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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

Several entries of this issue use the abbreviation:

OAP — Odessa Astronomical Publications (issue of the Odessa Astronomical Observatory of the Odessa State University, Ukraine), Astroprint Publishing Company, Ukraine

Individual Stars

R Aqr	*Gromadzki, M., Mikołajewska, J.* 2009, A&A 495, 931. (2ao*, 5d)
LL Aqr	*İbanoğlu, C. et al.* (12 authors) 2008, MNRAS 390, 958. (1ao, 2ao, 5abcde) Eccentric detached EB.
V1333 Aql (Aql X-1)	*Maitra, D., Bailyn, C.D.* 2008, ApJ 688, 537. (2dio, 4dx) Observed during major outburst.
V1408 Aql (4U 1957+11)	*Nowak, M.A. et al.* (7 authors) 2009, ApJ 699, 1199. (2x) Observations of fastest-rotating BH.
V1487 Aql (GRS 1915+105)	*Pétri, J.* 2008, Ap&SS 318, 181. (5i, 8d) New model of QPOs.
V1721 Aql	2008, IAU Circ. 8989 (1a, 2c, 4a, 6b) Discovery and designation of nova.
FU Ara	*Paschke, A., Acerbi, F., Barani, C.* 2008, ChJAA 8, 707. (1ao, 5abce) A LC analysis.
V801 Ara (4U 1636−536)	*Altamirano, D. et al.* (6 authors) 2008, ApJ 685, 436. (4di) Study of x-ray time variability. *Pandel, D., Kaaret, P., Corbel, S.* 2008, ApJ 688, 1288. (2cdx) Relativistic Fe-line emission from inner AD.
V821 Ara (GX 339-4)	*Caballero, M.D. et al.* (8 authors) 2009, ApJ 692, 1339. (1x, 2x) Observations during 2007 outburst. *Del Santo, M. et al.* (5 authors) 2008, MNRAS 390, 227. (1x, 2dx, 5i) Spectral variability of BH transient source. *Del Santo, M. et al.* (11 authors) 2009, MNRAS 392, 992. (1gx, 5bcgi, 8ac) Broad-band x-ray spectral evolution. *Taam, R.E. et al.* (4 authors) 2008, ApJ 688, 527. (8d) Cool disk model applied.
α Aur	*Branham, R.L.* 2009, RMxAA Ser. de Conf. 35, 89. (2ao*, 4co*, 5de) New three-dimensional orbit.
CV Boo	*Torres, G., Vaz, L.P.R., Lacy, C.H.S.* 2008, AJ 136, 2158. (1ao, 2ao, 5cdeg) Spotted EB.
BQ Cam	*Kiziloglu, U. et al.* (5 authors) 2008, IBVS 5865. (1a, 2d) Long-term optical observations of Be/x-ray binary.
CI Cam	*Filippova, E.V., Revnivtsev, M.G., Lutovinov, A.A.* 2008, LeAZh 34, 883. (8b) Diagnosing the early explosion phase of a classical nova using its x-ray emission: model for 1998 x-ray outburst of CI Cam.
RU Cnc	*Tian, Y.P., Xiang, F.Y., Tao, X.* 2009, Ap&SS 319, 119. (1ab, 5ab) Possible cyclic period variation.
BI CVn	*Qian, S.-B. et al.* (5 authors) 2008, AJ 136, 2493. (1ao, 5abc) W UMa system with third body.
η Car	2009, IAU Circ. 9011 (2ac, 5g) Support for binary period. 2009, IAU Circ. 9012 (1au, 2c, 5g) Spectroscopic features. *Abraham, Z., Falceta-Gonçalves, D.* 2009, RMxAA Ser. de Conf. 35, 46. (8a) X-ray oscillations due to nutation of rotation axis. *Kashi, A., Soker, N.* 2008, MNRAS 390, 1751. (8a) Modelling of the orientation of the highly eccentric (e $\approx$ 0.9) massive binary.
θ Car	*Nazé, Y., Rauw, G.* 2008, A&A 490, 801. (2dx, 5gh) High-resolution x-ray spectroscopy.
V679 Car	2008, IAU Circ. 8999 (1ad, 2c, 4a, 5g, 6b) New "Fe II"-type nova.
B Cas	*Krause, O. et al.* (7 authors) 2008, Nature 456, 617. (2do) Tycho's SN is

