	14.8	13.5	28	5482	191	3.563	0.526	0.493	0.106	1	-83.0	6624	6503
102814603	15.3	14.5	35	6287	274	4.079	0.666	0.292	0.098	81	0.0	5350	5748
102814766	15.2	14.1	33	5323	187	3.776	0.550	-0.273	0.122	3	-166.0	6636	5928
102815148	14.9	14.2	54	6836	100	4.264	0.337	-0.001	0.087	1	0.0	6678	7807
102815203	15.8	15.0	51	6868	285	3.963	0.838	0.126	0.088	1	0.0	6573	6853
102815446	15.0	14.1	44	5719	101	3.886	0.207	0.015	0.121	1	0.0	6621	5241
102815609	15.0	14.3	59	6875	265	3.909	0.830	-0.066	0.108	1	-83.0	6687	6008
102816160	14.8	13.6	35	5629	223	3.323	0.662	0.107	0.147	1	-83.0	6605	6158
102816878	13.7	13.0	53	6405	285	3.854	0.806	0.089	0.136	1	0.0	6619	6192
102817023	14.6	13.4	36	5741	182	3.733	0.395	0.482	0.102	1	0.0	6638	5705
102817025	13.7	13.0	46	5736	268	4.059	0.623	0.208	0.125	1	-83.0	6619	5392
102817430	15.5	14.7	38	5971	300	3.903	0.727	0.167	0.095	141	-83.0	6691	5734
102818253	13.8	13.2	49	6314	303	4.011	0.711	0.295	0.105	151	0.0	6624	5768
102818556	14.9	14.3	68	6661	268	3.607	0.976	-0.385	0.164	1	-83.0	6562	7731
102818586	14.3	13.7	54	6033	258	3.633	0.954	-0.405	0.162	21	0.0	6574	5725
102818629	14.1	12.8	29	5145	123	2.927	0.505	0.299	0.152	1	0.0	6548	6912
102818701	15.6	15.0	51	7014	100	4.363	0.295	0.024	0.107	1	-83.0	6623	8279
102818921	15.9	15.2	58	7100	273	3.827	0.901	-0.089	0.104	1	-83.0	6593	8904
102818927	15.4	14.5	32	5347	226	4.597	0.339	-0.366	0.173	1	-166.0	6590	6368
102820107	16.6	14.2	54	9374	382	3.999	0.371	0.702	0.182	1	0.0	7495	9241
102820332	14.4	13.1	29	5331	162	3.186	0.606	0.413	0.083	1	0.0	6702	6752
102820613	15.1	14.3	43	5774	259	4.309	0.677	-0.443	0.194	1	0.0	6650	5747
102820972	15.6	14.7	38	5758	270	4.016	0.555	0.454	0.086	11	0.0	6638	5582
102820990	13.4	13.0	89	8255	417	4.020	0.637	-0.092	0.091	1	0.0	7209	9751

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102821079	14.5	13.7	59	6672	101	4.093	0.287	0.024	0.083	1	0.0	6605	7133
102821422	14.2	13.4	53	6249	278	4.039	0.820	-0.189	0.103	1	-83.0	6681	5607
102821689	14.0	13.5	106	8138	379	4.233	0.631	-0.193	0.126	91	-83.0	7076	8862
102822124	14.5	13.9	52	6870	100	4.208	0.329	-0.004	0.094	1	0.0	6565	7659
102822128	15.7	14.3	36	5682	198	3.455	0.649	0.110	0.121	5	-83.0	5364	5608
102822241	15.0	14.2	42	5891	283	4.015	0.764	-0.062	0.130	1	0.0	6759	5720
102822300	15.6	14.7	58	6628	283	3.828	0.837	0.183	0.078	113	0.0	6619	6869
102822742	14.9	14.2	38	5990	290	3.877	0.733	0.073	0.106	11	-83.0	6575	5667
102822985	13.4	12.6	34	5669	228	4.321	0.488	0.060	0.117	11	-83.0	6694	5668
102823017	14.6	13.8	50	7755	4903	3.455	1.093	-0.983	0.265	1	-166.0	6701	5997
102823493	14.2	13.1	29	5305	213	3.683	0.571	0.304	0.129	1	0.0	6649	6513
102823810	13.4	12.6	40	6008	293	3.741	0.740	0.100	0.112	1	0.0	5320	5684
102824047	13.6	12.8	36	5905	271	4.036	0.641	0.104	0.114	1	-83.0	6670	5624
102824837	12.7	12.3	87	8245	376	4.522	0.449	0.478	0.100	121	-83.0	6981	8846
102824876	15.1	14.3	54	6575	260	3.868	0.804	-0.098	0.090	1	-83.0	6649	7165
102825164	15.4	14.1	40	5491	218	3.285	0.671	-0.262	0.115	1	-83.0	6634	5677
102825304	15.7	14.9	43	5909	545	3.396	1.092	0.944	0.304	1	0.0	6680	5663
102825481	14.0	13.3	43	6026	99	4.449	0.186	-0.005	0.140	1	-83.0	6701	5689
102825797	14.0	13.2	38	5404	235	4.487	0.418	-0.373	0.121	1	0.0	6820	5683
102827431	15.5	14.7	30	5608	252	4.169	0.510	0.331	0.138	5	0.0	6723	5277
102827878	15.2	14.5	51	5978	250	3.956	0.938	-0.389	0.175	1	-83.0	6658	5784
102828089	13.8	13.2	57	6417	264	3.792	0.950	-0.206	0.116	1	0.0	6620	6239
102828903	14.9	14.2	39	6233	284	3.935	0.784	0.113	0.104	1	-83.0	6575	5773
102829023	13.4	12.7	83	6735	270	3.742	0.978	-0.409	0.198	61	0.0	6682	8201
102829039	14.4	13.6	44	6313	98	4.358	0.214	-0.011	0.091	1	-166.0	6751	5699
102829278	14.2	13.3	30	5444	207	4.432	0.382	0.274	0.150	3	0.0	6693	7323
102829568	13.5	12.8	49	5946	280	3.999	0.761	-0.133	0.125	1	-83.0	6664	5720
102829955	13.3	12.6	45	5564	242	3.861	0.847	-0.489	0.210	11	0.0	6584	5679
102830084	15.3	14.4	48	5392	146	4.173	0.941	-0.975	0.264	1	0.0	6601	5715
102830778	14.6	13.8	32	5607	236	4.109	0.536	0.218	0.132	1	0.0	6618	6443

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log g [dex]	Δ log g [dex]	M/H [dex]	Δ M/H [dex]	$vsini$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102830798	14.4	13.7	53	6454	251	3.845	0.808	0.283	0.101	87	0.0	5323	6403
102831226	13.0	12.4	55	6229	248	4.017	0.946	-0.291	0.091	1	0.0	6585	5780
102831430	14.4	13.1	32	5493	220	3.462	0.692	0.126	0.101	1	-83.0	6579	6221
102831981	15.5	14.1	33	5664	249	3.260	0.636	0.305	0.146	11	-83.0	6563	6189
102832489	14.1	13.5	61	6742	273	3.956	0.846	-0.099	0.111	101	-83.0	6604	8279
102832522	14.1	13.4	43	5871	267	4.055	0.636	0.163	0.108	11	0.0	6597	5589
102832544	14.5	13.6	36	5783	100	4.072	0.199	0.046	0.112	1	0.0	5283	5633
102832713	15.6	14.3	40	5683	290	3.561	0.791	-0.164	0.104	1	0.0	6626	5604
102833473	13.3	12.7	49	6483	289	4.225	0.754	0.010	0.100	103	0.0	6663	5775
102833698	14.5	13.8	52	6557	296	3.955	0.776	0.482	0.098	169	-83.0	6623	6551
102833756	15.3	14.5	55	6353	266	3.826	0.907	-0.222	0.107	61	-83.0	6581	6160
102834139	15.9	14.7	31	5388	104	3.793	0.179	0.035	0.116	1	-83.0	6627	5995
102834274	15.2	14.4	51	9371	376	3.966	0.337	0.873	0.160	1	0.0	7515	8959
102834693	13.7	13.1	81	6410	244	3.680	0.950	-0.501	0.223	71	-83.0	6577	6883
102835426	14.4	13.8	51	6270	265	3.916	0.805	-0.134	0.099	31	0.0	6578	6067
102835561	16.0	15.3	47	6206	100	4.152	0.227	-0.028	0.090	1	-83.0	6556	5796
102835581	14.5	13.9	49	6754	268	3.823	0.872	0.068	0.103	1	0.0	6603	6893
102836099	14.0	13.4	62	6142	243	3.604	0.997	-0.470	0.201	1	-83.0	6609	6358
102837418	13.1	12.5	71	6066	249	3.544	0.962	-0.491	0.211	1	-83.0	6597	6241
102837995	13.4	12.9	57	6467	303	3.984	0.746	0.447	0.075	181	-83.0	6576	7527
102838137	14.6	14.0	40	6081	256	3.884	0.665	0.447	0.077	31	0.0	6722	5610
102838592	14.3	13.2	33	5285	206	4.070	0.535	-0.112	0.117	1	0.0	6775	5584
102839019	13.3	12.7	64	5980	240	3.782	0.891	-0.468	0.209	181	0.0	6577	5784
102839411	13.2	12.6	46	6345	273	3.904	0.820	0.100	0.094	1	-83.0	6603	6114
102840236	13.4	12.7	43	5950	281	4.058	0.651	0.204	0.130	1	-83.0	6563	5644
102840631	13.9	13.0	47	5795	286	3.814	0.749	-0.152	0.093	1	-83.0	6744	5307
102840663	15.2	14.5	48	6434	269	3.935	0.853	-0.083	0.086	1	0.0	5338	5778
102840811	15.7	14.9	32	5637	246	4.394	0.513	-0.177	0.109	1	-83.0	5271	5501
102840976	13.2	12.4	29	5591	226	4.466	0.401	0.207	0.149	1	-83.0	6610	6155
102841116	15.0	14.3	47	6032	238	4.067	0.919	-0.464	0.201	91	0.0	6647	5695

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102841702	14.1	13.5	57	6731	274	4.101	0.848	-0.157	0.089	1	-83.0	6637	6535
102842076	14.8	13.4	26	5213	152	3.402	0.539	0.393	0.096	11	0.0	6645	7134
102842473	14.8	14.1	47	6359	301	3.696	0.787	0.275	0.111	1	-83.0	6566	6537
102843189	13.5	12.9	47	5903	267	4.121	0.773	-0.195	0.083	1	0.0	6676	5719
102843204	13.8	13.2	56	6600	303	4.137	0.639	0.582	0.137	161	-166.0	6716	6513
102843526	15.2	14.2	46	5626	250	3.761	0.786	-0.382	0.171	1	0.0	6614	6167
102843705	15.0	14.4	74	7021	275	3.757	0.936	-0.261	0.112	15	0.0	6798	8739
102843786	15.6	14.8	37	5716	261	4.202	0.629	-0.070	0.112	1	-83.0	6614	5331
102844002	15.5	14.1	28	5560	125	3.797	0.538	0.524	0.119	1	-83.0	5347	6679
102844199	13.9	12.7	31	5268	117	3.522	0.548	0.174	0.141	11	0.0	6689	7210
102844368	15.7	14.9	52	6367	323	3.946	0.693	-0.279	0.118	77	0.0	6714	5637
102845018	15.0	14.3	48	8112	129	4.711	0.231	-0.235	0.207	19	0.0	7434	9209
102845335	16.2	15.2	36	6558	360	4.165	0.621	0.552	0.123	1	-166.0	6733	5607
102845947	14.0	13.3	41	6104	290	4.065	0.683	0.057	0.096	1	0.0	6630	5671
102846260	13.7	13.0	47	6410	101	3.867	0.311	-0.009	0.098	1	0.0	5276	6340
102846305	15.7	15.0	43	6483	313	3.928	0.760	0.431	0.082	1	-83.0	5233	6680
102846430	14.2	13.5	54	6362	285	4.093	0.799	0.182	0.099	73	-83.0	6615	5787
102846567	14.9	14.3	67	6982	272	3.866	0.930	-0.250	0.123	1	0.0	6641	8509
102847599	13.3	12.5	45	5608	274	3.420	0.863	-0.414	0.192	1	-83.0	6630	5642
102848020	13.6	12.8	46	5904	285	3.762	0.750	0.096	0.116	71	-83.0	6674	5372
102848809	15.5	14.7	45	5794	254	4.151	0.775	-0.382	0.167	1	0.0	6658	5662
102848882	14.2	13.0	42	5808	287	3.744	0.766	-0.171	0.106	1	-83.0	6724	5203
102848893	14.4	13.1	33	5431	169	3.379	0.489	0.495	0.107	3	0.0	6696	5463
102849060	15.0	14.1	36	6034	271	4.149	0.614	0.359	0.113	5	-83.0	6556	5611
102849245	14.6	13.8	46	8257	476	4.342	0.545	0.083	0.167	1	0.0	7530	8985
102849904	14.4	13.4	27	5049	165	4.068	0.387	0.276	0.151	11	0.0	6663	7093
102849941	14.3	13.6	51	6303	280	3.694	0.752	0.118	0.109	91	-83.0	5218	5787
102850002	14.1	13.4	56	6592	265	3.781	0.789	-0.103	0.099	1	0.0	6633	7143
102850227	16.1	15.1	34	6030	279	4.037	0.672	0.211	0.111	1	-166.0	5366	5614
102850285	14.9	13.8	30	5767	179	3.888	0.458	0.372	0.104	1	-83.0	6691	7059

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	$v \sin i$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102850328	14.2	13.5	50	6045	259	3.493	0.882	-0.376	0.169	1	0.0	6568	5778
102851470	14.9	14.1	36	5172	199	4.466	0.362	-0.234	0.141	11	-83.0	6768	8991
102851590	14.7	13.3	30	5306	157	3.400	0.615	0.190	0.097	5	0.0	6561	6928
102851654	13.9	13.1	35	5643	221	4.565	0.381	-0.266	0.094	1	0.0	6680	6004
102851759	15.6	14.9	43	6488	278	3.795	0.862	0.084	0.140	1	0.0	6704	7362
102852412	13.9	13.1	37	5954	280	4.241	0.615	0.092	0.103	1	0.0	6700	5667
102852432	14.1	13.0	37	5648	99	3.870	0.180	0.022	0.102	1	0.0	6599	5698
102853150	14.6	13.4	36	5802	203	3.612	0.552	0.174	0.121	11	0.0	6603	5491
102853167	14.5	13.3	24	5211	194	3.683	0.465	0.402	0.099	1	0.0	5379	6834
102853429	14.0	13.5	101	7696	314	3.982	0.856	0.083	0.106	121	-83.0	6814	9001
102853510	13.0	12.5	53	6401	268	4.007	0.836	-0.135	0.087	51	0.0	6601	6711
102853744	15.4	14.1	35	5498	256	3.374	0.639	0.025	0.146	5	0.0	6592	5241
102854684	13.3	12.8	72	7433	311	4.177	0.754	0.092	0.096	41	0.0	6818	8731
102855409	14.4	13.2	36	5653	295	3.307	0.686	0.056	0.126	11	0.0	6616	6062
102855723	14.6	14.0	63	6788	277	3.787	0.879	-0.068	0.089	1	-83.0	6656	7829
102857143	15.5	14.7	43	5950	100	4.271	0.203	0.462	0.092	81	-83.0	6586	-14956
102857234	14.6	14.0	48	9387	466	3.989	0.510	0.834	0.164	87	0.0	7389	9532
102857458	14.3	13.1	32	5260	222	3.546	0.527	0.189	0.128	11	0.0	6660	6228
102857568	13.5	12.9	64	5733	251	3.939	0.856	-0.520	0.208	11	-166.0	6597	5287
102857914	14.5	13.2	33	5386	206	3.565	0.594	0.141	0.151	1	0.0	6835	6465
102858524	15.0	14.2	37	6111	296	3.780	0.657	0.456	0.090	121	-83.0	6573	5690
102858554	14.9	13.5	26	5329	182	3.787	0.517	0.316	0.112	1	-83.0	6684	5303
102859125	13.0	12.3	48	6339	295	3.664	0.809	0.200	0.104	1	83.0	6631	6377
102859250	14.5	13.7	47	6018	250	4.382	0.641	-0.275	0.108	1	-83.0	6699	5339
102859497	15.1	14.1	49	9164	416	4.012	0.538	0.816	0.164	191	0.0	7270	8751
102859900	13.9	12.8	36	5797	269	3.721	0.694	0.135	0.106	1	-83.0	6610	5395
102860046	14.1	13.0	40	5278	292	2.880	0.653	-0.391	0.183	1	0.0	6630	6512
102860049	13.4	12.8	55	6161	253	3.978	0.934	-0.336	0.087	1	0.0	6682	6135
102860066	13.0	12.3	49	5942	280	3.761	0.825	-0.103	0.076	81	0.0	6589	5762
102860191	13.4	12.5	34	5727	264	3.920	0.595	0.099	0.116	1	0.0	6560	6033

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102860515	13.4	12.6	34	6128	278	4.465	0.506	0.303	0.109	1	0.0	6782	5646
102861390	15.0	14.3	62	6812	100	4.473	0.240	-0.038	0.081	41	-83.0	6670	6730
102861544	14.8	14.1	80	17211	3332	2.671	0.836	-0.282	0.984	1	0.0	6837	5799
102861813	14.7	14.0	43	5962	254	4.281	0.696	-0.207	0.090	1	0.0	6652	5623
102862629	13.8	13.2	60	6665	100	3.890	0.294	0.009	0.088	1	-83.0	6653	7700
102863204	16.5	14.5	34	12893	4354	3.355	1.103	0.236	0.583	1	-166.0	6959	5656
102863676	12.6	12.2	75	6770	271	3.729	0.908	-0.336	0.112	1	-166.0	6638	8402
102863995	15.2	14.5	50	6140	314	3.867	0.688	0.302	0.109	171	0.0	6626	6029
102864182	14.0	13.5	52	9881	545	4.149	0.465	0.917	0.110	105	0.0	7365	9091
102864379	13.8	13.2	50	6308	267	4.026	0.831	-0.186	0.089	1	0.0	6746	5794
102864567	14.6	14.0	49	6824	101	4.315	0.231	0.006	0.115	1	0.0	6561	7492
102864648	14.4	13.7	41	5934	100	4.242	0.216	-0.008	0.088	1	0.0	6623	5658
102864650	15.5	14.8	67	8032	369	4.119	0.676	0.270	0.100	1	-83.0	6881	8177
102865268	13.5	12.9	50	5887	291	4.052	0.709	0.075	0.109	151	0.0	6613	5710
102865575	14.0	13.3	62	6378	265	3.611	0.906	-0.220	0.115	1	-83.0	6620	6882
102865701	14.1	13.6	71	6504	265	3.756	0.975	-0.271	0.093	1	-83.0	6634	7329
102865868	15.5	14.7	35	6123	275	4.259	0.624	-0.102	0.113	1	-83.0	6648	5672
102865939	13.6	13.1	57	7461	292	4.062	0.807	0.262	0.105	17	-83.0	6759	8818
102866012	14.5	13.5	41	5937	282	4.067	0.643	0.134	0.113	1	-83.0	6824	5361
102866234	15.8	15.1	50	9880	557	4.158	0.463	0.946	0.093	1	0.0	7503	9130
102866280	15.4	14.7	48	6611	267	3.846	0.805	-0.066	0.113	1	-83.0	6607	7128
102866288	12.7	12.3	46	10018	4503	3.477	1.062	0.930	0.121	71	0.0	7244	9241
102866683	14.5	13.8	50	8411	447	4.348	0.537	0.197	0.163	71	0.0	7422	9251
102866955	14.7	13.7	45	5502	276	3.917	0.783	-0.376	0.174	1	-83.0	6613	5681
102867465	14.6	13.8	72	6046	296	4.025	0.713	0.208	0.127	69	-83.0	6550	5663
102867554	14.5	13.9	62	6933	101	4.409	0.297	-0.055	0.103	1	-83.0	6619	8246
102867699	14.0	13.3	61	6655	278	3.901	0.767	-0.126	0.086	1	-83.0	6829	7170
102868238	14.2	13.0	38	6002	299	3.824	0.697	0.236	0.111	1	0.0	6727	5362
102868289	13.3	12.6	39	6024	274	4.271	0.645	-0.080	0.097	1	0.0	6732	5690
102868462	15.4	14.7	41	6782	288	3.951	0.789	0.273	0.087	51	-83.0	6634	7415

Table B.1. continued.

CoID	<i>B</i> _{mag} [mag]	<i>V</i> _{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log _e [dex]	Δ log _e [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	<i>v_r</i> [km/s]	Teff CaK [K]	Teff Gband [K]
102869289	13.4	12.9	67	7019	101	4.544	0.250	0.016	0.088	1	0.0	6710	8355
102869293	15.8	15.1	45	6967	311	4.026	0.759	0.479	0.092	161	-83.0	6707	6665
102869454	15.1	14.4	36	6260	290	4.492	0.499	0.065	0.098	1	-83.0	6793	5371
102869544	14.0	13.3	54	6340	271	3.709	0.834	-0.126	0.087	1	-83.0	6629	6427
102869824	14.9	14.3	68	6603	258	3.590	0.972	-0.407	0.184	1	-83.0	6594	7715
102870846	14.1	13.5	49	6188	276	3.901	0.843	-0.093	0.132	1	-83.0	6613	6144
102870852	15.0	14.3	44	5874	265	4.126	0.760	-0.311	0.076	1	-83.0	6699	5687
102871483	15.3	14.4	44	6873	291	3.889	0.759	0.295	0.120	1	-166.0	5333	6915
102871685	14.8	14.3	62	8273	393	4.409	0.518	0.366	0.097	71	0.0	7508	8003
102872615	13.7	13.3	135	9244	164	3.719	0.105	-0.008	0.123	121	-83.0	7898	9785
102874334	13.9	13.2	50	6431	100	4.660	0.196	0.029	0.080	1	83.0	6748	5709
102874506	16.1	15.3	29	5748	261	4.168	0.529	0.371	0.103	1	-83.0	6670	5245
102874518	14.7	14.0	61	6329	232	3.595	0.968	-0.389	0.169	1	0.0	6625	6672
102874549	16.2	15.3	37	5806	237	4.412	0.610	-0.370	0.135	1	0.0	6705	5627
102874833	15.7	14.7	41	5673	99	3.642	0.212	0.018	0.129	1	-83.0	5285	5292
102874906	14.1	13.6	86	7753	351	3.968	0.719	-0.075	0.087	1	0.0	6825	8800
102875129	14.4	13.2	35	5425	300	3.205	0.686	-0.148	0.118	11	0.0	6565	5322
102875170	16.0	15.0	31	6128	284	4.070	0.615	0.383	0.086	71	-83.0	5311	5683
102875179	13.9	13.2	53	6446	100	3.713	0.285	-0.032	0.082	81	0.0	6770	6625
102875592	14.2	13.1	41	5961	306	3.984	0.672	0.160	0.087	23	0.0	6746	5254
102875987	14.9	14.2	88	7928	216	2.941	0.973	0.530	0.122	81	-83.0	6833	8539
102876183	15.6	14.7	37	6379	101	4.857	0.135	0.133	0.103	31	-83.0	6814	5619
102876246	16.3	14.2	49	9903	4279	3.575	1.025	0.960	0.120	1	0.0	7482	8960
102876362	15.7	14.8	37	5963	307	3.975	0.635	0.285	0.095	61	0.0	6827	5613
102877354	14.9	14.2	48	6199	100	4.458	0.192	0.002	0.085	1	0.0	6598	5770
102878685	15.6	15.0	36	6801	275	3.887	0.801	0.232	0.124	1	-83.0	6616	7662
102878909	16.3	15.4	42	6858	319	4.220	0.653	0.231	0.108	39	-83.0	6781	6054
102879175	14.1	13.4	55	6322	262	3.849	0.863	-0.191	0.109	41	-83.0	6551	6549
102879180	12.8	12.3	98	7668	334	3.941	0.839	0.109	0.110	121	0.0	6871	9045
102879330	15.4	14.7	39	5957	264	4.217	0.638	0.289	0.129	5	-83.0	6632	5648

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102879473	13.9	13.3	53	6602	101	4.425	0.241	-0.025	0.081	11	0.0	5374	6805
102879977	14.3	13.7	38	6633	100	4.142	0.280	-0.053	0.116	1	-166.0	6647	6370
102880413	16.7	14.4	25	5306	179	3.042	0.596	0.507	0.112	1	-83.0	5260	6738
102880537	15.1	14.3	43	5966	296	3.874	0.723	0.137	0.114	95	-83.0	6573	5648
102880740	14.9	14.2	59	6293	292	3.851	0.797	0.201	0.095	165	0.0	6602	6621
102881068	15.1	14.3	43	6072	265	4.131	0.723	-0.101	0.101	1	0.0	6551	5688
102881564	14.2	13.5	33	5587	247	4.344	0.532	-0.105	0.112	1	0.0	6594	5320
102881900	14.3	13.7	52	6456	252	3.857	0.999	-0.292	0.107	1	0.0	6627	6534
102882598	14.2	13.5	53	5894	276	3.700	0.825	-0.266	0.096	21	83.0	6552	5742
102882944	14.1	13.5	48	6568	101	4.463	0.247	0.017	0.096	1	0.0	6692	6737
102883372	12.8	12.3	60	6398	258	3.633	0.978	-0.262	0.092	1	0.0	6612	6933
102884192	14.7	13.9	29	5351	227	4.316	0.423	0.168	0.130	1	0.0	6728	6269
102884913	15.0	14.2	36	5785	261	4.359	0.578	-0.055	0.097	1	-166.0	5367	5266
102885333	15.2	14.1	41	5806	272	3.533	0.649	0.347	0.122	11	-83.0	6637	5791
102885642	14.6	13.4	31	5586	210	3.493	0.603	0.455	0.092	1	-83.0	6661	5220
102885677	14.5	13.8	48	6199	277	3.743	0.827	-0.135	0.092	31	0.0	6630	5798
102885851	15.3	14.6	40	5893	101	4.819	0.139	-0.009	0.132	1	0.0	6785	5433
102887167	14.8	14.3	64	9226	582	4.283	0.463	0.398	0.096	1	-83.0	7795	8865
102887243	14.9	14.3	69	7375	300	4.284	0.678	0.183	0.077	61	0.0	6811	7523
102887425	13.8	12.5	38	5593	101	3.802	0.191	-0.093	0.094	5	-83.0	6738	6126
102887483	15.4	14.7	56	6473	265	3.779	0.859	-0.203	0.097	1	-83.0	6570	6656
102889080	13.9	13.3	52	6508	280	3.794	0.842	0.099	0.086	111	0.0	6600	6931
102889384	15.2	14.6	52	6266	264	3.836	0.920	-0.153	0.094	1	-83.0	6607	6245
102890318	14.2	13.6	72	6403	277	3.672	0.968	-0.371	0.135	51	-166.0	5276	6541
102891028	15.8	15.0	35	6738	290	3.955	0.752	0.275	0.127	1	-83.0	5363	6751
102891154	14.3	13.7	51	6541	278	3.766	0.854	0.096	0.098	1	0.0	6583	7164
102891369	15.5	14.8	45	6812	101	4.507	0.215	-0.014	0.117	1	-83.0	6677	6842
102891890	14.2	13.5	44	6480	100	4.035	0.270	0.030	0.095	1	0.0	6698	6554
102891942	14.5	13.3	30	5222	119	3.182	0.604	0.343	0.132	1	-83.0	5317	6161
102892612	14.1	12.7	39	5815	100	4.068	0.190	-0.021	0.089	11	-83.0	6876	5608

Table B.1. continued.

CoID	<i>B</i> _{mag} [mag]	<i>V</i> _{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log _e [dex]	Δ log _e [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	<i>v_r</i> [km/s]	Teff CaK [K]	Teff Gband [K]
102892823	15.0	14.3	59	7152	110	4.760	0.188	0.038	0.104	1	-83.0	6822	8237
102893243	15.0	14.2	41	6203	282	3.805	0.809	-0.134	0.110	1	-83.0	6557	5773
102894215	15.5	14.7	35	5710	273	4.162	0.587	0.202	0.162	1	0.0	5360	5327
102894327	13.6	13.0	43	6172	267	4.024	0.704	0.327	0.116	1	-83.0	6611	5742
102894475	14.3	13.6	68	6794	283	4.077	0.790	-0.200	0.098	1	-83.0	6713	7386
102895008	14.6	13.8	33	5731	252	4.172	0.519	0.506	0.113	1	0.0	6631	5767
102895081	14.3	13.6	53	6423	141	2.999	0.831	-0.063	0.113	1	0.0	6642	6216
102895575	14.9	14.2	44	6374	100	4.190	0.221	0.013	0.103	1	-83.0	6645	6215
102896190	14.6	14.0	35	7058	294	3.969	0.759	0.298	0.163	1	83.0	5311	7196
102896573	14.3	13.7	58	6853	268	3.718	0.911	-0.056	0.093	1	-83.0	6597	7756
102896612	16.0	14.3	26	5453	216	2.844	0.613	0.381	0.084	1	-83.0	6691	6603
102896641	15.7	14.2	34	6086	300	3.703	0.738	0.207	0.127	1	-83.0	6823	5718
102897181	15.2	14.4	42	6191	296	3.838	0.777	0.190	0.102	61	0.0	6620	5717
102897355	15.6	14.9	32	6350	290	3.832	0.780	0.129	0.148	1	-83.0	6633	5774
102897454	14.4	13.8	53	6718	276	3.891	0.850	0.078	0.102	1	-83.0	6647	7308
102897488	14.4	13.8	80	6860	260	3.850	0.962	-0.453	0.255	161	-166.0	6698	7830
102897677	16.0	14.1	25	12151	4419	3.361	1.087	0.118	0.560	1	-83.0	6664	5324
102897725	15.1	14.5	41	6665	280	3.811	0.814	0.217	0.119	1	-83.0	6565	6889
102897931	13.9	13.3	52	6419	101	4.699	0.176	0.009	0.106	61	0.0	6662	5697
102898414	14.3	13.6	58	6128	309	3.877	0.750	0.107	0.094	167	0.0	6618	5757
102898639	15.7	14.3	29	6024	183	3.962	0.569	0.547	0.127	1	-83.0	6822	5721
102898675	15.7	15.0	46	6024	242	3.886	0.997	-0.419	0.194	1	0.0	6642	5748
102898786	14.1	13.4	56	6779	269	3.826	0.877	0.117	0.094	1	0.0	6710	7622
102898999	14.8	14.1	48	6135	266	3.784	0.948	-0.340	0.087	1	-83.0	5364	6039
102899530	15.8	15.0	73	16443	3309	2.574	0.856	0.580	0.387	1	-83.0	6899	5796
102899535	15.4	14.7	41	6579	321	4.059	0.695	0.525	0.119	191	-83.0	6586	6765
102899709	13.6	13.0	83	6997	289	3.697	0.894	0.109	0.104	1	0.0	6625	7925
102900304	14.6	13.4	25	5373	209	3.454	0.567	0.506	0.111	1	0.0	6841	7937
102900683	13.1	12.5	53	6497	101	4.388	0.270	-0.034	0.087	1	0.0	6687	6604
102901563	14.1	13.4	66	6243	252	3.906	0.967	-0.454	0.199	71	-83.0	6642	5790

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102901677	15.0	14.4	49	7538	316	4.188	0.725	0.263	0.139	51	-83.0	6842	7622
102901739	13.6	13.0	50	6528	278	3.834	0.837	0.082	0.088	1	0.0	5334	6766
102902532	14.0	13.5	90	7700	319	4.151	0.719	0.313	0.112	161	0.0	6897	10834
102904184	13.9	12.9	34	5833	232	4.149	0.580	0.521	0.119	3	-83.0	6677	6674
102904672	15.9	14.4	28	12789	4265	3.278	1.091	0.349	0.413	1	-83.0	6718	6313
102904934	14.0	13.4	55	6777	101	4.491	0.286	-0.002	0.083	1	0.0	6731	7247
102904997	15.0	14.3	56	6338	249	3.730	0.971	-0.464	0.210	71	-83.0	6602	6867
102905110	14.1	13.0	40	5681	243	3.602	0.706	-0.128	0.101	1	-83.0	6573	6371
102906589	13.5	12.8	53	6280	271	4.232	0.702	-0.225	0.115	31	0.0	6697	5725
102907435	14.9	14.2	52	6204	274	3.915	0.939	-0.376	0.162	1	0.0	6627	5760
102907473	14.4	13.7	54	6575	265	3.828	0.800	-0.061	0.090	1	-83.0	6548	7133
102907887	13.8	13.2	42	5892	268	4.075	0.798	-0.162	0.100	1	-83.0	5322	5734
102907889	13.7	13.1	54	6562	265	3.849	0.810	-0.086	0.090	1	-83.0	6551	6935
102907897	15.1	14.0	32	5415	98	4.439	0.143	0.031	0.115	1	0.0	6632	5933
102907924	14.9	14.3	56	6699	101	4.472	0.238	0.015	0.088	1	0.0	6571	7315
102908123	14.1	13.1	42	5503	253	3.709	0.724	-0.507	0.239	11	-249.0	6738	5870
102909260	13.3	12.7	45	6369	279	3.835	0.809	0.076	0.097	1	0.0	6572	6423
102909815	13.5	13.0	68	6658	262	3.726	0.945	-0.242	0.112	41	0.0	6653	7762
102909906	15.0	13.7	37	5604	200	3.640	0.548	0.154	0.089	11	-83.0	6815	5338
102910113	14.7	14.1	50	6395	261	3.726	0.982	-0.209	0.118	11	-166.0	6618	6362
102910162	14.3	13.7	57	6779	279	3.892	0.852	0.079	0.101	1	-83.0	6690	8393
102910186	14.7	14.1	45	6454	319	3.990	0.733	0.528	0.120	161	0.0	6595	6729
102910306	14.6	14.0	57	6652	101	4.320	0.218	-0.030	0.090	1	0.0	6620	6465
102910396	15.0	14.4	48	7114	286	4.156	0.742	0.115	0.111	1	-83.0	6723	8004
102910624	14.3	13.7	53	6503	263	3.851	0.806	-0.077	0.088	1	-83.0	6650	6976
102910755	13.5	12.9	54	6609	100	4.159	0.289	-0.022	0.099	11	0.0	6641	7059
102910817	15.1	14.4	38	6443	275	4.218	0.717	-0.047	0.088	45	0.0	5229	5691
102911838	15.3	14.1	34	5314	173	2.996	0.530	0.391	0.089	11	0.0	5308	6647
102911957	13.4	12.6	37	6081	292	4.332	0.609	0.248	0.090	1	-166.0	6725	5974
102912223	15.1	14.5	49	8644	462	4.369	0.554	0.052	0.136	1	0.0	7555	9022

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log g [dex]	Δ log g [dex]	M/H [dex]	Δ M/H [dex]	$v \sin i$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102912429	14.3	13.6	47	6652	289	3.877	0.786	0.312	0.099	1	0.0	5316	6934
102912741	13.8	13.3	57	7275	281	4.056	0.895	0.280	0.093	45	0.0	6866	9201
102913285	15.3	14.3	41	5705	179	4.456	0.319	-0.042	0.090	7	0.0	6775	8202
102913667	13.8	13.4	75	6934	282	3.679	0.971	-0.168	0.125	1	-83.0	6700	8613
102913695	14.8	14.1	40	6199	100	4.282	0.215	-0.063	0.085	103	0.0	5354	5633
102914214	14.0	12.7	24	5334	119	3.390	0.553	0.570	0.123	1	-83.0	6655	7087
102914302	15.1	14.0	31	5444	241	3.784	0.557	0.075	0.102	1	-83.0	6585	6141
102914335	13.4	12.8	50	6583	261	3.908	0.812	-0.069	0.086	1	0.0	6653	6652
102914353	14.2	13.6	60	7074	100	4.306	0.308	-0.067	0.103	27	0.0	6638	8574
102914564	13.6	13.0	50	6071	271	3.827	0.933	-0.275	0.085	1	-83.0	6659	5792
102915408	12.7	12.3	101	8053	399	4.368	0.563	0.487	0.099	1	-83.0	6973	9176
102915842	14.7	13.5	32	5499	179	3.220	0.649	0.341	0.133	11	-83.0	5307	5888
102916090	14.5	13.9	46	6033	256	4.004	0.888	-0.258	0.087	1	-83.0	6646	5730
102916387	15.2	14.4	47	6118	309	3.759	0.817	0.066	0.080	1	-83.0	6661	5763
102917266	13.1	12.5	56	6027	258	3.664	0.892	-0.419	0.181	1	0.0	6643	5771
102917296	15.2	14.4	45	6061	300	3.871	0.668	0.466	0.091	141	-83.0	6659	5660
102917369	14.1	13.5	66	6303	258	3.676	0.967	-0.366	0.136	1	-83.0	6696	6912
102917952	15.1	14.3	39	5801	227	4.344	0.567	-0.276	0.093	1	0.0	6780	5202
102918256	14.0	12.7	32	5404	145	3.623	0.465	0.161	0.118	11	-83.0	6727	6323
102918350	14.3	13.6	49	6293	322	3.820	0.745	0.438	0.073	181	0.0	6591	6174
102918353	13.5	12.7	37	6086	264	4.049	0.599	0.360	0.106	61	-166.0	6794	5606
102918375	13.0	12.6	109	7863	332	4.180	0.736	0.341	0.086	191	0.0	6910	8616
102918510	14.1	13.6	55	7175	314	4.157	0.664	0.373	0.096	41	-166.0	6609	7772
102918586	12.8	12.4	82	7797	343	4.342	0.629	0.300	0.080	75	-83.0	7249	12197
102919272	14.4	13.1	39	5764	242	3.580	0.663	0.329	0.119	1	0.0	6654	5636
102919431	14.5	13.7	38	5509	247	4.259	0.586	-0.255	0.102	1	83.0	5344	6330
102919499	13.3	12.8	60	6466	256	3.992	0.802	-0.072	0.075	1	0.0	6627	6520
102919595	13.7	13.1	52	6500	100	4.054	0.285	0.002	0.094	1	-83.0	6630	6753
102919925	14.8	14.1	49	6359	100	3.935	0.270	-0.011	0.104	1	0.0	5373	7108
102920013	14.7	14.4	85	8375	623	4.284	0.564	-0.338	0.162	1	-166.0	7496	9263

Table B.1. continued.

ColD	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102921011	13.1	12.6	54	6737	270	3.757	0.890	0.090	0.083	1	-83.0	6600	9169
102921336	14.4	13.8	53	6108	271	3.661	0.934	-0.308	0.076	91	83.0	5309	6132
102921797	13.5	12.8	47	8534	445	4.221	0.614	0.050	0.199	1	0.0	7419	9299
102922004	13.7	12.6	32	5687	102	3.539	0.192	0.041	0.130	1	-83.0	6646	6197
102923122	14.9	14.2	41	6857	293	3.868	0.761	0.263	0.124	1	-83.0	6632	6772
102924346	14.4	13.9	51	6754	275	3.927	0.791	-0.127	0.103	41	0.0	5374	7733
102924517	14.5	13.9	67	7981	348	4.390	0.541	0.564	0.138	181	-249.0	6760	7802
102924774	13.6	13.2	90	7841	334	3.965	0.797	0.185	0.079	105	-83.0	6842	8753
102925852	12.7	12.4	136	9344	424	3.501	0.331	0.361	0.095	151	0.0	7747	10064
102927705	14.4	13.9	79	6732	291	3.762	0.926	-0.299	0.123	1	-83.0	6669	7922
102928265	15.0	14.4	43	7090	293	4.068	0.772	-0.120	0.134	1	-83.0	6687	7673
102928540	14.7	13.6	36	5544	258	3.355	0.665	-0.090	0.129	1	0.0	6591	6160
102929544	14.7	14.1	36	6355	307	3.938	0.766	0.203	0.105	191	0.0	6708	5754
102930797	14.4	13.8	53	6618	277	3.798	0.788	-0.101	0.101	1	-83.0	6572	7182
102931201	14.2	13.7	60	6506	268	3.915	0.802	-0.119	0.112	1	0.0	6562	7174
102932182	12.9	12.4	54	6482	301	4.049	0.694	0.457	0.084	161	0.0	6577	6797
102933066	15.0	14.4	52	6975	300	3.952	0.815	-0.128	0.123	31	-83.0	6653	7495
102933343	14.1	13.5	56	6468	264	3.870	0.819	-0.079	0.108	1	0.0	6633	7204
102933825	14.3	13.7	59	6560	252	3.871	0.743	-0.083	0.084	1	0.0	5348	6851
102934041	13.6	13.2	120	8341	425	3.939	0.716	0.115	0.118	187	-83.0	6962	10146
102934386	13.8	13.1	48	6313	293	3.758	0.848	0.089	0.101	1	-83.0	5292	6269
102934997	13.9	13.3	51	6531	284	4.026	0.787	0.220	0.073	101	0.0	6586	6407
102935790	14.4	13.8	56	6812	100	4.275	0.278	0.016	0.099	1	0.0	6589	7890
102936418	13.6	12.9	44	5967	294	3.991	0.685	0.296	0.120	47	-83.0	6620	5658
102936452	13.6	12.8	35	5424	98	4.450	0.150	0.005	0.136	11	0.0	6675	5896
102936624	13.9	13.3	47	8175	437	4.329	0.561	-0.050	0.250	1	0.0	7440	9282
102937268	14.2	13.7	62	7923	339	4.326	0.601	0.535	0.123	171	0.0	6828	8502
102937762	14.4	13.8	33	6248	310	3.889	0.684	0.266	0.120	133	-83.0	5267	5782
102938044	14.9	14.3	50	6305	100	4.327	0.092	0.035	0.094	1	0.0	6618	6355
102938064	13.3	12.6	56	6196	288	3.500	0.901	-0.181	0.091	1	-83.0	6568	6459

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log g [dex]	Δ log g [dex]	M/H [dex]	Δ M/H [dex]	$v \sin i$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102938967	15.5	13.7	26	5569	146	3.625	0.299	0.494	0.108	1	0.0	6915	5670
102939944	15.0	14.4	48	6542	278	4.308	0.613	-0.201	0.099	1	0.0	6670	5778
102940477	14.3	13.1	34	5373	254	3.079	0.683	-0.134	0.113	1	0.0	6579	7156
102940511	13.1	12.7	47	8367	455	4.383	0.535	0.109	0.187	1	0.0	7447	9085
102940824	14.7	14.1	52	13621	4367	3.410	1.080	0.894	0.435	191	-83.0	6933	7050
102941525	14.4	13.8	57	6758	101	4.121	0.297	-0.009	0.106	1	0.0	6688	7600
102941663	14.7	14.0	53	6392	99	3.833	0.264	0.015	0.078	111	-83.0	6549	6775
102943335	14.8	14.2	52	6277	301	3.985	0.724	0.218	0.105	163	0.0	5359	5794
102944802	14.6	13.5	36	5389	264	3.956	0.622	-0.229	0.099	11	-83.0	6830	6347
102945777	13.8	13.2	44	6355	277	3.818	0.854	0.123	0.116	1	0.0	6674	6412
102947113	13.6	12.9	46	6302	268	4.208	0.746	-0.103	0.088	1	0.0	6687	5757
102947424	13.0	12.5	53	9258	3644	3.223	1.091	0.759	0.168	1	0.0	6602	7338
102947620	14.3	13.6	43	6321	244	4.266	0.688	-0.111	0.086	1	0.0	6719	5735
102947915	13.8	12.6	40	5391	208	3.562	0.670	-0.380	0.171	11	0.0	6738	7072
102948235	14.5	13.8	55	6398	274	3.989	0.818	-0.113	0.100	1	0.0	6561	6575
102948360	13.2	12.6	43	6096	99	4.248	0.204	-0.000	0.131	71	0.0	6684	5784
102949330	13.4	12.9	67	6427	268	3.799	0.897	-0.372	0.147	71	-83.0	6672	5795
102949650	14.4	13.2	38	5553	100	3.450	0.236	0.010	0.110	1	-83.0	6551	5784
102949867	14.4	13.6	55	6419	116	4.825	0.129	-0.023	0.107	1	0.0	6817	5633
102950264	13.7	13.0	41	6150	297	4.013	0.684	0.363	0.106	141	0.0	6591	5720
102951281	14.2	13.5	40	5932	253	4.346	0.615	-0.103	0.096	21	0.0	6814	5465
102951851	14.3	13.5	41	5912	252	4.328	0.641	-0.177	0.091	1	-166.0	6632	5338
102952373	15.0	14.5	43	7976	337	4.388	0.565	0.461	0.096	1	-83.0	6923	8542
102952650	14.9	14.3	58	6305	273	3.823	0.891	-0.212	0.096	61	-83.0	6553	6252
102953176	13.7	13.2	58	6632	260	4.010	0.817	-0.115	0.081	1	-83.0	6646	6551
102953294	13.1	12.4	43	5868	284	3.674	0.780	-0.108	0.090	11	0.0	6657	5685
102953361	14.4	13.7	48	5673	228	4.129	0.650	-0.403	0.179	1	-83.0	6713	5631
102953443	14.3	13.9	59	7761	316	4.183	0.692	0.057	0.124	1	0.0	6805	9223
102953822	14.5	13.9	56	6344	245	3.730	0.959	-0.481	0.220	111	-83.0	5361	6712
102954085	13.3	12.6	47	6187	312	3.865	0.722	0.240	0.117	83	-83.0	6726	5732

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102954565	13.4	12.8	63	6712	269	3.933	0.903	-0.304	0.106	1	-83.0	6739	6997
102954902	13.3	12.7	46	6465	262	3.679	0.859	-0.071	0.111	1	0.0	6779	6980
102955422	14.4	13.7	57	6677	261	3.805	0.932	-0.111	0.096	1	0.0	6652	7118
102956091	14.9	13.5	38	5779	99	3.806	0.200	-0.000	0.112	1	-83.0	6617	5258
102956263	14.6	13.9	40	6026	100	4.797	0.147	0.011	0.135	1	0.0	6668	5251
102957314	15.3	13.8	37	6031	337	3.453	1.028	0.474	0.093	21	-83.0	6904	6318
102957511	14.1	13.6	68	6881	265	3.767	0.920	-0.192	0.122	1	-83.0	6666	9745
102957850	14.4	13.8	51	6999	297	3.967	0.778	0.570	0.142	101	-83.0	6619	7268
102958599	13.0	12.7	94	14709	3487	3.639	0.966	0.759	0.168	191	-83.0	8349	9393
102959080	13.9	13.2	48	5964	99	4.070	0.217	0.003	0.113	61	0.0	6597	5726
102959167	14.1	13.4	36	6647	298	3.878	0.758	0.464	0.094	1	-83.0	5383	6778
102961196	14.1	13.5	52	6506	262	3.937	0.819	-0.132	0.115	1	-83.0	6619	6458
102964539	14.0	13.5	70	7736	110	4.809	0.177	-0.004	0.099	1	-83.0	6903	8913
102965772	14.8	14.0	36	5399	187	4.230	0.408	0.139	0.112	11	0.0	6610	6119
102965986	16.0	15.3	35	6494	304	4.025	0.672	0.340	0.109	115	0.0	6702	6399
102966272	14.2	13.5	50	6259	100	4.009	0.216	-0.009	0.106	51	0.0	6569	6110
102967567	13.0	12.4	61	7047	279	4.011	0.864	-0.124	0.091	21	0.0	6715	7491
102968100	13.5	12.9	50	6673	278	4.072	0.668	0.182	0.109	41	0.0	6652	6978
102971276	13.0	12.4	55	6126	264	3.679	0.883	-0.298	0.087	37	0.0	6582	6136
102973761	12.2	12.1	196	13847	2311	4.025	0.481	0.516	0.116	61	-83.0	8305	14162
102977224	13.4	12.9	64	7879	305	4.341	0.583	0.312	0.095	1	0.0	6968	7926
102983577	13.3	12.8	53	9352	3535	3.220	1.084	0.759	0.168	1	-83.0	6708	8314
102985378	14.9	13.5	33	5798	274	3.139	0.416	0.364	0.106	1	0.0	6787	8711
102988649	14.6	13.6	36	18044	368	2.320	0.100	-0.129	0.468	1	-83.0	6788	6737
102990294	14.7	14.2	136	13309	2267	4.006	0.449	0.560	0.127	1	-83.0	8176	16318
102965810			168	16496	2965	2.397	0.475	-1.695	0.592	1	0.0	7889	9286
102838225			73	5256	173	3.807	0.748	-2.012	0.505	1	-415.0	6556	5270
102991141			37	18250	1461	2.446	0.395	-1.944	0.664	1	-166.0	6877	5563
102858341			48	19085	1097	2.751	0.264	-1.849	0.563	3	83.0	6770	5659
102711246			35	17204	1982	2.269	0.446	-1.830	0.560	1	-166.0	7043	5350

Table B.1. continued.

ColD	B _{mag} [mag]	V _{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log _e [dex]	Δ log _e [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102730044			61	7972	5501	3.349	1.076	-1.039	0.274	11	-166.0	6608	6584
102734560			35	5214	195	4.482	0.380	-0.600	0.352	11	-83.0	6692	7275
102724829			45	5420	214	4.432	0.441	-0.539	0.238	11	-166.0	6587	6601
102929514			42	5422	253	3.664	0.705	-0.525	0.238	11	0.0	6597	5258
102889488			45	5571	230	4.373	0.557	-0.522	0.232	11	0.0	6596	5729
102854317			31	9112	5058	3.404	1.089	-0.509	0.254	5	-166.0	6598	5704
102796885			67	6198	279	3.446	0.957	-0.495	0.211	121	-83.0	5368	6914
102822642			49	5904	244	4.178	0.792	-0.481	0.204	1	0.0	6616	5661
102881763			53	5710	251	3.883	0.837	-0.476	0.204	11	0.0	6593	5717
102731395			47	5921	238	4.030	0.956	-0.465	0.200	1	0.0	5343	5729
102970435			64	6509	262	3.705	0.927	-0.465	0.200	61	-166.0	6608	7505
102905204	13.7	13.1	58	6213	239	4.087	0.948	-0.464	0.204	111	0.0	6648	5728
102987806			57	6288	208	3.704	0.794	-0.444	0.193	1	-83.0	6650	6568
102965047			63	6256	271	4.076	0.869	-0.444	0.205	121	-166.0	6780	5740
102908742			50	5956	247	4.155	0.818	-0.439	0.191	1	83.0	6633	5632
102726633			35	5157	203	4.398	0.424	-0.414	0.180	1	0.0	6577	7063
102925801	14.5	13.9	75	6557	292	3.829	0.971	-0.278	0.116	181	-249.0	5325	6050
102828090			53	6251	255	4.008	0.864	-0.410	0.186	1	0.0	6650	5689
102987678			40	5533	219	3.931	0.724	-0.393	0.187	3	0.0	6822	6066
102768041			76	6810	273	3.719	0.963	-0.392	0.168	29	-83.0	6695	7870
102978758			76	6788	277	4.017	0.884	-0.389	0.171	61	-83.0	6790	6493
102742845			58	6223	254	3.901	0.980	-0.382	0.145	1	-83.0	6611	6069
102872142			35	5181	186	4.082	0.423	-0.377	0.174	11	0.0	6692	7731
102766678			33	5526	247	4.201	0.656	-0.376	0.159	1	0.0	6698	5248
102841696			58	6332	258	3.797	0.964	-0.375	0.143	1	0.0	6634	6339
102946054			56	6221	281	3.873	0.686	-0.372	0.175	1	0.0	6730	6875
102929352			45	6240	253	3.846	0.957	-0.368	0.136	1	0.0	5344	5783
102892330			56	6339	255	3.793	0.910	-0.365	0.168	1	0.0	5365	6378
102915322	13.9	13.3	64	6000	263	3.894	0.836	-0.420	0.181	57	-83.0	6556	5686
102909813			66	6299	246	3.700	1.000	-0.361	0.131	1	0.0	6598	6604

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>v</i> sin <i>i</i> [km/s]	<i>v_r</i> [km/s]	Teff CaK [K]	Teff Gband [K]
102992501			40	5404	261	3.361	0.702	-0.350	0.132	7	0.0	6664	5335
102966660			59	6495	254	3.752	0.989	-0.344	0.147	1	0.0	6729	7233
102969494			44	5484	245	3.686	0.728	-0.337	0.088	1	0.0	6629	6335
102799940			43	5944	253	3.993	0.864	-0.335	0.088	1	-83.0	6611	5662
102800913			49	5876	264	3.808	0.833	-0.326	0.106	11	0.0	6613	5657
102856619			49	5933	288	4.331	0.703	-0.318	0.102	71	83.0	6642	5643
102974775			76	6268	259	3.857	0.975	-0.439	0.193	1	83.0	6613	6372
102785967			61	6445	256	3.595	0.941	-0.315	0.103	1	-83.0	6669	6853
102764809	14.7	14.0	67	6107	281	3.776	0.929	-0.312	0.079	1	-83.0	6630	6067
102994243			48	6377	266	3.958	0.866	-0.311	0.089	1	-83.0	5330	5777
102964827			59	6378	253	3.769	0.951	-0.310	0.101	1	-83.0	6552	6868
102704291			65	6616	258	3.698	0.975	-0.305	0.099	1	-83.0	6562	8048
102929676			38	5553	227	4.508	0.421	-0.304	0.123	1	83.0	6833	7250
102937513		13.3	65	6701	262	3.758	0.948	-0.302	0.117	1	0.0	6596	8528
102715874			69	6572	257	3.750	0.984	-0.301	0.089	1	-83.0	6606	8574
102951397			53	6119	234	4.367	0.615	-0.300	0.091	1	83.0	6747	5312
102854026			57	6134	255	3.485	0.900	-0.298	0.084	1	0.0	6632	6435
102969931			38	5290	209	3.988	0.541	-0.292	0.121	1	0.0	6604	6175
102956354			56	6418	277	3.918	0.800	-0.080	0.087	181	0.0	6587	6246
102701007			57	6381	257	3.578	0.964	-0.289	0.097	1	0.0	6602	6891
102888761			47	6544	246	3.794	0.958	-0.285	0.109	1	0.0	5333	7323
102837287			85	7035	285	3.675	0.982	-0.284	0.109	1	-83.0	6696	9016
102744418			61	6167	272	3.514	0.855	-0.282	0.100	49	-83.0	6645	6363
102851335			62	6331	253	3.689	0.994	-0.282	0.101	1	0.0	6580	6684
102989981			58	6238	265	3.710	0.918	-0.278	0.087	1	-83.0	6580	6092
102845026			55	6399	259	3.618	0.922	-0.275	0.090	1	-83.0	6685	6740
102967947			50	5613	154	4.131	0.669	-0.274	0.094	7	-166.0	6667	6345
102765065			49	6200	250	3.708	0.945	-0.274	0.089	1	0.0	6628	6338
102931343	15.0	14.4	68	6539	271	3.898	0.946	-0.189	0.109	121	-166.0	6582	6484
102968142			57	6193	229	3.747	0.980	-0.266	0.102	1	-83.0	6619	6528

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	<i>v_r</i> [km/s]	Teff CaK [K]	Teff Gband [K]
102822645			58	6101	261	3.637	0.913	-0.265	0.091	1	0.0	6579	6293
102782788			57	6219	256	3.825	0.892	-0.264	0.088	1	0.0	6616	6116
102970471			66	6875	274	3.926	0.859	-0.261	0.108	21	-83.0	6622	7624
102708795			53	6140	257	3.783	0.912	-0.259	0.095	1	0.0	5249	5755
102878554			48	6130	269	3.904	0.896	-0.249	0.093	1	0.0	6587	6064
102941727			49	7320	311	4.058	0.790	-0.240	0.128	1	-83.0	6871	7978
102900220			29	5091	190	3.387	0.513	-0.239	0.104	1	0.0	6827	7216
102730266			57	6430	267	3.642	0.902	-0.233	0.088	1	0.0	5303	6890
102831938			66	6766	261	3.819	0.933	-0.231	0.123	1	0.0	6634	7733
102987618			71	6786	272	3.777	0.944	-0.229	0.121	51	0.0	6657	7742
102856360			49	6194	269	3.864	0.898	-0.228	0.091	1	0.0	6556	5787
102931370			37	6075	284	3.939	0.760	-0.227	0.117	61	83.0	6668	5710
102985441			52	6083	271	3.916	0.799	-0.227	0.118	71	-83.0	6707	5655
102927047			65	6582	267	3.763	0.861	-0.227	0.132	61	0.0	6587	6828
102857945	14.8	14.2	56	6375	271	3.841	0.800	-0.227	0.114	7	0.0	6652	6604
102960010			34	5100	214	4.273	0.424	-0.168	0.121	11	0.0	5344	8813
102732226			48	6196	278	3.598	0.911	-0.224	0.092	1	0.0	6731	6715
102779558	14.1	12.8	41	5463	257	3.362	0.704	-0.221	0.089	1	-83.0	6616	7001
102752732			47	5980	266	3.938	0.841	-0.220	0.087	1	83.0	6585	5691
102753563			41	5772	247	4.309	0.630	-0.220	0.099	1	-166.0	6577	5294
102766103			54	6069	298	3.772	0.664	-0.218	0.085	127	0.0	6741	5710
102734173			65	6641	259	3.696	0.962	-0.217	0.111	21	0.0	6664	6976
102693103			44	5430	225	3.887	0.655	-0.217	0.128	11	-249.0	6597	6779
102734685			83	6666	100	4.500	0.096	-0.215	0.113	113	0.0	6667	7421
102776079			50	5810	265	3.853	0.692	-0.213	0.113	83	-83.0	6596	5651
102952583			64	6793	265	3.706	0.964	-0.211	0.120	1	0.0	6671	8348
102719945			77	6992	271	3.780	0.972	-0.206	0.115	1	0.0	6693	9090
102952297			40	5771	99	4.037	0.179	-0.206	0.102	1	-83.0	6810	5323
102783919			39	5794	258	4.347	0.578	-0.205	0.096	1	0.0	6649	5288
102737662			56	6415	266	3.509	0.938	-0.204	0.094	1	-83.0	5274	7044

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102981619			50	6780	267	3.879	0.859	-0.204	0.121	1	0.0	6607	7516
102918734			39	5357	232	3.221	0.683	-0.201	0.130	1	-166.0	6655	7545
102757362			40	5516	179	3.586	0.661	-0.197	0.113	1	-83.0	5291	6571
102831666			35	5161	214	4.445	0.387	-0.195	0.148	11	-83.0	6686	7103
102729586			61	6545	258	3.699	0.950	-0.194	0.117	1	0.0	6628	7191
102860392			99	7729	358	3.979	0.776	-0.193	0.132	1	-83.0	6910	9021
102753808			44	6044	266	3.944	0.813	-0.192	0.094	1	0.0	6620	5674
102714732			60	6673	260	3.709	0.950	-0.192	0.122	1	-83.0	6676	7218
102908149			33	6003	220	3.614	0.557	0.359	0.125	1	0.0	5333	5629
102804760			47	6229	253	4.077	0.871	-0.182	0.089	1	0.0	6642	5737
102982532			61	6312	241	3.642	0.870	-0.179	0.086	1	0.0	5325	6562
102730084			34	5241	257	3.146	0.659	-0.177	0.115	1	83.0	6637	7218
102719046			52	6342	255	4.045	0.863	-0.176	0.110	1	-83.0	6656	5749
102892378			59	6473	261	3.754	0.948	-0.175	0.084	1	0.0	6645	6494
102747545			73	6786	238	3.935	0.775	-0.172	0.100	1	83.0	6619	7885
102952494			58	6816	266	3.776	0.938	-0.171	0.111	1	-83.0	6696	7608
102835422			68	6783	243	3.776	0.993	-0.166	0.095	1	0.0	6563	7690
102966502			60	6471	274	3.633	0.907	-0.164	0.096	1	-83.0	6612	7423
102962202			62	6606	259	3.896	0.924	-0.316	0.111	1	0.0	5314	7780
102747009	14.4	13.9	53	6131	263	4.169	0.771	-0.156	0.107	1	0.0	6567	5700
102990428			66	7174	297	4.016	0.809	-0.155	0.167	1	-83.0	6771	8904
102840975			36	5363	262	3.272	0.680	-0.151	0.118	1	-83.0	6765	5808
102779502			38	5353	234	3.283	0.674	-0.147	0.122	1	-83.0	6582	6576
102966695			67	6844	266	3.730	0.812	-0.146	0.109	1	-83.0	6648	7779
102710312			51	6615	263	3.764	0.782	-0.144	0.108	1	-83.0	5233	6995
102697735			39	19805	338	2.552	0.228	-0.144	0.646	1	-83.0	6749	5300
102931830			33	5411	189	3.745	0.618	-0.143	0.097	11	-83.0	6639	6326
102983767			49	6297	275	3.693	0.827	-0.143	0.105	21	-83.0	5205	7052
102966503			55	6625	262	3.910	0.770	-0.141	0.103	1	0.0	6646	6666
102819993			58	6463	269	3.756	0.831	-0.140	0.105	111	-83.0	6649	6741

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102880535			61	6638	273	3.988	0.762	-0.140	0.117	31	0.0	6670	6263
102820291			53	6443	267	3.908	0.841	-0.140	0.084	1	0.0	6570	6419
102892155			34	5260	202	4.495	0.345	-0.134	0.140	11	0.0	6558	6958
102923865			55	6308	265	3.993	0.772	-0.133	0.087	31	0.0	6572	6054
102956405			49	6360	288	3.812	0.833	-0.085	0.119	45	83.0	5361	6222
102905545			54	6169	267	4.053	0.775	-0.133	0.107	1	-83.0	6607	5698
102718586			46	6419	277	3.824	0.793	-0.130	0.111	1	-83.0	6591	6262
102844800			41	5786	285	3.970	0.705	-0.129	0.084	1	0.0	6626	5229
102977933			54	6396	279	3.712	0.866	-0.128	0.083	61	0.0	6643	7118
102940348			73	7126	295	3.723	0.932	-0.126	0.127	1	-83.0	6683	8732
102968524			38	5517	182	3.207	0.671	-0.126	0.136	11	-83.0	6630	6391
102897371			59	6361	261	4.034	0.739	-0.125	0.083	61	-83.0	6666	6623
102922787			43	6588	311	4.280	0.610	-0.124	0.094	105	0.0	6646	5792
102982601			70	7050	278	3.855	0.908	-0.123	0.086	1	-83.0	6652	8034
102953286			50	6200	273	3.873	0.838	-0.123	0.089	1	0.0	5272	6065
102954362			52	6326	285	3.924	0.791	-0.120	0.097	81	0.0	6577	6684
102795487			74	6531	259	3.883	0.790	-0.119	0.100	71	-83.0	6585	7414
102962623			125	7921	362	4.276	0.602	-0.119	0.127	191	0.0	6995	9089
102834012			37	5578	255	4.271	0.565	-0.119	0.138	11	0.0	6632	5373
102964949			74	7463	317	4.089	0.793	-0.117	0.131	151	-83.0	6857	8396
102775333			62	6500	262	3.973	0.793	-0.115	0.120	1	0.0	6642	6775
102892180			40	6201	279	4.217	0.691	-0.115	0.090	71	83.0	6722	5606
102814842			58	6317	270	3.800	0.828	-0.115	0.099	1	0.0	6612	6496
102958258			38	5393	164	3.739	0.592	-0.114	0.108	1	-83.0	6809	6004
102968267			38	5597	248	4.004	0.647	-0.114	0.134	1	-83.0	6669	6539
102984537			44	6214	262	3.981	0.841	-0.114	0.088	1	0.0	6599	5776
102838501			88	7824	380	3.833	0.831	-0.114	0.115	51	-83.0	6900	8690
102825983			53	6418	260	3.746	0.840	-0.113	0.090	1	0.0	6623	6190
102941888	13.6	13.1	42	6234	304	3.819	0.687	0.389	0.080	91	0.0	6653	5767
102879661			56	6259	269	3.953	0.835	-0.116	0.076	1	0.0	6560	6403

