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The bibliographical entries for *Individual Stars* and *Collections of Data*, as well as a few *General* entries, are categorized according to the following coding scheme. Data from archives or databases, or previously published, are identified with an asterisk. The observation codes in the first four groups may be followed by one of the following wavelength codes.

g.	γ-ray.	i.	infrared.	m.	microwave.	o.	optical
r.	radio	u.	ultraviolet	x.	x-ray		

1. Photometric data

a. CCD b. Photoelectric c. Photographic d. Visual

2. Spectroscopic data

a. Radial velocities b. Spectral classification c. Line identification d. Spectrophotometry

3. Polarimetry

a. Broad-band b. Spectropolarimetry

4. Astrometry

a. Positions and proper motions b. Relative positions only c. Interferometry

5. Derived results

a. Times of minima
b. New or improved ephemeris, period variations
c. Parameters derivable from light curves
d. Elements derivable from velocity curves
e. Absolute dimensions, masses
f. Apsidal motion and structure constants
g. Physical properties of stellar atmospheres
h. Chemical abundances
i. Accretion disks and accretion phenomena
j. Mass loss and mass exchange
k. Rotational velocities

6. Catalogues, discoveries, charts

a. Catalogues
b. Discoveries of new binaries and novae
c. Identification of optical counterparts of γ-ray, x-ray, IR, or radio sources
d. Finding charts

7. Observational techniques

a. New instrument development
b. Observing techniques
c. Reduction procedures
d. Data-analysis techniques

8. Theoretical investigations

a. Structure of binary systems
b. Circumstellar and circumbinary matter
c. Evolutionary models
d. Loss or exchange of mass and/or angular momentum

9. Statistical investigations

10. Miscellaneous

a. Abstract b. Addenda or errata

Abbreviations

AD	accretion disk	HMXB	high-mass x-ray binary	QPO	quasi-periodic oscillation
BH	black hole	IP	intermediate polar	RV	radial velocity
CB	close binary	LC	light curve	SB	spectroscopic binary
CV	cataclysmic variable	LMXB	low-mass x-ray binary	WD	white dwarf
EB	eclipsing binary	NS	neutron star	WR	Wolf-Rayet star

Individual Stars

PQ And	*Patterson, J. et al.* (5 authors) 2005, PASP 117, 922. (1oi, 4a) Non-radial pulsation in WZ Sge-type system. *Vanlandingham, K.M., Schwarz, G.J., Howell, S.B.* 2005, PASP 117, 928. (1ao) Non-radial pulsations in WZ Sge-type system.
R Aqr	*Yang, H.-J. et al.* (4 authors) 2005, A&A 435, 207. (1o*, 5j) Korean nova records from AD 1073 and AD 1074.
AE Aqr	*Abada-Simon, M. et al.* (16 authors) 2005, A&A 433, 1063. (2dir, 5ig) CV. *Meintjes, P.J., Venter, L.A.* 2005, MNRAS 360, 573. (1ai, 1r, 5bcdegij, 8abd) Investigation of the propeller mechanism.
V603 Aql	*Mukai, K., Orio, M.* 2005, ApJ 622, 602. (2cx) Find a high plasma density and compact emission region.
V1331 Aql	*Lorenz, R., Mayer, P., Drechsel, H.* 2005, MNRAS 360, 915. (1ao, 2a, 5abcdeg) Photometric and spectroscopic study.
V1343 Aql (SS 433)	*Aharonian, F. et al.* (53 authors) 2005, A&A 439, 635. (1g) TeV γ-ray observations. *Blundell, K.M., Bowler, M.G.* 2005, ApJ 622, L129. (2co*) Anticorrelation with jet speed and precession cone angle. *Chakrabarti, S.K.* 2005, Bull. Astron. Soc. India 33, 109. (1iorx, 2o) Summary of a multiwavelength campaign from radio to x-ray. *Cherepashchuk, A.M. et al.* (21 authors) 2005, A&A 437, 561. (1ao, 1ax, 5j) Coordinated optical/x-ray observations. *Migliari, S. et al.* (5 authors) 2005, MNRAS 358, 860. (1ax, 5cg, 8ac) Rapid variability of x-ray jets. *Moldowan, A., Safi-Harb, S.* 2005, JRASC 99, 141. (1x, 5i, 10a) *Nandi, A. et al.* (4 authors) 2005, MNRAS 359, 629. (1bx, 2c, 5cg) x-ray observation with RXTE.
V1405 Aql (4U 1915−05)	*Šimon, V.* 2005, A&A 436, 263. (2x*, 5j) Analysis of long-term x-ray activity.
V1487 Aql (GRS 1915+105)	*Zdziarski, A.A. et al.* (5 authors) 2005, MNRAS 360, 825. (1abx, 2cgi) Study of radiative processes and energy-dependent variability.
V1494 Aql	*Kamath, U.S. et al.* (5 authors) 2005, MNRAS 361, 1165. (2abcdio, 5ghk) Optical and near-infrared spectroscopy. *Eyres, S.P.S. et al.* (6 authors) 2005, MNRAS 358, 1019. (1r, 2bc, 5cgj, 8a) Mass outflow and inclined rings in the ejecta.
V1663 Aql	2005, IAU Circ. 8540 (1c, 4a, 6b) Possible new nova. 2005, IAU Circ. 8542 (10b) Actually a USNO-B1.0 star. 2005, IAU Circ. 8544 (2c) Designation of a peculiar nova.
V539 Ara	*Wolf, M., Zejda, M.* 2005, A&A 437, 545. (1bo, 5af)
V821 Ara (GX 339-4)	*Belloni, T. et al.* (8 authors) 2005, A&A 440, 207. (1x, 2x) *Homan, J. et al.* (6 authors) 2005, ApJ 624, 295. (2ciox) Two patterns of X-ray-optical/near infrared behaviour.
α Aur	*Kraus, S. et al.* (14 authors) 2005, AJ 130, 246. (4ci) Infrared aperture synthesis with IOTA interferometer.
12 Boo	*Boden, A.F., Torres, G., Hummel, C.A.* 2005, ApJ 627, 464. (2a, 4a, 5e, 8c)

CK Boo	*Kalci, R., Derman, E.* 2005, Astron. Nachr. 326, 342. (1bo, 5bce) W UMa system with mass ratio 0.12.
Z Cam	*Hartley, L.E. et al.* (4 authors) 2005, ApJ 623, 425. (2cu, 5h) Observed in quiescence and standstill.
BQ Cam	*Baykal, A., Kiziloglu, U., Kiziloglu, N.* 2005, IBVS 5615. (1a) Optical observations using ROTSE3d.
HT Cam	*de Martino, D. et al.* (8 authors) 2005, A&A 437, 935. (1ax, 1ao) Confirmed polar CV.
	Evans, P.A., Hellier, C. 2005, MNRAS 359, 1531. (1aoux, 5cgi) The simplest intermediate polar spin pulse.
SY Cnc	*Smith, R.C. et al.* (4 authors) 2005, MNRAS 360, 364. (1aio, 2ab, 5abcdeg) Spectroscopic and photometric study.
GW Cnc	*Terrell, D., Gross, J., Cooney, W.R.* 2005, IBVS 5625. (1a, 5c) W-type W UMa System with complete eclipses.
HL CMa	*Sheets, H.A., Thorstensen, J.R.* 2005, PASP 117, 741. (2ado)
DF CVn	*Acerbi, F., Barani, C., Martignoni, M.* 2005, Astron. Nachr. 326, 338. (1ao, 5ace) Spotted W UMa system.
DK CVn	*Terrell, D. et al.* (10 authors) 2005, IBVS 5642. (1a, 5a) Variability in strongly interacting binary.
Y Car	*Evans, N.R. et al.* (5 authors) 2005, AJ 130, 789. (2au) Rapid RV change of companion to double-mode Cepheid indicates companion itself is double.
AO Cas	*Arias, M.L. et al.* (4 authors) 2005, PASP 117, 730. (2du, 5gj) Discrete absorption features from escaping material.
V635 Cas	*Baykal, A. et al.* (5 authors) 2005, A&A 439, 1131. (1ao, 1x) Outburst correlation.
V664 Cas	*Exter, K.M. et al.* (5 authors) 2005, MNRAS 359, 315. (1aio, 2abc, 5abcdeg) Spectroscopic and photometric study.
V705 Cas	*Evans, A. et al.* (6 authors) 2005, MNRAS 360, 1483. (1ai, 5cgi, 8b) Infrared spectroscopy and closer look at the dust.
V723 Cas	*Heywood, I. et al.* (5 authors) 2005, MNRAS 362, 469. (1r, 5ceg) Analysis of *MERLIN* observations.
MP Cen	*Terrell, D. et al.* (4 authors) 2005, MNRAS 360, 583. (1aio, 2ab, 5abcdegk) Spectroscopic and photometric study.
V1047 Cen	2005, IAU Circ. 8596 (1c, 2c, 4a, 6b) New classical nova.
CQ Cep	*Villar-Sbaffi, A. et al.* (4 authors) 2005, ApJ 623, 1092. (3ao, 5cdj) Polarimetric detection of wind-wind interaction.
EG Cep	*Erdem, A. et al.* (6 authors) 2005, Astron. Nachr. 326, 332. (1bo, 5bc)
V371 Cep	*Gondoin, P.* 2005, A&A 438, 291. (1x, 6c) XR Detection of NGC 188 member.
V372 Cep	*Gondoin, P.* 2005, A&A 438, 291. (1x, 6c) XR Detection of NGC 188 member.
V691 CrA (2A 1822−371)	*Hutchings, J.B. et al.* (5 authors) 2005, AJ 130, 210. (2adu, 5gi)
σ^2 CrB	*Suh, J.A. et al.* (4 authors) 2005, ApJ 630, 1074. (1x, 2x)
TV Crv	*Uemura, M. et al.* (12 authors) 2005, A&A 432, 261. (1a, 5i) Dwarf nova, superhump period, disk instability model.
BP Cru	*La Barbera, A. et al.* (5 authors) 2005, A&A 438, 617. (2cx) Spectral

