

INTERNATIONAL ASTRONOMICAL UNION COMMISSION 26

(DOUBLE STARS)

INFORMATION CIRCULAR No. 164 (FEBRUARY 2008)

NEW ORBITS

ADS α 2000 δ	Name n	P a	T i	e ω	Ω (2000) Last ob.	2008 2009	Author(s)
277 00205+4531	A 647 0.9659	372 ^y 71 0 ^{''} 947	1876.01 122°0	0.292 136°8	39°4 2006.036	101°8 0 ^{''} 67 100.8 0.67	SCARDIA et al. (**)
- 00469+4339	HDS 102 7.6995	46.76 0.229	2015.92 118.7	0.730 67.2	38.6 2001.7609	103.5 0.137 96.2 0.133	CVETKOVIC
1763 02186+4017	EGG 2 Aa 3.2770	109.86 0.344	2094.27 66.0	0.540 288.7	132.6 1999.8313	173.2 0.225 175.9 0.222	CVETKOVIC
4396 05482+0137	A 2657 5.9573	60.43 0.137	1964.86 18.9	0.466 350.4	20.1 1999.8833	224.2 0.172 227.5 0.167	DOCOBO & LING
- 05542-2909	FIN 382 12.7298	28.28 0.218	1992.42 113.3	0.303 45.1	179.9 1993.0951	330.1 0.185 322.4 0.161	CVETKOVIC
- 06362-3608	RST 4816 12.6486	28.46 0.275	2018.86 110.3	0.647 140.9	102.3 1996.1807	112.3 0.394 110.6 0.393	CVETKOVIC
- 06493-0216	FIN 322 6.0418	59.59 0.145	1967.31 118.6	0.235 237.8	59.9 1997.1256	305.4 0.085 297.5 0.088	CVETKOVIC
6526 08017-0836	A 1580 1.4008	257. 0.313	2015.15 55.3	0.178 197.3	107.8 2003.9604	289.4 0.258 290.5 0.258	DOCOBO & LING
- 11495-4604	FIN 366 4.2178	85.35 0.269	1965.84 73.3	0.609 83.6	149.4 1995.1027	36.1 0.135 40.0 0.132	CVETKOVIC
- 16171+5516	BLA 3 85.4701	4.212 0.129	2009.443 107.7	0.569 119.4	15.3 2001.2711	29.9 0.147 10.7 0.099	DOCOBO et al. (*)
15992 22302+2228	HU 388 0.6729	535. 0.518	1934.36 31.5	0.827 265.0	8.8 2005.883	58.7 0.514 59.1 0.517	DOCOBO & LING

NEW ORBITS (continuation)

ADS α 2000 δ	Name n	P a	T i	e ω	Ω (2000) Last ob.	2008 2009	Author(s)
16561	BU 385 AB	830.	1721.18	0.433	44.2	86.0 0.664	LING
23103+3229	0.4337	0.623	131.6	152.2	2005.821	85.8 0.666	

