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## WHITE DWARF PERIOD TABLES

## I. PULSATORS WITH HYDROGEN-DOMINATED ATMOSPHERES

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## 1 Introduction

The tradition of collecting and publishing the main photometric and physical parameters of pulsating white dwarf (WD) stars, together with their observed pulsation periods, amplitudes and their references, goes back to 1995. Bradley (1995) collected this information on the ZZ Ceti (or DAV), V777 Her (or DBV), interacting binary white dwarf (IBWD) stars, and also on the pulsating PG 1159-type (or DOV) and planetary nebula nucleus variable (PNNV) stars known at that time. Two updates followed this paper published in 1998 and 2000, respectively (Bradley 1998, 2000). After that time, online-only updates were presented for the white dwarf community in 2001<sup>1</sup>, in 2005<sup>2</sup> and in 2010<sup>3</sup>. The last source lists the ZZ Ceti stars only (155 items).

In the meantime, dividing the hot (pre-)white dwarf pulsators into DOV and PNNV classes have become obsolete, and now the denomination GW Vir stars is used instead for all the post-AGB stars showing nonradial  $g$ -mode pulsations (Quirion et al. 2007). Nevertheless, new groups of pulsating white dwarfs have been discovered, like the extremely low-mass DA pulsators (ELM-DAVs), the hot DAV stars, the DQV stars and the pulsating, mixed-atmosphere, extremely low-mass white dwarf precursors (pre-ELM WD variables). ZZ Ceti variables in detached white dwarf plus main-sequence (MS) binaries have also become known. Considering the new groups, the newly discovered members of the ‘classical’ ZZ Ceti, V777 Her and GW Vir groups, and also the new observational results on the formerly known pulsators, the update of the white dwarf data tables is now appropriate.

In this paper, taking account of the relatively large number of white dwarf variables and the considerable observational information on them, we focus on their most populated subgroup, that is, on the variables with hydrogen-dominated atmospheres only. Thus, we collected the main stellar parameters and pulsational properties with references of the ‘classical’ ZZ Ceti stars, the ZZ Ceti variables in detached WD plus MS binaries, the ELM-DAV and hot DAV stars.

<sup>1</sup><http://astro.if.ufrgs.br/wdtab.htm>; by Kepler de Souza Oliveira Filho

<sup>2</sup><http://whitedwarf.org/tables/>; webpage of the White Dwarf Research Corporation

<sup>3</sup><http://astro.if.ufrgs.br/zzceti.htm>; by Kepler de Souza Oliveira Filho

## 2 Data collection and structure of the data tables

Table 1 lists the ZZ Ceti variables in detached white dwarf plus main-sequence binaries. This list of seven variables is based on the paper of Pyrzas et al. (2015).

Table 2 summarizes the observational results on the seven extremely low-mass DA pulsators presented in the papers of Hermes et al. (2012, 2013b,d); Bell et al. (2015b) and Kilic et al. (2015).

The hot DAV stars are listed in Table 3, a new group consisting of three members discovered by the work of Kurtz et al. (2008, 2013).

Finally, we list the members of the most populated subgroup of white dwarf pulsators with hydrogen atmospheres, the ‘classical’ ZZ Ceti stars, in Table 4. These objects can be treated as products of single-star evolution, in contrast to the ELM-DAV or ZZ Ceti stars in WD+MS binaries. We started the data collection with the 136 DAVs listed and refereed in the review paper of Fontaine & Brassard (2008). We then complemented this list with the ZZ Ceti stars reported by Stobie et al. (1997); Castanheira et al. (2010); Hermes et al. (2011); Sayres et al. (2012); Kepler et al. (2012); Castanheira et al. (2013); Hermes et al. (2013a); Greiss et al. (2014); Green et al. (2015); Gentile Fusillo et al. (2016); Greiss et al. (2016) and Bell et al. (2016). We closed the data collection with this last paper published on arxiv.org on 7th July, 2016. Altogether, 180 ZZ Ceti stars are listed in Table 4.

All tables follow the same structure specified below.

- Identifiers: the first column shows the star’s identifier in WD (J)HHMM±DDM(M) format, while the second column shows another identifier used in the literature or can be used to identify the object in the SIMBAD database (Wenger et al. 2000). The identifiers in parentheses are not recognized by SIMBAD, but used in the literature.
- Third and fourth columns: right ascension (RA) and declination (DEC) in the equatorial coordinate system (epoch J2000.0) from the SIMBAD database. The objects are arranged according to increasing right ascensions.
- Fifth and sixth columns: effective temperature ( $T_{\text{eff}}$ ) and surface gravity ( $\log g$ ) values. In the case of ZZ Ceti stars in Table 4, most of the objects can be found either in the database of Gianninas et al. (2011) or Tremblay et al. (2011) with their spectroscopic atmospheric parameters determined by one-dimensional model atmospheres and by the use of the ML2/ $\alpha=0.8$  version of the mixing-length theory. We corrected these  $T_{\text{eff}}$  and  $\log g$  values according to the findings of Tremblay et al. (2013) based on radiation-hydrodynamics three-dimensional simulations of convective DA stellar atmospheres. We denoted the resulting values with  $G$  or  $T$  in superscript at the corresponding effective temperatures referring to the source of the original atmospheric parameters. In all the other cases, the source of the  $T_{\text{eff}}$  and  $\log g$  values is the paper referred to in the last column, which is practically the paper reporting the discovery of the given pulsator.
- Seventh column: the  $V$  magnitude of the star in the SIMBAD database. If there is no such data in SIMBAD, we list its  $g$  magnitude, or, in absence of both  $V$  and  $g$  magnitudes, its brightness in  $B$  band.
- Eight and ninth (last) columns: pulsation period (in second) with Fourier amplitude (in milli-modulation amplitude, mma) values arranged according to increasing periods, and the corresponding references. We applied the

$$1 \text{ mma} = 1/1.086 \text{ mmag} = 0.1\% = 1 \text{ ppt}$$

conversion to convert the amplitudes published if necessary.

Our data collection strategy was to use the NASA’s Astrophysics Data System (ADS) to search for publications referring to a given object and looked for papers publishing pulsation periods and their Fourier amplitudes. In some instances, only period values were presented. In such cases, we abstained from making estimates on the amplitudes by the Fourier spectra presented (if any), thus we listed the periods only.

We aimed at collecting linearly independent pulsation frequencies alone, thus, if a frequency was denoted as a combination term in the literature, we did not add it to the period list. Such cases are indicated in parentheses by the following remarks after the periods and amplitudes: ‘+C’ – there are additional linear combinations (including harmonics) reported; ‘+SH’ – additional subharmonics ( $\sim n/2f_i$ ) present in the data. ‘+R’ denotes that frequency components, which may be results of rotational splitting are also detected. In addition, the ‘iR’ remark means that the period list contains rotationally split frequencies, while ‘iC?’ denotes that our list may contain combination terms.

### 3 What is new?

One of the most conspicuous improvements we made comparing to the previous versions of white dwarf data tables is the completion of the object list with newly discovered pulsators both in the formerly known group of classical ZZ Ceti stars and in the newly established groups of hydrogen-atmosphere white dwarf pulsators.

Another relevant improvement concerns the periods listed. The authors restricted to the presentation of one set of periods, or just a representative period range, per object in the previously published white dwarf data tables. In contrast, we attempted to collect all different period lists existing in the literature for an object, that is, observational results from different epochs. We also emphasize this choice with the title selection of our catalogue ‘White Dwarf Period Tables’ instead of the ‘White Dwarf Data Tables’ used previously. This also implies that we present the almost complete bibliography of the observations of hydrogen-atmosphere pulsating white dwarf stars starting from 1968.

The different periods observed at different epochs can be the result e.g. of the different lengths and qualities of the data sets analysed, however, especially in the case of the ZZ Ceti stars being close to the red edge of the instability domain, short time-scale variations in the amplitudes of the excited modes are common. That is, pulsation modes never seen can be excited to an observable level, while others can vanish from one observational run to another. Eventually, comparing the different sets of periods from different runs, it can result in a more complete set of pulsation periods, which is essential for detailed asteroseismic investigations.

Smaller, but also significant improvements that we checked and corrected the star identifiers if it was necessary, in order to publish at least one identifier per star which can be found in the SIMBAD database. In essence, this affected the Sloan Digital Sky Survey (SDSS) identifiers, where the use of the correct format, including all the necessary decimals is crucial. We also note that in many cases the WD (J)HHMM $\pm$ DDM(M) identifiers used in the literature are not found in SIMBAD, thus, especially in the publication of a new discovery, we recommend the indication of another identifier existing in the database (if any), or at least the equatorial coordinates of the object to make the identification of the new pulsator clear and easy. At last, as we mentioned in Sect. 2, we revised and updated the effective temperature and surface gravity values of the classical ZZ Ceti stars.

Table 1: ZZ Ceti stars in detached white dwarf plus main-sequence binaries.

