



Orbital elements of double stars: ADS 1548

Marco Scardia, Jean-Louis Prieur, Luigi Pansecchi, Robert W. Argyle,
Josefina Ling, Eric Aristidi, Alessio Zanutta, Lyu Abe, Philippe Bendjoya,
Jean-Pierre Rivet, et al.

► To cite this version:

Marco Scardia, Jean-Louis Prieur, Luigi Pansecchi, Robert W. Argyle, Josefina Ling, et al.. Orbital elements of double stars: ADS 1548. 2018, pp.1. hal-02357208

HAL Id: hal-02357208

<https://hal.science/hal-02357208>

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 G1 (BINARY AND MULTIPLE STAR SYSTEMS)

DOUBLE STARS INFORMATION CIRCULAR No. 194 (FEBRUARY 2018)

NEW ORBITS

ADS α2000δ	Name n	P a	T i	e ω	Ω(2000) Last ob.	2018 2019	Author(s)
1548 01570+3101	A 819 AB 2°6587	135 ^y 4 0″424	2011.06 50°5	0.548 189°7	153°8 2017.833	39°7 0″161 49.4 0.163	SCARDIA et al. (*)
- 02332-5156	HDS 333 7.2665	49.54 0.413	1981.14 57.4	0.60 150.9	252.6 2018.073	253.8 0.542 255.7 0.519	TOKOVININ
- 03423+3141	COU 691 5.8290	61.76 0.160	1964.53 65.2	0.059 284.8	68.6 2014.9402	276.2 0.109 282.0 0.099	DOCOBO & LING
- 04180-3826	HDS 546 47.58	7.566 0.122	2017.921 114.6	0.271 36.9	64.1 2018.073	42.5 0.069 282.7 0.064	TOKOVININ
- 04506+1505	CHR 20 62.7834	5.734 0.089	2003.862 116.7	0.066 95.0	130.5 2015.9104	233.4 0.043 151.2 0.076	DOCOBO & CAMPO
- 05272+1758	MCA 19 Aa,Ab 22.3187	16.130 0.075	2014.753 108.2	0.822 138.0	73.8 2015.9105	107.0 0.052 100.7 0.068	DOCOBO et al (**)
- 05465+7437	YSC 148 32.2870	11.150 0.168	2005.960 43.0	0.326 138.5	355.5 2013.8813	185.7 0.125 224.1 0.129	DOCOBO et al (***)
- 05525-0217	HDS 787 30.3183	11.874 0.119	2011.632 58.8	0.243 89.0	152.7 2016.9591	76.4 0.078 107.1 0.092	DOCOBO et al (**)
- 05536-5640	FIN 93 Aa,Ab 4.6846	78.1 0.313	2042.89 69.9	0.55 117.2	164.6 2018.085	150.5 0.356 151.5 0.358	TOKOVININ
- 06073+2641	MCA 25 8.4209	42.751 0.075	1996.438 39.8	0.330 342.5	4.0 2013.8807	171.1 0.098 174.6 0.099	DOCOBO et al (**)
- 06255+2320	MCA 26 8.4032	42.841 0.087	2020.594 82.5	0.074 236.8	149.3 2013.8834	333.9 0.069 335.8 0.061	DOCOBO et al (**)