(*) DOCOBO, TAMAZIAN & MELIKIAN

(**) SCARDIA, PRIEUR, PANSECCHI & ARGYLE

PAPERS PUBLISHED IN 2007

1. AL-WARDAT, M. A.: *Model atmosphere parameters of the binary systems COU1289 and COU1291*. *Astron. Nach.* **328** (1), 63 (2007).
2. ANDRADE, M.: *Orbit, Masses and Spectral Analysis of the Visual Binary A 2329*. *Rev. Mex. A. A.* **43** (2) 237 (2007).
3. APAI, D. et al: *Massive Binaries in High-Mass Star-forming Regions: A Multiepoch Radial Velocity Survey of Embedded O Stars*. *Astrophys. J.* **655** (1), 484 (2007).
4. ARGYLE, R.: *Micrometer Measurements from 2006.0 to 2007.0*. *The Webb Soc. Double Star Section Cir.* **15**, 1 (2007).
5. ARTIGAU, E. et al: *Discovery of the Widest Very Low Mass Binary*. *Astrophys. J. Lett.* **659** (1), L49 (2007).
6. ASADA, H., AKASAKA, T. & KUDOH, K.: *Simplified Solution to Determination of a Binary Orbit* *Astron. J.* **133** (4), 1243 (2007).
7. BAKIS, V. et al.: *η Muscae: a young detached binary with two identical components*. *Montly Notices of the Royal Astronomical Society* **382** (2), 609 (2007).
8. BALEGA, Y. Y. et al.: *Accurate masses of low mass stars GJ 765.2AB ($0.83 M_{\odot} + 0.76 M_{\odot}$)*. *Astron. Astrophys.* **464** (2), 635 (2007).
9. BODEN, A. F. et al.: *Dynamical Masses for PreMain-Sequence Stars: A Preliminary Physical Orbit for V773 Tau A* *Astrophys. J.* **670** (2), 1214 (2007).
10. BONAVIDA, M. & DESIDERA, S.: *The frequency of planets in multiple systems*. *Astron. Astrophys.* **468** (2), 721 (2007).

11. BOYAJIAN, T. S. et al.: *The Long-Period, Massive Binaries HD 37366 and HD 54662: Potential Targets for Long-Baseline Optical Interferometry*. *Astrophys. J.* **664** (2), 1121 (2007).
12. BOYAJIAN, T. S. et al.: *Radial Velocities of Six OB Stars*. *Pub. Astron. Soc. of the Pacific* **119** (857), 742 (2007).
13. BOZIC, H. et al.: *HD 143418: an unusual light variable and a double-lined spectroscopic binary with a CP primary*. *Astron. Astrophys.* **464** (1), 263 (2007).
14. BRANHAM, R. L. JR.: *Calculating the Orbit of a Double Star with Visual, Speckle, and Radial Velocity Data* *Astron. J.* **134** (1), 274 (2007).
15. BURGASSER, A. J.: *Binaries and the L Dwarf/T Dwarf Transition*. *Astrophys. J.* **659** (1), 655 (2007).
16. BURGASSER, A. J. et al.: *Discovery of a High Proper Motion L Dwarf Binary: 2MASS J15200224-4422419AB*. *Astrophys. J.* **658** (1), 557 (2007).
17. CABALLERO, J. A.: *Southern Very Low Mass Stars and Brown Dwarfs in Wide Binary and Multiple Systems*. *Astrophys. J.* **667** (1), 520 (2007)
18. CABALLERO, J. A.: *The widest ultracool binary*. *Astron. Astrophys.* **462** (3), L61 (2007).
19. CARMONA, A., VAN DEN ANCKER, M. E. & HENNING, TH.: *Optical spectroscopy of close companions to nearby Herbig Ae/Be and T Tauri stars*. *Astron. Astrophys.* **464** (2), 687 (2007).
20. CARQUILLAT, J.-M. & PRIEUR, J.-L.: *Contribution to the search for binaries among Am stars VIII. New spectroscopic orbits of eight systems and statistical study of a sample of 91 Am stars*. *Montly Notices of the Royal Astronomical Society* **380** (3), 1064 (2007).
21. CARQUILLAT, J.-M. & PRIEUR, J.-L.: *Contribution to the study of composite spectra: XII. Spectroscopic orbits of eight southern stars*. *Astron. Nach.* **328** (6), 527 (2007).
22. CLOSE, L. M. et al.: *The Wide Brown Dwarf Binary Oph 1622-2405 and Discovery of a Wide, Low-Mass Binary in Ophiuchus (Oph 1623-2402): A New Class of Young Evaporating Wide Binaries?*. *Astrophys. J.* **660** (2), 1492 (2007).
23. CVETKOVIC, Z. et al.: *CCD Measurements of Double and Multiple Stars at NAO Rozhen. III. Ser. A. J.* **174**, 83 (2007)
24. DESIDERA, S. & BARBIERI, M.: *Properties of planets in binary systems - The role of binary separation*. *Astron. Astrophys.* **462** (1), 345 (2007).
25. DESIDERA, S. et al.: *Accretion of chemically fractionated material on a wide binary with a blue straggler*. *Astron. Astrophys.* **462** (3), 1039 (2007).