WD (SDSS)	Identifiers	RA (h m s)	DEC ( $^{\circ}$ $'$ $''$ )	$T_{\text{eff}}$ (K)	$\log g$ (dex)	V (mag)	Period/Amplitude (s/mma)	References
0049-011	SDSS J005208.42-005134.7	00 52 08	-00 51 35	12 300	8.46	18.3 (g)	1077.2/4.0; 1093.8/4.0	Pyrzas et al. (2015)
(J0111+000)	SDSS J011123.90+000935.2	01 11 24	+00 09 35	12 320	7.50	18.4 (g)	366.5/9.1; 510.2/18.9; 583.2/16.3; 631.6/28.0; 883.6/15.9	Pyrzas et al. (2015)
0201+004	SDSS J020351.29+004025.0	02 03 51	+00 40 25	10 790	8.17	19.4 (g)	398.8/11.9; 683.9/15.2; 957.0/38.5	Pyrzas et al. (2015)
(J0824+1723)	SDSS J082429.01+172345.4	08 24 29	+17 23 45	11 430	8.21	18.3 (g)	513.9/9.2; 623.7/20.4; 807.2/13.9; 987.9/12.0	Pyrzas et al. (2015)
(1043+0603)	SDSS J104358.59+060320.9	10 43 59	+06 03 21	11 170	8.19	18.7 (g)	164.9/6.6; 292.5/5.3; 324.7/28.8; 634.4/8.5	Pyrzas et al. (2015)
(J1117-1255)	SDSS J111710.53-125540.9	11 17 11	-12 55 41	11 300	8.29	19.7 (g)	835.8/21.9	Pyrzas et al. (2015)
(J1136+0409)	SDSS J113655.18+040952.6	11 36 55	+04 09 53	11 700	7.99	17.1	182.2/4.4; 276.5/8.3	Pyrzas et al. (2015)
							160.8/0.4; 162.2/1.2; 163.7/0.4; 181.3/1.8; 201.8/0.5; 274.9/3.5; 279.4/2.3; 284.2/0.2; 337.7/0.8; 351.1/0.7; 395.9/0.4; 474.5/0.4 (IR)	Hermes et al. (2015)

Table 2: Extremely low-mass DA pulsators.

WD (SDSS)	Identifiers	RA (h m s)	DEC ( $^{\circ}$ $'$ $''$ )	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/mma)	References
(J1112+1117)	SDSS J111215.82+111745.0	11 12 16	+11 17 45	9590	6.36	16.3	107.6/0.4; 134.3/0.4; 1792.9/3.3; 1884.6/4.7; 2258.5/7.5; 2539.7/6.8; 2855.7/3.6	Hermes et al. (2013d)
(J1518+0658)	SDSS J151826.68+065813.2	15 18 27	+06 58 13	9900	6.80	17.6 (g)	1335.3/13.6; 1956.4/18.1; 2134.0/14.2; 2268.2/21.6; 2714.3/21.6; 2799.1/35.4; 3848.2/15.7	Hermes et al. (2013d)
(J1614+1912)	SDSS J161431.28+191219.4	16 14 31	+19 12 19	8880	6.66	16.4 (g)	1318.8/12.9; 1956.3/18.1; 2210.0/19.9; 2413.1/15.6; 2796.0/41.1; 2802.8/26.4; 3683.7/17.7	Hermes et al. (2013d)
(J1618+3854)	SDSS J161831.69+385415.1	16 18 32	+38 54 15	9140	6.83	19.7 (g)	1184.1/3.2; 1262.7/5.9	Hermes et al. (2013b)
–	PSR J1738+0333	17 38 54	+03 33 11	9130	6.55	21.3	2543.0/16.0; 4935.2/56.3; 6125.9/25.5	Bell et al. (2015b)
(J1840+6423)	SDSS J184037.78+642312.3	18 40 38	+64 23 12	9100	6.22	18.9 (g)	1788.0/12.7; 2656.0/11.5; 3057.0/12.2	Kilic et al. (2015)
(J2228+3623)	SDSS J222859.93+362359.6	22 28 60	+36 24 00	7870	6.03	16.9 (g)	1578.6/29.5; 2376.0/48.8; 4445.9/65.9	Hermes et al. (2012)
							3254.5/2.3; 4178.3/6.3; 6234.9/1.9	Hermes et al. (2013b)

Table 3: Hot DAV stars.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ $'$ $''$ )	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/mma)	References
0101+145	SDSS J010415.99+144857.4	01 04 16	+14 48 57	29980	7.38	18.8	159.0/4.0	Kurtz et al. (2008)	
0232-097A	SDSS J023520.02-093456.3	02 35 20	-09 34 56	30110	7.30	17.8	705.0/15.6	Kurtz et al. (2008)	
1017-138	-	10 19 52	-14 07 34	32600	7.80	14.6	624.0/1.0	Kurtz et al. (2013)	

Table 4: List of ZZ Ceti stars.

WD	Identifiers	RA (h m s)	DEC ( $^{\circ}$ $'$ $''$ )	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/nmma)	References
(J0000-0046)	SDSS J000006.75-004654.0	00 00 07	-00 46 54	10620 <sup>T</sup>	8.18	18.8 (g)	584.8/15.9; 601.4/9.0; 611.4/23.0	Castanheira et al. (2007)
(J0018+0031)	SDSS J001836.11+003151.1	00 18 36	00 31 53	11530 <sup>T</sup>	8.04	17.4 (g)	257.9/5.8	Mullally et al. (2005)
0016-258	MCT 0016-2553	00 18 45	-25 36 42	11060 <sup>G</sup>	8.06	16.1	149.9/3.7; 257.3/6.0	Castanheira & Kepler (2009)
-	HE 0031-5525	00 33 36	-55 08 39	11480	7.65	15.7 (g)	1152.4/8.1	Gianninas et al. (2006)
0036+312	G 132-12	00 39 04	31 31 37	12480 <sup>G</sup>	8.00	16.2	274.9/1.5; 276.9/4.8; 329.5/2.5	Castanheira et al. (2006)
0041+006	SDSS J004345.78+005549.9	00 43 46	00 55 50	12130 <sup>T</sup>	8.14	18.7 (g)	212.7/4.3	Gianninas et al. (2006)
(J0048+1521) 0046+150	SDSS J004855.17+152148.7	00 48 55	15 21 49	11280 <sup>T</sup>	8.17	18.7 (g)	258.2/6.7	Castanheira et al. (2010)
0049-473	EC 00497-4723	00 52 01	-47 07 09	-	-	16.5	615.3/24.8	Mullally et al. (2005)
(J0102-0032) 0059-008	SDSS J010207.17-003259.4 LP 586-51	01 02 07	-00 33 00	10850 <sup>T</sup>	8.18	18.2	323.1/14.8; 333.2/8.6; 609.8/22.1; 636.4/8.7; 672.3/8.5; 698.4/18.3	Romero et al. (2013)
0104-464	BPM 30551	01 06 54	-46 08 54	11240 <sup>G</sup>	8.16	15.4	500.0/7.0; 722.0/23.0; 867.0/17.0; 1083.0/12.0; 1182.0/9.0	Stobie et al. (1997) (periods and amplitudes; Castanheira & Kepler 2009)
(J0111+0018)	SDSS J011100.63+001807.2	01 11 01	00 18 07	11490 <sup>T</sup>	8.08	18.8 (g)	830.3/29.2; 926.1/37.2	Mukadam et al. (2004)
0120+002	SDSS J012234.68+003025.8	01 22 35	00 30 26	11650 <sup>T</sup>	7.94	16.8 (g)	752.2/19.4; 830.3/35.1; 926.3/34.7; 1043.4/15.3	Mukadam et al. (2006)
-	SDSS J012950.44-101842.0	01 29 50	-10 18 42	11910	8.00	18.4 (g)	796.1/75.1	Gentile Fusillo et al. (2016)
0132-014	SDSS J013440.94-010902.3	01 34 41	-01 09 02	10260 <sup>T</sup>	7.82	18.1 (g)	606.8; 682.7; 744.7; 840.2; $\sim$ 11mma	Hesser et al. (1976)
							255.3/15.6; 292.3/21.9	Mukadam et al. (2004)
							255.5/13.0; 293.0/22.1 (+C)	Castanheira & Kepler (2009)
							255.7/14.3; 292.9/25.7 (+C)	Hermes et al. (2013c)
							121.1/1.5; 200.8/1.3; 358.6/1.2	Castanheira et al. (2010)
							147.4/2.3; 193.8/2.9	Castanheira et al. (2010)
							1212.0/45.4	Gentile Fusillo et al. (2016)

Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ $'$ $''$ )	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	$G$	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/nmma)	References
0133-116		Ross 548	01 36 14	-11 20 33	12 300 $G$	8.03	14.2				212.9; 273.0; $\sim$ 2-11mma	Lasker & Hesser (1971)
											212.8/5.1; 213.1/8.6; 274.3/5.8; 274.8/3.7 (iR)	Stover et al. (1977)
											212.8/4.8; 213.1/8.4; 274.3/5.3; 274.8/3.7	Stover et al. (1980)
											187.0/ $\sim$ 1; 212.8/2.1; 213.1/3.3; 274.3/2.2; 274.8/1.3; 320.0/ $\sim$ 1; 333.0/ $\sim$ 1	Kepler et al. (1995a)
											187.3/0.9; 212.8/4.1; 213.1/6.2; 274.3; 274.8; 318.1/0.9; 333.6/0.6	Mukadam et al. (2003)
											187.3/0.9; 213.0/5.4; 274.5/3.5; 318.1/1.1; 333.6/1.3	Castanheira & Kepler (2009)
											186.5/0.3; 186.7/0.4; 186.9/0.5; 212.8/4.4; 213.0/1.0; 213.1/6.6; 274.3/4.2; 274.5/0.7; 274.8/3.2; 317.0/0.4; 318.1/0.4; 319.2/0.4; 333.6/0.6; 334.5/0.3; 335.3/0.3; 336.2/0.3	Mukadam et al. (2013)
											186.9/0.9; 212.8/4.1; 212.9/1.4; 213.1/6.6; 217.8/0.3; 274.3/4.3; 274.5/1.2; 274.8/3.1; 318.1/0.7; 318.8/0.3; 333.6/0.6	Giammichele et al. (2015)
0145-221		MCT 0145-2211	01 47 22	-21 56 51	11 850 $G$	8.15	14.9				462.2/25.0; 727.9/19.0; 823.2/17.0	Fontaine et al. (2003) (amplitudes; Mukadam et al. 2006)
											189.4/4.7; 207.5/3.7	Voss et al. (2007)
(J0214-0823) 0211-086			02 13 06	33 16 10	11 920	7.39	15.8 (B)				263.5/7.1; 297.5/16.0; 347.1/8.3; 348.1/8.5	Mukadam et al. (2004)
			02 14 07	-08 23 18	11 580 $T$	7.86	17.9 (G)				263.2/7.0; 297.1/15.7; 347.3/6.6 (+C)	Castanheira & Kepler (2009)
0235+069		HS 0235+0655	02 38 33	07 08 10	10 950	7.75	16.6 (B)				1283.7/4.2	Voss et al. (2007)



Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ $'$ $''$ )	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/nm)	References
-	SDSS J024922.35-010006.7		02 49 22	-01 00 07	11 030 $T$	8.19	18.9	1005.6/5.6; 1045.2/10.9	Castanheira et al. (2006)
0246+326	KUV 02464+3239		02 49 28	32 51 13	11 620 $G$	8.13	15.8	831.6	Fontaine et al. (2001)
-	SDSS J030153.81+054020.0		03 01 54	05 40 20	11 470	8.09	18.1 (g)	300.8/24.9	Castanheira et al. (2010)
(J0303-0808) 0300-086A	SDSS J030325.22-080834.9		03 03 25	-08 08 35	11 260 $T$	8.40	18.8 (g)	619.3/4.3; 777.6/6.0; 828.7/12.6; 866.2/10.3; 993.2/14.3; 1250.3/4.8	Bognár et al. (2009)
(J0318+0030) 0316+003	SDSS J031847.09+003029.9		03 18 47	00 30 30	11 150 $T$	8.18	17.8 (g)	536.1/10.6; 587.1/10.1; 826.4/21.1	Mukadam et al. (2004)
(0332-0049) 0330-010	SDSS J033236.61-004918.3		03 32 37	-00 49 18	10 940 $T$	8.05	18.2 (g)	536.1/11.1; 587.1/10.6; 695.0/8.9; 826.4/27.3; 844.9/15.3	Mukadam et al. (2006)
0341-459	BPM 31594		03 43 29	-45 49 04	11 500 $G$	8.05	15.0	969.0/21.8; 746.4/21.1	Gentile Fusillo et al. (2016)
0344+073	KUV 03442+0719		03 46 51	07 28 03	10 870 $G$	7.78	16.2 (B)	402.0/4.1; 765.0/15.2; 938.4/6.7; 1143.7/7.4	Mukadam et al. (2006)
								314.0(?); 617.0	McGraw (1976)
								617.3 (+C,SH)	O'Donoghue (1986)
								416.1(?)/5.0; 617.9/9-65 (+C,SH)	O'Donoghue et al. (1992)
								1384.9/7.6	Gianninas et al. (2006)
								428.7/5.0; 431.8/3.9; 908.6/4.5; 972.9/2.2; 976.0/5.1; 976.6/1.8; 1023.9/1.8; 1031.2/2.6; 1097.5/2.2; 1136.5/5.2; 1139.6/4.3; 1167.1/2.8; 1185.6/2.8; 1192.6/2.0; 1237.4/2.7; 1238.0/2.6; 1250.4/5.4; 1287.0/6.0; 1289.6/1.5; 1323.3/10.6; 1326.8/2.6; 1349.2/9.6; 1396.1/1.8; 1403.7/3.7; 1423.7/2.7; 1508.8/5.9; 1686.5/2.3; 1806.8/1.8; 2425.7/1.7; 2439.0/4.0; 2494.8/4.7 (+R,C)	Su et al. (2014a)

Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ $'$ $''$ )	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/nma)	References
-	HE 0344-1207		03 47 07	-11 58 09	11 470	8.28	17.0 (B)	392.9/21.1; 461.0/11.4; 762.2/18.9	Voss et al. (2007)
(J0349+1036)	SDSS J034939.35+103649.9		03 49 39	10 36 50	11 720	8.40	16.6 (g)	184.5/3.8	Castanheira et al. (2013)
0416+272	HL Tau 76		04 18 57	27 17 48	11 470 <sup>G</sup>	7.92	14.1	747.4	Landolt (1968)
								626.0; 663.0; 746.0 (+C,SH)	Page (1972)
								494.2; 746.2 (+C)	Fitch (1973)
								359.0/8.1; 383.0/21.8; 450.0/7.3; 494.0/30.2; 541.0/40.5; 597.0/15.6; 657.0/11.2; 781.0/9.9; 796.0/9.7; 933.0/25.2; 1065.0/19.9 (iC?)	Dolez (1998)
								382.5/16.5; 493.2/7.1; 494.2/4.4; 541.0/28.5; 541.8/8.1; 542.5/7.0; 596.8/14.6; 597.1/4.5; 598.6/3.6; 659.5/10.7; 660.1/7.4; 661.4/9.3; 661.9/7.6; 662.3/10.8; 662.8/3.5; 663.6/11.9; 664.2/15.0; 792.7/4.1; 794.1/5.1; 795.7/3.6; 796.4/3.7; 798.3/4.0; 799.1/5.2; 930.6/3.6; 933.2/3.2; 971.6/3.9; 974.4/5.0; 976.4/6.5; 979.2/4.3; 1060.2/7.7; 1061.8/11.4; 1062.6/3.2; 1067.5/9.7; 1070.8/9.6; 1390.8/3.6 (+C,R)	Dolez et al. (2006)
0417+361	G 38-29		04 20 17	36 16 27	11 160 <sup>G</sup>	7.89	15.6	923.9; 1021.9 (+C)	McGraw & Robinson (1975)
								413.3/3.1; 432.4/3.6; 544.9/6.1; 547.0/7.0; 548.9/4.8; 706.0/18.4; 709.2/6.0; 840.4/5.2; 900.0/10.6; 922.7/5.9; 945.4/12.3; 962.1/8.1; 963.6/4.6; 980.1/11.4; 989.7/10.0; 1002.2/7.1; 1016.2/5.8; 1081.8/5.0; 1086.8/3.9; 1089.4/5.2 (+C)	Thompson et al. (2009)
0455+553	G 191-16		04 59 27	55 25 21	11 440 <sup>G</sup>	8.04	16.0	588.2; 666.7; 882.6 (+C)	McGraw et al. (1981)
(0502+540)	LP 119-10		05 02 34	54 01 09	11 400	8.24	15.2	892.9 (+C,SH)	Vauclair et al. (1989)
								873.6/12.7	Green et al. (2015)

Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ $'$ $''$ )	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/nm)	References
0507+045	(HS 0507+0435) HS 0507+0434B		05 10 14	04 38 55	12010 $^{\circ}$	8.19	15.3	278.4/12.8; 355.1/22.0; 445.2/7.3; 558.7/19.0 (+C)	Jordan et al. (1998)
								354.9/10.9; 355.4/4.7; 355.8/25.7; 444.6/12.6; 445.3/3.0; 446.1/14.7; 555.3/18.6; 556.6/6.3; 557.6/17.1; 743.4/8.4 (+C,iR)	Handler & Romero- Colmenero (2001) (also in Handler et al. 2002)
								286.1/3.6; 354.9/6.8; 355.8/22.7; 444.8/13.6; 446.2/11.0; 557.7/18.7; 743.0/13.9 (+C,iR)	Kotak et al. (2002)
								355.8/24.0; 446.2/13.9; 555.3/16.6; 743.4/7.6	Castanheira & Kepler (2009)
								354.9/15.8; 355.3/2.5; 355.8/12.6; 444.7/5.3; 445.3/2.8; 446.1/13.8; 555.3/14.3; 556.5/6.7; 557.8/15.0; 654.8/11.0; 655.9/5.8; 657.1/10.6; 695.6/17.4; 699.6/15.2; 746.1/13.0; 748.6/10.5; 750.3/10.9; 999.7/3.0 (+C,iR)	Fu et al. (2013)
0517+307		GD 66	05 20 38	30 48 24	12210 $^{\circ}$	8.10	15.6	197.0/6.0; 256.0/5.0; 273.0/20.0; 304.0/10.0	Dolez et al. (1983)
								196.7; 271.4; 301.4; 810.4 (+C)	Fontaine et al. (1985)
								197.2/1.8; 197.6/4.2; 198.1/2.7; 255.9/3.4; 256.2/2.5; 271.2/2.9; 271.7/16.7; 272.2/2.5; 302.8/11.3; 518.6/1.8; 523.3/2.3 (+C,iR)	Yeates et al. (2005)
								197.4/5.4; 256.0/3.8; 271.7/17.0; 302.8/11.4 (+C)	Castanheira & Kepler (2009)
0532-560		HE 0532-5605	05 33 07	-56 03 53	11 510 $^{\circ}$	8.42	16.0	586.4; 688.8	Fontaine et al. (2003)
								522.4/2.1; 563.7/2.5; 599.7/2.5; 686.1/5.5; 723.7/7.8; 753.8/4.8; 822.3/3.4; 881.7/2.9	Castanheira & Kepler (2009)
(0702+440)		PM J07029+4406	07 02 59	44 06 54	11 000	8.29	15.1	1366.4/1.0	Green et al. (2015)

Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ $'$ $''$ )	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/nma)	References
-	(HS 0733+4119) SDSS J073707.99+411227.6		07 37 08	41 12 28	11 160	7.72	15.8 (g)	468.8/19.4; 656.2/38.7; 747.4/20.3	Voss et al. (2007)
(J0756+2020)	SDSS J075617.54+202010.2		07 56 18	20 20 10	11 830 <sup>T</sup>	8.13	18.3 (g)	199.5/6.8	Mullally et al. (2005)
(J0815+4437)	SDSS J081531.75+443710.3		08 15 32	44 37 10	11 840 <sup>T</sup>	8.21	19.3 (g)	258.3/6.2; 311.3/9.3; 311.7/22.0; 511.5/7.3; 787.5/6.6	Mukadam et al. (2004)
								258.3/6.8; 309.0/10.2; 311.7/18.9; 787.5/7.2	Mukadam et al. (2006)
(J0818+3131)	SDSS J081828.98+313153.0		08 18 29	31 31 53	11 820 <sup>T</sup>	8.13	17.4 (g)	202.3/3.3; 253.3/2.9	Mullally et al. (2005)
(0825+0329)	SDSS J082518.86+032927.8		08 25 19	03 29 28	12 120 <sup>T</sup>	8.15	17.5 (g)	303.0/3.8; 334.0/6.9; 481.0/4.5; 664.0/11-12; 704.0/6.0; 826.0/5.3	Kepler et al. (2005)
(J0825+4119)	SDSS J082547.00+411900.0		08 25 47	41 19 00	11 510 <sup>T</sup>	8.37	18.5 (g)	611.0/11.2; 653.4/17.1	Mukadam et al. (2004)
-	SDSS J083203.98+142942.3 (EPIC 211596649)		08 32 04	14 29 42	11 230	7.94	18.9 (g)	not published yet	Bell et al. (2016)
0836+404	KUV 08368+4026		08 40 08	40 15 04	12 010 <sup>G</sup>	8.13	15.6 (g)	494.5/6.0; 618.0/17.4	Vauclair et al. (1997)
								257.3/9.0; 362.5/2.0; 307.9/10.0; 400.1/5.0; 519.9/4.0; 778.8/5.0 (+C)	Dolez et al. (1999)
								257.2/11.5; 257.3/11.6; 257.3/10.4; 307.9/7.2; 308.0/14.1; 308.1/4.5; 362.3/3.7; 362.5/3.3; 399.9/8.0; 400.2/10.7; 463.1/2.4; 505.7/4.0; 506.0/8.2; 506.2/2.9; 779.0/5.2; 780.9/4.2; 782.0/2.4 (+C,iR)	Li et al. (2015)
-	SDSS J084054.14+145709.0 (EPIC 211629697)		08 40 54	14 57 09	10 570	7.92	18.3 (g)	487.0/1.6; 1095-1309 s	Bell et al. (2016)
(J0842+3707)	SDSS J084220.73+370701.7		08 42 21	37 07 02	11 620 <sup>T</sup>	7.88	18.8 (g)	309.3/17.9	Mukadam et al. (2004)
(0843+0431)	SDSS J084314.05+043131.6		08 43 14	04 31 32	11 220 <sup>T</sup>	8.09	17.8 (g)	212.3/5.2; 309.3/18.0; 321.1/4.4	Mukadam et al. (2006)
(J0847+4510)	SDSS J084746.82+451006.3		08 47 47	45 10 06	11 690 <sup>T</sup>	8.12	18.3 (g)	373.0/10.4; 1049.0/11.4; 1085.0/7.4	Kepler et al. (2005)
								201.0/7.3	Mukadam et al. (2004)

Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ $'$ $''$ )	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/nma)	References
(0851+0605)	SDSS J085128.17+060551.1		08 51 28	06 05 51	11 300 $T$	8.05	16.8 (g)	123.4/3.0; 200.5/7.0	Mukadam et al. (2006)
(J0853+0005) 0850+002	SDSS J085325.55+000514.2		08 53 26	00 05 14	11 950 $T$	8.15	18.2 (g)	326/22.4	Kepler et al. (2005)
(J0855+0635)	SDSS J085507.29+063540.9		08 55 07	06 35 41	10 970 $T$	8.22	17.2 (g)	264.4/4.0	Castanheira et al. (2007)
-	SDSS J085648.33+185804.9 (EPIC 211916160)		08 56 48	18 58 05	11 900	8.23	18.9 (g)	433.0/15.0; 850.0/44.0	Castanheira et al. (2007)
-	SDSS J090041.08+190714.3 (EPIC 211926430)		09 00 41	19 07 14	11 690	8.09	17.6 (g)	not published yet	Bell et al.(2016)
0858+363		GD 99	09 01 49	36 07 08	12 110 $G$	8.20	14.6	not published yet	Bell et al.(2016)
-	SDSS J090231.76+183554.9 (EPIC 211891315)		09 02 32	18 35 55	11 310	8.03	19.4 (g)	105.2/2.0; 223.6/2.9; 228.9/4.5; 633.1/2.0; 853.2/2.4; 924.7/1.7; 976.0/2.1; 1007.0/6.5; 1058.0/8.3; 1088.0/4.3; 1151.0/1.9	McGraw & Robinson (1976)
(J0906-0024)	SDSS J090624.26-002428.2		09 06 24	-00 24 28	11 260 $T$	8.07	17.7 (g)	223.9/2.6; 228.7/6.3; 1026.1/4.3; 1058.1/7.6	Bognár et al. (2007)
(0911+0310)	SDSS J091118.42+031045.1		09 11 18	03 10 45	11 630 $T$	8.14	18.4 (g)	486.0/11.9; 562.1/19.9; 756.4/22.2; 978.8/11.2	Bell et al.(2016)
(J0913+4036)	SDSS J091312.74+403628.7		09 13 13	40 36 29	11 850 $T$	8.09	17.6 (g)	266.6/7.6; 457.9/9.5; 574.5/23.7; 618.8/9.1; 769.4/26.1	Mukadam et al. (2004)
(J0916+3855)	SDSS J091635.07+385546.2		09 16 35	38 55 46	11 320 $T$	8.04	16.6 (g)	176.0/11.1; 347.0/17.4; 352.0-353.0/27.7-26.9; 388.0/12.3; 420.0/12.6; 757.0/16.4	Kepler et al. (2005)
(0917+0926)	SDSS J091731.00+092638.1 EQ J0917+0926		09 17 31	09 26 38	11 340 $T$	8.09	18.1 (g)	203.9/3.8; 260.3/16.5; 288.7/12.4; 320.5/14.7	Mullally et al. (2005)
								238.1/10.8; 447.7/14.4; 485.1/32.9; 747.2/9.1	Castanheira et al. (2007)
								212.0/8.0; 259.0/10.2; 289.0/16.1	Kepler et al. (2005)

Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ $'$ $''$ )	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/nma)	References
(J0923+0120) 0920+015	SDSS J092329.81+012020.0		09 23 30	01 20 20	11 190 $T$	8.38	18.3 (g)	595.2/7.4	Mukadam et al. (2004)
								655.7/4.4; 668.9/3.5	Mukadam et al. (2006)
0921+354	G 117-B15A		09 24 15	35 16 51	12 420 $G$	8.12	15.5	595.1/2.7; 1436.4/1.4; 2032.3;	Romero et al. (2013)
								1311.0	Richer & Ulrych (1974)
								216.0; 271.7; 307.7	McGraw & Robinson (1976)
								215.2/23.9; 271.0/7.3; 304.4/8.1 (+C)	Kepler et al. (1982)
								215.2/20.2; 270.5/5.6; 304.1/6.3 (+C)	Kepler et al. (1995c)
								215.2/17.4; 270.5/6.1; 304.1/7.5 (+C)	Castanheira & Kepler (2008)
(J0925+0509)	SDSS J092511.60+050932.4		09 25 12	05 09 33	10 830 $T$	8.21	15.2 (g)	1127.1/3.2; 1264.3/3.1	Castanheira et al. (2010)
								1159.0/2.7; 1341.0/4.0	Romero et al. (2013)
(J0939+5609) 0936+563	SDSS J093944.89+560940.2		09 39 45	56 09 40	11 690 $T$	8.29	18.7 (g)	249.9/7.2	Mukadam et al. (2004)
								48.5/5.9(?); 249.9/7.2	Mukadam et al. (2006)
(J0940+0052)	SDSS J094000.27+005207.1		09 40 00	00 52 07	10 590 $T$	8.34	18.1 (g)	255.0/17.1; 255.8/8.0	Castanheira et al. (2013)
(J0942+5733) 0938+577	SDSS J094213.13+573342.5		09 42 13	57 33 43	11 360 $T$	8.12	17.4 (g)	451.0/18.4; 550.5/12.2; 694.7/37.7	Mukadam et al. (2004)
								273.0/9.0; 550.5/12.3; 694.7/37.7; 909.4/7.7	Mukadam et al. (2006)
(0949-0000) 0946+002	SDSS J094917.04-000023.6		09 49 17	-00 00 24	11 130 $T$	8.21	18.8 (g)	213.3/6.0; 363.2/12.5; 364.0/7.3; 365.2/17.7; 516.6/16.2; 634.2/5.1; 711.6/6.0	Mukadam et al. (2004)
0951+132	HS 0951+1312		09 53 45	12 58 30	12 010 $G$	8.05	16.5 (g)	208.0/9.3; 258.6/3.6; 281.6/8.8	Mukadam et al. (2004)
								208.0/9.4; 258.0/3.6; 282.2/9.0; 311.7/2.7	Mukadam et al. (2006)
0952+182	HS 0952+1816		09 55 11	18 02 15	11 390 $G$	8.11	16.3 (g)	853.8/3.9; 1159.7/4.8; 1466.0/4.5	Mukadam et al. (2004)
								674.7/3.0; 790.0/2.9; 883.0/3.6;	Mukadam et al. (2006)

Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ $'$ $''$ )	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/nma)	References
(J0958+0130) 0955+017	SDSS J095833.13+013049.3		09 58 33	01 30 49	11 730 <sup>T</sup>	8.08	16.7 (g)	945.9/10.4; 1150.0/4.8; 1160.9/7.9	Mukadam et al. (2004)
(J0959+0238)	SDSS J095936.96+023828.4		09 59 37	02 38 29	11 830 <sup>T</sup>	8.06	18.5	203.7/2.5; 264.4/4.7	Mukadam et al. (2006)
(J1002+5818)	SDSS J100238.58+581835.9		10 02 39	58 18 36	11 440 <sup>T</sup>	8.11	18.3 (g)	121.2/1.6; 203.7/2.5; 264.4/4.7	Castanheira et al. (2010)
(J1007+5245) 1004+529	SDSS J100718.26+524519.8		10 07 18	52 45 20	11 390 <sup>T</sup>	8.12	18.9 (g)	268.2/6.8; 304.6/5.3	Mullally et al. (2005)
(J1015+5954)	SDSS J101519.65+595430.5		10 15 20	59 54 31	11 440 <sup>T</sup>	8.06	18.0 (g)	152.8/5.8; 258.8/11.0; 290.1/7.7; 323.1/10.4 (iC?)	Mullally et al. (2005)
(J1015+0306) 1013+033	SDSS J101548.01+030648.4		10 15 48	03 06 48	11 630 <sup>T</sup>	8.12	15.7 (g)	213.0/9.8; 292.4/8.5; 401.7/20.8; 453.7/15.8; 1116.5/12.6	Mukadam et al. (2004)
1039+412	HS 1039+4112 PB 520		10 42 34	40 57 15	11 730 <sup>G</sup>	8.12	16.1 (g)	139.2/4.6; 145.5/3.1; 292.4-294.0/8.6-9.1; 399.7-401.7/19.2-21.4; 453.8-456.1/15.5-19.6; 769.9-768.4/5.7-7.5	Mukadam et al. (2006)
1047+335	-		10 50 46	33 15 48	11 310 <sup>G</sup>	8.09	16.5 (g)	194.7/5.8; 255.7/7.3; 270.0/8.4	Mukadam et al. (2004)
(J1054+5307) 1051+533B	SDSS J105449.87+530759.1		10 54 50	53 07 59	10 960 <sup>T</sup>	7.96	17.9 (g)	837.3/26.0; 855.5/55.2 (+C)	Silvotti et al. (2005)
(J1056-0006)	SDSS J105612.32-000621.7		10 56 12	-00 06 22	11 130 <sup>T</sup>	7.91	17.5 (g)	767.5/27.7	Green et al. (2015)
(J1105-1613)	SDSS J110525.70-161328.3		11 05 26	-16 13 29	11 670	8.23	17.5 (g)	444.6/16.0; 869.1/37.4	Mullally et al. (2005)
(1106+0115) 1103+015	SDSS J110623.40+011520.8		11 06 23	01 15 21	10 920 <sup>T</sup>	7.90	18.4 (g)	314.2/11.0; 474.4/22.9; 942.2/62.3	Mukadam et al. (2004)
1116+026	GD 133		11 19 12	02 20 33	12 430 <sup>G</sup>	8.10	14.6	603.0/11.5; 670.6/12.0; 925.4/60.3; 1024.9/31.6	Mukadam et al. (2006)
								192.7/12.1; 298.3/7.1	Castanheira et al. (2010)
								842.0/9.4; 973.0/10.8	Kepler et al. (2005)
								115.9/1.5; 120.4/4.6; 146.9/1.1	Silvotti et al. (2006)

Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ $'$ $''$ )	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/nma)	References
(J1122+0358)	SDSS J112221.10+035822.4		11 22 21	03 58 22	11 030 $T$	7.91	18.2 (g)	7.91	18.2 (g)	859.0/34.3; 996.1/17.9	Mukadam et al. (2004)
(J1125+0345)	SDSS J112542.84+034506.3		11 25 43	03 45 06	11 600 $T$	7.95	18.1 (g)	7.95	18.1 (g)	740.1/10.0; 859.1/34.6; 996.1/17.3	Mukadam et al. (2006)
										208.6/2.8; 265.5/7.2; 265.8/3.3	Mukadam et al. (2004)
										208.6/2.8; 265.5/7.1; 265.8/3.3; 335.1/2.8	Mukadam et al. (2006)
1126-222	EC 11266-2217		11 29 12	-22 33 44	12 010 $G$	8.08	16.2	8.08	16.2	215.7-218.3/3.7-8.1; 234.1/4.49; 275.7-277.6/7.7-7.0; 386.4/4.0; 402.7/3.0	Voss et al. (2006)
(J1136-0136)	SDSS J113604.01-013658.1		11 36 04	-01 36 58	11 780 $T$	8.05	17.8 (g)	8.05	17.8 (g)	260.8/2.5	Castanheira et al. (2010)
1137+423	KUV 11370+4222		11 39 41	42 05 19	11 940 $G$	8.17	16.5 (g)	8.17	16.5 (g)	257.2/5.8; 292.2/2.7; 462.9/3.5	Vauclair et al. (1997)
1149+057	PG 1149+057		11 51 54	05 28 40	11 060 $G$	8.06	15.4	8.06	15.4	139.0/2.6; 257.9/18.3; 280.8/2.7; 293.8/3.0; 394.1/4.5; 398.1/2.5; 402.1/2.4; 462.8/8.4; 762.4/2.8; 811.8/2.5 (+C,iR)	Su et al. (2014b)
1150-153	EC 11507-1519		11 53 15	-15 36 36	12 440 $G$	8.20	16.0	8.20	16.0	249.6/7.7	Gianninas et al. (2006)
(J1157+0553)	SDSS J115707.43+055303.6		11 57 07	05 53 04	11 040 $T$	8.04	17.6 (g)	8.04	17.6 (g)	191.7/3.6; 249.4/4.7	Voss et al. (2007)
(J1200-0251)	SDSS J120054.55-025107.0		12 00 55	-02 51 07	11 970 $T$	8.24	18.2 (g)	8.24	18.2 (g)	436.1/3.9; 458.7/4.2; 748.5/5.6; 826.2/8.1; 918.9/15.9; 1056.2/5.8	Mukadam et al. (2004)
1159+803	G 255-2		12 01 45	80 04 59	11 440 $G$	8.14	16.0	8.14	16.0	257.1/6.7; 271.3/13.1; 294.1/6.7; 304.8/23.7	Castanheira et al. (2013)
										384.6; 476.2; 689.7/36.0; 840.3/36.0	Vauclair et al. (1981)
										399; 461; 573; 608; 660; 681; 764; 810; 855; 906 (+R)	Fu et al. (2002)
										568.5/6.6; 607.9/13.1; 681.2/24.9; 775.2/15.2; 819.7/11.3; 855.4/11.2; 898.5/9.4	Mukadam et al. (2006)



Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ $'$ $''$ )	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/nma)	References
(1216+0922)	SDSS J121628.55+092246.4		12 16 29	09 22 46	11 240 <sup>T</sup>	8.25	18.6 (g)	568.5/16.5; 681.2/27.7; 773.4/12.7; 985.2/4.8	Mukadam et al. (2006)
(J1218+0042) 1215+009		-	12 18 31	00 42 16	11 170 <sup>T</sup>	8.06	18.5 (g)	409.0/30.1; 570.0/24.6; 626.0/21.6; 823.0/45.2; 840.0/42.0; 967.0/20.5	Kepler et al. (2005)
(1222-0243)	SDSS J122229.57-024332.5		12 22 30	-02 43 33	11 380 <sup>T</sup>	8.19	16.7 (g)	100.0/11.0; 152.0/5.1; 175.0/10.0; 258.0-259.0/8.2-16.0	Kepler et al. (2005)
1236-495	BPM 37093		12 38 50	-49 48 00	11 620 <sup>G</sup>	8.69	14.0	198.0/7.3; 396.0/22.0	Kepler et al. (2005)
								600.0/4.0	Kanaan et al. (1992)
								560.0; 583.0; 614.0	Kanaan et al. (1998)
								512.0; 532.0; 548.0; 565.0; 582.0; 608.0; 615.0; 635.0; 649.0	Kanaan et al. (2000)
								511.7; 531.1; 548.4; 564.1; 582.0; 600.7; 613.5; 635.1	Metcalfe et al. (2004)
(1247+310)		-	~ 12 47	~ 31 00	12 110	8.43	17.2	511.7/0.7; 531.1/1.2; 548.4-549.2/0.8-1.1; 562.6/0.9; 565.5-565.9/0.5-1.2; 582.0/1.0; 600.7/0.9; 613.5/1.1; 633.2-633.5/1.1-1.3; 636.7-637.2/0.7-1.7; 660.8/0.5 (iR?)	Kanaan et al. (2005)
1250+041	HS 1249+0426		12 52 15	04 10 43	12 160 <sup>G</sup>	8.21	16.0 (g)	364.6/2.0	Green et al. (2015)
(1255+0211) 1253+024	SDSS J125535.41+021116.0		12 55 35	02 11 16	11 580 <sup>T</sup>	8.15	19.1 (g)	288.9/7.6	Voss et al. (2006)
(J1257+0124) 1254+016	SDSS J125710.50+012422.9		12 57 11	01 24 23	11 490 <sup>T</sup>	8.30	18.7	812.0/16.4; 897.0/31.7; 1002.0/21.7	Kepler et al. (2005)
								905.8/46.7	Castanheira et al. (2006)
1258+013 (1301+0107)	HE 1258+0123		13 01 11	01 07 40	11 420 <sup>G</sup>	8.02	16.3	377.8/6.6; 398.1/6.7; 466.3/8.9; 507.1/8.4; 644.5/21.9; 786.9/8.9; 946.3/10.5; 1070.5/7.9	Romero et al. (2013)
								439.2; 528.5; 744.6; 1092.1	Bergeron et al. (2004)
								628.0/15.2; 882.0/17.6	Kepler et al. (2005)

Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ $'$ $''$ )	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/nma)	References
1307+354		GD 154	13 09 58	35 09 47	11 120 <sup>G</sup>	8.07	15.3	439.2/9.8; 528.5/9.3; 628.0/15.2; 744.6/22.9; 881.5/17.6; 1092.1/14.1	Castanheira & Kepler (2009)
								1186.1 (+C,SH)	Robinson et al. (1978)
								402.6/2.7; 1084.0/5.6; 1088.6/5.0; 1183.5/4.6; 1186.5/16.7; 1190.5/6.3; 1092.1/3.0 (+C,iR)	Pfeiffer et al. (1995) (also in Pfeiffer et al. 1996)
								402.5; 596.1; 597.2; 1125.1; 1129.5; 1133.4; 1271.4 (+C,iR)	Hürkal et al. (2005)
								402.6/3.8; 1085.1/4.2; 1088.5/4.8; 1131.8/4.5; 1156.7/5.3; 1160.7/6.3; 1186.0/7.5; 1191.7/9.1; 1238.2/5.0; 1244.2/4.8 (+C,iR)	Paparó et al. (2013)
(1310-0159) 1307-017		-	13 10 08	-01 59 56	10940 <sup>T</sup>	7.76	17.7 (g)	280.0/6.6-9.2; 310.0/6.4; 349.6/17.6	Kepler et al. (2005)
1321+013	SDSS J132350.28+010304.2		13 23 50	01 03 04	11 380 <sup>T</sup>	8.45	18.5 (g)	495.4/4.1; 549.8/6.7; 590.1/7.1; 612.2/11.9; 636.4/4.8; 671.1/4.4; 698.6/4.3; 831.1/4.6; 884.2/4.1	Kepler et al. (2012)
								432.5/5.1; 497.4/6.4; 525.0/3.6; 550.5/8.6; 564.6/18.3; 590.1/7.1; 603.6/8.3; 612.2/11.9; 636.4/4.8; 656.0/15.3; 675.4/6.4; 698.6/4.3; 731.6/5.2; 831.1/4.6; 884.2/4.1	Romero et al. (2013)
(J1337+0104) 1334+013		-	13 37 14	01 04 44	11 460 <sup>T</sup>	8.64	18.6 (g)	715.0/10.0	Kepler et al. (2005)
(J1338-0023) 1335-001	SDSS J133831.74-002328.0		13 38 32	-00 23 28	11 900 <sup>T</sup>	8.07	17.1 (g)	119.7/1.8; 196.9/4.0	Castanheira et al. (2010)
	(EPIC 229227292)		13 42 12	-07 35 40	11 190	8.02	16.7 (Kp)	289.3; 370.7; 514.1; 800-1250 s	Bell et al. (2016)
1342-237	EC 13429-2342		13 45 46	-23 57 10	11 000 <sup>G</sup>	8.02	16.0	982.0/5.2; 1177.0/6.2	Voss et al. (2006)
(J1345-0055) 1343-006	SDSS J134550.93-005536.5		13 45 51	-00 55 36	11 760 <sup>T</sup>	8.10	16.7 (g)	195.2/5.5; 195.5/3.9; 254.4/2.4 (iR?)	Mukadam et al. (2004)

Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ ' ")	$T_{\text{eff}}$ (K)	$\log g$ (dex)	V (mag)	Period/Amplitude (s/nma)	References
1349+552		LP 133-144	13 51 20	54 57 43	12 150 <sup>G</sup>	7.97	15.7 (g)	209.2; 304.5; 306.9; 327.3	Bergeron et al. (2004)
								140.5/0.7; 179.4/0.7; 179.5/0.4; 179.7/0.5; 209.0/1.2; 209.2/11.8; 209.4/1.1; 270.4/2.2; 270.6/3.8; 270.9/3.7; 305.6/3.3; 305.9/4.2; 306.2/1.3; 327.3/3.0 (+C,iR)	Bognár et al. (2016)
1350+656		G 238-53	13 52 11	65 24 57	12 130 <sup>G</sup>	7.97	15.5	206.0	Fontaine & Wesemael (1984)
(J1354+0108)	SDSS J135459.89+010819.3		13 55 00	01 08 19	11 650 <sup>T</sup>	8.03	16.4 (g)	122.2/2.0	Mullally et al. (2008)
1352+013								127.8/1.5; 173.3/1.1; 198.3/6.0; 291.6/2.2; 322.9/1.9	Mukadam et al. (2004)
(J1355+5454)	SDSS J135531.03+545404.5		13 55 31	54 54 05	11 480 <sup>T</sup>	7.93	18.6 (g)	324.0/21.8	Mullally et al. (2005)
1401-147		EC 14012-1446	14 03 57	-15 01 11	12 020 <sup>G</sup>	8.18	15.7	399.0/13.0; 530.0/15.0; 610.0/57.0; 724.0/21.0; 937.0/11.0 (+C)	Stobie et al. (1995) (amplitudes: Mukadam et al. 2006)
								399.2/7.4; 529.8/13.4; 608.6/7.6; 612.1/36.4; 615.8/11.4; 673.8/2.8; 678.9/6.1; 683.0/3.5; 715.2/11.8; 716.9/7.9; 722.1/44.1; 723.6/10.4; 727.0/5.1; 728.9/9.9; 769.8/43.2; 771.8/9.4; 775.6/5.8; 882.7/3.1; 1217.6/7.7 (+C,iR)	Handler et al. (2008b)
								398.9/12.1; 530.1/16.7; 610.4/54.3; 678.6/7.6; 722.9/22.9; 769.1/51.7; 882.7/2.9; 937.2/11.0; 1217.4/7.5	Castanheira & Kepler (2009)
								350.1/2.0; 398.7/2.1; 399.2/12.7; 433.9/4.7; 528.8/3.8; 529.8/20.7; 530.9/1.5; 537.6/6.4; 563.4/7.2; 612.0/25.7; 615.8/3.1; 645.9/7.9; 657.2/2.2; 705.0/1.2; 805.5/1.2; 865.1/1.9; 905.6/2.2; 979.3/1.7; 1069.1/2.7 (+C,iR)	Provencal et al. (2012)
								821.3; 935.4; 964.7; 1035.4; 1104.2; 1136.5; 1163.2; 1219.8; 1298.9; 1332.9; 1384.9; 1418.4;	Provencal et al. (2012) (average periods 2004-2008)

Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ $'$ $''$ )	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/nma)	References
(1408+0445) 1406+050	SDSS J140859.46+044554.7		14 08 59	04 45 55	10 920 <sup>T</sup>	7.99	17.9 (g)	764.0/11.1; 849.0/24.3; 1038.0/12.0	Kepler et al. (2005)
(J1417+0058) 1414+012	SDSS J141708.81+005827.2		14 17 09	00 58 27	11 000 <sup>T</sup>	8.01	18.0 (g)	812.5/31.5; 894.5/44.0	Mukadam et al. (2004)
1422+095		GD 165	14 24 39	09 17 14	12 220 <sup>G</sup>	8.11	14.3	522.0/14.9; 749.4/17.9; 812.5/32.1; 894.6/42.8; 980.0/11.3	Mukadam et al. (2006)
1429-037			14 24 39	09 17 14	12 220 <sup>G</sup>	8.11	14.3	120.0; 193.0; 240.0; 649.0; 775.0; 870.0; 1316.0; 1820.0 (iC?)	Bergeron & McGraw (1990)
1425-811		L 19-2	14 33 08	-81 20 15	12 070 <sup>G</sup>	8.13	13.0	107.7/0.4; 114.3/0.6; 120.4/6.1; 146.4/0.5; 166.2/0.4; 192.7/4.8; 249.7/0.7; 321.2/0.5 (+R)	Bergeron et al. (1993)
								114.2/0.4; 114.4/0.2; 120.3/1.1; 120.4/5.1; 120.4/1.6; 146.3/0.4; 146.4/0.2; 168.2/0.3; 192.6/2.3; 192.7/2.3; 192.8/0.6; 250.2/0.6; 250.3/0.2 (iR)	Giammichele et al. (2015)
								450.1/10.2; 829.3/18.3; 969.0/12.7; 1084.9/16.3	Silvotti et al. (2005)
								113.6; 192.4	McGraw (1977)
								113.3/0.6; 113.8/2.4; 114.2(?)/0.3; 118.5/2.0; 118.7/1.2; 118.9(?)/0.3; 143.0(?)/0.3; 143.4/0.6; 192.1/0.8; 192.6/6.5; 193.1/0.9; 348.7/0.5;	Odonoghue & Warner (1982)

Chen &amp; Li (2014)

Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ ' ")	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/mm)	References
							350.1/1.1 (iR)		
(J1443+0134) 1440+017	SDSS J144330.93+013405.8		14 43 31	01 34 06	10 450 <sup>T</sup>	7.85	18.7 (g)	113.3/0.3; 113.8/1.8; 118.4/0.3; 118.5/1.6; 118.7/1.2; 143.0/0.3; 143.4/0.4; 143.8/0.2; 192.2/1.2; 192.6/5.5; 193.1/1.0; 348.7/0.3; 350.2/0.9 (iR)	Yeates et al. (2005)
(J1502-0001) 1459+001	SDSS J150207.02-000147.1		15 02 07	-00 01 47	11 090 <sup>T</sup>	7.75	18.7 (g)	313.6/13.1; 418.2/14.9; 581.9/11.1; 629.5/32.6; 687.5/12.0	Mukadam et al. (2004)
(J1524-0030)	SDSS J152403.25-003022.9		15 24 03	-00 30 23	-	-	15.8 (g)	141.0/14.9; 415.0/16.7; 603.0/28.1; 658.0/27.0	Kepler et al. (2005)
								434.0/47.8; 873.2/111.5	Mukadam et al. (2004)
								255.2/17.9; 498.6/21.6; 717.5/28.3; 873.3/110.8	Mukadam et al. (2006)
								340.1/3.5; 400.9/5.4; 427.3/4.4; 503.2/8.4; 505.1/5.2; 505.5/10.1; 507.4/10.9; 578.6/5.9; 582.0/5.1; 620.8/5.8; 665.5/4.2; 780.3/9.4; 833.1/25.7; 840.5/9.4; 877.7/6.8 (+C,iR)	Handler et al. (2008a)
1526+558		-	15 28 09	55 39 15	10 860 <sup>G</sup>	7.73	17.1 (B)	648.9/36.8	Green et al. (2015)
-	HS 1531+7436		15 30 35	74 26 04	13 270 <sup>G</sup>	8.49	16.4	112.5/4.2	Voss et al. (2006)
(J1533-0206)	SDSS J153332.96-020655.7		15 33 33	-02 06 56	11 390 <sup>T</sup>	8.04	16.4 (g)	257.8/4.3; 260.6/5.3	Castanheira et al. (2006)
1541+650	PG 1541+650		15 41 45	64 53 53	11 560 <sup>G</sup>	8.12	15.6 (g)	467.0/3.0; 564.0/15.0; 689.0/45.0; 757.0/14.0 (+C)	Vauclair et al. (2000)
1559+369	Ross 808		16 01 23	36 48 35	11 120 <sup>G</sup>	7.98	14.4	833.0	McGraw & Robinson (1976)
								404.5/2.1; 511.3/4.6; 745.1/4.2; 796.3/3.8; 877.9/4.3; 907.6/5.9; 956.5/3.5; 1079.1/2.6	Castanheira & Kepler (2009)

Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ $'$ $''$ )	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/nmma)	References
1607+205		-	16 09 44	20 23 11	11 140 <sup>G</sup>	7.81	17.4	1928.5/1.8	Green et al. (2015)
(J1612+0830)	SDSS J161218.08+083028.1		16 12 18	08 30 28	12 030	8.46	17.8 (g)	404.5/2.0; 511.3/4.5; 629.2/1.9; 632.2/3.4; 745.1/4.0; 796.3/4.0; 842.7/2.8; 860.2/3.5; 875.1/3.7; 878.5/3.6; 898.7/3.6; 908.4/7.6; 911.5/3.2; 914.7/3.9; 915.8/5.5; 922.5/3.4; 952.4/3.4; 960.5/3.7; 1011.4/2.5; 1040.1/3.3; 1042.1/2.9; 1066.7/2.2; 1091.1/2.4; 1144.0/2.5; 2459.1/2.2 (+C,iR)	Thompson et al. (2009)
(J1617+4324)	SDSS J161737.63+432443.8		16 17 38	43 24 44	11 070 <sup>T</sup>	8.07	18.4 (g)	115.2/5.1; 117.2/4.1	Castanheira et al. (2013)
(J1618-0023)	SDSS J161837.25-002302.7		16 18 37	-00 23 03	10 860	8.16	19.3 (g)	626.3/15.4; 661.7/21.2; 889.7/36.6	Mukadam et al. (2004)
1616-002								644.0/5.4	Mukadam et al. (2006)
-	HS 1625+1231		16 28 13	12 24 53	11 690 <sup>G</sup>	8.06	16.1 (g)	626.3/15.4; 661.7/21.2; 889.7/36.6	Mukadam et al. (2006)
(J1641+3521)	SDSS J164115.61+352140.6		16 41 16	35 21 41	11 230	8.43	19.1	385.2/17.0; 533.6/23.6; 862.9/48.9	Voss et al. (2006)
1647+591	G 226-29		16 48 26	59 03 23	12 510 <sup>G</sup>	8.35	12.2	809.3/27.3	Castanheira et al. (2006)
(J1650+3010)	SDSS J165020.53+301021.2		16 50 21	30 10 21	10 830 <sup>T</sup>	8.43	18.1 (g)	109.1/3.0; 109.3/1.0; 109.5/3.0 (iR)	Kepler et al. (1983)
1659+662	GD 518		16 59 15	66 10 33	11 760 <sup>G</sup>	8.97	16.5 (B)	109.1/2.5; 109.3/1.1; 109.5/2.8 (iR)	Kepler et al. (1995b)
(J1700+3549)	SDSS J170055.38+354951.1		17 00 55	35 49 51	11 230 <sup>T</sup>	7.94	17.3 (g)	339.1/14.7	Castanheira et al. (2007)
(J1711+6541)	SDSS J171113.01+654158.3		17 11 13	65 41 58	11 130 <sup>T</sup>	8.47	16.9 (g)	440.2; 513.2; 583.7; 0.8-4.1mma	Hermes et al. (2013a)
1711+657								450.5/19.3; 893.4/54.7; 955.3/20.4	Mukadam et al. (2004)
								552.6/9.3; 893.4/54.3; 955.3/20.3; 1164.4/11.4	Mukadam et al. (2006)
								606.3/5.2; 690.2/3.3; 1248.2/3.2	Mukadam et al. (2004)
								234.0/1.2; 606.3/5.2; 690.2/3.3; 1248.2/3.2	Mukadam et al. (2006)
								214.3/1.7; 561.5/3.0; 612.6/5.7;	Mukadam et al. (2006)

Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ $'$ $''$ )	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/nma)	References
1714-547		BPM 24754	17 19 02	-54 45 54	10840 <sup>G</sup>	7.93	15.6				978.0-1176.0/22.6-6.1	Giovannini et al. (1998)
(J1724+5835) 1723+586	SDSS J172428.42+583539.0		17 24 28	58 35 39	11 640 <sup>T</sup>	7.88	17.6 (g)				643.7; 1045.1; 1234.1; 1356.6	Romero et al. (2012)
(J1732+5905) 1731+591	SDSS J173235.19+590533.4		17 32 35	59 05 33	10 770 <sup>T</sup>	7.97	18.7 (g)				189.2/3.2; 279.5/8.3; 337.9/5.9	Mukadam et al. (2004)
-		HS 1824+6000	18 24 44	60 02 00	11 520 <sup>G</sup>	7.73	15.7 (B)				1122.4/10.2; 1248.4/22.5	Mukadam et al. (2004)
1855+338		G 207-9	18 57 30	33 57 25	12 080 <sup>G</sup>	8.37	14.6				1090.0/8.0; 1336.0/7.8	Mukadam et al. (2006)
-		(KIC 7594781)	19 08 36	43 16 42	11 730	8.11	18.6 (g)				294.3/8.8; 384.4/3.3; 304.4/7.7; 329.6/13.6	Voss et al. (2006)
-		(KIC 10132702)	19 13 41	47 09 31	11 940	8.12	18.8 (g)				173.7; 224.7; 225.1; 286.1; 320.9; 363.5	Steinfadt et al. (2008)
(J1916+3938)		KIC 4552982	19 16 44	39 38 50	11 130	8.34	17.7				259.1; 292.0; 318.0; 557.4; 738.6 (iC?)	Robinson & McGraw (1976)
											129.4/1.1; 196.1/1.3; 290.9/1.1; 291.9/11.0; 292.9/1.7; 305.2/0.4; 317.8/0.5; 595.7/2.2; 599.8/1.2; 623.8/1.2; 626.8/0.9 (+C,iR)	Bognár et al. (2016)
											283.8/17.8	Greiss et al. (2016)
											853.5/28.1	Greiss et al. (2016)
											823.9/3.8; 834.1/3.2; 934.5/3.6; 968.9/4.4; 1089.0/2.5; 1169.9/2.3; 1436.7/2.4	Hermes et al. (2011)
											360.5/0.16; 361.6/0.16; 362.6/0.94; 788.2/0.05; 828.3/0.14; 866.1/0.16; 907.6/0.14; 950.5/0.16; 982.2/0.09; 1014.2/0.08; 1053.7/0.06; 1100.9/0.05; 1158.2/0.07; 1200.2/0.04; 1244.7/0.05; 1289.2/0.11; 1301.7/0.08; 1333.2/0.07; 1363.0/0.07; 1498.3/0.08 (iR)	Bell et al. (2015a)
-		(KIC 4357037) SDSS J191719.16+392718.8	19 17 19	39 27 19	10 950	8.11	18.2 (g)				323.4/13.0	Greiss et al. (2016)

Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ ' '')	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/nma)	References
-		KIC 8293193	19 17 55	44 13 26	12 650	8.01	18.4 (g)	310.9/27.9	Greiss et al. (2016)
-		KIC 11911480	19 20 25	50 17 22	12 160	7.94	18.1 (g)	172.9; 173.0; 202.5; 202.6; 259.1; 259.3; 259.4; 290.6; 290.8; 291.0; 324.1; 324.3; 324.5; 0.9–21.8nma (+C,iR)	Greiss et al. (2014)
-		(KIC 4362927)	19 23 49	39 29 33	11 140	7.84	19.4 (g)	723.6/25.3	Greiss et al. (2016)
1935+276		G 185-32	19 37 14	27 43 19	12 470 <sup>G</sup>	8.10	13.0	70.8; 141.4; 215.1 (iC,SH?)	McGraw et al. (1981)
								70.9/1.8; 72.5/1.2; 141.8/1.6; 215.7/2.7; 300.0/1.9; 301.3/1.9; 370.1/2.2; 560.0/1.7	Kepler et al. (2000)
								72.5/0.9; 72.9/0.4; 141.2/0.4; 141.9/1.4; 181.9/0.03; 212.8/0.5; 215.7/1.9; 264.2/0.5; 266.2/0.4; 299.8/1.0; 301.4/1.1; 370.2/1.6; 454.6/0.4; 537.6/0.6; 651.7/0.7 (+C,iR?)	Castanheira et al. (2004)
		(KIC 9162396)	19 39 07	45 33 34	11 070	8.06	18.5 (g)	72.6/0.7; 141.9/1.5; 215.7/1.9; 301.6/1.5; 370.2/1.3 (+C)	Thompson et al. (2004)
		(KIC 7766212)	19 44 06	43 27 22	11 890	8.01	16.8 (g)	766.0/14.1	Greiss et al. (2016)
		(KISJ1945+4455)	19 45 42	44 55 11	11 590	8.04	17.2 (g)	322.0/6.7	Greiss et al. (2016)
1950+250		GD 385	19 52 28	25 09 29	11 820 <sup>G</sup>	8.07	15.1	255.9/19.0	Greiss et al. (2016)
								178.9; 228.8; 254.3; 273.0; 386.4; 535.6; 648.9 (+C)	Fontaine et al. (1980)
								126.0/3.3; 172.0/4.3; 192.0/6.5; 252.0/17.4; 546.0/11.9; 691.5/17.4 (iC?)	Vauclair & Bonazzola (1981)
1959+059		GD 226	20 02 13	06 07 38	10 730 <sup>G</sup>	8.06	16.4	128.1/3.7; 256.1/11.4; 256.3/10.9 (iR?)	Kepler (1984)
								1350.4/5.7	Voss et al. (2007)



Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ ' ")	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/nma)	References
2102+233		-	21 04 53	23 33 22	12040	8.36	15.9 (g)	$\sim 800.0/26.0$	Sayres et al. (2012)
(J2128-0007)	SDSS J212808.49-000750.8		21 28 08	-00 07 51	11 420 <sup>T</sup>	8.24	18.0	274.9/11.0; 289.0/9.7; 302.2/17.1	Castanheira et al. (2006)
(J2135-0743) 2132-079	SDSS J213530.32-074330.7		21 35 30	-07 43 31	10900 <sup>T</sup>	7.96	18.7	281.8/13.3; 299.9/22.9; 323.2/13.0; 510.6/16.8; 565.4/49.8	Castanheira et al. (2006)
-	SDSS J214723.73-001358.4		21 47 24	-00 13 58	11 990	7.92	19.1	199.8/3.9	Castanheira et al. (2010)
2148+539	G 232-38		21 49 59	54 08 39	11 590 <sup>G</sup>	8.02	16.4	741.6; 984.0; 1147.4	Gianninas et al. (2005)
2148-291		-	21 51 40	-28 56 53	11 490 <sup>G</sup>	8.06	15.9	260.8/12.6	Gianninas et al. (2006)
2151-077	SDSS J215354.11-073121.9		21 53 54	-07 31 22	11 910 <sup>T</sup>	8.27	18.7	210.2/5.6	Castanheira et al. (2006)
-	SDSS J215628.26-004617.2		21 56 28	-00 46 17	10 680 <sup>T</sup>	8.01	18.3 (g)	1234.0/31.4; 1478.0/27.0	Gentile Fusillo et al. (2016)
(J2159+1322)	SDSS J215905.52+132255.7		21 59 06	13 22 56	11 370 <sup>T</sup>	8.69	18.9 (g)	683.7/11.7; 801.0/15.1	Mullally et al. (2005)
(J2208+0654)	SDSS J220830.02+065448.7		22 08 30	06 54 49	11 100	8.49	17.9 (g)	668.1/4.1; 757.2/4.4	Castanheira et al. (2013)
(J2209-0919)	SDSS J220915.84-091942.5		22 09 16	-09 19 43	11 630 <sup>T</sup>	8.30	18.4 (g)	447.9/10.8; 789.3/10.4; 894.7/43.9	Castanheira et al. (2010)
(J2214-0025)	SDSS J221458.37-002511.7		22 14 58	-00 25 12	11 650 <sup>T</sup>	8.30	17.9 (g)	195.2/6.1; 255.2/13.1	Mullally et al. (2005)
(J2231+1346)	SDSS J223135.71+134652.8		22 31 36	13 46 53	11 060 <sup>T</sup>	7.89	18.7	382.4/14.6; 548.7/13.7; 619.7/18.9; 627.0/26.3; 707.5/17.1	Castanheira et al. (2006)
-	SDSS J223726.86-010110.9		22 37 27	-01 01 11	11 380 <sup>T</sup>	7.97	18.9 (g)	392.3/44.7; 774.4/80.1	Gentile Fusillo et al. (2016)
2254+126	GD 244		22 56 46	12 52 50	11 760 <sup>G</sup>	8.09	15.6	307.0; 294.6; 256.3; 203.3 (+C)	Fontaine et al. (2001)
2303+242	PG 2303+242		23 06 18	24 32 08	11 500 <sup>G</sup>	8.07	15.5	203.0/4.0; 256.2/6.7; 256.6/12.3; 306.6/5.0; 307.1/20.2; 906.1/1.7 (+C,iR)	Yeates et al. (2005)
								570.7/8.0; 623.4/15.0; 675.4/8.0; 794.5/56.0; 900.5/16.0 (+C,iR)	Vauclair et al. (1987)
								210.9/1.4; 227.5/1.4; 234.5/1.3; 254.2/1.2; 279.1/1.4; 299.5/1.4; 380.1/1.2; 394.3/8.4; 434.0/1.6; 453.2/2.5; 462.8/1.6; 482.6/5.8; 539.8/4.7; 577.9/11.9; 611.3/5.8;	Vauclair et al. (1992)

Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ $'$ $''$ )	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/nma)	References
							682.6/1.2; 707.7/1.2; 758.5/1.6; 835.9/2.9; 955.3/3.5; 1043.5/2.1; 1241.2/3.1 (+C)		
							206.1/2.3; 211.3/2.1; 234.1/3.2; 261.8/2.3; 322.5/3.1; 390.7/2.8; 394.4/7.3; 452.2/2.2; 578.1/2.8; 616.4/31.3; 654.6/2.5; 656.0/2.7; 671.6/2.2; 711.5/2.0; 776.6/2.5; 852.3/6.1; 857.8/4.9; 863.8/7.4; 873.2/3.9; 965.3/19.7; 1066.1/2.2; 1705.0/1.6; 2046.7/3.1; 2234.6/3.3 (+C,iR)		Pakštienė et al. (2011)
-	SDSS J230726.66-084700.3		23 07 27	-08 47 00	10 970 <sup>T</sup>	8.21	18.9	617.0/12.5; 1212.2/25.6	Castanheira et al. (2006)
2326+049		G 29-38	23 28 48	05 14 54	11 910 <sup>G</sup>	8.17	13.0	612.9; 677.0; 824.7; 930.9; 1015.5 (+C) 283.8; 615.2	McGraw & Robinson (1975) Winget et al. (1990)
							186.1/25.0; 242.9/31.5; 267.9/32.6; 614.9/119.5		Patterson et al. (1991)
							284.0; 400.4; 500.0; 615.0 (+C,R)		Kleinman (1995)
							110.0; 177.0; 237.0; 284.0; 355.0; 400.0; 500.0; 552.0; 610.0; 649.0; 678.0; 730.0; 771.0; 809.0; 860.0; 894.0; 915.0; 1147.0; 1240.0 (+C,R)		Kleinman et al. (1998)
							218.7/1.5; 283.9/4.8; 363.5/4.7; 400.5/9.1; 496.2/7.9; 614.4/32.8; 655.1/6.1; 770.8/5.1; 809.4/30.1; 859.6/24.6; 894.0/14.0; 1150.5/3.6; 1185.6/3.4; 1239.9/1.9 (+C,R)		Castanheira & Kepler (2009) (mean values from different observing campaigns)
(J2334+0103)	SDSS J233458.71+010303.1		23 34 59	01 03 03	11 400	7.99	19.2 (g)	923.2/40.4	Castanheira et al. (2007)
2336-079		GD 1212	23 38 51	-07 41 20	10 970 <sup>G</sup>	8.03	13.3	1160.7/5.4	Gianninas et al. (2006)
							369.8/0.2; 371.1/0.1; 828.2/0.5; 843.0/0.5; 849.1/0.2; 857.5/0.5; 871.1/0.2; 956.9/0.2; 987.0/1.0;		Hermes et al. (2014)

Table 4: continued.

WD	Identifiers	Other	RA (h m s)	DEC ( $^{\circ}$ ' '')	$T_{\text{eff}}$ (K)	$\log g$ (dex)	$V$ (mag)	Period/Amplitude (s/mma)	References
2347+128		G 30-20	23 49 53	13 06 13	11 150 <sup>G</sup>	8.01	16.1	1008.1/0.3; 1025.3/0.5; 1048.2/0.1; 1063.1/0.6; 1086.1/0.2; 1098.4/1.0; 1125.4/0.2; 1147.1/0.5; 1166.7/0.2; 1180.4/0.9; 1190.5/2.1; 1220.8/0.2 (+C)	Mukadam et al. (2002)
(J2350-0054)	SDSS J235040.72-005430.9		23 50 41	-00 54 31	10 290 <sup>T</sup>	8.14	18.1 (g)	273.3/6.2; 304.3/17.0; 391.1/7.5	Mukadam et al. (2004)
2348-244	EC 23487-2424		23 51 22	-24 08 17	11 560 <sup>G</sup>	8.09	15.5 (B)	206.7/3.2; 273.3/6.3; 304.3/17.0; 391.1/7.5	Mukadam et al. (2006)
								804.5/19.3; 868.2/12.8; 989.3/11.0; 993.0/37.7 (+C)	Stobie et al. (1993)
								508.1/15.0; 878.8/34.0	Thompson et al. (2005)

**Notes.** (<sup>G</sup>) The effective temperature ( $T_{\text{eff}}$ ) and surface gravity ( $\log g$ ) values are provided by Gianninas et al. (2011), and then corrected according to the results of Tremblay et al. (2013). (<sup>T</sup>) The effective temperature ( $T_{\text{eff}}$ ) and surface gravity ( $\log g$ ) values are provided by Tremblay et al. (2011), and then corrected according to the results of Tremblay et al. (2013).

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