(SN 1572)	of standard type Ia as revealed by its light-echo spectrum.
PV Cas	*Claret, A.* 2008, A&A 490, 1103. (5f, 8a) The role of stellar rotation on the system's internal constitution.
V473 Cas	*Zhu, L.Y. et al.* (4 authors) 2009, AJ 137, 3574. (1ao, 5abc) Near-contact binary.
V592 Cas	*Kafka, S. et al.* (4 authors) 2009, AJ 137, 197. (2do, 5ij) Variable wind detected at Hα.
V615 Cas (LS I +61°303)	*Albert, J. et al.* (148 authors) 2009, ApJ 693, 303. (1g, 2g) MAGIC observations of periodic very high-energy γ-ray emission. *Nagae, O. et al.* (6 authors) 2009, AJ 137, 3509. (3bo, 5gi) Little secular variation in polarization. *Sierpowska-Bartosik, A. and Torres, D.F.* 2009, ApJ 693, 1462. (8) Discussion of uncertainties of orbital elements, winds of this periodic γ-ray source.
V709 Cas	*Suleimanov, V. et al.* (4 authors) 2008, A&A 491, 525. (2dx, 5e) Influence of Compton scattering on the broad-band x-ray spectra of the IP.
V799 Cas	*İbanoğlu, C. et al.* (12 authors) 2009, MNRAS 392, 757. (1ao, 2abco, 5abcdeg) Absolute parameters based on photometric and spectroscopic observations.
V831 Cas (RX J0146.9+6121) (LS I +61°235)	*Sarty, G.E. et al.* (13 authors) 2009, MNRAS 392, 1242. (1ao, 2abco, 5bcdegi, 6c, 8a) Periodicities and astrophysical parameters.
δ Cen	*Meilland, A. et al.* (8 authors) 2008, A&A 488, L67. (2di, 4c, 6b) New binary Be star detected by VLTI/AMBER spectro-interferometry.
V779 Cen (Cen X-3)	*Raichur, H., Biswajit, P.* 2008, ApJ 685, 1109. (2dx) QPO observations suggest variations unrelated to disk absorption. *Thompson, T.W., Rothschild, E.* 2009, ApJ 691, 1744. (1x, 2x) X-ray halo.
V841 Cen	*Strassmeier, K.G. et al.* (14 authors) 2008, A&A 490, 287. (1ao, 5c) sIRAIT photometric monitoring of RS CVn binary from Antartica.
U Cep	*Manzoori, D.* 2008, Ap&SS 318, 57. (1ao, 5abc) Period cyclic variation.
VZ Cep	*Torres, G., Lacy, C.H.S.* 2009, AJ 137, 507. (1ao, 2ao, 5bcde) Secondary radius and T_{eff} inconsistent with models.
EE Cep	*Galan, C. et al.* (4 authors) 2008, IBVS 5866. (1a) 2008/2009 eclipse will soon begin.
V731 Cep	*Bakiş, V. et al.* (10 authors) 2008, MNRAS 390, 399. (1ao, 1a*o, 2a, 5abcdef) Detailed analysis of eccentric EB; absolute dimensions and apsidal motion parameters determined.
Z Cha	*Smak, J.* 2009, Acta Astronomica 59, 109. (1a) Superhumps.
BR Cir (Cir X-1)	*Tudose, V. et al.* (5 authors) 2008, MNRAS 390, 447. (1r, 5ij) Long-term (10 yr) radio monitoring of NS binary and relativistic jet source.
BW Cir (GS 1354−64)	*Casares, J. et al.* (11 authors) 2009, ApJSS 181, 238. (1co, 2o, 5bd) Orbital solution to BH transient.
CC Com	*Yang, Y.-G. et al.* (5 authors) 2009, AJ 137, 236. (1ao, 5ab) Secular and cyclic period changes.
σ^2 CrB	*Raghavan, D. et al.* (14 authors) 2009, ApJ 690, 394. (2a, 4c, 5de) Visual orbit derived.
RW CrB	*Ulaş, B. et al.* (4 authors) 2009, Ap&SS 319, 55. (1ao, 5c) No pulsation found.