26. DOCOBO, J. A. & LING, J. F.: *Orbits and System Masses of 14 Visual Double Stars with Early-Type Components* *Astron. J.* **133** (4), 1209 (2007).
27. DOCOBO, J. A. et al.: *Binary Star Speckle Measurements with the 1.52-m telescope at Calar Alto*. *Rev. Mex. A. A.* **43** (1) 141 (2007).
28. ECHEVARRÍA, J., DE LA FUENTE, E. & COSTERO, R.: *U Geminorum: A Test Case for Orbital Parameter Determination* *Astron. J.* **134** (1), 134 (2007).
29. EISENBEISS, T. et al.: *Low-mass visual binaries in the solar neighbourhood: The case of HD 141272*. *Astron. Nach.* **328** (6), 512 (2007).
30. ESPOSITO, M. et al.: *MO Lup: a hierarchical triple T Tauri system*. *Monthly Notices of the Royal Astronomical Society* **376** (4), 1805 (2007).
31. FEKEL, F. C., WILLIAMSON, M. & POURBAIX, D.: *The Spectroscopic and Astrometric Orbits of HR 672* *Astron. J.* **133** (6), 2431 (2007).
32. FEKEL, F. C. & BOLTON, C. T.: *Chromospherically Active Stars. XXVI. The Double-Lined Late-Type Binary HD 19485 = WZ Arietis* *Astron. J.* **134** (5), 2079 (2007).
33. FRANKOWSKI, A., JANCART, S. & JORISSEN, A.: *Proper-motion binaries in the Hipparcos catalogue - Comparison with radial velocity data*. *Astron. Astrophys.* **464** (1), 377 (2007).
34. GOKHALE, V., PENG X. M. & FRANK, J.: *Evolution of Close White Dwarf Binaries*. *Astrophys. J.* **655** (2), 1010 (2007).
35. GOLDIN, A. & MAKAROV, V. V.: *Astrometric Orbits for Hipparcos Stochastic Binaries*. *Astrophys. J. Sup. Ser.* **173** (1), 137 (2007).
36. GRIFFIN, R. F. : *Spectroscopic binary orbits from photoelectric radial velocities - Paper 192: HD 172401*. *The Observatory* **127**, 45 (2007).
37. GRIFFIN, R. F. : *Spectroscopic binary orbits from photoelectric radial velocities - Paper 193: HD 47467, HR 3451, and HD 223323*. *The Observatory* **127**, 113 (2007).
38. GRIFFIN, R. F. : *Spectroscopic binary orbits from photoelectric radial velocities - Paper 194: HD 113997, HD 114931, HD 115588, and HD 116880, with a preliminary discussion of HD 113995*. *The Observatory* **127**, 171 (2007).
39. GRIFFIN, R. F. : *Spectroscopic binary orbits from photoelectric radial velocities - Paper 195: HD 50730 B, HD 213014 B, and HR 8082 B (BD -5 1867, BD +16 4746 B, and BD +26 4074)*. *The Observatory* **127**, 225 (2007).
40. GRIFFIN, R. F. : *Spectroscopic binary orbits from photoelectric radial velocities - Paper 196: HR 770, HD 64207, HD 187160, and HD 212790*. *The Observatory* **127**, 313 (2007).

