

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 Wierzechos 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 period-eccentricity 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