NEW ORBITS (continuation)								
ADS α 2000 δ	Name n	P a	T i	e ω	Ω (2000) Last ob.	2018 2019	Author(s)	
- 06502+3624	COU 1738 1.3333	270.0 0.354	2038.58 73.1	0.478 212.9	23.6 2013.8834	189.7 0.188 190.9 0.191	DOCOBO et al (**)	
- 07155-7552	I 312 0.720	500 1.297	2012.58 95.9	0.665 94.7	159.4 2018.087	349.4 0.230 347.9 0.262	TOKOVININ	
- 07435-2711	B 737 1.8938	190.1 0.230	1972.8 109.2	0.453 137.4	79.9 2018.087	167.1 0.087 163.3 0.089	TOKOVININ	
- 09366-2442	FIN 383 45.701	7.88 0.080	2017.41 132.2	0.639 224.2	177.5 2018.073	203.9 0.047 173.3 0.095	TOKOVININ	
- 09466-4955	HDS 1414 5.0102	71.9 0.160	2019.2 66.4	0.80 239.9	289.7 2018.087	105.9 0.044 132.8 0.024	TOKOVININ	
- 09488-5237	B 1663 1.220	295 1.912	1808.15 103.3	0.40 259.1	125.5 2018.087	328.7 1.197 328.0 1.215	TOKOVININ	
- 10121-0241	DEL 3 47.3008	7.611 0.293	2016.875 93.3	0.751 274.1	68.9 2018.087	63.9 0.175 56.6 0.116	TOKOVININ	
- 10544+3840	COU 1746 6.1517	58.52 0.224	1972.67 19.2	0.845 22.2	113.2 2012.0999	332.0 0.317 333.6 0.305	LING	
- 11101-3822	B 795 3.1304	115 0.514	1982.85 83.2	0.75 192.7	7.8 2016.962	7.4 0.802 7.5 0.811	TOKOVININ	
- 13598-0333	HDS 1962 36.5334	9.854 0.072	2018.109 50.7	0.387 235.6	30.3 2015.1716	243.4 0.037 348.1 0.042	DOCOBO et al (**)	
- 14020-2108	WSI 79 14.7172	24.46 0.205	2015.22 144.7	0.74 325.1	137.9 2018.087	38.4 0.153 26.6 0.188	TOKOVININ	
- 14138+3059	COU 606 13.7143	26.25 0.195	1984.57 138.7	0.312 186.7	58.8 2014.272	93.8 0.197 85.1 0.215	DOCOBO & LING	
- 14152-6739	DON 652 2.8324	127.1 0.634	2023.46 78.8	0.90 15.3	84.1 2017.285	281.7 0.192 285.1 0.148	TOKOVININ	
- 14453-3609	I 528 AB 10.8977	33.03 0.090	2023.633 61.1	0.649 78.0	176.5 2017.432	138.3 0.065 146.0 0.064	TOKOVININ	

NEW ORBITS (continuation)							
ADS α 2000 δ	Name n	P a	T i	e ω	Ω (2000) Last ob.	2018 2019	Author(s)
- 15432-4443	I 403 1.5950	225.7 1.110	2086.2 78.0	0.50 52.0	16.7 2017.536	252.1 0.369 254.8 0.357	TOKOVININ
- 17011-4204	B 1841 2.2324	161.26 0.151	2045.345 74.9	0.597 30.0	165.2 2017.681	39.3 0.050 43.9 0.047	TOKOVININ
- 17194-4413	HDO 269 0.2118	1700 0.806	1999.5 72.4	0.949 112.7	27.7 2017.536	234.5 0.105 235.6 0.106	TOKOVININ
- 17221-7007	FIN 373 2.2500	160 0.140	1998.2 104.2	0.203 55.3	288.2 2017.285	131.8 0.066 129.6 0.071	TOKOVININ
- 17286-2531	B 129 1.0113	356 0 0.688	2013.7 52.4	0.862 126.5	133.0 2017.681	330.2 0.144 336.8 0.155	TOKOVININ
- 17297-4947	I 1323 8.4803	42.5 0.224	2000.85 46.8	0.58 167.9	138.2 2017.681	121.5 0.329 123.6 0.336	TOKOVININ
- 17584+0428	KUI 84 24.4615	14.717 0.170	1986.75 61.1	0.513 10.8	171.3 2015.5406	305.6 0.088 327.9 0.148	DOCOBO & LING
- 18190-4759	B 936 4.1267	87.24 0.384	2003.09 103.4	0.561 226.9	162.1 2015.541	163.5 0.395 162.8 0.411	TOKOVININ
- 19305-3149	B 972 1.7078	210.8 0.152	2010.98 144.8	0.681 275.0	183.0 2017.373	195.7 0.065 190.5 0.069	TOKOVININ
- 19491-6149	I 120 AB 5.6174	64.09 0.324	1996.49 141.2	0.687 139.5	118.7 2017.537	168.3 0.431 166.5 0.440	TOKOVININ
- 21310-3633	B 1008 AB 4.8520	74.20 0.228	2020.43 101.6	0.580 162.1	32.1 2017.827	237.7 0.047 224.9 0.068	TOKOVININ
15986 22237+2051	STF 2900 0.8843	407.1 2.030	2000.07 91.5	0.827 220.6	180.4 2017.826	181.0 0.980 180.9 1.030	TOKOVININ
- 22321-4244	I 1445 4.5162	79.7 0.336	1999.1 97.6	0.857 65.8	179.1 2017.433	350.3 0.330 350.0 0.331	TOKOVININ