(GX 301-2)	variability.
BR Cyg	*Terrell, D., Gross, J.* 2005, IBVS 5646. (1a, 5c) Partial primary eclipses.
KR Cyg	*Sipahi, E.* 2005, IBVS 5635. (1b, 5b) 2004 UBVR photometry.
V346 Cyg	*Kim, S.-L. et al.* (5 authors) 2005, IBVS 5628. (1a, 5c, 6b) Short-periodic pulsating component.
V387 Cyg	*Manimanis, V.N., Niarchos, P.G.* 2005, IBVS 5624. (1a, 5a) First CCD BVRI LC.
V1357 Cyg (Cyg X-1)	*Axelsson, M., Borgonovo, L., Larsson, S.* 2005, A&A 438, 999. (1x*, 2x*, 5i)
(HDE 226868)	*Gallo, E. et al.* (7 authors) 2005, Nature 436, 819. (1r, 5ij) A dark jet dominates the power output of the stellar BH.
	Lachowicz, P., Czerny, B. 2005, MNRAS 361, 645. (1bx*, 5bcgi) Wavelet analysis of millisecond variability.
	Zhang, M.-X., Qu, J.-L. 2005, Chinese Astron. Ap. 29, 131. (8) Properties of x-ray short bursts (shots) in the high state.
	Zioólkowski, J. 2005, MNRAS 358, 851. (1x*, 5eg, 8ac) Modelling the evolution.
V1521 Cyg (Cyg X-3)	*Martí, J. et al.* (5 authors) 2005, A&A 439, 279. (1r*) Hot spots excited by relativistic jets.
V1974 Cyg	*Sala, G., Hernanz, M.* 2005, A&A 439, 1057. (1x*, 8c)
	Vanlandingham, K.M. et al. (5 authors) 2005, ApJ 624, 914. (2bo*u*, 5hj) Physical parameters and new elemental abundances.
V2361 Cyg	2005, IAU Circ. 8511 (1a) Magnitudes of nova.
	2005, IAU Circ. 8524 (2ci) Spectroscopic features.
	2005, IAU Circ. 8529 (2ci)
AV Del	*Mader, J.A. et al.* (4 authors) 2005, AJ 130, 234. (1ao, 2ao, 5abcde)
YY Dra	*Hoard, D.W. et al.* (4 authors) 2005, AJ 130, 214. (2du, 5gi)
EV Dra	*Fekel, F.C., Henry, G.W., Lewis, C.* 2005, AJ 130, 794. (1bo, 2ao, 5cde)
U Gem	*Naylor, T., Allan, A., Long, K.S.* 2005, MNRAS 361, 1091. (2abc, 5deg) Determination of masses, radii and luminosities.
68u Her	*Hilditch, R.W.* 2005, Observatory 125, 72. (1*, 2a, 5cde)
AM Her	*Kafka, S. et al.* (4 authors) 2005, AJ 129, 2411. (1ao, 5i) Flares in low state.
HS Her	*Colak, T., Muyesseroglu, Z.* 2005, IBVS 5619. (5abf) No third body in this EB.
HZ Her (Her X-1)	*İnam, S.C., Baykal, A.* 2005, MNRAS 361, 1393. (1bx, 2cd, 5cg) X-ray spectral evolution.
	Jimenez-Garate, M.A. et al. (4 authors) 2005, ApJ 625, 931. (2bx, 5i) Extended AD corona, density measurement, CNO abundances.
	Leahy, D. 2005, JRASC 99, 139. (1r, 8b, 10a)
V660 Her	*Olech, A. et al.* (6 authors) 2005, Acta Astronomica 55, 237. (1a, 5b, 6d) CCD photometry of dwarf nova.
V857 Her	*Qian, S.-B. et al.* (6 authors) 2005, AJ 130, 1206. (1ao, 5abc) Lowest mass ratio for over-contact system.
TT Hya	*Budaj, J., Richards, M.T., Miller, B.* 2005, ApJ 623, 411. (2co*, 8b) Synthetic and observed H alpha spectra.

EX Hya	*Belle, K.E. et al.* (8 authors) 2005, AJ 129, 1985. (1box, 2ado, 5i) Simultaneous x-ray and optical observations of IP; extended bulge on accretion disk.
	Hoogerwerf, R., Brickhouse, N.S., Mauche, C.W. 2005, ApJ 628, 946. (1x, 5i)
VW Hyi	*Godon, P., Sion, E.M.* 2005, MNRAS 361, 809. (1au, 5egik) The boundary layer luminosity in quiescence.
BS Ind	*Guenther, E.W. et al.* (5 authors) 2005, A&A 433, 629. (6b) Triple system.
IL Lac	*Agerer, F., Berthold, T.* 2005, IBVS 5621. (1a, 5ab) EB with displaced secondary minimum.
DG Leo	*Lampens, P. et al.* (10 authors) 2005, A&A 438, 201. (1bo, 5g) Multisite campaign.
FH Leo	*Dall, T.H. et al.* (4 authors) 2005, A&A 438, 317. (2ao, 2c) Misclassication as novalike.
ϵ Lup	*Uytterhoeven, K. et al.* (4 authors) 2005, A&A 440, 249. (2ao, 5bf) β Cep component.
GG Lup	*Wolf, M., Zejda, M.* 2005, A&A 437, 545. (1bo, 5af)
GQ Lup	*Neuhäuser, R.* 2005, Sterne und Weltraum 9/2005, 24. (4bci) Companion is a brown dwarf or planet?
β Lyr	*Skulsky, M., Plachinda, S.* 2005, KFNT Suppl. 237 (2c) Magnetic field of β Lyr.
MV Lyr	*Linnell, A.P. et al.* (7 authors) 2005, ApJ 624, 923. (2cou*,5i) Observed in low,intermediate and high states.
AR Mon	*Williamon, R.M. et al.* (5 authors) 2005, AJ 129, 2798. (1bo, 2a, 5cde)
KQ Mon	*Schmidtobreick, L. et al.* (4 authors) 2005, IBVS 5627. (2a, 5d) Orbital period of 3.08 h.
V578 Mon	*Pavlovski, K., Hensberge, H.* 2005, A&A 439, 309. (2co*, 5h)
V838 Mon	*Banerjee, D.P.K. et al.* (4 authors) 2005, ApJ 627, L141. (2i) Water lines in nova.
	Carlqvist, P. 2005, A&A 436, 231. (5i, 8b) Model of double helix structure in nova.
	Deguchi, S. 2005, PASJ 57, L25. (2cr) Detection of SiO maser emission.
	Tylenda, R. 2005, A&A 436, 1009. (5ac) Nova evolution. (1bo, 5af)
TV Mus	*Qian, S.-B. et al.* (6 authors) 2005, AJ 130, 224. (1ao*, 5abc)
V382 Nor	2005, IAU Circ. 8497 (1ac, 2c, 4a, 6b) New nova.
	2005, IAU Circ. 8495 (1d, 4a)
V2301 Oph	*Reynolds, A.P. et al.* (7 authors) 2005, A&A 435, 225. (1o) AM Her system.
V2540 Oph	*Ak, T., Retter, A., Liu, A.* 2005, Publ. Astron. Soc. Australia 22, 298. (Nova 2002) (1ao) Determination of the orbital period and estimation of some other quantitites.
V1647 Ori	2005, IAU Circ. 8600 (2c) Long outburst.
IP Peg	*Saito, R.K., Baptista, R., Horne, K.* 2005, A&A 433, 1085. (2du, 5g) Dwarf nova.
GK Per	*Balman, S.* 2005, ApJ 627, 933. (2x) Shell observations.
(Nova 1901)	*Vrielmann, S., Ness, J.-U., Schmitt, J.H.M.M.* 2005, A&A 439, 287. (2cx) X-ray source model.

