

Bibliographic catalogue of stellar radial velocities: (1991-1994)*

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Abstract. We present a bibliographic catalogue of stellar radial velocities with 13359 entries for stars in the galaxy and the Magellanic Clouds, obtained from the issues of several journals published in the period 1991-1994. We have tried to follow the structure of previous compilations although we have relied on data retrieved from the SIMBAD database.

Key words: catalogues — stars: kinematics — techniques: radial velocities

covering 5 years each (see Barbier & Petit 1986; Barbier & Petit 1990; and Barbier et al. 1994). These three catalogues include more than 45 000 entries.

We are presenting in the present catalogue the bibliographic references of stellar radial velocities published between 1991 and 1994. The data for the period 1995-1998 will come soon, and we hope to maintain the compilation with yearly updates. The catalogue can be downloaded via ftp from the WEB page of the Complejo Astronómico El Leoncito (www.casleo.secyt.gov.ar). In the future it will be possible to download this catalogue from the CDS database (Strasbourg).

1. Introduction

The present catalogue is the first compiled at the Complejo Astronómico El Leoncito and it is intended to be a continuation of previous compilations of bibliographies of stellar radial velocities. The first one was done by Abt & Biggs (1972), who included the bibliography published before 1970. M. Barbier continued with the cataloguing for the period 1971-1990. She published the bibliographic references in three separate catalogues,

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* Catalogue available at the CDS via anonymous ftp to [cdsarc.u-strasbg.fr](ftp://cdsarc.u-strasbg.fr) (130.79.128.5) or via <http://cdsweb.u-strasbg.fr/Abstract.html>

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2. Description of the catalogue

We have revised the issues of the journals listed in Table 11, for the period 1991-1994. It is not a complete list of all journals devoted to astronomical literature, but they are the most important ones and those available at our libraries.

We prepared a plain ASCII file with the object identifications as provided by the authors. This file was transferred to the SIMBAD¹ database, and, using the proper formats and filters, we have retrieved the identification for each object according to the rules of SIMBAD (Egret 1996); see also Lortet et al. (1986). In the same way we have also retrieved: the J2000 coordinates, the *V* magnitude, and the spectral classification for each object.

The different columns of the catalogue are described as follows:

Column 1 (bytes 1 to 30): Identification. We have preferred for identification the HD, CD or CPD numbers,

¹ Operated by the CDS at Strasbourg, France.

Table 1. Revised journals

Journal	Abbreviation
Acta Astronomica	AA
Astronomy & Astrophysics	AAP
Astronomy and Astrophysics Suppl. Series	AAPS
Astronomical Journal	AJ
Astrophysical Journal	APJ
Astrophysical Journal Suppl. Series	APJS
Bulletin of the Astronomical Institutes of Czechoslovakia	BAIC
International Astronomical Union Symposium	IAUS
Information Bulletin on Variable Stars	IBVS
The Messenger	MES
Monthly Notices of the Royal Astronomical Society	MN
Monthly Notices of the Astronomical Society of South Africa	MNAS
Memorie della Società Astronomica Italiana	MSAI
The Observatory	OBS
Publications of the Astronomical Society of Japan	PASJ
Publications of the Astronomical Society of the Pacific	PASP
Journal of the Royal Astronomical Society of Canada	RASC
Revista Mexicana de Astronomía y Astrofísica	RMAA
Soviet Astronomy	SA
Vistas in Astronomy	VA

in that order. Stars in clusters are indicated with the cluster's name and the number of the stars according to the primary identification paper for that particular cluster, found either at SIMBAD or Mermilliod's database (which was accessed through the WEB of the Geneva Observatory).

Column 2 (bytes 31 to 37): Right ascension for J2000.0. It is given to the tenth of a minute and has been retrieved from SIMBAD.

Column 3 (bytes 44 to 49): Declination for J2000.0. It is given to the minute and has been retrieved from SIMBAD.

Column 4 (bytes 56 to 63): Visual magnitude. It has been retrieved from SIMBAD.