UW CrB (MS 1603.6+2600)	*Mason, P.A. et al.* (4 authors) 2008, ApJ 685, 428. (1ao) Asymmetrical AD.
9 Cyg	*Balega, Yu.Yu. et al.* (4 authors) 2008, AZh 85, 257. (2c, 4c, 5h) Atmospheric chemical abundances and evolutionary status.
31 Cyg	*Eaton, J.A.* 2008, AJ 136, 1964. (8abd) Chromosphere and wind model. *Griffin, R.F.* 2008, Observatory 128, 362. (2a, 5d) Short-period, low-amplitude, variation detected.
32 Cyg	*Griffin, R.F.* 2008, Observatory 128, 362. (2a, 5d) Short-period, low-amplitude, variation detected.
SS Cyg	*Ishida, M. et al.* (7 authors) 2009, PASJ 61, S77. (1x, 2cdx, 5hi) X-ray observations in quiescence and outburst.
MY Cyg	*Tucker, R.S. et al.* (4 authors) 2009, AJ 137, 2949. (1bo*, 2a*, 5cdeh) Reanalysis of old data.
V404 Cyg	*Corbel, S., Koerding, E., Kaaret, P.* 2008, MNRAS 389, 1697. (1x*, 1r*, 2dx*, 5i) Radio/x-ray correlations of accreting BH.
V729 Cyg	*Linder, N. et al.* (8 authors) 2009, A&A 495, 231. (1ao, 1x, 5cj) Multi-wavelength investigation.
V1251 Cyg	2008, IAU Circ. 8996 (1d) Rare outburst of dwarf nova.
V1341 Cyg (Cyg X-2)	*Schultz, N.S. et al.* (5 authors) 2009, ApJ 692, L80. (1x, 2x) Accretion disk corona observations.
V1357 Cyg (Cyg X-1)	*Axelsson, M. et al.* (4 authors) 2008, A&A 490, 253. (2dx, 5i) Vanishing hardness-flux correlation: signs of the disc moving out. *Bosch-Ramon, V., Khangulyan, D., Aharonian, F.A.* 2008, A&A 489, L21. (2dg) HMXB magnetic field and location of the TeV emitter. *Malzac, J. et al.* (6 authors) 2008, A&A 492, 527. (1x, 2x, 5i) Intense hard x-ray emission state. *Nagae, O. et al.* (6 authors) 2009, AJ 137, 3509. (3bo, 5gi) Little secular variation in polarization. *Poutanen, J., Zdziarski, A., Ibragimov, A.* 2008, MNRAS 389, 1427. (1x*,1r*, 5i) Superorbital variability of x-ray and radio fluxes.
V1521 Cyg (Cyg X-3)	*Hjalmarsdotter, L. et al.* (4 authors) 2009, MNRAS 392, 251. (1x, 5cegi, 8ac) Modelling the broad-band x-ray spectrum.
V2246 Cyg (EXO 2030+375)	*Klochkov, D. et al.* (4 authors) 2008, A&A 491, 833. (2dx) Giant outburst and pulse-phase resolved analysis of INTEGRAL data.
V2362 Cyg (Nova 2006)	*Lynch, D.K. et al.* (32 authors) 2008, AJ 136, 1815. (2doix, 5j) Unusual nova with second maximum in LC.
V2467 Cyg (Nova 2007)	*Poggiani, R.* 2009, Astron. Nachr. 330, 77. (1a*o, 2ado, 5j) Evolution of spectrum and LC of classical nova studied from maximum to transition state.
V2468 Cyg	2008, IAU Circ. 8998 (2ci, 5g) Coronal lines strengthened.
MP Del	*İbanoğlu, C. et al.* (12 authors) 2008, MNRAS 390, 958. (1ao, 2ao, 5abcde) Eccentric detached EB.
AA Dor	*Fleig, J. et al.* (4 authors) 2008, A&A 492, 565. (2x, 2c, 5h)
BB Dor	*Godon, P. et al.* (5 authors) 2008, ApJ 687, 532. (2cdu,5i) Inferred mass accretion rate.
TW Dra	*Zejda, M., Mikulášek, Z., Wolf, M.* 2008, A&A 489, 321. (5abj) Third body in Algol system.