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102958780			69	6923	280	3.929	0.906	-0.111	0.126	1	0.0	6652	8226
102942410			78	6725	258	3.866	0.933	-0.111	0.097	61	0.0	6619	6402
102976151			38	5692	99	3.884	0.193	-0.110	0.106	5	0.0	6749	5880
102800779			50	6159	265	3.984	0.807	-0.109	0.079	1	-83.0	6605	5744
102991888			42	6349	276	4.061	0.786	-0.107	0.107	1	-83.0	6701	5780
102834803			60	6606	266	3.829	0.796	-0.107	0.085	1	-83.0	6651	6972
102852465	14.5	14.0	60	6739	266	3.852	0.885	-0.106	0.088	1	-83.0	6670	7637
102948983			38	5820	223	4.388	0.519	-0.104	0.107	1	0.0	6720	5260
102758238			63	6990	282	3.759	0.901	-0.104	0.096	1	-83.0	6606	6946
102699387			50	6618	261	3.896	0.802	-0.103	0.103	1	-83.0	6570	6740
102700191			116	8126	381	4.046	0.712	-0.102	0.145	191	0.0	7528	9850
102814045			75	6824	264	3.879	0.912	-0.102	0.100	61	0.0	6647	7159
102723078			57	6255	264	3.996	0.824	-0.101	0.080	1	-83.0	6652	6297
102721887			62	6827	266	3.841	0.874	-0.097	0.091	1	-83.0	6700	8503
102814354			62	6542	278	3.827	0.799	-0.097	0.102	1	0.0	6624	7364
102833097			49	6397	276	3.847	0.857	-0.094	0.090	1	0.0	6621	6547
102698046			31	5319	271	3.016	0.701	-0.093	0.103	3	-83.0	6571	5244
102708811			33	5193	248	3.176	0.631	-0.092	0.112	1	0.0	6675	8345
102960924			53	6434	101	4.278	0.202	-0.091	0.089	23	0.0	6587	6104
102987583			35	5200	168	3.699	0.390	-0.091	0.113	1	-83.0	6803	6114
102757559	15.9	15.1	58	6899	271	3.816	0.940	-0.088	0.101	1	-83.0	6809	7617
102911853			40	5800	238	4.315	0.569	-0.084	0.098	1	0.0	6662	5331
102883594			55	6356	268	3.844	0.835	-0.081	0.091	1	-83.0	6583	6823
102778101			38	5798	266	4.095	0.670	-0.080	0.096	1	-83.0	5278	5715
102725554			46	6205	267	4.027	0.811	-0.080	0.084	1	0.0	6693	5761
102738285			45	6175	276	3.928	0.789	-0.079	0.094	1	-83.0	6624	5677
102706838			70	7012	267	3.864	0.945	-0.079	0.113	1	-83.0	6583	8299
102828854			35	5568	170	4.375	0.390	-0.078	0.107	1	0.0	6601	5289
102815158			35	5385	225	3.450	0.661	-0.077	0.104	1	-83.0	6709	6421
102944331			24	5067	139	3.258	0.500	-0.075	0.127	1	-166.0	7244	5323

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	$v \sin i$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102971910			56	6416	101	4.241	0.216	-0.037	0.090	21	83.0	6615	5768
102982010			41	5668	284	3.419	0.719	-0.072	0.096	1	-83.0	6653	6097
102873331			41	6347	259	4.294	0.663	0.035	0.090	1	0.0	5303	5653
102755568			37	5916	264	4.226	0.698	-0.068	0.097	1	0.0	6628	5659
102715455			49	6331	267	3.692	0.780	-0.068	0.123	1	0.0	6630	7027
102722732			31	5530	217	4.136	0.585	-0.067	0.104	1	0.0	6596	6801
102941594			39	5636	297	3.457	0.721	-0.067	0.117	1	0.0	6622	5320
102852266			74	6940	276	3.894	0.901	-0.066	0.116	1	-83.0	6647	8125
102865733			49	6518	268	4.122	0.764	-0.064	0.077	1	-83.0	6587	6138
102727128			45	5944	272	3.988	0.793	-0.063	0.100	1	0.0	6583	5715
102961779			38	6030	280	4.134	0.714	-0.062	0.093	1	0.0	6861	5652
102869956			37	5489	279	3.470	0.652	-0.062	0.114	1	-83.0	6665	6047
102715356			66	6781	100	4.285	0.296	-0.060	0.080	37	0.0	6615	7914
102819658			43	5714	290	3.908	0.739	-0.053	0.094	1	0.0	6661	5284
102800801			34	5506	92	3.412	0.208	-0.050	0.088	11	0.0	6731	6183
102843871			57	6685	100	4.099	0.267	-0.039	0.086	31	0.0	6661	7190
102777716			53	6563	101	4.475	0.255	-0.037	0.082	31	0.0	6559	6909
102785478			59	6636	270	3.801	0.783	-0.034	0.097	25	0.0	6639	7558
102866258			37	5528	270	3.363	0.790	-0.033	0.102	1	-83.0	6603	5655
102988503			46	6553	100	4.233	0.262	-0.033	0.091	61	0.0	5326	6785
102985556			42	6031	100	4.330	0.199	-0.032	0.094	1	83.0	6622	5618
102935336			131	7218	101	4.724	0.209	-0.031	0.122	191	-83.0	6781	7966
102992057			49	6463	100	4.035	0.245	-0.031	0.106	21	0.0	6574	6425
102799869			34	5343	98	3.693	0.189	-0.030	0.106	1	-83.0	6611	6661
102955611			54	6443	100	3.918	0.266	-0.030	0.095	1	-83.0	6609	6487
102784703			36	5615	102	3.507	0.237	-0.029	0.108	1	-166.0	6608	5748
102833871			51	6146	100	4.371	0.202	-0.027	0.115	41	-83.0	6590	5769
102749983			47	6113	100	4.640	0.203	-0.024	0.085	21	-83.0	6688	5657
102945729			110	8105	128	4.775	0.171	-0.023	0.116	111	-83.0	7517	9238
102769043			43	5995	100	4.474	0.174	-0.021	0.090	31	-83.0	6629	5656

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102942837			56	6837	101	4.415	0.239	-0.021	0.102	61	0.0	6585	6983
102975748			85	7679	102	4.315	0.516	-0.019	0.087	31	-83.0	6762	8848
102700883			50	6324	100	4.103	0.251	-0.018	0.097	1	-83.0	6639	6452
102796098			62	6651	100	4.400	0.249	-0.016	0.097	61	-83.0	6593	6809
102853015	14.1	13.5	65	6945	100	4.322	0.298	-0.016	0.102	41	0.0	6678	8293
102693259			36	5544	100	4.540	0.147	-0.015	0.149	1	-83.0	6623	5780
102855635			89	7602	106	4.787	0.170	-0.015	0.091	51	-83.0	6822	8725
102795051			45	6147	100	4.436	0.208	-0.014	0.093	1	0.0	6600	5746
102739593			44	5931	99	4.432	0.188	-0.012	0.111	11	0.0	6595	5662
102701906			62	6471	239	3.641	0.928	-0.012	0.103	95	-83.0	6632	6947
102754803			43	6267	100	4.309	0.214	-0.011	0.092	41	0.0	5295	6018
102972397			68	7857	101	4.742	0.241	-0.011	0.103	1	-83.0	6871	8565
102920701			56	6796	100	4.254	0.293	-0.008	0.094	1	0.0	6662	7668
102901465			50	6830	101	4.674	0.218	-0.008	0.085	31	0.0	6697	6996
102934301			47	6398	307	3.882	0.757	-0.008	0.098	21	83.0	6585	5765
102738629			42	6338	102	4.577	0.182	-0.006	0.096	1	-166.0	6689	5635
102943538			62	6750	93	3.838	0.287	-0.006	0.102	1	-83.0	6683	7924
102708985			45	6682	101	4.059	0.278	-0.006	0.114	1	0.0	6619	7075
102888910			55	6580	101	4.109	0.278	-0.006	0.091	1	0.0	6659	6980
102866841			63	6841	100	4.362	0.286	-0.006	0.101	61	0.0	5353	7460
102963533			43	5994	99	4.069	0.193	-0.005	0.096	1	-83.0	6609	5711
102975806			31	5289	97	3.264	0.210	-0.005	0.100	1	-83.0	6576	6341
102755399			152	8058	94	4.674	0.260	-0.005	0.105	161	0.0	6959	9157
102712245			41	6083	99	3.482	0.221	-0.005	0.119	81	0.0	5336	6047
102805038			46	5967	104	4.537	0.184	-0.004	0.118	1	-83.0	5355	5669
102843098			39	5944	101	4.635	0.174	-0.004	0.144	1	0.0	6657	5613
102776161			64	6558	100	4.039	0.245	-0.004	0.107	1	0.0	6659	7550
102894912			55	6386	300	3.969	0.782	-0.003	0.083	65	0.0	6606	5793
102724478			46	8253	129	4.701	0.230	-0.010	0.186	1	0.0	7403	8751
102715433			55	6551	101	4.231	0.266	-0.002	0.089	1	0.0	6649	6762

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102974861			54	6584	99	3.715	0.297	-0.001	0.104	1	0.0	6717	7614
102985594			85	7210	102	4.583	0.290	-0.001	0.105	1	0.0	6670	8284
102982293			95	7107	102	4.741	0.198	-0.000	0.091	91	0.0	6798	7962
102957037			51	6791	106	4.534	0.226	0.001	0.109	1	-83.0	6732	6696
102702065			53	6879	101	4.294	0.290	0.001	0.086	1	-83.0	6626	7440
102707586			50	6498	110	4.330	0.287	0.004	0.095	1	0.0	6630	6718
102816710			42	6061	100	4.478	0.179	0.004	0.130	1	0.0	6667	5389
102965514			71	6929	100	4.202	0.244	0.004	0.099	1	0.0	6659	8353
102749845			48	6612	101	4.441	0.265	0.005	0.087	1	0.0	6560	6581
102973880			50	6466	108	4.152	0.252	0.006	0.082	1	0.0	6630	6136
102831873			41	6268	101	4.535	0.196	0.006	0.092	1	0.0	6626	5696
102979610			63	6966	101	4.578	0.251	0.007	0.093	1	0.0	6699	8290
102834456			50	6413	100	4.581	0.194	0.008	0.106	61	-83.0	6610	6339
102961932			60	6763	100	4.216	0.316	0.008	0.083	1	0.0	6606	7706
102777260			46	6290	100	4.288	0.111	0.008	0.094	1	-83.0	6561	6099
102838648			68	6500	211	3.756	0.836	0.008	0.092	93	0.0	6610	7038
102798121			34	5738	99	3.863	0.221	0.009	0.104	1	-83.0	6610	5262
102830245			40	5962	101	4.166	0.182	0.009	0.093	1	0.0	6797	5359
102748696			102	7875	103	3.902	0.480	0.009	0.110	1	-83.0	6883	9007
102726610			47	6605	101	4.660	0.182	0.012	0.090	1	0.0	6644	6157
102775438			46	6303	100	4.178	0.233	0.013	0.087	131	0.0	5313	6392
102876526			51	6562	101	4.341	0.280	0.014	0.088	1	0.0	6590	7237
102931792			68	7013	100	4.297	0.338	0.015	0.086	1	0.0	6681	7750
102757675		15.3	42	6482	100	4.151	0.271	0.015	0.088	111	-83.0	5213	6969
102819656			66	6801	101	4.383	0.296	0.017	0.106	1	-83.0	6633	7719
102887956			38	5746	103	3.901	0.202	0.017	0.103	1	-83.0	6873	5398
102754174			57	6534	101	4.258	0.293	0.021	0.075	1	-83.0	6651	7129
102974495			42	6443	100	4.209	0.254	0.022	0.090	1	83.0	6682	6285
102801540			31	5413	101	3.366	0.224	0.023	0.107	1	-83.0	5349	5944
102857057			54	6224	288	4.139	0.689	0.025	0.098	133	-83.0	6615	5647

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102741647			55	6557	100	3.979	0.265	0.030	0.091	1	-83.0	6675	7241
102966572			47	6430	100	4.071	0.262	0.030	0.078	1	-83.0	6592	6131
102711792	12.1	11.5	54	6488	100	4.247	0.235	0.031	0.071	111	0.0	5370	6278
102802962			89	7537	99	4.713	0.137	0.031	0.082	1	0.0	6879	8613
102817394			42	5969	105	4.522	0.173	0.032	0.089	1	-83.0	6636	5681
102720345			61	6339	290	4.105	0.732	0.034	0.082	119	-83.0	6584	6087
102986341			43	6290	100	3.823	0.252	0.034	0.086	1	-83.0	5332	5778
102755168			65	6714	100	4.346	0.237	0.034	0.072	71	0.0	6622	7363
102816931			52	6831	100	4.168	0.352	0.035	0.105	1	0.0	6677	7922
102753124			58	6622	101	4.435	0.242	0.035	0.072	21	-83.0	6656	6842
102802562			29	5396	97	3.812	0.191	0.036	0.106	1	-83.0	6601	6229
102756249	16.3	15.4	47	6665	112	4.379	0.203	0.037	0.110	1	-166.0	6584	6420
102697885	15.0	14.4	42	6977	100	4.411	0.284	0.038	0.141	1	0.0	5346	8590
102701516			39	5700	101	4.269	0.192	0.041	0.147	1	-166.0	6778	5345
102742598			45	6175	100	4.313	0.208	0.044	0.097	1	0.0	6620	6057
102726902			41	6217	100	3.748	0.271	0.044	0.084	1	0.0	6565	6201
102693593			38	5916	99	4.225	0.207	0.047	0.107	1	-83.0	6589	5733
102722592			32	5395	192	3.856	0.540	0.049	0.100	11	0.0	6729	7592
102941023			46	6427	324	4.046	0.718	0.289	0.123	1	-166.0	6811	6241
102766152			39	5635	98	4.076	0.173	0.055	0.129	7	-83.0	6718	5285
102971417	13.2	12.7	54	6827	285	3.878	0.757	0.278	0.102	1	0.0	5270	7886
102987975			32	5601	264	4.201	0.532	0.061	0.114	11	0.0	6663	5268
102711032			54	6686	274	3.814	0.863	0.061	0.091	1	-83.0	6598	6886
102941705			80	17620	1932	2.364	0.375	0.062	0.211	21	-249.0	6948	5608
102762532			57	6769	273	3.903	0.846	0.068	0.092	1	0.0	6727	6851
102843065			71	7125	279	3.793	0.878	0.068	0.082	21	0.0	6699	8862
102709905			45	6592	281	3.784	0.860	0.068	0.115	1	0.0	5316	6798
102975777			42	6448	267	3.986	0.742	0.069	0.107	51	0.0	5304	5753
102851139			65	7036	101	4.438	0.284	0.069	0.092	85	0.0	6683	8251
102732701			114	10365	588	4.095	0.314	0.070	0.334	181	-83.0	8050	9973

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102748866			48	6578	275	3.789	0.854	0.072	0.106	1	-83.0	6573	7347
102811940			65	7131	279	4.063	0.807	0.073	0.092	1	0.0	6677	8531
102965600			31	5212	220	3.009	0.562	0.074	0.118	11	0.0	6732	7002
102874492			61	7117	277	3.834	0.894	0.075	0.078	61	0.0	6630	7868
102696694			37	5452	195	3.844	0.343	0.076	0.116	1	0.0	6625	6563
102863264			36	5548	282	3.406	0.670	0.079	0.119	1	0.0	6702	5981
102695048			30	5219	115	2.507	0.382	0.079	0.128	1	0.0	5362	6480
102819553			33	5721	242	3.599	0.645	0.080	0.104	11	-83.0	6656	6243
102849154			62	6723	268	3.850	0.830	0.080	0.090	31	0.0	6627	7266
102985911			56	6813	283	3.897	0.851	0.082	0.085	31	0.0	6649	7564
102937824			47	6449	280	3.986	0.788	0.082	0.077	1	0.0	6619	5756
102981524			62	7125	316	4.160	0.692	0.082	0.080	81	0.0	6825	7579
102843917			54	6607	292	3.818	0.836	0.084	0.091	101	-83.0	5370	6752
102861088			69	6821	282	4.000	0.778	0.084	0.092	171	-83.0	6624	7081
102757055			62	6504	99	4.167	0.229	0.085	0.095	173	0.0	6623	6657
102862393			70	7494	304	4.123	0.741	0.085	0.086	51	0.0	6833	8310
102709644			80	7196	282	4.066	0.775	0.089	0.082	101	-83.0	6704	8226
102803007			90	7698	329	4.293	0.662	0.090	0.122	181	-83.0	6949	8319
102899146			35	5511	221	3.352	0.662	0.090	0.128	1	0.0	6686	5704
102818523			37	5651	273	3.195	0.677	0.090	0.104	1	-83.0	6606	5321
102722486			56	7056	277	3.794	0.868	0.090	0.098	41	-83.0	6657	8579
102700160			37	5882	273	4.092	0.636	0.091	0.149	11	0.0	6723	5656
102919173			106	7590	312	4.061	0.839	0.091	0.086	151	0.0	6867	8940
102791015			50	6501	271	3.860	0.787	0.095	0.083	1	0.0	6667	7354
102770262			54	6090	291	3.893	0.788	0.096	0.100	121	83.0	6571	5715
102986569			30	5172	100	2.432	0.317	0.096	0.133	1	-166.0	6627	6455
102791785	16.0	15.2	44	6577	278	4.101	0.741	0.097	0.093	1	-83.0	6571	6519
102934839			73	7283	292	4.034	0.799	0.100	0.089	111	0.0	6768	8787
102991807			33	5470	178	3.692	0.529	0.101	0.095	1	-83.0	6846	5811
102986584			49	6767	321	3.991	0.769	0.102	0.078	105	-83.0	5344	7408

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	M/H [dex]	Δ M/H [dex]	<i>v</i> sin <i>i</i> [km/s]	<i>v_r</i> [km/s]	Teff CaK [K]	Teff Gband [K]
102759758			87	8304	423	4.180	0.102	0.091	1	0.0	6987	9722
102909951			43	6709	319	4.089	0.102	0.116	57	83.0	6778	6861
102697728			41	6895	274	3.854	0.104	0.102	101	0.0	5346	6893
102873482			36	5454	173	3.857	-0.169	0.107	1	-83.0	6699	6326
102774004			34	5488	233	3.621	0.106	0.101	1	0.0	6634	6873
102860248			34	5322	140	3.692	0.107	0.160	1	0.0	6696	6817
102712617			42	6415	284	3.741	0.107	0.124	1	-83.0	5210	6334
102912413	13.7	13.2	54	9084	4703	3.687	0.867	0.168	1	0.0	6721	7694
102835492			84	7801	348	3.997	0.762	0.111	181	-83.0	6968	8748
102933757			38	5821	205	4.065	0.112	0.101	1	-83.0	6854	5609
102985772			33	5402	270	3.127	0.647	0.113	1	-83.0	6633	6566
102735881	15.2	14.6	53	6722	274	3.876	0.861	0.113	1	-83.0	6616	7168
102876702			40	6065	283	4.215	0.629	0.116	1	0.0	6641	5600
102713583			41	5933	288	3.975	0.725	0.135	1	-83.0	6595	5645
102750013			61	6746	284	3.959	0.816	0.118	1	-83.0	6627	7381
102701235			50	6674	267	3.940	0.855	0.102	1	0.0	6584	6753
102942605			86	7850	342	4.129	0.746	0.119	1	-83.0	6879	8593
102958049			40	5750	242	3.849	0.668	0.120	1	-83.0	6639	5255
102990169			37	5620	282	3.204	0.719	0.200	1	0.0	5277	5601
102906262			32	5205	161	3.532	0.484	0.122	7	-83.0	6783	6331
102814086			34	5732	311	3.432	0.712	0.123	1	-83.0	6703	5398
102728598			36	5832	245	4.295	0.538	0.124	1	0.0	6651	5613
102926080			37	5737	247	3.521	0.737	0.126	1	-83.0	6651	5617
102966433			38	5951	288	4.128	0.640	0.126	9	0.0	5371	5641
102969294			33	5399	266	3.579	0.637	0.126	1	0.0	6571	6238
102887394			34	5548	183	3.690	0.549	0.128	1	0.0	6790	5546
102747044			37	5565	234	3.411	0.663	0.131	11	0.0	6654	5315
102769766			91	7630	319	4.020	0.816	0.132	191	0.0	6878	8426
102884806			58	7226	268	3.982	0.870	0.135	1	-83.0	6675	7831
102765887			28	5098	205	3.176	0.592	0.135	1	-83.0	6814	6773

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102959390			39	6003	280	4.270	0.595	0.136	0.125	1	0.0	6603	5378
102834301			53	6631	294	3.968	0.867	0.136	0.086	111	83.0	6627	6399
102933436			34	5499	233	3.575	0.674	0.136	0.099	1	0.0	6581	6479
102900794			37	5597	175	4.116	0.457	0.142	0.094	11	-83.0	7094	5289
102834544			49	6567	276	3.802	0.908	0.143	0.092	1	-83.0	6602	6391
102988803			38	6549	288	3.892	0.777	0.145	0.119	1	0.0	5227	6282
102814705			32	5536	272	3.758	0.664	0.146	0.132	11	-83.0	5259	8204
102794878			42	6069	293	3.808	0.743	0.146	0.107	1	-83.0	6697	5712
102724258			31	5212	159	3.372	0.644	0.148	0.132	3	0.0	6828	6504
102911770			35	5680	234	3.414	0.670	0.149	0.096	11	-83.0	6646	5633
102955100			36	5499	146	3.250	0.592	0.153	0.108	11	-83.0	6604	5350
102702510			31	5351	210	3.152	0.641	0.157	0.104	1	-83.0	5241	5290
102906463			33	5620	222	3.551	0.666	0.160	0.098	1	-83.0	6824	5643
102695744			52	6803	277	3.774	0.845	0.160	0.100	1	-83.0	6652	7853
102963500			33	5546	266	3.533	0.654	0.161	0.119	1	0.0	6673	6464
102881371			34	5529	178	3.574	0.633	0.162	0.090	11	-83.0	5302	6138
102881243			81	7932	367	4.248	0.601	0.166	0.090	1	0.0	6930	9025
102715048			34	6227	310	3.923	0.725	0.166	0.119	1	0.0	6604	5775
102725728			41	6269	284	3.978	0.741	0.166	0.109	31	0.0	6570	5770
102919813		12.7	64	7451	298	4.099	0.765	0.166	0.090	31	0.0	6700	8555
102964142		12.3	40	5724	264	3.991	0.660	0.169	0.148	5	-83.0	6828	5368
102717804			58	6932	276	3.827	0.858	0.172	0.101	71	0.0	6654	7900
102970554			68	7646	327	4.170	0.767	0.173	0.098	1	0.0	6893	8638
102801709			63	6306	289	3.947	0.776	0.174	0.087	161	0.0	6591	6160
102960769			34	5341	131	3.422	0.598	0.176	0.126	1	0.0	6606	6088
102768803			39	5581	192	3.884	0.558	0.180	0.090	11	-83.0	6770	5987
102821258			63	7647	306	4.198	0.724	0.180	0.101	61	0.0	6852	8343
102765071			46	6448	293	3.824	0.892	0.180	0.102	37	-83.0	6691	6592
102732149			115	9017	407	3.579	0.374	0.180	0.114	71	0.0	7706	10125
102861093			61	6684	276	3.917	0.811	0.181	0.063	111	-83.0	6705	7256

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>v</i> sin <i>i</i> [km/s]	<i>v_r</i> [km/s]	Teff CaK [K]	Teff Gband [K]
102736025			88	7773	343	3.917	0.795	0.182	0.080	111	-83.0	6865	8965
102882551			62	7420	290	4.078	0.834	0.184	0.097	1	-83.0	6747	8661
102959349			48	6630	295	3.801	0.833	0.184	0.100	41	0.0	6615	6831
102713979			53	17603	1653	2.085	0.098	0.184	0.416	3	-83.0	6948	5286
102803575			29	5194	100	3.110	0.441	0.186	0.099	1	0.0	6578	6531
102724547			61	6506	289	3.931	0.800	0.189	0.114	131	-83.0	5244	6660
102978436			54	6861	100	4.385	0.246	0.190	0.092	23	0.0	6682	6431
102967529			40	5786	296	3.763	0.658	0.190	0.091	1	0.0	6825	5208
102839232	13.8	13.3	78	7626	303	4.012	0.857	0.190	0.074	31	-83.0	6831	8579
102779568	13.9	13.3	47	6382	285	3.921	0.838	0.192	0.085	119	0.0	6733	6650
102910078			49	6663	281	3.770	0.876	0.193	0.095	1	-83.0	5306	6529
102825956			75	8650	502	4.494	0.431	0.193	0.092	1	-166.0	7677	9128
102992240			55	6835	306	3.948	0.782	0.195	0.101	123	83.0	6633	7332
102793421			62	6659	290	3.820	0.819	0.195	0.119	61	0.0	5265	7365
102979423			83	7574	320	4.083	0.672	0.196	0.084	111	0.0	6849	8961
102798487			31	5357	207	3.369	0.634	0.197	0.130	1	-83.0	6589	6004
102695469			37	5450	191	3.265	0.668	0.197	0.141	11	0.0	6633	6874
102708176			43	7731	3696	3.402	1.090	0.198	0.130	141	0.0	6609	7492
102989205			46	6613	101	4.784	0.161	0.199	0.075	13	0.0	6661	5742
102963465			103	7838	331	4.339	0.601	0.105	0.090	91	0.0	6958	9106
102749942	16.0	15.2	47	6321	304	4.028	0.719	0.200	0.105	1	-83.0	6685	6230
102697947			64	7667	308	4.322	0.631	0.201	0.106	1	0.0	6822	7980
102959042			44	6584	340	3.980	0.832	0.323	0.090	1	-166.0	6616	5618
102821476			31	5208	159	3.464	0.578	0.203	0.102	7	0.0	6803	5866
102857120			107	7709	343	4.125	0.799	0.203	0.100	191	0.0	6923	9273
102932916			49	6570	290	3.807	0.812	0.204	0.094	1	0.0	6560	6770
102859221			68	7550	297	4.162	0.777	0.204	0.086	51	0.0	6800	8569
102692630			56	7360	293	4.129	0.749	0.205	0.104	1	-83.0	6737	8468
102716817			73	7854	337	3.915	0.783	0.205	0.099	1	-83.0	6832	8967
102865673			81	7108	288	3.990	0.789	0.205	0.114	111	0.0	6704	8185

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102840050			124	8161	351	3.999	0.680	0.206	0.086	111	-83.0	6895	8764
102846199			94	7721	329	4.011	0.804	0.210	0.075	191	-83.0	6896	8905
102890199			37	6080	222	3.929	0.663	0.211	0.102	1	0.0	5341	5617
102926805			49	6746	296	4.084	0.758	0.211	0.095	1	-83.0	6706	6408
102864985			31	5505	264	3.560	0.591	0.212	0.129	1	-83.0	6595	5287
102872727			33	5573	247	3.457	0.671	0.215	0.096	1	-83.0	6596	5239
102924532			59	6745	277	4.031	0.778	0.215	0.085	101	-83.0	6634	6823
102721819			32	5631	237	4.492	0.406	0.215	0.161	1	0.0	5374	6448
102971428			48	6475	295	3.847	0.836	0.216	0.073	81	-83.0	10184	13509
102804847			35	5979	295	4.046	0.689	0.217	0.102	1	0.0	6642	5674
102814809			95	7750	312	4.069	0.804	0.218	0.091	111	-83.0	6855	8425
102887017	14.6	13.8	48	5849	267	3.845	0.613	0.094	0.118	47	0.0	6597	5357
102757866			31	5064	147	2.779	0.519	0.219	0.134	1	0.0	6782	6810
102807927			26	5172	201	3.291	0.551	0.222	0.111	1	0.0	6597	7164
102721134			47	6940	279	3.893	0.855	0.223	0.123	1	-83.0	6584	7523
102988546			44	6176	296	3.882	0.763	0.223	0.108	1	0.0	5341	5724
102976487			47	6456	301	3.724	0.812	0.225	0.075	91	-83.0	5243	6494
102942816			46	7235	276	3.922	0.883	0.225	0.127	1	0.0	6748	8434
102870298			33	5553	169	3.755	0.618	0.226	0.135	1	-83.0	6583	7107
102864670			32	5662	233	3.211	0.672	0.228	0.128	1	0.0	6634	5810
102700263			40	6662	328	4.053	0.670	0.228	0.088	69	-83.0	5315	6838
102932120			33	5257	117	2.765	0.488	0.229	0.138	3	-83.0	6590	6029
102991179			51	7838	325	4.320	0.676	0.230	0.128	1	-83.0	6856	8258
102841234			89	8141	366	4.057	0.671	0.230	0.090	1	0.0	6905	8743
102914104			57	6582	286	4.134	0.794	0.232	0.089	1	-83.0	6588	5768
102770872			64	6969	280	3.875	0.851	0.232	0.122	1	-83.0	6646	8371
102810438			57	7291	287	4.146	0.645	0.232	0.094	1	-83.0	6661	7570
102838157			32	5487	236	3.451	0.671	0.234	0.119	1	-83.0	6603	5979
102875746			70	6613	299	4.016	0.739	0.234	0.077	191	-83.0	-23484	6967
102889617			42	6974	283	4.018	0.761	0.242	0.117	1	0.0	6727	9168

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102757762			37	5846	296	3.774	0.663	0.243	0.117	1	-83.0	6627	5609
102811898			51	7428	276	4.159	0.756	0.245	0.097	11	0.0	6672	8837
102856147			46	6582	284	3.944	0.790	0.250	0.104	1	-83.0	6650	6729
102976475			37	5213	183	2.806	0.562	0.253	0.101	9	0.0	6737	5898
102864720			32	5269	120	3.224	0.604	0.256	0.138	11	-83.0	6652	5925
102858903			24	5114	186	3.225	0.557	0.259	0.113	1	-83.0	6629	5548
102754292			25	5118	100	2.904	0.251	0.259	0.117	1	-83.0	5276	5507
102950375	13.9	12.7	45	13139	4055	3.262	1.069	0.322	0.433	1	-332.0	6786	6445
102865520	14.6	13.8	35	5927	219	4.484	0.426	0.262	0.128	11	-83.0	6701	6267
102832044			42	6495	288	4.208	0.715	0.267	0.097	27	0.0	6645	5784
102737063			33	5550	235	3.196	0.668	0.267	0.114	11	0.0	6596	5259
102753979			48	6296	297	3.948	0.756	0.269	0.104	71	0.0	6577	6112
102935561			52	6232	100	3.963	0.208	0.006	0.121	1	-83.0	5374	6187
102898040			61	7968	358	4.489	0.482	0.276	0.096	23	0.0	7024	8170
102920139			47	7635	312	4.123	0.747	0.277	0.132	1	0.0	6797	9490
102846311			85	7950	350	4.125	0.714	0.278	0.079	111	0.0	6964	9337
102967865			49	6406	312	3.998	0.751	0.279	0.110	121	-83.0	6630	6143
102745268			33	6002	286	4.032	0.652	0.279	0.127	1	0.0	6685	5663
102974136			32	5423	212	3.167	0.614	0.279	0.108	1	0.0	6622	6392
102937155			33	6481	317	3.899	0.780	0.280	0.138	1	0.0	6704	6331
102925140			30	5501	247	3.556	0.566	0.280	0.108	1	-83.0	6748	6687
102886503			50	9325	3863	3.258	1.099	0.759	0.168	1	-83.0	6666	6984
102921320			37	6007	246	4.238	0.600	0.284	0.129	141	0.0	6621	5618
102738424			65	7658	318	3.977	0.825	0.285	0.107	21	-83.0	6808	8333
102937535			27	5318	179	3.070	0.617	0.286	0.116	1	0.0	6836	5714
102743762			39	6555	294	3.900	0.768	0.288	0.115	15	0.0	6623	6675
102866942			74	7107	287	3.874	0.814	0.289	0.119	51	0.0	6652	7861
102943712			50	6587	290	4.075	0.750	0.289	0.101	111	-83.0	6740	6297
102977315			46	6505	300	3.988	0.762	0.294	0.072	111	-83.0	6726	6324
10275241			50	6432	297	4.337	0.669	0.295	0.119	25	-83.0	6739	5677

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	<i>v_r</i> [km/s]	Teff CaK [K]	Teff Gband [K]
102756948	13.4	12.1	30	5364	210	3.417	0.604	0.296	0.129	1	0.0	6607	7272
102906686			33	5566	223	3.460	0.647	0.297	0.117	1	0.0	6666	5877
102825084			38	6246	219	4.192	0.574	0.297	0.131	1	0.0	6576	5653
102751447			33	5836	263	4.296	0.538	0.298	0.131	5	-83.0	6679	5258
102873723			33	5660	252	4.271	0.477	0.298	0.129	1	83.0	6721	6242
102882276			49	6371	304	3.876	0.740	0.299	0.106	151	0.0	6594	6091
102793755			29	5331	163	3.210	0.622	0.300	0.167	1	-83.0	6635	5613
102856741	14.2	13.7	78	7508	306	4.033	0.855	0.301	0.081	121	-83.0	6836	9407
102736344			37	5485	211	3.184	0.605	0.301	0.158	1	-83.0	6811	6671
102778138			31	5463	210	3.215	0.623	0.301	0.134	1	0.0	6633	6687
102825927			54	6265	301	3.907	0.743	0.302	0.101	151	-166.0	6635	5779
102986263			62	7921	359	4.302	0.637	0.302	0.106	1	0.0	6994	8718
102983922			75	6190	296	3.615	0.900	-0.303	0.085	81	0.0	6620	6502
102843470			47	6543	298	3.996	0.759	0.303	0.079	101	0.0	6604	6517
102979424			41	7422	250	4.287	0.601	0.303	0.131	1	83.0	6665	7164
102738103			64	7930	334	4.059	0.766	0.304	0.107	161	0.0	6852	8345
102984315			38	5321	103	3.304	0.201	-0.141	0.094	3	0.0	6643	6661
102909473			56	6720	311	4.118	0.677	0.305	0.070	139	-83.0	6570	6795
102736235			31	5470	234	3.355	0.638	0.305	0.145	1	-166.0	6578	6023
102744169			47	6530	300	4.140	0.725	0.306	0.071	91	-83.0	6738	6267
102775979			28	5394	218	4.313	0.392	0.307	0.139	1	0.0	6593	6535
102932146	13.6	13.1	93	6560	267	3.721	0.918	-0.389	0.174	51	0.0	5362	7445
102821853			52	7046	289	4.074	0.779	0.308	0.077	83	0.0	5224	8011
102717069			42	6693	288	3.808	0.785	0.308	0.117	21	-83.0	6597	7183
102695575			46	6426	278	3.655	0.784	0.309	0.141	1	-83.0	5225	6704
102874177			26	5346	149	3.765	0.515	0.310	0.104	1	0.0	6599	6660
102990642			30	5266	210	3.652	0.554	0.311	0.126	1	83.0	6728	8163
102768747	12.4	11.7	49	6201	283	4.108	0.637	0.312	0.102	91	-83.0	6611	5685
102878430	13.5	12.3	29	5271	192	3.041	0.585	0.077	0.096	1	0.0	6559	7944
102697754			47	6242	322	3.776	0.699	0.312	0.114	163	0.0	6657	5797

Table B.1. continued.

ColD	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102825981			30	5310	162	2.514	0.380	0.312	0.115	1	-83.0	6640	6105
102725985			47	6599	312	3.912	0.751	0.313	0.080	115	-83.0	6602	6599
102984686			39	5922	250	3.865	0.655	0.314	0.139	1	-83.0	6732	9777
102740661			52	6383	297	4.030	0.733	0.317	0.105	1	-83.0	6625	5775
102829566			31	5550	137	3.732	0.470	0.319	0.120	1	0.0	6819	6949
102991630			56	6644	289	3.926	0.781	0.319	0.095	111	0.0	6625	8085
102824385			52	7651	315	4.089	0.792	0.319	0.111	1	-83.0	6767	7906
102859944	13.9	13.3	52	6875	290	4.073	0.745	0.320	0.074	141	0.0	6627	7234
102834720			30	5234	155	3.140	0.615	0.322	0.105	1	0.0	6660	6925
102953671	12.7	11.8	36	5494	230	3.622	0.654	0.081	0.096	1	0.0	5320	5408
102761677			43	7071	287	4.033	0.811	0.327	0.108	1	0.0	5362	7530
102805273			34	5755	242	3.505	0.687	0.331	0.094	3	-83.0	6653	5290
102936925			65	15180	3959	2.988	1.064	0.336	0.386	1	0.0	6901	5235
102904628	13.9	12.8	24	5204	211	3.801	0.443	0.337	0.138	11	-83.0	6602	7371
102764615	16.0	15.2	45	6275	304	4.031	0.720	0.338	0.102	111	-83.0	5296	6094
102868561			29	5345	119	3.092	0.540	0.338	0.125	11	0.0	6589	7470
102905588			33	5793	291	3.997	0.617	0.339	0.113	1	0.0	6553	5206
102808763			26	5070	119	3.018	0.534	0.354	0.125	1	-83.0	6619	5744
102967583			44	7249	316	4.374	0.500	0.355	0.108	1	-83.0	7278	6592
102708543			32	5379	187	3.405	0.604	0.355	0.121	9	0.0	6630	6492
102931668			35	5934	303	3.880	0.670	0.357	0.116	1	-83.0	6593	5659
102944443	14.8	13.8	48	5715	188	4.041	0.445	0.117	0.120	11	0.0	6631	6144
102742292			36	5582	160	3.591	0.582	0.359	0.107	11	0.0	6624	6490
102840550			54	6288	327	4.089	0.667	0.360	0.092	191	-83.0	6590	5671
102928393			34	5578	276	3.411	0.710	-0.212	0.125	1	0.0	6648	5531
102834237		13.4	30	5749	243	3.656	0.630	0.362	0.111	1	-83.0	6747	5557
102802783			38	13390	4304	3.302	1.085	0.363	0.582	1	-83.0	6741	5610
102929120			35	8041	4267	3.356	1.070	0.364	0.243	121	0.0	6551	8515
102733723			45	6725	315	4.319	0.557	0.364	0.090	1	0.0	6821	5748
102939762	13.2	12.1	30	5380	121	3.125	0.599	0.305	0.139	3	0.0	5266	7342

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102961164			34	5989	267	3.179	0.617	0.366	0.115	23	-83.0	6571	5395
102734442			38	6162	282	4.219	0.585	0.367	0.100	91	-83.0	6662	5703
102800875			78	7662	299	4.154	0.744	0.367	0.095	141	0.0	6811	8678
102865704			53	6356	302	3.992	0.705	0.370	0.091	181	-83.0	6697	5785
102719409			69	17968	1658	2.288	0.322	0.372	0.161	31	-83.0	6901	5671
102727031			30	5301	115	2.633	0.437	0.373	0.144	1	-83.0	6565	5320
102838784			36	5462	234	3.255	0.635	0.375	0.104	11	0.0	6619	5466
102846538			24	5298	130	3.570	0.398	0.375	0.111	1	0.0	6640	7171
102716721			39	6053	302	3.547	0.712	0.375	0.097	101	-83.0	6671	5779
102709874			36	5653	195	3.727	0.614	0.375	0.105	1	0.0	6718	5238
102934240			37	6373	304	3.994	0.711	0.376	0.086	1	0.0	6582	5775
102753579			29	5243	154	3.370	0.590	0.379	0.100	1	0.0	6795	6856
102848662	14.2	12.8	30	5262	149	3.319	0.595	0.380	0.112	11	0.0	6567	7453
102926798			49	6646	292	3.988	0.789	0.381	0.075	21	-83.0	6612	6558
102990819			35	5927	209	4.412	0.619	0.382	0.095	45	-83.0	6742	5833
102831821			31	5659	224	3.430	0.618	0.386	0.103	1	0.0	6584	6312
102731020			30	5828	277	4.004	0.602	0.388	0.087	11	0.0	6723	5603
102914217			36	6463	291	3.964	0.764	0.389	0.087	21	0.0	5345	5797
102715278			37	7830	4446	3.335	1.070	0.392	0.151	1	0.0	6670	5606
102876154			26	5454	204	3.149	0.609	0.394	0.086	1	-83.0	6585	5361
102827763			30	5567	126	3.320	0.618	0.394	0.087	3	-83.0	6636	5264
102947014			54	13974	4058	3.299	1.066	0.397	0.605	1	-83.0	6941	5621
102708096			30	5468	169	3.605	0.574	0.398	0.078	1	0.0	6764	6798
102945011			47	6908	285	4.015	0.785	0.399	0.119	77	0.0	6582	7325
102839598			28	5359	199	3.587	0.550	0.400	0.097	1	0.0	6609	6890
102692734			32	6505	310	3.699	0.751	0.401	0.088	1	-83.0	6668	6081
102871063			28	5341	177	3.293	0.585	0.407	0.088	1	0.0	6620	5304
102875066			35	13131	4237	3.278	1.095	0.198	0.284	3	-166.0	6694	7224
102988505			39	6061	268	3.921	0.537	0.416	0.076	191	0.0	6631	5699
102818820			24	5102	122	3.361	0.441	0.419	0.088	1	0.0	6746	7970

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102729795			76	8140	353	4.335	0.587	0.419	0.073	1	0.0	6909	8912
102961412			45	6557	306	3.967	0.775	0.423	0.069	131	-83.0	6602	6505
102763966	15.4	14.6	37	5994	283	4.002	0.620	0.431	0.077	1	-83.0	6666	5706
102872137			28	5725	223	4.307	0.431	0.435	0.082	1	0.0	5286	5237
102915131			59	6811	311	4.002	0.730	0.438	0.068	191	0.0	6680	7325
102860096			31	5560	217	3.334	0.642	0.441	0.074	1	-83.0	6621	6158
102969618			62	6610	298	4.287	0.652	0.442	0.071	133	-83.0	6897	5747
102886299			25	5258	155	3.461	0.565	0.445	0.088	1	0.0	6553	6552
102945430			59	6425	262	3.719	0.946	-0.169	0.079	1	0.0	6564	7143
102737952			30	5607	147	3.165	0.613	0.450	0.079	1	-83.0	5325	5682
102761584			43	6270	306	3.919	0.668	0.453	0.088	1	0.0	5317	7049
102855038			66	8003	342	4.264	0.610	0.453	0.079	51	0.0	6832	8847
102709114			48	6522	312	3.939	0.771	0.462	0.087	191	0.0	6557	6828
102695992			57	6754	325	4.000	0.719	0.464	0.096	171	0.0	5288	6734
102839070			26	5240	135	3.236	0.600	0.470	0.098	1	0.0	6655	7144
102820035			30	5545	178	3.533	0.543	0.472	0.101	1	-83.0	6643	6941
102742177			48	7440	295	3.941	0.846	0.474	0.098	1	-249.0	6867	9060
102741728			35	6931	308	4.149	0.671	0.476	0.102	1	-83.0	6862	6892
102820936			43	6671	298	4.269	0.638	0.476	0.096	1	-83.0	6710	5701
102941435			145	13588	2351	3.881	0.527	0.480	0.105	1	-83.0	8186	10056
102890815			59	8372	382	4.337	0.526	0.481	0.099	1	0.0	6887	8402
102765337			62	7069	303	4.040	0.737	0.489	0.096	171	-83.0	6689	8336
102835597			70	8024	361	4.383	0.571	0.495	0.102	51	-83.0	6911	7199
102695652		15.1	32	11787	4571	3.355	1.075	0.498	0.433	1	-83.0	7818	8784
102874709			41	5991	298	3.928	0.618	0.500	0.111	161	-83.0	5322	5697
102747042			58	8226	374	4.455	0.498	0.501	0.110	1	-83.0	2131	-4736
102988023			41	6701	313	3.945	0.739	0.506	0.112	151	0.0	5395	6949
102775946			24	5443	213	3.631	0.502	0.507	0.107	1	-83.0	6806	6083
102764392			40	7658	298	4.248	0.747	0.507	0.114	1	-83.0	6838	7961
102805486			26	5357	151	3.334	0.596	0.508	0.113	1	-83.0	6701	5609

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102860692			30	5460	119	3.365	0.316	0.508	0.115	1	-83.0	6638	5350
102877649			22	8745	4843	3.422	1.089	0.770	0.226	1	0.0	6667	6454
102966717			48	7114	292	4.167	0.683	0.513	0.114	1	-83.0	6696	7436
102719194			75	10862	772	4.240	0.334	0.520	0.124	1	-83.0	8307	9687
102992577			78	7475	297	4.144	0.898	0.521	0.118	141	-83.0	6855	7720
102775439			24	5347	192	3.515	0.560	0.525	0.120	1	0.0	6594	7107
102955078			57	6521	306	4.032	0.718	0.527	0.119	131	-83.0	6754	6673
102913330			53	6549	313	4.007	0.745	0.527	0.120	161	0.0	6632	6734
102694923			76	8253	381	4.436	0.528	0.529	0.121	181	0.0	7101	8763
102935938			44	6804	309	4.074	0.688	0.530	0.120	181	0.0	5310	6605
102719055			52	7669	3520	3.386	1.089	0.535	0.122	169	0.0	6716	6753
102698053			30	5492	216	2.923	0.631	0.537	0.112	1	-83.0	6564	5209
102803604			52	7642	312	4.267	0.657	0.538	0.125	1	-83.0	6807	8331
102700582			93	8298	179	2.194	0.336	0.538	0.124	1	-83.0	6728	8564
102912056	14.0	13.1	42	5400	161	4.020	0.268	0.356	0.108	1	0.0	6882	8238
102714121			127	11754	1329	3.531	0.436	0.547	0.128	1	-83.0	8568	10552
102728810			59	6544	311	3.880	0.759	0.558	0.133	161	83.0	5367	6773
102907534	14.2	12.9	27	5048	103	2.645	0.425	0.382	0.083	7	0.0	5334	6196
102705034			35	8140	4261	3.425	1.089	0.563	0.137	95	-83.0	6660	6089
102750082			93	8848	308	3.699	0.378	0.564	0.137	171	-83.0	7238	8919
102735713			33	8269	4504	3.364	1.081	0.888	0.267	1	-83.0	6729	5795
102751114			33	5679	233	4.043	0.511	0.569	0.119	1	0.0	6590	5562
102859741			25	5106	180	3.429	0.483	0.579	0.143	1	-83.0	6888	6917
102790811			139	10418	663	3.695	0.361	0.582	0.152	1	-83.0	7960	10811
102780255			31	8327	4603	3.305	1.085	0.918	0.280	1	-83.0	6608	7561
102806946			42	13259	4166	3.262	1.076	0.601	0.384	1	-166.0	6833	6177
102731518			97	13843	3820	3.836	0.903	0.726	0.262	191	-83.0	8167	9549
102979206			60	14211	4289	3.557	1.038	0.743	0.181	161	-83.0	8390	10203
102710413			32	8247	4499	3.380	1.090	0.749	0.243	1	-83.0	6749	5684
102949185			52	6855	244	4.464	0.393	0.376	0.076	109	-83.0	6892	5764

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102811436			49	8806	464	4.194	0.571	0.468	0.188	127	0.0	7320	9681
102722725			82	8915	2065	2.980	1.040	0.759	0.168	1	-83.0	6670	7948
102719294			71	9121	2773	3.103	1.074	0.759	0.168	1	-83.0	6690	7604
102756372			61	9161	3083	3.200	1.077	0.759	0.168	1	-83.0	6831	8795
102740406			61	9156	3322	3.165	1.082	0.759	0.168	91	-83.0	6675	8172
102738852	15.0	14.3	46	9436	3946	3.258	1.092	0.759	0.168	1	-83.0	6608	7281
102828659			49	8631	450	4.362	0.529	0.149	0.195	1	0.0	7504	8817
102718194			47	8767	3131	4.178	0.539	0.759	0.168	51	-83.0	7425	7255
102699215			65	8952	2668	3.229	1.069	0.759	0.168	1	0.0	6755	8624
102848443			48	8430	457	4.329	0.571	0.199	0.194	1	0.0	7560	9201
102925500			74	6983	100	4.350	0.282	0.065	0.088	81	-83.0	6661	8132
102716532			55	13552	3875	3.470	1.241	0.759	0.168	1	-83.0	6794	6243
102748899			42	13567	4127	3.084	1.093	0.759	0.168	1	-83.0	6826	5768
102746290			34	9529	4281	3.362	1.091	0.759	0.168	1	0.0	6892	7807
102716619			58	9675	3536	3.293	1.052	0.759	0.168	1	-83.0	6806	8072
102798680			46	9583	3863	3.290	1.074	0.759	0.168	1	0.0	6588	7786
102747534			45	9659	4228	3.422	1.066	0.759	0.168	1	-83.0	6856	8832
102713829			63	9881	3915	3.616	0.997	0.759	0.168	1	-83.0	7007	7719
102715954			83	9970	3080	3.824	0.852	0.759	0.168	61	-83.0	7356	9266
102862231	13.8	13.4	49	10273	4451	3.508	1.058	0.988	0.086	1	0.0	7410	8935
102892305			51	9730	4282	3.583	1.020	0.907	0.144	71	0.0	7540	9168
102742069			54	11279	4185	3.671	0.998	0.759	0.168	1	0.0	7855	9721
102989009			102	13521	3734	3.671	0.874	0.759	0.168	191	-83.0	8230	9624
102829365	12.7	12.4	46	8436	470	4.159	0.640	-0.315	0.221	1	0.0	7331	8975
102962047			90	13674	3838	3.793	0.925	0.759	0.168	1	0.0	8530	13549
102972960			120	14119	3720	3.684	0.853	0.759	0.168	191	-83.0	8354	10060
102729308			116	14182	3748	3.027	0.834	0.759	0.168	1	-83.0	8240	10873
102972937			47	13994	4142	2.798	1.068	0.759	0.168	1	581.0	6936	5627
102956145			133	14519	2947	4.301	0.647	0.759	0.168	1	-83.0	7994	10088
102951718			142	14721	3208	3.519	0.904	0.759	0.168	1	0.0	8383	10701

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102750102			146	17708	2460	2.411	0.509	0.759	0.168	151	-83.0	6969	7845
102887267			47	8196	460	4.340	0.547	0.271	0.216	3	0.0	7442	9302
102874505			46	6396	256	4.056	0.812	-0.110	0.097	53	0.0	6616	6028
102878354			70	6384	267	3.886	0.810	-0.375	0.155	1	-83.0	6625	6175
102891262	13.7	12.9	174	17718	1970	4.041	0.772	0.759	0.168	1	-83.0	7967	10275
102891769			56	6296	319	3.950	0.729	0.095	0.083	91	0.0	5314	6187
102893513			67	6578	257	3.774	0.945	-0.215	0.102	1	0.0	5365	7477
102902852	12.7	12.3	55	6644	287	3.962	0.766	0.190	0.073	141	-83.0	6673	7527
102905097			64	6357	196	3.823	0.601	0.247	0.117	9	0.0	5205	6416
102909861	15.0	14.3	53	6481	300	4.021	0.718	0.082	0.091	71	-83.0	6669	5733
102918650	15.0	14.3	65	6381	273	4.100	0.632	0.265	0.078	181	-83.0	6706	5748
102922028			71	7342	320	4.155	0.730	-0.116	0.111	1	-83.0	6774	8202
102930707	15.1	14.5	41	6317	292	4.126	0.667	0.545	0.127	65	0.0	5238	5704
102939836			93	7410	306	4.217	0.674	0.185	0.086	151	0.0	6753	8832
102940856			52	7084	100	4.549	0.243	-0.043	0.121	1	0.0	6666	7587
102946461	15.5	14.8	28	6219	253	4.106	0.596	0.362	0.118	1	0.0	5417	5662
102949994			42	6174	328	4.086	0.633	0.421	0.072	111	-166.0	6650	6821
102963251			62	6843	272	3.852	0.899	-0.208	0.116	1	-83.0	6582	7487
102963423	14.0	13.3	63	6273	117	4.709	0.160	0.076	0.086	141	-166.0	5335	5689
102963707			48	6239	306	4.003	0.778	0.099	0.071	121	-83.0	5207	5716
102963836	15.0	14.4	64	6572	271	4.030	0.787	-0.181	0.107	1	0.0	5328	6551
102968423			33	5069	178	3.190	0.611	-0.465	0.204	11	0.0	5207	7618
102970903			50	6218	293	4.031	0.763	0.087	0.100	61	0.0	6629	6317
102971306			50	6032	294	3.600	0.800	-0.122	0.092	1	0.0	6567	5790
102971398	13.4	12.4	49	6067	325	4.008	0.732	0.218	0.101	1	-166.0	6663	5265
102974385	14.3	13.8	71	6950	274	4.012	0.802	-0.128	0.131	1	0.0	6579	7899
102979417			47	6326	321	4.256	0.647	0.329	0.129	1	-83.0	6737	6736
102979755			32	5135	194	3.396	0.529	0.222	0.129	1	0.0	6678	6891
102982057			51	5912	205	3.839	0.667	-0.186	0.090	1	0.0	6684	5742
102983123			37	5547	117	3.164	0.250	0.014	0.098	1	0.0	6595	5292

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102983190	14.9	14.1	32	5528	175	4.095	0.534	0.164	0.122	1	0.0	6687	6491
102986289			59	7031	274	3.849	0.880	-0.111	0.115	1	-83.0	6704	8810
102986998			65	6787	102	4.360	0.249	0.018	0.088	41	-83.0	5374	7208
102987965	13.2	13.0	107	10158	2589	3.916	0.737	0.759	0.168	51	-83.0	7835	9563
102989773	13.3	12.1	33	5347	162	3.384	0.637	0.101	0.127	1	0.0	6686	7772
102990516	15.4	14.7	41	6696	307	4.091	0.666	0.441	0.081	33	0.0	6733	6696
102990738			36	6007	282	3.879	0.613	0.272	0.110	1	0.0	6709	5315
102990882			69	6504	277	3.970	0.932	-0.214	0.098	61	83.0	6585	6289
102991663	14.2	12.6	56	14833	3478	3.117	0.920	0.156	0.497	1	-83.0	6743	5371
102994697	15.5	14.9	48	6690	312	4.060	0.703	0.371	0.095	191	-83.0	6587	7417
102995017	14.5	13.8	52	6152	232	4.234	0.664	-0.287	0.100	1	-83.0	6621	5625
102995134	14.4	13.7	66	6358	275	3.718	0.914	-0.275	0.095	1	-83.0	6661	6571
102995502			62	6530	274	3.851	0.778	-0.136	0.097	61	-83.0	6670	7082
102995575	15.0	14.3	54	6451	99	4.570	0.207	-0.038	0.115	51	-83.0	6572	6026
102996108			45	5485	170	3.783	0.507	-0.122	0.120	7	-83.0	5264	8060
102996269			40	5901	98	4.199	0.181	-0.018	0.104	11	0.0	6568	5271
102997394			103	7393	310	4.119	0.763	0.083	0.125	191	0.0	6766	8485
102998845	14.4	13.6	78	6415	309	4.005	0.871	-0.210	0.086	1	0.0	6660	5614
102999925			37	5362	162	3.536	0.643	-0.194	0.093	1	-83.0	5336	5269
103000272	13.7	13.3	139	13912	2920	3.882	0.721	0.759	0.168	1	-83.0	8176	13570
103001212			84	6873	290	3.890	0.902	0.091	0.104	41	-83.0	5302	7086
103001229			43	5459	261	3.892	0.555	-0.377	0.170	7	0.0	6562	6062
103001432			41	5289	201	3.673	0.903	-0.283	0.089	1	-83.0	5321	8219
103001594			43	5754	287	3.773	0.624	0.008	0.097	35	0.0	6607	5628
103002054			50	18531	1309	2.056	0.291	-0.275	0.322	51	-83.0	6826	5696
103004669			47	5558	100	3.112	0.101	0.001	0.122	11	0.0	6589	5643
103004770			90	7518	307	4.087	0.843	-0.115	0.120	191	-83.0	6842	8311
103006073			30	5308	177	3.258	0.637	0.135	0.118	1	0.0	6603	5901
103007182	15.2	14.4	47	6151	258	4.120	0.597	0.207	0.138	53	0.0	6599	5642
103008748	15.3	14.3	55	5924	210	4.248	0.493	-0.209	0.109	1	-166.0	6805	8482

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	<i>v_r</i> [km/s]	Teff CaK [K]	Teff Gband [K]
103010671			31	5274	149	3.755	0.547	0.170	0.111	1	0.0	5343	6151
103010887			60	6853	267	3.955	0.861	-0.099	0.102	1	-83.0	6679	6963
103012317	14.4	13.8	57	6370	256	3.970	0.960	-0.315	0.097	1	-83.0	6595	5726
103015114			72	6556	273	3.568	0.999	-0.308	0.120	1	-83.0	6830	7770
103015148			70	6644	327	3.804	0.776	0.079	0.127	71	-83.0	6566	7298
103015156			61	6666	311	4.087	0.689	0.306	0.069	171	-83.0	6569	7169
103015265	14.6	14.1	70	6925	273	3.897	0.878	-0.108	0.125	31	0.0	6615	8536
103015312			37	5792	272	4.103	0.634	-0.089	0.109	1	0.0	6612	5242
103016420	14.8	14.3	68	6796	282	3.810	0.940	-0.306	0.105	1	-83.0	6620	7933
103016538	14.5	13.9	55	6277	279	4.086	0.759	-0.080	0.076	1	-83.0	6583	5725
103016553			35	5385	158	3.222	0.627	0.065	0.140	11	0.0	5212	7886
103017065	14.0	12.4	35	12736	4210	3.310	1.094	0.171	0.465	1	-83.0	5476	6020
103018430			32	5219	191	3.444	0.595	-0.087	0.095	1	-83.0	5246	7454
103018973	15.2	14.4	38	6294	324	4.086	0.698	0.479	0.101	1	-83.0	6648	5619
103019556			67	6699	101	4.454	0.223	-0.006	0.073	81	0.0	6655	7382
103019883			73	6838	267	3.760	0.908	-0.231	0.096	1	-83.0	6660	8179
103020449			45	6232	281	4.189	0.642	0.316	0.113	1	0.0	6648	5623
103020958			48	5950	169	3.676	0.613	0.274	0.115	39	-83.0	6692	6828
103021022			82	13488	3894	3.817	0.909	0.759	0.168	1	-83.0	8227	9937
103021835			44	6422	289	4.202	0.725	0.091	0.084	1	-83.0	6618	5664
103021973	15.5	14.3	38	5392	131	3.450	0.546	0.074	0.119	1	-83.0	6662	6098
103022456	14.2	13.3	42	5775	219	4.128	0.585	-0.079	0.093	37	0.0	6597	6041
103023927	14.9	13.5	33	5907	164	3.495	0.643	0.383	0.092	7	-83.0	6612	5218
103024170			104	17889	2006	3.221	0.640	-2.091	0.630	1	-83.0	7802	9539
103026184			45	6387	101	4.691	0.161	0.211	0.116	53	0.0	6599	5664
103026313			56	6190	265	3.976	0.804	-0.124	0.118	81	0.0	6585	5762
103028834			52	7292	280	4.257	0.684	0.173	0.115	1	-83.0	6724	8375
103030936			66	6854	101	4.391	0.259	-0.023	0.106	91	0.0	6603	7830
103030940	13.8	12.8	37	5219	100	3.630	0.170	-0.177	0.131	7	0.0	6699	7735
103032246	13.5	12.8	45	6173	313	4.380	0.588	0.102	0.133	141	83.0	6816	5220

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v _{ini} [km/s]	v _r [km/s]	Teff CaK [K]	Teff Gband [K]
103034307			104	7686	316	4.209	0.721	0.199	0.102	141	0.0	6852	9332
103035247	11.9	11.4	70	6235	243	3.717	0.994	-0.459	0.197	1	0.0	6578	6291
103036346			53	6363	101	4.298	0.200	-0.014	0.092	61	0.0	6644	6173
103038006	14.4	13.7	69	6303	338	3.775	0.945	0.323	0.107	1	83.0	6599	5631
103038098			56	7349	294	4.228	0.670	0.271	0.127	1	0.0	6783	8492
103039646	14.8	13.2	31	5422	265	3.267	0.604	0.277	0.132	1	0.0	5329	7645
103040141	12.8	11.8	37	5666	99	3.499	0.229	0.043	0.101	1	-83.0	5207	6283
103040641	13.9	13.5	78	6989	300	3.996	0.809	0.092	0.108	101	0.0	6705	8377
103041695			57	6382	274	3.866	0.919	-0.223	0.113	41	0.0	6579	6059
103042634			131	13572	3679	3.331	0.840	0.759	0.168	161	-83.0	8204	10831
103043177	15.0	14.5	48	7106	301	4.156	0.647	0.384	0.082	41	0.0	6652	7383
103043459			50	7063	315	4.041	0.730	0.575	0.146	121	0.0	6826	7595
103044079			60	6885	287	3.853	0.863	0.112	0.084	1	0.0	6578	7614
103044280	13.5	13.0	82	6389	265	3.749	0.936	-0.386	0.166	61	0.0	6575	6496
103044763			115	13730	3640	3.844	0.821	0.759	0.168	191	-83.0	8365	12050
103044781			58	6414	103	4.350	0.226	0.023	0.078	1	0.0	6679	5713
103073208			34	6036	301	3.981	0.616	0.377	0.102	119	0.0	6732	5670
103113042			39	5031	128	3.247	0.527	-0.194	0.105	11	0.0	5322	8337
103117587			39	5370	286	3.350	0.667	-0.227	0.112	1	0.0	5309	5787
110655007	14.1	13.7	97	14844	3495	4.010	0.870	0.759	0.168	1	-83.0	7810	10588
110655142	15.1	14.5	54	6681	296	4.020	0.759	0.281	0.073	91	0.0	5330	6607
110655177	13.9	13.2	48	5736	274	4.141	0.724	-0.257	0.104	1	0.0	6571	5259
110655299	14.1	13.5	65	6476	260	3.982	0.892	-0.203	0.102	1	-83.0	5311	6489
110655313	16.5	15.7	41	6486	292	3.897	0.819	0.134	0.112	39	0.0	5259	6645
110655340	14.7	13.6	33	5348	199	3.968	0.516	0.099	0.106	1	0.0	6652	8714
110655379	13.8	13.3	52	6919	98	4.398	0.262	0.041	0.122	1	0.0	6687	7724
110655391	13.6	13.1	86	7876	335	4.218	0.674	0.191	0.083	71	0.0	6899	8791
110655425	15.3	14.2	38	5520	177	4.069	0.518	-0.103	0.093	1	0.0	5251	8045
110655479	14.4	13.8	68	6515	267	3.770	0.949	-0.311	0.097	1	-83.0	6635	7014
110655496	14.8	14.0	48	5893	101	4.258	0.191	0.077	0.111	105	0.0	6643	5658

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log g [dex]	Δ log g [dex]	M/H [dex]	Δ M/H [dex]	$v \sin i$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110655535	15.0	14.2	54	6164	277	3.668	0.890	-0.238	0.086	1	83.0	6613	6087
110655578	13.1	12.4	63	6606	257	3.728	0.960	-0.219	0.114	1	-83.0	6639	7178
110655604			50	6753	271	3.906	0.825	0.118	0.111	1	-83.0	5325	7269
110655629	14.3	13.7	55	6389	261	3.770	0.961	-0.400	0.178	1	-83.0	6559	6826
110655641	16.5	15.7	50	6486	332	4.027	0.735	0.492	0.104	161	0.0	6641	7498
110655712	14.9	14.3	54	6591	314	4.012	0.721	0.078	0.092	79	0.0	6618	6217
110655766	14.2	13.5	43	6441	285	3.716	0.849	0.147	0.086	1	-83.0	6659	6154
110655769	15.1	14.2	47	5592	252	4.019	0.829	-0.400	0.176	5	-83.0	6599	5371
110655782	15.1	14.4	39	5894	279	4.115	0.614	0.003	0.102	19	0.0	6576	5615
110655783	14.9	14.1	42	5497	208	4.573	0.366	-0.533	0.250	11	-83.0	6596	6467
110655905	13.8	12.7	39	5565	246	3.362	0.740	-0.157	0.115	1	0.0	6569	5794
110655936	14.1	12.9	34	8225	4376	3.403	1.097	0.759	0.168	1	0.0	5605	5701
110655951	15.7	15.0	48	6366	100	4.283	0.244	-0.031	0.103	1	-83.0	6548	6830
110655979	14.1	13.5	49	6328	265	3.942	0.827	-0.140	0.096	1	0.0	6565	6359
110656014	14.6	13.9	66	6050	260	4.178	0.803	-0.363	0.125	1	-83.0	6639	5633
110656145	15.2	14.3	50	13134	4329	3.370	1.067	0.759	0.168	1	-83.0	7790	9616
110656165	15.2	14.5	46	6774	284	4.018	0.754	0.181	0.128	9	-83.0	5291	7312
110656336	13.4	12.1	38	5011	70	2.711	0.501	-0.158	0.125	7	0.0	6696	7000
110656638	14.6	13.9	58	6205	100	3.902	0.194	0.033	0.101	91	-83.0	6603	5795
110656646	15.1	14.0	37	5326	99	3.519	0.211	-0.099	0.092	1	-83.0	6552	5553
110656693	16.8	16.0	34	13062	4267	3.291	1.097	-0.077	0.999	1	-83.0	5341	5760
110656702	14.9	14.2	41	5706	258	4.246	0.597	-0.013	0.125	3	0.0	5350	5244
110656731	13.9	13.3	56	6777	278	3.904	0.793	0.115	0.068	131	-83.0	6723	7802
110656772	16.2	15.5	55	6275	261	3.806	0.926	-0.357	0.096	1	-83.0	6610	6175
110656799	14.7	14.2	69	7874	327	4.379	0.544	0.519	0.116	41	0.0	6739	8901
110656880	15.2	14.5	47	6776	303	4.119	0.694	0.309	0.101	1	0.0	5355	6726
110657033	14.3	13.7	56	6797	308	3.970	0.757	0.383	0.065	171	0.0	5269	7444
110657111	15.9	15.1	48	6178	286	4.001	0.758	0.050	0.099	21	-83.0	5290	5771
110657114	16.5	15.7	32	6700	338	4.146	0.652	0.759	0.168	111	0.0	6668	6709
110657136	14.7	13.4	29	5309	180	3.316	0.579	0.066	0.095	11	-83.0	6609	7707