Column 5 (bytes 65 to 76): Spectral type and luminosity class. They have been retrieved from the SIMBAD database. In some cases, when the number of symbols is large, the spectral type has been truncated.

Column 6 (bytes 83 to 89): Radial velocity. For each object we have included the average radial velocity provided by the author. If the number of radial velocity measurements is more than 1, and an average has not been calculated by the author, we have not included any radial velocity at all. If the star is a spectroscopic binary, for which an orbit has been computed, then the systemic radial velocity is quoted in this column.

Column 7 (bytes 98 to 100): Number of individual observations for a particular object.

Column 8 (bytes 107 to 110): Comments. We have included in this column an acronym to indicate the nature of the star, when mentioned by the author. Acronyms are as follows:

CEPH: Cepheids.

ORB: An orbit has been computed. The radial velocity in Col. 6 is the systemic radial velocity.

SB1: Single lined binary.

SB2: Double lined binary.

EM: Emission lines. The radial velocity is derived from emission lines.

SB: Spectroscopic binary.

CV: Cataclysmic variable.

VAR: Star with variable radial velocity, according to the author.

LMC: Star belonging to the Large Magellanic Cloud.

STND: Radial velocity standard.

CONST: Star with constant radial velocity, according to the author.

SYMB: Symbiotic star.

BMP: Blue metal poor star.

VB: Visual binary.

Column 9 (bytes 115 to 120): Dispersion, resolving power or resolution. We have included in this column one of the above parameters. It is not possible to confuse the resolving power with any of the other two parameters because, in general, resolving power is a relatively large number compared with dispersion or resolution. As in the case of the dispersion or resolution, an ambiguity may arise, we have added an R to the number when it refers to the resolution. The acronym COR in this column means that the radial velocity was derived through cross correlation techniques (like Coravel, for example) while REL means a relative velocity, SEV means that more than one resolving power or resolution have been used, OP means objective prism observations, and IUE means that the radial