BV Dra	*Yang, Y.-G. et al.* (5 authors) 2009, AJ 137, 236. (1ao, 5ab) Secular and cyclic period changes.
BX Dra	*Kim, D.H. et al.* (6 authors) 2009, IBVS 5872. (1a, 6d) New variable stars in field of BX Dra.
EI Eri	*Washuettl, A. et al.* (5 authors) 2009, Astron. Nachr. 330, 27. (2ao, 5bde) Parameters of chromospherically active binary derived; possible third body detected.
GW Gem	*Lee, J.W. et al.* (7 authors) 2009, PASP 121, 104. (1ao, 5abcg) Spotted near-contact binary.
AM Her	*Kafka, S. et al.* (5 authors) 2008, ApJ 688, 1302. (2bdo) Gas emissions likely from the L4 and L5 positions. *Kalomeni, B., Yakut, K.* 2008, AJ 136, 2367. (1ao, 5ab) Long-term period study.
AW Her	*Tian, Y.P., Xiang, F.Y., Tao, X.* 2009, Ap&SS 319, 119. (1ab, 5ab) Possible cyclic period variation.
HZ Her (Her X-1)	*Staubert, R. et al.* (6 authors) 2009, A&A 494, 1025. (1x) NS free precession.
V777 Her (GD 358)	*González Pérez, J.M., Metcalfe, T.S.* 2009, A&A 493, 1067. (8a) Asteroseismic modelling.
V994 Her	*Lee, C.-U. et al.* (8 authors) 2008, MNRAS 389, 1630. (1ao, 2ao, 5bce) Quadruple system consisting of two detached EB/SB2 systems; accurate masses and radii of all four components derived.
WW Hor	*Imamura, J.M., Bryson, W.C., Steiman-Cameron, T.Y.* 2008, PASP 120, 1171. (8abd) Models of hard x-ray shock spectra for polars predict high mass for WD component.
VW Hya	*Zhang, J., Qian, S.-B., Soonthornthum, B.* 2009, RAA 9, 307. (1o, 4ab) An orbital period investigation.
BL Hyi	*Imamura, J.M., Bryson, W.C., Steiman-Cameron, T.Y.* 2008, PASP 120, 1171. (8abd)
VZ Leo	*Ulaş, B. et al.* (4 authors) 2009, Ap&SS 319, 55. (1ao, 5c) No pulsation found.
ST LMi	*Robertson, J.W. et al.* (5 authors) 2008, AJ 136, 1857. (2ad, 5dij) Circumstellar emission at Hα and He I lines during high state.
VW LMi	*Pribulla, T. et al.* (7 authors) 2008, MNRAS 390, 798. (1ao, 2ao, 5abdef) Quadruple system consisting of a contact EB and a non-eclipsing binary.
GW Lib	*Copperwheat, C.M. et al.* (9 authors) 2009, MNRAS 393, 157. (1ao, 5bcegi, 8a) ULTRACAM observations of the WD pulsator.
NY Lyr	*Qian, S.-B., Liu, L., Zhu, L.-Y.* 2009, PASA 26, 7. (1ao, 5ab) Complex period variations.
V447 Lyr	*Afşar, M., İbanoğlu, C.* 2008, MNRAS 391, 802. (1ao, 2a*, 5abcdeg, 8a) Photometry and modelling.
DD Mon	*Qian, S.-B. et al.* (5 authors) 2009, PASJ 61, 333. (1ao, 5abj) An orbital period change and a mass transfer.
V616 Mon (1A 0620−00)	*Suleimanov, V.F., Lipunova, G.V., Shakura, N.I.* 2008, A&A 491, 267. (5i, 8b) Modelling of non-stationary AD's in LMXB during outburst.
V640 Mon (HD 47129 - Plaskett's star)	*Linder, N. et al.* (6 authors) 2008, A&A 489, 713. (2abo, 5ejk)