IK Per	*Zhu, L.-Y. et al.* (4 authors) 2005, AJ 129, 2806. (1ao, 5bc) Over-contact system.
IU Per	*Kim, S.-L. et al.* (5 authors) 2005, IBVS 5629. (1a, 5c, 6b) Short-periodic pulsating component.
XY Pic	*Dall, T. H.* 2005, IBVS 5617. (2b) Detached binary misclassified as W UMa system.
UV Psc	*Rao, P.V., Pendharkar, J.K.* 2005, Ap&SS 298, 461. (5cde)
V Pup	*Ashok, N.M.* 2005, Bull. Astron. Soc. India 33, 75. (2ci) A prospective candidate for the helium nova.
V574 Pup	*Siviero, A., Munari, U., Jones, A.F.* 2005, IBVS 5638. (1a, 2d, 6d) Spectrophotometry and LC of Nova Pup 2004.
WX Pyx	*Schlegel, E.M.* 2005, A&A 433, 635. (2dx) IP.
FN Sgr	*Brandi, E. et al.* (7 authors) 2005, A&A 440, 239. (1ao, 2ao, 5e)
V526 Sgr	*Wolf, M., Zejda, M.* 2005, A&A 437, 545. (1bo, 5af)
V4332 Sgr	*Banerjee, D.P.K.* 2005, Bull. Astron. Soc. India 33, 81. (2cio) Causes of an outburst of this peculiar nova.
	Tylenda, R. et al. (4 authors) 2005, A&A 439, 651. (1ao, 2c) Stellar merger scenario.
V4641 Sgr (XTE J1819−254)	*Uemura, M. et al.* (19 authors) 2005, IBVS 5626. (1a, 6d) Outburst of BH x-ray binary in July 2004.
V5115 Sgr	2005, IAU Circ. 8500 (1c, 4a, 6b) Possible new nova.
	2005, IAU Circ. 8501 (2c, 4a) Confirmed nova.
	2005, IAU Circ. 8502 (1d) Designation.
	2005, IAU Circ. 8523 (2c) Nova spectroscopic features.
V5116 Sgr	2005, IAU Circ. 8559 (1ac, 2c, 4a, 6b) Possible new nova.
	2005, IAU Circ. 8561 (1d) Designation and magnitudes.
	2005, IAU Circ. 8579 (1d, 2ci)
μ^1 Sco	*Arias, M.L. et al.* (4 authors) 2005, PASP 117, 730. (2du, 5gj) Discrete absorption features from escaping material absent.
V818 Sco (Sco X-1)	*McNamara, B.J. et al.* (6 authors) 2005, ApJ 623, 1070. (1bo) Relation between mass accretion rate and Johnson B.
V884 Sco (4U 1700−37)	*van der Meer, A. et al.* (7 authors) 2005, A&A 432, 999. (2dx) HMXB.
V1034 Sco	*Bouzid, M.Y., Sterken, C., Pribulla, T.* 2005, A&A 437, 769. (1ao, 2a*, 5e)
V1187 Sco	2005, IAU Circ. 8525 (2ci) Spectroscopic features of nova.
V1188 Sco	2005, IAU Circ. 8574 (1a, 4a, 6b) Possible new nova.
	2005, IAU Circ. 8575 (1d, 2ci) Spectroscopic features.
	2005, IAU Circ. 8576 (2c) Designation of classical nova.
	2005, IAU Circ. 8581 (1d)
RY Sct	*Men'shchikov, A., Miroshnichenko, A.* 2005, JRASC 99, 131. (8b, 10a)
V475 Sct	*Morgan, G.E. et al.* (4 authors) 2005, PASP 117, 938. (1o*, 2cd, 5j)
V378 Ser	2005, IAU Circ. 8505 (1c, 4a, 6b) Possible new nova.
	2005, IAU Circ. 8506 (1a, 2c) Designated and confirmed nova.
	2005, IAU Circ. 8509 (1d)
	2005, IAU Circ. 8527 (2ci) Spectroscopic features.
	2005, IAU Circ. 8529 (2ci)
CU Tau	*Qian, S.-B. et al.* (6 authors) 2005, AJ 130, 224. (1ao, 5abc)

V471 Tauri	*İbanoğlu, C. et al.* (4 authors) 2005, MNRAS 360, 1077. (1bou, 5abceg) Photometric study.
δ Vel	*Petr-Gotzens, M.G. et al.* (4 authors) 2005, Astron. Nachr. 326, 569. (4bc) Multiple system containing the most luminous EB.
AO Vel	*Wolf, M., Zejda, M.* 2005, A&A 437, 545. (1bo, 5af)
ER Vul	*Shkolnik, E. et al.* (5 authors) 2005, AJ 130, 799. (2ad, 5g) CaII emission in RS CVn system.
V407 Vul (RX J0806.3+1527)	*Strohmayer, T.E.* 2005, ApJ 627, 920. (1x, 2x) Frequency increase evidence for gravitational radiation.

HR, HD, HDE, BD, CoD, CPD, SAO Objects

HD 34700	*Sterzik, M.F. et al.* (4 authors) 2005, A&A 434, 671. (2ob, 5k) T Tauri multiple system.
HD 93161	*Nazé, Y. et al.* (5 authors) 2005, MNRAS 359, 688. (2abcox, 5abdeg) Spectroscopic study and orbital parameters.
HD 95559	*Pandey, J.C. et al.* (4 authors) 2005, AJ 130, 1231. (1ao, 2x, 5g) Chromospherically active binary, discussed together with two active single stars.
HD 192641	*Lefèvre, L. et al.* (15 authors) 2005, MNRAS 360, 141. (2abco, 5abdegh) Spectroscopic study and orbital parameters.
HDE 226868	(see V1357 Cyg)
HDE 232486 (HIP 7666)	*Escolà-Sirisi, E. et al.* (7 authors) 2005, A&A 434, 1063. (1ao) δ Scuti star in eclipsing system.
HDE 284414	*Tomkin, J.* 2005, Observatory 125, 232. (2a, 5d) Hyades SB2.

X-ray sources with constellation names

Cen X-1	*Hernandez, J.I.G. et al.* (7 authors) 2005, ApJ 630, 495. (2c, 5h) Secondary star of neutron star binary.
Cyg X-1	(see V1357 Cyg)
Cyg X-3	(see V1521 Cyg)
Her X-1	(see HZ Her)
Sco X-1	(see V818 Sco)

Object names including RA and DEC

PSR J0024−7204W (in 47 Tuc)	*Bogdanov, S., Grindley, J.E., van den Berg, M.* 2005, ApJ 630, 1029. (1a, 2x) Possible link between LMXRB's and MS Pulsars.
IGR J00291+5934	*Galloway, D.K. et al.* (5 authors) 2005, ApJ 622, L45. (2cx) Discovery of accretion powered pulsar.
	Jonker, P.G. et al. (8 authors) 2005, MNRAS 361, 511. (1ax, 5cgi) Analysis of *Chandra* observations.
	Shaw, S.E. et al. (11 authors) 2005, A&A 432, L13. (2dx, 5i) Comptonised accreting ms pulsar?
Hα0242−2802	*Mason, E., Howell, S.B.* 2005, A&A 439, 301. (2aco, 5bj)