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110657179	15.4	14.7	55	6751	278	3.874	0.830	0.103	0.094	1	0.0	5263	7991
110657227	15.7	14.5	39	5448	185	3.441	0.651	0.118	0.132	1	0.0	6737	6811
110657358	15.1	14.3	46	6108	261	3.774	0.906	-0.204	0.099	1	-83.0	6631	5752
110657362	14.0	13.5	77	6331	262	3.601	0.946	-0.465	0.200	21	0.0	5279	8773
110657381	15.1	14.3	58	6660	257	3.964	0.725	-0.102	0.091	1	0.0	6685	6239
110657422	13.7	13.1	86	6704	277	3.697	0.917	-0.478	0.209	141	-83.0	6703	7614
110657459	14.9	13.4	29	5294	164	3.180	0.597	0.368	0.127	1	0.0	6700	7025
110657509	13.9	13.5	85	8023	380	4.283	0.651	0.128	0.088	25	-83.0	7114	8887
110657528	14.1	12.9	40	5522	179	3.850	0.458	-0.124	0.119	11	-83.0	6549	6632
110657539	14.7	14.1	60	6730	101	4.341	0.247	-0.013	0.088	1	0.0	6586	7689
110657586	14.9	14.0	56	5409	102	3.971	0.154	0.023	0.112	11	0.0	5338	6390
110657626	15.6	14.9	61	9426	3482	3.145	1.078	0.759	0.168	1	-83.0	6652	8485
110657668	15.1	14.5	56	6814	101	4.311	0.249	0.078	0.071	69	-83.0	6579	6869
110657841	15.1	14.4	51	6740	288	3.988	0.771	0.275	0.071	79	-83.0	6564	6854
110657842	14.9	14.1	38	5901	246	4.338	0.555	-0.101	0.103	1	-83.0	6606	5570
110657943	13.6	13.2	89	8091	363	4.253	0.661	0.309	0.079	1	-83.0	6892	8528
110657963	13.5	13.1	100	8075	96	4.709	0.250	0.005	0.132	1	-83.0	6879	8966
110657968	NaN	12.4	50	6159	260	3.764	0.907	-0.203	0.091	1	83.0	5329	6138
110658006	14.8	13.6	43	5260	175	3.474	0.639	-0.216	0.122	11	-83.0	6754	5794
110658011	13.5	12.9	65	6108	256	3.608	0.925	-0.390	0.159	1	0.0	6581	6313
110658021	14.6	13.9	69	6792	288	3.752	0.850	0.186	0.096	95	0.0	6625	6634
110658038	13.7	12.8	52	6092	102	4.487	0.202	-0.022	0.068	91	-83.0	6631	5647
110658108	15.1	14.5	59	7352	111	4.784	0.181	0.009	0.121	1	0.0	6844	7052
110658114	14.5	13.8	53	5851	202	4.171	0.616	-0.282	0.095	1	0.0	5325	5544
110658181			52	6362	303	3.746	0.879	0.106	0.076	81	-83.0	6585	6723
110658208	16.4	15.6	49	6145	289	3.985	0.822	-0.201	0.099	31	-166.0	6699	5707
110658239	13.8	13.4	102	7813	320	4.102	0.736	-0.127	0.119	31	0.0	7082	9761
110658250	15.0	14.3	44	6112	291	3.988	0.760	0.124	0.099	1	-83.0	6594	5797
110658308	13.1	12.1	42	5766	253	3.636	0.706	-0.026	0.106	5	0.0	6583	5281
110658314	14.1	13.1	31	5037	159	4.239	0.394	-0.288	0.093	1	0.0	6658	7800

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	$vsini$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110658378	15.0	14.3	43	6110	280	3.915	0.779	0.139	0.133	1	-83.0	6599	5689
110658396	15.6	15.0	69	6794	272	3.832	0.920	-0.251	0.118	19	-83.0	6743	7735
110658538	14.4	13.7	65	6788	295	4.089	0.707	0.087	0.085	111	0.0	5202	6523
110658595	14.8	14.2	56	6694	102	4.323	0.312	0.034	0.094	1	-83.0	6578	7037
110658604	14.9	14.2	35	5837	99	4.664	0.150	0.004	0.145	1	0.0	5332	6166
110658678	14.0	12.8	41	5300	218	3.547	0.674	-0.226	0.130	1	0.0	6660	7654
110658722	13.5	13.1	75	8241	375	4.389	0.564	0.528	0.120	1	0.0	6939	8717
110658739			36	5534	299	3.129	0.724	-0.126	0.122	1	-83.0	5270	5208
110658752	16.4	15.6	39	7679	2039	3.737	0.938	0.759	0.168	1	0.0	6579	6910
110658762	13.8	13.2	50	5891	246	3.996	0.897	-0.421	0.190	1	0.0	6644	5710
110658876	14.7	13.8	43	5403	200	3.963	0.527	-0.041	0.146	7	0.0	5306	9427
110658941	13.5	13.0	71	6786	265	3.769	0.938	-0.197	0.117	1	-83.0	6632	7587
110658983	14.8	14.0	55	6054	282	3.784	0.815	-0.309	0.099	57	0.0	5272	5634
110658996			69	6659	273	3.852	0.878	-0.188	0.103	1	0.0	6622	7221
110659009	14.9	14.4	94	14686	3496	3.520	0.968	0.759	0.168	1	0.0	7925	9503
110659078	16.5	15.6	40	6182	298	4.210	0.592	0.267	0.101	15	-83.0	6599	5703
110659081	14.7	14.0	33	6395	300	4.223	0.608	0.387	0.088	1	-83.0	6603	5692
110659094	14.9	14.3	54	6843	100	4.284	0.274	0.036	0.096	1	0.0	6648	8257
110659097	16.0	13.9	30	12172	4395	3.315	1.133	0.337	0.422	191	-166.0	5304	5416
110659116	14.1	13.7	129	9334	859	4.607	0.265	0.759	0.168	1	-83.0	7239	9438
110659131	12.3	11.8	55	6161	271	4.084	0.953	-0.380	0.138	1	-83.0	6563	6499
110659165	14.4	13.6	56	6352	280	3.903	0.751	0.115	0.099	91	0.0	6658	6008
110659243	14.8	14.1	49	6149	255	4.159	0.872	-0.344	0.098	1	-83.0	5323	5611
110659273			42	5615	216	4.480	0.463	-0.335	0.079	5	0.0	6662	6028
110659305	14.4	13.2	43	5549	226	3.727	0.713	-0.132	0.123	5	-83.0	5353	6018
110659313			55	6858	280	3.923	0.817	0.132	0.110	1	0.0	6626	7398
110659337	13.9	13.2	60	6809	263	3.855	0.874	-0.077	0.088	1	0.0	6637	7832
110659351	14.6	13.9	54	6268	278	3.535	0.856	-0.195	0.101	1	-83.0	6609	7160
110659403	15.0	13.8	39	5720	259	3.455	0.677	0.339	0.113	1	-83.0	6682	5463
110659510	16.0	15.4	64	6951	298	4.166	0.718	0.289	0.116	125	0.0	6641	7455

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>v</i> sin <i>i</i> [km/s]	<i>v_r</i> [km/s]	Teff CaK [K]	Teff Gband [K]
110659530	13.3	12.7	56	9280	3445	3.264	1.088	0.759	0.168	1	0.0	5287	8279
110659542	13.8	12.8	38	5501	216	4.088	0.597	0.014	0.121	5	-83.0	6699	5872
110659610	14.7	13.4	37	5394	173	3.391	0.640	0.152	0.145	11	-83.0	6681	6017
110659630	14.7	14.0	46	6357	282	3.859	0.744	0.278	0.137	31	0.0	5373	6177
110659763	13.3	12.6	44	5799	267	4.222	0.625	-0.083	0.131	1	0.0	6560	5294
110659773	15.0	14.3	60	5891	292	3.998	0.691	0.207	0.103	181	-83.0	6737	5351
110659883	15.4	14.1	36	5592	223	3.365	0.627	0.354	0.115	11	0.0	6618	5991
110659911	12.6	12.1	58	6257	262	3.789	0.915	-0.175	0.117	1	0.0	6572	6404
110659966	15.4	14.4	39	5562	244	4.269	0.558	-0.113	0.129	1	-83.0	6603	5288
110660025	13.0	12.3	58	6284	267	3.754	0.962	-0.198	0.109	1	0.0	6580	6219
110660026	14.9	14.1	31	5831	271	4.104	0.651	0.115	0.124	1	0.0	6706	5613
110660085	15.3	14.6	43	6809	277	4.016	0.792	0.128	0.119	1	-83.0	5351	6798
110660099			60	6796	268	3.858	0.876	-0.120	0.124	71	-83.0	6720	8733
110660152	12.7	12.1	46	5889	261	4.013	0.752	-0.130	0.126	31	-83.0	6590	5642
110660181	15.1	14.3	41	5934	99	4.025	0.209	0.034	0.124	1	0.0	5326	5722
110660192			46	6083	284	3.853	0.748	0.191	0.113	91	-83.0	5283	5755
110660200			42	14010	4392	3.285	1.135	0.171	0.518	1	0.0	5258	8231
110660254	15.6	14.3	42	5687	283	3.412	0.729	-0.243	0.103	11	-83.0	6653	5300
110660257	14.5	13.8	49	6273	106	4.511	0.200	-0.009	0.111	1	0.0	6631	5720
110660346	14.4	13.7	58	6296	273	3.998	0.848	-0.224	0.108	1	-83.0	6628	5772
110660349			33	5557	242	4.465	0.395	0.239	0.148	1	83.0	6701	7312
110660367	14.6	13.9	65	6717	269	3.896	0.888	-0.196	0.115	1	0.0	6672	7746
110660457	16.3	15.4	26	8690	4649	3.393	1.077	0.759	0.168	1	0.0	5209	6743
110660480	14.9	14.3	63	6732	285	4.016	0.750	0.203	0.082	141	-83.0	6711	7420
110660526	14.2	13.6	76	6514	259	3.650	0.919	-0.478	0.216	161	-83.0	6591	6900
110660609	15.9	15.1	46	6010	267	4.131	0.754	-0.180	0.088	1	-83.0	6718	5612
110660657	14.5	13.6	32	5392	133	4.110	0.359	0.401	0.084	11	-83.0	6573	6723
110660722			54	6286	278	4.029	0.782	-0.114	0.079	1	0.0	6581	6150
110660815	14.8	14.1	58	6315	264	3.720	0.931	-0.299	0.078	1	-83.0	6649	6706
110660902	15.3	14.0	30	5560	155	3.928	0.352	0.362	0.110	11	-166.0	6585	6128

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log g [dex]	Δ log g [dex]	M/H [dex]	Δ M/H [dex]	$vsini$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110661029			144	7771	335	4.559	0.366	-0.357	0.128	1	-83.0	7057	8425
110661057	14.7	14.2	124	7513	299	3.937	0.935	-0.117	0.121	131	-83.0	6909	8604
110661089	15.0	14.4	81	7419	294	4.160	0.774	-0.111	0.119	1	-83.0	6800	8575
110661118	15.0	13.9	27	8408	4507	3.377	1.087	0.759	0.168	1	0.0	6578	8837
110661164	15.5	14.4	46	5782	244	4.142	0.562	-0.071	0.118	1	-83.0	6607	5923
110661177	14.3	13.7	45	6187	292	3.897	0.694	0.177	0.119	135	0.0	5314	5792
110661200			81	6804	100	4.418	0.223	0.014	0.078	161	-83.0	6637	7148
110661227	15.4	14.7	43	6821	100	4.403	0.243	-0.020	0.127	1	-83.0	6713	7365
110661259	14.9	14.3	70	6578	280	4.071	0.724	-0.142	0.083	41	0.0	5345	6264
110661265	15.1	14.4	41	6087	284	4.131	0.711	0.107	0.099	1	0.0	5324	5724
110661308	14.2	13.2	43	5282	205	3.783	0.655	-0.138	0.133	1	0.0	6706	7613
110661354	14.9	14.1	38	5518	108	4.367	0.164	0.030	0.109	1	0.0	6620	6261
110661370			143	14093	3523	2.933	0.804	0.759	0.168	191	-83.0	8299	10932
110661373	16.1	14.6	32	5461	217	3.329	0.660	0.061	0.123	11	-83.0	6667	5219
110661383	13.5	13.0	68	6314	260	3.763	0.959	-0.331	0.103	1	0.0	6591	6366
110661529	14.0	13.3	54	6413	100	4.519	0.181	0.009	0.073	1	-83.0	6637	6092
110661560	16.4	15.5	34	5971	229	4.321	0.599	0.177	0.149	1	-83.0	5229	5201
110661591	15.0	14.1	31	5461	100	4.692	0.106	0.231	0.153	5	-166.0	5283	8335
110661612	12.8	14.0	43	5534	273	3.517	0.746	-0.181	0.100	1	0.0	6591	5411
110661679	14.3	13.8	77	8460	453	4.381	0.549	0.216	0.092	1	-83.0	7389	10960
110661708			72	7190	286	4.034	0.810	-0.114	0.099	1	0.0	6680	8852
110661773	14.6	13.9	48	5807	262	4.086	0.703	-0.179	0.086	1	0.0	6672	5380
110661942	15.4	14.2	40	5155	100	3.111	0.145	-0.179	0.133	1	-165.9	6551	9636
110661956			116	8230	418	4.259	0.597	-0.071	0.103	1	0.0	7123	9993
110661973	15.2	14.6	72	6844	275	3.735	0.958	-0.290	0.093	1	-83.0	6692	8602
110661982	15.4	14.6	33	5987	293	3.830	0.635	0.363	0.101	1	0.0	5360	5700
110661995	15.3	14.6	59	5962	257	4.228	0.608	-0.387	0.147	1	-83.0	6681	5345
110661998	14.4	13.4	41	5482	225	3.057	0.657	0.259	0.137	19	0.0	6584	5785
110662004			67	5727	261	3.771	0.875	-0.499	0.216	11	-83.0	6573	5393
110662034	15.3	14.7	48	6773	301	4.093	0.688	0.332	0.088	105	0.0	6718	6983

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110662070	17.7	16.2	132	16229	3039	2.212	0.573	-1.962	0.554	1	-581.1	5232	6652
110662114	13.6	12.9	44	5862	264	4.267	0.643	-0.152	0.124	1	-83.0	6576	5336
110662168	14.3	13.3	47	5543	107	3.527	0.214	-0.027	0.111	1	0.0	6682	6649
110662174	17.0	16.1	34	5396	221	3.574	0.567	-0.204	0.119	69	-83.0	6666	5841
110662252	14.8	14.2	61	7033	262	3.854	0.932	-0.086	0.108	1	0.0	6588	7651
110662368	14.1	13.5	60	7067	289	3.889	0.837	0.207	0.120	1	0.0	6732	8251
110662380	14.4	13.7	64	6674	264	3.821	0.919	-0.203	0.091	1	-83.0	6614	7351
110662387	15.0	13.8	44	5435	259	3.579	0.771	-0.434	0.195	1	-83.0	5364	8317
110662473	14.3	13.5	56	6230	281	3.796	0.827	-0.121	0.085	1	-83.0	6576	6230
110662510	15.2	14.5	46	6212	100	4.275	0.189	-0.038	0.078	11	-83.0	6670	5756
110662606	13.9	13.2	48	6184	287	4.187	0.655	0.328	0.106	107	0.0	6654	5678
110662612	15.3	14.6	48	6814	286	4.054	0.743	0.165	0.123	31	0.0	6761	7491
110662644			41	5605	242	3.560	0.730	-0.208	0.100	1	0.0	6635	7131
110662645	15.1	14.5	58	6490	269	3.734	0.946	-0.199	0.097	1	-83.0	6569	7053
110662739	17.1	16.2	38	5610	261	4.275	0.555	-0.083	0.138	1	-83.0	5300	5455
110662836	14.4	13.7	48	5948	268	4.095	0.805	-0.261	0.107	1	-83.0	6607	5671
110662876			51	6329	290	4.096	0.749	-0.122	0.115	61	0.0	6666	6080
110662963	13.5	12.1	34	5129	100	3.228	0.168	0.032	0.141	1	-83.0	5247	5851
110663073	16.1	15.3	39	6223	297	4.029	0.694	0.165	0.110	1	-83.0	6590	5794
110663115	15.6	14.8	38	6102	302	3.926	0.670	0.400	0.073	1	0.0	6566	5704
110663116	15.1	14.1	43	5559	219	3.880	0.676	-0.077	0.137	1	0.0	6720	6487
110663190	14.5	13.3	48	5481	159	3.601	0.595	-0.292	0.092	1	-166.0	6732	5885
110663389	16.4	15.6	44	7397	2944	3.539	0.998	0.759	0.168	1	-83.0	5285	6965
110663403	16.5	15.8	38	6768	300	3.973	0.737	0.384	0.087	1	-83.0	6657	7274
110663491	16.2	15.5	33	6772	294	4.021	0.720	0.380	0.096	1	0.0	6565	8382
110663501	15.0	14.4	71	6796	102	4.506	0.213	0.016	0.094	81	0.0	6551	6833
110663510	13.4	12.9	50	9124	3560	3.282	1.084	0.759	0.168	1	-83.0	6613	8578
110663578	15.5	14.0	34	5321	155	3.434	0.557	0.128	0.091	1	-166.0	6567	6551
110663623	14.5	13.8	40	6994	301	4.044	0.756	0.419	0.075	1	-83.0	6566	7190
110663696	14.8	14.2	41	6269	308	3.732	0.718	0.253	0.087	77	0.0	6595	6096

Table B.1. continued.

CoID	<i>B</i> <i>mag</i> [mag]	<i>V</i> <i>mag</i> [mag]	S/N	Teff [K]	Δ Teff [K]	log g [dex]	Δ log g [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110663865	12.3	12.1	73	6656	261	3.775	0.934	-0.185	0.093	1	0.0	6568	7098
110663906	15.0	14.3	55	6048	257	4.222	0.730	-0.324	0.088	61	-83.0	6551	5620
110663931	15.2	14.0	39	18187	1245	2.083	0.154	0.110	0.280	1	-166.0	6621	7175
110663954	15.1	13.8	32	5617	125	3.770	0.566	0.271	0.136	11	-83.0	5339	5834
110663970	13.3	12.1	40	5207	159	3.481	0.529	-0.030	0.076	5	-83.0	5288	7191
110664034	15.3	13.9	31	5602	137	3.374	0.611	0.332	0.098	3	-83.0	6645	6622
110664052	16.0	14.4	34	5330	118	3.091	0.533	0.167	0.129	9	-83.0	6606	7436
110664093	15.3	14.3	50	7685	322	4.273	0.672	0.523	0.119	1	0.0	6819	8875
110664159	15.1	14.5	69	7132	106	4.603	0.261	-0.001	0.095	1	-83.0	6673	9087
110664166			31	5262	140	3.267	0.589	0.351	0.119	11	-83.0	6679	5942
110664276	14.7	13.9	55	6331	263	3.878	0.910	-0.194	0.092	1	-83.0	6583	6238
110664323	14.7	13.9	35	5421	221	4.065	0.537	0.111	0.138	5	0.0	6722	6347
110664407	15.6	14.2	41	5116	156	3.529	0.572	-0.073	0.104	1	0.0	5223	7862
110664454	14.1	13.4	53	5908	270	4.051	0.803	-0.312	0.101	1	0.0	6641	5695
110664471	15.1	14.4	52	6630	270	3.835	0.775	-0.155	0.108	1	0.0	6573	7206
110664487	14.4	13.8	75	6884	278	3.957	0.836	-0.105	0.106	1	-83.0	5338	7198
110664511	14.2	13.5	47	6039	274	4.057	0.756	-0.098	0.123	1	0.0	6612	5680
110664591	15.9	15.1	30	6125	276	4.109	0.733	0.164	0.153	1	-83.0	6768	5709
110664660	16.0	15.2	33	5856	295	3.700	0.667	0.467	0.095	71	0.0	6615	5719
110664675	14.2	13.6	133	13849	3348	3.260	0.813	0.759	0.168	1	-83.0	8276	12661
110664677	14.5	13.8	59	6123	248	4.174	0.829	-0.509	0.211	1	-83.0	6563	5622
110664687	15.2	13.8	37	5548	100	3.849	0.177	-0.050	0.102	11	-83.0	6631	6707
110664884	14.2	13.6	55	6833	277	3.941	0.780	0.060	0.091	1	0.0	6642	7589
110664885			45	5983	284	4.173	0.645	0.082	0.116	1	-83.0	6677	5356
110664898	15.8	15.2	39	6848	270	3.856	0.795	0.092	0.156	1	-83.0	6637	7495
110665024	15.1	14.2	43	5463	229	4.382	0.479	-0.288	0.106	1	0.0	6641	7501
110665044	14.8	14.1	50	6215	307	4.189	0.654	0.020	0.111	43	0.0	5369	5646
110665066	14.9	14.2	41	6080	275	4.193	0.639	0.083	0.131	1	0.0	6589	5628
110665068	13.2	12.7	64	6601	265	3.720	0.961	-0.183	0.083	1	-83.0	6561	7396
110665113	13.8	12.6	33	5209	159	3.200	0.587	0.385	0.094	1	0.0	6770	6167

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110665123	16.6	15.9	45	6151	299	4.064	0.664	0.219	0.088	145	-83.0	6657	5645
110665153	15.3	14.6	53	6291	269	3.733	0.837	-0.067	0.094	1	-83.0	6572	6453
110665170	13.2	12.1	34	5513	227	3.533	0.660	0.183	0.115	1	0.0	6684	6091
110665276	15.4	14.1	36	5215	145	3.209	0.623	-0.218	0.118	1	0.0	5325	7278
110665373	17.1	16.2	39	9769	4530	3.533	1.008	0.759	0.168	1	-83.0	6801	8399
110665414	15.0	14.0	44	5627	243	3.858	0.806	-0.408	0.185	1	-83.0	6659	6792
110665432	14.4	13.5	67	6430	262	3.711	0.917	-0.194	0.114	1	-83.0	5314	6593
110665435			53	6208	273	3.848	0.897	-0.155	0.084	1	0.0	6612	6086
110665454	14.2	13.4	46	5715	241	4.417	0.578	-0.375	0.152	1	0.0	6660	5216
110665499	15.1	13.8	32	5471	166	3.173	0.631	0.444	0.084	1	0.0	6689	5898
110665519	14.6	13.9	33	12923	4251	3.181	1.085	0.380	0.557	1	-83.0	5366	5646
110665564	14.5	14.1	87	8255	411	4.265	0.617	0.118	0.092	1	0.0	7044	9034
110665675	13.3	12.7	50	6261	293	3.895	0.785	0.186	0.098	51	0.0	5267	5798
110665689	13.3	13.1	129	12620	2837	4.256	0.601	0.759	0.168	181	-83.0	8201	10114
110665810	15.1	14.5	62	6590	287	3.780	0.984	-0.187	0.116	1	-83.0	6633	7046
110665835	14.1	12.8	41	5484	178	3.973	0.433	-0.187	0.121	1	0.0	6663	7456
110665931	14.1	13.6	70	6380	252	3.965	0.900	-0.305	0.095	1	-83.0	6636	5791
110665979	14.5	13.8	47	6089	303	4.195	0.652	0.081	0.094	1	-83.0	6711	5643
110666090	14.6	13.9	49	6336	302	3.934	0.747	0.187	0.139	71	0.0	6560	6142
110666104	15.1	14.5	55	6304	311	3.848	0.754	0.372	0.088	151	-83.0	6615	6495
110666125	14.3	13.3	40	5643	257	3.903	0.687	-0.181	0.102	1	-83.0	6677	6497
110666150	14.9	13.6	29	5395	148	3.695	0.519	0.349	0.130	1	-83.0	6579	8173
110666198	15.3	14.5	49	6295	294	3.969	0.766	0.098	0.087	1	0.0	6647	5758
110666206	14.1	13.5	50	6740	280	3.908	0.833	0.085	0.107	1	-83.0	5368	7450
110666240			31	5595	242	4.302	0.464	0.281	0.138	11	-83.0	6587	5604
110666250			73	6289	262	3.923	0.911	-0.379	0.159	1	-83.0	6640	6478
110666314	15.1	14.4	52	6825	277	3.997	0.815	0.067	0.080	1	0.0	6563	7356
110666321			46	6201	293	3.677	0.798	0.110	0.090	1	0.0	6614	5779
110666328			68	6592	256	3.726	0.937	-0.323	0.097	1	-83.0	5371	7627
110666430	14.9	14.1	54	6331	101	3.924	0.280	-0.049	0.082	1	-83.0	5303	6191

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log g [dex]	Δ log g [dex]	M/H [dex]	Δ M/H [dex]	$v \sin i$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110666508	14.3	13.6	48	5862	258	4.136	0.747	-0.355	0.123	1	0.0	6619	5629
110666627	14.8	14.1	50	5909	283	3.993	0.764	-0.165	0.095	1	0.0	6627	5659
110666733	14.1	13.0	35	5422	98	3.206	0.238	0.029	0.121	1	0.0	5330	5325
110666802	14.6	13.9	79	5462	173	4.337	0.792	-1.701	0.252	11	-83.0	6555	5372
110666827	13.8	13.1	43	5690	239	4.292	0.633	-0.312	0.078	1	0.0	6640	5357
110666845	16.6	15.8	45	6857	265	3.916	0.899	-0.086	0.126	1	-83.0	6699	6916
110667028	15.3	14.4	33	5666	236	4.310	0.474	0.236	0.150	11	-83.0	6785	7057
110667090	13.4	12.2	31	5530	137	4.030	0.530	0.227	0.092	1	-83.0	6674	5734
110667124	15.3	14.5	49	6123	280	3.884	0.827	-0.085	0.094	1	0.0	6548	5795
110667213	15.1	14.3	44	6294	298	4.046	0.725	0.269	0.093	19	0.0	6635	5747
110667305	14.6	13.9	40	5733	265	4.200	0.659	-0.095	0.138	1	83.0	6641	5208
110667307			66	6248	268	3.882	0.957	-0.505	0.216	111	-83.0	5329	5709
110667321	13.5	12.3	33	5133	96	2.949	0.226	-0.037	0.088	11	-83.0	6617	7451
110667447	14.9	14.3	59	6362	274	3.821	0.797	-0.117	0.096	1	0.0	6594	6524
110667448	13.9	13.1	43	5872	271	3.709	0.812	-0.138	0.107	1	-166.0	6639	5700
110667461			152	8249	102	4.525	0.336	-0.005	0.108	161	-83.0	7422	9860
110667466	13.0	12.1	35	5473	228	3.670	0.632	0.110	0.103	1	0.0	5354	7443
110667627	14.4	13.7	49	5903	273	3.922	0.857	-0.291	0.098	1	0.0	6643	5705
110667676	12.3	12.1	15	17988	1411	2.006	0.141	-0.128	0.957	1	-83.0	7183	9620
110667704	14.5	13.7	29	6288	300	4.266	0.562	0.569	0.137	1	0.0	5253	5218
110667793			131	15120	2512	3.827	0.514	0.512	0.117	1	-166.0	8384	9992
110667838	14.8	14.1	55	6852	100	4.267	0.266	0.018	0.095	1	-83.0	6674	7803
110667960			54	6288	278	3.992	0.809	-0.009	0.070	13	0.0	6617	6589
110667970			52	6482	103	4.319	0.226	0.030	0.122	1	0.0	6617	6407
110668219	15.2	14.4	41	6464	311	3.890	0.719	0.454	0.085	81	0.0	6737	6119
110668287	14.1	12.9	42	5576	246	3.404	0.779	-0.306	0.088	1	-166.0	6650	6542
110668307	14.1	13.0	48	6577	232	4.516	0.329	0.279	0.095	51	0.0	6715	6240
110668458			41	6302	274	3.944	0.728	0.523	0.118	131	-83.0	5301	5744
110668563			78	6877	276	3.742	0.871	-0.264	0.109	29	-83.0	6697	7835
110668598			118	7702	344	4.336	0.606	0.212	0.086	191	0.0	6950	8376

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110668649			70	6763	272	3.886	0.849	-0.132	0.107	61	0.0	6690	8025
110668654	16.1	15.4	58	6741	253	3.861	0.884	-0.218	0.144	71	-83.0	5371	7229
110668690	13.9	13.0	55	5739	187	3.904	0.673	-0.369	0.143	1	0.0	6643	6315
110668763	14.6	13.3	47	5213	167	3.393	0.636	-0.289	0.096	9	-83.0	6670	6880
110668870			40	5496	101	3.930	0.191	0.020	0.125	1	0.0	6700	5868
110668936	15.2	14.4	40	5759	101	4.520	0.160	0.036	0.135	1	0.0	6677	5257
110668957			64	5933	244	4.187	0.792	-0.449	0.193	1	0.0	6607	5309
110668963	15.5	14.7	39	6053	272	4.116	0.734	-0.094	0.096	1	-83.0	6689	5700
110668977	13.4	12.3	35	5277	99	3.724	0.170	-0.040	0.135	11	0.0	6668	7775
110668993	14.7	13.3	40	5654	103	3.188	0.247	0.032	0.105	1	-83.0	6649	5316
110669003	14.8	14.0	48	6222	311	3.926	0.689	0.363	0.101	161	-83.0	6592	5718
110669059	12.6	12.1	149	12605	2634	4.204	0.554	0.759	0.168	1	0.0	8365	10539
110669141	15.1	14.4	65	6919	300	4.065	0.752	0.196	0.117	23	0.0	6624	7798
110669209	14.8	14.0	71	6149	253	3.441	0.917	-0.475	0.201	1	-83.0	5316	6202
110669216	16.0	14.5	40	5657	272	3.223	0.672	0.298	0.138	11	-83.0	6564	5266
110669230	14.4	13.7	212	5042	126	4.542	0.427	-2.310	0.869	1	0.0	5348	6257
110669347	13.0	12.4	82	6510	255	3.813	0.935	-0.379	0.141	1	-83.0	6613	7338
110669517			76	7620	309	3.979	0.809	0.107	0.088	1	0.0	6754	8683
110669550	15.0	14.2	44	5889	294	3.902	0.716	0.159	0.129	1	0.0	5359	5708
110669565			114	8420	442	4.304	0.598	0.106	0.106	181	0.0	7406	9593
110669573	14.8	13.9	36	5949	262	4.523	0.435	0.104	0.140	1	-83.0	6673	6920
110669789	14.9	14.1	36	5839	283	4.186	0.600	0.105	0.111	1	-83.0	6625	5318
110669857	15.0	14.2	46	5978	275	4.093	0.743	-0.100	0.122	1	-83.0	6721	5667
110669912	16.0	15.2	49	6622	294	4.060	0.786	0.219	0.087	1	-83.0	6643	5769
110669924			47	7028	329	4.684	0.196	0.424	0.077	57	-83.0	6805	7000
110669933	13.5	13.0	88	7250	99	4.803	0.176	0.194	0.099	105	0.0	6569	6473
110669936	14.8	14.1	61	6491	279	3.756	0.776	-0.211	0.113	107	-83.0	6576	7123
110669952			43	5686	227	4.361	0.517	-0.111	0.139	1	0.0	6602	6618
110669955	13.7	13.1	86	6342	263	3.818	0.883	-0.429	0.199	111	-83.0	5342	6547
110669958	15.7	14.9	43	6310	293	3.955	0.737	0.284	0.091	111	-83.0	6664	5791

Table B.1. continued.

ColD	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	$v \sin i$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110670223	14.3	13.1	43	5573	243	3.547	0.757	-0.261	0.115	1	0.0	6816	6568
110670272	15.4	14.6	42	5987	269	4.141	0.597	0.122	0.129	25	-83.0	6567	5443
110670323			58	6431	274	3.742	0.794	-0.093	0.089	51	-83.0	5278	6218
110670362	14.3	13.6	72	6102	250	3.587	0.953	-0.427	0.185	1	-83.0	6579	6296
110670402			63	6064	265	3.916	0.865	-0.277	0.093	1	-83.0	6615	5636
110670410			37	5184	147	3.305	0.506	-0.149	0.122	11	0.0	6705	9100
110670455	14.1	13.1	45	5658	190	3.890	0.653	-0.181	0.086	1	-83.0	6686	5309
110670480	14.6	14.0	60	6424	273	3.937	0.803	-0.087	0.102	1	-83.0	6588	6297
110670588	14.9	14.2	44	6270	309	3.975	0.754	0.160	0.111	1	-83.0	6640	6210
110670714	15.3	14.4	42	5348	222	4.360	0.507	-0.472	0.206	11	-83.0	6647	5817
110670723	14.9	14.2	36	5950	263	3.879	0.652	0.289	0.132	95	0.0	6633	5693
110670762	15.2	14.6	72	7192	100	4.426	0.295	0.013	0.085	1	0.0	6669	8093
110670866			75	6840	272	3.918	0.861	-0.241	0.123	73	-83.0	6621	6967
110670892	13.4	12.9	121	14820	3261	4.150	0.781	0.759	0.168	161	0.0	7393	9208
110670983	15.2	14.4	45	5752	243	4.442	0.528	-0.175	0.100	1	0.0	6633	5387
110671080	13.9	12.9	64	5094	125	2.923	0.587	-0.356	0.126	1	0.0	6708	5793
110671233	13.1	12.5	50	6170	100	4.125	0.225	-0.021	0.122	1	0.0	6608	5793
110671285			65	6063	259	3.633	0.983	-0.370	0.109	1	-166.0	6633	6306
110671314	14.5	13.7	42	5602	161	4.135	0.545	0.321	0.118	35	0.0	6620	5279
110671359			57	6477	101	4.290	0.232	-0.006	0.093	61	-83.0	6643	6289
110671378	14.1	13.5	60	6167	252	3.924	0.949	-0.405	0.174	1	0.0	6621	6047
110671421	15.6	14.8	40	5935	273	3.965	0.800	-0.074	0.090	1	-83.0	5371	5738
110671429	13.8	13.3	82	7958	368	4.354	0.585	0.311	0.088	1	0.0	6983	9066
110671430	14.8	13.8	35	5614	98	4.261	0.181	0.036	0.114	1	-83.0	5326	6245
110671546			59	6234	290	3.797	0.820	-0.190	0.112	59	-83.0	6572	6065
110671589	14.7	13.4	106	18045	900	2.200	0.359	-0.282	0.490	1	0.0	6688	6103
110671620	15.3	14.6	60	6455	261	3.660	0.933	-0.303	0.107	1	-83.0	6637	6751
110671674			37	5568	108	3.725	0.206	-0.011	0.106	1	-83.0	5255	5446
110671743			31	5208	102	3.320	0.196	0.041	0.127	1	-83.0	6678	7640
110671882	16.7	15.9	30	7052	314	4.275	0.534	0.759	0.168	103	-83.0	5365	7554

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110672204	14.9	14.2	78	6301	259	3.787	0.923	-0.383	0.150	1	0.0	6594	6535
110672256	13.8	12.6	37	5598	101	3.659	0.188	-0.022	0.108	11	-83.0	5329	7650
110672301	14.5	13.9	57	6282	269	3.922	0.830	-0.092	0.109	1	0.0	6549	6238
110672331	14.7	14.0	58	6119	267	3.666	0.941	-0.367	0.142	1	0.0	6549	6421
110672594			48	7088	294	4.048	0.736	0.498	0.107	1	0.0	6597	7387
110672597	15.2	14.4	60	6355	307	3.880	0.805	0.126	0.085	111	-83.0	6587	5795
110672675	14.8	13.2	37	13247	4217	3.317	1.105	0.587	0.824	1	-166.0	6739	5967
110672706	13.5	12.9	79	6366	258	3.718	0.951	-0.477	0.204	121	0.0	6627	6666
110672805	13.2	11.9	32	5035	103	2.880	0.122	-0.049	0.124	11	0.0	6614	6381
110672841			31	5172	197	3.426	0.565	0.178	0.102	1	0.0	6581	7506
110673022	16.3	15.5	47	9389	3748	3.274	1.088	0.759	0.168	1	-83.0	6696	7309
110673273	15.1	14.5	71	6091	262	3.594	0.912	-0.506	0.223	191	-166.0	6549	5786
110673334	12.6	11.7	47	5627	99	3.835	0.187	-0.038	0.117	11	0.0	6557	6613
110673381	14.9	14.2	57	6021	262	3.866	0.917	-0.399	0.170	1	0.0	6629	5780
110673408			55	6289	266	4.116	0.778	-0.117	0.102	1	-83.0	6631	5772
110673425	14.5	13.9	67	6577	261	3.756	0.932	-0.191	0.112	1	0.0	6550	7249
110673430	14.1	13.5	78	6259	262	3.579	0.963	-0.496	0.207	1	-83.0	6589	6621
110673478	16.8	15.9	42	6350	288	3.896	0.804	0.113	0.087	31	0.0	6610	6078
110673571	16.1	15.4	58	6606	265	3.811	0.972	-0.311	0.105	1	-83.0	6613	7160
110673654	14.1	13.4	55	5928	258	4.151	0.829	-0.435	0.184	1	0.0	6624	5688
110673709	15.2	14.4	37	5544	214	4.128	0.563	0.073	0.135	11	0.0	6628	6916
110673772	14.3	13.8	56	7548	296	4.064	0.802	0.535	0.123	1	-83.0	6592	8682
110674099	13.4	12.7	54	6201	102	4.288	0.217	0.044	0.104	1	0.0	6575	5760
110674158	15.0	14.3	44	6276	100	4.377	0.196	-0.012	0.087	1	0.0	6589	5702
110674168	14.7	13.8	33	5461	98	3.466	0.212	-0.009	0.110	1	-83.0	6670	5611
110674171			33	5697	185	3.859	0.493	0.587	0.130	1	0.0	6729	6438
110674209	15.6	13.7	36	5260	118	2.842	0.467	0.360	0.108	7	0.0	6897	5732
110674247	17.1	16.3	36	13270	4689	3.221	1.030	-1.696	0.677	69	0.0	5218	6073
110674325	14.9	14.2	59	6127	284	3.942	0.774	-0.188	0.106	87	-83.0	5367	5722
110674329	13.7	12.7	38	5863	292	3.857	0.639	0.375	0.102	15	0.0	6685	5700

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	<i>v_r</i> [km/s]	Teff CaK [K]	Teff Gband [K]
110674421	14.8	14.3	98	7650	329	4.156	0.720	0.087	0.104	121	0.0	6873	8775
110674444	14.9	14.3	50	6377	293	4.094	0.772	0.197	0.101	65	0.0	6664	5733
110674498	14.8	14.0	48	6380	291	3.836	0.826	0.075	0.093	51	-83.0	6687	6242
110674702	13.1	12.5	58	6403	260	3.888	0.936	-0.210	0.109	1	-83.0	5354	6285
110674724	14.4	13.3	55	5754	244	3.838	1.078	-0.046	0.110	5	-83.0	6656	5701
110674786	14.2	13.6	67	6463	257	3.662	0.923	-0.295	0.089	1	-83.0	6565	6774
110675082	14.9	14.3	49	5950	271	3.766	0.871	-0.338	0.155	1	-249.0	6576	5690
110675158			40	5331	100	3.358	0.204	-0.104	0.125	1	0.0	6571	6961
110675289	14.5	13.9	88	6575	274	3.717	0.970	-0.462	0.206	31	-83.0	5363	7555
110675303	14.9	14.2	44	5887	294	3.531	0.649	-0.018	0.085	33	83.0	6556	5648
110675305	13.8	13.1	53	5931	279	3.999	0.741	-0.110	0.112	1	0.0	6588	5634
110675448	14.6	13.9	53	6276	100	4.453	0.181	-0.006	0.105	21	-83.0	6587	5756
110675449	14.8	13.9	52	5253	119	3.130	0.427	-0.278	0.099	1	0.0	5263	6085
110675488	13.8	13.2	70	6670	268	3.843	0.957	-0.189	0.103	1	-83.0	6632	6936
110675494			44	5439	221	4.435	0.458	-0.503	0.214	11	-166.0	6603	6982
110675501	15.3	13.6	16	9089	4957	3.394	1.086	0.759	0.168	1	0.0	5271	7022
110675538	14.2	13.6	64	6087	263	3.902	0.896	-0.314	0.098	51	-83.0	6625	5729
110675540	14.0	12.9	42	5466	100	3.293	0.196	-0.209	0.119	5	0.0	6656	7180
110675714	17.3	16.3	31	5419	100	2.056	0.103	0.430	0.094	1	0.0	6818	5298
110675746	15.0	14.4	67	7688	327	4.309	0.614	0.281	0.085	81	0.0	6764	8625
110675762			63	6077	255	3.818	0.997	-0.379	0.139	1	0.0	6586	5781
110675764			55	6285	294	3.879	0.794	0.103	0.093	1	0.0	6623	6184
110675850	15.2	14.5	57	6291	264	3.724	0.957	-0.214	0.085	1	-83.0	6612	6474
110675899	15.5	14.9	69	6550	275	3.612	0.999	-0.378	0.145	1	83.0	5323	7337
110675906			51	6366	283	3.863	0.821	0.126	0.142	1	0.0	6654	6441
110675972	15.8	15.1	68	9945	4010	3.529	0.971	0.759	0.168	1	0.0	6610	7912
110676046	15.6	14.4	36	12789	4223	3.190	1.068	-0.022	0.466	1	-83.0	5215	6819
110676068	14.9	14.1	44	6357	280	3.924	0.802	0.178	0.100	45	-83.0	5291	6594
110676139	15.1	14.3	43	6162	294	4.254	0.651	0.100	0.109	1	0.0	5369	5606
110676147	13.1	12.5	75	6340	260	3.595	0.968	-0.459	0.204	1	0.0	6605	6744

Table B.1. continued.

CoID	<i>B</i> _{mag} [mag]	<i>V</i> _{mag} [mag]	S/N	T _{eff} [K]	Δ T _{eff} [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>v</i> _{ini} [km/s]	<i>v_r</i> [km/s]	T _{eff} CaK [K]	T _{eff} Gband [K]
110676283	14.8	14.2	61	6617	260	3.755	0.936	-0.313	0.104	1	-83.0	6552	7064
110676318	15.4	14.3	34	5544	104	4.087	0.165	0.075	0.110	1	-83.0	6611	7446
110676345	15.1	14.1	39	5556	184	3.785	0.581	0.455	0.092	1	0.0	6760	5611
110676446	16.7	15.8	35	5643	136	3.346	0.586	0.035	0.193	7	-83.0	5306	6299
110676544	17.0	16.2	64	6383	256	3.733	0.956	-0.470	0.201	41	-83.0	6601	6845
110676555	14.7	14.0	52	6095	275	4.059	0.766	-0.115	0.104	1	-83.0	6618	5731
110676608	15.8	14.3	30	5235	119	3.305	0.612	0.253	0.134	11	0.0	5315	6304
110676624			93	9677	3254	3.464	0.976	0.759	0.168	1	0.0	6673	8466
110676643	14.5	13.2	29	5308	201	3.408	0.555	0.411	0.090	1	0.0	6819	6637
110676711	13.7	13.1	54	6416	269	3.875	0.814	-0.105	0.096	1	0.0	6602	6312
110676830			34	5437	100	3.704	0.191	0.005	0.101	1	-83.0	6620	7219
110676855	14.8	14.1	47	5787	266	4.189	0.675	-0.162	0.091	1	0.0	6704	5611
110676884	15.1	14.4	67	7058	100	4.465	0.253	-0.004	0.127	61	-83.0	6716	7825
110676906	NaN	12.4	107	15192	3258	3.724	0.937	0.759	0.168	1	-83.0	8389	10959
110676985			73	9765	3815	3.486	1.045	0.759	0.168	1	-83.0	6903	8735
110677056	12.4	11.5	61	6196	264	3.568	0.972	-0.354	0.119	1	83.0	6577	6115
110677210	15.2	14.3	21	5526	161	4.054	0.432	0.419	0.081	1	0.0	6668	6266
110677245	15.3	14.3	35	5414	255	3.933	0.591	0.066	0.091	7	-83.0	5234	8698
110677427	15.4	14.1	33	5219	169	3.757	0.516	0.061	0.097	5	-83.0	6842	5850
110677505	14.5	13.7	42	6069	272	4.251	0.589	0.168	0.123	41	-83.0	6701	5622
110677517	16.0	15.3	34	6267	305	3.807	0.751	0.435	0.073	99	0.0	5301	6261
110677821	13.5	12.4	35	5502	97	3.500	0.210	0.030	0.100	1	-83.0	6747	6050
110677942	14.0	13.3	54	6252	277	3.753	0.839	-0.130	0.073	81	-83.0	6625	6256
110677954	13.9	12.7	32	5470	166	3.095	0.549	0.514	0.117	1	0.0	6586	6228
110678042	15.6	15.0	67	6914	263	3.768	0.918	-0.285	0.106	1	-83.0	6582	8185
110678079			65	6330	328	4.067	0.710	0.088	0.097	121	0.0	6632	5620
110678140	16.5	15.8	45	6319	253	3.823	0.960	-0.309	0.104	1	-83.0	5331	6177
110678224	14.7	14.1	64	6301	250	3.632	0.934	-0.373	0.169	1	-83.0	6591	6595
110678291			45	5238	114	3.364	0.583	-0.242	0.121	7	-166.0	6569	5233
110678335	14.0	13.6	63	8127	381	4.488	0.462	0.510	0.112	11	-83.0	7283	8499

Table B.1. continued.

CoID	<i>B</i> _{mag} [mag]	<i>V</i> _{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log _e [dex]	Δ log _e [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	<i>v_r</i> [km/s]	Teff CaK [K]	Teff Gband [K]
110678342			52	6238	269	3.521	0.943	-0.273	0.087	1	-83.0	6557	6053
110678601	15.2	14.5	55	6177	101	3.939	0.241	0.031	0.096	101	0.0	6673	5792
110678852	14.5	13.8	50	6447	295	4.057	0.752	0.112	0.098	71	0.0	6662	5718
110678888			79	6406	252	3.845	0.941	-0.429	0.198	1	-83.0	6612	6547
110678987	17.0	16.2	56	6396	260	3.991	0.923	-0.320	0.084	1	-83.0	6719	6167
110679012	15.2	14.3	34	5104	197	3.889	0.463	0.255	0.135	11	0.0	6788	7191
110679020	15.3	13.7	34	5553	183	3.542	0.387	0.213	0.102	1	-83.0	6713	5208
110679138			65	7054	283	3.929	0.920	-0.219	0.136	1	0.0	6550	8161
110679155			45	6374	309	3.891	0.727	0.345	0.100	121	0.0	5294	6074
110679231			66	9258	3082	3.057	1.071	0.759	0.168	1	-83.0	6615	7645
110679318	14.9	14.3	47	9458	3901	3.248	1.084	0.759	0.168	1	-83.0	6565	7879
110679411			62	7261	285	4.273	0.684	0.393	0.070	1	0.0	6691	7781
110679515	15.2	13.3	38	13137	4215	3.272	1.103	0.369	0.458	1	-166.0	6741	5218
110679551	13.4	12.9	46	9578	3948	3.259	1.090	0.759	0.168	1	-83.0	6686	8255
110679565	14.9	14.0	36	5616	226	3.875	0.529	0.441	0.082	1	0.0	6701	6931
110679631	14.2	13.6	64	6946	100	4.255	0.328	0.020	0.086	1	0.0	6634	8623
110679646			31	12504	4317	3.310	1.105	0.155	0.862	1	-830.1	6823	8214
110679698	15.5	14.0	30	5319	114	3.535	0.445	0.456	0.089	1	-83.0	6615	6384
110679725			111	7280	97	4.383	0.296	-0.015	0.100	101	0.0	6685	8895
110679821			30	5436	212	3.366	0.641	0.059	0.119	11	-83.0	5263	7028
110679833	13.2	12.5	81	5487	206	3.663	0.902	-1.002	0.550	1	0.0	6623	5627
110679973	14.7	14.0	45	5966	101	4.294	0.203	-0.009	0.096	11	0.0	5310	5755
110680003	14.6	13.9	37	6114	284	4.096	0.633	0.221	0.092	43	-83.0	5334	5635
110680005			112	14642	3645	3.356	0.986	0.759	0.168	1	83.0	8244	9841
110680039	15.0	14.4	51	6102	100	4.255	0.186	-0.016	0.090	21	0.0	5356	6150
110680054	14.8	14.0	83	14909	3611	3.508	0.998	0.759	0.168	1	-83.0	8547	10320
110680059	14.7	13.8	35	5156	206	4.268	0.426	-0.152	0.120	1	-83.0	6637	6486
110680072	17.0	16.3	43	6649	301	4.105	0.739	0.445	0.078	1	0.0	5287	5797
110680154	14.4	13.8	53	6521	322	3.904	0.779	0.515	0.114	161	0.0	6748	6787
110680190	15.8	15.1	44	6907	302	4.098	0.678	0.467	0.094	131	-83.0	5343	8770

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff	logg [dex]	Δ logg	M/H [dex]	Δ M/H	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110680245			48	6436	100	4.691	0.161	0.008	0.080	71	-83.0	5241	5747
110680435	15.2	14.4	62	6343	280	4.112	0.756	-0.116	0.098	31	0.0	6582	6134
110680457			45	5727	185	3.954	0.601	0.273	0.112	11	0.0	6585	5775
110680533	14.6	13.9	47	6204	306	4.192	0.635	0.289	0.115	53	0.0	6668	5665
110680712	13.2	12.3	46	5548	212	4.036	0.677	-0.257	0.116	1	0.0	6719	6916
110680846			31	12346	4304	3.390	1.101	0.303	0.424	1	-166.0	5200	5232
110680853			49	6168	109	4.155	0.207	0.028	0.075	101	0.0	5330	5757
110680884	14.2	12.9	34	5395	100	3.681	0.175	0.007	0.115	1	0.0	6836	6903
110680955	15.1	14.4	51	6763	276	3.906	0.820	0.070	0.107	1	0.0	6548	7240
110681097	15.6	14.4	41	5506	229	3.701	0.714	-0.092	0.102	1	-83.0	6619	7003
110681298			80	7535	302	4.169	0.694	0.504	0.108	151	0.0	6757	8554
110681305	14.6	14.0	58	6427	258	3.892	0.932	-0.315	0.114	1	-166.0	5372	6251
110681351	13.4	12.9	74	6763	260	3.834	0.914	-0.223	0.109	41	0.0	6624	7971
110681382	14.8	14.1	71	6258	250	3.569	0.950	-0.490	0.207	1	-83.0	6660	6412
110681429	15.3	14.5	51	6136	297	3.721	0.802	0.110	0.072	61	0.0	6556	5720
110681549			58	6737	262	3.850	0.903	-0.109	0.093	1	-83.0	6585	7665
110681749			55	5688	230	3.611	0.613	-0.180	0.114	27	-83.0	6593	5397
110681839	14.3	13.6	62	6808	103	4.530	0.222	0.074	0.080	43	0.0	6721	6855
110681935	14.9	13.7	61	14326	3976	2.999	1.041	0.759	0.168	1	-830.1	6866	8247
110681955	13.1	12.5	66	9128	2863	3.191	1.082	0.759	0.168	1	0.0	6587	7846
110681966			48	6037	308	3.900	0.650	0.373	0.094	161	0.0	5301	5691
110681975			84	7278	111	4.852	0.156	-0.020	0.115	1	-166.0	6809	8164
110682096	15.1	14.3	53	6436	261	3.723	0.935	-0.215	0.087	1	-83.0	6582	6483
110682252	14.0	12.9	37	5517	100	3.428	0.232	0.020	0.106	1	0.0	6575	5307
110682297	14.9	14.2	42	6114	100	3.864	0.246	-0.003	0.105	1	0.0	5302	6053
110682517	13.5	12.8	54	6140	284	4.034	0.809	-0.107	0.081	1	-83.0	6603	5721
110682562	15.0	14.4	60	7031	276	3.902	0.849	0.192	0.069	41	-83.0	5333	7902
110682589			63	7188	275	4.068	0.845	-0.024	0.161	127	-83.0	6673	8432
110682629	14.3	13.4	41	5404	242	4.494	0.417	-0.272	0.107	1	0.0	6700	8075
110682676	15.0	14.4	49	9866	4376	3.524	0.992	0.759	0.168	1	-83.0	5342	7082

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110682750	13.6	13.0	143	5812	2549	3.481	0.516	-0.556	0.335	41	0.0	6631	6348
110682754	15.0	14.2	45	5905	271	4.097	0.770	-0.206	0.095	1	0.0	6635	5626
110682934	13.8	12.6	33	5457	158	3.359	0.640	0.063	0.103	1	-83.0	6710	7231
110682946			48	6720	290	3.930	0.754	0.308	0.103	101	0.0	6751	6707
110683315	15.0	14.2	30	5286	226	4.091	0.433	0.057	0.129	11	83.0	6597	8537
110683366	15.6	14.5	32	5085	147	3.479	0.551	0.112	0.129	1	0.0	6669	6845
110683403			81	7749	109	4.696	0.246	-0.072	0.087	41	0.0	6932	8938
110683509			154	8160	447	4.304	0.605	-0.208	0.141	131	-83.0	7819	9539
110683842	14.3	13.7	51	6383	269	3.671	0.911	-0.162	0.098	1	-83.0	6586	6564
110683855			97	6828	289	3.945	0.799	0.001	0.091	133	0.0	6582	7575
110683894	14.9	13.6	36	5434	243	3.318	0.700	-0.176	0.131	1	-166.0	6674	6066
110683958			62	6944	271	4.003	0.842	0.094	0.087	1	0.0	6693	7742
110683974			46	5684	258	4.228	0.678	-0.189	0.127	1	0.0	6590	5608
110684000	15.3	14.5	53	6641	306	4.050	0.765	0.442	0.079	115	-83.0	6611	6541
110684088			53	6106	265	3.789	0.927	-0.291	0.093	1	0.0	5350	6105
110684207	13.0	12.7	91	13570	3690	3.993	0.863	0.759	0.168	1	-83.0	8075	10668
110684222	14.0	13.8	67	9198	3018	3.077	1.068	0.759	0.168	1	-83.0	6597	8486
110684275			43	6655	317	4.094	0.668	0.486	0.105	101	-83.0	6624	7457
110684320			30	5211	99	3.303	0.209	0.025	0.096	1	0.0	5212	5869
110684325	14.6	13.8	49	5859	173	3.935	0.608	-0.116	0.116	51	0.0	6689	5609
110684365	12.0	11.5	59	6679	292	3.938	0.808	0.300	0.101	151	0.0	6554	6432
110684450			35	5523	221	3.730	0.628	0.213	0.140	1	83.0	6616	6888
110684522			38	5877	243	3.936	0.624	0.094	0.109	43	0.0	6697	5659
110684554	16.3	15.7	60	6676	269	3.750	0.943	-0.370	0.151	1	0.0	6618	7535
110684623	15.2	14.5	53	6346	294	3.818	0.816	0.028	0.088	83	-83.0	5223	6550
110684679	16.7	15.9	42	6260	102	4.740	0.161	0.033	0.093	1	0.0	6732	5719
110684718	14.1	13.4	73	6522	261	3.715	0.894	-0.258	0.100	15	-83.0	6604	7536
110684740			62	6705	268	3.851	0.902	-0.078	0.088	1	0.0	6661	7641
110684934	14.8	14.2	48	9491	3836	3.238	1.087	0.759	0.168	1	-83.0	6679	8107
110685035			164	7996	382	4.371	0.563	0.394	0.069	191	-166.0	7296	8880

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110685060			78	8224	200	2.573	0.501	0.577	0.147	1	-83.0	6823	8137
110685092	15.4	14.2	39	5203	164	3.122	0.595	0.188	0.153	11	-83.0	6550	5327
110685180	13.4	12.6	38	5649	201	4.477	0.450	-0.221	0.130	11	-83.0	6747	6211
110685200	13.7	12.3	36	5454	103	3.540	0.191	0.255	0.131	1	-83.0	6698	6290
110685399			29	11927	4334	3.375	1.086	0.393	0.356	1	-913.1	6853	5355
110685544			61	6149	254	3.912	0.953	-0.388	0.170	41	-83.0	6615	5788
110685647	14.5	13.8	72	6642	300	3.984	0.740	-0.318	0.091	51	83.0	5364	6823
110685713			28	5288	185	3.199	0.576	0.307	0.136	1	-166.0	6710	7732
110685838			61	6681	269	4.131	0.623	0.306	0.073	77	0.0	6653	8074
110685902	14.8	14.0	32	6037	283	4.117	0.585	0.454	0.092	15	-83.0	6810	5364
110685971			71	7009	100	4.380	0.292	-0.012	0.114	21	0.0	6651	7887
110686021	13.3	12.9	74	6779	263	3.818	0.930	-0.236	0.101	1	-83.0	6629	7731
110686084	16.1	15.4	66	7064	100	3.858	0.115	0.387	0.067	123	0.0	6590	7956
110686134			55	6066	272	4.177	0.744	-0.184	0.101	81	-83.0	6549	5671
110686281			54	6313	114	4.553	0.196	0.023	0.104	1	-83.0	6634	6013
110686438	14.3	13.0	35	5301	125	3.118	0.596	0.088	0.132	7	-83.0	6811	6749
110686452			40	6324	347	3.713	0.832	0.406	0.080	31	0.0	5230	6164
110686508	13.7	12.7	31	5475	212	4.533	0.356	0.085	0.155	1	0.0	6803	7266
110686549	14.0	13.3	63	6217	253	3.626	0.942	-0.393	0.169	1	0.0	6607	6414
110686663	14.0	13.4	68	7683	310	4.249	0.661	0.461	0.090	1	0.0	6761	8506
110686765			52	6004	258	4.184	0.843	-0.451	0.191	1	0.0	6564	5627
110686836	15.1	14.3	41	5746	258	4.096	0.778	-0.396	0.158	11	0.0	6630	5628
110686876			46	6076	274	3.614	0.941	-0.164	0.096	1	-83.0	5276	5798
110687004			47	5561	238	3.658	0.753	-0.296	0.082	1	0.0	6651	6353
110687007			45	5532	257	3.881	0.786	-0.437	0.192	1	0.0	6669	5392
110687055			53	6733	308	4.068	0.775	0.323	0.068	61	83.0	5360	6539
110687271			57	6517	295	3.760	0.826	0.197	0.131	1	0.0	6573	6901
110687289	14.3	13.6	56	6566	115	4.569	0.227	0.029	0.081	1	83.0	6690	5791
110687301	15.0	14.4	100	7573	101	4.773	0.192	-0.009	0.106	181	-249.0	6914	8609
110687337	14.0	13.5	71	6813	278	3.692	0.919	-0.320	0.119	9	-83.0	6677	7737

Table B.1. continued.