θ Mus	*Sugawara, Y., Tsuboi, Y., Maeda, Y.* 2008, A&A 490, 259. (2dx, 5gh) WR binary may be part of a triplet system.
GR Mus (XB 1254−690)	*Díaz Trigo, M. et al.* (6 authors) 2009, A&A 493, 145. (1x, 2x, 5i) Tilted AD.
GU Mus (GRS 1124−68)	*Suleimanov, V.F., Lipunova, G.V., Shakura, N.I.* 2008, A&A 491, 267. (5i, 8b) Modelling of non-stationary AD's in LMXB during outburst.
QY Mus	2008, IAU Circ. 8990 (1acd, 2c, 4a, 6b) Discovery and designation of nova. 2009, IAU Circ. 9012 (1c, 2c, 5g) Typical "Fe II"-type nova.
QX Nor (4U 1608−522)	*Tarana, A., Bazzano, A., Ubertini, P.* 2008, ApJ 688, 1295. (2dx) Study of spectral evolution from quiescence to hard spectral state.
V381 Nor (XTE J1550−564)	*Jin, Y.-K., Zhang, S.-N., Li, T.-P.* 2009, RAA 9, 179. (5ai) An unusual timing and spectral state. *Wang, D-X. et al.* (4 authors) 2008, MNRAS 391, 1332. (5ig, 8a) Association of the 3:2 HFQPO pairs with the broad Fe K line.
U Oph	*Budding, E., İnlek, G., Demircan, O.* 2009, MNRAS 393, 501. (1ao*u*, 2abc, 5abcdegk, 8ac) Absolute parameters.
RS Oph	*Ness, J.-U. et al.* (12 authors) 2009, AJ 137, 3414. (2adx, 5j) Shock x-ray emission during outburst. *Orlando, S., Drake, J.J., Laming, J.M.* 2009, A&A 493, 1049. (1x, 5i) Outburst modelling. *Sokoloski, J.L., Rupen, M.P., Mioduszewski, A.J.* 2008, ApJ 685, L137. (4bcr) Radio images of jets during 2006 eruption.
XX Oph	*Howell, S.B., Johnson, K.J., Adamson, A.J.* 2009, PASP 121, 16. (1o*, 2cdoi) Binary in cavity surrounded by reflective dust.
V2134 Oph (MXB 1659−29)	*Cackett, E.M. et al.* (5 authors) 2008, ApJ 687, L87. (2dx) Study of the cooling of the NS crust during quiescence.
V2216 Oph (GX 9+9)	*Savolainen, P. et al.* (6 authors) 2009, MNRAS 393, 569. (1gx, 5cegij, 8ad) Exploring the spreading layer using RXTE and INTEGRAL.
V2301 Oph	*Imamura, J.M., Bryson, W.C., Steiman-Cameron, T.Y.* 2008, PASP 120, 1171. (8abd) Models of hard x-ray shock spectra for polars predict high mass for WD component.
V2670 Oph	2008, IAU Circ. 8998 (2ci, 5g) Spectroscopic features.
CN Ori	*Spogli, C. et al.* (7 authors) 2008, IBVS 5867. (1a, 6d) Multicolour photometry of active dwarf nova.
V1388 Ori (HD 42401)	*Williams, S.J.* 2009, AJ 137, 3222. (1aox, 2a, 5cde)
12 Per	*Leushin, V.V., Kuznetsov, M.K.* 2009, OAP 21, 57. (2c, 5h) Chemical composition and evolutionary status.
II Per	*Zhu, L.Y. et al.* (4 authors) 2009, AJ 137, 3574. (1ao, 5abc) Near-contact binary.
IU Per	*Zhang, X.-B., Zhang, R.-X., Li, Q.-S.* 2009, RAA 9, 422. (1ao, 5bc) An orbital period study and a LC analysis.
V471 Per	*Arkhipova, V.P. et al.* (5 authors) 2008, LeAZh 34, 927. (1b, 2c) Photoelectric and spectroscopic observations over the period 1971-2007.
RR Pic	*Schmidtobreick, L. et al.* (4 authors) 2008, MNRAS 389, 1345. (1ao, 5bi) Old nova showing superhumps and QPOs.