V0332+53	*Zhang, S. et al.* (4 authors) 2005, ApJ 630, L65. (1x) Recovery of the orbital parameters and pulse evolution during outburst.
RXJ 0502.8+1624	*Littlefair, S.P., Dhillon, V.S., Martín, E.L.* 2005, A&A 437, 637. (2ci) Polar type CV.
RX J0513.9−6951	*Hutchings, J.B. et al.* (5 authors) 2005, AJ 129, 2792. (2du, 5i) FUSE observations.
IRAS 05361+3539 (G173.58+2.45)	*Varricatt, W.P., Davis, C.J., Adamson, A.J.* 2005, MNRAS 359, 2. (1ai, 5cgj, 8b) Multiple star formation.
A0620−00	*Hynes, R.I., Robinson, E.L., Bitner, M.* 2005, ApJ 630, 405. (8a) Observational constraints on cool disk material in quiescent black hole binaries.
J0737−3039	*Podsiadlowski, Ph. et al.* (6 authors) 2005, MNRAS 361, 1243. (5g, 8ac) Testing the neutron star equation of state.
PSR J0737−3039A	*Coles, W.A. et al.* (5 authors) 2005, ApJ 623, 392. (2cr) Constraint on inclination from scintillation near eclipse.
PSR J0737−3039B	*Burgay, M. et al.* (15 authors) 2005, ApJ 624, L113. (2cr, 5f) Long-term variations in pulse emissions.
RX J0806.3+1527	(see V407 Vul)
XTE J0929−314	*Giles, A.B. et al.* (4 authors) 2005, MNRAS 361, 1180. (1aiox*, 5g, 6c, 8a) Identification of optical counterpart.
FIRST J102347.6+003841	*Thorstensen, J.R., Armstrong, E.* 2005, AJ 130, 759. (1ao, 2ao,)
EC 11575−1845	*Exter, K.M. et al.* (5 authors) 2005, MNRAS 359, 315. (1aio, 2abc, 5abcdeg) Spectroscopic and photometric study.
SDSS J121209.31+013627.7	*Schmidt, G.D. et al.* (6 authors) 2005, ApJ 630, L173. (2aco, 5b) Discovery of possible WD-Brown Dwarf binary.
SDSS J124058.03−015919.2	*Roelofs, G.H.A. et al.* (6 authors) 2005, MNRAS 361, 487. (2bcio, 5abeghi) A new AM CVn star.
RE J1255+266	*Patterson, J., Thorstensen, J.R., Kemp, J.* 2005, PASP 117, 427. (1ao, 2a, 4a, 5dgi)
PSR B1259−63	*Johnston, S. et al.* (4 authors) 2005, MNRAS 358, 1069. (1r, 5cg, 8ab) Radio observations through the 2004 periastron passage.
4U 1323−62 (XB 1323−619)	*Boirin, L. et al.* (5 authors) 2005, A&A 436, 195. (2cx) Explanation of dipping phenomenon.
	Church, M.J. et al. (5 authors) 2005, MNRAS 359, 1336. (1ax, 5ghi) Absorption features and x-ray bursts.
2QZ J142701.6−012310	2005, IAU Circ. 8531 (1a, 2c) Helium transferring CVn binary.
PKS 1510−089	*Wu, J. et al.* (6 authors) 2005, MNRAS 361, 155. (1ao, 5bcg) A binary black hole system?
4U 1543−47	*Kalemci, E. et al.* (8 authors) 2005, ApJ 622, 508. (2ciorx) Synchrotron emission for optical, IR, X-ray above power law continuation.
XTE J1550−564	*Sturner, S.J., Shrader, C.R.* 2005, ApJ 625, 923. (1x, 2x, 5i) Observations of a failed outburst.
4U 1624−29	*Lommen, D. et al.* (4 authors) 2005, A&A 435, 1005. (1x) LMXB
4U 1630−47	*Abe, Y. et al.* (5 authors) 2005, PASJ 57, 629. (2x) Three spectral states from long-term x-ray monitoring.
4U 1636−53	*Barret, D., Olive, J-F., Miller, M.C.* 2005, MNRAS 361, 855. (1bx*, 5bgi) A study of the lower kHz QPOs.
	Jonker, P.G., Méndez, M., van der Klis, M. 2005, MNRAS 360, 921. (1bx, 5bgi) Sidebands to the lower kHz QPOs.

	Shih, I.C. et al. (5 authors) 2005, MNRAS 361, 602. (1bx, 5bgi) Periodic variability during the x-ray decline.
XTE J1650−500	*Rossi, S. et al.* (4 authors) 2005, MNRAS 360, 763. (1abx, 5ei, 8a) Iron-line and continuum flux variations in the *RXTE* spectra.
GRO J1655−40	*Willems, B. et al.* (8 authors) 2005, ApJ 625, 324. (4a*, 8c) New natal kick theory applied to this system.
4U 1700−37	(see V884 Sco)
4U 1705−44	*Di Salvo, T. et al.* (8 authors) 2005, ApJ 623, L121. (2bcu, 4a) Broad iron line emission.
1RXS J170854.4−321857	*in't Zand, J.J.M., Cornelisse, R., Méndez, M.* 2005, A&A 440, 287. (1x)
PSR B1718−19	*Janssen, T., van Kerkwijk, M.H.* 2005, A&A 439, 433. (1aio, 6c) Properties of pulsar companion.
1RXS J171824.2−402934	*in't Zand, J.J.M., Cornelisse, R., Méndez, M.* 2005, A&A 440, 287. (1x)
GRO J1719−24	*Ling, J.C., Wheaton, WM.A.* 2005, ApJ 622, 492. (2cg*) Observed during several spectral state transitions.
4U 1728−34	*Titarchuk, L., Shaposhnikov, N.* 2005, ApJ 626, 298. (2x*) Spectral index and QPO frequency correlation as way to distinguish between NS and BH.
SLX 1735−269	*Molkov, S. et al.* 2005, A&A 434, 1069. (1x) LMXB
H1743−322	*Homan, J. et al.* (7 authors) 2005, ApJ 623, 383. (1ax) QPO's discussed in terms of recently proposed models.
GCRT J1745−3009	*Turolla, R., Possenti, A., Treves, A.* 2005, ApJ 628, L49. (8a) Is this a NS + NS binary?
IGR J17464−3213	*Capitanio, F. et al.* (15 authors) 2005, ApJ 622, 503. (2cg) Spectral states and variability.
XTE J1751−305	*Gierliński, M., Poutanen, J.* 2005, MNRAS 359, 1261. (1abx, 5cgi, 8ab) Physics of accretion.
IGR J18027−2016	*Hill, A.B. et al.* (12 authors) 2005, A&A 439, 255. (1x, 5be) Spectral and timing analysis.
XTE J1807−294	*Falanga, M. et al.* (9 authors) 2005, A&A 436, 647. (2x*, 5b, 5j)
XTE J1814−338	*Kraus, M.I. et al.* (10 authors) 2005, ApJ 627, 910. (1ai, 2x) Optical counterpart found.
XTE J1819−254	(see V4641 Sgr)
4U 1820−30	*Dib, R. et al.* (5 authors) 2005, ApJ 626, 333. (1x*) Search for coherent X-ray pulsations.
2A 1822−371	(see V691 CrA)
RX J1826.2−1450 (LS 5039)	*Aharonian, F. et al.* (103 authors) 2005, Science 309, 746. Discovery of very high energy γ-rays associated with HMXB. *Bosch-Ramon, V. et al.* (6 authors) 2005, ApJ 628, 388. (1x, 2x)
4U 1850−087	*Juett, A.M., Chakrabarty, D.* 2005, ApJ 627, 926. (2x) Ultracompact X-ray binary candidate.
4U 1907+09	*Cox, N.L.J. et al.* (4 authors) 2005, A&A 438, 187. (2ao) Study of interstellar bands. *Cox, N.L.J., Kaper, L., Mokiem, M.R.* 2005, A&A 436, 661. (2bco) Study of pulsar companion.
IGR J19140+0951	*Rodriguez, J. et al.* (6 authors) 2005, A&A 432, 235. (2bx, 5i) HMXB.
GRS 1915+105	(see V1487 Aql)

4U 1915−05	(see V1405 Aql)
CV1 1940−3058	*Kaluzny, J. et al.* (7 authors) 2005, MNRAS 359, 677. (1ao, 5g, 6bc) Detection of a dwarf nova in the globular cluster M55.
GRO J2058+42	*Wilson, C.A. et al.* (7 authors) 2005, ApJ 622, 1024. (2bco) Identified as a Be/X-ray binary (CXOU J205847.5+414637.
SAX J2103.5+4545	*Falanga, M. et al.* (9 authors) 2005, A&A 436, 313. (5i, 8b) Interpretation of pulse profile.