CoID	<i>B</i> _{mag} [mag]	<i>V</i> _{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	<i>v_r</i> [km/s]	Teff CaK [K]	Teff Gband [K]
110687368			44	5803	253	4.355	0.618	-0.309	0.078	1	-83.0	6674	5314
110687416	15.0	14.4	55	7768	323	4.272	0.665	0.287	0.116	1	-83.0	6829	8167
110687541	15.1	14.4	45	5953	294	3.806	0.828	-0.103	0.096	1	0.0	6606	5672
110687567	15.0	14.3	72	6593	264	3.576	0.962	-0.467	0.203	61	-83.0	6679	8198
110687638			107	8572	494	4.371	0.537	0.160	0.091	181	-83.0	7496	9654
110687729			72	6736	274	3.819	0.931	-0.264	0.108	1	-83.0	6669	7672
110687736	14.2	13.5	68	5574	263	3.806	0.985	-1.278	0.320	1	-166.0	6651	5658
110687794			72	6575	276	3.847	0.951	-0.195	0.111	1	0.0	6598	6795
110687800			59	10204	4557	3.584	0.933	0.759	0.168	1	-166.0	6714	6273
110687838	17.1	16.3	39	13662	4189	3.237	1.103	0.325	0.572	1	0.0	6634	6484
110687862			49	5255	153	3.805	0.594	-0.393	0.175	11	0.0	6799	6283
110687879	15.6	15.0	90	7384	309	3.896	0.874	-0.181	0.128	1	-83.0	6847	8262
110687999			31	5334	248	4.032	0.505	0.239	0.145	1	0.0	6786	7512
110688055	15.7	14.9	46	6258	272	3.656	0.860	-0.144	0.086	45	0.0	5268	5775
110688275	15.1	14.4	49	6546	302	3.913	0.786	0.368	0.094	141	-83.0	6609	6456
110688301	15.2	14.4	45	5668	219	4.478	0.483	-0.520	0.213	11	-83.0	6681	6298
110688326			52	6370	101	4.411	0.187	-0.014	0.090	71	0.0	6638	5770
110688335	15.5	14.1	47	5307	190	3.636	0.734	-0.373	0.124	5	83.0	6605	6169
110688392	15.0	14.4	63	6523	269	3.649	0.973	-0.181	0.083	1	-83.0	6583	8146
110688461			57	6391	310	3.991	0.783	0.215	0.125	71	-83.0	6578	6140
110688518	14.9	14.3	69	7472	298	4.188	0.738	0.192	0.097	1	-83.0	6814	9005
110688554	15.0	14.3	63	6469	264	3.725	0.982	-0.238	0.116	1	-83.0	6606	7175
110688789	13.4	12.8	70	6644	259	3.647	0.983	-0.324	0.112	1	-83.0	6602	7403
110688794			65	6334	259	3.647	0.919	-0.257	0.098	11	83.0	6567	6289
110688815			41	5018	150	3.383	0.513	-0.372	0.147	1	0.0	6811	6221
110688901			41	13876	4137	3.171	1.084	0.759	0.168	1	830.1	6578	8112
110688971			65	9098	3148	3.199	1.085	0.759	0.168	1	0.0	5341	7816
110689025	16.3	15.6	39	6797	303	4.021	0.654	0.430	0.081	1	0.0	6734	7211
110689064			33	6677	290	3.945	0.755	0.343	0.129	1	0.0	5368	6965
110689089			35	5412	99	3.450	0.207	0.006	0.121	1	0.0	5303	7878

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110689097	16.7	15.9	56	6794	285	3.818	0.863	-0.127	0.091	71	-83.0	6829	8183
110689112	15.1	14.5	67	6867	332	4.095	0.765	0.305	0.086	115	0.0	6598	7710
110689133	14.3	13.0	32	5547	181	3.677	0.364	0.382	0.084	1	0.0	6664	6190
110689143	15.1	14.5	58	6847	273	3.705	0.934	-0.199	0.128	1	0.0	6646	7747
110689218			41	5980	229	4.349	0.559	0.282	0.127	75	0.0	5317	5250
110689365	14.2	13.6	64	6813	290	4.016	0.774	0.205	0.084	151	0.0	6551	7637
110689434	14.9	14.2	58	6436	271	4.027	0.812	-0.122	0.081	41	0.0	6674	6273
110689441	15.4	14.5	46	6287	295	3.936	0.779	0.156	0.081	1	0.0	6664	5738
110689458	13.7	12.5	33	5522	166	3.292	0.651	0.535	0.124	1	0.0	5308	6016
110689628	14.8	14.3	47	10039	4293	3.339	1.063	0.759	0.168	1	-83.0	6929	8506
110689646			25	10975	4438	3.475	1.100	0.066	0.982	1	-83.0	6705	5298
110689728			52	6473	306	3.980	0.741	0.211	0.123	31	0.0	6694	6049
110689731	14.9	14.2	50	5941	278	4.102	0.733	-0.120	0.130	51	0.0	6705	5668
110689772			46	6097	101	4.499	0.197	0.137	0.127	5	83.0	6557	5435
110689824	12.3	11.7	66	6710	262	3.887	0.895	-0.136	0.127	11	0.0	6673	8138
110689847	14.9	14.3	65	6844	269	3.871	0.895	-0.172	0.085	1	-83.0	6599	8092
110689860			97	8023	376	4.107	0.725	0.295	0.087	161	-83.0	6947	9277
110689884	16.5	15.6	39	6199	101	4.001	0.183	-0.014	0.107	1	0.0	6600	6121
110690001	15.0	14.3	49	5765	100	4.064	0.210	-0.027	0.121	11	0.0	6549	5610
110690018	17.0	16.2	35	9912	4568	3.466	1.011	0.759	0.168	1	-83.0	6676	8704
110690040			40	5587	98	3.500	0.216	-0.012	0.134	1	-83.0	6562	5205
110690063	15.0	14.3	59	6423	100	4.055	0.253	-0.012	0.066	91	-83.0	5351	6517
110690148			42	10280	4538	2.142	0.857	0.227	0.394	1	-83.0	5269	8532
110690192			58	6189	182	4.200	0.437	0.294	0.090	51	-83.0	5295	5782
110690231			30	12816	4340	3.423	1.102	0.430	0.584	1	-83.0	6981	5557
110690290			54	6946	269	4.067	0.739	0.189	0.103	91	0.0	6569	7346
110690339			47	5665	253	4.094	0.790	-0.368	0.101	1	0.0	6624	5609
110690343			50	5358	230	4.118	0.666	-0.490	0.214	11	0.0	6601	6546
110690514			53	6279	270	3.991	0.809	-0.124	0.083	31	0.0	6671	6347
110690625			47	6087	292	4.015	0.713	0.234	0.083	41	0.0	6597	5777

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110690684			58	6126	250	4.020	0.797	-0.205	0.100	1	0.0	5255	5792
110690752			31	5691	180	3.477	0.674	0.382	0.094	1	0.0	5324	6679
110690767			79	6374	276	4.114	0.803	-0.176	0.076	1	0.0	6607	5752
110690902			41	6192	306	3.919	0.752	0.207	0.130	1	83.0	6570	5586
110690912			48	5673	186	3.534	0.633	0.274	0.105	11	-83.0	6637	6332
110690995			74	6783	295	4.069	0.747	0.083	0.108	191	83.0	6557	6493
110690999			60	6992	274	3.997	0.814	0.063	0.090	41	0.0	6663	7828
110691020			145	8313	451	4.441	0.501	0.096	0.103	121	0.0	7752	9585
110691139			110	8161	413	4.372	0.607	0.183	0.121	191	-83.0	7921	9767
110691350			40	6208	319	3.761	0.698	0.363	0.089	83	0.0	6646	5779
110691402			50	6141	268	3.858	0.917	-0.283	0.109	1	-83.0	6622	5748
110691549			54	9201	3426	3.225	1.085	0.759	0.168	1	-83.0	6622	8243
110691663			29	5252	135	2.989	0.610	0.062	0.100	11	0.0	6668	6148
110691693			32	5303	208	3.596	0.598	0.167	0.154	1	-83.0	6663	7717
110691785			45	5930	198	3.916	0.470	0.381	0.091	1	0.0	6558	5667
110691821			72	7245	327	4.013	0.767	0.261	0.067	53	-83.0	6666	9321
110691860			41	5856	286	3.869	0.642	0.222	0.128	11	-83.0	6665	5605
110691951			42	5994	257	4.272	0.681	-0.164	0.122	1	0.0	6598	5575
110691975			37	5988	108	4.141	0.224	0.031	0.108	1	0.0	5238	5708
110692134			77	7201	316	4.173	0.701	0.189	0.068	93	-83.0	6775	8116
110692187			45	6304	271	3.808	0.806	-0.073	0.110	1	-83.0	5239	6435
110692479			29	5404	128	3.196	0.630	0.178	0.134	1	-166.0	5353	6202
110692542			55	6312	293	3.881	0.819	0.123	0.092	1	0.0	6588	6354
110692626			57	6184	250	4.340	0.841	-0.160	0.098	1	0.0	6638	5601
110692855			41	6186	261	3.787	0.711	0.127	0.103	1	-83.0	6658	5268
110692891			28	12233	4324	3.312	1.089	0.481	0.451	1	-912.6	6650	8274
110692929			71	6646	265	3.590	0.966	-0.370	0.145	1	-83.0	6626	8233
110692971			38	5533	96	3.611	0.212	0.031	0.098	1	-83.0	5315	6546
110693050			42	5296	100	3.315	0.432	-0.186	0.116	3	0.0	6711	7732
110693429			43	5911	265	4.174	0.753	-0.205	0.098	1	-83.0	6722	5686

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v _{ini} [km/s]	v _r [km/s]	Teff CaK [K]	Teff Gband [K]
110693437			36	5851	259	4.234	0.583	0.203	0.129	1	0.0	6763	5305
110693448			41	7110	297	4.016	0.792	0.298	0.103	1	0.0	6549	7976
110693458			58	6320	273	3.659	0.932	-0.235	0.112	1	0.0	6609	6878
110693644			89	7912	392	4.159	0.680	0.120	0.085	1	-83.0	6894	9183
110693794			32	5496	246	4.256	0.473	0.195	0.160	11	0.0	6697	5386
110693802			43	6134	284	4.103	0.713	0.133	0.080	101	83.0	6682	5631
110693831			49	6720	103	4.312	0.299	0.028	0.111	1	0.0	6571	8304
110693844			52	6634	296	4.086	0.775	0.086	0.101	101	83.0	5201	6723
110693984			52	5955	119	4.262	0.266	-0.014	0.104	151	0.0	6801	5602
110694157			61	6387	252	4.227	0.681	-0.033	0.096	63	0.0	6669	5663
110694161			39	6030	269	4.184	0.579	0.262	0.129	1	0.0	6695	5374
110694365			106	7500	324	4.299	0.648	0.377	0.086	81	0.0	6744	8566
110694396			57	6825	270	3.851	0.839	-0.100	0.094	1	-83.0	5360	7314
110694657			57	6999	306	4.204	0.670	0.291	0.119	71	0.0	6665	7848
110694712			35	13188	4243	3.272	1.087	0.351	0.386	1	-83.0	6860	6016
110694790			111	8211	456	4.203	0.658	-0.119	0.119	81	-83.0	7236	9476
110694842			46	9458	3897	3.249	1.094	0.759	0.168	1	-83.0	6716	7869
110694880			42	6226	271	3.737	0.894	-0.208	0.106	1	-83.0	5350	6091
110694951			58	6165	264	3.933	0.614	0.303	0.102	191	-83.0	5331	5758
110694990			50	6731	322	4.189	0.692	0.501	0.107	153	0.0	6835	6716
110694999			58	9020	3217	3.235	1.083	0.759	0.168	1	0.0	6642	8870
110695004			39	5969	259	4.223	0.762	-0.265	0.093	1	-83.0	6634	5661
110695051			119	8145	357	4.111	0.760	0.049	0.077	1	-83.0	6920	7815
110695056			61	6876	298	4.158	0.726	0.303	0.089	141	0.0	5359	7731
110695106			43	7862	340	4.174	0.745	0.499	0.110	1	0.0	6811	8779
110695116			55	5503	123	3.890	0.496	-0.369	0.131	1	83.0	6628	6798
110695132			39	5954	206	4.288	0.462	0.521	0.119	1	0.0	6737	5990
110695241			44	5087	121	4.639	0.319	-1.617	0.249	11	83.0	5369	7755
110695355			53	6122	280	3.888	0.867	-0.190	0.082	1	0.0	6627	6059
110695380			100	8051	361	4.303	0.577	0.203	0.101	51	0.0	6886	9063

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110695405			46	6350	299	4.026	0.749	0.388	0.084	163	0.0	6642	6111
110695453			78	6025	177	3.855	0.605	0.364	0.108	83	83.0	6549	5749
110695513			62	6736	319	4.138	0.685	0.300	0.090	141	0.0	6759	6815
110695547			64	6715	301	4.081	0.768	0.182	0.097	141	0.0	6673	7044
110695581			63	6715	275	3.785	0.849	0.094	0.093	1	0.0	6621	7463
110695700			45	6160	263	3.763	0.925	-0.398	0.176	1	83.0	6652	5741
110695768			55	6409	293	4.079	0.784	0.088	0.106	1	0.0	6681	5774
110695903			61	6683	313	4.151	0.672	0.375	0.086	91	-83.0	6583	6881
110696023			56	6691	267	3.865	0.774	-0.115	0.097	21	-83.0	6619	7238
110696024			50	6127	102	4.277	0.202	0.010	0.116	1	-83.0	5335	5684
110696076			120	7889	113	4.818	0.184	0.020	0.123	191	0.0	7039	9058
110696084			128	15927	2768	2.278	0.614	0.702	0.180	35	249.0	6848	5383
110696100			57	6329	252	4.058	0.785	-0.072	0.076	1	0.0	6567	6445
110696110			70	6367	270	3.671	0.895	-0.226	0.116	41	0.0	6552	6959
110696306			65	7892	346	4.135	0.720	0.281	0.109	1	-83.0	6808	8522
110696351			98	15299	3436	3.602	0.980	0.759	0.168	1	-83.0	7966	11451
110696607			68	7549	317	4.343	0.566	0.378	0.087	131	0.0	6620	8858
110696796			37	6094	100	4.787	0.150	0.070	0.140	39	0.0	6652	5493
110696861			51	5727	252	4.236	0.717	-0.483	0.204	1	-166.0	5365	5378
110696931			43	6049	273	3.828	0.619	0.414	0.081	61	-83.0	6712	5739
110696935			50	6294	101	4.341	0.219	-0.036	0.077	71	0.0	6550	5792
110696939			60	7310	286	4.030	0.784	0.194	0.096	61	-83.0	6677	7870
110696953			40	5861	276	3.737	0.820	-0.137	0.122	11	0.0	6602	5706
110696983			62	6359	260	3.706	0.935	-0.285	0.084	1	0.0	6669	6920
110697007			57	6203	267	3.881	0.918	-0.255	0.105	17	0.0	6581	6310
110697056			91	7706	126	4.779	0.190	-0.028	0.086	31	0.0	6849	9749
110697095			63	6562	262	3.692	0.964	-0.213	0.113	1	-83.0	6616	7357
110697218			151	7820	104	3.736	0.541	-0.054	0.194	191	-83.0	6834	9487
110697288			42	5943	269	4.226	0.693	-0.140	0.097	1	-83.0	6626	5616
110697294			59	6446	265	4.055	0.957	-0.354	0.111	49	83.0	6636	6139

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110697399			96	8141	124	4.622	0.277	-0.002	0.086	1	0.0	6995	9452
110697493			60	6856	99	3.806	0.338	0.021	0.105	1	-83.0	6557	8639
110697500			53	6049	298	3.799	0.729	0.486	0.102	141	0.0	6618	6037
110697507			77	7344	101	4.758	0.199	0.045	0.140	27	0.0	6855	9434
110697602			73	6282	251	3.750	0.963	-0.331	0.102	45	0.0	6570	6566
110697691			51	6357	288	3.445	0.794	0.148	0.095	3	0.0	5316	6785
110697753			37	5584	167	3.170	0.625	0.238	0.127	3	-83.0	6883	5365
110740285	14.5	14.0	61	6975	285	3.918	0.832	0.136	0.098	11	0.0	6590	8390
110740343	15.7	14.8	37	6081	296	4.083	0.669	0.276	0.088	1	0.0	6728	5724
110740520	14.3	13.7	28	9172	4796	3.400	1.091	0.759	0.168	1	0.0	6587	6427
110740556	14.1	13.3	37	5679	103	4.356	0.157	0.046	0.138	1	-83.0	6705	5202
110740656	14.5	13.8	62	6551	273	3.933	0.761	-0.139	0.119	51	-83.0	6568	6563
110740682	14.3	13.9	194	14551	467	4.857	0.151	0.000	0.050	121	-83.0	8225	9800
110740903	16.6	15.9	34	6377	304	4.301	0.603	0.368	0.087	1	0.0	5275	5275
110741030	14.1	13.4	49	6379	295	4.110	0.720	0.220	0.140	1	0.0	6734	6253
110741160	14.1	13.1	33	5485	247	3.813	0.615	-0.110	0.107	1	0.0	6577	7686
110741197	15.7	15.0	51	6116	279	3.851	0.864	-0.191	0.099	1	-83.0	6552	5754
110741214	16.2	15.5	50	6836	102	4.518	0.247	0.008	0.104	1	-83.0	6596	7013
110741295	14.5	13.8	56	6468	105	4.176	0.238	0.015	0.078	1	-83.0	6641	6107
110741303	13.4	12.7	51	6190	274	3.872	0.835	-0.072	0.098	1	-83.0	6591	5731
110741480			50	6259	290	3.912	0.744	0.075	0.085	1	0.0	6571	5789
110741483	14.0	13.6	70	7563	308	4.138	0.801	0.242	0.091	1	-83.0	6839	8996
110741524			99	8754	237	2.328	0.302	0.491	0.105	1	-83.0	6925	9856
110741609	15.4	14.4	38	5645	285	3.887	0.679	-0.106	0.112	1	83.0	6650	5215
110741638	15.4	14.5	51	6027	270	4.110	0.688	-0.132	0.083	1	0.0	6738	5636
110741662	15.2	14.5	64	6656	263	3.694	0.930	-0.223	0.116	1	-83.0	6615	7666
110741749	15.2	14.4	32	5835	269	4.165	0.576	0.354	0.135	1	0.0	5260	5412
110741824			48	5171	158	2.993	0.633	-0.021	0.130	3	0.0	5320	5430
110741836	14.9	13.9	45	5664	188	4.255	0.428	-0.167	0.091	1	-83.0	6649	6159
110741858	15.1	14.3	36	5954	240	4.015	0.581	0.303	0.136	13	-83.0	6807	5249

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log g [dex]	Δ log g [dex]	M/H [dex]	Δ M/H [dex]	$vsini$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110741895	15.3	14.2	39	5775	237	4.107	0.615	0.062	0.132	1	-83.0	6662	5246
110742051			33	5418	119	2.949	0.403	0.285	0.138	1	0.0	6766	7408
110742148	13.4	12.8	67	6716	280	3.830	0.826	0.094	0.072	1	0.0	6621	7724
110742156	13.9	13.2	69	6264	267	3.776	0.882	-0.199	0.087	81	0.0	6553	6065
110742289	14.5	13.9	127	8205	345	3.379	0.720	-0.098	0.131	1	-83.0	7556	10278
110742337	14.9	14.1	41	6051	278	3.882	0.709	0.503	0.110	119	-83.0	5263	5617
110742360	13.5	12.9	44	6371	315	3.790	0.728	0.428	0.070	161	0.0	5313	6287
110742427	16.8	16.1	48	6116	221	4.299	0.544	0.444	0.079	85	0.0	6798	5768
110742521	14.9	14.1	61	9079	3069	3.231	1.084	0.759	0.168	1	-83.0	6692	8200
110742545	12.9	12.5	66	9115	3004	3.141	1.076	0.759	0.168	1	-83.0	6624	8601
110742568	14.4	13.8	55	6349	265	3.806	0.918	-0.168	0.076	1	0.0	6609	7042
110742579	14.4	12.8	23	5117	177	3.443	0.511	0.511	0.112	1	-83.0	6832	8296
110742620	14.8	14.0	45	6328	315	3.880	0.746	0.296	0.096	31	0.0	6559	6502
110742698	15.5	14.1	28	5251	201	3.473	0.534	0.145	0.105	1	0.0	6703	6912
110742723	15.1	14.4	44	5921	259	4.093	0.842	-0.309	0.083	1	83.0	6598	5721
110742765	14.2	13.8	113	8059	374	4.361	0.553	-0.031	0.107	5	-83.0	6961	8319
110742795			74	6813	265	3.757	0.956	-0.212	0.122	1	-83.0	6576	8381
110742928	14.1	13.6	82	7816	323	4.148	0.713	0.296	0.084	61	0.0	6770	8656
110742937	13.5	13.2	145	9575	489	3.730	0.339	0.382	0.095	191	0.0	7860	10232
110743026	13.3	12.7	50	6737	290	3.874	0.793	0.334	0.100	1	0.0	6571	7025
110743081	14.0	13.4	64	6766	102	4.328	0.252	0.017	0.089	1	0.0	6807	7335
110743119	14.6	13.7	42	5941	297	3.920	0.670	0.289	0.141	1	0.0	5218	5693
110743386	14.8	14.1	45	6762	290	3.964	0.768	0.262	0.104	71	0.0	6680	6829
110743442	14.4	13.8	56	6947	280	3.922	0.856	0.122	0.106	1	0.0	6689	8598
110743555	14.3	13.7	55	6382	319	3.879	0.725	0.546	0.127	171	-83.0	5344	6711
110743656	14.7	14.0	58	6218	261	3.645	0.938	-0.452	0.198	121	0.0	6568	5776
110743683	NaN	12.5	73	6867	264	3.839	0.922	-0.237	0.098	1	-83.0	6626	7307
110743696	14.8	14.1	48	6198	100	4.418	0.210	-0.028	0.092	81	-83.0	6673	5765
110743772	14.5	13.9	60	6440	257	3.661	0.932	-0.349	0.132	21	-83.0	6572	6686
110744018	15.1	14.4	49	6113	247	3.897	0.920	-0.353	0.134	1	-83.0	6550	5757

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110744038	15.1	14.3	45	5616	165	4.075	0.511	0.149	0.103	11	83.0	6693	5937
110744064	14.6	14.1	65	7723	305	4.209	0.725	0.096	0.103	1	-83.0	6804	8218
110744107	14.1	12.9	44	5967	194	4.662	0.193	0.096	0.091	1	-83.0	6782	5309
110744123	14.7	14.0	55	6113	100	4.076	0.201	-0.012	0.068	141	-83.0	6587	5787
110744148	14.7	14.0	79	6778	5200	3.293	0.982	-0.522	0.266	5	0.0	5354	5443
110744170	16.2	15.4	38	6346	307	3.942	0.705	0.226	0.099	95	0.0	6626	6747
110744174	15.1	13.8	31	5251	156	3.681	0.509	0.164	0.131	11	-83.0	6767	6321
110744226	13.3	12.4	39	5237	202	4.386	0.406	-0.289	0.122	11	0.0	5248	8205
110744250	15.2	14.3	32	5315	177	4.319	0.327	0.139	0.160	1	0.0	5369	9034
110744262	13.9	12.9	40	5404	147	3.451	0.625	0.029	0.088	3	-83.0	6852	6251
110744359	14.9	14.1	46	5498	180	3.984	0.646	0.057	0.122	9	-83.0	6745	5364
110744360	15.3	14.6	43	6418	100	3.680	0.237	-0.041	0.128	1	-83.0	5313	6939
110744374	15.3	14.8	63	7106	277	4.108	0.742	0.082	0.098	1	-83.0	6821	7962
110744388	12.3	12.1	63	7548	254	4.351	0.569	0.467	0.094	1	0.0	6871	7914
110744450	14.9	13.6	34	5379	178	3.533	0.472	0.331	0.130	1	0.0	6562	6001
110744588	15.1	14.4	43	6197	281	3.971	0.799	-0.089	0.090	1	0.0	6634	6070
110744601	15.5	14.9	65	6729	269	3.800	0.878	-0.179	0.092	1	-166.0	6651	7350
110744637	14.7	14.1	50	6227	261	3.898	0.877	-0.221	0.114	1	-83.0	6683	5768
110744667	12.9	12.4	61	6819	296	4.018	0.760	0.378	0.079	131	-83.0	6635	7191
110744671	NaN	12.7	45	5904	280	4.006	0.704	0.072	0.124	61	0.0	5262	5654
110744762	14.1	13.1	35	5541	261	3.551	0.691	0.148	0.115	1	-83.0	6702	5625
110744809			82	7634	316	4.255	0.683	0.166	0.074	91	0.0	6885	8638
110744817	13.0	11.6	47	5355	227	4.024	0.672	-0.482	0.206	11	-83.0	6668	6326
110744939			45	5754	268	4.084	0.709	-0.212	0.115	11	0.0	6579	5639
110744984			49	6254	277	3.947	0.832	-0.067	0.124	1	0.0	6657	6249
110744993	15.9	14.4	33	5482	100	2.024	0.107	0.454	0.084	1	-166.0	5314	5972
110745005	15.4	14.8	51	6618	264	3.965	0.767	-0.117	0.098	1	0.0	5287	6922
110745110			137	8316	489	4.175	0.583	-0.124	0.144	119	-83.0	7904	8875
110745126	15.0	14.3	42	6381	296	3.877	0.724	0.522	0.118	121	-83.0	6742	6231
110745154			70	10030	3500	3.082	0.960	0.759	0.168	41	-83.0	7047	9523

Table B.1. continued.

ColD	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110745161	16.0	15.3	58	7049	282	3.999	0.814	0.187	0.078	61	0.0	6649	7971
110745189	13.1	12.7	97	7947	116	4.789	0.205	0.017	0.105	1	-83.0	6938	8908
110745209	14.3	13.8	64	6866	101	4.287	0.263	0.001	0.112	71	0.0	6656	7729
110745216	14.1	13.5	53	6279	286	4.076	0.722	0.116	0.100	111	0.0	6643	5783
110745232	13.6	12.4	43	5503	272	3.531	0.746	-0.169	0.100	1	-166.0	6551	6173
110745246	15.7	14.5	37	5332	100	2.950	0.421	0.072	0.129	11	0.0	6626	6239
110745277	17.3	16.1	51	6855	293	4.175	0.707	0.480	0.094	87	-166.0	6869	6512
110745286			38	5512	226	3.727	0.658	-0.047	0.105	3	0.0	6849	5895
110745358	15.8	14.2	30	5019	134	3.258	0.571	0.119	0.112	1	-83.0	5359	6351
110745417	13.9	13.4	72	7012	108	4.524	0.291	0.026	0.103	1	0.0	6613	8442
110745460	17.0	16.1	35	6278	295	4.040	0.733	0.184	0.096	1	-83.0	6703	5702
110745484	14.7	13.5	36	5266	230	3.230	0.687	-0.138	0.099	11	-83.0	6739	6716
110745509	15.2	14.4	47	6307	311	3.833	0.770	0.429	0.070	131	-83.0	5209	5766
110745602	14.3	13.7	85	6385	265	3.724	0.939	-0.289	0.092	151	0.0	6625	6621
110745605	13.6	13.0	55	6432	303	3.972	0.746	0.287	0.097	131	0.0	6709	5756
110745640			78	8328	420	4.159	0.639	0.081	0.100	1	-83.0	6957	9014
110745646	14.8	14.1	43	6037	286	4.213	0.645	0.092	0.122	51	83.0	6695	5273
110745668			40	5585	269	3.502	0.717	-0.103	0.102	1	-83.0	6588	5924
110745714			66	6308	256	3.405	0.970	-0.356	0.125	1	-83.0	6588	6807
110745732	15.7	15.0	41	6605	298	3.798	0.790	0.373	0.096	1	-83.0	6564	6736
110745774	16.2	15.5	42	5997	305	3.546	0.709	0.083	0.089	189	-83.0	5309	5770
110745887	15.1	14.5	57	6928	100	4.417	0.268	-0.010	0.108	71	-83.0	6642	8390
110745897			29	5263	152	3.477	0.535	0.303	0.140	1	-83.0	6728	7934
110745909	15.7	15.0	39	5798	274	3.881	0.782	-0.065	0.106	1	0.0	6693	5658
110746006	16.9	16.1	25	8707	4654	3.410	1.091	0.984	0.332	1	0.0	6628	10611
110746044	14.8	14.3	42	7287	300	4.367	0.571	0.539	0.125	1	-83.0	6846	9848
110746104			51	6279	116	3.965	0.286	-0.028	0.100	1	-83.0	6595	6359
110746278	14.7	14.0	67	5940	258	3.814	0.934	-0.486	0.207	141	-83.0	6596	5785
110746283	16.2	15.4	25	6709	312	4.088	0.673	0.819	0.253	73	-83.0	6804	6962
110746287	15.0	14.3	62	6126	250	3.527	0.967	-0.419	0.187	1	0.0	6556	6630

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110746328	14.6	13.8	49	6208	278	3.783	0.838	-0.088	0.096	1	0.0	6615	6075
110746436	15.4	14.4	45	5347	141	4.175	0.465	-0.172	0.116	7	0.0	6638	7506
110746506	15.1	14.4	54	7160	287	4.123	0.693	0.212	0.115	1	0.0	6666	8530
110746547	14.7	14.0	71	6626	261	3.922	0.778	-0.136	0.087	1	-83.0	6623	6828
110746552	14.9	14.2	45	6203	267	4.097	0.798	-0.061	0.080	1	0.0	6659	5775
110746597	13.7	12.4	34	5132	142	3.179	0.511	0.225	0.124	1	0.0	6811	7809
110746635			69	6301	270	3.983	0.792	-0.096	0.081	51	-83.0	6587	6162
110746661	15.4	14.0	34	5469	251	3.425	0.726	-0.134	0.122	1	0.0	6644	5881
110746711	14.0	12.9	50	5240	100	2.283	0.261	-0.390	0.167	11	0.0	6672	6545
110746771	14.2	13.5	60	5967	271	3.744	0.945	-0.393	0.176	45	-83.0	5272	5732
110746820	13.7	13.1	103	15687	2558	2.166	0.718	0.759	0.168	161	83.0	5362	6180
110746876	15.1	14.5	61	6524	278	3.813	0.793	-0.132	0.084	1	0.0	5249	7091
110746896	16.8	15.9	54	6908	274	4.024	0.724	-0.133	0.125	1	-83.0	5315	7705
110746966			56	6209	245	4.229	0.767	-0.292	0.100	1	0.0	6628	5678
110747105	12.9	11.7	30	5143	99	3.272	0.195	0.006	0.107	1	-83.0	6601	6841
110747141	16.5	15.7	38	5712	275	3.895	0.694	0.100	0.097	11	0.0	5354	5627
110747151	14.4	13.8	84	6385	260	3.829	0.921	-0.482	0.228	191	-83.0	6626	5787
110747153	14.1	13.6	60	6773	101	4.250	0.274	0.034	0.094	1	-83.0	6581	7392
110747181	14.6	13.7	47	5344	227	4.330	0.509	-0.498	0.209	11	0.0	6698	6508
110747270	15.1	14.3	39	5656	248	4.432	0.490	-0.074	0.128	1	0.0	6593	6961
110747342	14.8	13.4	25	11713	4415	3.357	1.091	0.334	0.479	1	-913.1	6932	5459
110747368	13.5	13.1	95	9293	401	4.117	0.352	0.495	0.109	101	-83.0	7517	10536
110747474	14.8	14.1	56	6366	310	3.956	0.824	0.143	0.107	1	0.0	6625	6143
110747486	16.4	15.8	49	6813	261	3.785	0.938	-0.201	0.104	1	-83.0	6575	7826
110747489	13.3	12.7	62	6273	251	3.888	0.971	-0.422	0.182	1	-83.0	6626	5764
110747536	16.1	15.3	46	6449	288	3.910	0.810	0.054	0.090	1	-83.0	6614	6303
110747607			69	6522	270	3.802	0.862	-0.204	0.082	1	0.0	5263	6766
110747613	12.9	12.7	130	10747	587	4.273	0.312	0.534	0.123	1	-83.0	8163	10460
110747615	15.0	14.4	48	7010	277	3.943	0.830	0.100	0.101	5	-83.0	6655	7854
110747638	14.1	13.4	60	5972	250	4.013	0.901	-0.429	0.185	1	0.0	6582	5708

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log g [dex]	Δ log g [dex]	M/H [dex]	Δ M/H [dex]	$vsini$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110747648	14.0	13.4	56	6426	305	3.989	0.726	0.313	0.091	153	-83.0	5339	6045
110747696	14.0	13.3	49	5715	257	4.253	0.636	-0.162	0.117	1	-83.0	6629	5347
110747703	14.9	14.2	54	6363	271	3.750	0.817	-0.081	0.098	1	-83.0	6666	6677
110747714	14.7	13.6	28	12347	4304	3.311	1.088	0.887	0.457	1	-913.1	5269	8706
110747808	14.4	13.4	42	5667	101	3.664	0.188	-0.033	0.085	11	0.0	6636	6163
110747989	14.9	14.2	58	6828	267	3.867	0.847	-0.088	0.094	1	0.0	6679	6678
110748004	15.3	14.6	52	6328	286	4.044	0.738	0.207	0.104	141	-83.0	6565	5789
110748115	15.7	15.0	57	6388	260	3.634	0.941	-0.228	0.090	1	-166.0	6686	6297
110748157	15.9	15.3	64	6684	303	3.955	0.798	-0.116	0.128	181	-249.0	5300	6749
110748164	14.6	13.5	48	5544	180	3.647	0.527	-0.095	0.116	1	-83.0	6610	5900
110748259	14.9	14.0	38	5745	190	4.088	0.407	0.308	0.121	1	0.0	6655	6564
110748265	14.4	13.9	70	6172	267	3.874	0.879	-0.330	0.091	151	0.0	6608	6333
110748326	15.0	14.4	68	6807	277	3.837	0.843	0.071	0.073	121	-83.0	6643	8522
110748343	15.5	14.3	30	5449	249	3.408	0.620	0.210	0.118	1	-83.0	6776	8366
110748582	16.2	15.4	45	9136	4704	3.566	0.998	0.759	0.168	1	-83.0	6654	7134
110748597	14.9	14.3	44	6447	285	3.904	0.807	0.102	0.109	1	0.0	6571	6543
110748658	15.2	14.5	48	6193	107	4.510	0.195	0.002	0.082	1	-83.0	6583	5673
110748734			57	6269	274	3.706	0.884	-0.265	0.088	25	-166.0	5293	5761
110748769	15.0	14.5	64	6811	266	3.785	0.879	-0.139	0.144	1	-83.0	6769	10178
110748815	15.0	14.4	60	6329	258	3.762	0.908	-0.217	0.103	1	-83.0	6647	6333
110748922	14.4	13.6	48	6413	275	3.877	0.796	-0.112	0.095	1	0.0	6593	6108
110748927	14.3	13.7	112	7900	344	4.136	0.748	-0.189	0.110	1	-83.0	7042	9134
110748981	13.5	12.4	52	13741	4472	3.998	0.736	0.578	0.518	1	-83.0	5275	6731
110749091	15.0	14.3	46	5751	264	4.131	0.689	-0.089	0.124	11	-83.0	6679	5667
110749139	16.4	15.7	39	6185	100	4.220	0.219	0.016	0.115	1	0.0	5234	6075
110749182	14.5	14.0	58	7518	273	4.592	0.320	0.439	0.076	121	-83.0	6794	9467
110749200	13.9	13.0	31	5037	101	4.087	0.152	0.041	0.169	11	0.0	6569	8070
110749334	14.6	14.0	102	6853	277	3.856	0.900	-0.263	0.134	127	-83.0	6680	8046
110749349	15.1	14.4	58	6234	282	3.969	0.799	-0.123	0.097	1	0.0	6649	5749
110749405	15.0	14.2	49	5577	183	4.210	0.619	-0.323	0.108	1	-83.0	6550	6473

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110749455	14.8	14.0	48	6258	100	4.483	0.200	0.032	0.116	1	-83.0	6598	5785
110749483	14.4	13.7	52	6148	234	4.307	0.769	-0.258	0.101	1	0.0	5338	5704
110749526	14.8	14.1	48	5867	299	3.888	0.757	-0.211	0.088	45	0.0	6711	5708
110749548	13.0	12.3	52	5849	262	4.209	0.818	-0.722	0.378	21	-166.0	5350	5751
110749556	15.1	14.5	50	6268	265	3.887	0.917	-0.219	0.087	1	-83.0	5357	6048
110749645	14.1	13.4	43	5960	100	4.575	0.194	-0.007	0.086	1	0.0	6744	5372
110749688	15.9	15.3	56	8038	372	4.455	0.537	0.511	0.114	1	-83.0	6942	8999
110749689	15.2	14.4	45	5961	308	3.623	0.701	0.283	0.123	171	0.0	6611	5750
110749697			66	6564	256	3.668	0.953	-0.184	0.116	1	-83.0	6639	7236
110749735	13.9	12.6	34	5128	144	3.196	0.554	-0.167	0.111	11	0.0	5376	7114
110749740	15.0	14.4	60	6622	265	3.867	0.782	-0.135	0.084	1	-83.0	6633	7389
110749792	15.1	14.5	53	6407	270	3.854	0.841	-0.110	0.084	1	-83.0	6584	6453
110749882			53	5601	180	4.129	0.706	-0.403	0.185	1	-83.0	6606	5246
110749888	14.8	14.3	68	8134	373	4.234	0.655	0.154	0.100	1	-83.0	6913	8689
110749904	14.0	12.9	33	5557	168	3.652	0.553	0.489	0.106	3	-83.0	5216	5957
110749919	14.5	13.8	75	6666	300	4.051	0.718	0.268	0.098	181	-83.0	5260	7273
110749949	14.3	13.5	47	5878	263	4.162	0.665	-0.226	0.122	1	0.0	6641	5275
110749991	14.9	14.3	59	6322	303	4.062	0.699	0.224	0.090	129	-83.0	6562	5755
110749997			49	6162	283	4.274	0.675	0.128	0.102	91	-83.0	6559	5684
110750011			66	6892	101	4.369	0.251	0.053	0.085	101	0.0	6628	7478
110750033	14.9	14.2	53	6358	260	3.800	0.897	-0.166	0.093	1	-83.0	6727	6279
110750126	13.8	13.0	44	5840	238	4.512	0.506	-0.229	0.122	7	0.0	6653	5875
110750137	13.0	12.3	32	5544	222	3.860	0.700	-0.139	0.129	1	83.0	6789	5240
110750149	14.7	13.8	34	5372	208	4.348	0.424	0.051	0.148	11	-83.0	6725	7546
110750185	15.5	14.9	52	6811	288	3.994	0.771	0.196	0.105	101	0.0	5205	7143
110750191			66	7080	291	4.094	0.717	0.365	0.081	151	-83.0	6678	7071
110750214	15.2	14.5	49	6393	308	3.900	0.751	0.271	0.102	151	0.0	6634	6156
110750243	13.6	12.9	60	6940	288	4.066	0.765	0.193	0.100	51	0.0	6749	8227
110750266			119	7878	337	4.016	0.802	0.095	0.087	111	-83.0	6921	8874
110750294	14.1	13.5	75	6603	261	3.785	0.969	-0.374	0.159	1	-83.0	6700	7052

Table B.1. continued.

ColD	<i>B</i> <i>mag</i> [mag]	<i>V</i> <i>mag</i> [mag]	S/N	Teff [K]	Δ Teff [K]	log <i>g</i> [dex]	Δ log <i>g</i> [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	<i>v_r</i> [km/s]	Teff CaK [K]	Teff Gband [K]
110750325	14.8	14.0	39	5868	191	4.517	0.322	0.241	0.123	19	-83.0	6716	5260
110750373	14.1	13.6	80	6933	100	4.376	0.269	-0.000	0.106	61	0.0	6599	8352
110750415	14.7	14.2	65	8127	382	4.506	0.477	0.402	0.074	1	-83.0	7067	8665
110750436	15.2	14.5	52	6276	258	3.977	0.833	-0.098	0.091	1	0.0	6605	5761
110750468	14.7	13.9	38	5671	258	4.193	0.556	0.287	0.122	1	0.0	6568	5349
110750475	15.1	14.5	55	6242	283	3.780	0.858	-0.238	0.117	51	-83.0	6662	6243
110750483			69	6291	265	3.817	0.892	-0.325	0.099	41	-83.0	6642	5786
110750507			49	5832	268	4.075	0.730	-0.333	0.119	11	0.0	5266	5725
110750545	13.5	12.2	29	5379	158	3.384	0.622	0.190	0.104	1	0.0	6662	6388
110750692	14.5	14.0	52	7458	279	4.159	0.747	0.540	0.126	1	-83.0	6646	8673
110750730	14.0	13.3	58	6407	277	3.935	0.790	-0.066	0.112	1	0.0	6658	6041
110750735	14.2	13.1	38	5436	260	3.413	0.626	0.057	0.150	1	-83.0	6625	6605
110750762	13.5	12.2	37	5461	179	3.238	0.549	0.127	0.091	3	0.0	5266	5353
110750792			77	6715	267	3.912	0.921	-0.232	0.098	29	-83.0	6644	7833
110750882	13.5	11.9	35	5206	139	3.176	0.536	-0.150	0.099	11	0.0	5262	5231
110751001	13.7	12.4	37	5473	221	3.027	0.615	0.113	0.126	5	0.0	6736	5823
110751052			38	6270	264	4.290	0.620	0.295	0.091	71	-83.0	6656	5669
110751090	15.5	13.8	31	5334	163	3.300	0.567	0.094	0.108	1	-83.0	6674	7416
110751096	12.2	11.5	145	9461	436	3.727	0.329	0.564	0.138	1	0.0	7655	10210
110751163	14.9	14.1	46	6190	292	4.091	0.691	0.125	0.084	1	-83.0	6603	5612
110751276	13.8	12.7	55	6134	317	4.050	0.808	0.305	0.095	43	83.0	6627	7206
110751307	15.8	14.4	35	5532	137	3.399	0.252	0.301	0.131	3	-83.0	6572	6659
110751439	16.4	15.6	37	6476	300	3.700	0.796	0.114	0.148	1	0.0	6691	6265
110751459	13.9	13.4	98	8090	330	4.309	0.605	0.089	0.077	1	0.0	6941	9011
110751521	16.0	14.4	47	5087	127	2.912	0.855	0.002	0.109	1	-83.0	5312	5828
110751546	13.1	11.9	36	5148	129	3.196	0.602	-0.087	0.090	1	-83.0	5331	5550
110751659	14.5	13.2	42	5311	175	3.750	0.410	-0.185	0.123	1	-83.0	6581	8085
110751694			186	8511	480	4.374	0.480	0.169	0.111	191	0.0	7666	10216
110751747	13.9	13.2	66	5888	393	3.402	1.022	-0.389	0.161	99	0.0	6613	5788
110751769	15.0	13.7	32	5137	122	3.262	0.463	0.169	0.133	11	0.0	5371	8089

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110751821	15.4	14.6	47	6774	318	3.973	0.737	0.515	0.115	121	-83.0	6562	6842
110751941	15.0	14.1	41	5540	272	4.002	0.635	-0.134	0.133	1	0.0	6676	5517
110751953			38	5887	285	3.887	0.635	0.377	0.099	111	-83.0	5330	5622
110751965	16.1	14.1	26	11991	4460	3.329	1.090	0.328	0.453	1	-166.0	6620	5259
110751986			94	6590	264	3.772	0.956	-0.479	0.209	61	-83.0	6613	7754
110752045			67	6812	293	4.062	0.698	0.181	0.112	61	0.0	6617	6956
110752060			26	5199	120	3.309	0.428	0.213	0.152	1	0.0	6878	5734
110752069	14.8	14.2	57	6164	267	3.728	0.940	-0.292	0.089	1	0.0	6558	6247
110752091			50	6212	269	3.897	0.903	-0.193	0.092	1	0.0	5333	5789
110752254	14.2	13.2	37	5809	288	3.766	0.635	0.248	0.147	45	0.0	6696	5388
110752340	14.5	13.9	66	6708	100	4.323	0.260	0.021	0.092	81	0.0	6652	7640
110752427			57	6113	256	4.080	0.880	-0.300	0.089	1	-83.0	6631	5770
110752443			52	5555	203	4.231	0.363	-0.261	0.103	1	-83.0	6658	6563
110752555	15.6	14.4	29	5339	155	3.624	0.524	0.462	0.093	1	0.0	6696	7727
110752600	16.6	15.8	52	7061	285	4.073	0.793	0.134	0.107	1	-83.0	6555	7098
110752613	15.0	14.0	41	5267	117	3.380	0.542	0.106	0.117	5	0.0	6831	6444
110752674	14.6	13.8	52	5809	264	4.138	0.726	-0.336	0.107	11	0.0	6594	5271
110752826	17.1	16.2	36	5992	292	4.031	0.619	0.207	0.109	1	0.0	5242	5369
110752853	15.0	14.1	50	6340	291	4.057	0.747	0.073	0.076	91	0.0	5302	5783
110752907	14.6	14.1	63	8301	245	3.318	0.720	0.566	0.138	1	0.0	6864	8952
110752987	15.7	14.4	33	5359	100	3.706	0.196	-0.011	0.117	1	0.0	6620	6917
110753031	15.5	14.4	29	5503	148	4.113	0.471	0.424	0.075	1	0.0	6760	6672
110753067	16.9	16.0	36	5880	101	4.288	0.179	0.012	0.107	1	0.0	5284	5663
110753119	12.7	11.5	33	5469	101	3.682	0.185	0.006	0.100	1	0.0	5320	7133
110753213	14.9	14.1	53	6027	251	4.104	0.844	-0.365	0.154	51	-83.0	6553	5785
110753214	13.7	13.1	113	6734	318	4.055	0.828	0.069	0.072	1	0.0	6638	6337
110753232	14.6	13.9	61	6675	275	3.981	0.789	0.301	0.088	147	-83.0	6642	6935
110753314	15.3	14.6	49	6188	263	3.845	0.965	-0.276	0.085	1	0.0	5337	6076
110753335	15.1	14.3	55	6890	287	3.879	0.776	0.220	0.098	1	0.0	6625	7921
110753374			53	6776	275	3.887	0.827	0.125	0.095	1	-83.0	6613	7124

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110753375			44	6216	324	3.702	0.798	0.363	0.104	25	-83.0	6620	6080
110753398	13.1	12.4	54	6237	282	3.925	0.782	0.302	0.103	135	0.0	5356	5760
110753501	15.4	14.3	33	5458	146	4.227	0.333	0.515	0.116	5	0.0	6840	7407
110753571	13.6	12.9	45	6037	267	3.885	0.816	-0.094	0.095	1	0.0	6621	5665
110753699	16.6	15.8	19	9067	4807	3.414	1.085	0.958	0.304	41	0.0	6631	6158
110753724	15.3	14.5	48	6345	101	4.261	0.200	0.098	0.094	25	0.0	6553	5736
110753799			70	6119	245	3.616	0.971	-0.496	0.208	1	-83.0	6585	6186
110753820			70	6232	268	3.849	0.875	-0.278	0.092	141	0.0	6587	5781
110753852	14.8	14.0	70	6299	100	4.425	0.191	-0.095	0.108	185	-83.0	6559	5214
110753919	13.0	12.3	48	6046	257	4.083	0.823	-0.246	0.091	1	83.0	6636	5667
110753981	15.7	15.0	48	9503	3918	3.264	1.093	0.759	0.168	1	-83.0	6589	7672
110753991	12.8	12.2	57	6025	264	3.831	0.929	-0.367	0.132	1	0.0	6607	5771
110754015	14.6	13.9	57	6580	264	3.845	0.889	-0.222	0.109	1	0.0	6552	6838
110754093	13.5	12.9	77	6699	265	3.762	0.981	-0.362	0.166	1	0.0	6643	8913
110754131	15.2	14.4	49	6193	264	3.510	0.923	-0.302	0.084	1	0.0	5359	6606
110754153	14.6	13.9	52	5874	275	3.973	0.840	-0.218	0.104	49	-83.0	5352	5698
110754159	14.7	13.9	50	6297	268	4.117	0.706	-0.082	0.078	1	0.0	6620	5710
110754177	16.0	14.5	32	5672	242	3.540	0.652	0.259	0.120	1	0.0	5338	6308
110754295	14.4	13.8	49	6185	100	4.520	0.188	0.034	0.117	1	-83.0	6644	5678
110754356	14.6	14.0	60	6925	278	3.896	0.884	0.079	0.079	51	0.0	6594	7853
110754429	14.1	13.6	71	6705	266	3.749	0.946	-0.305	0.101	1	-83.0	6622	7834
110754456	15.7	14.3	45	5136	192	4.024	0.720	-0.296	0.093	79	-83.0	6718	5630
110754469			129	11463	2349	4.760	0.142	0.759	0.168	1	-83.0	8415	7303
110754555	13.8	13.2	70	6752	267	3.839	0.921	-0.230	0.127	31	0.0	6555	7763
110754651			65	7864	351	4.408	0.540	0.366	0.103	101	-83.0	7238	7894
110754697	15.0	14.2	37	5576	236	4.444	0.484	-0.187	0.114	1	0.0	5367	6750
110754914	14.1	13.4	55	5906	103	4.074	0.183	-0.178	0.114	19	0.0	6609	5676
110754981	15.6	14.9	49	6945	314	4.185	0.657	0.515	0.115	1	0.0	5236	7439
110755033	14.7	14.1	53	6751	266	3.902	0.869	-0.099	0.099	1	0.0	6676	7271
110755082	15.4	14.1	50	7017	290	3.953	0.791	0.363	0.102	61	-83.0	6714	8302

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110755085	15.9	15.2	69	6656	268	3.778	0.882	-0.227	0.116	91	0.0	6674	7069
110755148	13.4	13.0	76	6756	270	3.708	0.938	-0.311	0.105	1	0.0	5367	7532
110755197	15.0	14.3	42	5773	249	4.101	0.641	0.060	0.125	11	0.0	6640	5607
110755297	15.3	14.5	40	5918	286	3.972	0.647	0.277	0.127	1	0.0	6644	5665
110755549	NaN	12.1	78	6383	251	3.814	0.955	-0.425	0.185	1	0.0	6598	6277
110755653	14.5	14.0	206	7231	296	4.252	0.681	-0.521	0.333	191	-83.0	6943	8460
110755682	19.1	14.3	18	9312	4971	3.439	1.091	0.401	0.267	1	-830.1	5221	10735
110755686	14.4	13.0	38	5319	180	3.484	0.623	0.157	0.124	11	-83.0	6613	6695
110755730	14.9	14.0	43	5871	99	4.021	0.184	-0.022	0.120	11	-83.0	6710	5683
110755875	15.3	14.4	60	6407	269	3.727	0.925	-0.170	0.079	1	0.0	6623	6366
110755882	15.4	14.5	36	5427	100	4.359	0.149	0.004	0.168	11	0.0	6698	6600
110755945			64	6273	259	3.753	0.957	-0.281	0.092	1	-83.0	6551	6216
110756036			41	6090	307	3.809	0.734	0.374	0.097	121	-83.0	6564	5690
110756037	14.2	13.5	49	6064	103	4.292	0.212	-0.030	0.098	91	83.0	5356	5388
110756284	15.4	14.3	32	5072	172	3.833	0.446	0.118	0.146	1	0.0	5282	7415
110756289	15.8	15.1	51	6916	313	4.188	0.654	0.401	0.068	141	-83.0	5264	7275
110756437	15.4	14.5	33	5439	236	3.843	0.503	0.357	0.125	1	0.0	5277	6051
110756459	14.3	13.5	52	5869	188	4.342	0.589	-0.095	0.107	141	0.0	5294	5362
110756500			48	5986	275	4.197	0.655	0.094	0.109	69	0.0	6621	5623
110756503	15.0	14.3	38	6190	297	4.154	0.638	0.389	0.091	1	-83.0	6605	5735
110756702	14.7	13.9	48	6457	294	3.837	0.806	0.109	0.101	1	0.0	6562	6681
110756831	13.4	12.9	80	6340	255	3.568	0.969	-0.467	0.203	101	-83.0	6595	7260
110756844	17.0	16.1	29	6110	298	3.805	0.727	0.556	0.117	1	0.0	6601	5669
110756879	15.2	14.6	62	6446	100	4.099	0.234	0.018	0.100	141	-83.0	6596	6728
110756911	15.9	15.0	49	6201	281	3.986	0.744	0.081	0.128	11	-83.0	6636	5716
110756912	15.1	14.4	51	6003	269	4.013	0.809	-0.209	0.121	31	-83.0	6625	5670
110756999	15.1	14.3	35	5650	242	4.164	0.539	0.099	0.159	1	0.0	6597	6270
110757197	14.5	13.9	54	9051	3354	3.293	1.080	0.759	0.168	1	-83.0	6673	8241
110757254	15.6	14.9	41	5828	300	3.767	0.704	0.276	0.101	171	0.0	5201	5710
110757296	13.1	11.9	36	5445	103	3.260	0.222	-0.030	0.135	11	-83.0	6594	7915

Table B.1. continued.

CoID	<i>B</i> _{mag} [mag]	<i>V</i> _{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log _g [dex]	Δ log _g [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	<i>v_r</i> [km/s]	Teff CaK [K]	Teff Gband [K]
110757396	14.1	13.5	74	6820	270	4.107	0.759	-0.104	0.089	1	0.0	6589	7641
110757407	14.9	14.3	57	6732	282	3.919	0.786	0.167	0.095	31	0.0	5357	7210
110757421			35	5813	233	3.660	0.584	0.305	0.111	35	0.0	6728	5741
110757448	14.9	14.4	52	9366	3674	3.260	1.087	0.759	0.168	1	-83.0	6720	8279
110757468			106	6769	275	3.872	0.878	-0.103	0.100	81	0.0	6603	7834
110757572	13.4	12.5	38	5483	197	4.129	0.548	-0.174	0.148	1	0.0	6661	7910
110757622	15.1	14.5	66	6755	282	3.941	0.793	0.112	0.071	151	-83.0	6635	8135
110757644	14.5	13.8	56	6453	258	3.726	0.938	-0.312	0.108	1	-83.0	6687	6270
110757668	13.9	13.1	41	5758	247	4.354	0.575	-0.183	0.095	1	0.0	6646	5202
110757814	13.9	13.3	59	6482	284	3.906	0.756	0.138	0.104	1	-83.0	6586	6004
110757962	15.1	14.4	63	6195	255	3.502	0.941	-0.447	0.197	1	-83.0	5356	6954
110758096	14.8	14.1	49	6211	308	3.983	0.663	0.507	0.111	141	0.0	6615	5724
110758141	14.2	13.0	39	5453	100	3.586	0.183	-0.025	0.119	1	0.0	6680	5259
110758150	15.7	15.0	82	7139	293	4.095	0.825	0.292	0.116	45	83.0	6747	7457
110758200	14.9	14.2	60	6069	273	3.781	0.886	-0.300	0.099	1	-83.0	6595	5794
110758201	16.8	16.1	42	6470	297	3.962	0.767	0.117	0.134	15	-83.0	6699	6391
110758299	15.2	14.3	46	5859	280	3.796	0.832	-0.205	0.096	1	0.0	6626	5670
110758412	16.1	15.3	54	6845	276	3.892	0.899	-0.217	0.127	1	-83.0	6715	6997
110758427	14.0	13.4	86	7055	99	4.503	0.287	0.014	0.092	1	0.0	6635	8226
110758454	15.5	14.8	55	6646	264	3.786	0.921	-0.321	0.079	1	-83.0	6643	6762
110758467	14.8	14.3	95	7872	330	4.046	0.791	0.092	0.080	101	0.0	6855	8865
110758559	13.8	12.7	42	5353	263	3.321	0.707	-0.166	0.109	1	-83.0	6694	5542
110758577	16.3	15.5	41	5431	101	2.320	0.259	0.205	0.135	1	0.0	5240	5735
110758660	15.4	14.7	40	6770	275	3.968	0.756	0.236	0.118	1	0.0	6639	7177
110758903	15.2	14.3	38	5514	263	3.874	0.780	-0.278	0.093	1	-83.0	6632	5249
110758905	14.8	14.1	49	6052	290	3.967	0.768	-0.180	0.094	19	0.0	6632	5749
110758910	13.1	12.5	78	6812	269	3.720	0.950	-0.134	0.108	41	-83.0	6580	8715
110759086	14.2	13.6	49	6390	101	4.391	0.206	-0.028	0.089	81	0.0	5210	5763
110759109			39	5878	101	4.335	0.185	0.049	0.151	1	0.0	6649	5274
110759120	15.6	14.9	81	6792	265	3.824	0.909	-0.192	0.094	1	0.0	6583	7840

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110759169	13.6	12.3	28	5270	100	3.016	0.388	0.292	0.132	3	-166.0	6662	5597
110759385			89	8177	406	4.188	0.633	-0.226	0.126	1	-83.0	7211	8907
110759393	15.6	14.8	44	6756	315	4.166	0.658	0.474	0.089	131	-83.0	6647	6659
110759397			67	7061	100	4.438	0.310	0.015	0.090	1	0.0	6640	8571
110759425	16.2	15.5	34	6394	291	3.914	0.668	0.346	0.129	1	0.0	6611	6154
110759490	13.8	13.2	66	6114	295	3.798	0.938	-0.286	0.086	91	-83.0	6606	6168
110759516	15.2	14.5	47	6451	284	3.802	0.811	0.066	0.080	1	0.0	6641	6490
110759577	16.1	15.4	46	6250	281	3.752	0.844	-0.203	0.100	23	0.0	6692	6323
110759579	16.2	15.5	52	5845	100	2.959	0.425	0.431	0.076	11	-83.0	5231	7511
110759603	14.1	13.6	59	6964	285	3.894	0.826	0.106	0.120	1	0.0	6683	8961
110759683	15.1	14.4	50	6332	265	3.611	0.898	-0.249	0.089	1	-83.0	5351	6671
110759747	14.0	12.8	50	14037	4087	3.270	1.080	0.293	0.574	1	-913.1	6683	6722
110759755	12.9	12.4	69	6785	264	3.966	0.887	-0.191	0.108	1	0.0	6625	7120
110759819	15.1	14.4	57	6137	253	3.846	0.984	-0.381	0.149	1	0.0	6646	6072
110759964			58	5895	260	4.001	0.882	-0.431	0.191	1	-83.0	6580	5652
110760081	14.7	14.0	66	6748	101	4.454	0.302	-0.037	0.098	31	-83.0	6623	7660
110760085	15.5	14.5	41	5328	119	3.451	0.559	-0.497	0.218	11	83.0	6779	7246
110760111			41	5521	232	4.345	0.526	-0.239	0.132	1	0.0	6647	6096
110760147			41	5657	274	3.886	0.598	-0.002	0.131	13	0.0	6684	5340
110760156			40	5347	196	3.081	0.658	0.246	0.100	1	0.0	5259	7099
110760161	16.2	15.4	42	5943	261	3.809	0.900	-0.320	0.078	1	0.0	14161	5092
110760281			34	5551	179	3.858	0.508	0.212	0.131	3	-83.0	6728	8567
110760282	13.8	13.1	51	6008	293	3.570	0.692	0.208	0.101	81	0.0	5346	5700
110760337	14.0	13.6	59	8269	431	4.457	0.486	0.222	0.120	1	-83.0	7881	9035
110760368	13.5	12.9	63	6141	250	3.833	0.992	-0.466	0.201	41	-83.0	6616	6025
110760406	15.0	14.1	39	5578	100	4.264	0.149	0.054	0.126	5	-83.0	6585	5208
110760516	11.7	11.3	63	6332	256	3.769	0.977	-0.254	0.085	1	0.0	6623	6738
110760523	14.4	13.7	40	6201	289	4.103	0.618	0.316	0.091	57	-83.0	6556	5709
110760531	14.9	14.2	35	5797	250	4.321	0.584	-0.209	0.115	1	0.0	6693	5485
110760627	15.5	14.5	36	5278	100	2.061	0.101	0.566	0.133	1	0.0	6796	7035

Table B.1. continued.

ColD	B _{mag} [mag]	V _{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log _g [dex]	Δ log _g [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v _r [km/s]	Teff CaK [K]	Teff Gband [K]
110760673			32	5446	235	4.103	0.444	0.353	0.116	11	83.0	5347	8705
110760688	13.6	12.9	50	5877	269	4.124	0.765	-0.204	0.130	1	0.0	6655	5654
110760723	14.6	14.0	70	6700	308	3.986	0.764	0.559	0.134	151	0.0	6584	7421
110760738	13.8	13.1	59	6221	257	3.679	0.997	-0.458	0.195	1	-83.0	5331	6105
110760752	12.7	12.2	63	6308	273	3.936	0.822	-0.040	0.113	33	0.0	6571	6217
110760837	14.5	13.8	54	5741	246	4.132	0.785	-0.523	0.209	11	-83.0	6593	5610
110761190	14.6	13.8	37	5848	235	4.248	0.559	0.229	0.129	1	-83.0	6655	5388
110761196	13.6	13.2	130	12925	1551	4.552	0.305	0.472	0.113	131	-83.0	8784	11523
110761238	14.8	13.8	41	5297	237	3.908	0.690	-0.383	0.180	1	-83.0	6630	7236
110761340	15.5	14.8	52	6825	305	4.000	0.772	0.290	0.098	71	-83.0	6632	7268
110761385			70	6293	267	3.711	0.909	-0.315	0.091	81	-83.0	6760	6556
110761438	14.5	13.9	78	6705	273	3.797	0.933	-0.378	0.177	51	0.0	6616	7720
110761517	15.7	13.7	29	12378	4338	3.410	1.097	0.488	0.405	1	-83.0	6727	6622
110761532	14.1	12.8	46	5220	168	3.678	0.549	-0.152	0.127	1	-83.0	6851	7626
110761557	13.8	12.6	31	5129	100	2.626	0.353	0.332	0.123	1	0.0	6670	6414
110761791	14.8	14.2	45	6544	305	3.878	0.787	0.360	0.080	131	-83.0	6676	6630
110761880			27	5169	149	3.215	0.560	0.233	0.099	1	0.0	6567	6116
110761923	14.5	13.8	52	5975	227	4.340	0.678	-0.406	0.174	1	0.0	6676	5316
110761980	14.4	13.8	57	6420	332	4.068	0.690	0.309	0.091	143	-83.0	6607	5790
110762012			70	19477	857	2.269	0.018	0.879	0.517	35	-83.0	5215	9341
110762031	15.1	14.4	47	6051	262	4.287	0.685	-0.224	0.117	1	0.0	6674	5333
110762041	13.9	12.4	27	5086	140	3.033	0.508	0.258	0.156	1	0.0	6569	7108
110762148			38	5954	293	3.941	0.628	0.385	0.091	89	0.0	5357	5322
110762153	15.6	14.9	66	6897	333	4.197	0.678	0.479	0.100	191	0.0	6640	7032
110762238			72	6763	310	4.179	0.608	0.225	0.124	191	-83.0	6625	7623
110762262	14.6	13.9	97	15247	3430	3.546	0.969	0.759	0.168	11	-83.0	7976	13398
110762275	16.9	16.2	23	8780	4737	3.393	1.091	0.612	0.208	1	-83.0	6864	6355
110762381	14.5	13.5	45	5543	169	4.285	0.579	-0.498	0.208	11	-83.0	6657	6591
110762386	13.5	12.8	58	6402	257	3.853	0.905	-0.203	0.106	1	0.0	6617	6395
110762474	14.0	13.5	71	6633	285	3.751	0.972	-0.323	0.131	25	0.0	6720	7332

Table B.1. continued.

CoID	<i>B</i> _{mag} [mag]	<i>V</i> _{mag} [mag]	S/N	T _{eff} [K]	Δ T _{eff} [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>v</i> _{ini} [km/s]	<i>v_r</i> [km/s]	T _{eff} CaK [K]	T _{eff} Gband [K]
110762503	NaN	11.7	43	5913	269	4.109	0.741	-0.125	0.094	1	-83.0	6549	5732
110762540	16.0	15.2	37	6259	312	4.021	0.655	0.366	0.108	1	0.0	5338	5693
110762646	12.9	12.3	45	5939	262	4.005	0.885	-0.360	0.149	1	-83.0	6627	5685
110762689	14.2	13.6	53	6228	264	3.823	0.905	-0.273	0.090	1	-83.0	6609	6015
110762719	14.8	14.2	62	6866	261	3.790	0.936	-0.241	0.120	1	-83.0	6606	7616
110762802	13.9	12.7	35	5235	188	3.305	0.573	0.098	0.117	11	0.0	6679	7285
110762807	14.8	13.6	49	5308	100	3.495	0.101	-0.026	0.120	11	-83.0	6679	6850
110762904	14.1	12.8	27	5067	178	3.210	0.515	0.118	0.159	11	-83.0	6678	8433
110763012			71	6131	248	3.687	0.941	-0.450	0.189	1	0.0	6580	6057
110763051	13.8	13.3	76	6591	268	3.787	0.933	-0.281	0.092	1	-83.0	6595	7656
110763162	13.6	12.9	45	5784	261	4.151	0.738	-0.281	0.090	1	0.0	6582	5686
110763220			86	6973	274	3.925	0.945	-0.108	0.100	1	83.0	6647	7618
110763324	13.8	12.7	45	5886	254	3.879	0.708	0.077	0.131	11	83.0	6768	5309
110763391	14.8	14.2	45	6050	287	3.946	0.801	-0.116	0.106	1	0.0	6678	5795
110763448	13.8	13.1	62	6362	100	3.863	0.268	-0.006	0.113	51	0.0	6629	6375
110763533			92	14669	3980	3.876	0.958	0.759	0.168	191	-83.0	7995	8930
110763557	14.7	14.1	61	6614	263	3.647	0.953	-0.360	0.144	1	-83.0	5340	8462
110763599			62	6097	256	3.652	0.939	-0.409	0.172	1	-83.0	5330	5780
110763666			54	6295	299	3.970	0.781	0.174	0.100	151	-83.0	6624	6069
110763674			45	5740	247	3.716	0.726	-0.126	0.095	11	0.0	6608	5214
110763879	15.1	14.2	29	5116	206	4.458	0.371	-0.186	0.131	1	0.0	5340	7330
110763892			60	6660	260	3.843	0.891	-0.324	0.117	1	0.0	6672	7620
110763906	14.3	13.8	83	8138	121	4.792	0.212	-0.041	0.118	61	-83.0	7267	9794
110763913	14.8	14.1	52	6115	262	3.889	0.842	-0.202	0.088	1	83.0	6562	5747
110763915			31	5215	156	3.627	0.577	0.224	0.133	1	0.0	6632	5916
110764107	15.5	14.9	58	6781	280	3.873	0.850	-0.117	0.103	1	-83.0	6549	7536
110764173	15.1	14.4	44	6206	100	4.224	0.194	0.009	0.119	1	0.0	5298	5757
110764218	14.4	13.2	34	5237	100	3.035	0.529	0.166	0.160	11	-83.0	6679	7709
110764362			63	6031	263	3.863	0.875	-0.352	0.116	1	-83.0	6622	5730
110764369	15.2	14.5	60	6191	253	4.284	0.669	0.176	0.108	91	0.0	6648	5747

Table B.1. continued.

