

## INTERNATIONAL ASTRONOMICAL UNION COMMISSION 26

## (DOUBLE STARS)

## INFORMATION CIRCULAR No. 152 (FEBRUARY 2004)

## NEW ORBITS

ADS $\alpha$ 2000 $\delta$	Name n	P a	T i	e $\omega$	$\Omega$ (2000) Last ob.	2004 2005	Author(s)
854 01023+0552	A 2003 4°3520	82 <sup>y</sup> 72 0 <sup>''</sup> 197	2004.87 72°4	0.109 61°7	133°0 1998.7800	157°9 0 <sup>''</sup> 106 163.0 0.094	DOCOBO & LING
04464+4221	COU 2031 18.2556	19.72 0.160	1987.50 84.3	0.208 169.6	147.9 1998.109	218.9 0.016 312.9 0.050	MANTE
6828 08285-0231	A 551 AB 6.5802	54.71 0.284	2001.88 83.8	0.428 211.4	62.4 1999.8836	257.6 0.066 285.8 0.029	DOCOBO & LING
8231 11363+2747	STF 1555 AB 0.4390	820.00 1.909	2025.20 86.0	0.677 33.6	150.0 2002.164	148.3 0.694 148.4 0.694	DOCOBO & LING
15088-4517	SEE 219 AB 4.8946	73.55 0.275	2072.14 73.8	0.552 302.8	22.7 1996.1815	30.5 0.163 33.7 0.163	DOCOBO & LING
15513-0305	CHR 51 26.5879	13.54 0.184	1981.04 103.6	0.915 79.2	61.3 1991.3298	161.9 0.076 144.9 0.067	MANTE
15971 22288-0001	STF 2909 AB 0.6131	587.18 3.847	1973.39 138.2	0.396 255.9	129.8 2001.6821	181.6 2.071 180.2 2.095	OLEVIC & CVETKOVIC
22344+2623	COU 540 1.3724	262.32 0.282	1926.16 0.9	0.285 162.5	13.5 1996.628	310.1 0.324 311.1 0.325	MANTE
16130 22384-0754	A 2695 2.5773	139.68 0.235	2012.63 71.4	0.502 184.7	111.6 1995.7598	261.0 0.081 266.6 0.087	OLEVIC & CVETKOVIC
23474-7118	FIN 375 Aa 2.5118	143.32 0.168	2038.07 63.6	0.419 284.6	20.6 1991.25	188.5 0.175 189.5 0.175	OLEVIC & CVETKOVIC

1. ALENCAR, S. H. P. et al.: *The pre-main sequence spectroscopic binary AK Scorpii revisited*. *Astron. Astrophys.* **409** (3), 1037 (2003).
2. ANDRADE, M. & DOCOBO, J. A.: *Orbital Dynamics Analysis of Binary Systems in Mass-Loss Scenarios*. *Rev. Mex. A. C.* **15**, 223 (2003).
3. ARGYLE, R. W. & COURTOUT, J.-F.: *Micrometric measures of double stars from 2002.0 to 2003.0*. *The Webb Soc. Double Star Section Cir.* **11**, 2 (2003).
4. BARSONY, M.; KORESKE, C. & MATTHEWS K.: *A Search for Close Binaries in the Ophiuchi Star-forming Region*. *Astrophys. J.* **591** (2), 1064 (2003).
5. BEUST, H.: *Symplectic integration of hierarchical stellar systems*. *Astron. Astrophys.* **400** (3), 1129 (2003).
6. BOFFIN, H. M. J. & POURBAIX, D.: *HD 112914: a nearby one-solar-mass binary system*. *The Observatory* **123**, 126 (2003).
7. BOUY, H. et al.: *Multiplicity of Nearby Free-Floating Ultracool Dwarfs: A Hubble Space Telescope WFPC2 Search for Companions*. *Astron. J.* **126** (3), 1526 (2003).
8. BRANDEKER, A.; Ray JAYAWARDHANA, R. & NAJITA, J.: *Keck Adaptive Optics Imaging of Nearby Young Stars: Detection of Close Multiple Systems*. *Astron. J.* **126** (4), 2009 (2003).
9. BUDAJ, J. & ILIEV, I. K.: *Abundance analysis of Am binaries and search for tidally driven abundance anomalies I. HD 33254, HD 178449 and HD 198391*. *Monthly Notices* **346** (1), 27 (2003).
10. BURGASSER, A. J. et al.: *Binarity in Brown Dwarfs: T Dwarf Binaries Discovered with the Hubble Space Telescope Wide Field Planetary Camera 2*. *Astrophys. J.* **586** (1), 512 (2003).
11. CANTAZARO, G.; LEONE, F. & LETO, P.: *HD 191110 a SB2 system with HgMn and Hg components - Orbital elements and abundance analysis*. *Astron. Astrophys.* **407** (2), 669 (2003).
12. CARQUILLAT, J.-M.; PRIEUR, J.-L. & GINESTET, N.: *Contribution to the study of composite spectra IX. Spectroscopic orbital elements of 10 systems*. *Monthly Notices* **342** (4), 1271 (2003).
13. CARQUILLAT, J.-M. et al.: *Contribution to the search for binaries among Am stars V. Orbital elements of eight short-period spectroscopic binaries*. *Monthly Notices* **346** (2), 555 (2003).
14. CHEREPASHCHUK, A. M. & KARETNIKOV, V. G.: *Evolution of WolfRayet Stars in Binary Systems: An Analysis of the Mass and Orbital-Eccentricity Distributions*. *Astron. Reports* **47** (1), 38 (2003).