Galactic objects with other designations

(5905) JOHNSON	2005, IAU Circ. 8511 (1c, 5bc, 6b) A photometric binary.
AS 325	2005, IAU Circ. 8567 (1a, 2c) Eclipse of long period binary.
G173.58+2.45	(see IRAS 05361+3539)
GJ802b	*Pravda, S.H., Shaklan, S.B., Lloyd, J.* 2005, ApJ 630, 528. (2i, 4a, 5e, 6b) Disovery of M5-brown dwarf binary.
GRB 050509b	*Lee, W.H., Ramirez-Ruiz, E., Granot, J.* 2005, ApJ 630, L165. (8) Black hole - NS disruption model.
GSC 4232-2830	*Goranskij, V.P. et al.* (4 authors) 2005, IBVS 5618. (1a, 5a, 6b) EB with elliptical orbit.
GX 1+4	*Paul, B. et al.* (5 authors) 2005, ApJ 627, 915. (1x, 2x) Accreting X-ray binary.
GX 301-2	(see BP Cru)
GX 339-4	(see V821 Ara)
GX 9+1	*Iaria, R. et al.* (7 authors) 2005, A&A 439, 575. (2ax) Distance indication.
Hen 3-1341	*Munari, U., Siviero, A., Henden, A.* 2005, MNRAS 360, 1257. (1aboi, 2bcd, 5cdg) Bipolar jet growth and decline.
HIP 7666	(see HDE 232486)
KH 15D	*Herbst, W., and Moran, E.C.* 2005, ApJ 630, 400. (2x) X-ray emission from T Tauri binary.
	Johnson, J.A. et al. (9 authors) 2005, AJ 129, 1978. (1co, 5i) UB-VRI photometry supports hypothesis of eclipse by inclined, precessing, circumbinary ring.
LS 5039	(see RX J1826.2−1450)
NGC 2808	*Dieball, A. et al.* (5 authors) 2005, ApJ 625, 156. (1bu*, 6b) Discovery of approximately 60 CV's in the cluster.
Nova in Pyx	2005, IAU Circ. 8495 (1c, 4a, 6b) Possible new nova.
	2005, IAU Circ. 8496 (2c) Dwarf nova in outburst.
	2005, IAU Circ. 8498 (1d, 10b)
SS 433	(see V1343 Aql)
Var star near M27	2005, IAU Circ. 8591 (1c, 6b) New CV?
WR 20a	*Rauw, G. et al.* (9 authors) 2005, A&A 432, 985. (2ac, 5dej) Very massive binary system (WN6ha + WN6ha).
WR 146	*O'Connor, E. et al.* (4 authors) 2005, JRASC 99, 142. (1r, 5ij, 10a)

Extragalactic close binaries

LMC X-1	*Yao, Y., Wang, Q.D., Zhang, S.N.* 2005, MNRAS 362, 229. (1bx, 5ceg) Observations confront spectral models.
LMC X-3	*Yao, Y., Wang, Q.D., Zhang, S.N.* 2005, MNRAS 362, 229. (1bx, 5ceg) Observations confront spectral models.
LMC Br 22	*Boisvert, P. et al.* (4 authors) 2005, JRASC 99, 133. (2cdu, 5j, 10a)
LMC Br 32	*Boisvert, P. et al.* (4 authors) 2005, JRASC 99, 133. (2cdu, 5j, 10a)
SMC X-1	*Vrtilek, S.D. et al.* (4 authors) 2005, ApJ 626, 307. (2bx, 5i) Photoionized lines in both high and X-ray low states.
RX J00549−7245 (SXP504)	*Edge, W.R.T. et al.* (10 authors) 2005, MNRAS 361, 743. (1abox, 5abg, 6c) The binary period and outburst behaviour.
RX J0103.6−7201	*Haberl, F., Pietsch, W.* 2005, A&A 438, 211. (1x*, 6c) Pulsations in SMC HMXRB.
RX J0209.6−7427	*Kahabka, P., Hilker, M.* 2005, A&A 435, 9. (6b, 1x) XB in outer SMC wing.
Nova in SMC	2005, IAU Circ. 8582 (1c, 2c, 4a, 6b) New nova in outburst. 2005, IAU Circ. 8593 (1a, 4a, 6b) Independent discovery. 2005, IAU Circ. 8594 (10b)
Sanduleak 1 (in SMC)	*St-Louis, N. et al.* 2005, ApJ 628, 953. (1u, 2ur) FUSE observations of Wolf-Rayet binary: colliding winds.
SXP504	(see RX J00549−7245)
Nova in M31	*Williams, B.F. et al.* (6 authors) 2005, ApJ 628, 382. (1ox, 6bc) Discovery of an X-ray transient and its optical counterpart in M31.

General

Abt, H.A. 2005, ApJ 629, 507. Period vs. orbital eccentricity. (9*)

Agol, E. et al. (4 authors) 2005, MNRAS 359, 567. On detecting terrestrial planets with timing of giant planet transit.

Andersson, N. et al. (4 authors) 2005, MNRAS 361, 1153. Modelling the spin equilibrium of neutron stars in LMXBs without gravitational radiation.

Bacher, A., Kimeswenger, S., Teutsch, P. 2005, MNRAS 362, 542. Photometry from online Digitized Sky Survey plates.

Beckwith, K., Done, C. 2005, MNRAS 359, 1217. Extreme gravitational lensing near rotating black holes.

Belloni, T., Méndez, M., Homan, J. 2005, A&A 437, 209. The distribution of kHz QPO frequencies in bright low mass x-ray binaries.

Berczik, P., Merritt, D., Spurzem, R. 2005, Astron. Nachr. 326, 589. Long-term evolution of massive BH binaries.

Bisikalo, D.V. et al. (4 authors) 2005, AZh 82, 788. (8b) The possible nature of dips in the light curves of semi-detached binaries with stationary disks.

Bogomazov, A.I. et al. (4 authors) 2005, AZh 82, 331. (8c) Evolution of the masses of neutron stars in binary systems.

Broderick, A.E. 2005, MNRAS 361, 955. Supernovae in helium star-compact object binaries: a possible γ-ray burst mechanism.

Brun, A.S., Browning, M.K., Toomre, J. 2005, ApJ 629, 461. Core convection and resulting magnetic fields in rotating A-type stars. (8)

Campbell, C.G. 2005, MNRAS 359, 835. The effect of a magnetosphere on asynchronous magnetic torques in AM Herculis binaries.

Canalle, J.B.G. et al. (5 authors) 2005, A&A 440, 185. Accretion in dipole magnetic fields: flow structure and x-ray emission of accreting white dwarfs.

Carney, B.W. et al. (4 authors) 2005, Aj 129, 1886. Deficiency of binaries in retrograde galactic orbits, possibly connected to ω Cen.

Cassatella, A., Altamore, A., González-Riestra, R. 2005, A&A 439, 205. Classical novae in outburst: evolution of the ultraviolet emission lines in CO novae.

Ciardullo, R. et al. (4 authors) 2005, ApJ 629, 499. Close Binaries as progenitors of brightest PN. (8, 9)

Cooper, R.L., Narayan, R. 2005, ApJ 629, 422. Superbursts and accreting neutron stars. (8)

Cumming, A. 2005, ApJ 630, 441. Latitudinal shear instabilities during type 1 X-ray bursts. (8a)

Deloye, C.J., Bildsten, L., Nelemans, G. 2005, ApJ 624, 934. Isentropic model applied to mass exchange in AM CVn systems with WD as donor (see also Collections of Data).

Deupree, R., Karakas, A. 2005, JRASC 99, 128. Nonspherical effects in evolution of CBs. (10a)

Dryomova, G., Perevozkina, E., Svechnikov, M. 2005, A&A 437, 375. Catalogue of the orbital elements, masses, and luminosities for short-periodic RS CVn-type eclipsing systems.

Dryomova, G.N., Svechnikov, M.A., Tutukov, A.V. 2004, Odessa Astron. Publ. 17, 25. (8b) Blue stragglers as a merging product of low-mass main sequence binaries with detached components.

Farrell, S.A., O'Neill, P.M., Sood, R.K. 2005, Publ. Astron. Soc. Australia 22, 267. Recurrent $\sim$ 24 h periods in RXTE ASM data.

Feeney, S.M. et al. (12 authors) 2005, AJ 130, 84. Automatic detection of classical novae with neural networks.