ColD	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	$v \sin i$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110764384			40	5421	216	3.354	0.673	-0.243	0.110	11	-83.0	6676	7755
110764397	16.0	15.3	49	5866	313	3.703	0.692	-0.488	0.206	53	0.0	5253	6142
110764421	13.8	13.3	54	9206	3324	3.294	1.079	0.759	0.168	1	-83.0	6693	8722
110764630	15.9	15.3	59	6965	276	3.912	0.877	-0.124	0.126	61	-83.0	6674	7980
110764649	15.2	14.5	55	7057	311	3.945	0.719	0.468	0.098	1	-83.0	5325	8045
110764660	13.4	12.8	60	6784	297	4.125	0.769	0.286	0.107	21	0.0	6669	6277
110764697	15.5	14.5	39	5317	97	3.670	0.199	-0.006	0.126	1	-83.0	6725	6899
110764711	13.5	12.9	66	6318	271	3.835	0.791	-0.119	0.088	1	0.0	6598	6388
110764860	13.3	12.1	36	5442	233	3.580	0.692	0.085	0.097	1	0.0	6681	6774
110764867	12.4	12.0	15	10049	4821	3.398	1.094	0.259	0.603	1	-83.0	6886	6371
110765056	14.9	14.2	45	6288	291	3.820	0.756	0.360	0.083	151	-83.0	5208	6358
110765083	14.6	13.9	60	6580	264	3.708	0.930	-0.294	0.102	1	0.0	6588	7958
110765145	14.7	14.0	50	6068	332	3.992	0.646	0.373	0.095	47	0.0	6687	5697
110765237	15.9	15.1	46	6629	335	4.041	0.729	0.526	0.120	1	-83.0	6559	6499
110765245	13.7	13.1	53	6416	285	4.257	0.693	0.383	0.083	147	0.0	5356	6260
110765352	12.1	11.9	143	9875	2025	3.811	0.672	0.759	0.168	151	0.0	7916	9899
110765375			96	7843	323	4.150	0.740	0.118	0.071	45	-83.0	6844	9038
110765436	15.4	14.0	24	8694	4928	3.422	1.091	0.759	0.168	1	0.0	6581	5750
110765615	14.1	13.7	45	9162	4292	3.552	1.024	0.759	0.168	1	-83.0	7000	9295
110765692	15.0	13.7	31	5637	183	3.793	0.566	0.401	0.087	11	0.0	6682	7449
110765783	16.0	15.3	86	7129	301	4.248	0.628	0.198	0.131	191	-83.0	6607	7850
110765792	15.0	14.4	71	10238	4060	3.504	0.974	0.759	0.168	1	0.0	6788	8183
110765871	15.1	14.4	45	6888	318	4.197	0.654	0.456	0.082	41	0.0	6596	7359
110766030			80	7421	320	4.334	0.588	0.489	0.104	181	0.0	6807	8194
110766033	14.6	13.9	190	7062	295	4.036	0.778	-0.416	0.265	191	0.0	6827	7438
110766160	13.8	13.1	71	7059	305	3.898	0.860	0.224	0.112	1	0.0	6625	7915
110766232			73	6656	255	3.845	0.968	-0.306	0.097	1	-83.0	5371	7208
110766357	13.7	13.2	87	7082	101	4.619	0.223	0.018	0.084	1	0.0	6627	7703
110766390	15.0	14.4	56	7058	100	4.330	0.281	-0.012	0.101	61	-83.0	6702	8246
110766417			43	5356	213	3.548	0.698	-0.322	0.108	11	-166.0	6674	8567

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110766466	13.8	13.3	76	6952	292	3.766	0.905	-0.176	0.103	15	0.0	6663	7647
110766500	13.4	12.7	53	5683	256	4.162	0.753	-0.371	0.141	1	83.0	6595	5393
110766533			52	6140	294	3.940	0.773	0.188	0.108	131	-83.0	5370	6158
110766591	12.7	12.3	131	13238	3068	4.184	0.631	0.759	0.168	1	0.0	8102	9742
110766627	15.0	14.3	70	6089	284	4.005	0.734	-0.153	0.101	41	0.0	6630	5647
110766702			72	6655	257	3.731	0.965	-0.296	0.089	1	-83.0	6645	7470
110766710			42	5509	264	3.741	0.736	-0.101	0.137	1	0.0	6612	5918
110766860	15.1	14.4	54	6005	255	4.061	0.857	-0.289	0.084	15	-83.0	6567	5678
110766954	15.3	14.7	63	6904	272	3.838	0.908	-0.186	0.135	1	-83.0	6615	7638
110767025	15.8	15.1	57	6564	269	3.845	0.811	-0.123	0.088	61	-83.0	6704	7470
110767161	14.2	13.2	44	5045	131	3.941	0.526	-0.533	0.272	11	0.0	5362	10167
110767309	14.4	13.7	37	6636	310	3.937	0.726	0.393	0.096	1	0.0	6690	7348
110767473	13.7	13.3	84	8201	397	4.488	0.471	0.377	0.077	81	0.0	7084	9294
110767488			53	6198	280	4.051	0.755	-0.106	0.087	1	0.0	6705	6183
110767547			56	6852	268	3.828	0.902	-0.084	0.097	1	-83.0	6631	8064
110767575	13.9	12.9	37	5568	223	3.564	0.684	0.054	0.126	11	0.0	6573	6519
110767582	15.6	14.9	71	6422	259	3.526	0.933	-0.486	0.225	81	0.0	6586	7444
110767604			44	5871	237	4.467	0.494	-0.317	0.114	1	-83.0	5373	5324
110767768	15.8	15.1	30	6279	321	3.891	0.684	0.402	0.096	1	0.0	6564	5720
110767863	14.2	13.6	58	6415	102	4.148	0.236	0.001	0.095	121	-83.0	6608	6147
110767871			65	6807	318	4.107	0.692	0.288	0.085	161	-83.0	6594	6771
110767913			46	5761	272	3.747	0.854	-0.332	0.080	1	0.0	5284	5607
110767992	17.1	16.2	102	19659	344	2.335	0.101	0.759	0.168	29	-83.0	7648	7234
110768029	14.3	13.5	42	5729	99	4.463	0.160	-0.107	0.091	1	0.0	6731	5753
110768042			46	6142	278	4.113	0.768	-0.106	0.090	1	-83.0	6655	5751
110768111			24	9272	4978	3.470	1.094	0.759	0.168	1	83.0	8108	5670
110768194	15.2	14.5	51	6446	268	3.764	0.827	-0.095	0.095	1	-83.0	6557	6470
110768276	13.8	13.2	55	6183	263	3.831	0.910	-0.233	0.113	1	-83.0	6556	5778
110768311	14.0	13.3	43	6225	314	4.021	0.671	0.390	0.085	73	83.0	6583	5720
110768371	13.6	13.0	57	6447	102	4.451	0.194	0.009	0.110	1	0.0	6640	5754

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110768382			57	6457	276	3.992	0.792	-0.103	0.105	81	0.0	6657	6313
110768394	16.6	15.7	44	6211	266	4.310	0.696	-0.085	0.133	1	0.0	5259	5281
110768438			52	6442	101	4.458	0.199	-0.012	0.084	101	83.0	6630	5760
110768526			43	6412	257	3.822	0.969	-0.273	0.093	1	0.0	6550	6127
110768586	16.8	15.9	45	5961	220	4.149	0.609	0.299	0.127	11	-83.0	5364	5660
110768591			80	6959	315	3.928	0.846	0.090	0.091	141	-83.0	5338	8167
110768692			52	6319	318	4.007	0.789	0.098	0.093	61	83.0	6749	5756
110768709			51	6024	100	4.310	0.179	-0.094	0.104	45	0.0	5342	5227
110768828			50	6032	270	4.147	0.714	-0.112	0.108	41	-83.0	6610	5635
110768960			54	6697	288	3.901	0.890	0.117	0.075	1	0.0	6666	7060
110768962			60	6948	272	3.811	0.985	-0.292	0.100	1	-83.0	6644	7743
110768976			120	8096	437	4.360	0.568	-0.258	0.194	191	83.0	7017	9164
110768992	13.6	12.8	43	5731	246	4.139	0.707	-0.247	0.119	11	-83.0	6599	5316
110768999			44	6058	277	4.212	0.614	0.111	0.119	11	-166.0	6661	5368
110769099			62	6627	329	4.060	0.738	0.560	0.135	131	-83.0	6656	6831
110769107	14.8	13.9	169	18961	848	2.866	0.586	0.759	0.168	1	-166.0	7920	9714
110769258			38	12927	4481	3.380	1.087	0.364	0.476	1	-249.0	6590	5303
110769369			38	5901	258	4.112	0.662	0.057	0.090	11	-166.0	6631	5329
110769380			78	6992	313	3.968	0.867	-0.222	0.135	41	83.0	6648	7932
110769502	13.2	12.5	74	5997	263	4.073	0.817	-0.384	0.149	121	0.0	6719	5647
110769523			38	5897	283	4.189	0.629	0.081	0.103	1	0.0	6655	5650
110769585	13.0	12.4	55	6446	272	3.804	0.838	-0.103	0.093	1	-83.0	6569	6817
110769664			48	6282	264	3.968	0.826	0.487	0.101	135	-83.0	6646	5758
110769708			52	6650	276	3.864	0.874	0.126	0.088	1	0.0	6561	6992
110769718	13.4	12.9	93	6584	277	3.658	0.943	-0.452	0.195	1	-83.0	6642	8671
110769819	15.5	14.3	35	5110	195	3.766	0.586	-0.403	0.176	1	-83.0	5368	6933
110769839	15.8	14.9	43	6364	304	3.898	0.747	0.318	0.104	1	0.0	6633	5774
110769881	13.9	13.3	52	6081	252	3.794	0.954	-0.276	0.105	1	-83.0	6675	6106
110769908			48	6100	258	4.058	0.759	-0.230	0.114	1	0.0	6625	5710
110769982	16.0	15.3	46	7887	3533	3.712	0.896	0.759	0.168	1	-166.0	5340	7021

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110770031	17.1	16.3	43	6600	329	3.821	0.811	0.501	0.108	101	0.0	6760	7189
110770033	14.9	14.1	50	6182	258	3.909	0.945	-0.395	0.178	1	-83.0	6703	5694
110770101			36	5472	99	4.510	0.156	-0.032	0.154	11	0.0	6564	7269
110770129	15.3	14.5	91	7586	308	3.998	0.805	-0.202	0.126	1	-83.0	6851	9129
110770171	14.1	12.8	29	5395	113	3.250	0.594	0.421	0.077	1	0.0	6630	7320
110770220			64	7042	283	4.031	0.803	0.276	0.067	101	-83.0	6620	7394
110770277			63	6837	323	4.061	0.742	0.283	0.111	111	-83.0	5264	6628
110770314	16.0	15.3	50	6112	264	3.841	0.873	-0.250	0.084	1	0.0	5355	5721
110770334	15.2	14.5	45	6184	298	3.764	0.826	0.075	0.111	31	0.0	6700	6155
110770390	15.9	15.0	57	6308	100	3.788	0.292	-0.012	0.105	1	0.0	6580	6595
110770409			71	7420	317	4.290	0.632	0.196	0.088	1	0.0	6815	9009
110770455			112	7005	305	4.105	0.759	0.090	0.087	191	-83.0	6593	7548
110770463	15.1	14.5	55	6353	292	3.847	0.833	0.113	0.097	91	-83.0	5291	6264
110770565			55	6758	300	3.973	0.760	0.311	0.074	151	0.0	6690	7754
110770623	14.0	12.7	30	5333	171	3.579	0.492	0.140	0.118	1	-83.0	6692	7089
110770709			51	6222	223	4.264	0.552	0.098	0.111	1	0.0	5329	5686
110770740	15.9	15.2	49	5660	125	2.884	0.456	0.303	0.120	11	0.0	6836	6498
110771021			51	6396	276	4.206	0.750	-0.128	0.085	1	0.0	6662	5756
110771221	17.0	16.2	39	6402	100	4.172	0.225	-0.023	0.122	1	-83.0	6738	7295
110771256	15.8	15.1	57	6910	288	3.945	0.918	0.064	0.092	11	-83.0	6662	7457
110771303	15.3	14.1	37	5388	156	3.480	0.553	0.145	0.139	1	0.0	6681	6480
110771413			67	6407	274	3.915	0.804	-0.023	0.084	55	0.0	6582	6344
110771444	13.5	12.8	66	6690	266	3.904	0.906	-0.095	0.110	1	-83.0	6650	7374
110771471	11.5	11.3	76	6355	255	3.840	0.934	-0.298	0.096	91	0.0	6600	6135
110771530	15.3	14.4	35	5556	104	4.531	0.160	0.038	0.116	1	0.0	6658	6326
110771656			50	6288	257	3.932	0.720	0.215	0.107	1	-83.0	6710	5713
110771732		13.5	44	5650	260	4.440	0.436	0.118	0.118	11	-83.0	6644	8009
110771789			50	6317	272	4.035	0.722	0.202	0.123	1	0.0	6628	5799
110771804			56	6107	287	3.938	0.783	0.178	0.124	63	0.0	6613	5748
110771883			54	5777	101	3.710	0.213	0.032	0.104	1	-83.0	5371	5279

Table B.1. continued.

ColD	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110772037	15.0	14.4	62	10383	4341	3.546	0.979	0.759	0.168	1	0.0	6628	8181
110772083			78	7065	275	3.967	0.824	0.087	0.102	41	0.0	6654	8048
110772106			64	6774	271	3.752	0.946	-0.173	0.104	1	-83.0	6592	8000
110772505			36	5388	107	3.358	0.211	0.001	0.121	1	0.0	6613	6379
110772510	15.1	14.5	63	6689	274	3.901	0.836	0.098	0.086	1	0.0	5226	7570
110772511			45	5387	184	3.752	0.383	-0.345	0.144	1	0.0	6658	6555
110772519			47	5953	266	4.105	0.763	-0.159	0.081	1	0.0	6662	5735
110772530			45	6066	280	3.983	0.782	-0.147	0.097	1	-166.0	6711	5649
110772598			72	6501	267	3.961	0.945	-0.220	0.099	1	0.0	6563	7140
110772719	14.0	13.3	54	6475	101	4.541	0.193	-0.002	0.079	1	0.0	6615	5752
110772800			38	5203	144	3.911	0.477	-0.079	0.152	1	0.0	6773	9147
110772907			56	7322	287	4.076	0.745	0.076	0.117	11	-83.0	6742	7803
110772969			57	6437	266	4.093	0.844	-0.123	0.101	47	83.0	6698	5745
110773042	14.2	12.6	33	8427	4438	3.352	1.107	0.759	0.168	1	0.0	5309	6681
110773194			46	5479	168	3.331	0.648	0.083	0.131	3	-83.0	6728	6042
110773252	15.0	14.2	42	5778	100	4.011	0.231	0.019	0.131	1	0.0	6608	5658
110773266	12.8	12.3	60	6318	276	3.827	0.834	-0.073	0.081	1	0.0	6647	6565
110773284			52	6203	101	3.872	0.238	-0.023	0.074	91	-83.0	6651	5779
110773428			48	6057	261	4.157	0.757	-0.189	0.128	1	-83.0	6609	5609
110773587			45	5791	282	4.221	0.642	-0.110	0.118	1	-83.0	6597	5605
110773610	13.8	13.2	66	6645	261	3.805	0.915	-0.181	0.111	1	0.0	6563	6935
110773678			48	5983	271	4.055	0.805	-0.204	0.131	1	0.0	6593	5685
110773774	14.1	13.4	46	5737	155	4.136	0.292	0.083	0.100	1	-83.0	5225	5351
110773814			46	6303	327	3.885	0.743	0.433	0.071	131	0.0	5356	5793
110773852			39	5932	262	4.289	0.587	0.215	0.124	1	-83.0	6701	5299
110774018	14.8	13.5	39	5282	171	3.291	0.591	-0.097	0.099	1	0.0	6643	5705
110774120			47	6166	274	3.975	0.787	0.065	0.084	161	-83.0	6698	5758
110774325			33	5116	210	3.232	0.662	-0.093	0.095	3	0.0	6745	6438
110774396	13.7	13.4	83	11852	3623	3.771	0.879	0.834	0.227	191	-83.0	7989	10512
110774419			48	5994	280	3.893	0.714	0.212	0.123	91	0.0	5351	5701

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v _{ini} [km/s]	v _r [km/s]	Teff CaK [K]	Teff Gband [K]
110774426	16.5	15.6	40	6831	308	4.037	0.686	0.495	0.108	71	-83.0	5339	6452
110774445			40	6379	270	3.945	0.811	-0.065	0.141	1	0.0	6572	6376
110774446	13.6	12.4	32	5534	153	3.316	0.617	0.239	0.106	1	0.0	5330	6986
110774466			58	7075	283	3.930	0.826	0.196	0.084	121	-83.0	6621	7822
110774556			59	6069	262	3.550	0.975	-0.370	0.140	1	-83.0	6605	6608
110774596			36	5468	218	4.062	0.542	0.200	0.133	1	0.0	6672	5922
110774638			81	8261	451	4.310	0.563	-0.086	0.115	1	-83.0	7598	8557
110774761			137	8175	400	4.509	0.459	0.401	0.054	171	0.0	7591	9148
110774845			105	15962	3386	2.521	0.777	0.756	0.170	131	-166.0	6582	5903
110774938			64	7407	296	4.084	0.760	0.289	0.087	1	-83.0	6729	8260
110774942			58	6764	101	4.495	0.282	-0.004	0.098	31	0.0	6601	8135
110774993	14.5	13.9	99	6335	265	3.686	0.912	-0.422	0.182	153	-83.0	6612	6833
110775031			71	6708	267	3.730	0.945	-0.111	0.086	1	-83.0	6601	8057
110775088			55	5923	191	3.921	0.518	-0.100	0.094	71	83.0	6733	6537
110775144			43	5795	258	4.348	0.595	-0.153	0.133	11	-83.0	6680	5356
110775185			56	7545	99	4.184	0.414	0.016	0.125	1	-83.0	6827	9034
110775263			46	17188	2058	2.287	0.382	-0.294	0.934	1	-83.0	5440	5275
110775276	13.1	12.5	62	6198	306	3.727	0.790	0.020	0.094	115	-166.0	6582	5777
110775384			34	5395	178	3.563	0.608	0.139	0.108	1	-83.0	6646	5309
110775388			54	7317	338	3.966	0.744	0.085	0.111	1	-83.0	6831	13453
110775484	14.9	14.3	73	6600	263	3.667	0.960	-0.336	0.091	41	-83.0	6575	7529
110775540	14.8	14.0	44	6181	292	3.876	0.744	0.075	0.091	9	-83.0	6608	5738
110775576			46	6257	311	4.023	0.726	0.285	0.076	121	0.0	6769	6069
110775618			57	6949	314	4.278	0.620	0.522	0.119	1	0.0	6603	7478
110775660			61	6380	271	3.806	0.823	-0.121	0.105	1	0.0	6603	6984
110775703	16.7	15.9	44	6781	295	4.177	0.715	0.300	0.093	49	-83.0	6817	6134
110775760			65	5799	233	3.645	0.385	0.306	0.128	97	-83.0	6591	5648
110775810	14.9	14.2	79	6749	100	4.127	0.331	-0.019	0.111	61	0.0	6623	7908
110775839			25	5041	143	3.364	0.537	0.399	0.081	1	0.0	6560	6880
110775891			39	5185	100	3.080	0.205	-0.234	0.098	3	-83.0	6768	6441

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	$v \sin i$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110775904			36	5751	254	4.348	0.535	-0.124	0.108	1	0.0	6623	5396
110775963	14.9	14.3	60	6852	99	3.998	0.339	0.033	0.091	1	-83.0	6612	7795
110775966			58	6396	273	3.896	0.831	-0.097	0.106	1	-83.0	5358	6068
110776004			106	7854	347	4.276	0.661	0.243	0.083	1	0.0	6926	8169
110776123			74	8005	367	4.437	0.547	0.528	0.121	151	-83.0	6961	8864
110776201			54	6877	277	3.906	0.861	0.141	0.113	1	-83.0	6615	7843
110776247			42	5479	100	2.356	0.328	-0.116	0.109	9	249.0	6746	5259
110776263			37	5565	241	4.090	0.627	-0.137	0.108	1	-83.0	6600	5223
110776411			44	6008	100	4.415	0.180	-0.005	0.094	1	0.0	6658	5675
110776515			58	6973	301	4.016	0.814	0.297	0.104	71	83.0	6716	7398
110776643			64	5762	201	3.874	0.773	-0.428	0.201	1	-83.0	5337	5389
110776651			61	5439	174	3.589	0.493	-0.406	0.166	1	83.0	5200	5642
110776732			47	6219	269	3.859	0.908	-0.178	0.084	1	0.0	6655	5691
110776806			29	5380	160	3.346	0.632	0.317	0.102	1	0.0	6634	5637
110776915			40	6003	291	3.923	0.691	0.297	0.127	1	0.0	6655	5670
110776963			50	6108	301	4.050	0.736	0.113	0.081	121	-83.0	6709	5677
110777050			93	7987	352	4.039	0.774	-0.106	0.124	1	0.0	6902	8803
110777052			59	6464	279	3.938	0.877	-0.217	0.119	1	0.0	6615	6942
110777065			39	5723	240	4.404	0.498	-0.214	0.139	1	0.0	6600	6063
110777088			87	7595	330	4.244	0.637	0.353	0.132	191	83.0	6924	9634
110777106			53	6342	333	3.966	0.767	0.319	0.101	141	-83.0	6644	6229
110777151			34	5812	302	3.565	0.680	0.263	0.135	29	0.0	6741	5646
110777155			69	6385	261	3.936	0.964	-0.305	0.103	55	-83.0	6593	6046
110777272			38	6086	292	4.050	0.655	0.378	0.082	151	-83.0	6555	5717
110777276			28	5221	188	3.609	0.493	0.264	0.127	11	-83.0	6706	6638
110777307			72	7383	100	4.607	0.277	0.005	0.085	11	-83.0	6699	8643
110777309			44	6065	271	4.155	0.737	-0.214	0.094	1	0.0	6648	5700
110777372			42	6238	101	4.368	0.191	0.009	0.089	71	-83.0	5304	5780
110777465			37	7117	297	4.182	0.597	0.435	0.086	91	-83.0	6548	8185
110777499			41	5844	231	4.415	0.579	-0.367	0.157	3	-83.0	5213	5319

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110777507			69	6929	100	4.349	0.308	-0.004	0.090	21	0.0	6602	7852
110777606			27	5275	215	3.488	0.613	0.232	0.111	1	0.0	6781	6774
110777609			32	5517	166	3.178	0.585	0.444	0.084	1	0.0	6559	6487
110777727			46	5925	241	4.256	0.608	-0.004	0.108	49	0.0	6686	5674
110777793			81	7010	296	3.921	0.923	-0.221	0.121	1	83.0	6659	6999
110777794			70	8341	255	2.959	0.609	0.549	0.130	101	-166.0	6999	9117
110777877			60	7069	287	4.000	0.810	0.047	0.099	1	0.0	6727	8091
110777899			39	5377	166	3.557	0.456	0.464	0.090	1	-83.0	6685	7211
110778005			30	5283	153	3.181	0.621	0.363	0.105	1	0.0	6645	5760
110778089			34	13006	4286	3.278	1.089	0.549	0.419	1	-83.0	6852	5668
110778146			66	6724	276	3.957	0.880	-0.119	0.113	1	-83.0	6613	7394
110778153			44	5566	264	3.480	0.750	-0.153	0.090	11	-83.0	5290	5254
110778159			41	5936	284	4.016	0.754	0.098	0.113	1	0.0	6697	5708
110778212			66	6873	101	4.329	0.258	0.029	0.093	1	0.0	6669	7724
110778252			76	7265	314	4.229	0.633	0.294	0.105	71	0.0	6712	7507
110778313			36	5525	100	3.466	0.230	-0.036	0.100	11	0.0	6691	5279
110778786			88	19032	851	2.187	0.343	-1.585	0.970	1	-83.0	6574	6114
110778824			75	6224	248	3.779	0.972	-0.438	0.192	101	-166.0	6567	5778
110778978			50	7737	332	4.305	0.641	0.434	0.076	1	-83.0	6854	8736
110779103			54	6460	300	4.013	0.806	0.237	0.096	81	0.0	6567	6169
110779206			66	6336	277	3.835	0.810	-0.011	0.089	39	-83.0	5372	6451
110779273			42	5774	265	4.241	0.586	0.095	0.119	1	0.0	6549	5216
110779286			43	5097	146	3.222	0.558	0.237	0.129	7	0.0	6768	7178
110779289			62	6908	300	4.081	0.744	0.188	0.090	111	0.0	6583	7553
110779300			63	6424	284	4.077	0.787	-0.081	0.117	1	-83.0	6611	6357
110779314			32	5903	229	4.503	0.410	0.470	0.097	1	0.0	6814	5767
110779386			51	5895	277	4.314	0.655	-0.306	0.095	1	0.0	6760	5251
110779398			55	5928	192	4.082	0.633	-0.211	0.108	1	0.0	6650	5623
110779477			57	7226	288	4.124	0.720	0.180	0.111	1	0.0	6692	8399
110779540			115	14351	3070	4.253	0.706	0.759	0.168	1	0.0	8274	10259

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110779701			112	8679	647	4.405	0.503	0.167	0.068	161	-83.0	8062	8458
110779757			53	6170	104	4.338	0.179	0.006	0.106	101	0.0	5343	5745
110779765			61	6268	264	3.698	0.897	-0.189	0.109	1	-83.0	6633	6346
110779797			66	7408	305	4.310	0.624	0.321	0.086	1	-83.0	6726	8758
110779915			46	5663	237	4.239	0.666	-0.467	0.202	11	-83.0	6597	5563
110779936			57	9196	3612	3.321	1.099	0.759	0.168	1	-83.0	6648	7373
110780004			35	5344	237	4.198	0.507	-0.117	0.111	1	0.0	6640	6955
110780036			75	6729	300	3.998	0.775	0.294	0.085	191	-83.0	6585	7775
110780294			105	8444	520	4.138	0.649	-0.220	0.127	1	-83.0	7184	9192
110780340			33	5412	116	3.089	0.568	0.252	0.131	9	0.0	6741	6837
110780368			33	13251	4408	3.197	1.088	0.357	0.487	1	-83.0	6590	5674
110780383			65	17729	1528	2.021	0.143	0.382	0.309	25	-498.1	5777	5718
110780397			80	6256	247	3.767	0.764	-0.368	0.216	1	0.0	6606	6452
110780510			59	6572	332	3.787	0.786	0.523	0.119	1	0.0	6578	6221
110780566			33	5087	103	2.795	0.172	-0.019	0.090	11	0.0	6798	6568
110780790			94	8175	380	4.271	0.636	0.310	0.064	1	-83.0	6997	8941
110780816			110	7860	1206	3.919	0.859	0.454	0.080	155	83.0	6785	8057
110780831			42	5966	112	4.391	0.191	0.029	0.091	1	-83.0	6599	5702
110780979			66	5919	182	3.585	0.575	0.003	0.118	69	-83.0	6714	5775
110781094			52	6966	284	3.881	0.856	0.328	0.102	1	-166.0	6670	7352
110781107			57	7533	313	3.807	0.872	0.358	0.097	41	0.0	6679	8656
110781109			33	5025	145	3.462	0.574	-0.084	0.094	1	0.0	6685	7198
110825511	16.7	15.8	36	6169	104	4.338	0.217	0.024	0.111	1	0.0	6578	6117
110825530	14.0	13.4	50	6095	264	3.565	0.925	-0.306	0.092	1	-83.0	5307	6290
110825863	16.2	15.5	37	6816	291	3.895	0.817	0.309	0.118	1	-83.0	5247	6837
110825919	16.6	15.9	38	7072	286	3.996	0.759	0.406	0.088	9	-83.0	6560	7923
110825944	15.3	14.4	43	5946	148	3.241	0.498	0.511	0.100	1	83.0	5226	8566
110826015	15.0	14.1	27	5204	217	4.128	0.406	0.171	0.149	11	0.0	6803	7950
110826053	14.6	14.0	32	8482	4581	3.450	1.091	0.759	0.168	1	0.0	6575	5682
110826077	15.3	14.5	56	6632	266	3.838	0.762	-0.139	0.098	51	0.0	5339	6784

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>v</i> sin <i>i</i> [km/s]	<i>v_r</i> [km/s]	Teff CaK [K]	Teff Gband [K]
110826078	14.6	13.8	59	7932	174	2.097	0.304	0.759	0.168	43	0.0	6750	7481
110826084	13.6	12.9	59	6564	264	3.831	0.780	-0.127	0.088	1	-83.0	6635	7400
110826178	14.5	13.8	72	6451	253	3.681	0.963	-0.364	0.121	1	0.0	6573	6760
110826189			47	6302	101	4.172	0.219	0.034	0.098	1	0.0	6566	6141
110826277	14.8	14.2	62	6719	100	4.432	0.218	-0.018	0.082	1	-83.0	5312	6998
110826362	15.9	15.1	42	6131	230	4.134	0.320	0.216	0.096	1	0.0	5266	6100
110826411	15.6	14.3	31	5391	100	2.904	0.457	0.614	0.133	1	0.0	6641	5213
110826428	13.8	13.1	57	5720	259	3.513	0.925	-0.493	0.209	11	0.0	5254	5525
110826457	14.0	12.6	101	16200	3983	2.717	0.895	0.101	0.161	5	-166.0	6844	6511
110826526	14.4	13.4	31	5158	213	4.261	0.417	-0.207	0.108	1	-83.0	6606	8259
110826538			178	14729	2319	4.030	0.477	0.531	0.124	1	-83.0	8394	10471
110826597	14.3	13.6	46	6246	101	4.177	0.215	0.038	0.092	1	-83.0	6673	5765
110826657	15.5	14.3	33	5865	226	3.498	0.667	0.384	0.101	11	-166.0	6605	5602
110826697	13.0	12.6	16	10215	4860	3.373	1.096	-0.126	0.929	1	-166.0	6925	8848
110826760	14.5	13.9	69	6952	282	4.094	0.768	0.100	0.086	101	0.0	6677	7529
110826816	16.2	15.5	47	9775	4144	3.339	1.097	0.759	0.168	1	0.0	6611	7776
110826827	13.0	11.8	34	5299	154	3.110	0.623	0.183	0.154	1	0.0	5273	7744
110826855	14.8	14.1	47	6836	288	3.971	0.747	0.291	0.084	31	-83.0	6581	7139
110827054	13.0	12.5	66	6236	254	3.709	0.965	-0.479	0.206	31	83.0	6670	6380
110827118	14.5	13.8	49	6115	100	4.413	0.208	-0.043	0.125	1	0.0	6683	5763
110827128	14.9	14.3	65	6704	275	3.993	0.793	-0.094	0.111	1	0.0	5215	7388
110827236	15.3	14.5	36	5826	281	4.247	0.531	0.490	0.105	81	-83.0	5329	5627
110827348	15.0	14.4	55	6694	255	3.687	0.905	-0.324	0.108	1	-83.0	6550	8737
110827394			49	6387	274	4.063	0.736	-0.091	0.082	1	-83.0	6736	5617
110827500	14.5	13.8	51	6297	297	3.917	0.765	0.079	0.072	141	-83.0	5307	5768
110827506	14.7	13.4	36	5208	170	3.372	0.485	0.105	0.118	1	0.0	6715	8259
110827535	13.1	12.0	40	5590	227	3.406	0.620	-0.025	0.095	9	0.0	6775	5607
110827545	15.4	14.5	36	5704	230	4.573	0.379	-0.255	0.101	1	-166.0	6834	6862
110827619			45	5183	182	3.362	0.648	0.209	0.125	5	0.0	6724	7360
110827669	14.6	13.9	37	5719	99	4.285	0.196	-0.026	0.102	11	-83.0	5285	5286

Table B.1. continued.

CoID	<i>B</i> _{mag} [mag]	<i>V</i> _{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log _e [dex]	Δ log _e [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	<i>v_r</i> [km/s]	Teff CaK [K]	Teff Gband [K]
110827726	13.7	13.1	65	6134	264	3.722	0.946	-0.370	0.156	1	-83.0	6660	6222
110827745	14.1	13.4	49	5536	239	4.310	0.630	-0.484	0.210	11	-83.0	6566	6326
110827769	14.2	13.8	178	7755	300	4.188	0.702	-0.437	0.249	91	0.0	7519	9216
110827789	14.8	14.2	60	6445	267	3.684	0.920	-0.221	0.094	41	-83.0	5343	6584
110827797	16.3	15.5	30	6940	336	4.508	0.326	0.759	0.168	61	0.0	5341	7066
110827828	15.9	15.2	59	6379	100	4.339	0.196	0.017	0.091	1	0.0	6597	5781
110827888	13.0	12.2	64	5910	252	3.969	0.928	-0.485	0.206	111	-166.0	5366	5727
110827969	14.8	14.0	36	5712	228	4.441	0.487	0.115	0.131	1	-83.0	6630	5270
110828027	15.4	14.4	38	5919	255	4.004	0.624	0.348	0.130	7	0.0	5316	5287
110828063	13.8	13.2	54	6389	268	4.034	0.804	-0.091	0.084	1	0.0	6636	6577
110828083	15.3	14.6	67	6271	289	4.162	0.708	0.054	0.093	1	-83.0	5242	6851
110828092	15.2	14.4	29	5941	203	4.325	0.446	0.595	0.116	1	-83.0	6606	5357
110828095	14.5	13.7	44	5769	105	4.328	0.164	-0.060	0.127	23	-83.0	6611	5607
110828202	15.2	14.5	45	5985	286	3.839	0.820	-0.111	0.098	1	0.0	6664	5744
110828250	14.7	14.0	59	6099	270	3.857	0.899	-0.288	0.095	1	0.0	6851	5686
110828328	16.4	15.5	53	6035	262	3.981	0.636	0.402	0.098	121	-83.0	6718	5674
110828388	15.1	14.0	51	17485	638	2.144	0.091	0.294	0.350	1	-913.1	6757	8351
110828394	15.0	14.4	53	6433	259	3.627	0.849	-0.206	0.093	1	0.0	6573	7240
110828464	14.6	14.0	90	6757	272	3.880	0.898	-0.450	0.195	51	0.0	6684	8206
110828517	14.2	13.1	38	5574	98	3.587	0.138	0.026	0.090	1	-83.0	5244	5253
110828529	14.9	14.1	45	6148	282	3.717	0.833	-0.043	0.090	1	-83.0	6610	5712
110828550			40	5537	230	3.668	0.720	-0.165	0.094	1	0.0	5253	5351
110828600	16.7	16.0	52	6289	253	3.864	0.978	-0.384	0.177	1	-83.0	6794	6585
110828605	13.6	12.4	33	5297	216	3.589	0.644	-0.235	0.123	7	0.0	6850	5202
110828629	15.2	13.8	34	5139	100	2.421	0.317	0.363	0.107	11	0.0	5262	6369
110828672	15.0	13.1	32	5633	140	3.849	0.456	0.223	0.113	1	-166.0	6589	5717
110828701	13.9	12.7	47	5519	195	3.929	0.564	-0.155	0.100	3	-83.0	6837	5249
110828745	14.9	14.2	44	6065	256	4.173	0.720	-0.183	0.085	1	-83.0	5352	5633
110828751	15.0	14.4	55	6177	249	3.834	0.970	-0.363	0.113	1	-166.0	5216	5785
110828757	14.6	13.8	127	15092	3316	3.475	0.903	0.759	0.168	1	0.0	8391	14334

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110828797	13.9	13.2	50	6249	100	4.256	0.204	0.008	0.094	1	-83.0	6555	5787
110828894			59	6918	288	3.964	0.799	0.069	0.108	31	-83.0	6759	7697
110828977	16.6	15.8	40	6416	294	3.932	0.798	0.102	0.085	121	-83.0	5325	6170
110828989	13.4	13.2	159	15649	2583	4.346	0.613	0.759	0.168	1	-83.0	8068	9498
110829019	14.4	13.8	55	6816	100	4.294	0.265	-0.007	0.094	1	-83.0	6602	7638
110829026	15.2	14.3	32	5396	156	4.019	0.470	0.384	0.110	1	0.0	6551	5220
110829033	15.3	14.4	40	5546	156	4.485	0.408	-0.249	0.094	11	-83.0	6851	8779
110829053	13.7	12.8	40	5332	184	3.690	0.602	0.284	0.126	1	0.0	5305	5927
110829061	14.0	12.8	42	5171	198	3.722	0.495	-0.077	0.105	1	-83.0	5251	5733
110829090	14.7	14.0	176	6562	276	3.324	0.977	-0.444	0.197	1	-83.0	6719	9331
110829130	14.8	14.2	88	6649	4959	3.390	1.071	-1.296	0.398	11	-83.0	5368	5758
110829273	14.6	13.9	78	6571	263	3.866	0.825	-0.361	0.121	1	-83.0	6595	7149
110829356	14.7	14.0	61	6459	291	3.766	0.935	-0.069	0.083	59	0.0	6549	6727
110829414	14.9	14.3	67	6852	263	3.886	0.893	-0.259	0.107	33	0.0	6579	7511
110829436	15.1	14.4	45	6352	296	3.884	0.755	0.015	0.090	21	-83.0	5288	6486
110829451	14.1	13.1	34	5763	191	3.795	0.591	0.250	0.093	11	-83.0	6617	5427
110829559	16.9	16.0	46	5478	221	3.444	0.629	0.198	0.121	1	0.0	5498	5718
110829565	15.2	14.5	58	6294	272	4.094	0.850	-0.261	0.096	1	0.0	6718	5744
110829573	15.2	14.4	39	6108	268	4.254	0.576	0.284	0.116	1	0.0	6613	5768
110829606	14.6	13.9	51	6822	275	3.913	0.804	0.225	0.099	1	0.0	6631	7499
110829696	15.2	14.5	47	6439	259	3.772	0.808	-0.095	0.114	1	-83.0	5236	6340
110829732	14.7	14.0	61	6375	264	3.721	0.998	-0.264	0.105	1	-83.0	6682	6856
110829781	13.7	13.1	68	9138	2666	3.053	1.061	0.759	0.168	1	0.0	6670	7785
110829824	14.5	13.2	29	5308	131	3.794	0.502	0.459	0.095	1	-166.0	6786	6471
110829888	13.5	12.8	44	5741	243	3.967	0.807	-0.172	0.094	1	-83.0	6636	5713
110829985	14.3	13.6	58	6355	111	4.567	0.197	0.003	0.098	1	0.0	6564	5633
110830018	13.2	12.1	37	5364	164	3.415	0.677	0.102	0.123	1	-83.0	5235	5947
110830062			43	5575	235	3.387	0.704	-0.253	0.132	3	-83.0	6635	6793
110830086			34	5579	226	3.397	0.632	0.233	0.141	15	0.0	5348	5284
110830109	14.1	13.3	56	6470	273	3.739	0.920	-0.114	0.079	1	0.0	5362	6566

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110830154	14.5	13.8	52	6181	273	4.227	0.714	-0.219	0.115	1	0.0	6615	5652
110830156	15.3	14.2	45	19266	419	2.281	0.125	-0.491	0.827	3	-83.0	6695	7672
110830222	14.9	14.3	66	6331	259	3.635	0.919	-0.340	0.071	1	0.0	6602	6825
110830240	13.1	12.6	51	9425	3720	3.178	1.088	0.759	0.168	1	0.0	6602	6997
110830241			56	6734	262	3.863	0.917	-0.142	0.123	41	-83.0	6644	7206
110830242	14.2	13.8	151	13970	2965	3.533	0.753	0.759	0.168	1	-83.0	7485	12442
110830377	13.2	12.7	70	6291	262	3.610	0.983	-0.311	0.090	1	0.0	5364	7216
110830402	15.1	14.5	62	6495	255	3.690	0.952	-0.278	0.102	1	0.0	6553	7262
110830407	14.8	14.2	76	8430	392	4.247	0.516	0.303	0.102	1	0.0	7291	8892
110830409			59	6479	316	3.904	0.776	0.304	0.093	95	-83.0	6646	6712
110830423	15.7	15.0	64	6369	262	3.823	0.938	-0.370	0.132	1	-83.0	6718	6725
110830535	15.2	14.5	51	6966	271	3.946	0.821	0.297	0.075	121	-83.0	5361	8519
110830554	13.6	13.2	116	14352	3144	3.798	0.841	0.759	0.168	1	-83.0	8559	10273
110830597	14.1	13.4	64	6010	267	4.004	0.850	-0.366	0.133	1	-83.0	6674	5663
110830665	14.5	13.3	33	5621	224	3.638	0.632	0.131	0.117	3	-83.0	5349	5239
110830726			67	6539	258	3.773	0.952	-0.275	0.103	1	-83.0	5333	7586
110830740	14.2	13.0	33	5390	101	3.448	0.205	-0.042	0.121	11	0.0	6638	5573
110830849			39	5847	254	4.184	0.646	-0.079	0.102	1	0.0	6725	5615
110830857	12.3	11.6	64	6363	262	3.944	0.976	-0.299	0.091	1	0.0	6570	6313
110830920	12.7	12.0	38	5544	246	4.455	0.464	-0.130	0.125	11	-83.0	6727	5218
110830952	14.6	13.6	37	5200	211	4.289	0.443	-0.258	0.097	1	-83.0	5347	7672
110830972	13.8	13.0	37	5568	250	4.316	0.527	-0.121	0.107	1	0.0	6655	5548
110831025			40	5586	249	4.149	0.666	-0.375	0.175	11	0.0	6615	5285
110831058			45	5101	100	2.780	0.141	0.052	0.124	1	-83.0	6724	6663
110831125	14.4	13.8	80	6971	103	4.654	0.215	-0.021	0.098	61	0.0	6645	7938
110831184	14.7	14.2	57	7257	287	4.165	0.706	0.057	0.105	1	-83.0	6621	8179
110831213	13.8	13.3	71	9001	3038	3.380	1.086	0.759	0.168	1	0.0	6710	8228
110831292	15.9	15.2	58	6411	100	4.252	0.217	-0.064	0.092	89	0.0	5202	6161
110831305	14.9	14.1	55	6320	263	3.705	0.879	-0.247	0.090	1	0.0	6573	6439
110831403	15.4	14.7	57	6101	274	3.920	0.879	-0.301	0.085	1	0.0	6625	5792

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110831408	14.6	14.2	164	8041	361	4.318	0.639	0.213	0.091	191	-83.0	7189	8501
110831479			66	6497	256	3.691	0.943	-0.410	0.195	81	-83.0	5369	7261
110831600	15.3	14.7	55	6460	273	3.904	0.816	-0.140	0.080	1	0.0	5335	6590
110831618			69	6553	266	3.878	0.777	-0.132	0.105	1	0.0	6562	7205
110831676			30	5357	239	4.055	0.460	0.212	0.148	5	0.0	6817	5234
110831677			52	6349	267	3.695	0.947	-0.179	0.084	1	0.0	6577	6932
110831716	14.3	13.8	61	9348	3290	3.112	1.052	0.759	0.168	1	0.0	6627	8624
110831756	12.8	11.8	53	5560	288	3.257	0.812	-0.481	0.210	11	-83.0	6613	5288
110831764	14.8	14.0	56	5682	144	4.504	0.402	-0.382	0.161	11	-83.0	6950	8739
110831768	15.0	14.3	57	6332	101	4.476	0.224	0.022	0.091	91	-83.0	6624	6182
110831995	13.1	12.5	15	10073	4792	3.409	1.092	-0.114	0.775	1	-664.1	5378	5794
110832090	14.4	13.7	50	5862	255	4.236	0.744	-0.407	0.179	1	0.0	6594	5622
110832092			92	13716	3740	3.961	0.846	0.759	0.168	1	-83.0	8413	9876
110832212	15.4	14.0	34	5468	95	3.444	0.215	0.043	0.105	1	-83.0	6772	6945
110832283	15.2	14.4	59	6245	101	4.089	0.201	-0.022	0.095	151	-83.0	6625	5694
110832323			29	5189	169	3.469	0.530	0.317	0.138	1	0.0	6654	7217
110832384	15.8	15.1	51	6377	298	4.013	0.740	0.264	0.099	71	0.0	6684	6235
110832392	14.2	13.5	53	6209	275	4.063	0.816	-0.177	0.104	1	-83.0	5289	5640
110832488			47	5938	274	4.105	0.744	-0.239	0.107	1	0.0	6590	5682
110832542	14.3	13.7	115	6054	580	3.400	1.080	0.804	0.212	1	0.0	5358	5738
110832555			59	6887	100	4.267	0.291	-0.015	0.088	1	0.0	6670	7879
110832589	13.8	13.1	39	5772	103	4.549	0.168	-0.015	0.132	1	-83.0	6689	5372
110832593			38	5847	252	4.135	0.567	0.296	0.122	1	-83.0	6609	5344
110832602			97	6425	272	3.704	0.876	-0.453	0.197	171	-83.0	6579	6749
110832603	14.9	14.2	45	5940	265	4.204	0.725	-0.228	0.123	151	-83.0	6773	5621
110832636	13.3	12.9	93	7998	365	4.102	0.720	0.373	0.080	141	-83.0	6866	8074
110832640	17.6	13.7	43	13482	4110	3.306	1.079	0.759	0.168	1	-913.1	7014	6262
110832689			35	5604	103	4.101	0.181	0.017	0.093	1	-83.0	6612	6849
110832713	14.9	14.2	50	6285	100	4.037	0.211	-0.011	0.072	1	0.0	6604	6071
110832736	15.3	14.5	33	5466	237	4.112	0.468	0.388	0.094	1	0.0	5364	6672

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	$v \sin i$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110832762			35	5367	220	3.416	0.658	-0.054	0.105	1	-83.0	6638	17790
110832768	12.4	11.8	57	6057	264	3.860	0.924	-0.339	0.113	31	0.0	6590	5750
110832772	13.4	12.8	45	7208	285	4.071	0.702	0.558	0.133	1	0.0	6571	7482
110832796	12.3	11.8	71	6462	254	3.604	0.935	-0.387	0.160	1	-83.0	6564	6854
110832862	15.2	14.5	48	6857	265	3.853	0.886	-0.072	0.115	1	-83.0	6631	7439
110832920	14.4	13.8	72	6312	264	3.874	0.906	-0.458	0.198	1	0.0	5331	6218
110833049	15.0	14.2	53	6211	263	3.975	0.886	-0.231	0.084	41	0.0	6602	5777
110833074	17.6	16.2	38	13279	4254	3.260	1.094	0.390	0.347	1	-83.0	7189	6416
110833107	14.4	13.8	81	6735	274	3.799	0.887	-0.220	0.126	81	83.0	6595	7764
110833165	14.8	14.1	40	6050	102	4.492	0.185	0.034	0.097	1	0.0	6615	5646
110833177	14.6	14.1	80	7162	286	4.032	0.780	0.081	0.103	61	0.0	6643	7795
110833239	14.8	14.2	67	6735	257	3.813	0.939	-0.274	0.129	1	-83.0	5269	7752
110833264	16.2	15.4	39	6325	325	3.868	0.740	0.433	0.067	131	-83.0	5323	5792
110833278	14.5	13.0	29	12132	4384	3.337	1.092	0.274	0.403	1	-83.0	6760	6301
110833306	NaN	11.7	13	9935	4791	3.398	1.093	-0.110	0.845	1	-166.0	5584	6649
110833356			36	5867	101	4.709	0.160	0.022	0.105	1	0.0	6629	6310
110833452	14.4	13.8	106	6349	268	3.715	0.910	-0.465	0.223	191	0.0	5374	6849
110833555	13.0	12.5	61	7148	280	4.067	0.725	0.259	0.090	13	-83.0	6734	7618
110833560	16.2	15.3	42	5988	291	3.898	0.641	0.513	0.115	111	0.0	6593	5677
110833575	14.2	13.5	44	5911	104	4.316	0.182	0.031	0.083	1	0.0	6561	5718
110833585	14.0	13.3	48	6139	284	4.118	0.724	-0.065	0.115	1	83.0	6653	5616
110833632	14.1	13.0	37	5420	213	3.570	0.649	-0.131	0.094	1	-83.0	5356	7810
110833704			70	6884	267	3.784	0.919	-0.234	0.111	1	-83.0	6683	8214
110833727	12.9	12.4	51	6382	100	4.642	0.167	-0.041	0.086	11	-83.0	6636	5740
110833745	13.6	13.0	52	6364	262	3.673	0.918	-0.182	0.087	1	-83.0	5225	6627
110833752	14.9	14.3	76	6416	253	3.588	0.965	-0.413	0.191	1	-83.0	6672	7032
110833756	15.4	14.6	32	5497	209	4.038	0.460	0.187	0.150	7	-83.0	6559	6556
110833815	13.7	13.4	91	8270	396	4.287	0.598	0.299	0.086	1	-83.0	6962	9336
110833871	14.5	12.8	35	5171	111	3.414	0.181	0.091	0.133	1	-83.0	5358	6722
110833876	13.4	12.9	74	6246	259	3.555	0.914	-0.501	0.239	191	-83.0	5367	6408

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110833878	14.6	13.9	68	6533	280	3.957	0.730	-0.117	0.107	41	-83.0	5329	6679
110833885	16.0	14.1	32	5596	170	3.654	0.573	0.339	0.098	1	-83.0	6681	5637
110833982	15.0	14.4	67	6459	264	3.966	0.757	-0.138	0.091	71	0.0	6605	6623
110834032	15.0	14.4	48	6797	274	3.891	0.828	0.142	0.085	1	0.0	5343	7405
110834129	14.6	14.0	85	6374	259	3.674	0.948	-0.485	0.215	131	-83.0	5372	6809
110834136			42	5814	245	4.381	0.625	0.111	0.113	1	-83.0	5207	5609
110834191	15.5	14.4	35	5497	162	3.621	0.584	0.351	0.114	11	-83.0	6606	6344
110834477	14.1	13.5	64	6623	264	3.909	0.781	-0.155	0.099	1	0.0	5233	7243
110834538	16.1	15.4	52	6895	98	4.411	0.272	-0.009	0.110	1	-83.0	6795	7042
110834560	14.7	14.1	71	7209	114	4.639	0.243	-0.027	0.127	1	0.0	6645	8347
110834599	17.2	16.3	41	7708	4028	3.355	1.065	0.463	0.097	15	0.0	6815	6563
110834695			32	5215	157	3.258	0.610	0.236	0.141	1	0.0	6695	6855
110834753			41	5973	285	4.041	0.652	0.188	0.126	1	0.0	6665	5632
110834908	13.8	13.2	90	5935	807	2.975	1.264	-1.018	0.269	29	-83.0	6827	5368
110834961	14.7	13.7	36	5542	218	3.969	0.605	0.093	0.118	1	0.0	6686	6329
110834992			46	5980	249	3.905	0.680	0.063	0.115	1	0.0	6621	5392
110835004	14.9	14.0	35	5421	217	4.557	0.379	-0.369	0.119	1	83.0	6858	8025
110835009	16.4	15.7	78	6788	102	4.633	0.239	0.035	0.094	1	-83.0	6707	8336
110835041	15.5	14.5	41	5674	253	3.532	0.618	0.236	0.115	3	0.0	6604	6331
110835132	14.1	13.4	58	6469	281	3.775	0.798	-0.085	0.074	81	0.0	6602	6560
110835335			37	5284	118	3.281	0.364	0.268	0.121	11	0.0	6657	6063
110835361	15.6	14.2	50	5403	191	3.559	0.604	-0.321	0.098	11	0.0	5369	7077
110835493	14.3	13.1	36	5341	99	3.651	0.192	0.010	0.110	1	-83.0	6635	6637
110835581			55	7349	271	4.201	0.727	0.302	0.111	1	-83.0	6670	8310
110835592			73	6916	100	4.373	0.296	0.096	0.105	75	-83.0	6709	9004
110835645	14.6	13.8	48	6242	288	3.744	0.781	0.233	0.090	1	-83.0	6617	5789
110835664	14.4	13.8	50	6021	255	3.818	0.929	-0.472	0.202	1	-83.0	5282	5731
110835712	13.9	12.6	32	5353	157	3.400	0.594	0.359	0.108	11	-83.0	6647	7011
110835722			33	5147	212	4.328	0.392	0.140	0.138	1	0.0	6671	8951
110835737			44	5295	156	3.740	0.643	-0.269	0.103	1	0.0	6729	7158

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log g [dex]	Δ log g [dex]	M/H [dex]	Δ M/H [dex]	$v \sin i$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110835741			61	7325	290	4.001	0.790	0.141	0.124	1	0.0	6810	8917
110835753	13.5	12.7	48	5684	221	4.340	0.571	-0.487	0.207	11	-83.0	6621	5846
110835818	14.7	13.5	46	5436	180	4.082	0.398	-0.363	0.120	7	0.0	6799	6076
110836043	14.9	14.2	97	7270	300	4.295	0.590	0.386	0.062	191	-83.0	6706	7361
110836085	12.7	12.2	71	6540	260	3.848	0.883	-0.182	0.103	111	-83.0	6583	6896
110836118	13.6	12.9	58	6810	278	3.884	0.837	0.115	0.095	1	-83.0	6558	7144
110836232	13.9	13.0	37	5647	235	4.492	0.455	-0.341	0.092	1	83.0	6658	7239
110836241	15.0	14.4	65	6651	264	3.713	0.962	-0.176	0.095	1	-83.0	6593	7403
110836268	16.0	15.4	62	7054	281	3.983	0.792	0.280	0.070	131	-83.0	6619	8295
110836277	14.8	14.1	59	6656	312	3.888	0.756	0.378	0.085	171	-83.0	6574	6645
110836278	14.6	13.9	54	6394	298	3.832	0.791	0.225	0.123	1	0.0	6596	6140
110836401	15.5	14.8	48	5732	227	4.446	0.558	-0.415	0.184	1	-166.0	6611	5588
110836525	NaN	12.4	63	6546	258	3.799	0.905	-0.305	0.117	87	-83.0	6726	7115
110836561	15.9	15.2	83	6407	299	3.876	0.845	-0.397	0.162	1	-83.0	6656	9483
110836592	NaN	12.1	19	10392	4576	3.358	1.094	-0.020	0.668	1	0.0	5457	7139
110836689	14.0	13.5	73	6527	262	3.754	0.967	-0.287	0.091	1	0.0	6578	7536
110837005	14.7	13.9	46	6473	100	4.280	0.214	0.024	0.092	1	-83.0	6670	6437
110837006	15.8	15.1	75	5540	124	2.939	1.283	-0.962	0.262	35	0.0	6594	6260
110837125	15.1	14.0	57	6376	100	4.228	0.204	-0.011	0.070	81	-83.0	6619	6209
110837214	14.6	13.8	40	5551	236	4.188	0.509	0.188	0.118	1	-166.0	6637	5637
110837287	14.4	13.8	67	6971	275	4.019	0.848	0.075	0.085	51	0.0	6654	7869
110837323	15.2	14.6	57	6301	275	3.864	0.891	-0.222	0.087	1	0.0	6628	6080
110837424	15.6	14.8	37	6385	297	4.004	0.686	0.300	0.093	111	0.0	6714	5768
110837430	14.1	13.4	60	6442	100	4.063	0.225	-0.032	0.111	51	0.0	6604	6546
110837523	15.0	14.5	67	13195	4115	3.763	0.977	0.759	0.168	1	-83.0	8272	9931
110837581	15.0	14.3	88	16151	2546	2.315	0.887	0.759	0.168	1	-249.0	6609	5652
110837583	14.4	13.8	64	6280	258	3.674	0.936	-0.289	0.094	11	-83.0	5360	6572
110837743			65	7100	106	4.547	0.273	-0.001	0.090	1	-83.0	6641	7032
110837760	15.1	14.0	43	5490	197	3.591	0.670	0.122	0.120	1	0.0	5319	7342
110837843	14.7	13.9	47	6108	278	4.090	0.725	-0.093	0.104	91	0.0	6635	5638

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110837865	14.6	13.9	44	6177	309	3.754	0.723	0.373	0.092	151	0.0	6647	5761
110837941	13.6	12.7	42	5474	168	3.810	0.549	0.137	0.122	1	0.0	5338	6604
110837959	13.1	12.5	55	6424	270	4.026	0.779	-0.107	0.123	1	0.0	5333	6060
110837965	15.2	14.5	77	6306	266	3.810	0.876	-0.375	0.134	1	0.0	6630	6301
110837967	15.8	15.1	66	6327	267	3.750	0.940	-0.389	0.172	111	-83.0	6664	6418
110838030	14.5	14.0	56	6156	292	3.930	0.782	-0.099	0.100	91	-83.0	6572	5698
110838100	14.0	13.4	57	6180	311	3.558	0.810	0.083	0.095	151	0.0	5223	6305
110838153	15.1	14.4	63	6455	274	3.860	0.895	-0.219	0.112	1	0.0	6627	6650
110838180			51	9189	3424	3.327	1.084	0.759	0.168	1	-83.0	6797	8788
110838184	14.1	13.2	52	5703	177	3.999	0.698	-0.400	0.174	11	0.0	6713	5208
110838280	14.2	13.7	54	5972	265	3.953	0.865	-0.409	0.175	1	-83.0	6578	5763
110838309	15.2	14.5	50	6136	293	3.938	0.767	0.085	0.087	71	0.0	6570	5756
110838409			53	7001	283	3.921	0.864	0.171	0.086	61	0.0	6620	7642
110838429	15.1	14.3	40	5842	261	4.213	0.643	-0.056	0.139	1	0.0	6561	5677
110838462	12.9	12.5	105	7752	104	4.695	0.253	0.032	0.096	51	-83.0	6922	8630
110838488	14.9	14.4	47	6983	281	3.961	0.823	0.240	0.106	1	0.0	6652	7617
110838502			104	8153	360	4.241	0.659	0.307	0.106	41	0.0	6933	8874
110838584	14.7	14.1	58	6425	278	3.794	0.830	-0.119	0.083	1	-83.0	6552	6450
110838617	14.6	14.1	67	6974	101	4.388	0.289	0.062	0.091	39	-83.0	6595	8456
110838648	14.3	13.4	35	5273	206	4.495	0.367	-0.395	0.180	11	0.0	6606	8437
110838682	15.7	15.0	50	6236	271	3.682	0.987	-0.106	0.080	21	-166.0	5372	6191
110838753			96	8358	204	2.157	0.283	0.541	0.126	1	-83.0	6815	9262
110838777			53	6335	271	3.866	0.816	-0.117	0.096	1	0.0	6666	6270
110838790	15.5	14.6	47	6455	276	3.978	0.887	-0.217	0.093	1	83.0	5268	5743
110838885			160	8243	476	4.123	0.636	-0.207	0.115	31	-83.0	7299	9870
110838925	12.9	12.6	191	14656	2624	3.955	0.661	0.759	0.168	191	0.0	8612	10246
110838932	15.0	13.7	36	5794	204	3.153	0.588	0.434	0.064	11	-83.0	6691	5689
110838934			55	6320	274	3.803	0.838	-0.104	0.087	1	0.0	6610	6628
110838967	15.1	14.5	43	6771	279	3.883	0.800	0.078	0.132	1	0.0	6709	7976
110838988	14.0	13.4	54	6102	263	3.930	0.906	-0.306	0.091	1	0.0	6654	6006

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	$v \sin i$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110839012	14.0	13.3	52	5658	291	3.245	0.747	-0.339	0.111	7	0.0	6585	5707
110839063	14.8	13.3	44	7106	299	4.481	0.425	0.497	0.105	7	-83.0	6976	6115
110839089	13.5	12.4	35	5395	100	3.232	0.144	-0.023	0.103	11	83.0	5282	5228
110839100	15.0	13.9	40	5565	99	3.863	0.178	0.005	0.090	1	-83.0	6674	5888
110839187	14.3	13.7	73	6729	272	3.771	0.896	-0.206	0.109	1	-83.0	6565	8212
110839211	14.9	14.3	64	6865	101	4.284	0.285	0.071	0.122	39	0.0	6596	7559
110839358	15.2	14.5	53	5845	262	4.069	0.817	-0.272	0.097	1	-83.0	6668	5632
110839445	14.5	13.3	35	5635	224	3.640	0.697	-0.065	0.111	1	0.0	6636	6024
110839549	15.1	14.3	42	5165	229	4.216	0.541	-0.525	0.221	11	-83.0	5353	6619
110839568	14.1	12.8	36	18227	1300	2.218	0.274	0.112	0.311	13	0.0	6621	5209
110839608	13.5	12.2	36	5516	155	3.521	0.567	0.379	0.093	1	0.0	6780	5348
110839665	13.1	12.5	68	6510	274	4.031	0.747	-0.129	0.092	1	-83.0	6573	6636
110839769	15.4	14.7	55	5684	245	4.038	0.847	-0.515	0.208	11	83.0	5304	5658
110839776	13.7	13.1	53	6342	319	3.692	0.827	0.337	0.104	39	0.0	6583	6096
110839808	15.0	14.3	57	6795	270	3.923	0.868	-0.121	0.095	1	0.0	5330	7621
110839935	NaN	12.2	58	5957	264	3.543	0.723	0.021	0.100	101	83.0	5329	5529
110839939	14.3	13.6	41	6165	315	3.767	0.709	0.580	0.127	161	83.0	6670	6129
110839978	13.6	12.5	43	5994	262	3.763	0.694	0.183	0.091	1	0.0	5345	5621
110840001	14.8	14.1	45	6037	271	4.034	0.765	-0.054	0.121	1	0.0	6662	5703
110840027	16.7	16.0	49	6139	258	3.725	0.953	-0.381	0.130	1	0.0	6593	6514
110840062	15.4	14.4	30	5173	158	4.173	0.321	0.266	0.140	11	-83.0	6604	6271
110840112			69	6789	261	3.874	0.859	-0.079	0.094	1	0.0	6680	7723
110840120	15.0	14.2	48	6220	278	3.959	0.768	-0.085	0.085	1	0.0	6715	5726
110840150	15.2	14.3	34	5347	232	4.029	0.489	0.237	0.143	1	0.0	5239	6369
110840162	14.3	13.7	54	6160	266	4.099	0.837	-0.311	0.093	1	-83.0	6590	5711
110840164	15.2	14.5	52	6154	288	4.105	0.794	-0.169	0.104	1	-83.0	6675	5735
110840462			51	6194	270	3.926	0.789	-0.086	0.081	1	0.0	6620	5696
110840573	16.5	15.7	49	6034	254	4.091	0.847	-0.352	0.079	1	0.0	6589	5687
110840633			36	5599	101	3.855	0.197	0.009	0.104	1	83.0	6802	8323
110840641	13.8	13.3	59	6645	259	3.746	0.995	-0.176	0.115	1	-83.0	6615	6953

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110840654	14.7	13.9	47	6140	307	3.555	0.723	0.009	0.113	27	-83.0	6575	5718
110840782	14.8	14.1	41	5952	284	3.886	0.637	0.431	0.074	161	-83.0	6654	5642
110840818	14.9	14.2	59	6192	252	3.951	0.908	-0.369	0.158	1	0.0	6695	5724
110840959	14.5	13.3	35	5539	274	3.322	0.639	0.198	0.144	11	-83.0	5367	5210
110840970	15.6	14.5	41	5487	256	3.825	0.750	-0.331	0.081	1	-83.0	6659	6621
110840971	14.3	13.8	76	8070	366	4.442	0.512	0.548	0.129	1	-83.0	6999	8880
110841034	14.9	14.2	42	5732	281	3.734	0.696	0.234	0.128	1	0.0	6705	5651
110841052	13.7	13.2	68	6825	264	3.819	0.915	-0.080	0.093	1	-83.0	6621	7302
110841065			155	5940	489	3.529	1.121	-1.053	0.278	71	0.0	6688	5786
110841143	15.1	14.4	55	6176	267	3.979	0.878	-0.191	0.112	1	0.0	6597	5754
110841217	13.5	12.0	28	5680	138	2.568	0.369	0.244	0.120	1	0.0	6623	6071
110841435	15.2	14.5	44	6027	267	4.070	0.797	-0.202	0.099	1	0.0	6627	5688
110841503	15.2	14.0	44	5365	100	3.498	0.209	-0.259	0.109	5	-83.0	7142	5352
110841515	13.4	12.4	32	5202	213	4.270	0.419	-0.102	0.121	1	-83.0	6683	7763
110841556	14.8	14.1	103	18991	873	2.541	0.421	-1.947	0.557	1	-83.0	7634	9211
110841612	14.1	13.5	51	6417	297	3.922	0.789	0.377	0.084	145	0.0	6570	6351
110841671	14.8	14.1	54	6170	267	3.824	0.912	-0.262	0.091	1	-166.0	6696	5752
110841744	14.0	13.4	74	6675	263	3.824	0.928	-0.321	0.100	51	0.0	6548	7213
110841774			97	7555	297	4.130	0.840	0.012	0.108	27	0.0	6857	9274
110841978	14.3	13.9	88	7611	299	4.260	0.730	0.367	0.095	121	-83.0	6797	8972
110842244	14.6	14.0	61	6855	296	4.003	0.768	0.186	0.089	111	0.0	6590	7001
110842257	14.9	14.3	65	6148	246	3.759	0.979	-0.431	0.190	1	0.0	5285	6127
110842261	15.1	14.5	49	6865	307	4.000	0.807	0.130	0.210	191	83.0	6709	7299
110842274	15.7	14.9	48	6300	219	4.149	0.540	0.522	0.112	1	0.0	5328	6111
110842296	15.1	14.2	31	5180	218	4.066	0.397	0.280	0.132	9	0.0	6738	7486
110842337	14.7	14.0	57	6474	295	3.967	0.845	0.123	0.094	111	-83.0	6566	6222
110842471	13.9	13.2	80	6912	315	4.058	0.712	0.380	0.090	171	-83.0	6576	7099
110842482	13.9	13.1	62	6160	262	3.636	0.948	-0.353	0.105	1	0.0	6637	6113
110842589	14.3	13.7	65	7052	101	4.342	0.286	0.031	0.095	1	-83.0	5334	8312
110842593	15.8	15.0	44	6242	268	4.170	0.742	-0.066	0.099	1	-83.0	5282	5725