BX Psc	*İbanoğlu, C. et al.* (12 authors) 2009, MNRAS 392, 757. (1ao, 2abco, 5abcdeg) Absolute parameters based on photometric and spectroscopic observations.
EM Psc	*Qian, S.-B. et al.* (8 authors) 2008, AJ 136, 1940. (1aoi, 5abc) Totally eclipsing near-contact binary with distant companion.
V Pup	*Maccarone, T.J. et al.* (4 authors) 2009, MNRAS 393, 1070. (1rx, 5cegij) Constraints on BH accretion. *Qian, S.-B., Liao, W.-P, Lajus, E.F.* 2008, ApJ 687, 466. (5b) Third body suggests 10.4 solar mass BH in 5.47 year orbit.
VV Pup	*Mason, E. et al.* (5 authors) 2008, A&A 490, 279. (2aco, 5g) Secondary-star irradiation or stellar activity?
T Pyx	*Selvelli, P. et al.* (4 authors) 2008, A&A 492, 787. (1u, 1x, 5ij) Study of ejection and accretion.
UU Sge	*Afşsar, M., İbanoğlu, C.* 2008, MNRAS 391, 802. (1ao, 2a*, 5abcdeg, 8a) Photometry and modelling.
WZ Sge	*Howell, S.B. et al.* (7 authors) 2008, ApJ 685, 418. (1ai) Gaseous AD surrounded by larger dust AD.
HM Sge	*Sacuto, S., Chesneau, O.* 2009, A&A 493, 1043. (4c) Morphology of dust shell.
W Sgr	*Evans, N.R., Massa, D., Proffitt, C.* 2009, AJ 137, 3700. (2do, 6c) Cepheid in triple system with faint close companion and hot distant one.
V3885 Sgr	*Ribeiro, F.M.A., Diaz, M.P.* 2009, PASJ 61, 137. (2do) A study of flickering emission lines.
V4046 Sgr	*Kastner, J.H. et al.* (4 authors) 2008, A&A 492, 469. (2cr, 5i) Study of circumbinary disc.
V4444 Sgr	*Kamath, U.S., Ashok, N.M., Anupama, G.C.* 2008, BASI 36, 141. (1ci, 2ci) Near-infrared and optical spectra in the early decline phase of the 1999 nova outburst.
V4580 Sgr (SAX J1808.4−3658)	*Burderi, L. et al.* (7 authors) 2009, A&A 496, L17. (1x, 5b) Study of period variation. *Deloye, C.J. et al.* (4 authors) 2008, MNRAS 391, 1619. (1ao, 5bceg, 6c) Periodic flux modulation on the system's orbital period. *Di Salva, T. et al.* (5 authors) 2008, MNRAS 389, 1851. (1x*, 5bj) Timing analysis of four x-ray outbursts of accreting millisecond pulsar gives orbital period and its derivative. *Papitto, A. et al.* (8 authors) 2009, A&A 493, L39. (2x, 5i) Indication of truncated AD.
V4722 Sgr (SAX J1810.8−2609)	*Fiocchi, M. et al.* (11 authors) 2009, ApJ 693, 333. (1x, 2x) Renewed activity from LMXB.
V5511 Sgr (XTE J1814−338)	*Chung, C.T.Y. , Galloway, D.K., Melatos, A.* 2008, MNRAS 391, 254. (1x, 5bcefg, 8ad) Analysis of x-ray timing data and search for precession. *Leahy, D.A. et al.* (4 authors) 2009, ApJ 691, 1235. (1x) Constraints on equation of state of NS. *Watts, A.L., Patruno, A., Van der Klis, M.* 2008, ApJ 688, L37. (2dx) Burst oscillations coherent with persistent pulsations.
V5580 Sgr	2008, IAU Circ. 9004 (1ac, 2c, 4a, 5g, 6b) New classical nova. 2008, IAU Circ. 9005 (4a) Revised position.
V1033 Sco (GRO J1655−40)	*Debnath, D. et al.* (5 authors) 2008, BASI 36, 151. (5i) Spectral and timing evolution of the enigmatic LMXB.