Fender,R.P., Maccarone, T.J., van Kesteren, Z. 2005, MNRAS 360, 1085. Energization of interstellar media and cosmic ray production by jets from x-ray binaries.

Ferreira, J.M., Mendoza-Briceño, C.A. 2005, A&A 433, 1055. Coronal mass transfer in interbinary loops.

Fisher, J., Schröder, K.-P., Smith, R.C. 2005, MNRAS 361, 495. What a local sample of spectroscopic binaries can tell us about the field binary population.

Fukue, J. 2005, PASJ 57, 691. Terminal speed of on-axis jets from a supercritical accretion disk.

Fukue, J. 2005, PASJ 57, 841. Radiative flow in a luminous disk.

Giannios, D. 2005, A&A 437, 1007. Spectra of black-hole binaries in the low/hard state: From radio to X-rays.

Gondoin, P. 2005, A&A 438, 291. X-ray observations of the old open stellar cluster NGC 188.

Goodwin, S.P., Kroupa, P. 2005, A&A 439, 565. Limits on the primordial stellar multiplicity.

Groenewegen, M.A.T. 2005, A&A 439, 559. Eclipsing binaries in the Galactic bulge: candidates for distance estimates.

Harrison, T.E., Osborne, H.L., Howell, S.B. 2005, AJ 120, 2400. Abundance anomalies in short-period CVs from infrared spectra (see also Collections of Data).

Hubber, D.A., Whitworth, A.P. 2005, A&A 437, 113. Binary star formation from ring fragmentation.

Hynes, R.I. 2005, ApJ 623, 1026. Spectral energy distributions of short-period black-hole x-ray transients exhibit a quasi-power law (see also Collections of Data).

Istomin, Ya.N. 2005, AZh 82, 500. (8ab) γ-ray bursts from a close pulsar binary system?

Ivanov, P.B., Polnarev, A.G., Saha, P. 2005, MNRAS 358, 1361. The tidal distribution rate in dense galactic cusps containing a supermassive binary black hole.

Ivanova, N. et al. (4 authors) 2005, MNRAS 358, 572. The evolution of binary fractions in globular clusters.

Jeffer, S.V. 2005, MNRAS 359, 729. Spurious 'active longitudes' in parametric models of heavily spotted eclipsing binaries.

Joergens, V. 2005, Rev. Mod. Astron. 18, 216. Origins of brown dwarfs.

Kafka, S., Honeycutt, R.K. 2005, AJ 130, 742. High-low state transitions in magnetic CVs (see also Collections of Data).

Kato, S. 2005, PASJ 57, L17. A resonance model of quasi-periodic oscillations of LMXBs.

Kato, S. 2005, PASJ 57, 679. Quasi-periodic oscillations resonantly induced on spin-induced deformed-disks of neutron stars.

Kato, S. 2005, PASJ 57, 699. A vertical resonance of g-mode oscillations in warped disks and QPOs in LMXBs.

Kiss, L.L., Bedding, T.R. 2005, MNRAS 358, 883. Photometric biases as a result of stellar blending: implications for measuring distances, constraining binarity and detecting exoplanetary transits.

Koen, C. 2005, MNRAS 361, 887. The analysis of irregularly observed stochastic astronomical time-series - I. Basics of linear stochastic differential equations.

Komissarov, S.S. 2005, MNRAS 359, 801. Observations of the Blandford-Znajek process and and the magnetohydrodynamic Penrose process in computer simulations of black hole magnetospheres.

Kuncic, Z. 2005, Publ. Astron. Soc. Australia, 22, 195. Black holes in galactic nuclei, x-ray binaries and ultraluminous x-ray sources.

Lavagetto, G. et al. (6 authors) 2005, MNRAS 359, 734. The role of general relativity in the evolution of LMXBs.

Li, L., Han, Z., Zhang, F. 2005, MNRAS 360, 272. Structure and evolution of low-mass W UMa type systems-III. The effects of the spins of the stars.

Li, L.-S. 2004, J. Ap. Astron. 25, 203. An apparent descriptive method for judging the synchronization of rotation of binary stars.

Liebert, J. et al. (11 authors) 2005, AJ 129, 2376. Absence of magnetic WDs with detached non-degenerate companions from SDSS.

Lin, Y.-Q., Lu, J.-F., G.U., W.-M. 2005, Chinese Astron. Ap. 29, 113. The connection of standard thin disk with advection-dominated accretion flow.

Lipunov, V.M., Bogomazov, A.I., Abubekerov, M.K. 2005, MNRAS 359, 1517. How abundant is the population of binary radio pulsars with black holes?

Lucy, L.B. 2005, A&A 439, 663. Spectroscopic binaries with elliptical orbits.

Maccarone, T.J., Jonker, P.G., Sills, A.I. 2005, A&A 436, 671. Lithium enhancement in x-ray binaries due to stellar rotation.

Machida, M.N. et al. (4 authors) 2005, MNRAS 362, 382. Collapse and fragmentation of rotating magnetized clouds - II. Binary formation and fragmentation of first cores.

Martin, R.G., Tout, C.A. 2005, MNRAS 358, 1036. Hibernation revived by weak magnetic braking.

Massarotti, A. et al. (5 authors) 2005, AJ 129, 2294. New SBs found in search for substellar companions to T Tau stars (see also Collections of Data).

Mighell, K.J. 2005, MNRAS 361, 861. Stellar photometry and astrometry with discrete point spread functions.

Mignone, A. 2005, ApJ 626, 373. Dynamics of radiative shock waves: linear and nonlinear evolution.

Miller, M.C. 2005, ApJ 626, L41. Prompt mergers of neutron stars with black holes.

Moffat, A. et al. (4 authors) 2005, JRASC 99, 141. Weighing the most massive stars. (10a)

Moreno, E., Koenigsberger, G., Toledano, O. 2005, A&A 437, 641. Line profile variability from tidal interactions in binary systems.

Narayan, R., McClintock, J.E. 2005, ApJ 623, 1017. Inclination effects and beaming in BH XB's.

Nazarenko, V.V., Glazunova, L.V., Shakun, L.S. 2005, AZh 82, 319. (8bd) Two- and three-dimensional hydrodynamical simulations of mass transfer in semi-detached binaries, including explicit radiative cooling and self-absorption in the gaseous envelopes.

Pandel, D. et al. (4 authors) 2005, ApJ 626, 396. X-ray emission from cooling plasma in boundary layer in dwarf novae (see also Collections of Data).

Pariev, V.I., Blackman, E.G. 2005, Baltic Astron. 14, 265. Limitations of the Hamiltonian treatment for collisionless astrophysical accretion flows.

Parker, T.L., Norton, A.J., Mukai, K. 2005, A&A 439, 213. X-ray orbital modulations in intermediate polars.

Petrovic, J., Langer, N., van der Hucht, K.A. 2005, A&A 435, 1013. Constraining the mass transfer in massive binaries through progenitor evolution models of Wolf-Rayet+O binaries.

Pfahl, E. 2005, ApJ 626, 849. Binary disruption by massive black holes in globular clusters. (8)

Pfahl, E., Podsiadlowski, P., Rappaport, S. 2005, ApJ 628, 343. On the rarity of BH + NS binaries. (9*)

Pichardo, B., Sparke, L.S., Aguilar, L.A. 2005, MNRAS 359, 521. Circumstellar and circumbinary discs in eccentric stellar binaries.

Piro, A.L., Arras, P., Bildsten, L. 2005, ApJ 628, 401. WD heating and cooling in dwarf nova outbursts. (8)

Piro, A.L., Bildsten, L. 2005, ApJ 629, 429. Nonradial modes cause of burst modulations in accreting neutron stars. (8)

Pont, F. et al. (7 authors) 2005, A&A 438, 1123. Doppler follow-up of OGLE planetary transit candidates in Carina.

Popov, S.B., Prokhorov, M.E. 2005, A&A 434, 649. Formation of massive skyrmion stars.

Protopapas, P., Jimenez, R., Alcock,C. 2005, MNRAS 362, 460. Fast identification of transits from light curves.

Prsa, A., Zwitter, T. 2005, ApJ 628, 426. Development of graphical interfaced modeling package using W-D code, Paper I. (8a)

Regős, E., Bailey, V.C., Mardling, R. 2005, MNRAS 358, 544. Mass transfer in eccentric binary stars.

Sala, G., Hernanz, M. 2005, A&A 439, 1061. Models for the soft x-ray emission of post-outburst classical novae.