15. CLOSE, L. M. et al.: *Detection of Nine M8.0L0.5 Binaries: The Very Low Mass Binary Population and Its Implications for Brown Dwarf and Very Low Mass Star Formation* *Astrophys. J.* **587** (1), 407 (2003).
16. CORREIA, S.; RICCHICI, A. & SCHÖLLER, M.: *Prospects of high angular resolution measurements of binary stars properties with VLTI*. *Astrophys. Space Science* **286** (1-2), 191 (2003).
17. CORTI, M.; NIEMELA, V. & MORRELL, N.: *LSS 1135: An O-type spectroscopic binary in the galactic OB association Bochum 7*. *Astron. Astrophys.* **405** (2), 571 (2003).
18. DOCOBO, J. A.: *Some Integrable Cases of the Two-Body Problem with Mass Depending Both on Time and Distance*. *Astron. Letters* **29** (5), 344 (2003).
19. DOCOBO, J. A. & LING, J. F.: *Orbits and masses of twenty double stars discovered by Paul Couteau*. *Astron. Astrophys.* **409** (3), 989 (2003).
20. DOCOBO, J. A. et al.: *Orbit and System Mass for the Visual Binary WDS 23186 +6807 AB*. *Astron. J.* **126** (3), 1522 (2003).
21. DRUMMOND, J.; MILSTER, S.; RYAN, P. & ROBERTS, L. C. Jr.:  *$\iota$  Cassiopeiae: Orbit, Masses, and Photometry from Adaptive Optics Imaging in the I and H Bands*. *Astrophys. J.* **585** (2), 1007 (2003).
22. GATEWOOD, G.; COBAN, L. & HAN, I.: *An astrometric study of the low-mass binary star ROSS 614*. *Astron. J.* **125** (3), 1530 (2003).
23. GINESTET, N. et al.: *Contribution to the search for binaries among Am stars IV. HD 100054B and 187258*. *Monthly Notices* **342** (1), 61 (2003).
24. GIZIS, J. E. et al.: *Hubble Space Telescope Observation of Binary Very Low Mass Stars and Brown Dwarfs*. *Astron. J.* **125** (6), 3302 (2003).
25. GOLDBERG, J.; MAZEH, T. & LATHAM, D. W.: *On the Mass-Ratio Distribution of Spectroscopic Binaries*. *Astrophys. J.* **591** (1), 397 (2003).
26. GRIFFIN, R. F. & SUCHKOV, A. A.: *The Nature of Overluminous F Stars Observed in a Radial-Velocity Survey*. *Astrophys. J. Suppl. Ser.* **147** (1), 103 (2003).
27. HALBWACHS, L.; MAYOR, M.; UDRY, S. & ARENOU, F.: *Multiplicity among solar-type stars III. Statistical properties of the F7-K binaries with periods up to 10 years* *Astron. Astrophys.* **397** (1), 159 (2003).
28. HARTIGAN, P. & KENYON, S. J.: *A Spectroscopic Survey of Subarcsecond Binaries in the Taurus-Auriga Dark Cloud with the Hubble Space Telescope*. *Astrophys. J.* **583** (1), 334 (2003).