	Wang, D-X. et al. (4 authors) 2008, MNRAS 391, 1332. (5ig, 8a) Association of the 3:2 HFQPO pairs with the broad Fe K line.
V1280 Sco	*Das, R.K. et al.* (4 authors) 2008, MNRAS 391, 1874. (1aio*, 2bci, 5cdeghj) Photometric and spectroscopic results.
V1309 Sco	2008, IAU Circ. 8976 (1cd, 2ci, 5g) "Fe II"-type nova. 2008, IAU Circ. 8997 (1ai, 2ci, 5g) A symbiotic nova?
V479 Sct (RX J1826.2−1450) (LS 5039)	*Bosch-Ramon, V.* 2009, A&A 493, 829. (5i) *Bosch-Ramon, V., Khangulyan, D., Aharonian, F.A.* 2008, A&A 489, L21. (2dg) HMXB magnetic field and location of the TeV emitter. *Hoffmann, A.D. et al.* (7 authors) 2009, A&A 494, L37. (1x, 2x) Hard x-ray variability. *Nagae, O. et al.* (6 authors) 2009, AJ 137, 3509. (3bo, 5gi) Little secular variation in polarization.
MR Ser	*Diaz, M.P., Cieslinski, D.* 2009, AJ 137, 296. (2d, 5bgj) Doppler tomography reveals ionization structure of flow.
RV Tri	*Yang, Y.-G., Wei, J.-Y.* 2009, AJ 137, 236. (1ao, 5abc)
RW Tri	*Halevin, A.V., Henden, A.A.* 2008, IBVS 5861. (1a, 5i) Eclipse mapping of nova-like star in low luminosity state.
BM UMa	*Yang, Y.-G., Wei, J.-Y., Nakajima, K.* 2009, PASJ 61, 13. (1ao, 5ab) A secular decrease and a cyclic variation of the orbital period.
MW UMa	*Nelson, R.H.* 2009, IBVS 5880. (2a, 5cde) New detached EB.
δ Vel	*Kervella, P., Thévenin, F., Petr-Gotzens, M.G.* 2009, A&A 493, 107. (1i) IR excess of interstellar origin.
GP Vel (Vel X-1)	*Kreykenbohm, I. et al.* (9 authors) 2008, A&A 492, 511. (1x, 2x, 5i) High variability.
LM Vel (IGR J08408−4503)	*Romano, P. et al.* (14 authors) 2009, MNRAS 392, 45. (1ax, 5bcg, 8a) Multiple flaring activity.
VV Vir	*Samec, R.G. et al.* (6 authors) 2008, AJ 136, 1667. (1ao, 5abc) Detached but near-contact system.
HW Vir	*Lee, J.W. et al.* (7 authors) 2009, AJ 137, 3181. (1ao, 2ao*, 5abcde) Cyclic period changes ascribed to light-time effect with possible planetary companions.
V458 Vul (Nova 2007)	*Tarasova, T.N.* 2009, OAP 21, 120. (2d) Spectroscopic monitoring. *Tsujimoto, M. et al.* (5 authors) 2009, PASJ 61, S69. (2dx, 5h) X-ray spectroscopy.

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

HD 1	*Griffin, R.F., McClure, R.D.* 2009, Observatory 129, 28. (2a, 5d)
HD 42401	(see V1388 Ori)
HD 46703	*Hrivnak, B.J. et al.* (6 authors) 2008, Aj 136, 1557. (1ao, 2ad, 5dghi) Variable metal-poor post-AGB binary.
HD 47129	(see V640 Mon)
HD 61199	*Hareter, M. et al.* (16 authors) 2008, A&A 492, 185. (1ao, 2ao) CB with a δ Sct companion.
HD 91669	*Wittenmyer, R.A. et al.* (7 authors) 2009, AJ 137, 3529. (2a, 5d) SB with probable brown-dwarf secondary.