Saxton, C.J. et al. (4 authors) 2005, MNRAS 360, 1091. Two-temperature accretion flows in magnetic cataclysmic variables: structures of post-shock emission regions and x-ray spectroscopy.

Shafter, A.W., Cannizzo, J.K., Waagen, E.O. 2005, PASP 117, 931. Relationship between recurrence time and orbital period for Z Cam stars.

Sirotkin, F.V. 2004, Odessa Astron. Publ. 17, 84. (8bc) Two scenarios of mass exchange in close binary systems consisting of the low mass pre-main-sequence stars.

Stancliffe, R.J. et al. (6 authors) 2005, MNRAS 360, 375. The effect of the $^{19}F(\alpha, p)^{22}Ne$ reaction rate uncertainty on the yield of fluorine from Wolf-Rayet stars.

Stute, M., Camenzind, M. 2005, A&A 432, L17. Are jets in symbiotic stars driven by magnetic fields?

Szkody, P. et al. (13 authors) 2005, AJ 129, 2386. Fourth list of CVs from SDSS - 32 new ones.

Townsley, D.M., Bildsten, L. 2005, ApJ 628, 395. Classical novae as a probe of CV population. (9*)

Umurhan, O.M., Shaviv, G. 2005, A&A 432, L31. On the nature of the hydrodynamic stability of accretion disks.

Uttley, P., McHardy, I.M., Vaughan, S. 2005, MNRAS 359, 345. Non-linear x-ray variability in x-ray binaries and active galaxies.

Valeni, J.A., Fischer, D.A. 2005, ApJSS 159, 141. Spectroscopic properties of cool stars. (2abc)

Volonteri, M., Perna, R. 2005, MNRAS 358, 913. Dynamical evolution of intermediate-mass black holes and their observable signatures in the nearby Universe.

Wang, D-X. et al. (4 authors) 2005, MNRAS 359, 36. A model of rotating hotspots for the 3:2 frequency ratio of high-frequency quasi-periodic oscillations in black hole x-ray binaries.

Watarai, K., Takahashi, R., Fukue, J. 2005, PASJ 57, 827. Eclipsing light-curve asymmetry for black-hole accretion flows.

Wilkinson, M.I. et al. (41 authors) 2005, MNRAS 359, 1306. Spectroscopic survey of the Galaxy with *GAIA*-II. The expected science yield from the RV Spectrometer.

Yaron, O. et al. (4 authors) 2005, ApJ 623, 398. Extended grid of nova models.

Zhao, B., Bailyn, C.D. 2005, AJ 129, 1934. Binary populations of M3 and M13.

Zhuchkov, R.Ya., Orlov, V.V. 2005, AZh 82, 308. (8a) Analysis of the dynamical instability of some multiple stars with weak hierarchy.

Życki, P.T., Niedźwiecki, A. 2005, MNRAS 359, 308. On the influence of relativistic effects on x-ray variability of accreting black holes.

Collections of data

Albayrak, B. et al. (11 authors) 2005, IBVS 5649. (5a) 70 photoelectric minima of 35 EBs: BX And, V376 And, AH Aur, AP Aur, AR Aur, V410 Aur, CK Boo, TY Boo, TZ Boo, DK Cyg, GO Cyg, V477 Cyg, V836 Cyg, V2150 Cyg, BI CVn, BO CVn, LS Del, YY Eri, AK Her, HS Her, SW Lac, AM Leo, AP Leo, UV Leo, XZ Leo, SW Lyn, V502 Oph, V839 Oph, DI Peg, V357 Peg, CF Tau, V781 Tau, AH Vir, ER Vul, Z Vul.

Araujo-Betancor, S. et al. (7 authors) 2005, ApJ 622, 589. (2cu) HST far-UVspectra. V834 Cen, V895 Cen, BL Hyi, ST LMi, V347 Pav, VV Pup, MR Ser, RXJ 1554.2+2721 observed in low accretion activity, spectra fitted to pure H WD model. CD Ind, UW Pic, AN UMa observed during high accretion activity.

Bakis, V. et al. (7 authors) 2005, IBVS 5616. (5a) Times of minima of EBs: AP Aur, TT Aur, AR Boo, UW Boo, SV Cam, TV Cas, EM Cep, GSC 4288-0186, UW Cyg, ZZ Cyg, Y Leo, UU Leo, UX Leo, EW Lyr, V502 Oph, FZ Ori, IU Per, RZ Tau.

Carquillat, J.-M., Prieur, J.-L., Ginestet, N. 2005, MNRAS 360, 718. (2abd, 5bde) RVs and spectroscopic orbits of composite spectrum systems: HD 3210/1, HD 27395, HD 39847, HD 70826, HD 218257/8.

Coe, M.J. 2005, MNRAS 358, 1379.(1ao*, 5cg) An estimate of the supernova kick velocities for 17 HMXBs in SMC: SXP0.92, SXP3.34, SXP8.02, SXP8.80, SXP9.13, SXP15.3, SXP59.0, SXP74.7, SXP82.4, SXP172, SXP304, SXP323, SXP348, SXP452, SXP504, SXP565, SXP756.

Cook, J.M. et al. (5 authors) 2005, IBVS 5636. (5a) 120 times of CCD minima for 39 EBs observed from 2002 to 2005: AB And, RT And, WZ And, XZ And, V0343 Aql, V0346 Aql, AL Cam, IR Cas, IV Cas, EG Cep, ZZ Cep, RW Com, W Crv, BR Cyg, CG Cyg, V0346 Cyg, V0387 Cyg, WW Cyg, ZZ Cyg, TY Del, W Del, YY Del, RZ Dra, UZ Dra, YY Eri, CT Her, SZ Her, TU Her, SW Lac, FL Lyr, SX Oph, U Peg, V0505 Sgr, EQ Tau, RV Tri, X Tri, W UMa, RU UMi, BU Vul.

Deloye, C.J., Bildsten, L., Nelemans, G. 2005, ApJ 624, 934. (8d) Isentropic model applied to mass exchange: CR Boo, AM CVn, V803 Cen, GP Com, KL Dra, CP Eri, HP Lib, CE 315 (see also General).

Devor, J. 2005, ApJ 628, 411. (1o, 5c) Fits for 10,862 eclipsing binary light curves from bulge fields of OGLE II.

Drozd, M., Ogloza, W. 2005, IBVS 5623. (5a) Photoelectric minima of EBs: AB And, BX And, CN And, GZ And, V376 And, XY Boo, EF Boo, ET Boo, AO Cam, DN Cam, FN Cam, BH CMi, YY Cnc, DK Cyg, V2150 Cyg, LS Del, EF Dra, FU Dra, GM Dra, QW Gem, UX Her, V857 Her, V899 Her, FG Hya, SW Lac, XY Leo, AP Leo, EX Leo, RT LMi, UV Lyn, V753 Mon, BB Peg, KS Peg, V357 Peg, V592 Per, OU Ser, V1130 Tau, W UMa, HN UMa, HX UMa, II UMa, HT Vir, ER Vul.

Eyer, L., Blake, C. 2005, MNRAS 358, 30.(1aio, 5bc, 6a, 7c) EBs from automated classification of variable stars for All-Sky Automated Survey 1-2 data.

Fabrycky, D. 2005, MNRAS 359, 117.(1ai*o*, 5bcg) Rapid multiperiodic variability in 6 SMC XBs from MACHO and OGLE projects.

Gänsicke, B.T. et al. (11 authors) 2005, MNRAS 361, 141. (1aio, 2abc, 5cde) New IPs: 1RXS J063631.9+353537, 1RXS J070407.9+262501, 1RXS J173021.5−055933, 1RXS J180340.0+401214.

Gänsicke, B.T. et al. (4 authors) 2005, ApJ 629, 451. (1*, 2c) Observations of accreting WD's:BC UMa and SW UMa.

Griffin, R.F. 2005, Observatory 125, 81. (2a, 5d) RVs and spectroscopic orbits: HD 49635/6, HD 50730/1, HD 201563, HD 203340.

Griffin, R.F. 2005, Observatory 125, 134. (2a, 5d) RVs and spectroscopic orbits: 22 Cam, HD 156051, HR 6890, HD 221757.

Griffin, R.F. 2005, Observatory 125, 253. (2a, 5d) RVs and spectroscopic orbits: HD 98031, HD 112573, HD 197913.

Harrison, T.E., Osborne, H.L., Howell, S.B. 2005, AJ 120, 2400. (2bi, 5h) Severe C-deficiency in U Gem, UU Aql, TW Vir (see also General).