(*) SCARDIA, PRIEUR, PANSECCHI, ARGYLE, LING, ARISTIDI, ZANUTTA, ABE, BENDJOYA, RIVET, SUAREZ & VERNET

(**) DOCOBO, CAMPO & GÓMEZ

(***) DOCOBO, CAMPO, ANDRADE & HORCH

NEW DOUBLE STARS

Discovered by A. Debackère using LCOGT global telescope network.

- FTN : Faulkes Telescope North T2m, Haleakala, Hawaii, LCOGT
- FTS : Faulkes Telescope South T2m, Siding Spring, Australia, LCOGT
- K93 : T1m, Sutherland, South Africa, LCOGT

STAR	Precise Coord	UCAC4	Mag. V band B band	Epoch	θ ($^{\circ}$)	ρ ($''$)	Obs
DBR 272	064325.32+225027.1	565-031650	13.4 15.0	2017.145	218.8	3.01	1 K93
DBR 273	064802.28+225116.1	565-032624	14.2 15.0	2017.206	327.2	1.40	1 FTN
DBR 274	065304.97+223627.1	564-033913	12.0 13.2	2017.231	56.6	5.14	1 FTN
DBR 275	065339.06+224515.6	564-034029	11.8 14.0	2017.231	185.9	1.04	1 FTN
DBR 276	065957.60+222734.4	563-037002	11.8 13.0	2017.256	309.2	4.93	1 FTS
DBR 277 AB	071554.24-115914.5	391-024313	<u>13.2 14.1</u>	2017.901	256.4	2.57	1 FTS
DBR 277 AC	071554.24-115914.5	391-024313	<u>13.2 14.3</u>	2017.901	351.9	1.05	1 FTS
DBR 278	071810.55-131117.2	385-027959	11.2 11.5	2017.185	171.5	1.52	2 FTS, FTN
DBR 279	071831.28-131720.5	384-028426	14.4 14.8	2017.147	285.4	1.16	1 FTS
DBR 280	071849.84-130854.2	385-028167	12.9 13.9	2017.147	131.7	2.43	1 FTS
DBR 281	083627.83+211853.0	557-045219	9.2 10.4	2017.208	314.3	5.90	3 FTS, FTN
DBR 282	090139.90-692854.5	103-027299	10.9 12.7	2017.234	1.4	2.61	4 FTS
DBR 283	113812.23-631915.2	134-057430	12.8 13.0	2017.152	285.2	2.17	1 FTS
DBR 284	113819.92-632036.5	134-057489	10.0 11.8	2017.152	67.5	5.46	1 FTS
DBR 285	114610.73-592722.2	153-085119	12.6 12.9	2017.310	33.6	1.98	3 FTS
DBR 286	115408.55+521638.9	712-050672	12.0 12.3	2017.204	358.3	2.49	1 FTN
DBR 287	171113.29-253541.7	323-104038	<u>14.2 16.6</u>	2017.379	116.5	1.66	1 FTN
DBR 288	171122.96-253104.2	323-104135	<u>14.2 15.9</u>	2017.379	340.5	1.99	1 FTN
DBR 289	181220.41+065548.2	485-076417	14.8 15.6	2017.177	241.7	1.28	1 FTS
DBR 290	181828.66-134412.9	382-101606	12.9 13.1	2017.552	84.2	2.57	3 FTN, FTS
DBR 291	181836.45-134719.0	382-101648	12.9 12.9	2017.552	98.9	3.05	3 FTN, FTS
DBR 292	181856.92-134852.2	381-104756	14.1 15.4	2017.552	61.0	2.04	3 FTN, FTS
DBR 293	211659.89+514558.6	709-080831	<u>12.2 12.8</u>	2017.5006	198.8	5.46	1 FTN
DBR 294 AB	212955.47+121104.0	511-137196	12.4 13.8	2017.631	348.1	4.07	1 FTN
DBR 294 AC	212955.47+121104.0	511-137196	12.4 14.8	2017.631	330.6	1.90	1 FTN
DBR 295	213000.92+121249.2	512-132466	14.6 15.4	2017.631	4.8	0.82	1 FTN

(1) The first component of TDT 3998 AB (neglected) has a companion not indexed in the WDS which I called DBR 204 AC.

