

Bibliographic catalogue of stellar radial velocities: (1991 – 2007)

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The present catalogue is the 15th version and the continuation of the first one (1991-1994) published by Malaroda et al. (2000) (A&AS, 144,1). Since the 2005 version, we present the catalogue in a database for helping the search.

We have revised the issues of the journals listed in Table 1, for the period 1991-2007. 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 SIMBAD database, and, using the proper formats and filters, we have retrieved the identification for each object according to the rules of SIMBAD.

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, 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 Mermillod's database (which was accessed through the WEB of the Geneva Observatory).

Columns 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 60): Visual magnitude. It has been retrieved from SIMBAD.

Column 5 (bytes 61 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 77 to 88): 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 97 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:

BDs BROWN DWARFS

BHB BLUE HORIZONTAL BRANCH

BMP BLUE METAL POOR STARS

BMPs BINARY MILLISECOND RADIOPULSARS

CEMPs CARBON-ENHANCED METAL POOR STARS

CEPH CEPHEIDS

CONST CONSTANT RADIAL VELOCITY

CV CATAclysmic VARIABLE

DBL DOUBLE LINE

EB ECLIPSING BINARY

EBx ECLIPSING X-RAY BINARIES

eHe HELIUM STARS

EM EMISSION LINES

FS FLARE STAR

FUSE FAR ULTRAVIOLET SPECTROSCOPIC EXPLORER

HMX-SB HIGH MASS X-RAY BINARY

LMC LARGE MAGELLANIC CLOUDS

LMXBs LOW-MASS X-RAYS BINARIES

LPVs LONG PERIOD VARIABLE STARS

LSR LOCAL STANDARD OF REST

LWSB LINE-WIDTH BINARY

MXRBS MASSIVE X-RAY BINARY SYSTEMS

ORB ORBITAL ELEMENTS COMPUTED

PAGB POST ASYMPTOTIC

PCEB POST-COMMON-ENVELOPE BINARIES

PMS PRE-MAIN SEQUENCE STAR

PN PLANETARY NEBULA

RRLyr RR LYRAE STAR

RV Tau RV TAURI STARS

SB SPECTROSCOPIC BINARY

SBx X-RAY BINARY

SB1 SINGLE LINED BINARY

SB2 DOUBLE LINED BINARY

SB? SUSPECTED BINARY STAR
sdB SUBDWARF BLUE
sdO SUBDWARF O STAR
SDSS SLOAN DIGITAL SKY SURVEY
SMC SMALL MAGELLANIC CLOUDS
SRd SEMIREGULAR VARIABLES
SS SUPER SOFT X RAY SB
STND RADIAL VELOCITY STANDARD
SYMB SYMBIOTIC STAR
SXT SOFT X-RAY TRANSIENTS
T TAU T TAURI STAR
TRI TRIPLE SYSTEM
VAR VAR RADIAL VELOCITY
VB VISUAL BINARY
VLM VERY LOW-MASS STARS
WD WHITE DWARF
XRN X-RAY NOVAE

Column 9 (bytes 115 to 119): 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, DIF means differential velocity, SEV means that more than one resolving power or resolution have been used, OP means objective prism observations, IUE means that the radial velocities were derived from observations obtained with the International Ultraviolet Explorer, AST means astrometric radial velocities, RAD means radial velocities determined through radio astronomy, FUSE means Ultraviolet Spectroscopic Explorer and EUVE Extreme 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 identification from SIMBAD database. If the authors published coordinates for them, we used the designations and coordinates (precessed to J2000) provided in the reference. In this new version there are 1470 entries without coordinates in SIMBAD database.

These objects have been listed at the end of the catalogue and they will be merged with the rest of the identified objects as soon as we are able to find coordinates for them. The 1991-2007

version has 113658 entries. The version 91-96 had 23,358 entries. In the last ten years, the number of entries increased by a factor of near five.

Table 1

AcA	ACTA ASTRONOMICA
A&A	ASTRONOMY AND ASTROPHYSICS
A&AS	ASTRONOMY AND ASTROPHYSICS SUPPLEMENT SERIES
AJ	ASTRONOMICAL JOURNAL
ApJ	ASTROPHYSICAL JOURNAL
ApJS	ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES
ASPC	ASTRONOMICAL SOCIETY OF THE PACIFIC CONFERENCE SERIES
fesc.book	ASPC 13, 1991
cadm.conf	ASPC 32, 1992
nfbs.proc	ASPC 38, 1993
pvnf.conf	ASPC 44, 1993
gcfg.work	ASPC 48, 1993
lahr.conf	ASPC 81, 1995
oedb.conf	ASPC 90, 1996
hds..conf	ASPC 96, 1996
psrv.conf	ASPC 185, 1999
bpet.conf	ASPC 214, 2000
AstL	ASTRONOMY LETTERS (1993-...)
ARep	ASTRONOMY REPORTS (1994-...)
BAIC	BULLETIN OF THE ASTRONOMICAL INSTITUTES OF CZECHOSLOVAKIA (1991)
ChA&A	CHINESE ASTRONOMY AND ASTROPHYSICS (1991-...)
IAUS	INTERNATIONAL ASTRONOMICAL UNION SYMPOSIUM
IBVS	INFORMATION BULLETIN ON VARIABLE STARS
JAD	THE JOURNAL OF ASTRONOMICAL DATA (1995-...)
JApA	JOURNAL OF ASTROPHYSICS AND ASTRONOMY
JRASC	JOURNAL OF THE ROYAL ASTRONOMICAL SOCIETY OF CANADA
MES	THE MESSENGER
MNRAS	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
MNAS	MONTHLY NOTICES OF THE ASTRONOMICAL SOCIETY OF SOUTH AFRICA
MSAI	MEMORIE della SOCIETA ASTRONOMICA ITALIANA
NewA	NEW ASTRONOMY (1996-...)
NewAR	NEW ASTRONOMY REVIEWS (1998-...)
Obs	THE OBSERVATORY
PASJ	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN
PASP	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF PACIFIC

PAZh PIS MA ASTRONOMISCHESKII ZHURNAL (1991-1992)
PSYMB&RS PHYSICAL PROCESSES IN SYMBIOTIC BINARIES AND RELATED SYSTEMS
ARSC JOURNAL OF THE ROYAL ASTRONOMICAL SOCIETY OF CANADA
RMxAA REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA
RMSC REVISTA MEXICANA SERIE CONFERENCIAS
SA SOVIET ASTRONOMY (1991-1993)
SvAL SOVIET ASTRONOMY LETTERS (1991-1992)
VA VISTAS IN ASTRONOMY

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