Table 2. Sample page of the bibliographic catalogue

Identification	2000.0 coord.	V	ST	RV	N	Rem	D/RP/R	Reference
G 7-2	04 05.5 +11 03	11.64	K0	-86.1	25		22500	AJ 107, 2240-1994
HD 25408	04 05.9 +61 48	7.60		Rvar...	4		SEV	AJ 104, 1585-1992
G 160-45	04 06.5 -17 08		M:	+77			SEV	AJ 101, 1835-1991
HD 25642	04 06.6 +50 21	4.29	A0IVn					PASP103, 1176-1991
HD 25425	04 06.6 +65 31	6.17	A3m	-3.8	2		60000	AAP 280, 486-1993
BD+53 733	04 07.0 +54 11	9.1	F5	-41.0	11		22500	AJ 107, 2240-1994
PPM - 14	04 07.4 +11 14						COR	AAP 285, 943-1994
HD 25893	04 07.6 +38 05	7.08	G5		12		COR	AAPS 88, 281-1991
HD 25893	04 07.6 +38 05	7.08	G5	+26.5	11		SEV	APJ 403, 708-1993
BD+37 878A	04 07.6 +38 05	7.3	K2	+26.9	8		22500	AJ 107, 2240-1994
HD 25998	04 08.6 +38 03	5.50	F7V		7		COR	AAPS 88, 281-1991
HD 25940	04 08.7 +47 43	4.04	B3Ve	+11.4	14		39	APJ 393, 666-1992
HD 26292	04 09.7 +03 19	6.5	F2	-2.7	5		20	APJS 94, 677-1994
HD 26200	04 10.4 +39 14	6.99	F0	-53.4	5		20	APJS 94, 677-1994
HD 283420	04 10.6 +25 22	8.8	F8	+15.30	2		COR	AAP 255, 130-1992
G 221-29	04 10.7 +74 22	14.88	DA:	-20.5	9		22500	AJ 107, 2240-1994
HD 26254	04 11.0 +40 45	8.3	A2	+16	3		80	AAPS 94, 479-1992
HD 26285	04 11.2 +41 45	7.0	K0	+58	5		80	AAPS 94, 479-1992
V* XY Eri	04 11.3 -13 51	?		+221	3		SEV	AJ 108, 1016-1994
HD 26321	04 11.4 +40 55	7.2	A2	+27	5		80	AAPS 94, 479-1992
HD 26310	04 11.4 +41 52	8.54	F8	+30	2		80	AAPS 94, 479-1992
HD 26584	04 11.9 -08 50	6.5	G5	+39.4	5		20	APJS 94, 677-1994
HD 284163	04 11.9 +23 38	9.35	K0			SB2	32000	APJ 415, 150-1993
HD 26395	04 12.3 +42 54	8.2	F4V...	+27	3		80	AAPS 94, 479-1992
HD 276122	04 12.5 +42 00	10.5	K0	+1.9	15		22500	AJ 107, 2240-1994
HD 26342	04 12.8 +54 25	7.8	F0	-22	3		80	AAPS 94, 479-1992
HD 26569	04 14.0 +42 35	8.0	F0	+14	3		80	AAPS 94, 479-1992
HD 283447	04 14.2 +28 13	10.5	K2	+2.4	7			APJ 432, 373-1994
V* CW Tau	04 14.3 +28 11	14.6	K5V:e...	+6	2		10000	AJ 103, 549-1992
V* CW Tau	04 14.3 +28 11	14.6	K5V:e...	+20.6	3			APJS 93, 485-1994
HD 26512	04 14.4 +54 31	7.1	A0	-10	6		80	AAPS 94, 479-1992
HD 284248	04 14.6 +22 21	9.2	F2	+331			SEV	AJ 101, 1835-1991
BD-06 855	04 14.9 -05 38	10.6	G:...	+296.2	22		22500	AJ 107, 2240-1994
HD 26702	04 14.9 +37 33	6.3	G5	-9.0	5		20	APJS 94, 677-1994
HD 26913	04 15.4 +06 12	6.93	G5IV	-9.9			COR	AJ 105, 226-1993
HD 26923	04 15.5 +06 11	6.30	G0IV	-9.1			COR	AJ 105, 226-1993
HD 26912	04 15.5 +08 54	4.2	B3IV	+14.9	16		COR	AJ 101, 1495-1991
HD 26581	04 15.5 +58 3	8.6	K0	+23.4	7		22500	AJ 107, 2240-1994
HD 26746	04 15.6 +41 52	7.8	F0	+59	5		80	AAPS 94, 479-1992
G 7-31	04 15.9 +07 54	11.5	?	+29.5	5		22500	AJ 107, 2240-1994
HD 27290	04 16.0 -51 29	4.20	F4III	+26.6	9		1.9	MN 267, 103-1994
G 175-25	04 16.2 +54 57	13.4		-59.6	11		22500	AJ 107, 2240-1994
BD+50 961	04 16.6 +50 38	9.5	Ce 3				SEV	AJ 104, 1585-1992
HD 26764	04 16.7 +53 3	5.19	A2Vn	-24	5		80	AAPS 94, 479-1992
BD+47 965	04 17.3 +47 24	9.93	A3	+5	6		SEV	AJ 108, 1016-1994

velocities were derived from observations obtained with the International Ultraviolet Explorer.

Column 10 (bytes 123 - 139): Bibliographic reference. This column includes the bibliographic reference of the paper in which the radial velocities were published. Journal designations are abbreviated as shown in Table 1.

The stars in the catalogue are ordered by increasing right ascension. For a number of objects, we failed in obtaining an identification from the SIMBAD database. If

the authors published coordinates for them, we used the designations and coordinates (precessed to J2000) provided in the reference. There are, however, 681 entries for which we have failed in obtaining an identification from SIMBAD and there are no coordinates published by the authors. These objects have been listed at the end of the catalogue in the last 681 lines. They will be merged with the rest of the identified objects as soon as we are able to find coordinates for them.

Table 2 shows a page of the printed version of the catalogue.

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