Heinke, C.O., Grindlay, J.E., Edmonds, P.D. 2005, ApJ 622, 556. (2cx) Identifications of objects in 47 Tuc as quiescent LMXBs: W37 (definite); W17, X4 probable. //
Hintz, E.G., Rose, M.B. 2005, PASP 117, 955. (1a, 2c, 6b) New binaries found in field of NGC 6882/6885.

Hussler, K., Berthold, T., Kroll, P. 2005, IBVS 5637. (5b) Elements for 7 EBs in Oph: V987 Oph, V1080 Oph, V2037 Oph, V2056 Oph, NSV 9905, NSV 9995, NSV 10072.

Hynes, R.I. 2005, ApJ 623, 1026. (2d) Spectral energy distributions: V616 Mon (A0620−00), GU Mus (GS 1124−684), V2293 Oph, V518 Per (GRO J0422+32), MM Vel, V406 Vul (XTE J1859+226) (see also General).

Kafka, S., Honeycutt, R.K. 2005, AJ 130, 742. (1a) Long term photometry of magnetic CVs: AM Her, MR Ser, ST LMi, AN UMa, AR UMa (see also General).

Levesque, E.M. et al. (7 authors) 2005, ApJ 628, 973. (2b, 8c) Red supergiants 400 K warmer than previously thought.

Long, K.S. et al. (6 authors) 2005, ApJ 630, 511. (2u) Far UV study of two dwarf novae: SS Cyg and WX Hydri in quiescence.

Massarotti, A. et al. (5 authors) 2005, AJ 129, 2294. (1aoi, 2ao, 5d, 6b) New SBs: HBC 400ab, 427, 630, 633 (see also General).

Michalska, G., Pigulski, A. 2005, A&A 434, 89. (5c) LMC detached binaries.

Morales-Rueda, L. et al. (7 authors) 2005, MNRAS 359, 648. (2abiou, 5abde) Determination of orbital parameters and masses: WD1022+050, WD1428+373, WD1824+040, WD2032+188.

Otero, S.A., Wils, P. 2005, IBVS 5630. (5b) New elements for 80 EBs VI.: NSV 00043, NSV 00856, NSV 00901, NSV 01217, NSV 01697, NSV 01978, NSV 01986, NSV 02403, NSV 02503, NSV 02652, NSV 02895, NSV 02940, NSV 03014, NSV 03210, NSV 03251, NSV 03300, NSV 03346, NSV 03450, NSV 03521, NSV 03637, NSV 03654, NSV 03822, NSV 03849, NSV 03878, NSV 03951, NSV 03975, NSV 04095, NSV 04205, NSV 04347, NSV 04408, NSV 04476, NSV 05056, NSV 05584, NSV 05891, NSV 05987, NSV 06047, NSV 06078, NSV 06226, NSV 06518, NSV 06584, NSV 06595, NSV 06624, NSV 06925, NSV 07222, NSV 07274, NSV 07283, NSV 07991, NSV 08020, NSV 08780, NSV 09018,

NSV 09234, NSV 09677, NSV 09708, NSV 09853, NSV 09919, NSV 10624, NSV 10845, NSV 10870, NSV 11391, NSV 12107, NSV 12514, NSV 13016, NSV 13663, NSV 13853, NSV 14193, NSV 14280, NSV 14315, NSV 15483, NSV 16154, NSV 17426, NSV 18655, NSV 19280, NSV 19643, NSV 19913, NSV 20106, NSV 20235, NSV 26081, OZ Aps, V1373 Ori, WZ Vol.

Otero, S.A. 2005, IBVS 5631. (5abf) 10 eccentric EBs showing apsidal motion II.: KL CMa, LT CMa, MN TrA, HD 171491, V397 Pup, V399 Pup, V493 Car, V529 Car, V821 Cas, V1081 Sco.

Otero, S.A., Wils, P. 2005, IBVS 5644. (5b) New elements for 80 EBs found in ASAS-3, Hipparcos and NSVS databases VII.: AL Dor, FV Vel, NSV 00353, NSV 00651, NSV 00733, NSV 01114, NSV 01652, NSV 01668, NSV 01677, NSV 01687, NSV 02826, NSV 02850, NSV 02889, NSV 02962, NSV 03371, NSV 03710, NSV 03754, NSV 04067, NSV 04322, NSV 04537, NSV 04629, NSV 04881, NSV 04996, NSV 05154, NSV 05435, NSV 05488, NSV 05504, NSV 05648, NSV 05849, NSV 06303, NSV 06956, NSV 06989, NSV 07164, NSV 07445, NSV 07638, NSV 07730, NSV 07855, NSV 07907, NSV 07931, NSV 08010, NSV 08017, NSV 08125, NSV 08194, NSV 08441, NSV 08472, NSV 08486, NSV 08629, NSV 08766, NSV 09542, NSV 09550, NSV 09637, NSV 09816, NSV 10161, NSV 10993, NSV 11107, NSV 11441, NSV 12008, NSV 12699, NSV 13304, NSV 13492, NSV 14149, NSV 14288, NSV 15208, NSV 15394, NSV 16254, NSV 16801, NSV 17520, NSV 19754, NSV 20056, NSV 20247, NSV 20263, NSV 20802, NSV 24327, NSV 24452, NSV 24909, NSV 25338, NSV 25881, NSV 26112, V0392 Vul.

Pandel, D. et al. (4 authors) 2005, ApJ 626, 396. (2bx, 5i) XMM-Newton data: OY Car, WW Cet, AB Dra, U Gem, VW Hyi, WX Hyi, T Leo, TY PsA, SU UMa, EI UMa. EI UMa may be IP not CV (see also General).

Pejcha, O. 2005, IBVS 5645. (5a) 54 times of CCD minima of 28 EBs: BX And, EP And, GSC 2791-02148, GSC 2808-00139, GSC 2791-01524, GSC 5149-02845, GSC2.2 N02013121751, AC Boo, FP Boo, LR Cam, AI Cep, SS Com, V388 Cyg, V442 Cyg, HD 332325, GSC 2685-01453, GSC 4288-00186, GSC 2137-00222, V338 Her, V921 Her, V1005 Her, GSC 3101-00683, EM Lac, GSC2.2 N030320055368, UX Peg, II Per, HW Vir, IM Vul.

Rucinski, S.M. et al. (9 authors) 2005, AJ 130, 767. (1a, 5d) RV and orbits of CBs (tenth paper in series): V395 And, HS Aqr, V449 Aur, FP Boo, SW Lac, KS Peg, IW Per, V592 Per, TU UMi, FO Vir.

Schmidt, G.D. et al. (17 authors) 2005, ApJ 630, 1037. (1ao, 2a, 3b, 5b, 6b) Observations of low accretion rate magnetic WD - M star binaries: SDSS J083751.00+383012.5, SDSS J132411.57+032050.5, SDSS J155331.12+551614.5, SDSS J204827.91+005008.9.

Schmidtobreick, L. et al. (5 authors) 2005, PASP 117, 944. (2b) Classification of CV candidates: CV nature of V88 Cen, FQ Mon, LB 9963 confirmed, but FV Cnc, WY CM V591 Cen and FBS 0204−024 appear not to be CVs.

Street, R.A. et al. (10 authors) 2005, MNRAS 358, 795.(1ao, 5abcg, 6a, 7c) Discovery of 53 eclipsing binaries in the open cluster NGC 6819-II.

Taranova, O.G., Shenavrin, V.I. 2005, LeAZh 31, 669 (1b, 5c). Infrared photometry for five CBs.

van den Besselaar, E.J.M. et al. (5 authors) 2005, A&A 434, L13. (6b) Identification of 13 DB + dM and 2 DC + dM binaries from the Sloan Digital Sky Survey.

Proceedings of Conferences, Symposia, and Monographs

Stellar Astrophysics, A Tribute to Helmut Abt, eds. *K.S. Cheng, K.C. Leung, T.C. Li* 2003, Kluwer Academic Publishers - Astrophys. and Space Sci. Lib. 298.

Tidal Evolution and Oscillations in Binary Stars: Third Granada Workshop on Stellar Structure, eds. *A. Claret, A. Giménez, J.-P. Zahn* 2005, ASP Conf. Ser. 333.

The Light-time Effect in Astrophysics - Causes and Cures of the O−C Diagram, ed. *C. Sterken* 2005, ASP Conf. Ser. 335.

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