41. GRIFFIN, R. F. : *Spectroscopic binary orbits from photoelectric radial velocities - Paper 197: HD 10262 and HD 116127*. The Observatory **127**, 379 (2007).
42. GRUNDSTROM, E. D. et al.: *A Spectroscopic Study of Mass Outflows in the Interacting Binary RY Scuti* Astrophys. J. **667** (1), 505 (2007).
43. GUENTHER, E. W. et al. : *Pre-main sequence spectroscopic binaries suitable for VLTI observations* Astron. Astrophys. **467** (3), 1147 (2007).
44. HARMANEC, P. et al.: *V379 Cephei: a quadruple system of two binaries* . Astron. Astrophys. **463** (3), 1061 (2007).
45. HORMUTH, F. et al.: *Direct imaging of the young spectroscopic binary HD 160934*. Astron. Astrophys. **463** (2), 707 (2007).
46. JANSON, M. et l.: *Improved age constraints for the AB Doradus quadruple system The binary nature of AB Doradus B*. Astron. Astrophys. **462** (2), 615 (2007).
47. KARAMI, K. & MOHEBI, R.: *Velocity Curve Analysis of Spectroscopic Binary Stars AI Phe, GM Dra, HD 93917 and V502 Oph by Nonlinear Regression* . Chinese J. Astron. Astrophys. **7** (4), 558 (2007).
48. KARAMI, K. & TEIMOORINIA, H.: *Velocity curve analysis of the spectroscopic binary stars by the non-linear least squares*. Astrophys. Space Science **311** (4), 435 (2007).
49. KELLERER, A. et al.: *Interferometric observations of the multiple stellar system δ Velorum*. Astron. Astrophys. **469** (2), 633 (2007).
50. KJURKCHIEVA, D. P. & MARCHEV, D. V.: *Spectroscopic and photometric observations of the eclipsing star UV Leo* . Montly Notices of the Royal Astronomical Society **381** (2), 663 (2007).
51. KJURKCHIEVA, D. P., MARCHEV, D. V. & ZOLA, S.: *Spectroscopic solution of the star QX Cas*. Montly Notices of the Royal Astronomical Society **382** (2), 835 (2007).
52. KOBULNICKY, H. A. & FRYER, C. L.: *A New Look at the Binary Characteristics of Massive Stars* Astrophys. J. **670** (1), 747 (2007).
53. KONOPACKY, Q. M. et al.: *New Very Low Mass Binaries in the Taurus Star-forming Region*. Astrophys. J. **663** (1), 394 (2007).
54. KOUWENHOVEN, M. B. N. et al.: *The primordial binary population. II. - Recovering the binary population for intermediate mass stars in Scorpius OB2*. Astron. Astrophys. **474** (1), 77 (2007).
55. KRAUS, A. L. & HILLENBRAND, L. A.: *The Role of Mass and Environment in Multiple-Star Formation: A 2MASS Survey of Wide Multiplicity in Three Young Associations* Astrophys. J. **662** (1), 413 (2007).