29. HUMMEL, C. A. et al.: *First observations with a co-phased six-station optical Long-Baseline Array: Application to the Triple Star  $\eta$  Virginis* . Astron. J. **125** (5), 2630 (2003).
30. ISMAILOV, N. Z.: *The Herbig Ae/Be Star HD 200775 as a Spectroscopic Binary*. Astron. Reports **47** (3), 206 (2003).
31. JAO, W-C. et al.: *The solar neighborhood. VII. Discovery and characterization of nearby multiples in the CTIO parallax investigation*. Astron. J. **125** (1), 332 (2003).
32. JENSEN, E. L. N. & AKESON, R. L.: *Protoplanetary Disk Mass Distribution in Young Binaries*. Astrophys. J. **584** (2), 875 (2003).
33. KAPLAN, G. H. & MAKAROV, V. V.: *Astrometric detection of binary companions and planets: Acceleration of proper motion*. Astron. Nach. **324** (5), 419 (2003).
34. KERVELLA, P. et al.: *The diameters of Centauri A and B - A comparison of the asteroseismic and VINCI/VLTI views*. Astron. Astrophys. **404** (3), 1087 (2003).
35. KERVELLA, P. et al.: *The interferometric diameter and internal structure of Sirius A*. Astron. Astrophys. **408** (2), 681 (2003).
36. KISELEV, A. A. & KIYAEVA, O. V.: *Determining the Minimum Sum of the Component Masses for a Binary with a Known Parallax from Observations of a Short Arc of Its Apparent Motion*. Astron. Letters **29** (1), 37 (2003).
37. KOENIGSBERGER, G.; MOFFAT, A. F. J. & AUER, L. H. : *Ultraviolet Spectroscopy of the Massive LMC Multiple Systems Sk-67-18 (Br 5) and HD 36402 (Br 31)*. Rev. Mex. A. A. **39** (2), 213 (2003).
38. LOINARD, L., RODRIGUEZ, L. F. & RODRIGUEZ, M. I.: *Ejection of a Low-Mass Star in a Young Stellar System in Taurus*. Astrophys. J. Lett. **587** (1), L47 (2003).
39. LUK'YANOV, L. G.; NASONOVA, L. P. & SHIRMIN, G. I.: *Hill Stability in the Many-Body Problem*. Astron. Letters **29** (4), 274 (2003).
40. LUK'YANOV, L. G.; NASONOVA, L. P. & SHIRMIN, G. I.: *The LagrangeJacobi Equation in the Finite-Size Many-Body Problem*. Astron. Letters **29** (9), 635 (2003).
41. MARTIN, E. L.: *A New Multiple Stellar System in the Solar Neighborhood* . Astron. J. **126**, (2) 918 (2003)
42. MAZEH, T. et al.: *The Mass Ratio Distribution in Main-Sequence Spectroscopic Binaries Measured by Infrared Spectroscopy*. Astrophys. J. **599** (2), 1344 (2003).
43. McSWAIN, M. V.: *The Massive Triple Star System HD 16429 A* . Astrophys. J. **595**, (2) 1124 (2003).
44. MELO, C. H. F.: *The short period multiplicity among T Tauri stars*. Astron. Astrophys. **410** (1), 269 (2003).

45. MEYER, R. D.: *Binary Star Speckle Photometry and Astrophysical Implications*. Pub. Astron. Soc. of the Pacific **115** (810), 1019 (2003).
46. NURMI, P. & BOFFIN, H. M. J.: *Observational properties of visual binaries as modelled using a synthetic catalogue - I. For visual apparent magnitudes  $m_v < 15$* . Astron. Astrophys. **408** (2), 803 (2003).
47. POURBAIX, D. & BOFFIN, H. M. J.: *Reprocessing the Hipparcos Intermediate Astrometric Data of spectroscopic binaries - II. Systems with a giant component*. Astron. Astrophys. **398** (3), 1163 (2003).
48. POURBAIX, D. et al.: *How many Hipparcos Variability-Induced Movers are genuine binaries?*. Astron. Astrophys. **399** (3), 1167 (2003).
49. PRATO, L.; GREENE, T. P. & SIMON, M.: *Astrophysics of Young Star Binaries*. Astrophys. J. **584** (2), 853 (2003).
50. PRIEUR, J.-L. et al.: *Speckle Observations of Composite Spectrum Stars. II. Differential Photometry of the Binary Components*. Astrophys. J. Suppl. Ser. **144** (2), 263 (2003).
51. RAGUZOVA, N. V.: *Population Synthesis of Rapidly Rotating Main-Sequence Stars with Companions*. Astron. Reports **47** (5), 401 (2003).
52. RANSOM, R. R. et al.: *Very Long Baseline Interferometry Imaging of the RS Canum Venaticorum Binary Star System HR 5110*. Astrophys. J. **587** (1), 390 (2003).
53. RUCINSKI, S. M. et al.: *Radial Velocity Studies of Close Binary Stars. VIII*. Astron. J. **125** (6), 3258 (2003).
54. SCHAEFER G. H. et al.: *Dynamical Masses of Young Stars in Multiple Systems*. Astron. J. **126** (4), 1971 (2003).
55. SCHERTL, D. et al.: *Orbital motion of the massive multiple stars in the Orion Trapezium*. Astron. Astrophys. **402** (1), 267 (2003).
56. STERZIK, M. F.; DURISEN, R. H. & ZINNECKER, H.: *How do binary separations depend on cloud initial conditions?* Astron. Astrophys. **411** (2), 91 (2003).
57. TAYLOR, S. T.; HARVIN, J. A. & McALISTER, H. A.: *The CHARA Catalog of Orbital Elements of Spectroscopic Binary Stars*. Pub. Astron. Soc. of the Pacific **115** (807), 609 (2003).
58. TOKOVININ, A. et al.: *Fundamental parameters and origin of the very eccentric binary 41 Dra*. Astron. Astrophys. **409** (1), 245 (2003).
59. TORRES, G. et al.: *Radial velocity survey of members and candidate members of the TW Hydrae association*. Astron. J. **125** (2), 825 (2003).

60. VALTONEN, M. J. et al.: *Dynamics of Rotating Triple Systems*. Astron. Letters **29** (1), 41 (2003).
61. WOITAS J. et al.: *Visual orbit for the low-mass binary Gliese 22 AC from speckle interferometry*. Astron. Astrophys. **406** (1), 293 (2003).
62. WOITAS J.: *A fourth component in the young multiple system V 773 Tauri*. Astron. Astrophys. **406** (2), 685 (2003).

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The deadline for contributions to Information Circular No. 153 is:

June 15th 2004

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