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log g [dex]	Δ log g [dex]	M/H [dex]	Δ M/H [dex]	$v \sin i$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110842990			71	6583	262	3.893	0.924	-0.190	0.092	91	-83.0	6610	6981
110843094			120	8272	447	2.799	0.634	-0.027	0.142	137	-83.0	7540	8903
110843123			83	8168	355	4.192	0.678	0.289	0.087	121	-83.0	6905	8746
110843250			98	7818	348	4.130	0.719	-0.235	0.117	41	0.0	7093	8734
110843254	15.0	14.4	48	6413	273	3.696	0.880	-0.184	0.091	61	-83.0	5201	6806
110843260	13.8	13.2	53	6058	283	3.994	0.779	-0.072	0.073	51	0.0	6577	5726
110843316	14.2	13.6	63	6758	281	4.091	0.775	0.072	0.081	61	0.0	6591	6245
110843359	15.1	14.2	34	5500	212	3.954	0.526	0.294	0.125	3	83.0	5285	6586
110843436	16.1	14.6	38	5293	167	3.274	0.430	0.297	0.119	1	0.0	6634	5311
110843586			60	6179	266	3.559	0.976	-0.382	0.165	1	0.0	6668	6838
110843616	13.9	12.7	33	5808	181	3.649	0.662	0.357	0.097	11	0.0	5263	6963
110843631	16.5	15.6	51	6304	269	3.849	0.920	-0.194	0.094	1	0.0	6660	6269
110843701	13.0	12.4	48	6238	286	3.970	0.784	-0.062	0.113	1	0.0	6599	5714
110843799	13.2	12.6	64	5928	279	3.609	0.906	-0.396	0.166	41	83.0	6594	5784
110843848	15.2	13.5	34	13106	4218	3.298	1.080	0.993	0.653	41	-166.0	6725	6126
110843911	17.0	16.3	47	6842	270	3.888	0.889	-0.227	0.120	1	-83.0	6711	7615
110843935	16.0	15.4	39	7160	271	4.253	0.645	0.473	0.098	31	-83.0	6631	7691
110843991	13.9	13.3	45	6233	100	4.468	0.186	0.040	0.098	1	-83.0	6598	5780
110844054	15.8	15.1	48	6304	323	4.064	0.686	0.377	0.091	1	0.0	6574	5748
110844068	13.6	13.0	67	6316	264	3.607	0.956	-0.273	0.099	1	0.0	6632	7438
110844206	13.0	12.5	60	6120	249	3.677	0.981	-0.390	0.156	1	0.0	5348	6078
110844463			48	5363	161	3.398	0.672	-0.339	0.100	11	0.0	6711	6971
110844805	14.8	14.2	67	6504	260	3.782	0.973	-0.174	0.107	1	0.0	6602	7185
110844836	12.1	11.4	68	6538	253	3.681	0.981	-0.315	0.094	1	-83.0	6633	7456
110844978	16.0	15.3	57	6661	263	3.734	0.900	-0.166	0.091	1	-83.0	5301	7077
110844986			66	6468	260	3.709	0.996	-0.192	0.096	1	0.0	6642	7033
110845109			68	6363	264	3.772	0.933	-0.176	0.112	1	-83.0	6608	6465
110845208			63	6880	100	4.398	0.262	-0.005	0.097	61	0.0	6626	7254
110845211	13.9	13.2	66	6274	264	3.778	0.900	-0.183	0.088	71	-83.0	5352	6374
110845333	14.9	14.2	46	5937	251	4.063	0.812	-0.197	0.099	1	0.0	6602	5642

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v_{ini} [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110845381	16.1	15.3	58	6845	330	4.179	0.562	0.475	0.097	81	0.0	5356	6980
110845417	14.6	13.9	58	6354	275	3.897	0.806	-0.083	0.097	111	-83.0	6624	6741
110845420	16.0	15.4	54	6402	313	4.018	0.689	0.495	0.104	161	0.0	6561	6153
110845511			82	7474	308	4.135	0.800	0.184	0.085	81	-83.0	6746	8720
110845596			59	6257	255	3.928	0.987	-0.338	0.101	1	0.0	6605	6552
110845615	15.2	14.2	32	5086	102	3.924	0.140	-0.021	0.150	11	0.0	6690	8116
110845648	13.6	12.5	30	5756	186	3.567	0.606	0.486	0.105	1	0.0	5215	5366
110845750	13.6	12.8	44	5948	267	4.078	0.709	-0.040	0.079	11	0.0	6674	5314
110845774	15.3	14.3	45	5563	265	3.785	0.732	-0.190	0.094	1	0.0	6651	6719
110845806	15.5	14.5	35	5562	263	4.038	0.588	0.161	0.128	3	0.0	6583	6328
110845811	13.6	12.9	39	6230	302	3.873	0.752	0.161	0.093	1	0.0	6604	5714
110846009	15.3	14.3	46	5650	275	3.595	0.773	-0.318	0.108	1	-83.0	6565	6508
110846111	14.4	13.8	59	6526	261	3.692	0.968	-0.322	0.115	1	0.0	6581	7420
110846217			58	6781	365	4.287	0.587	0.529	0.121	61	83.0	6815	6228
110846254	14.7	13.4	46	5046	119	2.985	0.580	-0.089	0.106	1	83.0	6697	6000
110846331			41	5434	145	4.092	0.271	-0.186	0.095	3	-83.0	6644	5511
110846339	17.0	16.1	51	14155	4043	3.161	1.085	-0.360	0.995	1	0.0	6908	6772
110846427			32	5147	208	4.071	0.424	0.192	0.140	1	0.0	6590	7756
110846461	14.5	13.8	43	6000	100	4.641	0.163	0.031	0.119	1	0.0	6657	5236
110846476	14.2	13.4	32	5731	262	4.252	0.580	0.097	0.117	1	0.0	6737	5388
110846518	13.0	12.5	80	6751	264	3.855	0.907	-0.119	0.096	71	0.0	6596	7507
110846559	15.4	14.2	39	5337	146	3.736	0.610	-0.138	0.127	11	-83.0	6729	6969
110846650	14.8	14.2	59	6776	303	3.947	0.810	0.234	0.073	1	0.0	6639	7542
110847681			44	5274	156	3.655	0.576	-0.145	0.114	11	-83.0	6702	7759
110847775	12.9	12.3	55	6144	266	3.843	0.900	-0.180	0.083	1	0.0	6631	5768
110847785	14.5	13.8	57	6350	279	3.696	0.829	-0.134	0.094	51	0.0	6619	6910
110847790	17.1	16.3	28	8649	4731	3.435	1.113	0.740	0.197	1	0.0	6682	6480
110847821	14.5	14.0	91	7338	302	4.159	0.714	-0.200	0.106	41	-83.0	6768	7640
110847867			70	6338	272	3.624	0.900	-0.202	0.101	1	0.0	6597	7116
110847957	15.7	15.0	39	6386	293	3.840	0.771	0.163	0.130	1	0.0	5338	6144

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	log g [dex]	Δ log g [dex]	M/H [dex]	Δ M/H [dex]	$v \sin i$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110847967			49	6175	282	3.860	0.782	0.097	0.083	71	-83.0	6637	5702
110848037	17.2	16.4	50	7986	170	2.562	0.393	0.759	0.168	137	-83.0	6706	7262
110848041	15.1	14.3	36	5244	202	4.517	0.368	-0.824	0.342	5	83.0	6564	8395
110848336	15.1	13.9	33	5379	101	3.662	0.188	-0.040	0.116	11	-83.0	6734	7184
110848427			45	13813	4101	3.202	1.093	-0.580	0.926	1	-996.1	5220	5749
110848576	15.3	14.7	45	6723	273	4.049	0.726	0.290	0.117	29	-83.0	5303	6419
110848589	16.1	15.4	65	6799	269	3.847	0.850	-0.271	0.099	1	-83.0	6688	7905
110848591	15.0	14.3	62	10017	4086	3.501	0.972	0.759	0.168	1	0.0	6696	7381
110848846	15.0	14.3	48	6573	311	3.906	0.747	0.501	0.108	131	-83.0	6675	5791
110848935	14.8	14.1	52	5889	257	3.936	0.885	-0.435	0.188	1	83.0	6688	5676
110849047	13.3	12.8	68	7031	313	4.051	0.781	0.175	0.106	131	0.0	6652	8191
110849644	15.2	14.4	42	5842	99	4.483	0.188	-0.013	0.138	11	0.0	6673	6690
110849966	15.9	15.1	39	6159	299	4.000	0.754	0.125	0.096	131	-83.0	6665	5724
110849998	13.8	13.1	67	6008	296	3.991	0.778	-0.108	0.090	61	-83.0	6675	5683
110850047	14.2	12.9	63	15286	3354	2.926	0.893	0.759	0.168	1	664.1	6994	5559
110850208	16.3	15.4	34	5931	290	4.050	0.632	0.311	0.133	1	-83.0	5292	5356
110850216	13.9	13.2	58	5990	247	4.162	0.682	-0.099	0.095	161	0.0	6575	5287
110850276			80	6844	270	3.842	0.874	-0.066	0.105	1	0.0	6607	8014
110850324	15.6	14.8	53	6295	296	3.871	0.771	0.190	0.095	87	0.0	5362	6386
110850381	14.8	14.1	43	6342	306	3.809	0.798	0.190	0.109	1	0.0	6714	6498
110850415	13.1	12.0	33	5700	99	3.580	0.223	0.046	0.121	1	0.0	6692	5303
110850424	13.8	13.2	59	6360	262	3.694	0.929	-0.189	0.106	41	-83.0	5354	6621
110850589	12.9	11.8	39	5552	180	3.352	0.709	0.139	0.126	1	83.0	6556	6777
110850609	16.9	16.1	40	6268	276	3.809	0.889	-0.175	0.128	1	-83.0	6570	6015
110850610			85	6580	276	3.924	0.766	-0.117	0.099	181	-83.0	6607	8191
110850642			48	6189	287	4.118	0.735	-0.097	0.081	1	83.0	6680	5615
110850643	14.5	13.9	61	9408	3564	3.114	1.076	0.759	0.168	1	0.0	6630	6997
110850681			43	5846	271	4.076	0.761	-0.355	0.103	1	0.0	6657	5644
110850751	14.7	14.0	57	6326	272	3.622	0.915	-0.102	0.109	41	-83.0	5320	6899
110850856			59	10251	4511	3.644	0.925	0.759	0.168	1	0.0	6607	7392

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110850928	14.7	14.0	39	13959	4389	3.145	1.075	0.291	0.491	191	415.1	6711	5674
110850968	14.2	13.6	31	9051	4498	3.427	1.091	0.759	0.168	1	0.0	6596	6816
110850974	13.9	12.8	39	5402	117	3.105	0.586	-0.011	0.121	9	0.0	5314	7699
110851034	13.4	12.7	46	5995	262	4.253	0.660	-0.102	0.118	1	-83.0	6657	5529
110851050	14.1	12.4	23	5340	166	3.844	0.423	0.483	0.101	3	-83.0	6576	5240
110851095			52	6182	298	4.167	0.669	0.215	0.103	141	0.0	6657	5692
110851270			62	6729	261	3.879	0.899	-0.089	0.095	1	-83.0	6635	7152
110851294	15.5	14.8	61	6617	261	3.600	0.945	-0.403	0.163	1	-83.0	6592	7358
110851305			37	5506	221	3.339	0.672	0.224	0.141	11	-83.0	6685	5276
110851351	12.8	12.1	47	6019	101	4.426	0.185	-0.002	0.117	1	0.0	6568	5617
110851408	15.1	14.3	40	5504	248	4.434	0.476	-0.085	0.142	1	0.0	6639	6414
110851425	14.7	14.0	73	6146	114	4.323	0.224	-0.109	0.096	81	0.0	5292	5772
110851707	13.8	12.7	36	5550	106	3.669	0.211	0.043	0.107	1	-83.0	6691	5566
110851800	14.8	14.1	56	6356	299	4.067	0.808	0.102	0.108	1	0.0	6595	5766
110851908	14.8	14.2	64	7063	293	3.829	0.966	-0.261	0.126	1	0.0	6614	8343
110851992			55	6384	267	3.707	0.853	-0.092	0.080	1	-83.0	6664	6524
110851999	13.8	12.7	31	5569	128	3.373	0.644	0.394	0.075	1	-83.0	6584	5329
110852157	14.4	13.7	43	6419	280	3.952	0.745	0.180	0.088	1	83.0	6646	5773
110852179	14.6	14.0	55	6388	315	4.094	0.700	0.209	0.109	71	0.0	6651	5776
110852516			27	5074	135	3.120	0.528	0.432	0.087	1	0.0	5252	6470
110852785	15.3	14.6	55	6354	265	3.810	0.943	-0.326	0.082	1	0.0	5320	6647
110852816	15.7	15.0	66	6795	288	3.950	0.799	0.201	0.059	181	-83.0	6671	7388
110852861	16.2	15.5	37	6789	292	3.916	0.728	0.297	0.138	1	-83.0	5205	7249
110852944			31	5471	100	2.751	0.417	0.426	0.083	11	0.0	6801	8030
110853000	14.0	13.3	57	6317	301	3.961	0.760	0.199	0.100	141	0.0	6656	6133
110853095	14.2	12.8	30	5026	89	3.845	0.228	-0.118	0.093	1	-83.0	6814	5973
110853099			57	5973	259	3.909	0.888	-0.381	0.152	1	0.0	6599	5725
110853135	15.0	14.4	98	13842	3731	4.093	0.826	0.759	0.168	161	0.0	8208	9917
110853234	13.9	13.0	50	5586	100	3.629	0.197	-0.140	0.117	23	83.0	6722	5451
110853278			60	6711	276	3.984	0.801	0.119	0.070	71	0.0	6615	6987

Table B.1. continued.

CoID	<i>B</i> <i>mag</i> [mag]	<i>V</i> <i>mag</i> [mag]	S/N	Teff [K]	Δ Teff [K]	log <i>g</i> [dex]	Δ log <i>g</i> [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	<i>v_r</i> [km/s]	Teff CaK [K]	Teff Gband [K]
110853323	14.8	14.2	64	6903	279	3.901	0.801	0.120	0.068	101	0.0	6619	8253
110853363	13.6	13.1	100	7838	346	4.276	0.644	0.253	0.097	27	0.0	6930	8406
110853396	15.1	14.4	51	7028	277	3.916	0.865	-0.116	0.127	1	-83.0	6637	8596
110853417	16.5	15.7	39	5958	311	3.729	0.678	-0.085	0.104	73	0.0	5365	5766
110853422	13.8	12.5	25	5198	197	3.635	0.485	0.368	0.112	7	0.0	6603	6629
110853440			78	6596	270	3.760	0.952	-0.371	0.147	1	0.0	6643	7195
110853456	15.2	14.5	68	6385	254	3.555	0.943	-0.455	0.197	31	-83.0	6593	6942
110853610	16.2	15.4	35	7073	325	4.069	0.756	0.470	0.100	1	-82.9	6625	7334
110853885	12.9	12.2	54	6028	262	4.024	0.827	-0.314	0.090	1	-83.0	6589	5650
110853892	13.8	12.7	47	5193	165	3.695	0.383	0.079	0.123	1	-83.0	6730	6167
110853895	14.8	14.2	69	5914	268	3.766	0.907	-0.457	0.199	151	0.0	6602	5710
110854082	13.7	12.7	49	5531	195	3.818	0.535	-0.031	0.116	7	0.0	6616	7105
110854091			72	7919	346	4.201	0.646	0.240	0.094	1	0.0	6799	9163
110854096	14.5	13.2	33	5373	100	3.521	0.201	-0.027	0.095	1	-83.0	6749	5752
110854127	16.4	15.7	44	7017	303	4.078	0.765	0.351	0.105	21	0.0	6638	7402
110854231			48	6474	107	4.334	0.206	0.094	0.105	67	0.0	5206	5779
110854256	14.7	14.1	64	6822	267	3.800	0.868	-0.103	0.104	1	0.0	6743	7952
110854429	14.6	13.4	34	5430	100	3.307	0.213	0.001	0.096	1	0.0	5368	6257
110854459	16.2	15.5	57	7042	279	3.868	0.918	0.083	0.104	1	0.0	6552	8070
110854542	17.1	16.2	37	19701	316	2.316	0.100	0.099	0.625	7	0.0	5209	6240
110854564			60	5897	249	3.768	0.594	0.385	0.083	191	0.0	6640	5717
110854644	13.4	12.8	63	9131	3040	3.085	1.067	0.759	0.168	1	-83.0	6638	7668
110854687	13.7	13.1	72	6913	296	3.993	0.813	0.189	0.108	61	0.0	6631	7902
110854693			59	6243	268	3.763	0.884	-0.267	0.087	1	0.0	6583	5732
110854820	14.1	12.9	37	5530	101	3.823	0.182	0.036	0.109	1	-83.0	6729	6939
110854826	13.4	12.8	52	6022	253	4.061	0.858	-0.391	0.165	1	-83.0	6647	5755
110855126	15.8	15.0	37	5682	227	3.645	0.648	0.219	0.126	35	0.0	6569	5614
110855204	14.2	13.6	62	6893	101	4.424	0.275	0.006	0.100	1	-83.0	6564	8249
110855351	13.5	13.0	60	6446	264	3.765	0.952	-0.194	0.102	1	-83.0	6673	6411
110855352	16.8	16.0	44	5230	121	2.695	0.697	-0.226	0.139	5	83.0	5521	5721

Table B.1. continued.

CoID	<i>Bmag</i> [mag]	<i>Vmag</i> [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	<i>v_r</i> [km/s]	Teff CaK [K]	Teff Gband [K]
110855355	15.5	14.3	34	5574	167	3.625	0.602	0.211	0.096	1	-83.0	6730	5663
110855445	15.7	15.0	53	6080	257	3.563	0.984	-0.282	0.091	1	-83.0	6606	6414
110855648	15.4	14.1	43	5034	158	3.121	0.575	-0.244	0.110	3	0.0	6690	6715
110855651	15.7	15.0	56	6571	303	3.977	0.721	0.440	0.072	153	0.0	6625	6231
110855673	14.5	13.9	49	6759	297	3.988	0.759	0.394	0.062	51	-83.0	6638	7402
110855696	16.2	15.4	55	6350	262	3.788	0.995	-0.345	0.108	1	0.0	6610	6590
110855702	14.7	13.9	59	5491	215	4.211	0.650	-0.556	0.175	11	-83.0	6592	6277
110855738	15.0	14.3	50	6360	101	3.982	0.290	-0.032	0.085	1	-83.0	5364	6672
110855764	14.2	13.6	54	6620	276	3.987	0.815	-0.116	0.096	1	-83.0	6585	6043
110855769	16.0	15.3	45	5840	115	3.277	0.467	0.457	0.089	1	0.0	6595	6949
110855813	13.8	13.1	79	7283	289	4.256	0.651	-0.098	0.106	1	-83.0	6746	7634
110855884			49	6317	101	3.922	0.233	-0.023	0.088	91	0.0	6598	6395
110855951	15.1	14.3	42	5572	259	3.902	0.709	-0.303	0.107	5	-166.0	6652	5687
110856038	13.8	13.5	166	13149	2304	4.391	0.485	0.759	0.168	61	-83.0	8043	9846
110856146	NaN	11.8	95	6552	264	3.822	0.928	-0.207	0.110	81	-83.0	5360	7046
110856190			43	5796	272	3.992	0.711	-0.149	0.090	11	0.0	6578	5627
110856225	15.9	15.2	54	6755	100	4.546	0.259	-0.039	0.106	1	-83.0	6691	6932
110856513	13.8	12.7	40	5631	277	3.449	0.778	-0.253	0.105	1	-83.0	6834	7451
110856766	15.7	15.0	53	6340	101	4.114	0.257	0.036	0.078	1	0.0	6564	6502
110856775	12.8	12.3	67	7095	274	3.924	0.872	-0.084	0.148	91	83.0	6698	7975
110856851	15.3	14.6	56	6882	279	4.023	0.843	0.175	0.103	71	0.0	6606	6904
110857070	13.1	12.4	60	6179	293	3.735	0.799	-0.125	0.095	161	-83.0	6663	6214
110857180			54	6412	303	3.888	0.806	0.191	0.100	121	0.0	5337	6110
110857352	15.1	13.8	36	5410	182	3.479	0.665	0.328	0.122	1	-83.0	6733	6092
110857372			229	10440	661	2.510	0.340	0.462	0.092	171	-83.0	8602	13317
110857410	14.3	13.8	69	7075	291	3.902	0.905	-0.086	0.096	1	0.0	6666	8429
110857428	14.5	13.4	44	5388	252	3.704	0.766	-0.455	0.205	11	-166.0	6548	8157
110857616	15.1	14.5	67	7044	101	4.419	0.275	-0.006	0.087	1	0.0	6645	9067
110857620	15.7	14.9	45	6452	272	3.950	0.816	-0.068	0.103	1	-83.0	6671	5793
110857699	14.6	13.9	64	6587	267	3.699	0.935	-0.221	0.123	1	0.0	6595	7280

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110857757	14.5	13.8	45	6228	274	3.897	0.822	-0.061	0.093	1	0.0	6632	5723
110857843	14.4	13.6	34	5761	285	3.942	0.686	0.073	0.134	1	0.0	6646	5648
110857903	16.5	15.7	84	5193	116	2.645	0.326	-0.402	0.221	5	-83.0	6720	5305
110857922	15.0	14.3	57	6765	299	4.080	0.680	0.585	0.155	1	-83.0	5278	6788
110857960	15.1	14.3	50	6205	287	3.921	0.858	-0.090	0.092	23	0.0	6615	5773
110858055	15.1	14.2	52	5885	271	3.749	0.851	-0.200	0.085	1	0.0	6582	5641
110858070	14.0	13.3	52	6465	245	4.136	0.725	0.274	0.105	71	-83.0	6657	5711
110858076	13.9	13.2	56	6892	100	4.363	0.246	0.028	0.094	1	0.0	5374	6571
110858262			41	5399	208	3.546	0.705	-0.197	0.091	1	-83.0	5326	6613
110858300	13.1	12.7	74	8534	422	4.438	0.502	0.451	0.077	61	-83.0	7112	9084
110858375	15.2	14.5	54	5911	265	3.912	0.884	-0.391	0.165	1	-83.0	6604	5736
110858412			59	6764	279	3.927	0.807	0.023	0.091	45	0.0	6566	7405
110858419			209	15040	2676	3.835	0.657	0.759	0.168	1	0.0	7889	10226
110858597			31	5440	176	3.825	0.425	0.228	0.124	1	0.0	6599	5312
110858607	13.7	12.4	36	5406	197	3.206	0.659	0.098	0.145	1	0.0	6567	6878
110858609			30	5347	165	3.167	0.633	0.271	0.138	1	-249.0	6803	6220
110858827			36	5998	284	4.017	0.631	0.314	0.126	79	-166.0	5216	5624
110858910			82	8190	279	3.759	0.724	0.507	0.111	1	-83.0	6745	8686
110859017			71	6713	100	4.494	0.234	-0.020	0.099	121	0.0	5280	7291
110859229	14.1	13.3	42	5885	251	4.392	0.526	-0.059	0.131	1	0.0	6678	5203
110859251			40	5433	251	3.510	0.691	-0.126	0.149	11	0.0	6687	5784
110859573			26	11705	4428	3.370	1.092	0.925	0.337	1	-166.0	6901	5232
110859675			65	6655	253	3.851	0.969	-0.367	0.150	1	-83.0	5364	6817
110859777			42	5959	276	4.007	0.741	0.287	0.123	31	-83.0	6768	5377
110859780	14.8	13.9	38	5592	246	4.263	0.498	0.138	0.142	11	0.0	6550	5203
110859890			76	7007	304	3.974	0.801	0.173	0.107	51	0.0	6672	8386
110859910		14.3	61	6979	289	3.989	0.794	0.275	0.069	131	-83.0	6623	7554
110859959	15.0		33	5499	252	4.350	0.558	-0.150	0.131	1	0.0	5291	5398
110860228			67	6529	274	3.876	0.997	-0.228	0.104	45	83.0	6641	6903
110860298			83	7365	311	4.285	0.641	0.210	0.105	1	-83.0	6654	8816

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110860349			41	5526	188	3.667	0.659	-0.105	0.111	3	-83.0	6687	6488
110860509			43	5910	104	4.467	0.147	0.172	0.123	51	0.0	6563	5642
110860515			33	5101	205	3.378	0.632	-0.062	0.091	1	-83.0	6805	5480
110860612			38	5535	148	3.006	0.568	0.536	0.126	1	0.0	6658	5354
110860626			82	5719	170	3.530	0.526	-0.365	0.065	11	-83.0	6603	5353
110860676			63	7065	331	4.128	0.680	0.377	0.086	111	-83.0	6764	8977
110860838			40	5667	240	4.328	0.499	0.049	0.128	11	0.0	6646	6018
110860928			32	5137	101	3.102	0.216	-0.009	0.119	1	0.0	5320	5503
110860936			77	7985	354	4.146	0.688	0.342	0.085	81	0.0	6864	8644
110860964	12.6	12.3	95	10585	544	4.315	0.291	0.435	0.098	91	0.0	8013	9632
110861243			40	5347	119	3.106	0.557	0.170	0.114	11	0.0	6595	5630
110861257			74	6960	267	3.932	0.918	-0.023	0.106	43	0.0	6630	7921
110861370			53	6872	267	3.791	0.903	-0.071	0.097	1	-83.0	6682	7921
110861495			46	6675	303	3.943	0.775	0.481	0.095	121	-83.0	6737	6719
110861516	14.1	13.5	68	7442	300	4.368	0.566	-0.043	0.098	25	-83.0	6811	8500
110861548			42	5178	135	3.171	0.579	0.090	0.113	9	-83.0	6737	7096
110861562	15.2	14.4	40	5792	257	4.293	0.601	-0.097	0.133	1	-83.0	6623	5614
110861582	15.7	15.0	58	6621	260	3.760	0.891	-0.225	0.093	51	-83.0	6619	7224
110861615	13.5	12.8	49	6086	301	3.910	0.780	0.069	0.079	1	-83.0	5345	5723
110861642			53	6999	272	3.999	0.816	0.134	0.101	1	-83.0	6722	9002
110861681			49	6352	303	4.013	0.748	0.446	0.078	157	-83.0	6569	6376
110861731			63	9816	3974	3.385	1.037	0.759	0.168	1	0.0	6594	8091
110861793			56	6136	260	4.199	0.628	0.191	0.092	171	-83.0	6571	5608
110861907	16.9	16.1	49	6245	273	3.946	0.876	-0.223	0.104	1	-83.0	6723	6126
110861953			87	8371	439	4.400	0.507	0.197	0.103	71	0.0	6995	9116
110862013			39	5145	139	3.381	0.559	-0.316	0.087	5	-83.0	6673	7457
110862102			85	7912	354	3.950	0.800	-0.145	0.094	1	-83.0	6782	8537
110862229			69	7751	336	4.183	0.745	0.193	0.087	141	0.0	6889	8688
110862334			56	9956	4127	3.403	1.041	0.759	0.168	1	0.0	6755	7291
110862354			62	6805	265	3.890	0.892	-0.067	0.101	1	-83.0	6595	7569

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110862404	12.9	12.4	63	6541	310	3.907	0.770	0.376	0.084	181	0.0	6580	7279
110862429			65	7293	263	4.129	0.726	0.217	0.080	1	-83.0	6621	8069
110862490			71	7717	325	4.151	0.773	0.210	0.098	1	0.0	6890	8813
110862535	13.4	12.7	49	5690	239	4.050	0.718	-0.264	0.091	1	83.0	6605	5634
110862566			52	6044	257	3.941	0.896	-0.370	0.130	1	-83.0	6610	5737
110862615			132	7887	373	4.251	0.665	0.062	0.116	191	-83.0	7111	9392
110862831	15.6	14.8	47	6362	266	4.084	0.734	0.312	0.131	1	-83.0	6655	5797
110862858	16.7	15.8	31	5758	253	4.261	0.568	0.101	0.111	1	83.0	6573	5977
110862897			36	5847	271	3.710	0.637	0.092	0.107	13	0.0	6614	5646
110863017			46	6025	290	4.310	0.541	0.211	0.115	101	-83.0	5295	5264
110863142			47	5752	274	4.182	0.789	-0.438	0.194	1	-83.0	6725	5377
110863193			51	6139	306	3.884	0.679	0.467	0.091	111	-166.0	5324	5984
110863348			42	5397	200	3.333	0.711	-0.275	0.113	5	-83.0	6579	7009
110863358			96	7295	304	3.882	0.930	-0.303	0.120	1	-83.0	6816	9072
110863378			29	5507	119	3.507	0.513	0.395	0.092	1	-83.0	6677	7310
110863473			27	5032	152	3.334	0.485	0.142	0.109	3	-83.0	5277	6406
110863651			33	12737	4233	3.258	1.085	0.527	0.455	1	-913.1	6738	5430
110863724			95	6931	284	3.781	0.871	0.100	0.082	131	-83.0	6651	7976
110863940			52	6290	291	4.210	0.703	-0.120	0.111	1	0.0	6660	5715
110863978			81	7122	289	3.966	0.913	-0.220	0.131	1	-83.0	6656	7615
110864007			31	5488	158	3.036	0.603	0.459	0.085	1	0.0	6636	5292
110864097			40	5871	254	3.888	0.670	0.093	0.110	1	-83.0	5329	5697
110864121			66	6518	268	3.600	0.977	-0.264	0.096	1	-83.0	6651	8979
110864176			53	6139	162	4.602	0.236	0.048	0.094	43	0.0	6744	5445
110864198			48	5549	313	2.942	0.683	0.389	0.091	1	-166.0	6550	6699
110864228	13.4	12.8	72	6383	265	3.619	0.942	-0.385	0.166	31	0.0	6616	6887
110864279			63	6388	277	3.891	0.891	-0.173	0.113	1	-83.0	6648	6205
110864307			58	6364	101	4.743	0.096	-0.011	0.108	1	0.0	6609	5769
110864387			135	8143	399	4.116	0.691	-0.293	0.107	21	-83.0	7437	9264
110864413			45	6324	314	4.032	0.713	0.373	0.099	1	0.0	6717	5732

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110864471			51	6256	289	4.220	0.685	0.219	0.107	61	0.0	6556	5709
110864474			63	7398	297	4.216	0.690	0.337	0.093	21	0.0	6688	7857
110864593			38	5463	207	4.381	0.462	-0.255	0.100	1	0.0	6648	6117
110864598			47	9568	3866	3.238	1.088	0.759	0.168	1	0.0	6617	8204
110864643			107	7985	370	4.303	0.619	0.375	0.083	121	0.0	6898	9153
110864733			32	6214	263	4.018	0.648	0.451	0.084	1	0.0	6709	5760
110864801			38	6110	285	4.070	0.655	0.302	0.140	9	-83.0	6641	5663
110864818			33	5958	288	4.054	0.650	0.326	0.111	31	0.0	6726	5684
110864848			63	7002	301	4.092	0.703	0.366	0.104	91	0.0	6610	7461
110864999			44	5742	183	3.580	0.623	0.457	0.089	7	0.0	5230	5314
110865014			31	6041	92	2.443	0.144	0.621	0.155	1	-83.0	5208	6478
110865129			28	5297	100	2.484	0.301	0.406	0.084	1	0.0	6760	6395
110865133			34	6300	318	3.862	0.673	0.387	0.105	1	0.0	6647	6982
110865139			57	6236	255	3.516	0.968	-0.465	0.199	1	0.0	5343	6797
110865172			54	6237	100	4.221	0.200	0.025	0.101	91	0.0	6594	5784
110865224			47	6708	282	3.909	0.806	0.103	0.107	1	0.0	6650	7125
110865352			56	6702	279	3.792	0.976	-0.106	0.135	1	-83.0	5365	8420
110865520			70	7147	295	4.263	0.652	0.111	0.083	1	-83.0	6745	7365
110865541			47	6971	289	4.018	0.810	0.218	0.114	1	-83.0	6656	7884
110865641			51	6112	279	3.976	0.816	0.109	0.106	87	-83.0	5357	5716
110865720			34	5561	251	4.159	0.559	0.099	0.115	1	-83.0	6550	5308
110865725			72	8288	2597	3.732	0.947	0.759	0.168	1	0.0	6938	8482
110865749			73	6485	266	3.826	0.797	-0.108	0.105	1	0.0	6612	7501
110865857	16.7	15.9	38	6374	294	3.957	0.795	0.205	0.128	1	0.0	5346	6689
110865954			50	5318	271	3.354	0.792	-0.539	0.251	11	-166.0	6592	5973
110865958			26	5214	121	3.052	0.468	0.457	0.090	1	0.0	5230	5306
110865962			34	5839	273	4.076	0.620	0.135	0.117	1	0.0	5217	5278
110865964			57	6977	283	3.861	0.871	0.235	0.096	1	-83.0	6576	7944
110865992			62	6559	272	3.833	0.778	-0.144	0.133	11	0.0	6645	7494
110866060	14.5	13.9	78	6729	278	3.597	0.999	-0.295	0.092	1	-83.0	6687	8494

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
110866082			70	6415	258	3.770	0.968	-0.451	0.196	71	-83.0	6591	6528
110866146			45	5355	157	3.538	0.522	-0.087	0.108	1	0.0	6667	6452
110866184			60	6272	295	3.723	0.800	0.116	0.100	151	-83.0	6617	6460
102651614	15.5	14.4	29	5007	94	2.809	0.274	-0.204	0.117	5	-83.0	6686	7613
102693596	15.4	14.1	37	5033	80	2.639	0.422	-0.020	0.092	1	-83.0	5442	5422
102713140			35	5033	74	4.370	0.723	-0.394	0.172	5	-83.0	6637	5910
102615045	15.0	13.9	32	5062	141	4.133	0.434	-0.086	0.108	11	-83.0	6733	8524
102690411	15.8	14.5	41	5110	161	2.986	0.613	-0.322	0.096	1	-166.0	5229	5622
102669697	15.7	14.4	30	5085	111	3.117	0.416	0.177	0.147	1	-83.0	6722	7272
102634415	15.8	14.3	31	5133	205	3.316	0.560	0.098	0.116	11	0.0	6865	8478
102552712			41	5164	204	4.273	0.472	-0.104	0.140	3	-83.0	5240	5784
102767085	15.3	14.1	37	5106	248	3.172	0.722	-0.398	0.184	1	-83.0	5220	6324
102709538	15.8	14.4	33	5182	100	2.112	0.194	0.191	0.129	1	-83.0	6564	6607
102577934	15.2	14.0	39	5333	118	3.290	0.428	0.333	0.113	7	-83.0	6612	8244
102797491			33	5209	147	4.042	0.471	-0.200	0.112	1	0.0	6647	6503
102556771			52	5380	162	3.426	0.664	-0.085	0.113	11	0.0	6819	5369
102663468			34	5203	100	2.653	0.484	0.034	0.098	1	0.0	6629	7520
102695675	15.2	14.2	34	5161	100	3.907	0.155	0.003	0.135	11	0.0	6822	6409
102722336	15.6	14.3	29	5392	118	3.033	0.499	0.166	0.110	3	0.0	6695	6549
102554257			31	5282	153	3.554	0.510	0.178	0.110	1	0.0	6821	5335
102601753	15.7	14.3	36	5267	118	3.041	0.505	0.350	0.126	11	0.0	5462	5353
102570825	15.8	14.4	45	5357	172	3.642	0.519	-0.078	0.126	9	-83.0	5281	5888
102601871	15.5	14.2	39	5297	164	3.128	0.591	0.002	0.152	7	-83.0	5341	5714
102679096	15.6	14.3	37	5314	117	3.021	0.508	-0.091	0.120	1	-83.0	5360	5722
102659989	14.1	13.2	37	5293	188	4.376	0.435	-0.295	0.094	1	0.0	5360	6210
102603923	15.8	14.4	34	5366	116	3.336	0.549	0.369	0.103	1	-83.0	6737	6757
102552983			44	5251	159	2.907	0.885	-0.547	0.349	5	-83.0	5562	5262
102810197			46	5353	247	4.147	0.756	0.295	0.172	5	0.0	5239	5612
102597611	15.4	14.1	40	5281	219	3.296	0.731	0.157	0.127	5	0.0	5292	5243
102546893			36	5330	146	3.228	0.678	0.390	0.087	1	-83.0	5661	5389

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102590282	15.8	14.4	35	5240	120	3.946	0.189	0.038	0.112	1	0.0	6007	5304
102566576			33	5403	118	2.723	0.484	0.391	0.102	1	-83.0	5367	6186
102737077			37	5424	185	2.979	0.693	-0.074	0.139	1	332.0	6598	6378
102601325	15.3	14.0	32	5567	171	3.355	0.665	0.308	0.137	1	-166.0	5256	5853
102833273			36	5507	98	3.444	0.215	0.016	0.104	11	0.0	6661	7519
102612701	14.2	13.0	36	5483	265	3.156	0.683	-0.099	0.121	1	-83.0	6627	6198
102677674	15.1	14.1	46	5540	178	3.511	0.660	-0.279	0.086	9	0.0	5330	5353
102688552	15.6	14.3	30	5342	224	3.248	0.636	0.310	0.131	1	-83.0	6565	7074
102775212	15.0	14.1	39	5413	258	4.501	0.499	-0.352	0.134	1	-83.0	5355	6621
102569489			39	5446	280	3.285	0.685	-0.164	0.120	1	0.0	5312	6124
102792223	15.5	14.3	37	5463	171	3.750	0.348	0.013	0.117	3	-83.0	5315	5338
102590124			35	5434	167	3.622	0.458	0.154	0.120	1	-83.0	6764	6019
102585351	14.5	13.7	31	5655	216	4.302	0.464	0.419	0.084	1	0.0	6575	8063
102798685			37	5633	241	4.186	0.614	-0.282	0.094	1	83.0	6673	5207
102548304			37	5399	100	3.938	0.179	0.001	0.098	1	0.0	6688	5788
102679508			36	5414	222	4.323	0.495	-0.374	0.139	11	-83.0	6603	6505
102797766			38	5445	181	4.012	0.486	-0.028	0.093	9	-83.0	6662	5777
102571258	15.3	14.0	32	5387	166	3.059	0.632	0.448	0.088	11	0.0	5253	6971
102558344			29	5669	232	4.492	0.423	0.385	0.106	11	-83.0	5287	5236
102709980	15.0	14.1	31	5697	98	4.411	0.141	-0.032	0.122	11	0.0	6794	6760
102621131	15.5	14.3	41	5447	172	3.383	0.635	0.083	0.086	11	-83.0	6694	5739
102647509	15.7	14.4	33	5464	171	3.226	0.656	0.177	0.106	1	-83.0	6621	8334
102798609			27	5646	219	3.129	0.670	0.270	0.120	1	0.0	6755	5243
102625133	15.4	14.2	43	5521	177	3.978	0.587	0.138	0.118	11	83.0	5280	5889
102794939			40	5661	248	4.302	0.464	0.090	0.131	1	0.0	6704	8524
102609868	15.0	13.8	35	5469	235	3.545	0.674	0.092	0.137	1	-83.0	5240	6103
102825486			44	5410	166	3.501	0.257	-0.299	0.101	5	0.0	6850	5814
102802781			50	5575	199	3.578	0.570	-0.119	0.085	11	-83.0	6661	5316
102597390	15.0	14.0	36	5476	131	3.641	0.657	0.116	0.154	1	0.0	5313	7231
102616079	15.3	14.5	28	5557	239	3.954	0.546	0.352	0.106	1	0.0	6673	5327

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102809274			42	5658	273	3.357	0.775	-0.193	0.096	1	-166.0	6657	5274
102636728	15.5	14.2	34	5613	101	3.225	0.209	0.041	0.114	1	-83.0	5342	7878
102614215	16.1	14.2	35	5674	186	3.849	0.396	0.391	0.093	9	-83.0	6786	5643
102585936	15.6	14.3	79	5643	120	3.232	0.408	-0.383	0.147	75	-332.0	5298	5359
102658557	15.3	14.1	41	5798	289	3.630	0.748	-0.108	0.112	1	-83.0	6661	5359
102549327			33	5681	301	3.392	0.700	-0.015	0.111	1	-83.0	5207	5268
102822379			46	8390	463	4.359	0.531	0.192	0.167	1	0.0	7472	9483
102826275			34	5734	180	4.326	0.488	0.499	0.111	1	0.0	5278	5316
102603593	14.7	14.0	33	5673	227	4.435	0.542	-0.516	0.211	11	-83.0	6689	5492
102738408			34	5663	239	4.354	0.518	-0.053	0.112	1	-83.0	6723	5202
102582548	14.8	14.1	42	5733	183	4.192	0.522	0.191	0.134	11	0.0	6649	5239
102825231			41	5803	100	3.883	0.154	0.070	0.112	9	0.0	6824	5701
102613288			47	5868	280	4.184	0.644	-0.223	0.112	23	-83.0	6595	5787
102594873	15.0	14.3	38	5844	233	4.361	0.610	-0.097	0.111	1	-83.0	6604	5284
102551422			34	5827	244	3.233	0.652	0.417	0.084	11	-83.0	6626	5756
102593020	15.0	13.8	34	5766	253	3.436	0.845	0.160	0.106	5	0.0	6656	7315
102551634			31	5697	202	3.184	0.653	0.419	0.082	1	-83.0	5322	5340
102670616	15.2	14.4	41	5734	267	4.269	0.631	-0.097	0.136	1	-83.0	6621	5642
102629712	14.8	14.0	35	5747	249	4.278	0.583	-0.196	0.103	1	-83.0	6589	5303
102801978			35	5750	291	3.650	0.697	0.369	0.109	11	0.0	6794	5733
102647794	15.3	14.3	32	5735	244	3.600	0.701	0.345	0.104	61	-498.1	6561	9506
102582804	14.7	14.0	35	5764	272	4.113	0.591	0.324	0.137	1	0.0	6604	5306
102579658	15.5	14.1	41	5737	106	3.634	0.200	-0.018	0.108	1	-166.0	5207	5829
102760270	14.9	14.1	35	5847	99	4.671	0.159	0.097	0.146	3	0.0	6683	5297
102602822	14.9	14.1	56	5785	242	3.865	0.836	-0.445	0.189	1	0.0	6579	5241
102742596	15.0	14.2	31	5842	235	4.277	0.528	0.350	0.120	1	0.0	5334	5247
102606706	14.7	14.0	34	5804	272	4.207	0.661	-0.094	0.116	1	0.0	5303	5353
102585029	15.0	14.2	36	5787	287	3.691	0.642	-0.055	0.113	57	83.0	5340	5603
102573290	15.0	14.2	38	5867	257	3.775	0.586	0.481	0.101	11	-83.0	5219	5646
102805792			54	5798	258	3.399	0.693	-0.171	0.116	9	0.0	5332	6091

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102841584			43	5866	111	4.373	0.185	-0.023	0.138	11	0.0	6725	5332
102797674			38	5689	293	4.165	0.593	0.179	0.135	1	-83.0	6613	5326
102586600			33	5924	246	3.981	0.594	0.338	0.135	11	-83.0	6655	5614
102555495			44	5922	295	3.973	0.697	-0.008	0.085	43	0.0	6602	5634
102760925			41	5788	168	4.619	0.254	0.446	0.083	53	0.0	6575	5291
102578476	15.0	14.3	37	5921	242	4.039	0.597	0.382	0.092	1	0.0	6734	5343
102789132			48	8418	452	4.209	0.541	0.291	0.169	131	0.0	7469	7173
102552040			35	5987	283	4.235	0.559	0.373	0.085	81	-83.0	6754	5342
102673167		13.6	39	6017	100	4.609	0.181	0.014	0.134	1	0.0	6622	5300
102557918			37	5801	213	3.616	0.649	0.425	0.075	101	-83.0	6731	5230
102767172			42	5878	181	3.551	0.546	0.464	0.093	161	83.0	6615	6730
102544096			41	6058	223	4.074	0.534	0.226	0.086	1	-83.0	6734	5691
102830966			53	6007	102	4.115	0.206	0.021	0.101	111	0.0	5315	5650
102699360			47	5993	258	4.322	0.730	-0.349	0.119	1	-83.0	6548	5652
102786762	14.8	14.1	37	5893	246	4.455	0.488	0.364	0.111	151	0.0	6757	5271
102638956	14.2	13.5	45	6009	275	4.127	0.724	-0.112	0.120	41	-83.0	6668	5722
102595059	14.2	13.5	38	6116	303	4.042	0.618	0.360	0.114	1	0.0	6808	5619
102565733			34	5899	294	4.090	0.590	0.297	0.102	1	0.0	6587	5492
102762195	14.6	14.1	46	5850	176	3.519	0.638	-0.116	0.112	81	-83.0	6552	6530
102827664			54	5955	312	3.867	0.765	-0.255	0.095	5	83.0	6553	5604
102629764			59	6051	211	4.164	0.559	-0.076	0.095	105	-83.0	6641	5688
102612430	14.8	14.2	37	5911	279	4.021	0.755	-0.097	0.110	1	0.0	5366	5723
102778785	15.2	14.0	38	6073	311	3.834	0.704	0.001	0.109	35	-83.0	6746	5713
102614708	14.9	14.2	55	6047	297	4.045	0.853	-0.235	0.102	1	0.0	6648	5767
102627206	14.6	13.9	53	5972	337	3.747	0.660	-0.104	0.085	95	83.0	5297	5679
102662299	15.1	13.8	47	5971	282	3.879	0.701	0.368	0.089	1	0.0	6573	6603
102829324			43	5966	225	3.713	0.570	0.113	0.115	71	0.0	5311	5681
102553422			50	6238	280	3.924	0.816	-0.107	0.088	1	0.0	6782	5767
102553001			52	6174	262	4.053	0.878	-0.220	0.090	1	83.0	6610	5703
102545989			49	8353	133	4.538	0.240	0.006	0.213	1	0.0	7498	8867

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102714414	14.8	14.2	57	6127	269	3.903	0.870	-0.291	0.107	1	0.0	5211	5685
102825383			52	6167	260	4.107	0.677	0.073	0.111	91	0.0	5336	5660
102774905	14.4	13.7	77	6018	249	3.396	0.891	-0.198	0.103	93	0.0	6577	6052
102806178			33	6113	311	3.614	0.769	0.284	0.140	1	0.0	6662	6062
102594569			52	6082	259	4.096	0.884	-0.367	0.108	1	-83.0	6599	5783
102659174	14.8	14.1	41	6196	305	3.700	0.761	0.233	0.105	1	0.0	5222	5740
102744741			41	6000	297	4.139	0.720	0.063	0.089	1	-83.0	5210	5678
102611929	14.3	13.7	61	6220	280	3.774	0.937	-0.368	0.151	1	-83.0	5310	6452
102564046			39	6118	293	3.891	0.705	0.316	0.090	111	0.0	6678	5748
102758285			53	6049	206	3.670	0.325	-0.220	0.105	71	0.0	6695	5705
102582719			70	6107	100	3.870	0.214	-0.025	0.122	61	0.0	6621	6387
102598179	14.9	14.3	39	6143	272	3.873	0.819	-0.075	0.127	1	0.0	5285	5715
102584722	15.2	14.3	45	6096	295	4.055	0.698	0.276	0.109	165	-83.0	6556	5674
102611496	14.9	14.2	56	6139	245	3.916	0.935	-0.493	0.207	51	-83.0	6602	5709
102660645	15.1	14.3	44	6126	270	4.011	0.616	0.398	0.085	181	0.0	6613	5724
102785952	15.2	14.5	46	8322	463	4.332	0.543	0.274	0.219	1	0.0	7807	8778
102640467	14.6	14.0	64	6277	260	3.829	0.943	-0.475	0.203	101	-166.0	6664	5747
102549040			68	6253	273	3.695	0.908	-0.390	0.149	1	0.0	6638	5792
102832055			45	8422	460	4.169	0.561	0.063	0.180	61	0.0	7457	9020
102717012	14.8	14.2	43	6274	287	3.973	0.698	0.106	0.094	81	0.0	5371	5669
102721751			46	6236	291	3.803	0.814	0.100	0.108	61	0.0	6597	6178
102562324			50	6140	266	3.842	0.795	-0.249	0.094	1	-83.0	6627	5770
102832816			44	6192	266	3.909	0.908	0.002	0.128	63	83.0	6632	5770
102637895	15.3	14.5	44	6382	330	3.965	0.730	0.367	0.096	97	-83.0	6596	6120
102819093			41	6139	104	4.626	0.177	0.029	0.098	1	-83.0	6656	5666
102828614			43	6134	286	4.029	0.715	0.124	0.084	91	-83.0	5373	5706
102557105			78	6280	256	3.590	0.941	-0.505	0.209	141	-166.0	6549	6190
102581259	14.6	14.0	36	6193	101	4.273	0.213	-0.051	0.125	1	0.0	5204	5707
102548295			57	6208	257	4.000	0.860	-0.478	0.211	101	-83.0	6651	5717
102808391			48	6237	281	3.833	0.844	-0.177	0.094	13	-83.0	6604	6037

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v _{ini} [km/s]	v _r [km/s]	Teff CaK [K]	Teff Gband [K]
102628908	15.0	13.8	45	6099	101	4.177	0.192	0.009	0.084	1	-166.0	5228	6978
102795244			49	6128	290	4.116	0.813	-0.170	0.108	1	83.0	6618	5623
102789073			33	6070	295	3.833	0.794	0.099	0.133	1	0.0	5337	5728
102792130			61	6432	276	4.013	0.787	-0.096	0.096	1	0.0	6552	6373
102659682			51	6086	249	3.971	0.749	0.244	0.118	1	-83.0	6770	5395
102569059	14.8	14.2	54	6197	256	3.780	0.930	-0.469	0.208	111	-166.0	6614	6058
102840579			56	6345	103	4.113	0.258	0.079	0.096	53	0.0	6740	5765
102637311			47	6425	100	4.627	0.183	0.158	0.077	17	-83.0	6796	5761
102840851			30	6365	314	4.060	0.738	0.414	0.093	1	83.0	6584	5228
102619127			38	6369	315	3.802	0.733	0.360	0.108	1	-83.0	5373	5776
102676637			41	6224	262	4.158	0.600	0.082	0.087	111	83.0	6561	5699
102721136			55	6380	101	4.363	0.201	0.023	0.102	1	0.0	6619	6230
102543288			44	6389	310	3.788	0.740	0.373	0.090	131	-83.0	6633	6215
102575972	14.9	14.3	56	6369	257	3.660	0.961	-0.303	0.100	1	0.0	6589	6702
102637810	14.9	14.2	56	6414	262	3.897	0.906	-0.169	0.084	1	-83.0	6691	6053
102814222			50	6417	297	3.823	0.849	0.041	0.076	33	-83.0	6596	6528
102614466	14.2	13.6	62	6301	249	3.634	0.955	-0.391	0.172	61	-83.0	5369	6775
102588673	14.9	14.2	53	6376	259	3.725	0.918	-0.311	0.086	1	0.0	6683	6505
102828171			40	6317	284	4.345	0.550	0.482	0.099	91	0.0	6763	5267
102735825	14.9	14.3	52	6300	295	3.809	0.806	-0.079	0.089	61	0.0	5224	6319
102647087	14.8	14.1	53	6355	258	3.722	0.944	-0.229	0.093	21	0.0	6649	6160
102804322			47	6280	317	4.194	0.731	0.191	0.089	111	-83.0	6618	5713
102725010	13.4	12.9	58	6455	291	3.959	0.776	-0.113	0.080	91	0.0	6658	6249
102567752			47	6259	265	3.982	0.948	-0.174	0.094	1	83.0	6681	5796
102589620			47	6316	307	3.964	0.912	0.322	0.119	117	-332.0	6615	7070
102595854	14.8	14.2	48	6498	339	4.113	0.623	0.481	0.101	1	0.0	6678	6422
102557822			66	6415	261	3.642	0.965	-0.417	0.183	1	0.0	6552	6740
102770493	14.9	14.3	78	6376	100	4.024	0.176	0.026	0.091	191	0.0	6613	6571
102571296	14.5	13.9	55	6527	312	4.080	0.722	0.283	0.072	181	0.0	5316	6309
102727093	14.8	14.0	54	6393	279	3.929	0.764	0.100	0.081	71	0.0	6575	5792

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102821901			80	6358	258	3.692	0.956	-0.483	0.214	161	0.0	6617	7052
102808082			56	6394	102	4.706	0.174	0.005	0.109	111	-83.0	6638	5734
102576551			47	6552	284	3.897	0.806	0.206	0.121	1	0.0	6659	7043
102742769	15.1	14.4	58	6494	264	3.752	0.985	-0.291	0.105	1	-83.0	6580	7583
102645479	14.6	13.9	88	6438	276	3.727	0.956	-0.474	0.202	51	0.0	6585	6631
102769846	14.6	13.9	58	6528	248	4.169	0.257	0.488	0.103	151	0.0	5355	6071
102648708			59	6510	271	3.906	0.954	-0.332	0.123	1	-83.0	6601	7398
102754821	14.7	14.1	66	6575	310	4.014	0.637	0.257	0.084	121	-83.0	6674	6744
102550924			36	6535	290	4.197	0.589	0.259	0.132	1	0.0	6804	5786
102583803	14.9	14.2	47	6424	267	3.953	0.761	-0.090	0.109	1	0.0	6699	6900
102569752			57	6549	270	3.928	0.761	-0.132	0.086	41	0.0	6685	7016
102812621			59	6559	310	3.873	0.789	0.186	0.078	173	0.0	6622	6530
102825202			41	6668	311	4.150	0.687	0.430	0.084	61	0.0	6654	5729
102773588	15.3	14.1	46	6526	317	4.347	0.653	0.422	0.069	33	-166.0	6579	9063
102759271	14.7	14.0	49	6514	302	3.981	0.784	0.313	0.071	131	-83.0	6685	5779
102680371	14.6	14.0	57	6528	270	3.998	0.758	-0.111	0.091	1	0.0	5361	7204
102556121			74	6657	101	4.460	0.224	-0.008	0.083	161	-83.0	6672	6211
102797258			66	6620	99	4.394	0.252	-0.013	0.109	141	0.0	6624	6624
102785253			60	6524	257	3.722	0.974	-0.394	0.177	1	-83.0	6656	7268
102786677			68	6683	263	3.567	0.963	-0.266	0.105	1	-83.0	6567	7381
102810382			88	6596	287	4.011	0.882	-0.303	0.096	111	0.0	6617	7122
102776506	14.3	13.8	46	6466	251	3.905	0.890	-0.209	0.120	1	0.0	6645	6843
102549668			45	6478	333	3.949	0.770	0.422	0.072	41	-83.0	6589	6156
102781600	14.2	13.6	67	6569	276	4.028	0.795	-0.107	0.105	1	0.0	6565	6594
102699714	14.7	14.1	59	6517	275	3.680	0.918	-0.178	0.116	1	0.0	6636	6816
102834010			53	6572	305	4.229	0.690	0.213	0.089	169	0.0	6746	5637
102769166			59	6591	301	3.866	0.792	0.181	0.074	151	0.0	6643	7003
102557924			36	6458	301	4.092	0.788	0.326	0.094	61	-83.0	5326	6277
102578989			53	6517	269	3.974	0.779	-0.102	0.098	1	0.0	5267	6791
102547183			63	6495	276	4.015	0.866	-0.130	0.113	17	0.0	6688	6410

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102793141			51	6557	321	4.204	0.712	0.498	0.103	171	0.0	6568	6535
102663106			49	6628	301	4.007	0.746	0.296	0.076	151	0.0	6724	6420
102680423	14.9	14.2	43	6602	297	4.115	0.736	0.378	0.082	1	0.0	6638	6346
102624357	15.1	14.4	40	6563	311	3.978	0.734	0.461	0.082	101	0.0	5213	6420
102744857	14.9	14.2	57	6569	272	3.877	0.768	-0.088	0.094	1	0.0	6602	7326
102624646	13.3	12.8	65	6594	100	4.237	0.226	0.007	0.095	81	0.0	6573	6988
102771432	12.6	12.1	63	6494	288	3.968	0.822	-0.058	0.071	11	-83.0	6621	7543
102546925			49	6759	283	3.971	0.793	0.089	0.109	1	0.0	6742	7171
102813634			64	6646	292	4.076	0.876	-0.197	0.119	1	83.0	5371	6107
102809550			54	6712	286	3.899	0.788	0.341	0.111	1	0.0	5287	7119
102823249			69	6681	100	4.592	0.182	0.022	0.079	141	0.0	6680	6504
102779646	14.6	13.9	65	6720	100	4.272	0.258	-0.126	0.118	29	-83.0	6618	7478
102576019	15.0	14.2	53	6699	303	4.180	0.680	0.379	0.078	1	-83.0	6673	7266
102666132	14.7	14.0	60	6700	109	4.598	0.211	0.069	0.075	61	0.0	6676	6666
102826810			65	6825	287	3.899	0.872	-0.102	0.109	1	-83.0	6702	7288
102818207			68	6738	302	3.939	0.757	0.071	0.116	111	0.0	5321	7070
102657546	15.2	14.5	41	6750	289	3.925	0.761	0.113	0.118	53	-166.0	6585	7441
102795315			56	6688	305	4.058	0.772	0.294	0.082	111	0.0	5345	6677
102812083			63	6822	291	3.837	0.876	0.101	0.076	1	0.0	6602	7654
102777151	14.9	14.2	42	6828	321	4.186	0.675	0.369	0.108	129	-83.0	6646	6308
102697420	15.0	14.2	55	6676	301	3.937	0.771	0.193	0.073	41	0.0	6667	6594
102575393	13.8	13.2	68	6670	298	4.141	0.706	0.194	0.077	161	0.0	6701	6386
102660863	14.9	14.2	56	6805	102	4.385	0.244	0.038	0.093	1	-83.0	5287	7316
102638985	14.3	13.7	62	6848	269	3.866	0.867	-0.089	0.096	1	-83.0	6627	7833
102795785			46	6845	301	3.991	0.761	0.338	0.114	1	-83.0	6650	7347
102566717			39	6797	318	3.970	0.684	0.451	0.087	1	-83.0	6724	6545
102559984			44	6784	100	4.185	0.273	0.014	0.139	1	-83.0	6667	8332
102800557			50	8448	133	4.594	0.283	0.024	0.177	1	0.0	7365	9474
102759591	14.4	13.7	58	6862	100	4.336	0.231	-0.007	0.095	1	0.0	6562	7206
102542110			75	6852	281	3.850	0.868	-0.366	0.151	1	-83.0	6615	8436

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102715003	14.8	14.2	42	6759	274	3.915	0.809	0.191	0.134	1	-83.0	6713	8568
102680422	14.7	14.2	50	6715	100	4.251	0.232	-0.015	0.106	1	0.0	6683	7993
102697770			59	6821	281	4.011	0.827	-0.084	0.117	1	83.0	5283	7074
102763562			62	6783	275	3.779	0.858	-0.156	0.093	19	-83.0	6631	7825
102765170	14.7	14.1	55	6902	97	4.371	0.242	-0.069	0.113	1	83.0	6716	7639
102608170	15.2	14.5	43	6839	286	3.953	0.809	0.149	0.116	1	0.0	6701	7700
102764084	15.1	14.3	38	7012	308	4.076	0.734	0.481	0.102	1	-83.0	6577	7437
102645624	15.2	14.4	65	6817	101	4.388	0.250	-0.002	0.074	31	0.0	6645	7081
102763472	14.4	13.8	61	7029	292	3.947	0.928	-0.071	0.108	1	-83.0	6735	7948
102753047	14.7	14.1	52	6740	100	4.106	0.256	0.028	0.095	1	0.0	6656	7833
102573608	15.2	14.5	41	6909	298	4.056	0.721	0.378	0.096	1	0.0	6617	6662
102792577			59	6940	290	3.944	0.797	0.184	0.091	81	0.0	6612	7993
102611976	15.2	14.4	45	9387	514	4.152	0.518	0.792	0.168	33	0.0	7393	9024
102714253	14.7	14.1	55	6892	292	4.147	0.731	0.083	0.095	1	0.0	6805	7278
102791229			60	6894	101	4.695	0.250	0.020	0.091	1	-83.0	6660	7696
102626095	15.0	14.3	48	8343	458	4.110	0.621	-0.076	0.165	1	0.0	7476	8524
102578282	15.0	14.3	50	7034	296	3.957	0.789	0.372	0.088	1	0.0	6717	9588
102684341	15.1	14.4	49	8254	460	4.280	0.537	0.212	0.178	1	0.0	7534	7633
102565139			76	7037	279	3.969	0.742	-0.285	0.101	1	-83.0	6823	6870
102776039	14.9	14.2	67	6890	101	4.485	0.293	-0.022	0.093	41	-83.0	6666	7845
102557600			66	6980	100	4.444	0.294	0.006	0.095	1	0.0	6653	8815
102548511			52	6987	299	3.938	0.743	0.282	0.109	71	0.0	6725	7659
102693656	15.1	14.5	44	6981	282	3.879	0.777	0.200	0.122	1	-83.0	6687	8632
102570196			48	8451	456	4.342	0.541	0.171	0.198	91	0.0	7422	9159
102705089	14.6	14.0	60	6939	287	3.829	0.838	0.169	0.087	51	0.0	6647	8586
102569488	12.5	11.9	74	7170	293	3.996	0.758	-0.144	0.142	41	-83.0	6703	8850
102604639	15.0	14.4	55	7095	112	4.372	0.295	-0.021	0.113	1	0.0	6784	8823
102791134	14.6	13.9	83	7230	97	4.207	0.342	0.018	0.076	1	0.0	6673	8513
102749568	15.0	14.4	57	7229	309	4.157	0.586	0.386	0.080	161	-83.0	6730	7373
102570647			55	7125	271	4.183	0.702	0.285	0.077	11	-83.0	8626	7397

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	v _{ini} [km/s]	v _r [km/s]	Teff CaK [K]	Teff Gband [K]
102837301			75	7179	306	4.068	0.739	-0.101	0.107	41	0.0	6808	9119
102551611			77	7249	110	4.545	0.240	-0.005	0.094	61	0.0	6806	7394
102560909			67	7289	293	3.968	0.672	0.270	0.119	41	0.0	6683	8048
102798705			80	7349	318	4.127	0.755	0.191	0.077	65	-83.0	6756	9083
102757419	14.6	14.1	53	7523	296	4.143	0.745	0.319	0.100	1	0.0	6558	7495
102582498	14.5	14.0	83	7343	296	4.221	0.675	0.189	0.079	101	0.0	6772	8143
102796069			42	9048	2492	3.609	1.024	0.518	0.182	1	0.0	7340	9065
102827205			47	8269	445	4.172	0.549	0.265	0.156	111	0.0	7524	9263
102800021			65	7698	342	4.024	0.736	0.092	0.119	1	-83.0	6861	7992
102788827			69	7552	117	4.721	0.242	0.014	0.095	1	-83.0	6884	9446
102775862	14.0	13.6	76	7702	336	4.195	0.623	-0.130	0.102	61	-83.0	7066	8957
102731426	14.1	13.6	61	7535	309	4.021	0.723	0.373	0.085	41	0.0	6722	8995
102650054			52	8497	457	4.334	0.536	0.186	0.177	1	0.0	7435	9467
102585014			74	7802	328	4.109	0.741	0.071	0.105	41	-83.0	6849	9100
102581252	15.6	14.1	54	8689	452	4.256	0.542	0.173	0.137	1	0.0	7391	8879
102674135	14.2	13.7	81	7867	96	4.720	0.224	0.032	0.089	1	-83.0	6790	9179
102727794	15.6	14.3	46	8625	454	4.207	0.550	0.173	0.154	41	0.0	7498	9089
102776522	14.6	14.0	71	7897	337	4.008	0.695	0.289	0.103	91	0.0	6872	8466
102779993	14.6	14.1	107	7922	377	4.250	0.620	0.099	0.079	21	-83.0	6918	8531
102826994			50	8146	142	4.607	0.266	-0.010	0.190	1	0.0	7459	8857
102819853			86	7891	353	4.087	0.658	0.185	0.080	33	0.0	6862	9302
102590462	14.0	13.6	88	7964	355	4.055	0.719	-0.205	0.119	1	0.0	7112	9434
102618712	15.0	14.1	47	8494	129	4.657	0.238	-0.241	0.191	21	0.0	7558	9064
102771442			58	8174	366	4.308	0.628	0.168	0.135	1	0.0	7070	9395
102808308			75	7888	364	4.256	0.564	0.483	0.097	91	-83.0	6923	8900
102752122	14.1	13.7	75	8017	372	4.288	0.582	0.371	0.094	125	0.0	6959	8762
102764904	14.8	14.3	90	8097	393	4.124	0.650	0.190	0.098	71	0.0	7037	9359
102829349			47	8331	478	4.042	0.631	-0.134	0.194	1	0.0	7516	9761
102696728	14.1	13.8	86	8256	113	4.629	0.184	-0.033	0.105	1	0.0	7148	9762
102741762	15.0	14.5	113	8048	466	4.080	0.678	-0.373	0.175	1	-83.0	7552	9657

Table B.1. continued.

