



HAL
open science

Orbital elements of double stars: ADS 5447 and ADS 8035

Marco Scardia, Jean-Louis Prieur, Eric Aristidi, Laurent Koechlin, Marco Sala

► **To cite this version:**

Marco Scardia, Jean-Louis Prieur, Eric Aristidi, Laurent Koechlin, Marco Sala. Orbital elements of double stars: ADS 5447 and ADS 8035. Information circular - IAU Commission 26. Double stars, 2004, 153, pp.1. hal-00340004

HAL Id: hal-00340004

<https://hal.science/hal-00340004>

Submitted on 23 Nov 2019

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

INTERNATIONAL ASTRONOMICAL UNION COMMISSION 26

(DOUBLE STARS)

INFORMATION CIRCULAR No. 153 (JUNE 2004)

NEW ORBITS

ADS α 2000 δ	Name n	P a	T i	e ω	Ω (2000) Last ob.	2004 2005	Author(s)
883 01049+3649	A 1515 2°1159	170 ^y 14 0''237	2036.97 68°9	0.053 282°1	111°6 1999.7094	301°8 0''212 302.8 0.208	DOCOBO & LING
03494-1956	RST 2324 3.2432	111.00 0.209	1996.88 135.8	0.287 134.5	164.3 2001.570	346.9 0.158 343.1 0.160	OLEVIC & CVETKOVIC
04093-2025	RST 2333 2.3310	154.44 0.337	1996.04 74.3	0.138 113.8	17.2 1993.0977	183.7 0.226 185.0 0.235	OLEVIC & CVETKOVIC
5447 06474+1812	STT 156 1.6026	224.63 0.427	2022.30 155.8	0.477 324.7	82.9 2004.210	196.7 0.28 193.6 0.27	SCARDIA et al. (*)
07467+2001	2MASSW 31.4878	11.433 0.221	2002.856 139.9	0.445 352.8	24.8 2004.023	313.0 0.131 267.1 0.181	DOCOBO & TAMAZIAN
6811 08267+2432	A 1746 BC 16.5289	21.78 0.149	1998.42 19.1	0.079 51.0	153.6 1999.3214	307.1 0.149 322.3 0.153	DOCOBO & LING
7662 10093+2020	A 2145 3.0189	119.25 0.184	2001.46 118.1	0.32 319.4	28.2 1995.1438	40.6 0.117 37.4 0.122	OLEVIC & CVETKOVIC
8035 11037+6145	BU 1077 AB 8.0803	44.55 0.600	2001.94 160.4	0.427 268.4	48.5 2004.213	95.2 0.36 78.0 0.40	SCARDIA et al. (*)
13574-6229	FIN 370 AB 18.7872	19.16 0.148	2006.46 142.3	0.251 171.7	79.7 1993.0984	337.3 0.103 306.9 0.103	MANTE
10540 17248+3044	BU 1250 0.5131	701.60 1.754	1649.68 0.9	0.077 173.2	119.7 2001.362	114.4 1.889 114.9 1.889	MANTE
10621 17324+2848	A 352 0.6206	64.05 0.177	1982.58 98.6	0.309 292.9	1.3 1996.5291	326.0 0.054 315.8 0.045	DOCOBO & LING

NEW ORBITS (continuation)

ADS α 2000 δ	Name n	P a	T i	e ω	Ω (2000) Last ob.	2004 2005	Author(s)
19073+3606	STA 3 4.0423	89.06 0.128	2004.96 122.2	0.602 228.8	133.0 1992.3105	296.2 0.047 280.9 0.039	OLEVIC & CVETKOVIC
13028 19520-1021	BU 148 AB 0.4596	783.31 1.365	2032.84 120.5	0.620 217.5	38.1 2002.602	230.9 0.607 229.9 0.605	LING

(*) SCARDIA, PRIEUR, ARISTIDI, KOECHLIN and SALA

ANNOUNCEMENT

THE SPECKLE CAMERA PISCO IS NOW OPERATIONAL ON THE 1-METER
ZEISS TELESCOPE OF I.N.A.F. - OSSERVATORIO ASTRONOMICCO DI BRERA
AT MERATE, ITALY

PISCO is a speckle camera which belongs to Midi-Pyrnes Observatory (Toulouse, France) and was used from 1993 to 1998 with the 2-meter Bernard Lyot telescope of the Pic du Midi Observatory (France). Due to a change of policy of the time-allocation committee, it was no longer used after 1998 for regular observations of visual binaries. A group of European astronomers involved in the study of binary stars (from Belgium, Bulgaria, France, Italy, and Poland) were very disappointed by such a situation and decided to look for a new host telescope on which PISCO could be mounted and operated at regular times throughout the year. In 2000 they investigated the possibility of using PISCO with the 2-meter telescope of the National Astronomical Observatory of the Bulgarian Academy of Sciences at Rozhen (Bulgaria). This project failed because of technical problems. In the summer of 2003, M. Scardia proposed to install this instrument on the 1-meter Zeiss telescope in Merate. In November 2003, PISCO and the intensified CCD camera of Nice University (France) were successfully installed at the Cassegrain focus of the Zeiss telescope under the supervision of J.L. Prieur and L. Koechlin, with the help of the OAB technical staff, during a memorable week of pouring rain! After a few weeks of tests performed by M. Scardia, PISCO became fully operational in January 2004. The subsequent observations have already confirmed the possibility of observing visual binaries with separations down to $0''14$ and with luminosity differences up to 4 magnitudes between the components.

Scardia M., Prieur J.-L., Koechlin L., Aristidi E., Lampens P., Strigachev A., Oblak E., Kurpinska-Winiarska M., Ghigo M., Mazzoleni F., and Sala M..

NOTES

- Errata in Information Circular No. 152
 - In the entry for WDS 22344+2623 (COU 540), the value of ω should be 162.5, not 13.5.
- Others papers on double stars published in 2003
 - ALZNER, A.: *Micrometric measures of double stars from 1998.02 to 2002.92*. The Webb Soc. Double Star Section Cir. **11**, 10 (2003).
 - DOMMANGET, J.: *The Mass/Eccentricity Limit in Double Star Astronomy*. Journal of Astrophysics & Astronomy **24**, 99 (2003)
 - TOBAL, T. & PLANAS, J.: *OAG General Catalogue of 10.000 Measurements of Visual Double Stars (1970-2003 / J2000,0)*. Garraf Astronomical Observatory (Barcelona-Spain). December 2003

The deadline for contributions to Information Circular No. 154 is:

October 15th 2004

J. A. Docobo (oadoco@usc.es)

J. F. Ling (oafana@usc.es)

Tel. +34 981592747

Fax: +34 981597054

Observatorio Astronómico R. M. Aller

P. O. Box 197

<http://www.usc.es/astro>

Universidade de Santiago de Compostela

SPAIN

ISSN: 1024-7769