NEW DOUBLE STARS

Discovered by: Kacper Wierzchos using a CCD camera attached to the 0.2m SCT of the Aravaca Observatory, Spain

STAR	Precise Coord.	Durchmusterung	Mag.	Epoch	θ ($^{\circ}$)	ρ ($''$)
WRS 4	001809.53+861452.3	+85 4	10.9 12.7	2018.0616	53.5	4.53
WRS 5	085342.56+851120.1	+85 129	8.6 12.4	2018.0616	329.7	11.70
WRS 6	131537.56+842649.2	+85 221	10.0 11.2	2018.0863	303.2	5.31
WRS 7	164959.00+862941.6	+86 258	9.7 11.5	2018.0863	111.9	4.29

PAPERS PUBLISHED IN 2017

1. ALLEN, C. et al.: *On the dynamical evolution of the Orion Trapezium*. Mont. Not. RAS **466**, (4), 4937 (2017).
2. ALMEIDA, L. A. et al.: *The Tarantula Massive Binary Monitoring I. Observational campaign and OB-type spectroscopic binaries*. Astron. Astroph. **598**, A84 (2017).
3. AL-WARDAT, M. A. et al.: *Physical and geometrical parameters of CVBS. XII. FIN 350 (HIP 64838)*. Astrophys. Bull. **72**, 24 (2017).
4. ANDREWS, J. J.; CHANAMÉ, J. & AGÜEROS, M. A.: *Wide binaries in Tycho-Gaia: search method and the distribution of orbital separations*. Mont. Not. RAS **472**, (1), 2017 (2017).
5. AZULAY, R. et al.: *The ABDoradus system revisited: The dynamical mass of ABDorA/C*. Astron. Astroph. **607**, A10 (2017).
6. BALEGA, Y. Y. et al.: *Multiplicity Survey of Bright Stars in the Nearby OB Associations*. Astron. Soc. of the Pacific Conf. Ser. **510**, 325 (2017).
7. BEDIN, L. R. et al.: *Hubble Space Telescope astrometry of the closest brown dwarf binary system - I. Overview and improved orbit*. Mont. Not. RAS **470**, (1), 1140 (2017).
8. BOND, H. E.; BERGERON, P. & BÉDARD, A.: *Astrophysical Implications of a New Dynamical Mass for the Nearby White Dwarf 40 Eridani B*. Astrophys. J. **848**, (1) 16 (2017).
9. BOND, H. E. et al.: *The Sirius System and Its Astrophysical Puzzles: Hubble Space Telescope and Ground-based Astrometry*. Astrophys. J. **840**, (2) 70 (2017).