CoID	B_{mag} [mag]	V_{mag} [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	$v \sin i$ [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102542773			45	8210	129	4.564	0.237	0.185	0.180	105	0.0	7395	9104
102617710	15.6	14.3	51	8402	101	4.615	0.299	-0.064	0.184	161	0.0	7444	9518
102793901	14.9	14.3	92	8271	106	4.669	0.248	0.017	0.089	1	-83.0	6944	9042
102609629	16.0	14.4	48	8502	445	4.117	0.590	0.041	0.215	1	0.0	7452	9344
102818858			47	8645	472	4.151	0.555	0.176	0.148	1	0.0	7529	9702
102547091			46	8385	499	4.083	0.623	-0.076	0.170	1	0.0	7418	9369
102647075			45	8505	453	4.061	0.578	-0.016	0.166	13	0.0	7433	9307
102701159	15.4	14.4	53	8337	431	4.180	0.586	-0.108	0.166	1	0.0	7364	9049
102583488	15.4	13.8	52	9234	502	3.976	0.522	0.710	0.161	1	0.0	7276	8969
102795012			50	8373	465	4.305	0.554	0.082	0.215	31	0.0	7521	9113
102551477			51	8581	452	4.269	0.525	0.113	0.210	51	0.0	7485	9208
102616497			45	8099	465	4.183	0.628	-0.115	0.173	51	0.0	7480	9404
102776185	14.8	14.3	48	8531	444	4.297	0.521	0.190	0.151	1	0.0	7552	9086
102542687			33	9118	5146	3.386	1.107	0.319	0.122	3	-83.0	6788	7709
102772497			48	10103	4473	3.474	1.060	0.984	0.084	1	0.0	7266	9403
102756674	14.2	13.6	45	10067	4545	3.343	1.064	0.935	0.117	131	0.0	7326	8794
102831970			48	8675	449	4.208	0.518	0.584	0.166	117	0.0	7329	9810
102608415	16.2	14.1	26	11983	4453	3.268	1.099	-0.156	0.929	1	-166.0	6564	5208
102542733			47	8817	452	3.934	0.546	0.594	0.161	31	0.0	7227	9137
102830887			36	12851	4342	3.328	1.083	0.456	0.467	1	581.1	6658	8063
102634566	13.8	13.4	49	8912	363	3.975	0.403	0.564	0.176	1	0.0	7503	9720
102791560			45	8324	450	4.239	0.518	0.214	0.194	1	0.0	7445	9198
102702661			46	9883	4540	3.295	1.064	0.967	0.089	91	0.0	7476	8860
102564264			47	9061	449	3.846	0.555	0.763	0.168	153	0.0	7255	9094
102583455	15.5	13.8	35	12619	4328	3.226	1.147	-0.032	0.753	11	-166.0	5475	6116
102784934	14.7	14.2	48	10121	4481	3.374	1.060	0.970	0.086	1	0.0	7283	9273
102673802	15.6	14.1	52	9842	4224	3.551	1.015	0.971	0.086	1	0.0	7360	8992
102779592	15.3	13.6	34	12705	4315	3.311	1.086	0.485	0.613	1	249.0	5354	5928
102782458	15.4	13.6	50	8598	425	4.171	0.579	0.208	0.171	1	0.0	7473	8688
102817237			48	8348	458	4.014	0.625	0.282	0.234	1	0.0	7451	8737

Table B.1. continued.

CoID	Bmag [mag]	Vmag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	vsini [km/s]	v_r [km/s]	Teff CaK [K]	Teff Gband [K]
102784195	15.0	13.3	47	8076	456	4.148	0.608	-0.032	0.141	35	0.0	7504	9224
102690760	14.3	13.9	48	8177	111	4.722	0.221	-0.055	0.169	11	0.0	7386	9059
102798365			31	13104	4324	3.476	1.112	0.345	0.532	1	-913.1	6628	5545
102670790	16.0	14.5	38	13462	4374	3.091	1.088	-0.222	0.910	1	83.0	6743	5208
102572121	15.6	14.1	45	8289	457	4.206	0.540	0.232	0.179	1	0.0	7451	8849
102655628	15.9	14.4	49	10154	4444	3.457	1.060	0.968	0.084	161	0.0	7267	9311
102549392			42	13274	4407	3.370	1.093	0.165	0.608	1	-83.0	6709	5635
102836298			56	10122	4152	3.641	0.999	0.983	0.081	1	0.0	7482	9296
102700305	14.8	14.4	61	13235	4258	3.496	1.020	0.279	0.525	191	-83.0	8262	9790
102539588			45	9952	4545	3.416	1.064	0.935	0.121	41	0.0	7299	9301
102653807	15.6	13.8	51	8592	472	4.068	0.562	0.580	0.171	87	0.0	7344	8970
102821251			48	9683	556	4.042	0.464	0.945	0.104	53	0.0	7300	8881
102727616	14.6	14.3	47	9616	4367	3.420	1.033	0.940	0.110	1	0.0	7485	9665
102692824	14.2	13.9	46	9680	4395	3.590	1.032	0.967	0.101	1	0.0	7450	9170
102739378	15.5	14.4	33	13549	4086	3.329	1.123	0.230	0.563	1	-913.1	6739	7426
102582475	14.5	14.0	49	8895	477	4.209	0.576	0.478	0.192	33	0.0	7353	8989
102596292	15.7	14.2	49	9247	493	3.878	0.516	0.861	0.121	9	0.0	7417	8656
102807304			47	8746	461	4.015	0.582	0.486	0.208	9	0.0	7497	8868
102690389	15.6	14.3	50	8565	454	4.230	0.547	0.128	0.192	1	0.0	7484	9444
102814290			44	10125	4537	3.351	1.064	0.930	0.107	91	0.0	7263	8347
102549430			38	13809	4412	2.987	1.076	0.192	0.421	1	-83.0	6768	6762
102647876			51	10007	4432	3.441	1.054	0.946	0.106	1	0.0	7454	8850
102569955	13.5	12.1	46	13952	4128	3.101	1.084	0.348	0.420	111	-83.0	6654	6290
102711799			50	8022	124	4.534	0.248	-0.030	0.174	51	0.0	7434	9440
102637068	14.6	14.1	50	8632	430	4.025	0.607	0.436	0.193	1	0.0	7361	8700
102749206			50	8365	476	4.272	0.539	0.056	0.156	1	0.0	7441	8665
102621757	14.4	14.0	49	9898	4479	3.434	1.058	0.999	0.086	1	0.0	7350	9259
102838031			48	10146	4477	3.503	1.058	0.953	0.100	1	0.0	7415	9452
102651871	14.8	14.1	46	9374	352	3.934	0.367	0.768	0.166	127	0.0	7402	9468
102675585	14.6	14.3	49	8953	366	3.968	0.405	0.771	0.164	111	0.0	7458	9611

Table B.1. continued.

CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	S/N	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]	<i>vsini</i> [km/s]	<i>v_r</i> [km/s]	Teff CaK [K]	Teff Gband [K]
102815684			47	8132	142	4.466	0.280	0.126	0.164	9	0.0	7432	9411
102794172	12.7	12.4	47	10055	4367	3.506	1.035	0.956	0.091	151	0.0	7397	9744
102828402			50	8417	121	4.513	0.294	-0.047	0.196	1	0.0	7390	9263
102790422	15.2	14.5	47	10071	4322	3.514	1.028	0.924	0.115	41	0.0	7492	9962
102825965			45	8115	464	4.035	0.634	-0.287	0.215	1	0.0	7503	9501
102570129	14.6	14.1	54	8252	438	4.398	0.441	0.249	0.103	1	0.0	7419	9680
102773756	15.1	14.5	53	10050	4217	3.519	1.008	0.962	0.095	1	0.0	7469	9403
102738316	15.6	14.4	47	10020	4495	3.374	1.061	0.957	0.094	1	0.0	7178	9145
102546488			48	10016	4505	3.466	1.060	0.933	0.117	1	0.0	7329	9402
102609450			53	9834	4193	3.599	1.005	0.974	0.090	1	0.0	7421	8442
102770429	14.9	14.3	45	8922	458	4.243	0.554	0.633	0.211	1	0.0	7192	9844
102821658			46	8960	463	3.867	0.606	0.195	0.302	9	0.0	7370	8594
102751354	14.7	14.1	49	9460	380	3.936	0.346	0.853	0.136	97	0.0	7428	9686
102553834			47	8700	429	4.366	0.484	0.705	0.173	191	0.0	7355	9894
102593664	16.1	14.4	50	10294	4439	3.376	1.057	0.959	0.089	1	0.0	7284	9475
102753982	14.0	13.6	128	17085	1971	3.700	0.622	0.317	0.175	111	-166.0	8248	9921
102792924	15.3	14.0	51	8478	451	4.087	0.605	0.065	0.197	1	0.0	7436	9429
102577020	14.8	14.5	112	17159	6126	4.166	0.646	-2.357	0.951	1	-415.1	8051	9194
102549077			48	8489	438	4.240	0.546	0.188	0.189	1	0.0	7317	9176

Appendix C

Catalog of identified γ Doradus stars

Table C.1. Catalog of all 452 identified stars with γ Doradus pulsation from IRa1, LRa1 and LRa2: Corot Identification (CoID), B magnitude, V magnitude, frequency of the dominant mode, amplitude of dominant mode, total number of frequencies, number of combination frequencies, effective temperature, surface gravity and metallicity.

Nr.	CoID	B_{mag} [mag]	V_{mag} [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	T_{eff} [K]	σ T_{eff} [K]	$\log g$ [dex]	σ $\log g$ [dex]	M/H [dex]	σ M/H [dex]
1	102774162	15.0	14.4	0.4	123	21	13	6663	259	4.03	0.81	0.13	0.11
2	102782335	15.2	14.4	1.2	12294	183	161	6786	120	3.62	0.26	-0.10	0.13
3	102793128	15.4	14.7	2.4	1482	35	2	6860	100	4.20	0.18	0.11	0.10
4	102808262	14.9	14.3	0.7	108	2	1	6916	274	3.82	0.90	-0.14	0.11
5	102809016	16.1	15.5	2.3	2083	8	3	6315	799	3.41	1.06	-0.05	1.63
6	102812091	15.7	15.1	1.5	1964	14	10	6623	587	4.00	0.77	0.65	1.15
7	102814491	16.0	15.2	1.3	1068	29	12	6643	2473	3.71	0.90	0.04	-
8	102827614	16.2	15.5	0.9	3874	21	13	6130	99	3.78	0.20	0.22	0.13
9	102828606	15.8	15.1	0.9	512	12	7	6707	715	4.28	0.81	0.52	0.91
10	102844478	12.9	12.4	0.4	114	16	9	6643	262	3.77	0.93	-0.23	0.12
11	102859275	16.1	15.6	2.3	1249	17	13	7157	754	4.21	0.66	-0.78	0.43
12	102895770	15.7	15.0	1.4	205	4	1	6106	638	3.40	0.92	-0.17	0.57
13	102906171	15.5	14.9	0.7	1492	56	2	6792	451	3.83	0.55	0.49	0.78
14	102910601	16.6	15.8	3.6	1962	10	1	6586	1052	2.98	1.26	0.56	-
15	102945383	16.4	15.8	1.1	20516	67	52	7258	917	4.44	0.75	0.18	0.49
16	102705441	14.4	13.9	0.6	120	12	7	7331	101	3.80	0.12	0.19	0.09
17	102726709	14.3	13.7	1.5	603	48	38	6917	100	3.21	0.13	0.19	0.07
18	102729282	15.0	14.3	0.5	228	20	8	6515	100	4.23	0.28	-0.02	0.09
19	102732855	14.3	13.7	0.4	121	2	1	6756	263	3.84	0.92	-0.14	0.11
20	102739246	15.2	14.6	1.1	2654	92	75	7156	100	4.52	0.29	-0.01	0.11
21	102739932	15.2	14.5	4.0	471	23	13	6780	101	3.60	0.22	0.00	0.10
22	102741636	15.7	14.2	1.1	478	72	61	6158	100	2.44	0.10	0.24	0.10
23	102744621	13.0	12.5	1.4	4300	92	74	6590	100	3.51	0.15	-0.30	0.14
24	102747222	13.6	12.9	0.4	186	95	79	6285	242	4.12	0.61	0.68	0.14
25	102748124	14.3	13.7	0.4	464	46	33	6296	264	3.85	0.82	-0.09	0.09
26	102749931	13.6	13.0	1.1	287	37	27	6942	100	3.27	0.14	0.22	0.08

Table C.1. continued.

Nr.	CoID	Bmag [mag]	Vmag [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
27	102751232	14.5	13.9	0.6	1861	49	40	6769	99	3.96	0.19	0.10	0.10
28	102752622	14.6	13.9	0.4	15619	100	10	6416	267	4.02	0.95	-0.17	0.08
29	102755653	12.7	12.2	1.4	99	65	36	6363	100	3.90	0.16	-0.40	0.13
30	102756157	13.1	12.6	0.9	370	36	26	7081	283	3.83	0.87	0.31	0.09
31	102756677	14.4	13.6	0.6	84	12	7	6599	100	3.20	0.15	0.15	0.08
32	102763149	13.6	13.1	0.8	1274	39	29	6598	100	4.17	0.17	-0.28	0.13
33	102766835	14.1	13.2	0.9	13443	186	167	8939	1448	2.63	0.68	0.00	0.00
34	102769848	14.3	13.7	1.2	5340	81	71	7120	287	4.06	0.73	0.21	0.13
35	102773661	14.7	14.1	0.4	678	15	8	6644	263	3.83	0.81	-0.04	0.10
36	102774175	14.3	13.7	2.2	3582	39	31	7005	111	3.53	0.32	0.19	0.10
37	102775193	14.9	14.3	0.7	290	5	1	6993	100	3.56	0.10	0.03	0.12
38	102775908	14.6	14.1	1.7	96	2	1	7513	100	4.18	0.11	-0.33	0.16
39	102779116	14.8	14.0	1.8	2233	24	15	6603	99	4.18	0.16	-0.42	0.15
40	102780246	14.9	14.3	1.3	222	6	2	6343	100	3.47	0.23	-0.42	0.12
41	102782199	13.1	12.5	2.2	64	14	6	6678	100	3.61	0.22	-0.13	0.11
42	102785976	13.8	13.3	2.4	3448	76	68	6744	99	4.14	0.30	-0.22	0.12
43	102787863	12.8	12.3	3.0	97	12	5	6793	98	3.65	0.40	-0.30	0.12
44	102787904	15.5	14.7	2.6	964	33	23	7161	439	4.30	0.42	0.37	0.60
45	102794098	13.6	13.0	0.7	166	26	19	6410	99	3.43	0.10	-0.17	0.14
46	102794767	15.0	14.3	2.2	613	55	42	6558	99	3.82	0.17	-0.30	0.13
47	102797129	14.2	13.6	1.1	2737	47	27	6448	100	4.14	0.13	-0.33	0.12
48	102803103	13.3	12.8	2.3	1258	100	88	7536	320	4.30	0.61	0.72	0.10
49	102804209	14.5	13.9	0.4	2220	25	18	6535	271	3.94	0.78	-0.12	0.09
50	102804403	14.1	13.5	0.4	2060	21	16	6429	265	3.88	0.92	-0.30	0.10
51	102805470	13.9	13.3	0.6	80	6	3	6318	100	3.90	0.33	-0.44	0.15
52	102806410	14.5	13.9	1.6	343	13	5	6388	100	3.92	0.19	-0.33	0.13
53	102807464	13.7	13.2	0.9	700	19	12	6922	277	3.90	0.87	-0.28	0.10
54	102809609	12.9	12.4	0.4	156	19	12	6822	100	4.23	0.32	-0.00	0.10
55	102810912	13.5	12.9	0.5	51	4	1	6590	310	3.93	0.74	0.38	0.11
56	102812436	13.0	12.5	0.9	933	40	33	6855	99	4.10	0.16	-0.12	0.10

Table C.1. continued.

Nr.	CoID	B_{mag} [mag]	V_{mag} [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
57	102813622	15.0	14.3	1.4	5052	48	39	7119	315	4.10	0.35	-0.31	0.36
58	102814342	14.4	13.9	0.8	273	15	12	7324	103	4.36	0.22	-0.03	0.13
59	102814740	13.0	12.5	0.6	175	10	4	7075	251	3.95	0.84	0.25	0.10
60	102815542	14.8	14.2	1.5	20004	63	37	6885	91	3.54	0.46	-0.21	0.11
61	102821032	15.1	14.4	0.6	2112	15	7	6245	100	4.32	0.12	-0.11	0.09
62	102822774	15.0	14.2	1.2	6315	60	41	6614	113	3.58	0.11	0.21	0.08
63	102823015	13.4	12.9	0.7	485	16	10	6603	98	4.02	0.10	-0.40	0.14
64	102824452	13.5	13.1	3.1	5496	69	56	6748	97	3.80	0.31	-0.31	0.13
65	102825160	14.2	13.6	1.1	612	32	11	6394	100	4.36	0.12	-0.19	0.11
66	102828251	13.2	12.9	0.4	582	23	9	7223	99	3.91	0.24	-0.04	0.53
67	102829169	14.3	13.4	0.4	81	12	8	6085	100	4.23	0.22	-0.00	0.13
68	102830899	13.8	13.2	0.7	141	6	1	6388	100	3.78	0.17	-0.21	0.11
69	102830960	14.5	13.3	0.4	939	16	7	6196	314	3.91	0.63	0.87	0.12
70	102834662	15.0	14.3	0.5	376	9	1	6852	278	3.82	0.84	-0.36	0.11
71	102838753	13.9	13.2	3.0	207	13	6	6260	99	3.64	0.13	0.19	0.09
72	102839960	13.1	12.6	0.7	166	19	13	6261	99	4.07	0.13	-0.26	0.11
73	102840281	13.5	13.0	1.7	1132	106	87	7121	104	4.13	0.28	-0.07	0.11
74	102840317	13.1	12.6	1.7	1161	44	26	6702	102	4.05	0.16	-0.19	0.12
75	102840875	13.8	13.3	2.2	7111	56	47	6951	99	3.86	0.31	-0.22	0.11
76	102841679	14.5	13.7	0.6	169	13	5	6335	99	3.55	0.25	0.51	0.10
77	102843705	15.0	14.4	0.4	786	12	6	7021	275	3.76	0.94	-0.26	0.11
78	102844475	15.0	14.4	0.5	265	4	1	6753	100	3.78	0.18	-0.08	0.09
79	102846341	13.1	12.7	0.6	1875	48	35	6753	100	3.99	0.21	-0.22	0.12
80	102853510	13.0	12.5	0.5	3489	42	27	6400	268	4.01	0.84	-0.14	0.09
81	102855391	15.9	15.2	1.2	17210	75	62	6844	644	4.27	0.66	-0.31	-
82	102856510	14.4	13.8	1.1	3130	49	39	7256	167	4.49	0.30	-0.05	0.91
83	102858680	15.7	15.1	1.9	661	12	7	6512	534	3.74	0.67	-0.40	0.74
84	102863676	12.6	12.2	0.5	136	22	16	6769	271	3.73	0.91	-0.34	0.11
85	102867128	14.2	13.6	1.5	801	25	21	6781	100	4.01	0.19	-0.11	0.11
86	102868165	15.7	14.5	1.1	437	28	19	6674	425	2.12	0.71	0.90	-

Table C.1. continued.

Nr.	CoID	Bmag [mag]	Vmag [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
87	102879010	13.8	13.3	0.8	8509	61	51	6723	101	3.94	0.21	-0.19	0.12
88	102879180	12.8	12.3	0.4	134	13	8	7667	333	3.94	0.84	0.11	0.11
89	102884037	14.8	14.2	0.5	2211	18	12	6289	100	4.03	0.12	-0.02	0.11
90	102887496	13.1	12.6	1.1	197	16	8	6769	99	3.54	0.25	0.04	0.09
91	102889080	13.9	13.3	0.4	359	20	13	6508	280	3.79	0.84	0.10	0.09
92	102897454	14.4	13.8	0.7	139	7	3	6717	275	3.89	0.85	0.08	0.10
93	102897973	15.2	14.6	2.7	557	8	3	6986	538	3.19	0.61	0.03	0.29
94	102903251	14.1	13.4	0.4	196	8	2	6806	131	4.48	0.26	0.58	0.62
95	102906119	13.0	12.6	2.9	619	95	49	7084	87	3.94	0.18	0.51	1.32
96	102909815	13.5	13.0	0.5	142	11	5	6657	261	3.73	0.94	-0.24	0.11
97	102910162	14.3	13.7	0.9	144	3	1	6778	278	3.89	0.85	0.08	0.10
98	102910396	15.0	14.4	0.5	131	2	1	7114	286	4.16	0.74	0.12	0.11
99	102912429	14.3	13.6	0.5	468	5	2	6652	289	3.88	0.79	0.31	0.10
100	102912800	15.1	14.4	0.7	995	11	6	6321	99	3.64	0.17	-0.00	0.10
101	102914353	14.2	13.6	1.4	3299	20	18	7074	100	4.31	0.31	-0.07	0.10
102	102918510	14.1	13.6	0.8	261	3	1	7174	314	4.16	0.66	0.37	0.10
103	102924346	14.4	13.9	4.4	254	17	11	6754	274	3.93	0.79	-0.13	0.10
104	102927705	14.4	13.9	2.3	158	4	1	6732	291	3.76	0.93	-0.30	0.12
105	102930797	14.4	13.8	0.4	844	8	1	6618	276	3.80	0.79	-0.10	0.10
106	102933066	15.0	14.4	3.0	446	5	1	6975	300	3.95	0.81	-0.13	0.12
107	102936944	13.8	13.4	2.2	5965	70	61	7022	100	4.07	0.14	-0.28	0.13
108	102943831	14.5	14.0	0.6	180	13	5	6238	99	4.06	0.10	-0.19	0.10
109	102947113	13.6	12.9	0.4	3203	37	26	6302	268	4.21	0.75	-0.10	0.09
110	102948235	14.5	13.8	0.4	1047	21	12	6397	273	3.99	0.82	-0.11	0.10
111	102951005	12.7	12.3	1.7	722	46	4	6704	101	3.31	0.44	-0.52	0.14
112	102956197	13.1	12.6	0.9	1216	98	20	6820	99	4.14	0.21	-0.33	0.13
113	102959167	14.1	13.4	0.4	178	11	7	6647	298	3.88	0.76	0.46	0.09
114	102964939	14.2	13.6	0.7	98	5	3	6385	115	4.17	0.25	-0.18	0.11
115	102968100	13.5	12.9	0.4	156	19	14	6672	277	4.07	0.67	0.18	0.11
116	102972076	14.7	14.1	1.6	1377	21	17	6948	272	4.33	0.36	0.37	0.46

Table C.1. continued.

Nr.	CoID	B_{mag} [mag]	V_{mag} [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
117	102973367	14.0	13.4	0.9	220	8	4	6534	100	3.54	0.15	0.10	0.09
118	102975791	13.2	12.7	2.1	10389	110	91	7066	100	4.10	0.20	-0.08	0.11
119	102937513	13.9	13.3	0.5	111	7	3	6701	261	3.76	0.95	-0.30	0.12
120	102749148	13.5	13.0	1.3	98	34	25	6484	100	3.97	0.19	-0.31	0.12
121	102743567	12.4	12.0	1.2	16131	107	80	6842	100	3.83	0.26	-0.43	0.15
122	102962202	14.4	13.9	0.5	142	15	6	6605	258	3.90	0.92	-0.32	0.11
123	102777271	13.0	12.5	1.7	213	30	21	6611	99	3.61	0.30	-0.32	0.12
124	102902244	14.5	14.1	1.5	2287	114	100	6774	99	3.83	0.24	-0.22	0.12
125	102694533	14.4	13.8	0.5	1641	71	55	6659	100	4.43	0.26	-0.01	0.08
126	102697885	15.0	14.4	0.9	571	57	48	6977	100	4.41	0.28	0.04	0.14
127	102971417	13.2	12.7	0.4	40	7	2	6827	284	3.88	0.76	0.28	0.10
128	102695863	13.5	12.9	0.6	402	64	50	6444	100	4.05	0.17	-0.11	0.10
129	102919813	12.7	12.3	1.8	100	16	7	7450	297	4.10	0.77	0.17	0.09
130	102779568	13.9	13.3	0.4	1465	17	11	6382	285	3.92	0.84	0.19	0.08
131	102972169	13.4	13.0	0.7	82	17	12	6590	155	3.58	0.56	0.20	0.10
132	102773525	12.2	11.6	0.4	36	30	19	6154	267	3.90	0.83	-0.11	0.12
133	102980022	14.8	14.3	1.1	297	17	12	6595	100	3.74	0.18	-0.11	0.10
134	102969303	13.5	13.1	1.3	110	2	1	6949	99	3.88	0.23	-0.11	0.10
135	102922704	14.5	13.9	0.9	208	20	15	6522	102	3.55	0.18	-0.10	0.11
136	102974912	15.0	14.3	0.8	473	20	9	6194	99	3.95	0.12	0.10	0.08
137	102988422	15.5	14.8	1.5	1251	22	11	6186	100	3.94	0.19	0.09	0.09
138	102995134	14.4	13.7	0.4	117	27	16	6358	274	3.72	0.91	-0.28	0.09
139	103013316	13.4	12.9	0.5	1829	86	65	6158	99	4.13	0.13	-0.04	0.09
140	103017944	14.5	14.0	2.1	1287	54	43	6365	100	4.23	0.12	-0.10	0.11
141	103031332	15.3	14.7	1.9	668	27	19	6806	100	3.16	0.19	0.48	0.10
142	103038006	14.4	13.7	0.5	73	18	11	6303	337	3.77	0.95	0.32	0.11
143	103040641	13.9	13.5	0.4	139	17	9	6988	300	4.00	0.81	0.09	0.11
144	110655449	13.3	13.2	1.1	169	23	17	8195	93	3.78	0.18	-0.60	0.19
145	110655629	14.3	13.7	0.4	657	12	5	6389	260	3.77	0.96	-0.40	0.18
146	110656143	15.0	14.5	1.3	27259	105	86	6725	100	4.36	0.16	-0.00	0.10

Table C.1. continued.

Nr.	CoID	Bmag [mag]	Vmag [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
147	110656240	13.0	12.7	0.5	214	74	41	6245	98	3.20	0.14	-0.41	0.13
148	110657273	15.1	14.4	0.5	502	25	20	6286	100	3.72	0.14	-0.30	0.11
149	110657422	13.7	13.1	0.5	267	32	19	6704	276	3.70	0.92	-0.48	0.21
150	110657818	17.0	16.2	1.4	3257	85	74	6903	100	4.12	0.17	0.03	0.10
151	110657872	12.5	12.1	3.5	251	108	94	7059	102	3.81	0.25	-0.09	0.09
152	110658011	13.5	12.9	0.4	396	18	11	6108	255	3.61	0.92	-0.39	0.16
153	110658030	13.2	12.6	0.7	179	22	11	6425	100	3.70	0.19	-0.50	0.16
154	110658378	15.0	14.3	0.4	146	13	8	6110	280	3.92	0.78	0.14	0.13
155	110658559	13.8	13.2	0.6	493	8	5	6794	99	3.79	0.27	0.10	0.08
156	110658595	14.8	14.2	0.4	158	22	16	6694	102	4.32	0.31	0.03	0.09
157	110658632	14.6	14.1	1.1	1481	41	31	6639	100	3.25	0.42	-0.20	0.11
158	110658806	13.5	13.0	0.4	82	18	11	6296	100	3.67	0.12	-0.08	0.09
159	110659419	14.7	14.1	0.6	165	19	13	6634	100	4.13	0.14	-0.08	0.10
160	110659420	13.6	13.1	0.8	1345	41	30	7292	117	4.12	0.36	0.09	0.09
161	110659556	16.0	15.3	2.6	529	13	7	6728	98	3.74	0.25	0.17	0.12
162	110659661	13.6	13.0	0.4	237	33	26	6312	100	3.92	0.13	-0.11	0.10
163	110660526	14.2	13.6	0.4	175	22	12	6513	259	3.65	0.92	-0.48	0.22
164	110660674	13.0	12.5	5.0	105	3	1	6625	96	3.72	0.42	-0.51	0.16
165	110660861	14.4	13.8	0.7	-28126	103	88	6732	100	3.94	0.21	-0.10	0.11
166	110660925	14.7	14.1	0.9	3487	89	72	6161	114	4.06	0.18	-0.21	0.12
167	110661177	14.3	13.7	0.4	115	25	6	6186	291	3.90	0.69	0.18	0.12
168	110661529	14.0	13.3	0.5	5043	82	63	6412	100	4.52	0.18	0.01	0.07
169	110662768	13.7	13.2	0.6	1131	54	41	6365	99	4.12	0.11	-0.15	0.09
170	110663097	14.2	13.6	1.3	1912	86	69	6594	103	3.82	0.13	-0.01	0.10
171	110663254	14.6	14.1	1.5	7650	186	144	6764	99	3.92	0.24	-0.20	0.13
172	110663355	15.4	14.7	0.6	582	18	11	6037	99	3.59	0.10	0.04	0.08
173	110663623	14.5	13.8	0.4	513	7	2	6994	301	4.04	0.76	0.42	0.07
174	110663932	15.8	15.1	0.5	995	45	37	6218	100	4.17	0.11	-0.07	0.10
175	110664026	14.4	13.8	1.4	507	49	38	6813	101	3.81	0.22	0.08	0.10
176	110664036	15.7	15.0	0.5	287	21	15	6350	99	4.08	0.13	-0.24	0.11

Table C.1. continued.

Nr.	CoID	B_{mag} [mag]	V_{mag} [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
177	110664851	16.6	15.8	0.7	367	15	10	6258	99	3.88	0.10	-0.04	0.12
178	110665675	13.3	12.7	0.4	46	12	7	6260	292	3.89	0.79	0.19	0.10
179	110666132	15.1	14.5	2.6	4700	37	24	6924	99	3.77	0.16	0.40	0.07
180	110666300	12.4	11.8	1.8	106	14	7	6317	100	3.36	0.30	-0.09	0.10
181	110666475	16.8	16.0	2.5	4371	41	31	6982	99	3.28	0.10	0.49	0.16
182	110666606	14.5	14.0	1.2	26854	184	40	6887	99	3.70	0.36	-0.50	0.16
183	110666874	14.6	14.0	1.4	1492	63	17	6756	100	3.98	0.23	-0.51	0.15
184	110667309	14.1	13.5	0.5	185	19	11	6175	99	3.64	0.15	-0.51	0.14
185	110668784	15.1	14.4	3.0	300	28	15	6043	100	4.34	0.12	-0.37	0.13
186	110669350	14.0	13.4	0.5	1415	42	34	6277	100	4.40	0.10	-0.06	0.09
187	110669669	15.0	14.4	1.5	530	21	12	6687	99	3.85	0.13	-0.36	0.13
188	110670834	16.8	16.0	0.6	671	36	23	6149	100	3.80	0.10	-0.21	0.10
189	110671101	14.0	13.4	0.6	3206	63	51	6151	100	4.18	0.11	0.10	0.08
190	110672126	15.3	14.7	1.3	2270	106	84	6724	95	3.89	0.22	-0.10	0.10
191	110672621	17.0	16.3	2.1	1030	25	17	6220	99	3.55	0.23	0.66	0.27
192	110672896	15.0	14.4	1.7	267	13	7	6636	99	3.74	0.23	-0.22	0.11
193	110673312	13.5	13.0	0.7	521	57	47	6521	100	3.43	0.23	-0.09	0.10
194	110675139	15.2	14.5	1.5	1090	33	18	6381	100	4.18	0.11	-0.16	0.11
195	110675161	14.3	13.7	0.6	312	42	31	6437	100	3.91	0.13	-0.10	0.10
196	110675488	13.8	13.2	0.4	381	34	25	6669	268	3.84	0.96	-0.19	0.10
197	110676740	14.7	14.0	0.6	3628	54	42	6336	99	4.17	0.13	-0.11	0.10
198	110677743	13.1	12.5	0.6	167	26	20	6237	100	3.21	0.19	0.20	0.08
199	110677881	14.4	13.8	0.8	405	24	18	6445	99	3.15	0.20	-0.24	0.11
200	110679166	13.8	13.1	0.6	907	28	17	6837	101	3.70	0.19	-0.20	0.12
201	110679631	14.2	13.6	0.4	85	14	9	6946	99	4.25	0.33	0.02	0.09
202	110679760	14.7	14.2	1.1	752	32	23	6713	103	3.96	0.17	-0.03	0.11
203	110680218	13.9	13.2	0.7	109	23	16	6118	99	3.20	0.21	-0.30	0.12
204	110680312	15.6	14.8	0.5	326	32	22	6693	100	3.84	0.09	-0.06	0.10
205	110680680	15.2	14.6	0.4	1111	55	42	6220	100	3.93	0.09	-0.20	0.10
206	110681156	15.0	14.3	0.8	1777	59	49	6131	100	4.08	0.14	-0.26	0.11

Table C.1. continued.

Nr.	CoID	Bmag [mag]	Vmag [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
207	110682987	13.3	12.8	1.1	95	4	1	6737	100	3.94	0.19	-0.17	0.12
208	110683658	13.6	12.9	0.5	109	17	9	6248	99	2.59	0.22	-0.20	0.11
209	110684538	12.5	12.0	2.5	91	31	16	6585	99	3.42	0.25	-0.09	0.10
210	110685299	16.4	15.7	3.5	5328	22	11	7198	100	4.30	0.16	0.59	0.11
211	110685897	14.8	14.1	0.9	284	29	22	6642	98	3.67	0.21	-0.01	0.09
212	110686860	13.1	12.6	0.4	76	14	10	6193	100	3.39	0.15	-0.16	0.09
213	110687058	12.8	12.3	1.5	243	59	44	6826	100	3.99	0.29	-0.11	0.11
214	110687065	15.2	14.6	1.1	2305	69	43	6581	94	3.34	0.20	0.11	0.11
215	110687297	17.0	16.1	1.2	14160	106	91	7290	100	3.72	0.25	0.46	0.11
216	110687852	13.0	12.6	2.2	8816	107	95	7110	115	4.34	0.14	0.11	0.09
217	110687911	13.2	12.7	0.9	125	26	18	6406	100	3.05	0.14	-0.19	0.11
218	110688653	15.2	14.5	0.9	160	19	13	5946	99	3.60	0.13	-0.20	0.10
219	110689112	15.1	14.5	0.5	1093	48	31	6866	332	4.09	0.76	0.30	0.09
220	110689434	14.9	14.2	0.5	18854	60	13	6435	271	4.03	0.81	-0.12	0.08
221	110689824	12.3	11.7	0.4	125	48	24	6709	261	3.89	0.90	-0.14	0.13
222	110740690	14.9	14.2	0.9	165	16	10	6498	100	3.57	0.19	0.29	0.08
223	110741303	13.4	12.7	0.4	55	20	14	6190	273	3.87	0.83	-0.07	0.10
224	110741585	13.6	12.9	0.6	511	37	28	6174	100	3.67	0.15	-0.02	0.08
225	110741643	14.0	13.4	1.5	13438	12	8	6851	99	4.00	0.19	-0.22	0.10
226	110742131	14.9	14.3	1.7	3303	91	68	6760	99	3.98	0.18	-0.11	0.11
227	110743410	15.0	14.4	1.5	1320	84	68	6784	100	3.92	0.15	0.04	0.10
228	110744148	14.7	14.0	0.4	259	64	52	6778	5200	3.29	0.98	-0.52	0.27
229	110744374	15.3	14.8	0.5	1128	60	50	7105	277	4.11	0.74	0.08	0.10
230	110744517	15.7	15.0	0.5	5218	60	42	6399	100	4.29	0.11	0.38	0.19
231	110744962	14.6	14.0	1.5	593	59	48	6373	100	3.75	0.17	-0.17	0.11
232	110745170	15.1	14.6	1.8	4387	92	77	6760	94	3.82	0.45	-0.25	0.10
233	110745378	13.7	13.2	0.5	225	19	10	6401	100	3.84	0.11	-0.27	0.13
234	110745490	14.4	13.8	1.8	2172	32	10	6582	98	3.75	0.12	-0.20	0.13
235	110745940	13.7	13.2	1.1	110	34	28	6352	100	3.99	0.15	-0.21	0.12
236	110746114	14.3	13.7	1.1	2633	101	64	6650	99	3.95	0.20	-0.26	0.10

Table C.1. continued.

Nr.	CoID	B_{mag} [mag]	V_{mag} [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
237	110746551	13.0	12.4	0.4	90	34	24	6249	99	3.85	0.14	-0.40	0.13
238	110746756	13.9	13.3	0.6	354	16	10	7124	99	3.44	0.24	0.45	0.07
239	110747480	13.8	13.3	0.9	183	25	15	6642	99	3.63	0.26	-0.39	0.14
240	110748014	14.9	14.4	2.3	487	12	6	6561	100	3.68	0.27	-0.19	0.12
241	110748320	15.0	14.4	0.7	689	44	8	6133	99	4.01	0.10	-0.30	0.12
242	110748444	14.3	13.6	0.9	220	51	40	6051	99	4.15	0.12	-0.15	0.10
243	110748551	14.1	13.4	0.9	386	36	25	6176	99	3.63	0.16	-0.20	0.10
244	110748817	15.6	15.0	0.9	553	37	31	6367	100	3.51	0.25	-0.32	0.12
245	110749139	16.4	15.7	0.4	2962	52	42	6184	100	4.22	0.22	0.02	0.12
246	110749164	15.7	15.1	0.9	443	36	29	7775	119	4.15	0.26	0.40	0.12
247	110749647	14.9	14.3	0.6	3749	69	55	6178	99	4.33	0.13	-0.18	0.10
248	110750344	15.8	15.1	0.6	575	28	21	6393	100	3.60	0.10	0.24	0.09
249	110750470	13.3	12.7	0.9	121	31	22	6174	100	4.07	0.10	0.15	0.07
250	110751598	15.8	15.2	1.2	3204	52	39	6894	92	3.64	0.18	0.11	0.09
251	110752343	-	12.2	0.9	4794	99	77	6472	99	3.92	0.15	0.11	0.09
252	110753232	14.6	13.9	0.4	975	22	15	6674	275	3.98	0.79	0.30	0.09
253	110753584	16.2	15.5	0.6	980	41	35	6168	100	3.73	0.19	-0.50	0.12
254	110753724	15.3	14.5	0.4	209	15	10	6344	100	4.26	0.20	0.10	0.09
255	110754093	13.5	12.9	0.4	131	34	10	6698	265	3.76	0.98	-0.36	0.17
256	110755025	17.0	16.2	0.7	16032	83	72	7276	101	3.90	0.15	0.73	0.12
257	110755271	14.9	14.3	3.3	3004	53	43	7030	105	4.09	0.24	0.03	0.08
258	110756834	14.8	14.2	1.4	1465	58	47	8145	234	3.96	0.30	0.56	0.10
259	110757396	14.1	13.5	0.4	139	80	71	6819	269	4.11	0.76	-0.10	0.09
260	110758910	13.1	12.5	0.4	1108	75	41	6811	268	3.72	0.95	-0.13	0.11
261	110759393	15.6	14.8	0.5	508	31	21	6755	315	4.17	0.66	0.47	0.09
262	110759488	14.0	13.4	1.9	158	23	13	6340	100	3.86	0.16	-0.20	0.12
263	110760466	11.9	11.3	1.5	54	81	64	6459	99	3.88	0.14	-0.02	0.09
264	110760738	13.8	13.1	0.4	543	41	29	6221	257	3.68	1.00	-0.46	0.20
265	110762829	13.2	12.7	0.7	629	31	13	6539	96	3.79	0.28	-0.28	0.12
266	110763448	13.8	13.1	0.5	74	19	12	6361	100	3.86	0.27	-0.01	0.11

Table C.1. continued.

Nr.	CoID	Bmag [mag]	Vmag [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
267	110763453	14.9	14.3	0.5	23922	44	35	6354	99	4.06	0.12	-0.10	0.11
268	110763982	15.2	14.6	0.9	1840	86	75	6724	106	3.51	0.22	0.51	0.08
269	110765056	14.9	14.2	0.4	179	13	6	6288	291	3.82	0.76	0.36	0.08
270	110765245	13.7	13.1	0.5	3120	93	80	6416	285	4.26	0.69	0.38	0.08
271	110766647	14.8	14.2	0.7	1273	55	42	6132	99	3.91	0.13	-0.19	0.10
272	110766758	14.1	13.5	0.9	247	23	16	6522	100	3.75	0.20	-0.06	0.11
273	110767448	13.0	12.5	0.6	2279	91	75	6540	96	3.96	0.18	-0.21	0.11
274	110769129	16.2	15.5	0.7	1370	32	21	6142	99	3.63	0.16	-0.19	0.11
275	110769585	13.0	12.4	0.4	595	24	16	6446	271	3.80	0.84	-0.10	0.09
276	110772588	13.5	13.0	0.4	84	30	23	6158	99	3.80	0.14	-0.29	0.11
277	110773049	13.5	12.8	0.6	61	21	15	6142	99	3.59	0.15	-0.20	0.11
278	110773266	12.8	12.3	0.4	46	14	9	6317	275	3.83	0.83	-0.07	0.08
279	110775703	16.7	15.9	0.4	914	15	11	6781	294	4.18	0.71	0.30	0.09
280	110826586	15.4	14.8	1.8	6530	110	95	7023	99	4.04	0.22	0.09	0.10
281	110826908	15.9	15.3	0.5	254	9	4	6420	100	3.84	0.13	-0.22	0.11
282	110827202	13.2	12.6	0.4	82	25	18	6248	99	3.45	0.14	-0.11	0.10
283	110827446	15.3	14.6	0.8	13317	39	30	6296	100	3.96	0.10	-0.16	0.10
284	110828797	13.9	13.2	0.4	123	28	21	6248	100	4.26	0.20	0.01	0.09
285	110829365	12.8	12.4	5.1	235	33	27	6658	100	3.71	0.20	-0.00	0.10
286	110829538	14.7	13.7	0.9	11395	185	150	7549	1503	2.81	0.83	0.00	0.00
287	110830577	14.5	14.0	1.1	1224	67	45	6828	100	3.93	0.15	0.11	0.08
288	110831524	15.7	14.9	1.8	735	48	26	6248	100	4.14	0.11	-0.21	0.11
289	110831731	13.2	12.7	1.2	110	27	20	6451	99	4.04	0.12	-0.31	0.12
290	110832677	14.7	14.0	1.2	176	13	8	6414	100	3.62	0.16	-0.21	0.12
291	110833686	15.2	14.5	2.8	282	24	17	6036	99	3.94	0.11	-0.43	0.12
292	110833727	12.9	12.4	0.5	86	36	29	6382	100	4.64	0.17	-0.04	0.09
293	110834043	15.7	15.1	1.3	876	102	77	6824	101	4.54	0.14	-0.20	0.12
294	110834837	13.5	12.9	1.5	189	27	15	6384	99	3.52	0.18	-0.12	0.11
295	110835132	14.1	13.4	0.5	1696	22	14	6468	281	3.77	0.80	-0.09	0.07
296	110835484	14.4	13.8	0.8	251	32	23	5951	99	3.52	0.13	-0.87	0.12

Table C.1. continued.

Nr.	CoID	B_{mag} [mag]	V_{mag} [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
297	110835547	14.5	14.0	1.6	14367	107	94	6863	93	3.50	0.25	-0.29	0.13
298	110836118	13.6	12.9	0.4	416	37	28	6810	277	3.88	0.84	0.11	0.10
299	110837430	14.1	13.4	0.4	98	17	12	6442	100	4.06	0.22	-0.03	0.11
300	110837967	15.8	15.1	0.4	154	10	4	6327	267	3.75	0.94	-0.39	0.17
301	110838845	14.5	13.7	0.4	655	26	9	6178	100	3.42	0.19	-0.44	0.14
302	110839665	13.1	12.5	0.4	2250	104	86	6509	273	4.03	0.75	-0.13	0.09
303	110839808	15.0	14.3	0.4	182	15	10	6794	269	3.92	0.87	-0.12	0.09
304	110840785	14.5	13.9	3.2	1854	94	79	6823	100	3.63	0.25	-0.10	0.11
305	110841384	12.9	12.4	0.8	161	37	30	6499	98	3.60	0.22	-0.38	0.15
306	110841627	13.8	13.2	1.6	218	38	29	6669	99	3.99	0.21	-0.52	0.17
307	110842589	14.3	13.7	0.4	128	16	11	7051	100	4.34	0.29	0.03	0.09
308	110842761	14.4	13.7	0.4	92	19	8	5847	100	4.28	0.10	-0.20	0.09
309	110843162	12.8	12.2	0.5	89	27	20	6224	98	3.40	0.21	-0.10	0.11
310	110843556	14.9	14.3	2.4	1364	24	16	6686	98	3.71	0.17	-0.21	0.12
311	110844013	13.6	13.1	0.9	127	12	7	6390	99	3.16	0.19	-0.19	0.11
312	110844068	13.6	13.0	0.4	136	59	34	6316	264	3.61	0.96	-0.27	0.10
313	110845420	16.0	15.4	0.5	1505	54	46	6402	313	4.02	0.69	0.49	0.10
314	110848045	14.4	13.8	0.5	614	42	35	7182	1261	3.49	1.07	0.31	0.07
315	110848103	14.6	13.9	0.4	113	16	7	6308	100	3.91	0.12	-0.13	0.11
316	110848159	12.6	12.0	0.8	460	106	91	6740	99	4.14	0.27	-0.39	0.14
317	110848532	12.6	12.1	1.3	72	62	48	6484	99	3.81	0.29	-0.42	0.14
318	110849751	12.8	12.3	0.6	70	12	5	6639	100	3.62	0.21	0.20	0.07
319	110850207	14.6	14.0	0.5	1622	67	61	6275	100	3.85	0.13	0.00	0.09
320	110852586	14.3	13.7	1.4	577	13	8	6476	99	4.36	0.12	-0.17	0.10
321	110853363	13.6	13.1	0.4	360	65	41	7838	346	4.28	0.64	0.25	0.10
322	110853748	14.0	13.5	0.8	172	14	6	6387	99	4.00	0.20	-0.20	0.11
323	110854985	13.0	12.3	0.4	73	29	21	6151	100	3.44	0.16	-0.21	0.10
324	110855134	13.4	12.9	0.7	158	17	11	6672	100	3.82	0.18	-0.09	0.10
325	110855744	14.2	13.6	1.4	8395	64	31	6967	96	4.32	0.20	0.09	0.08
326	110856447	15.9	15.2	0.6	1334	40	30	6667	98	3.80	0.19	-0.21	0.12

Table C.1. continued.

Nr.	CoID	Bmag [mag]	Vmag [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
327	110857053	14.6	14.0	0.9	151	14	8	6271	100	4.32	0.13	-0.29	0.12
328	110857070	13.1	12.4	0.4	53	13	7	6178	292	3.73	0.80	-0.12	0.10
329	110858446	13.9	13.4	2.6	207	66	52	6259	99	3.78	0.18	-0.72	0.15
330	110861615	13.5	12.8	0.4	121	29	22	6086	301	3.91	0.78	0.07	0.08
331	110862157	12.5	12.0	0.9	5523	105	82	6597	99	3.93	0.17	0.00	0.09
332	102652519	14.7	13.9	0.5	155	16	9	6045	99	3.57	0.18	-0.19	0.10
333	102642172	14.7	14.0	1.7	268	17	8	6001	100	3.83	0.10	-0.06	0.10
334	102644561	14.7	14.1	0.4	1952	34	29	6544	290	3.92	0.82	0.18	0.09
335	102768672	14.9	14.4	0.7	2188	57	43	6042	100	3.63	0.13	-0.10	0.10
336	102678624	14.3	13.7	1.1	569	69	53	6343	100	4.00	0.14	-0.01	0.10
337	102606512	14.4	13.8	0.5	191	10	3	6856	100	4.11	0.23	0.03	0.10
338	102708748	14.2	13.7	0.9	532	46	38	6682	100	3.63	0.20	-0.03	0.11
339	102758637	14.9	14.3	1.2	480	6	1	6348	99	3.90	0.22	-0.10	0.14
340	102705089	14.6	14.0	1.5	5335	111	93	6939	287	3.83	0.84	0.17	0.09
341	102668415	14.4	13.8	1.2	4480	101	88	6797	100	4.23	0.21	-0.09	0.10
342	102651288	14.3	13.7	1.5	1583	77	62	6940	103	3.97	0.22	-0.11	0.12
343	102671368	14.5	13.9	1.2	525	34	24	7105	97	4.13	0.40	0.12	0.09
344	102662271	14.5	13.9	0.9	189	21	13	6618	100	3.43	0.26	-0.31	0.13
345	102787110	14.4	13.9	3.1	329	25	15	7365	105	4.32	0.19	0.09	0.09
346	102758389	14.9	14.2	0.4	155	37	28	6621	100	3.31	0.12	0.26	0.07
347	102722142	14.9	14.4	0.4	138	18	12	7366	99	4.11	0.20	0.08	0.11
348	102788480	13.5	13.1	0.5	225	26	17	6647	100	3.81	0.32	-0.32	0.11
349	102755935	15.4	14.0	0.4	496	38	29	5343	101	3.54	0.14	-0.13	0.10
350	102610695	15.3	14.3	0.4	581	21	13	6378	150	3.20	0.64	0.32	0.16
351	102594848	14.8	14.1	1.9	608	63	51	7282	102	3.93	0.15	0.35	0.09
352	102792924	15.3	14.0	2.5	239	42	30	8478	451	4.09	0.60	0.06	0.20
353	102600197	15.0	14.3	1.9	1041	33	23	6786	107	3.50	0.32	0.41	0.10
354	102568435	13.8	13.3	1.4	233	32	26	6611	104	3.92	0.18	-0.02	0.11
355	102575155	13.6	12.9	0.4	368	23	15	6723	100	4.22	0.28	-0.01	0.09
356	102576294	14.4	13.5	0.4	127	27	13	6238	295	3.75	0.81	0.22	0.13

Table C.1. continued.

Nr.	CoID	B_{mag} [mag]	V_{mag} [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
357	102576338	12.9	12.3	0.4	83	22	12	6801	278	3.84	0.86	0.23	0.09
358	102577364	13.8	13.3	0.8	1806	103	78	6661	99	3.64	0.12	-0.11	0.10
359	102579656	13.1	12.5	0.4	220	57	44	6717	101	4.42	0.27	0.00	0.07
360	102581750	12.1	11.7	0.8	129	65	48	6223	111	3.73	0.20	-0.62	0.13
361	102582080	13.5	12.9	0.4	68	14	7	6351	271	3.83	0.81	-0.10	0.10
362	102583546	12.8	12.3	1.6	446	80	50	6427	99	4.03	0.13	-0.27	0.12
363	102584409	12.0	11.6	0.5	656	51	41	6628	99	4.15	0.15	-0.19	0.11
364	102585799	15.1	14.5	0.4	670	30	22	7071	100	4.18	0.37	0.02	0.12
365	102589242	14.0	13.3	0.9	104	15	8	6484	99	3.77	0.26	-0.31	0.14
366	102591591	14.2	13.6	1.2	222	32	17	6564	108	3.63	0.22	-0.37	0.13
367	102593646	13.2	12.7	0.7	173	50	39	6232	100	3.55	0.19	0.10	0.09
368	102594380	12.4	12.0	0.5	435	25	20	6955	277	3.88	0.89	-0.13	0.15
369	102595215	14.6	14.0	0.8	753	48	36	6662	100	3.55	0.24	-0.07	0.13
370	102595296	12.5	12.1	1.4	2096	105	86	6694	91	3.67	0.33	-0.11	0.11
371	102595665	12.6	12.1	4.0	83	34	7	6442	101	3.81	0.20	-0.11	0.11
372	102598465	13.6	13.1	0.5	157	28	21	6732	100	3.94	0.20	-0.49	0.15
373	102600769	13.2	12.7	1.1	125	28	17	6752	101	3.65	0.15	0.09	0.09
374	102602901	12.6	12.2	2.6	7222	111	83	6935	101	3.97	0.26	0.10	0.10
375	102603174	12.6	12.1	0.4	44	5	2	6298	270	3.73	0.82	-0.08	0.07
376	102605393	14.0	13.4	1.2	18281	81	67	6587	99	3.81	0.30	0.22	0.14
377	102607721	15.1	14.4	0.8	848	76	66	6544	100	3.88	0.14	0.00	0.00
378	102611108	12.9	12.5	1.3	10440	109	93	6775	100	3.68	0.16	-0.32	0.19
379	102619496	13.4	12.9	1.2	164	44	32	6426	100	3.83	0.18	-0.34	0.13
380	102623294	13.6	13.1	1.1	1331	80	65	6276	90	4.37	0.13	-0.39	0.12
381	102627709	14.1	13.4	0.4	5024	60	52	6635	342	4.00	0.70	0.70	0.13
382	102628210	13.2	12.7	0.8	280	29	17	6361	100	4.26	0.14	-0.46	0.14
383	102628993	14.4	13.7	0.4	148	27	21	6877	102	4.44	0.28	0.02	0.10
384	102630779	14.1	13.5	0.5	1919	67	56	6287	284	3.92	0.83	0.07	0.11
385	102633730	12.2	11.7	0.8	133	78	68	6340	100	3.72	0.18	-0.34	0.13
386	102638583	14.4	13.7	2.4	106	19	14	6120	101	3.88	0.15	-0.41	0.12

Table C.1. continued.

Nr.	CoID	Bmag [mag]	Vmag [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
387	102639976	14.0	13.4	3.3	75	8	4	6672	99	3.76	0.15	0.01	0.11
388	102641286	14.3	13.7	0.5	2415	67	59	6275	100	3.83	0.13	-0.07	0.09
389	102642577	13.0	12.4	0.8	102	28	20	6569	100	3.42	0.26	-0.18	0.11
390	102645784	15.0	14.4	0.5	759	57	5	6964	99	3.99	0.10	-0.03	0.10
391	102646157	14.5	13.9	0.4	82	8	3	6444	316	4.17	0.68	0.70	0.13
392	102648777	13.5	12.8	0.8	102	13	7	6843	117	3.62	0.12	0.29	0.07
393	102648939	14.1	13.6	2.8	207	31	17	6941	104	3.88	0.22	0.08	0.10
394	102649553	12.2	11.8	5.2	1202	65	45	6774	98	3.72	0.34	-0.32	0.14
395	102649754	13.1	12.6	1.7	689	40	26	6626	100	3.60	0.11	-0.16	0.10
396	102652224	14.7	14.1	0.6	274	35	28	6364	100	4.18	0.13	-0.30	0.11
397	102657111	15.1	14.5	1.2	727	27	19	6755	101	3.72	0.25	-0.09	0.09
398	102657207	15.1	14.4	1.8	463	28	15	6863	98	4.08	0.20	-0.25	0.13
399	102657351	13.4	12.9	0.5	116	14	9	6819	99	4.17	0.19	-0.12	0.12
400	102660539	13.7	13.1	0.4	1419	36	27	6333	260	4.07	0.78	-0.13	0.09
401	102661313	12.2	11.8	0.9	103	27	18	6872	100	4.27	0.18	-0.25	0.12
402	102663084	14.8	14.2	0.9	1536	17	8	6578	99	4.22	0.12	-0.14	0.10
403	102664670	13.6	13.0	0.4	221	14	10	6774	101	4.09	0.34	0.02	0.12
404	102665216	15.1	14.4	0.9	8970	54	23	6469	100	3.70	0.10	0.14	0.09
405	102668074	13.1	12.5	0.6	277	19	13	6853	99	3.96	0.33	-0.09	0.10
406	102668347	14.8	14.0	9.7	218	29	21	6238	100	3.83	0.11	-0.01	0.08
407	102671929	14.0	13.4	0.8	227	13	7	6662	100	3.55	0.24	-0.23	0.11
408	102672729	14.3	13.7	0.5	468	32	23	6853	273	3.99	0.80	0.20	0.07
409	102674325	14.8	14.2	1.7	121	17	12	6639	100	3.94	0.13	-0.11	0.11
410	102674644	13.9	13.6	1.9	1021	24	13	7160	100	3.98	0.12	0.17	0.08
411	102677302	13.5	13.0	3.0	189	40	30	7627	99	4.50	0.10	-0.01	0.09
412	102678820	15.1	14.5	1.6	311	32	23	6519	112	3.92	0.10	-0.00	0.13
413	102679796	12.5	12.0	0.4	358	26	19	6688	298	4.07	0.72	0.41	0.10
414	102680138	13.3	12.9	2.3	4140	108	93	7041	99	4.01	0.20	-0.30	0.12
415	102681982	13.8	13.2	1.4	2840	105	89	6724	100	3.60	0.24	0.05	0.10
416	102686180	14.9	14.3	0.6	485	26	18	6731	100	3.49	0.10	0.09	0.08

Table C.1. continued.

Nr.	CoID	B_{mag} [mag]	V_{mag} [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
417	102690340	13.3	12.7	1.1	80	12	5	7012	103	3.39	0.17	-0.07	0.09
418	102691304	13.9	13.4	0.5	440	20	15	6909	268	3.79	0.96	-0.19	0.14
419	102697432	13.9	13.4	0.5	226	38	31	6792	268	3.84	0.85	0.09	0.10
420	102699895	13.7	13.1	0.5	76	10	5	6430	99	3.33	0.10	-0.01	0.08
421	102704602	13.6	13.1	1.6	1271	98	85	7072	101	4.24	0.13	0.03	0.10
422	102705737	14.4	13.8	0.4	2609	36	29	7165	286	4.18	0.67	0.33	0.09
423	102709507	14.2	13.6	0.5	325	23	16	6883	100	4.19	0.30	0.00	0.09
424	102710263	11.9	11.5	0.4	58	14	11	6623	252	3.65	0.99	-0.44	0.13
425	102710558	13.6	13.2	3.5	89	8	2	7630	100	4.25	0.23	0.10	0.14
426	102711000	12.9	12.5	0.5	282	17	12	6667	99	3.78	0.24	-0.51	0.14
427	102711294	13.2	12.7	1.1	9944	64	34	6678	96	4.14	0.26	0.02	0.08
428	102713189	14.5	13.8	1.5	199	31	23	5819	100	4.04	0.10	-0.58	0.12
429	102713311	14.4	13.8	1.5	1335	89	71	6740	99	3.08	0.39	-0.09	0.11
430	102719503	13.6	13.0	0.5	477	56	38	6413	100	4.03	0.15	-0.31	0.13
431	102722140	13.7	13.2	1.2	176	41	32	6548	92	3.77	0.22	-0.18	0.12
432	102724031	14.2	13.5	1.4	1606	70	61	6683	93	2.87	0.23	-0.46	0.14
433	102724938	15.2	14.5	2.4	3959	64	50	6848	98	3.57	0.21	0.02	0.11
434	102725454	13.9	13.3	0.8	1582	66	51	6330	100	3.79	0.10	-0.20	0.11
435	102725480	12.9	12.5	0.5	1299	108	95	6475	260	3.88	0.95	-0.33	0.12
436	102730229	13.2	12.8	0.8	1240	57	45	6773	100	4.10	0.14	-0.01	0.11
437	102731434	12.0	11.5	1.4	212	30	22	6786	99	4.35	0.12	-0.01	0.09
438	102732058	13.8	13.4	3.3	1016	79	66	6814	100	3.83	0.20	-0.07	0.15
439	102751457	12.1	11.6	0.5	116	59	41	6846	274	3.93	0.78	0.20	0.09
440	102753683	12.9	12.4	0.5	70	23	17	6904	289	3.96	0.90	0.19	0.11
441	102755158	12.2	11.7	2.2	62	18	11	6273	100	4.31	0.15	-0.37	0.15
442	102757495	14.6	14.0	1.7	1098	57	48	6833	100	3.83	0.19	-0.01	0.10
443	102760000	12.3	11.9	0.4	25	12	9	6502	280	3.84	0.81	0.10	0.09
444	102762506	13.0	12.5	0.4	491	43	25	6747	265	3.83	0.88	-0.10	0.13
445	102766985	13.3	12.8	3.7	183	12	2	6172	99	3.85	0.14	-0.30	0.11
446	102769906	13.0	12.6	0.6	81	19	13	6471	99	4.11	0.14	-0.42	0.14

Table C.1. continued.

Nr.	CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	<i>T</i> eff [K]	Δ <i>T</i> eff [K]	logg [dex]	Δ logg [dex]	<i>M</i> / <i>H</i> [dex]	Δ <i>M</i> / <i>H</i> [dex]
447	102772933	13.0	12.6	0.7	81	17	12	7327	102	3.95	0.24	0.25	0.08
448	102782290	13.7	13.1	0.6	2061	72	57	6471	101	3.71	0.10	0.36	0.14
449	102784531	13.9	13.3	1.9	242	26	17	6922	99	4.17	0.20	0.00	0.08
450	102787430	13.9	13.4	0.4	130	17	8	6637	273	3.89	0.78	-0.15	0.09
451	102792265	12.4	11.9	1.9	129	9	6	6452	100	3.87	0.17	-0.32	0.13
452	102792478	12.1	11.6	1.1	958	11	6	6390	100	3.83	0.18	-0.39	0.13

Appendix D

Catalog of identified δ Scuti stars

Table D.1. Catalog of all 277 identified stars with δ Scuti pulsation from IRa1, LRa1 and LRa2: Corot Identification (CoID), B magnitude, V magnitude, frequency of the dominant mode, amplitude of dominant mode, total number of frequencies, number of combination frequencies and run ID.

Nr.	CoID	B_{mag} [mag]	V_{mag} [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	T_{eff} [K]	ΔT_{eff} [K]	$\log g$ [dex]	M/H [dex]	$\Delta M/H$ [dex]
1	102701904	16.2	15.5	23.5	1317	34	10	7400	150	3.93	0.22	0.37
2	102703234	15.9	15.3	26.1	1295	20	8	7200	150	3.52	0.23	0.41
3	102703484	15.2	14.6	5.6	965	22	12	7400	150	2.93	0.21	0.44
4	102711971	14.7	14.1	11.8	2003	77	51	7459	115	4.08	0.24	0.09
5	102716596	15.3	14.8	39.3	1733	52	25	7200	150	3.53	0.24	0.45
6	102722420	16.0	15.3	7.7	4950	67	43	6800	150	2.97	0.31	0.52
7	102751744	16.8	16.0	16.2	2309	34	16	7000	150	3.76	0.26	0.25
8	102769433	17.2	16.3	21.0	1607	9	1	7000	150	3.74	0.52	0.42
9	102776021	15.9	15.1	9.2	3216	52	31	6600	150	3.29	0.28	1.64
10	102784342	16.4	15.7	24.5	1043	18	11	8000	150	4.27	0.16	0.29
11	102793682	17.0	16.1	9.4	2144	26	7	7600	150	3.79	0.45	1.11
12	102798257	15.2	14.6	23.0	2129	30	10	6351	405	4.17	0.20	0.44
13	102803661	16.9	16.0	27.3	1406	3	1	7800	150	4.29	0.18	0.66
14	102807495	14.7	14.2	29.6	361	26	11	8007	115	4.36	0.30	0.12
15	102809533	16.8	16.0	33.3	899	6	1	7200	150	3.59	0.22	0.40
16	102821366	15.3	14.6	40.7	1352	7	1	7800	150	4.06	0.20	0.81
17	102823192	16.4	15.7	19.3	1364	14	2	7400	150	4.10	0.21	0.41
18	102827900	15.0	14.4	47.9	402	17	3	7537	111	4.37	0.17	0.09
19	102828748	16.0	15.4	37.2	436	12	1	7414	677	4.00	0.58	0.44
20	102837320	15.7	15.0	23.2	3372	35	14	7200	150	3.69	0.19	0.60
21	102838342	16.9	16.0	12.4	1751	9	1	7000	150	3.67	0.24	0.85
22	102838932	16.3	15.5	10.3	2467	29	14	7400	150	3.73	0.30	1.71
23	102839787	15.5	14.8	25.2	487	16	3	7200	150	3.51	0.23	0.43
24	102846647	16.6	15.8	6.3	2941	25	13	8086	962	4.48	0.76	2.04
25	102857958	17.0	15.9	8.9	5707	11	1	7600	150	3.72	0.24	0.50
26	102858204	16.4	15.7	22.4	1370	12	2	7266	954	3.59	0.83	0.50

Table D.1. continued.