56. KRAUS, A. L. & HILLENBRAND, L. A.: *USco J1606-1935: An Unusually Wide Low-Mass Triple System?* *Astrophys. J.* **664** (2), 1167 (2007).
57. KRAUS, S. et al.: *Visual/infrared interferometry of Orion Trapezium stars: preliminary dynamical orbit and aperture synthesis imaging of the θ^1 Orionis C system* *Astron. Astrophys.* **466** (2), 649 (2007).
58. LAMPENS, P., STRIGACHEV, A. & DUVAL, D.: *Multicolour CCD measurements of visual double and multiple stars. III.* *Astron. Astrophys.* **464** (2), 641 (2007).
59. LANE, B. F. et al.: *The Orbits of the Quadruple Star System 88 Tauri A from PHASES Differential Astrometry and Radial Velocity* *Astrophys. J.* **669** (2), 1209 (2007).
60. LEPINE, S. et al.: *An Astrometric Companion to the Nearby Metal-Poor, Low-Mass Star LHS 1589* *Astrophys. J.* **668** (1), 507 (2007).
61. LINDER, N. et al.: *The Struve-Sahade effect in the optical spectra of O-type binaries - I. Main-sequence systems.* *Astron. Astrophys.* **474** (1), 193 (2007).
62. LUHMAN, K. L. et al.: *Ophiuchus 1622-2405: Not a Planetary-Mass Binary.* *Astrophys. J.* **659** (2), 1629 (2007).
63. MAKAROV, V. V.: *Binarity of the Nearby 30 Myr Old Solar Analog HIP 16853 in the Tucana-Horologium Stream.* *Astrophys. J. Lett.* **654** (1), L81 (2007).
64. MAKAROV, V. V. et al.: *The Nearby Young Visual Binary HIP 115147 and Its Common Proper Motion Companion LSPM J2322+7847.* *Astrophys. J. Lett.* **667** (2), L155 (2007).
65. MALKOV, O. Y.: *Mass-luminosity relation of intermediate-mass stars.* *Montly Notices of the Royal Astronomical Society* **382** (3), 1073 (2007).
66. MALMBERG, D. DAVIES, M. B. & CHAMBERS, J. E.: *The instability of planetary systems in binaries: how the Kozai mechanism leads to strong planetplanet interactions.* *Montly Notices of the Royal Astronomical Society: Letters* **377** (1), L1 (2007).
67. MARTINACHE, F. et al.: *Precision Masses of the Low-Mass Binary System GJ 623 .* *Astrophys. J.* **661** (1), 496 (2007).
68. MASON, B. D. et al.: *Speckle Interferometry at the US Naval Observatory. XIII* *Astron. J.* **134** (4), 1671 (2007).
69. McINTOSH, G. C. & RUSTAN, G.: *The Orbital Elements of R Aquarii* *Astron. J.* **134** (6), 2113 (2007).
70. MERMILLIOD, J.-C. et al.: *Red giants in open clusters - XIII. Orbital elements of 156 spectroscopic binaries.* *Astron. Astrophys.* **473** (3), 892 (2007).

71. MUGRAUER, M., NEUHÄUSER, R. & MAZEH, T.: *The multiplicity of exoplanet host stars - Spectroscopic confirmation of the companions GJ 3021 B and HD 27442 B, one new planet host triple-star system, and global statistics* . *Astron. Astrophys.* **469** (2), 755 (2007).
72. NORTH, J. R. et al.: *Orbital solution and fundamental parameters of σ Scorpii*. *Montly Notices of the Royal Astronomical Society* **380** (3), 1276 (2007).
73. NOVAKOVIC, B.: *Orbits for Ten visual binary stars*. *Chinese J. Astron. Astrophys.* **7** (3), 415 (2007).
74. ORLOV, V. G. et al.: *First Speckle Interferometry Measurements of Binary Stars at the OAN-Tonantzintla*. *Rev. Mex. A. A.* **43** (1), 137 (2007).
75. PRATO, L.: *A Survey for Young Spectroscopic Binary K7M4 Stars in Ophiuchus*. *Astrophys. J.* **657** (1), 338 (2007).
76. PRIBULLA, T. et al.: *Radial Velocity Studies of Close Binary Stars. XII*. *Astron. J.* **133** (5), 1977 (2007).
77. QUINTANA, E. V. et al.: *Terrestrial Planet Formation around Individual Stars within Binary Star Systems* . *Astrophys. J.* **660** (1), 807 (2007).
78. REIPURTH, B. et al.: *Visual Binaries in the Orion Nebula Cluster* *Astron. J.* **134** (6), 2272 (2007).
79. ROBERTS, L. C. Jr., TURNER, N. H. & TEN BRUMMELAAR, T. A. : *Adaptive Optics Photometry and Astrometry of Binary Stars. II. A Multiplicity Survey of B Stars* *Astron. J.* **133** (2), 545 (2007).
80. ROELOFS, G. H. A. et al.: *On the orbital periods of the AM CVn stars HP Librae and V803 Centauri*. *Montly Notices of the Royal Astronomical Society* **379** (1), 176 (2007).
81. RUCINSKI, S. M., PRIBULLA, T. & VAN KERKWIJK, M. H.: *Contact Binaries with Additional Components. III. A Search Using Adaptive Optics* *Astron. J.* **134** (6), 2353 (2007).
82. SANA, H., RAUW, G & GOSSET, E.: *Constraining the Fundamental Parameters of the O-Type Binary CPD -41 7733*. *Astrophys. J.* **659** (2), 1582 (2007).
83. SCARDIA, M. et al.: *The orbit of the visual binary ADS 8630 (γ Vir)*. *Astron. Nach.* **328** (2), 146 (2007).
84. SCARDIA, M. et al.: *Speckle observations with PISCO in Merate - III. Astrometric measurements of visual binaries in 2005 and scale calibration with a grating mask*. *Montly Notices of the Royal Astronomical Society* **374** (3), 965 (2007).
85. SCARFE, C. D., GRIFFIN, R. F. & GRIFFIN, R. E. M.: *The double-lined spectroscopic binary HR 6046*. *Montly Notices of the Royal Astronomical Society* **376** (4), 1671 (2007).