10. BRANHAM, R. L. Jr.: *A three-dimensional orbit for the binary star Alpha Andromedae*. Mont. Not. RAS **464**, (1), 1095 (2017).
11. BRICEO, C. & TOKOVININ, A.: *New Binaries in the Cha Association*. Astron. J. **154**, (5) 195 (2017).
12. COJOCARU, R. et al.: *The population of white dwarf main sequence binaries in the SDSS DR 12*. Mont. Not. RAS **470**, (2), 1442 (2017).
13. COKER, C. T. et al.: *A Search for Binary Star Companions to the KELT Planet Hosts and a Comparison Sample. I. Results of DSSI Observations*. Astron. J. **155**, (1) 27 (2017)
14. CVETKOVIC, Z. & PAVLOVIC, R. : *New Orbits for 18 Binaries*. Astron. J. **154**, (6) 273 (2017)
15. CVETKOVIC, Z.; PAVLOVIC, R. & BOEVA, S.: *CCD Measurements of Double and Multiple Stars at NAO Rozhen and ASV in 2015*. Astron. J. **153**, (4) 195 (2017)
16. DIMITROV, W. et al.: *The hierarchical triple system DY Lyncis*. Mont. Not. RAS **466**, (1), 2 (2017).
17. DOCOBO, J. A. et al.: *Precise orbital elements, masses and parallax of the spectroscopic-interferometric binary HD 26441*. Mont. Not. RAS **469**, (1), 1096 (2017).
18. DOS SANTOS, L. A. et al.: *Spectroscopic binaries in the Solar Twin Planet Search program: from substellar mass to M dwarf companions* . Mont. Not. RAS **472**, (3), 3425 (2017).
19. DULANEY, N. A. et al.: *A Spectroscopic Orbit for the Late-type Be Star β CMi*. Astrophys. J. **836**, (1) 112 (2017).
20. ESCORZA, A. et al.: *Hertzsprung-Russell diagram and mass distribution of barium stars*. Astron. Astroph. **608**, A100 (2017).
21. GÁLVEZ-ORTIZ, M. C. et al.: *Discovery of wide low and very low-mass binary systems using Virtual Observatory tools*. Mont. Not. RAS **466**, (3), 2983 (2017).
22. FEKEL, F. et al.: *Infrared Spectroscopy of Symbiotic Stars. XI. Orbits for Southern S-type Systems: Hen 3-461, SY Mus, Hen 3-828, AND AR Pav*. Astron. J. **153**, (1) 35 (2017)
23. FEKEL, F. et al.: *New Precision Orbits of Bright Double-lined Spectroscopic Binaries. X. HD 96511, HR 7578, and KZ Andromedae*. Astron. J. **154**, (3) 120 (2017)
24. FERNANDEZ, M. A. et al.: *IN-SYNC VI. Identification and Radial Velocity Extraction for 100+ Double-Lined Spectroscopic Binaries in the APOGEE/IN-SYNC Fields*. Pub. Astron. Soc. of the Pacific **129**, 978 (2017).

25. FURLAN, E.& HOWELL, S. B.: *The Densities of Planets in Multiple Stellar Systems*. Astron. J. **154**, (2) 66 (2017)
26. FURLAN, E. et al.: *The Kepler Follow-up Observation Program. I. A Catalog of Companions to Kepler Stars from High-Resolution Imaging*. Astron. J. **153**, (2) 71 (2017)
27. GRIFFIN, R. F.: *Spectroscopic binary orbits from photoelectric radial velocities. Paper 252: HD 102687, HD 110987, HD 114604, and HD 114882*. The Observatory **137**, 8 (2017).
28. GRIFFIN, R. F.: *Spectroscopic binary orbits from photoelectric radial velocities. Paper 253: HD 142178, HD143777, HD 145373, and HD 145933*. The Observatory **137**, 62 (2017).
29. GRIFFIN, R. F.: *Spectroscopic binary orbits from photoelectric radial velocities. Paper 254: HD 155878, HD 156613, HD 159027, and HD 162054*. The Observatory **137**, 115 (2017).
30. GRIFFIN, R. F.: *Spectroscopic binary orbits from photoelectric radial velocities. Paper 255: HD 143688, HD 153302, HD 153722, and HD 155026*. The Observatory **137**, 170 (2017).
31. GRIFFIN, R. F.: *Spectroscopic binary orbits from photoelectric radial velocities. Paper 256: HD 147250, HD 151446, HD 151448, and HD 157540*. The Observatory **137**, 228 (2017).
32. GRIFFIN, R. E. M. & GRIFFIN, R. F.: *Composite Spectra, Paper XXI: 14 Serpentis*. Astron. Nach. **338**, (5), 604 (2017).
33. HALBWACHS, J.-L.; MAYOR, M. & UDRY, S.: *Double stars with wide separations in the AGK3 II. The wide binaries and the multiple systems*. Mont. Not. RAS **464**, (4), 4966 (2017).
34. HIRSCH, L. A. et al.: *Assessing the Effect of Stellar Companions from High-resolution Imaging of Kepler Objects of Interest*. Astron. J. **153**, (3) 117 (2017)
35. HORCH, E. P. et al.: *Observations of Binary Stars with the Differential Speckle Survey Instrument. VII. Measures from 2010 September to 2012 February at the WIYN Telescope*. Astron. J. **153**, (5) 212 (2017)
36. HRIVNAK, B. J. et al.: *Where are the Binaries? Results of a Long-term Search for Radial Velocity Binaries in Proto-planetary Nebulae*. Astrophys. J. **846**, (2) 96 (2017).
37. HUMMEL, C. A. et al.: *Orbit of the mercury-manganese binary 41 Eridani*. Astron. Astroph. **600**, L5 (2017).
38. HUMMEL, C. A. et al.: *Orbital Elements and Stellar Parameters of the Active Binary UX Arietis*. Astrophys. J. **844**, (2) 115 (2017).