Nr.	CoID	Bmag [mag]	Vmag [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
27	102896899	17.0	16.2	14.6	2044	4	1	7200	150	3.73	0.26	0.11	0.45
28	102901722	16.4	15.7	4.1	1643	6	3	8578	981	4.30	0.90	0.00	0.00
29	102929818	16.7	15.8	8.0	23674	20	8	6800	150	4.49	0.22	0.00	0.00
30	102931035	15.7	14.9	18.7	328	21	7	7200	0	3.79	0.21	-0.34	0.08
31	102942265	16.1	15.4	35.6	1765	6	1	8000	150	4.35	0.14	0.77	0.40
32	102943025	16.5	15.8	41.1	405	2	1	7032	1022	3.24	0.99	-0.32	0.46
33	102949846	16.5	15.6	15.8	716	8	2	7400	150	3.35	0.23	-0.27	0.81
34	102951579	16.6	15.9	35.7	661	4	1	7067	1079	4.04	0.30	0.05	0.41
35	102954462	17.2	16.3	22.1	2312	7	1	7400	150	3.72	0.32	0.61	0.45
36	102965953	16.2	15.5	16.1	10157	34	14	7200	150	4.05	0.23	0.52	0.42
37	102702091	15.1	14.3	37.0	274	6	1	6236	279	3.98	0.75	0.27	0.10
38	102706567	15.6	15.0	24.1	1533	21	11	7600	150	3.69	0.17	-0.01	0.54
39	102711885	13.0	12.6	16.5	2896	175	63	7384	101	4.22	0.18	-0.05	0.11
40	102718045	15.5	14.9	15.4	1295	30	10	8000	150	4.00	0.18	0.82	0.37
41	102721716	12.5	12.1	35.5	2659	23	14	7408	100	4.38	0.24	-0.43	0.16
42	102725531	13.0	12.4	9.7	14484	69	49	6607	109	3.14	0.37	0.13	0.07
43	102728240	12.6	12.2	35.4	635	110	65	7457	100	4.44	0.15	-0.10	0.10
44	102739907	14.0	13.5	11.9	916	10	3	6832	99	3.71	0.15	0.30	0.08
45	102745499	13.8	13.3	7.3	1533	53	35	7484	95	3.74	0.33	-0.30	0.14
46	102747052	15.2	14.7	22.4	1434	36	16	7049	102	3.58	0.36	0.11	0.11
47	102755708	15.2	14.6	19.4	2967	77	47	7600	150	3.38	0.23	-0.83	1.20
48	102760430	13.9	13.4	28.4	2161	20	7	7747	116	4.18	0.28	0.21	0.09
49	102761558	14.1	13.5	38.6	435	21	4	7271	100	4.14	0.21	-0.19	0.11
50	102761878	14.3	13.7	15.9	835	18	11	7184	101	3.75	0.25	0.09	0.12
51	102772961	13.8	13.3	30.8	1828	83	59	7134	98	3.81	0.34	0.12	0.11
52	102774248	13.8	13.3	20.4	481	3	1	6766	99	4.17	0.15	0.27	0.06
53	102775416	14.1	13.6	24.5	3668	31	14	7226	118	4.07	0.26	-0.17	0.11
54	102776418	13.8	13.3	8.5	8218	59	46	7762	120	3.72	0.31	-0.05	0.14
55	102776455	15.3	14.7	19.9	2587	81	47	7200	150	3.65	0.20	0.09	0.36
56	102782617	14.6	13.8	11.8	17388	100	73	6988	95	3.44	0.27	0.15	0.10

Table D.1. continued.

Nr.	ColD	B_{mag} [mag]	V_{mag} [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
57	102785246	14.0	13.4	21.9	1727	44	21	7442	98	4.01	0.39	-0.07	0.12
58	102786577	14.6	14.0	18.8	2467	60	34	7200	150	3.89	0.29	0.67	0.39
59	102787451	14.6	13.7	17.4	376	24	7	7307	105	4.36	0.12	0.03	0.10
60	102788248	13.3	12.8	32.1	1328	83	61	6947	99	3.47	0.42	0.29	0.07
61	102790063	13.5	13.1	4.4	586	74	57	7869	97	4.10	0.26	-0.03	0.12
62	102795082	14.6	14.0	34.6	1340	35	17	7476	100	4.01	0.23	0.20	0.08
63	102795091	14.1	13.5	20.8	494	5	1	7612	101	4.03	0.35	-0.08	0.10
64	102803271	13.1	12.8	26.7	219	6	1	8101	212	4.25	0.32	0.19	0.07
65	102803420	14.9	14.2	75.7	97	2	1	6262	100	3.49	0.16	-0.20	0.10
66	102803890	13.1	12.7	25.9	770	93	68	7797	116	4.35	0.27	-0.19	0.12
67	102806461	14.5	14.0	41.1	161	3	1	8076	342	4.32	0.58	0.50	0.09
68	102808143	16.1	15.2	24.7	1308	20	4	7239	675	3.91	0.60	0.28	0.74
69	102809623	13.7	13.3	19.4	2562	72	52	7265	100	3.71	0.44	0.09	0.11
70	102810091	14.0	13.6	44.8	1388	21	5	7707	118	4.33	0.27	-0.01	0.11
71	102810140	13.0	12.6	21.2	1691	69	51	8090	152	3.86	0.26	0.05	0.12
72	102811799	14.3	13.7	36.4	219	4	1	7794	99	4.43	0.12	-0.00	0.09
73	102813103	14.0	13.5	36.6	472	5	1	8403	384	4.20	0.54	0.17	0.09
74	102813260	14.1	13.6	17.6	1722	29	12	8066	99	4.31	0.24	-0.06	0.15
75	102815232	14.3	13.5	16.3	1706	49	32	7000	150	3.72	0.24	-0.63	0.52
76	102815536	16.0	15.0	12.7	7111	34	22	7000	150	3.75	0.29	-0.06	0.99
77	102816758	13.4	12.8	3.6	4970	81	3	7148	116	3.32	0.40	-0.20	0.13
78	102817153	13.5	13.2	17.7	2345	6	1	8241	164	3.83	0.22	0.10	0.13
79	102817337	14.9	14.2	13.5	1966	62	34	6246	383	3.98	0.23	-0.50	0.45
80	102817672	14.5	13.9	12.2	1656	6	1	6814	100	3.47	0.39	0.10	0.09
81	102817900	13.3	12.9	4.8	2199	70	48	7328	114	3.94	0.25	-0.35	0.15
82	102818477	14.4	13.7	19.7	202	5	1	7616	99	4.33	0.17	0.16	0.08
83	102822304	14.4	13.8	18.7	5108	43	24	7166	100	3.58	0.16	-0.13	0.12
84	102825670	12.6	12.2	26.8	333	16	4	6993	100	4.20	0.12	0.11	0.08
85	102829593	14.6	14.0	10.5	3011	34	20	7221	95	3.70	0.27	-0.10	0.12
86	102830551	15.3	14.7	45.6	1854	27	7	7800	150	3.96	0.22	-0.07	0.34

Table D.1. continued.

Nr.	CoID	Bmag [mag]	Vmag [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
87	102833548	13.1	12.5	4.0	2542	100	88	7264	101	3.18	0.36	0.04	0.12
88	102835277	14.9	14.4	12.8	3623	37	19	7319	107	3.84	0.30	-0.01	0.12
89	102836217	15.2	14.5	25.8	1742	12	3	8090	378	4.05	0.21	0.14	0.48
90	102840696	13.3	12.6	14.8	929	50	34	7137	85	3.72	0.24	-0.34	0.52
91	102840943	14.0	13.5	26.6	250	4	1	8001	124	4.11	0.32	0.20	0.09
92	102841538	14.6	14.1	21.6	6168	19	3	7978	131	4.16	0.28	-0.23	0.13
93	102845847	12.8	12.2	20.1	1142	92	73	6930	102	3.55	0.35	0.03	0.08
94	102847269	15.1	14.3	3.7	2812	41	31	7589	312	3.54	0.32	0.53	1.21
95	102848985	13.3	12.7	4.1	1426	44	27	7335	100	2.81	0.22	0.38	0.68
96	102849120	15.0	14.3	17.3	2326	47	28	7635	336	4.19	0.53	0.23	1.88
97	102849750	14.0	13.5	21.2	2561	31	18	7815	171	3.89	0.25	-0.12	0.14
98	102850227	16.1	15.1	18.4	1779	22	7	6029	279	4.04	0.67	0.21	0.11
99	102853957	12.9	12.5	27.6	836	23	6	7610	103	4.38	0.18	0.35	0.09
100	102855041	14.6	13.8	6.3	10621	42	27	6420	217	2.35	0.42	-0.22	1.33
101	102856631	14.2	13.7	14.5	6257	47	24	7265	100	4.36	0.21	-0.23	0.14
102	102860542	15.2	14.6	32.8	883	21	6	7875	359	4.19	0.33	0.54	0.99
103	102861123	14.2	13.7	22.0	145	5	1	8182	236	4.26	0.21	-0.04	0.37
104	102862054	13.2	12.7	12.7	5447	101	80	6921	102	3.63	0.34	-0.09	0.10
105	102864650	15.5	14.8	0.5	1185	12	1	8032	369	4.12	0.68	0.27	0.10
106	102869149	13.7	13.2	16.2	160	7	2	7298	91	4.22	0.24	-0.23	0.12
107	102871920	14.4	13.9	17.7	1289	36	21	7598	101	4.20	0.10	0.19	0.13
108	102874697	15.1	14.6	9.3	1620	16	4	7787	388	3.51	0.32	-0.38	0.37
109	102880818	13.3	12.7	12.6	4922	51	39	7034	100	3.53	0.27	0.19	0.08
110	102882293	15.0	14.5	24.2	1024	17	3	7429	299	3.93	0.31	0.26	0.44
111	102883835	14.9	14.4	23.3	2257	35	22	7197	247	4.06	0.28	0.82	0.64
112	102901677	15.0	14.4	15.5	962	34	12	7538	315	4.19	0.72	0.26	0.14
113	102902532	14.0	13.5	13.8	5486	59	40	7699	318	4.15	0.72	0.31	0.11
114	102905130	13.8	13.2	9.7	7604	36	18	7483	129	3.50	0.23	0.25	0.55
115	102906430	14.1	13.7	20.0	4302	27	12	7478	135	3.64	0.21	0.67	0.41
116	102907985	12.9	12.6	28.5	1046	39	15	8378	154	4.33	0.20	0.00	0.00

Table D.1. continued.

Nr.	CoID	B_{mag} [mag]	V_{mag} [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
117	102909029	16.0	15.3	17.6	2041	8	1	7427	627	3.53	0.59	0.89	0.54
118	102909688	13.5	13.3	3.2	2115	15	7	6839	136	2.99	0.23	-0.55	0.49
119	102910268	12.5	12.2	19.3	3861	112	88	7655	124	4.08	0.36	-0.10	0.13
120	102911074	14.7	14.2	17.8	1795	22	4	7219	101	4.23	0.21	-0.02	0.09
121	102912233	15.4	14.5	6.0	20798	11	4	6595	99	4.31	0.10	0.27	0.12
122	102915408	12.7	12.3	17.1	3953	55	38	8052	398	4.37	0.56	0.49	0.10
123	102918375	13.0	12.6	17.3	2611	81	52	7862	331	4.18	0.74	0.34	0.09
124	102920737	14.3	13.8	15.7	2010	70	52	7195	192	4.02	0.19	0.42	0.34
125	102921797	13.5	12.8	5.5	1300	10	3	8533	444	4.22	0.61	0.05	0.20
126	102921838	15.0	14.5	33.0	2238	34	12	7602	100	4.22	0.19	0.43	0.08
127	102923994	14.4	13.9	8.1	16182	55	38	6306	228	2.18	0.49	-0.30	0.49
128	102924137	14.5	14.0	21.5	1159	32	12	7053	231	3.71	0.37	0.45	0.43
129	102924517	14.5	13.9	6.9	10222	6	1	7980	348	4.39	0.54	0.56	0.14
130	102924774	13.6	13.2	14.6	2682	51	32	7841	333	3.96	0.80	0.18	0.08
131	102936622	14.2	13.7	1.5	653	23	7	6509	115	2.31	0.42	-0.27	0.13
132	102936624	13.9	13.3	7.2	1682	19	8	8174	437	4.33	0.56	-0.05	0.25
133	102938065	14.6	14.1	31.5	797	32	12	7400	150	4.05	0.25	0.48	0.52
134	102939043	14.5	14.0	26.4	701	15	2	8472	547	4.16	0.17	0.55	0.34
135	102939392	12.9	12.3	11.9	8440	43	28	7045	99	3.52	0.27	0.03	0.09
136	102939530	14.3	13.9	11.2	1006	25	12	7075	197	3.63	0.17	0.22	0.31
137	102940512	15.5	15.0	19.5	1637	25	8	7000	150	3.86	0.28	0.83	0.26
138	102945050	13.8	13.4	20.7	5094	44	30	7289	97	3.78	0.20	0.13	0.09
139	102945829	13.7	13.2	27.8	683	34	11	7493	95	4.16	0.24	0.30	0.08
140	102945921	12.6	12.2	23.9	7312	82	61	7589	99	4.40	0.16	0.05	0.09
141	102946199	13.9	13.4	13.4	2370	7	1	7115	121	3.85	0.46	-0.15	0.12
142	102953811	14.1	13.7	10.5	1206	20	7	8400	150	4.13	0.19	0.00	0.00
143	102954255	14.6	14.2	3.8	1750	4	1	8045	334	4.21	0.24	-0.20	0.72
144	102956146	13.6	13.1	7.6	3094	100	6	6930	99	3.27	0.29	0.39	0.10
145	102968776	14.7	14.1	24.4	942	17	3	7600	150	3.92	0.19	0.80	0.47
146	102971745	14.6	14.0	22.3	371	5	1	6523	271	2.70	0.47	0.35	0.64

Table D.1. continued.

Nr.	CoID	Bmag [mag]	Vmag [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
147	102975191	13.8	13.3	25.8	1475	34	14	6929	107	3.46	0.28	0.24	0.08
148	102983355	14.4	14.0	18.3	7688	51	30	7229	101	4.26	0.22	0.10	0.12
149	102926992	12.8	12.5	6.0	649	87	68	7960	141	4.01	0.27	-0.11	0.15
150	102790482	14.0	13.4	13.2	1074	75	47	7137	115	3.91	0.26	0.24	0.09
151	102868305	14.4	13.9	27.1	289	9	3	7694	136	4.12	0.27	-0.09	0.11
152	110657320	12.5	12.1	22.7	919	49	21	7008	100	3.56	0.24	0.32	0.07
153	110659839	13.9	13.5	17.9	366	26	12	8284	127	3.82	0.19	-0.21	0.16
154	110661672	13.1	12.7	15.6	6559	15	5	6915	98	3.63	0.35	-0.06	0.11
155	110662098	14.3	13.8	23.7	4266	64	31	7510	116	4.17	0.38	-0.18	0.14
156	110662355	13.5	13.1	20.9	1352	30	6	7322	122	3.70	0.26	0.20	0.07
157	110663140	13.8	13.4	13.5	2296	69	40	7819	118	4.17	0.22	-0.22	0.14
158	110663155	14.2	13.7	18.1	992	50	25	7206	116	4.22	0.20	0.19	0.09
159	110663736	14.7	14.5	7.7	1161	101	78	6698	99	3.24	0.39	-0.21	0.12
160	110664642	14.6	14.1	18.9	1054	53	25	7643	103	4.42	0.22	-0.19	0.11
161	110665049	12.6	12.2	33.3	754	107	70	7770	95	4.39	0.29	-0.10	0.10
162	110666440	14.3	13.7	15.3	285	33	10	7387	98	4.11	0.24	0.04	0.09
163	110666938	NaN	11.9	11.1	15743	110	87	6550	98	2.99	0.25	0.03	0.10
164	110667228	14.6	14.0	26.4	1132	15	2	6963	96	3.88	0.22	0.00	0.09
165	110670408	14.6	14.1	20.6	994	64	36	7275	96	3.90	0.19	0.29	0.09
166	110673792	13.0	12.7	47.7	2133	21	1	8016	100	4.27	0.33	0.13	0.07
167	110675866	14.6	13.9	13.3	3318	5	1	7545	118	3.76	0.27	0.18	0.08
168	110678400	13.3	12.9	33.7	372	85	52	7597	102	4.17	0.13	0.10	0.10
169	110683112	13.8	13.2	0.7	2269	116	89	6240	99	2.79	0.23	-0.23	0.17
170	110683196	13.1	12.7	34.9	1755	4	1	8037	93	4.27	0.28	-0.09	0.11
171	110687034	14.2	13.7	3.0	3040	72	58	6682	100	3.39	0.10	-0.83	0.13
172	110688366	13.4	12.9	31.4	1594	60	30	7567	123	4.00	0.36	0.21	0.07
173	110742489	14.5	14.0	40.4	1399	44	18	7187	103	4.23	0.24	-0.03	0.10
174	110742497	13.4	13.0	9.1	2143	13	4	7643	128	4.37	0.28	-0.26	0.14
175	110742701	13.4	13.0	21.4	1258	79	45	7652	100	3.92	0.28	-0.09	0.10
176	110744295	14.9	14.3	31.7	1092	29	7	8098	147	4.31	0.32	0.11	0.10

Table D.1. continued.

Nr.	CoID	B_{mag} [mag]	V_{mag} [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
177	110744836	14.0	13.5	15.6	1425	65	41	8080	182	4.30	0.47	0.15	0.11
178	110745804	12.4	12.3	23.6	795	96	64	8287	107	4.22	0.22	-0.01	0.10
179	110746014	14.0	13.5	22.4	2344	102	74	7281	100	4.35	0.15	-0.72	0.17
180	110748538	14.0	13.5	22.2	731	23	13	7170	99	4.16	0.35	-0.09	0.09
181	110750724	14.2	13.6	11.4	4453	72	43	6947	109	3.58	0.27	0.42	0.07
182	110752883	13.3	12.8	8.2	2347	108	83	7441	103	4.41	0.28	-0.02	0.10
183	110753325	14.1	13.6	18.2	2819	88	57	6883	100	3.52	0.19	-0.72	0.16
184	110756196	12.8	12.5	33.1	1918	99	64	7922	107	4.39	0.10	-0.20	0.14
185	110761205	13.8	13.3	19.8	1952	77	12	6955	99	3.59	0.27	0.09	0.09
186	110765270	14.1	13.5	9.2	7251	88	59	6720	102	3.42	0.19	0.30	0.07
187	110765777	14.5	14.1	15.1	955	19	4	7807	99	4.38	0.24	0.13	0.08
188	110767392	14.3	13.9	19.1	1841	53	21	7791	121	4.35	0.28	-0.00	0.10
189	110767524	13.5	13.1	5.5	1332	76	59	6872	101	3.45	0.39	-0.06	0.12
190	110768248	13.5	13.1	32.4	5136	82	50	8644	294	5.05	0.66	0.24	0.09
191	110772868	13.6	13.2	14.3	1733	73	48	7745	100	4.05	0.27	0.05	0.14
192	110825529	16.0	15.4	32.6	5468	27	6	7595	100	4.10	0.25	0.54	0.10
193	110827777	14.5	14.1	19.6	1369	73	46	7928	126	4.39	0.26	0.10	0.09
194	110831848	15.6	14.9	8.4	2134	30	10	8048	102	4.21	0.30	0.29	0.11
195	110831901	14.3	13.8	24.0	2083	49	22	7477	116	4.05	0.20	-0.12	0.14
196	110832718	14.3	13.9	32.8	1510	34	10	7442	100	4.38	0.10	-0.31	0.13
197	110833266	14.2	13.8	21.2	1422	50	23	8167	126	4.28	0.28	-0.23	0.14
198	110836756	NaN	12.4	14.7	1477	118	87	8024	1979	3.35	1.10	0.00	0.00
199	110837237	12.9	12.5	17.8	3725	32	5	7462	101	4.29	0.16	-0.22	0.13
200	110837705	13.5	13.1	28.8	5723	24	13	7204	99	4.06	0.29	-0.18	0.10
201	110838156	13.1	12.7	50.9	2927	29	5	7813	110	4.33	0.45	-0.01	0.09
202	110839592	15.5	14.8	11.3	1525	51	24	6185	99	3.77	0.15	-0.39	0.12
203	110839966	14.1	13.6	35.3	1598	34	17	7636	102	3.84	0.30	-0.17	0.12
204	110840526	14.5	14.1	56.5	1733	24	6	8130	100	4.38	0.24	-0.24	0.15
205	110840570	14.9	14.4	20.3	3006	33	11	7236	95	3.87	0.25	0.09	0.10
206	110840918	13.4	12.9	27.3	1384	30	13	6938	98	4.21	0.17	-0.06	0.10

Table D.1. continued.

Nr.	CoID	Bmag [mag]	Vmag [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
207	110843160	15.8	15.0	8.4	7718	52	31	6989	100	4.02	0.14	-0.40	0.14
208	110843195	12.6	12.2	22.6	168	4	1	8200	113	3.62	0.16	0.34	0.08
209	110843480	13.8	13.4	39.0	879	41	12	7511	97	4.36	0.21	0.20	0.06
210	110843647	14.9	14.4	16.3	4252	41	26	7383	92	4.01	0.24	-0.22	0.16
211	110845645	12.7	12.4	31.5	1133	30	9	7260	100	3.97	0.24	-0.09	0.12
212	110846028	12.8	12.3	8.2	14555	80	55	7261	97	4.08	0.24	-0.00	0.10
213	110853149	14.6	14.0	6.3	3574	91	74	7207	110	3.64	0.26	-0.01	0.10
214	110853760	13.2	12.8	24.4	10461	49	26	7741	114	4.27	0.29	-0.10	0.11
215	102791134	14.6	13.9	5.9	4782	82	60	7229	97	4.21	0.34	0.02	0.08
216	102735380	14.3	13.8	17.6	1928	68	36	8088	160	2.84	0.15	0.54	0.13
217	102704116	14.2	13.8	20.7	957	79	51	7642	99	4.30	0.15	0.00	0.10
218	102642516	14.4	13.9	22.2	5085	21	5	7600	1650	3.75	1.09	0.61	0.08
219	102694610	14.3	13.7	7.3	3243	80	54	7869	101	4.24	0.20	-0.33	0.14
220	102675585	14.6	14.3	5.1	1062	6	3	8953	366	3.97	0.41	0.77	0.16
221	102563681	12.5	12.2	1.8	795	27	14	7587	118	4.39	0.10	-0.43	0.15
222	102575808	12.7	12.1	15.1	1734	79	53	7157	98	3.73	0.26	0.12	0.09
223	102580193	12.6	12.2	33.7	982	19	6	7274	102	4.02	0.22	-0.18	0.11
224	102581527	13.8	13.4	7.7	1765	112	84	7003	100	4.08	0.15	-0.26	0.16
225	102587545	14.0	13.2	1.8	639	63	51	6130	99	2.67	0.32	0.58	0.12
226	102589566	13.3	12.9	6.0	1026	106	81	7397	99	3.83	0.43	-0.24	0.13
227	102596121	13.8	13.4	44.5	1886	12	3	7642	99	4.20	0.17	-0.00	0.10
228	102598868	13.5	13.1	26.0	1413	26	1	7797	111	3.85	0.30	0.09	0.08
229	102599598	14.6	14.0	19.4	1456	63	37	7500	126	4.29	0.28	-0.01	0.11
230	102603176	13.3	12.7	10.4	6067	89	66	7457	99	3.82	0.24	-0.21	0.16
231	102608609	14.2	13.4	7.4	1467	8	1	6519	100	3.37	0.23	0.09	0.09
232	102627276	13.6	13.2	32.9	2782	22	13	7913	100	4.62	0.15	-0.58	0.22
233	102634888	14.6	14.0	12.2	1907	93	65	6946	100	3.59	0.27	-0.09	0.11
234	102636829	14.3	13.6	10.3	4642	48	28	6825	98	3.24	0.16	-0.22	0.10
235	102637079	13.9	13.3	13.8	1517	101	66	7469	99	3.50	0.21	0.28	0.08
236	102639464	11.6	11.3	20.2	323	18	9	7878	99	3.86	0.36	-0.48	0.26

Table D.1. continued.

Nr.	CoID	B_{mag} [mag]	V_{mag} [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
237	102639650	14.7	14.1	30.2	2298	42	13	7340	113	3.74	0.38	0.40	0.10
238	102645086	12.6	12.1	4.6	573	11	1	7740	104	3.53	0.20	-0.17	0.10
239	102646094	13.8	13.3	9.0	2156	11	3	6792	101	3.52	0.23	-0.13	0.12
240	102647323	13.3	12.9	49.5	1230	24	11	7805	98	4.34	0.43	-0.22	0.11
241	102650434	14.3	13.7	7.3	11511	101	72	7270	99	4.13	0.19	-0.15	0.18
242	102651129	12.3	12.0	25.2	265	19	6	7568	99	4.17	0.11	-0.72	0.18
243	102655654	14.8	14.3	17.8	1363	36	20	7046	99	3.75	0.26	-0.00	0.12
244	102657423	13.3	12.9	11.7	4548	80	62	7060	98	4.17	0.18	-0.47	0.13
245	102661211	13.9	13.3	7.8	3519	75	50	7014	99	3.79	0.27	0.13	0.09
246	102665884	14.1	13.5	10.5	2386	95	74	6884	100	4.37	0.12	-0.18	0.12
247	102669191	13.4	12.8	9.9	1805	93	67	7360	104	3.67	0.24	-0.09	0.11
248	102669422	13.8	13.3	27.9	967	46	12	7252	98	3.91	0.25	0.23	0.09
249	102669994	14.6	14.1	9.0	2938	94	62	7537	103	4.19	0.25	0.21	0.13
250	102673795	13.0	12.6	17.4	696	16	4	8067	234	3.87	0.37	-0.09	0.10
251	102673929	12.7	12.2	15.5	2704	107	70	6953	100	3.78	0.11	0.03	0.10
252	102675756	15.0	14.3	14.6	3170	77	61	7312	100	3.31	0.30	0.14	0.09
253	102678628	12.9	12.3	9.7	817	25	7	7077	100	3.43	0.16	0.10	0.08
254	102687709	13.6	13.2	53.7	3277	19	4	7657	99	4.37	0.13	-0.47	0.15
255	102688156	14.1	13.6	21.8	2306	28	14	7514	99	4.47	0.15	-0.10	0.10
256	102688713	15.2	14.4	25.3	1338	52	22	7444	100	4.46	0.13	0.10	0.10
257	102689185	13.3	12.8	0.8	137	24	15	6563	99	2.47	0.11	-0.81	0.11
258	102690176	14.7	14.1	12.5	8523	68	42	7350	97	3.90	0.26	0.08	0.14
259	102691322	13.8	13.2	58.1	1089	22	4	7669	142	4.06	0.21	-0.04	0.11
260	102702932	14.5	13.8	15.8	2744	83	48	6814	98	2.98	0.28	0.03	0.08
261	102703251	12.5	12.2	10.2	743	17	8	7810	100	3.26	0.10	0.39	0.12
262	102704304	14.6	14.0	7.9	9450	104	78	6993	99	3.34	0.32	0.23	0.14
263	102706800	14.5	14.0	9.6	3107	79	37	7007	100	3.21	0.28	0.59	0.10
264	102710813	14.9	14.4	11.4	610	39	18	7822	94	4.25	0.23	0.26	0.11
265	102712421	13.3	12.9	21.7	874	29	6	6891	100	3.58	0.24	-0.22	0.12
266	102715311	11.7	11.4	5.1	1051	22	14	7486	99	4.30	0.24	-0.57	0.18

Table D.1. continued.

Nr.	CoID	Bmag [mag]	Vmag [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
267	102723128	12.6	12.1	22.1	552	33	17	6738	92	3.45	0.23	-0.03	0.11
268	102723572	12.5	12.1	10.4	5229	122	93	6741	99	4.14	0.33	-0.67	0.18
269	102724195	14.1	13.7	34.9	1187	33	12	7775	100	4.24	0.10	0.45	0.09
270	102729694	12.5	11.9	8.4	5254	146	119	6800	100	3.44	0.22	0.10	0.09
271	102733521	12.4	12.0	15.3	1930	41	28	7017	105	3.87	0.29	-0.18	0.12
272	102742700	13.8	13.3	24.5	7719	30	14	7423	100	3.96	0.10	0.71	0.12
273	102753236	NaN	11.7	14.8	3644	182	147	7243	99	4.13	0.35	-0.64	0.18
274	102773976	14.3	13.8	32.2	109	14	5	7551	90	3.91	0.30	-0.10	0.19
275	102775243	12.3	12.1	40.8	2292	19	8	7513	100	4.36	0.26	-0.52	0.18
276	102775698	11.7	11.4	15.2	1233	154	123	7525	100	4.33	0.22	-0.65	0.20
277	102786753	13.6	13.0	8.9	7803	110	75	7167	100	3.60	0.10	-0.01	0.14

Appendix E

Catalog of identified Hybrid stars

Table E.1. Catalog of all 274 identified stars with Hybrid pulsation from IRa1, LRa1 and LRa2: Corot Identification (CoID), B magnitude, V magnitude, frequency of the dominant mode, amplitude of dominant mode, total number of frequencies, number of combination frequencies and run ID.

Nr.	CoID	B_{mag} [mag]	V_{mag} [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	T_{eff} [K]	ΔT_{eff} [K]	$\log g$ [dex]	M/H [dex]	$\Delta M/H$ [dex]
1	102706046	15.8	15.2	22.5	1135	54	30	7400	150	3.65	0.23	0.49
2	102709943	15.2	14.7	15.5	3084	59	35	7600	150	3.49	0.19	0.29
3	102712965	16.1	15.4	14.4	1226	30	14	7400	150	3.36	0.21	0.44
4	102716010	16.6	16.0	35.1	935	13	2	7800	150	3.95	0.20	0.48
5	102725007	16.8	16.0	6.5	696	3	1	7400	150	3.25	0.23	0.48
6	102726673	15.6	14.9	20.7	1770	39	13	7200	150	3.76	0.25	0.35
7	102752510	16.5	15.8	35.1	1000	17	8	7600	150	4.11	0.30	1.01
8	102782419	17.0	16.2	16.2	768	15	3	7400	150	4.00	0.25	0.83
9	102784258	15.0	14.3	12.2	374	25	7	6837	332	2.44	0.56	0.51
10	102800592	16.5	15.6	1.6	570	17	8	7842	933	3.69	0.81	1.04
11	102837646	15.4	14.8	4.4	1101	32	18	6599	402	3.92	0.19	0.35
12	102856194	15.7	15.2	4.3	565	25	10	8268	0	4.47	0.00	0.00
13	102884649	14.4	13.7	2.3	266	9	4	6110	224	3.32	0.34	0.59
14	10288571	16.1	15.3	22.9	357	5	1	7264	719	3.38	0.69	0.67
15	102891688	15.7	15.0	10.8	339	5	1	7093	568	3.65	0.73	1.64
16	102705788	12.7	12.2	22.2	823	40	27	7328	100	4.42	0.16	0.19
17	102707493	15.2	14.6	15.7	988	39	21	7400	150	3.45	0.22	0.37
18	102709431	14.2	13.6	9.0	1100	17	6	7526	97	3.55	0.16	0.12
19	102717566	13.2	12.7	3.3	249	108	89	7658	99	4.39	0.11	0.17
20	102720462	13.6	13.2	24.7	4039	55	33	7627	100	4.07	0.17	0.12
21	102721808	13.6	13.1	14.5	592	62	32	7812	94	4.54	0.32	0.10
22	102723199	14.3	13.3	10.1	260	27	10	6278	100	3.91	0.14	0.10
23	102728281	14.6	14.0	21.7	1202	29	11	6747	100	3.57	0.34	0.15
24	102729531	12.8	12.4	4.0	1036	107	83	7796	99	4.32	0.27	0.13
25	102731107	13.7	13.1	1.7	4515	133	112	7775	117	3.76	0.33	0.13
26	102735992	14.5	13.8	26.9	519	52	37	7251	101	4.20	0.30	0.08

Table E.1. continued.

Nr.	CoID	Bmag [mag]	Vmag [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
27	102738456	13.1	12.6	2.5	646	64	51	7501	299	4.17	0.76	0.29	0.10
28	102739575	14.9	14.4	33.9	597	31	8	8121	100	4.20	0.12	0.50	0.12
29	102740052	13.0	12.6	28.0	841	104	77	7783	101	3.99	0.19	0.31	0.09
30	102748934	15.3	14.7	6.4	372	15	8	7400	150	3.77	0.22	-0.66	0.27
31	102752241	15.0	14.5	28.2	1621	45	14	6890	100	3.72	0.23	0.25	0.08
32	102752810	14.7	14.2	19.5	985	15	3	7084	97	3.95	0.18	-0.15	0.10
33	102755069	14.0	13.5	19.4	682	8	3	7671	100	4.31	0.15	-0.18	0.12
34	102756828	13.5	13.0	12.1	4493	73	36	7542	118	3.78	0.48	-0.12	0.12
35	102757453	14.9	14.2	1.9	585	30	22	6342	100	3.36	0.13	-0.03	0.10
36	102757940	14.3	13.7	19.9	3875	24	4	6776	99	3.53	0.28	0.13	0.08
37	102758436	13.9	13.4	4.7	1102	30	15	7148	100	4.04	0.20	0.06	0.14
38	102759370	13.6	13.1	51.2	1109	31	14	7599	99	4.60	0.14	-0.42	0.17
39	102762869	14.9	14.2	16.2	344	24	15	6598	100	3.58	0.21	-0.28	0.13
40	102763839	14.9	14.1	7.5	1065	31	20	6424	100	3.57	0.20	-0.33	0.10
41	102764403	12.8	12.2	0.9	1656	39	25	7139	101	4.14	0.17	-0.00	0.10
42	102764745	14.4	13.8	1.5	223	6	2	7107	151	3.05	0.69	0.00	0.00
43	102765512	15.0	14.5	11.3	980	40	17	8200	150	3.77	0.20	-0.11	0.56
44	102766017	13.0	12.5	3.8	417	48	36	7071	899	3.60	0.99	0.50	0.09
45	102777329	14.6	14.0	0.6	248	4	1	6715	99	3.35	0.14	0.42	0.10
46	102779542	15.1	14.5	15.8	1187	65	43	7202	120	3.52	0.25	0.41	0.19
47	102780229	15.6	14.9	11.6	318	34	17	8081	970	4.00	0.39	-0.27	0.66
48	102792502	14.0	13.3	6.5	498	29	14	6743	98	3.58	0.22	-0.07	0.10
49	102796094	13.2	12.7	0.7	789	70	43	7334	100	3.80	0.21	-0.22	0.14
50	102796616	14.3	13.7	2.1	5941	18	7	7427	100	4.18	0.17	-0.17	0.11
51	102797109	14.7	14.1	6.5	549	27	17	7519	277	3.96	0.32	0.40	0.49
52	102799277	14.0	13.3	9.1	162	19	4	8453	193	3.90	0.21	0.00	0.00
53	102800829	12.5	12.3	2.3	63	3	1	8575	177	4.12	0.21	0.01	0.10
54	102803588	14.4	13.8	20.0	4912	43	27	7065	92	3.55	0.25	0.30	0.10
55	102804522	13.8	13.3	15.3	3660	109	92	7038	101	4.01	0.21	-0.24	0.13
56	102806336	13.7	13.1	21.0	629	7	1	7431	99	4.39	0.25	0.00	0.11

Table E.1. continued.

Nr.	CoID	B_{mag} [mag]	V_{mag} [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
57	102807108	14.0	13.4	0.4	1768	81	44	7743	319	4.16	0.73	0.31	0.12
58	102816100	14.0	13.5	14.4	196	8	1	7781	99	4.16	0.29	-0.03	0.09
59	102822261	14.4	13.9	45.8	389	8	2	8145	309	4.07	0.32	0.16	0.39
60	102824306	13.5	13.1	2.5	109	7	1	8183	215	3.82	0.23	-0.42	0.18
61	102827006	14.1	13.6	12.2	104	2	1	7481	158	3.42	0.25	0.20	0.07
62	102828078	13.8	13.3	1.4	74	3	1	8339	288	4.00	0.24	-0.22	0.15
63	102839037	15.4	14.6	2.7	522	11	5	7429	377	3.26	0.40	-0.42	0.26
64	102842404	13.3	12.9	22.6	1631	71	42	7142	99	4.10	0.22	-0.14	0.10
65	102848506	13.7	13.2	0.8	4135	74	15	8253	155	4.42	0.15	0.64	0.41
66	102849761	13.0	12.6	17.4	824	56	39	8163	207	4.00	0.23	0.20	0.09
67	102850502	13.7	13.1	5.0	9883	89	75	7098	116	3.59	0.33	0.03	0.13
68	102855047	15.0	14.3	0.7	166	5	2	6429	307	2.99	0.52	0.17	0.95
69	102858363	13.9	13.2	11.8	159	16	6	8137	222	3.77	0.19	0.66	0.42
70	102860502	13.6	13.1	17.8	54	5	1	7666	124	3.66	0.19	0.78	0.41
71	102861067	13.5	13.0	4.3	336	43	32	6945	111	3.91	0.32	-0.06	0.11
72	102862454	15.3	14.8	4.2	835	16	7	8233	614	4.19	0.27	0.03	0.43
73	102864265	13.8	13.3	15.1	492	11	1	7686	98	4.14	0.27	-0.02	0.10
74	102873982	15.3	14.7	13.3	771	6	1	7272	303	4.16	0.30	0.70	0.32
75	102880525	13.1	12.7	43.4	562	26	9	8168	145	4.39	0.31	0.01	0.10
76	102892874	13.7	13.1	2.4	1794	69	18	6654	99	3.63	0.20	-0.11	0.10
77	102896317	15.0	14.4	20.8	1349	9	2	7200	150	3.93	0.25	0.05	0.53
78	102899562	14.8	14.2	1.4	553	6	1	6607	99	3.46	0.22	-0.04	0.10
79	102899709	13.6	13.0	11.7	168	8	4	6996	289	3.70	0.89	0.11	0.10
80	102908515	12.6	12.4	49.9	454	21	7	8104	98	4.27	0.27	-0.10	0.13
81	102913781	14.3	13.7	8.3	437	15	6	8558	239	3.77	0.23	0.00	0.00
82	102920385	14.8	14.3	28.1	673	10	1	8378	603	4.34	0.18	0.00	0.00
83	102927490	12.6	12.2	12.6	564	57	45	7676	99	4.34	0.16	-0.20	0.15
84	102934041	13.6	13.2	2.3	992	67	56	8341	424	3.94	0.72	0.11	0.12
85	102943292	14.1	12.8	0.4	257	39	32	8390	4453	3.35	1.10	0.76	0.17
86	102952329	14.9	14.4	17.6	1036	30	16	7731	138	4.20	0.34	0.37	0.10

Table E.1. continued.

Nr.	CoID	Bmag [mag]	Vmag [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
87	102955730	13.2	12.7	2.1	1719	73	56	7273	101	4.32	0.23	-0.02	0.11
88	102958007	15.5	14.9	17.4	520	7	1	7808	454	3.91	0.19	-0.12	0.37
89	102958217	14.7	14.2	13.9	694	16	7	6977	98	3.87	0.22	-0.03	0.09
90	102958273	14.0	13.5	20.6	1321	60	37	7800	150	4.03	0.22	0.28	0.43
91	102960817	14.8	14.3	36.2	309	10	2	7533	269	3.87	0.31	0.34	0.55
92	102967281	13.5	12.9	10.8	3127	111	95	6865	103	3.59	0.25	0.10	0.10
93	102960515	12.8	12.3	6.2	116	20	13	6134	99	3.58	0.17	-0.42	0.13
94	102765029	12.4	11.6	1.4	1415	98	80	6392	100	2.72	0.20	-0.18	0.10
95	102839232	13.8	13.3	1.6	83	6	2	7626	303	4.01	0.86	0.19	0.07
96	102902592	14.8	14.4	2.6	403	33	3	8232	96	4.27	0.27	0.12	0.11
97	102873405	NaN	11.5	21.0	441	47	23	7513	100	4.26	0.16	0.04	0.10
98	102873289	12.3	12.0	18.6	690	85	59	7692	115	4.23	0.29	0.22	0.09
99	102989030	13.6	13.3	6.0	165	24	10	7888	100	4.23	0.38	-0.01	0.12
100	103017145	14.6	14.2	1.6	1652	108	91	6801	90	3.41	0.26	-0.05	0.11
101	103039964	14.3	13.8	9.8	676	60	32	6516	100	4.21	0.11	-0.28	0.12
102	110655178	16.2	15.2	10.7	1217	46	28	7349	98	3.98	0.24	0.19	0.07
103	110655985	14.9	14.4	5.4	3302	97	51	7786	130	3.74	0.28	0.22	0.11
104	110656204	15.0	14.4	13.1	970	57	36	7955	105	4.05	0.23	0.15	0.10
105	110656410	13.4	13.1	50.8	481	31	20	8176	123	4.03	0.24	0.48	0.09
106	110656998	14.7	14.4	40.2	671	18	11	8250	181	4.44	0.27	0.09	0.09
107	110657676	14.0	13.6	0.5	144	19	12	8334	188	4.33	0.23	0.12	0.08
108	110658805	14.5	14.1	3.3	2187	33	20	7133	107	3.94	0.25	-0.16	0.12
109	110658886	13.3	13.0	1.3	353	18	10	8359	163	3.87	0.21	0.20	0.10
110	110659284	13.1	12.7	22.2	597	59	33	8030	100	4.71	0.11	-0.60	0.18
111	110659317	14.9	14.4	0.7	2225	117	96	7086	97	3.86	0.30	-0.44	0.18
112	110660141	14.9	14.4	23.4	1490	64	41	7217	95	3.89	0.25	0.01	0.10
113	110660305	14.8	14.3	0.7	145	17	8	6767	101	3.99	0.19	-0.21	0.11
114	110660988	12.6	12.1	37.7	344	75	48	7961	115	4.20	0.29	0.10	0.10
115	110661137	14.3	13.8	13.5	940	23	14	6659	103	3.58	0.19	0.05	0.10
116	110661171	13.6	13.2	60.0	357	21	9	8408	117	4.40	0.23	-0.01	0.13

Table E.1. continued.

Nr.	CoID	B_{mag} [mag]	V_{mag} [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
117	110662796	15.4	14.5	5.8	782	20	14	6626	100	3.00	0.25	0.09	0.10
118	110662804	14.1	13.6	1.4	5938	112	88	6994	2401	3.33	1.08	0.76	0.17
119	110663603	NaN	12.4	3.2	126	25	12	8135	99	3.43	0.10	-0.06	0.18
120	110663839	15.0	14.2	3.5	831	69	52	7454	112	3.81	0.27	0.10	0.09
121	110664643	14.9	14.2	0.8	2213	99	67	6840	99	3.28	0.28	0.30	0.08
122	110664655	14.8	14.3	2.8	917	46	34	7011	98	3.71	0.26	-0.15	0.11
123	110664801	13.9	13.4	35.3	576	43	19	7785	1681	3.83	1.08	0.23	0.09
124	110666282	14.2	13.7	15.3	3557	112	89	6951	101	4.09	0.20	-0.27	0.12
125	110666529	14.4	13.8	17.2	677	39	15	6853	99	3.84	0.18	0.10	0.08
126	110666660	14.3	13.9	26.1	416	16	6	8054	158	3.26	0.21	-0.15	0.10
127	110666889	14.1	13.7	2.9	3407	68	43	7088	100	3.53	0.25	0.14	0.09
128	110666980	15.8	15.1	23.6	604	24	12	7284	116	3.94	0.31	0.20	0.07
129	110667819	14.5	14.0	26.4	726	48	29	7148	102	4.16	0.23	-0.10	0.10
130	110668404	14.8	14.2	3.8	1584	78	59	6537	99	3.63	0.21	-0.29	0.11
131	110669369	14.8	14.2	29.0	189	9	3	7135	97	4.24	0.25	-0.01	0.11
132	110670820	16.1	15.5	1.5	441	13	4	6490	127	2.86	0.27	0.00	0.00
133	110673225	14.5	14.1	2.4	458	32	16	8038	93	4.40	0.30	0.22	0.08
134	110674250	14.5	14.0	20.8	751	40	13	7353	99	4.33	0.18	0.04	0.11
135	110675582	15.1	14.5	6.2	326	45	30	6443	100	3.61	0.20	-0.07	0.10
136	110675609	12.9	12.5	31.8	957	91	62	7205	105	4.04	0.35	-0.00	0.10
137	110676806	14.0	13.5	53.3	1085	47	17	7647	112	4.18	0.27	0.12	0.10
138	110676978	12.5	12.1	0.5	64	23	17	6304	101	3.20	0.23	-0.30	0.13
139	110677609	13.7	13.4	0.4	63	6	2	8488	96	4.13	0.10	0.07	0.11
140	110680143	14.1	13.5	0.8	1507	74	55	7228	100	4.31	0.18	0.26	0.11
141	110682315	12.5	12.1	3.1	433	31	17	7599	95	4.38	0.45	-0.09	0.09
142	110683371	12.8	12.2	0.6	64	23	14	6352	101	2.63	0.30	0.11	0.08
143	110684461	12.3	12.0	44.5	476	88	61	7626	112	4.35	0.22	-0.10	0.10
144	110684641	17.0	15.5	2.1	1619	86	53	6108	100	2.73	0.11	0.03	0.09
145	110685430	14.9	14.2	22.5	229	9	1	6210	100	3.76	0.13	0.35	0.09
146	110740838	11.9	11.7	31.8	12061	61	20	8044	90	4.11	0.29	-0.11	0.11

Table E.1. continued.

Nr.	CoID	Bmag [mag]	Vmag [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
147	110740873	12.6	12.2	35.6	88	24	8	8294	226	4.11	0.17	0.09	0.10
148	110742049	13.3	12.8	16.2	415	9	1	7405	120	3.61	0.27	0.49	0.10
149	110743814	13.4	13.1	23.7	115	35	11	8022	115	4.04	0.21	-0.16	0.15
150	110745808	14.3	13.9	0.8	165	27	18	8001	117	4.42	0.24	-0.14	0.10
151	110746977	14.4	13.9	36.7	856	36	18	7569	101	4.24	0.21	0.12	0.10
152	110748048	16.2	15.4	30.0	1160	27	7	7150	216	3.32	0.19	0.18	0.10
153	110748467	14.7	14.0	12.9	325	26	16	6135	100	3.58	0.15	-0.20	0.10
154	110748742	13.1	12.6	9.5	145	16	7	6315	100	3.68	0.19	-0.42	0.14
155	110750670	14.6	14.1	36.8	582	37	17	7313	108	4.19	0.29	0.10	0.08
156	110753534	12.0	11.4	1.4	64	47	36	6385	100	2.92	0.30	0.09	0.09
157	110754009	13.7	13.2	16.4	603	39	16	6991	98	3.70	0.34	-0.11	0.13
158	110754918	14.2	13.7	23.6	1215	72	40	7335	100	4.16	0.25	-0.04	0.12
159	110755412	12.6	12.2	12.9	1247	57	36	7833	130	3.86	0.30	-0.00	0.11
160	110757117	14.4	13.9	18.6	1183	55	31	6912	101	3.95	0.14	-0.01	0.09
161	110758631	14.2	13.6	2.1	3051	74	17	6841	100	3.38	0.23	0.00	0.11
162	110758766	NaN	12.0	6.9	414	73	53	7889	94	4.36	0.29	-0.01	0.10
163	110760389	13.3	12.9	1.9	888	63	41	7653	112	4.19	0.27	0.07	0.09
164	110760888	15.0	14.4	2.8	2134	53	28	7116	328	3.71	0.88	0.50	0.09
165	110761308	12.9	12.4	22.6	663	47	22	7084	100	4.32	0.16	-0.17	0.13
166	110761358	14.0	13.5	22.8	149	11	2	6746	99	3.29	0.26	-0.30	0.12
167	110762382	15.1	14.6	44.8	751	27	11	7674	123	3.98	0.26	0.45	0.07
168	110763037	14.3	13.8	15.6	1420	81	56	7586	100	3.92	0.28	-0.19	0.12
169	110764153	13.2	12.6	1.8	108	11	5	6675	99	3.25	0.14	0.00	0.09
170	110764813	14.3	13.5	9.0	113	9	5	7787	149	2.83	0.16	0.09	0.10
171	110766405	14.0	13.7	39.5	100	9	4	8437	173	4.34	0.15	0.21	0.11
172	110766502	14.0	13.5	19.4	196	19	10	7680	121	4.39	0.23	0.06	0.10
173	110767241	14.8	14.4	25.3	465	15	3	7442	115	4.14	0.30	0.20	0.07
174	110769455	13.1	12.7	24.6	1159	82	47	7334	101	4.14	0.30	-0.10	0.10
175	110770346	13.0	12.7	8.9	679	24	10	8409	100	4.64	0.20	0.03	0.13
176	110772990	14.5	13.9	15.2	1443	66	43	7640	101	4.24	0.27	0.15	0.10

Table E.1. continued.

Nr.	CoID	B_{mag} [mag]	V_{mag} [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
177	110773807	12.6	12.2	27.6	169	23	9	7452	218	3.96	0.56	0.32	0.08
178	110825342	14.5	14.0	9.2	1342	71	32	7555	119	3.81	0.30	-0.12	0.11
179	110827463	NaN	11.8	24.2	111	27	12	7233	98	3.84	0.24	0.04	0.10
180	110827764	15.0	14.5	30.7	1056	13	2	7766	94	4.25	0.22	0.25	0.09
181	110831202	14.6	14.2	19.9	1227	55	33	7225	119	3.88	0.28	-0.11	0.16
182	110831420	15.1	14.4	5.8	219	15	9	6393	99	3.18	0.54	-0.05	0.11
183	110833270	13.8	13.4	36.9	489	62	31	7790	104	4.45	0.25	-0.00	0.08
184	110835917	14.8	14.3	20.2	1125	22	11	7516	105	4.01	0.34	-0.18	0.12
185	110835995	15.3	14.7	21.9	1541	42	17	8384	100	4.39	0.10	0.35	0.12
186	110836874	15.0	14.5	27.3	966	21	14	7334	100	4.38	0.21	-0.16	0.12
187	110837081	14.8	14.1	23.8	899	44	21	7305	113	3.86	0.18	0.39	0.08
188	110837238	15.6	15.1	55.8	397	13	3	8037	95	4.48	0.25	0.09	0.10
189	110837635	15.4	14.8	27.1	749	14	6	7068	99	3.44	0.25	0.23	0.08
190	110845045	14.1	13.7	30.1	1142	21	8	7438	97	4.36	0.15	0.30	0.11
191	110851071	14.5	14.0	16.4	1571	70	26	7187	98	4.15	0.29	-0.04	0.10
192	110851139	16.0	15.4	37.7	451	14	5	7821	97	4.16	0.34	0.09	0.09
193	110852849	14.4	13.9	4.0	1168	64	42	7620	109	4.11	0.22	0.15	0.11
194	110856377	15.4	14.8	2.6	1339	53	28	6853	107	3.32	0.33	-0.22	0.10
195	110856424	13.0	12.6	1.7	6989	87	72	7616	100	4.36	0.22	0.38	0.08
196	110856687	12.7	12.2	2.1	72	30	15	6638	98	3.36	0.21	0.09	0.09
197	110859822	14.8	14.2	23.3	1224	28	10	7567	99	4.32	0.22	0.01	0.09
198	102622725	14.5	13.5	19.6	269	62	42	5658	214	3.95	0.50	0.55	0.14
199	102628471	14.6	13.5	14.9	226	56	39	5594	100	3.26	0.22	-0.20	0.10
200	102707756	14.2	13.7	0.4	77	13	6	7229	100	4.37	0.35	-0.00	0.08
201	10275862	14.0	13.6	30.4	1168	54	27	7702	336	4.20	0.62	-0.13	0.10
202	102737008	14.6	14.0	22.0	249	22	13	7047	98	3.92	0.20	0.28	0.11
203	102776185	14.8	14.3	16.6	1290	126	86	8530	444	4.30	0.52	0.19	0.15
204	102613079	15.2	14.5	2.7	631	28	16	7022	106	4.12	0.24	-0.11	0.12
205	102655048	14.6	14.0	1.5	2536	41	25	6818	99	3.49	0.17	0.20	0.13
206	102684448	14.2	13.7	1.9	3355	110	97	7430	100	3.40	0.10	0.00	0.12

Table E.1. continued.

Nr.	CoID	B_{mag} [mag]	V_{mag} [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	T_{eff} [K]	ΔT_{eff} [K]	$\log g$ [dex]	$\Delta \log g$ [dex]	M/H [dex]	$\Delta M/H$ [dex]
207	102637003	14.1	13.5	11.9	476	67	52	7677	116	3.85	0.34	0.05	0.09
208	102769842	14.8	14.3	17.1	2291	73	39	7084	98	3.65	0.28	-0.23	0.12
209	102620178	14.0	13.5	13.3	569	86	66	7901	605	3.09	0.83	0.71	0.15
210	102760705	14.5	13.9	4.4	571	90	71	7970	100	4.03	0.34	0.81	0.15
211	102685368	15.0	14.5	2.2	869	62	46	6934	99	3.53	0.19	0.39	0.09
212	102766498	15.0	14.4	32.0	697	31	17	7249	99	3.74	0.12	0.41	0.08
213	102696776	14.4	14.1	16.7	548	31	14	8984	381	3.93	0.38	0.60	0.14
214	102757422	14.7	14.2	5.8	737	45	31	7664	96	4.90	0.56	-0.22	0.20
215	102637068	14.6	14.1	3.7	287	31	23	8631	429	4.03	0.61	0.44	0.19
216	102625371	14.9	14.4	17.7	504	62	47	7720	105	4.38	0.28	0.34	0.11
217	102570129	14.6	14.1	2.1	1918	39	26	8251	438	4.40	0.44	0.25	0.10
218	102770429	14.9	14.3	1.2	257	20	9	8921	457	4.24	0.55	0.63	0.21
219	102723549	14.8	14.2	21.7	1534	36	16	7143	103	3.98	0.29	0.30	0.09
220	102584233	13.8	13.2	21.2	188	27	10	6291	96	3.54	0.16	0.00	0.11
221	102587554	14.3	13.7	18.3	631	45	17	7330	96	3.88	0.23	0.50	0.13
222	102589213	13.1	12.6	40.5	249	18	6	8093	228	4.22	0.23	0.04	0.10
223	102595358	13.5	12.9	9.1	111	20	13	6644	99	3.31	0.10	0.21	0.07
224	102595669	13.9	13.4	2.9	595	63	46	8112	114	3.66	0.11	0.05	0.08
225	102600012	14.8	14.3	38.3	398	34	15	8227	151	4.11	0.25	0.85	0.15
226	102603266	13.1	12.7	2.4	13921	110	94	6931	116	3.03	0.48	-0.57	0.16
227	102607188	15.0	14.5	54.6	351	35	15	7814	99	3.98	0.11	0.12	0.10
228	102608837	13.5	12.9	2.6	276	33	15	7037	100	3.81	0.24	-0.15	0.10
229	102615872	12.2	11.8	2.1	180	29	11	7434	100	4.51	0.11	-0.43	0.14
230	102618519	14.5	13.9	18.8	639	67	34	7631	112	4.43	0.23	0.09	0.09
231	102620865	13.5	13.0	7.5	3333	103	78	7542	104	3.71	0.38	-0.41	0.27
232	102629848	13.4	12.9	9.3	781	48	29	8033	99	3.76	0.24	-0.03	0.13
233	102636735	14.6	14.0	1.4	1308	102	71	7100	111	3.98	0.24	-0.01	0.09
234	102639658	11.9	11.6	16.2	384	34	23	7562	100	4.26	0.36	-0.56	0.20
235	102641760	13.9	13.4	32.4	1713	55	24	7646	99	4.40	0.24	-0.23	0.13
236	102645179	13.5	12.9	0.5	120	33	22	6621	99	2.80	0.10	0.13	0.08

Table E.1. continued.

Nr.	CoID	B_{mag} [mag]	V_{mag} [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	log g [dex]	Δ log g [dex]	M/H [dex]	Δ M/H [dex]
237	102645683	13.5	13.0	0.9	234	13	6	6277	93	2.84	0.30	-0.68	0.15
238	102654663	15.1	14.4	2.1	3714	109	85	6801	99	3.32	0.37	-0.30	0.14
239	102655408	14.9	14.3	20.7	585	33	14	7749	99	3.02	0.10	0.40	0.08
240	102656251	13.5	13.0	25.8	555	33	16	7743	99	4.01	0.32	-0.11	0.11
241	102663289	14.2	13.8	4.3	644	67	47	7789	99	4.44	0.17	-0.12	0.14
242	102664100	13.1	12.7	33.9	83	7	1	8040	101	4.51	0.11	-0.00	0.12
243	102664847	14.0	13.6	16.1	370	63	36	7755	120	4.21	0.10	-0.50	0.17
244	102666754	12.5	11.9	8.5	992	119	84	6442	100	2.40	0.10	-0.12	0.11
245	102670461	12.8	12.3	14.2	578	99	67	7351	100	3.66	0.21	-0.15	0.10
246	102676137	14.8	14.2	2.5	784	66	53	8546	102	3.86	0.11	0.11	0.10
247	102676382	13.9	13.5	5.5	388	47	33	7746	100	4.38	0.17	-0.16	0.11
248	102677987	13.1	12.7	23.6	926	57	30	7768	100	3.98	0.11	0.11	0.08
249	102678268	13.0	12.6	18.4	498	107	79	6903	100	3.88	0.26	-0.40	0.15
250	102680857	13.8	13.4	16.7	192	26	1	7870	120	3.41	0.19	0.59	0.11
251	102683908	13.7	13.2	15.8	1261	112	45	7775	99	4.19	0.10	0.14	0.16
252	102686153	13.8	13.2	8.8	1203	46	29	6999	99	3.66	0.28	0.08	0.11
253	102689913	13.4	12.9	1.1	227	52	32	7654	102	4.24	0.21	0.01	0.09
254	102690683	15.1	14.4	14.6	332	11	4	6628	99	3.62	0.29	0.01	0.10
255	102691789	14.4	13.9	25.9	625	24	8	7662	114	4.12	0.30	0.38	0.11
256	102698507	13.7	13.2	3.2	698	19	10	7033	105	3.64	0.28	0.03	0.11
257	102699841	14.3	13.8	5.3	775	87	61	7237	99	3.80	0.10	0.33	0.13
258	102702779	13.5	13.0	23.5	700	102	70	7530	100	3.91	0.27	0.16	0.09
259	102705065	14.5	13.9	1.6	1512	110	93	6808	135	3.51	0.46	0.17	0.09
260	102706194	13.9	13.5	23.2	1525	105	66	7565	100	3.77	0.31	0.11	0.13
261	102706982	14.2	13.6	24.1	364	17	5	7245	99	3.94	0.15	-0.10	0.14
262	102710037	15.1	14.4	5.7	213	18	12	6217	98	3.17	0.20	0.65	0.15
263	102713193	13.4	13.0	19.0	543	22	12	7188	107	4.23	0.41	-0.30	0.15
264	102713978	14.3	13.7	11.3	1379	32	22	6703	101	3.57	0.22	0.39	0.09
265	102723244	12.6	12.3	33.7	1674	24	11	8069	99	4.17	0.14	-0.01	0.13
266	102743992	14.6	14.1	16.8	702	58	37	8227	101	4.34	0.18	0.00	0.00

Table E.1. continued.

Nr.	CoID	<i>B</i> mag [mag]	<i>V</i> mag [mag]	Frequency [c/d]	Amplitude [ppm]	Nr. of Frequencies	Combination Frequencies	Teff [K]	Δ Teff [K]	logg [dex]	Δ logg [dex]	M/H [dex]	Δ M/H [dex]
267	102746628	13.2	12.7	12.5	97	14	4	6947	117	3.11	0.36	0.35	0.08
268	102755594	12.5	12.2	23.6	140	20	7	7048	97	3.68	0.28	-0.10	0.10
269	102760159	13.4	13.1	16.7	501	36	13	7824	99	4.32	0.30	-0.43	0.24
270	102761296	13.9	13.4	7.3	5221	112	82	7455	99	3.48	0.10	0.04	0.11
271	102762741	12.9	12.4	7.6	426	93	76	7543	97	3.78	0.18	-0.10	0.11
272	102772840	13.5	12.9	15.8	325	48	19	7464	102	4.31	0.26	0.25	0.09
273	102780330	14.8	14.2	6.3	1196	36	14	7805	107	3.91	0.29	0.40	0.11
274	102783836	14.7	14.1	2.4	1178	79	62	7124	110	3.71	0.25	0.53	0.10

Appendix F

Abstract

Stellar pulsation allows us to probe the interior of stars. Through pressure (p) modes, which can give us information of the outer layers of a star and through gravity (g) modes, which give us information of the deeper layers of the star, we are able to study the physical process within a star.

Apart from δ Scuti stars that pulsate in p-modes and γ Doradus stars that pulsate in g-modes there are δ Scuti - γ Doradus hybrid stars which pulsate in both ways. These stars are ideal candidates for asteroseismology.

Using the CoRoT space telescope it was possible to analyse a large sample of uninterrupted and long time-base observations of thousands of stars. With the accuracy of this instrument it is possible to detect stellar oscillations of 100 ppm for stars down to a visual magnitude of 15. Additional photometric and spectroscopic ground based support observations from the Australian AAO, the Spanish INT and OSN observatories are used to derive fundamental parameters of these stars.

Combining the pulsational data and the fundamental parameters of identified δ Scuti, γ Doradus and δ Scuti- γ Doradus hybrid stars it was possible to characterise this group of stars in a statistical way. The instability strip (IS) of hybrid stars in the Hertzsprung-Russel diagram (HRD) was found to be equal to that of δ Scuti stars and not to be limited to the overlapping region of δ Scuti and γ Doradus stars. Hybrid stars show a different pulsational behaviour in the g-mode regime as γ Doradus stars. Furthermore the analysis of the metallicity showed that hybrids are in general more abundant, but less abundant than δ Scuti stars of the same tempera-

ture. Convective blocking can explain the driving of pulsation in γ Doradus stars but should be insufficient for the hotter hybrid stars. This indicates that a different mechanism might be needed to explain the observed g-modes in hotter hybrid stars that are present all over the δ Scuti instability strip.

Appendix G

Zusammenfassung

Die Analyse von stellarer Pulsation erlaubt es uns tief in das Innere der Sterne zu blicken. Mit Hilfe von Druckmoden (p) können wir die äußeren Schichten der Sterne erforschen und Gravitationsmoden (g) ermöglichen es uns bis in tiefere Schichten vorzustoßen.

Unter der Vielzahl von pulsierenden Sternen existieren neben den δ Scuti Sternen die in p-Moden pulsieren und den γ Doradus Sternen die in g-Moden pulsieren noch die sogenannten δ Scuti - γ Doradus Hybridsterne welche in beiden Moden pulsieren.

Mit Hilfe des CoRoT Weltraumteleskops war es möglich ein großes Sample an Sternen zu analysieren. Verwendet wurden dazu Lichtkurven von tausenden Sternen die ohne Unterbrechung aufgenommen wurden. CoRoT erlaubt mit seiner hohen Genauigkeit stellare Pulsation bis zu einer Grenze von 100ppm für Sterne mit einer visuellen Helligkeit von 15. Zusätzliche bodengebundene spektroskopische und photometrische Beobachtungen wurden am australischen AAO, dem spanischen INT und OSN Observatorium durchgeführt. Diese Messungen erlaubten es, für die mit CoRoT beobachteten Sterne die Fundamentalparameter zu bestimmen.

Durch die Verwendung der Information aus der Pulsation und der Fundamentalparameter der identifizierten δ Scuti, γ Doradus und δ Scuti - γ Doradus Hybridsterne war es möglich diese Gruppen von Sternen statistisch besser als bisher zu beschreiben. Der Instabilitätsstreifen der Hybridsterne erstreckt sich über den gesamten δ Scuti Bereich und ist nicht beschränkt auf den Überlappungsbereich der

δ Scuti und der γ Doradus Sterne. Weiters zeigen Hybridsterne ein anderes Pulsationsverhalten im g-Moden Bereich als die γ Doradus Sterne im Sample. Weiters hat die Untersuchung der Metallizität ergeben, daß sich Hybridsterne im Allgemeinen überhäufiger als γ Doradus Sterne aber gleichzeitig unterhäufiger als δ Scuti Sterne im selben Temperaturbereich sind. Konvektives Blocken, wie in den γ Doradus Sternen, sollte laut gängiger Theorie für die heißeren Hybriden nicht ausreichend sein um Pulsation zu Treiben. Daher kann geschlossen werden, daß ein anderer, bis jetzt unbekannter Mechanismus vorhanden sein muß, der die beobachtete g-Moden Pulsation in den heißeren Hybridsternen erklärt.

Appendix H

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Appendix I

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