86. SIEGLER, N. et al.: *Discovery of a 66 mas Ultracool Binary with Laser Guide Star Adaptive Optics* *Astron. J.* **133** (5), 2320 (2007).
87. SINACHOPOULOS, D. et al.: *CCD astrometry and components instrumental magnitude difference of 432 Hipparcos wide visual double stars.* *Astron. Astrophys.* **472** (3), 1055 (2007).
88. SÖDERHJELM, S.: *The $q = 1$ peak in the mass-ratios for Hipparcos visual binaries.* *Astron. Astrophys.* **463** (2), 683 (2007).
89. TERRELL, D., MUNARI, U. & SIVIERO, A.: *Observational studies of early-type binary stars: VV Orionis.* *Montly Notices of the Royal Astronomical Society* **374** (2), 530 (2007).
90. TOBAL, T.: *Measures of 1027 neglected visual double stars.* *The Webb Soc. Double Star Section Cir.* **15**, 29 (2007).
91. TOKOVININ, A. A. & GORYNYA, A. A.: *New spectroscopic components in multiple systems. V.* *Astron. Astrophys.* **465** (1), 257 (2007).
92. TOMKIN, J., GRIFFIN, R. F. & ALZNER, A.: *Orbits of Hyades multiple-lined spectroscopic binaries - Paper 5: The quadruple system HD 30869 (van Beuren 124).* *The Observatory* **127**, 87 (2007).
93. TORRES, G.: *Astrometric-Spectroscopic Determination of the Absolute Masses of the HgMn Binary Star ϕ Herculis* *Astron. J.* **133** (6), 2684 (2007).
94. TORRES, G.: *Hipparcos Astrometric Orbit and Evolutionary Status of HR 6046* *Astron. J.* **134** (5), 1916 (2007).
95. TORRES, G., LATHAM, D. W. & STEFANIK, R. P.: *Cross-Correlation in Four Dimensions: Application to the Quadruple-lined Spectroscopic System HD 110555* *Astrophys. J.* **662** (1), 602 (2007).
96. VERRIER, P. E. & EVANS, N. W.: *Planetary stability zones in hierarchical triple star systems.* *Montly Notices of the Royal Astronomical Society* **382** (4), 1432 (2007).
97. WU, Y., MURRAY, N. W. & RAMSAHAI, J. M.: *Hot Jupiters in Binary Star Systems* *Astrophys. J.* **670** (1), 820 (2007).
98. ZAVALA, R. T. et al: *The Mercury-Manganese Binary Star Herculis: Detection and Properties of the Secondary and Revision of the Elemental Abundances of the Primary.* *Astrophys. J.* **655** (2), 1046 (2007).
99. ZHAO, M. et al: *Physical Orbit for λ Virginis and a Test of Stellar Evolution Models.* *Astrophys. J.* **659** (1), 626 (2007).

Errata in Information Circular No. 163

Dr. W. I. Hartkopf noted in the entry for WDS 04093-0756 (A 469), the value of the semi-major axis **a** should be 0.2986 arcsec, rather than 2.435

The deadline for contributions to Information Circular No. 165 is:

June 15th 2008

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