39. JAEHNIG, K. et al.: *IN-SYNC. VII. Evidence for a Decreasing Spectroscopic Binary Fraction (from 1 to 100 Myr) within the IN-SYNC Sample*. *Astrophys. J.* **851**, (1) 14 (2017).
40. JANES, K. A.: *Rotation Periods of Wide Binaries in the Kepler Field*. *Astrophys. J.* **835**, (1) 75 (2017).
41. KELLOGG, K. et al.: *The TWA 3 Young Triple System: Orbits, Disks, Evolution*. *Astrophys. J.* **844**, (2) 168 (2017).
42. KERVELLA, P.; THÉVENIN, F. & LOVIS, C.: *Proxima's orbit around α Centauri*. *Astron. Astroph.* **598**, L7 (2017).
43. KIYAEVA, O. V.; ROMANENKO, L. G. & ZHUCHKOV, R. Y.: *New orbits of wide visual double stars*. *Astron. Letters* **43**, (5) 316 (2017).
44. KURUWITA, R. L.; FEDERRATH, C. & IRELAND, M.: *Binary star formation and the outflows from their discs*. *Mont. Not. RAS* **470**, (2), 1626 (2017).
45. LE BOUQUIN, J.-B. et al.: *Resolved astrometric orbits of ten O-type binaries*. *Astron. Astroph.* **601**, A34 (2017).
46. MAKAROV, V. V.: *Absolute Nuv Magnitudes of GAIA DR1 Astrometric Stars and a Search for Hot Companions in Nearby Systems* *Rev. Mex. A. A.* **53**, 439 (2017).
47. MAKAROV, V. V.; FABRICIUS, C. & FROUARD, J.: *Double Stars and Astrometric Uncertainties in Gaia DR1*. *Astrophys. J. Lett.* **840**, (1) L1 (2017).
48. MALKOV, O. Y. : *Binary Systems and the Initial Mass Function*. *Astrophys, Space Science Conf. Ser.* **511**, 59 (2017).
49. MALKOV, O. Y.; KOVALEVA, D. & KAYGORODOV, P. : *Observational Types of Binaries in the Binary Star Database*. *Astron. Soc. of the Pacific Conf. Ser.* **510**, 360 (2017).
50. MAROCCO, F. et al.: *Ultracool dwarf benchmarks with Gaia primaries*. *Mont. Not. RAS* **470**, (4), 4885 (2017).
51. MASON, B. D. & HARTKOPF, W. I.: *Speckle Interferometry at the U.S. Naval Observatory. XXII*. *Astron. J.* **154**, (5) 183 (2017).
52. MASON, B. D.; HARTKOPF, W. I. & MILES, K. N.: *Binary Star Orbits. V. The Nearby White Dwarf/Red Dwarf Pair 40 Eri BC*. *Astron. J.* **154**, (5) 200 (2017).
53. MASON, B. D. et al.: *Speckle Interferometry at the U.S. Naval Observatory. XXI*. *Astron. J.* **153**, (1) 20 (2017).
54. MENDEZ, R. A.; TOKOVININ, A. & HORCH, E.: *A Speckle survey of Southern Hipparcos Visual Doubles and Geneva-Copenhagen Spectroscopic Binaries* *Rev. Mex. A. A. Conf. Ser.* **49**, 164 (2017).

55. MENDEZ, R. A. et al.: *Orbits for 18 Visual Binaries and Two Double-line Spectroscopic Binaries Observed with HRCAM on the CTIO SOAR 4 m Telescope, Using a New Bayesian Orbit Code Based on Markov Chain Monte Carlo*. *Astron. J.* **154**, (5) 187 (2017).
56. MERLE, T. et al.: *The Gaia-ESO Survey: double-, triple-, and quadruple-line spectroscopic binary candidates*. *Astron. Astroph.* **608**, A95 (2017).
57. MUNOZ, M. et al.: *WR 148: identifying the companion of an extreme runaway massive binary*. *Mont. Not. RAS* **467**, (3), 3105 (2017).
58. OELKERS, R.J.; STASSUN, K. G. & DHITAL, S.: *Gaia Assorted Mass Binaries Long Excluded from SLOWPoKES (GAMBLES): Identifying Ultra-wide Binary Pairs with Components of Diverse Mass*. *Astron. J.* **153**, (6) 259 (2017)
59. PAVLOVIC, R.; CVETKOVIC, Z. & BOEVA, S.: *Measurements of visual double stars between 2011–2014*. *Pub. Astron. Obs. Belgrade* **96**, 97 (2017)
60. REBASSA-MANSERGAS, A. et al.: *Orbital periods and component masses of three double white dwarfs*. *Mont. Not. RAS* **466**, (2), 1575 (2017).
61. ROBERTS, L.C. Jr. et al.: *Continued Kinematic and Photometric Investigations of Hierarchical Solar-type Multiple Star Systems*. *Astron. J.* **153**, (3) 100 (2017)
62. ROMANENTKO, L. G. : *A dynamical study of the multiple system 17 Cygni ABFG*. *Astron. Reports* **61**, (3) 206 (2017).
63. SADAVOY, S. I. & STAHLER, S. W: *Embedded binaries and their dense cores*. *Mont. Not. RAS* **469**, (4), 3881 (2017).
64. SANCHEZ-BERMUDEZ, J. et al.: *GRAVITY Spectro-interferometric Study of the Massive Multiple Stellar System HD 93206 A*. *Astrophys. J.* **845**, (1) 57 (2017).
65. SCARFE, C. D.: *Spectroscopic Orbits of Three Binaries* *Rev. Mex. A. A.* **53**, 333 (2017).
66. SEMYEONG, O. et al.: *Comoving Stars in Gaia DR1: An Abundance of Very Wide Separation Comoving Pairs*. *Astron. J.* **153**, (6) 257 (2017)
67. SHAHAF, S.; MAZEH, T. & FAIGLER, S.: *Study of the mass-ratio distribution of spectroscopic binaries I. A novel algorithm*. *Mont. Not. RAS* **472**, (4), 4497 (2017).
68. SIRBU, D. et al.: *Techniques for High-contrast Imaging in Multi-star Systems. II. Multi-star Wavefront Control*. *Astrophys. J.* **849**, (2) 142 (2017).
69. SOZZETTI, A. et al.: *Evidence for orbital motion of CW Leonis from ground-based astrometry*. *Mont. Not. RAS Lett.* **471**, (1), L1 (2017).
70. TOKOVININ, A.: *Formation of wide binary stars from adjacent cores*. *Mont. Not. RAS* **468**, (3), 3461 (2017).

71. TOKOVININ, A.: *Orbit Alignment in Triple Stars*. Astrophys. J. **844**, (2) 103 (2017).
72. TOKOVININ, A.: *New Orbits Based on Speckle Interferometry at SOAR. II.* Astron. J. **154**, (3) 110 (2017)
73. TOKOVININ, A. & LATHAM, D. W.: *Relative Orbit Orientation in Several Resolved Multiple Systems*. Astrophys. J. **838**, (1) 54 (2017).
74. VAŇKO, M. et al.: *On the nature of the candidate T-Tauri star V501 Aurigae*. Mont. Not. RAS **467**, (4), 4902 (2017).
75. VILLA, A. M. et al.: *Proper Motions of L1551 IRS 5 Binary System Using 7 mm VLA Observations* Rev. Mex. A. A. **53**, 525 (2017).
76. VOS, J. et al.: *The orbits of subdwarf-B + main-sequence binaries III. The perideccentricity distribution*. Astron. Astroph. **605**, A109 (2017).

Errata in Information Circular No. 193

- In the entry for WDS 01337-1213 (HWE 4), the value of the Ω should be 133.7, rather than 3.1
- In the entry for WDS 08486+0237 (A 2551), the value of the Ω should be 182.1, rather than 45.4

The deadline for contributions to Information Circular No. 195 is:

June 15th 2018

J. A. Docobo (joseangel.docobo@usc.es)

J. F. Ling (josefinaf.ling@usc.es)

Tel: +34 881 815 016

Observatorio Astronómico R. M. Aller

P. O. Box 197

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

Universidade de Santiago de Compostela

SPAIN

ISSN: 1024-7769