HD 98800	*Verrier, P.E., Evans, N.W.* 2008, MNRAS 390, 1377. (8ab) Two eccentric SB systems of post-T Tauri K Stars with circumbinary disk around one pair.
HD 154517 (NSV 20913)	*İbanoğlu, C. et al.* (12 authors) 2008, MNRAS 390, 958. (1ao, 2ao, 5abcde) Eccentric detached EB.
HD 168078 (SAX J1818.6−1703)	*Zurita Heras, J.A., Chaty, S.* 2009, A&A 493, L1. (1x*, 5b) Study of temporal behaviour.
HD 172189	*İbanoğlu, C. et al.* (12 authors) 2009, MNRAS 392, 757. (1ao, 2abco, 5abcdeg) Absolute parameters based on photometric and spectroscopic observations.
HDE 350731	*Kleidis, S., Robertson, C.W., Wils, P.* 2008, IBVS 5860. (5abc) BVRcIc photometry of eccentric EB.
BD +53°2790 (4U 2206+54)	*Reig, P. et al.* (6 authors) 2009, A&A 494, 1073. (1x, 5b) Discovery of slow x-ray pulsations.

X-ray sources with constellation names

Aql X-1	(see V1333 Aql)
Cen X-3	(see V779 Cen)
Cir X-1	(see BR Cir)
Cyg X-1	(see V1357 Cyg)
Cyg X-2	(see V1341 Cyg)
Cyg X-3	(see V1521 Cyg)
Her X-1	(see HZ Her)
LMC X-1	(see 2MASS J05393883−6944356)
LMC X-3	(see 1RXS J053855.6−640457)
Vel X-1	(see GP Vel)

Objects with names including RA and DEC

XMMU J004215.8+411924	*Voss, R. et al.* (8 authors) 2008, A&A 489, 707. (1x, 2x, 5i) X-ray transient in M 31 observed with Swift.
SWIFT J004217.3+411532	*Voss, R. et al.* (8 authors) 2008, A&A 489, 707. (1x, 2x, 5i) X-ray transient in M 31 observed with Swift; probable BH LMXB.
XMMU J004911.4-724939 (SXP18.3)	*Church, M.P.E. et al.* (9 authors) 2009, MNRAS 392, 361. (1aox, 5bcg, 6c, 8ac) The newest transient Be/x-ray binary in the SMC.
RX J0146.9+6121	(see V831 Cas)
PSR J0205+6449	*Shearer, A., Neustroev, V.V.* 2008, MNRAS 390, 235. (1ao) Optical counterpart of x-ray/radio pulsar in SN remnant 3C58 detected.
PSR J0437−4715	*Deller, A.T. et al.* (4 authors) 2008, ApJ 685, L67. (4acr) New trigonometric parallax places constraints on general relativity.
RX J0502.8+1624	*Howell, S.B. et al.* (6 authors) 2008, AJ 136, 2541. (1ao, 2adoi, 5gij) Magnetic CV.
OGLE J051343.14−691837.1	*Ofir, A.* 2008, IBVS 5868. (1a) Two pairs of interacting EBs towards LMC in OGLE database.

OGLE J051553.32−692558.1	*Mennickent, R.E. et al.* (8 authors) 2008, MNRAS 389, 1605. (1aio*, 2acio, 5bij) Algol-type EB, LMC system with circumbinary disk.
OGLE J052218.07−692827.4	*Prša, A. et al.* (4 authors) 2008, A&A 489, 1209. (4b) System is optical blend.
RX J0529.3+1210	*Mace, G.N. et al.* (6 authors) 2009, AJ 137, 3487. (2a, 5d) Secondary spectrum of eccentric PMS binary detected.
OGLE J053448.262−694236.4 (LMC-SC1-105)	*Bonanos A.Z.* 2009, ApJ 691, 407. (1, 2a, 5cef) Observations and analyses of a massive EB - poor fit to LC.
2MASS J05352184−0546085	*Czesla, S., Schneider, P.C., Schmitt, J.H.M.M.* 2008, A&A 491, 851. (2dx) Discovery of x-ray emission from brown dwarf EB.
1RXS J053855.6−640457 (LMC X-3)	*Brown, G.E., Lee, C.-H., Mendez, E.M.* 2008, ApJ 685, 1063. (8c) Suggest it is a relic of a GRB.
2MASS J05393883−6944356 (LMC X-1)	*Cooke, R. et al.* (4 authors) 2008, ApJ 687, L29. (1ao) Discovery of ionization cone.
2MASS J05525473+3516102 (GSC 2414-0797)	*Robb, R.M. et al.* (6 authors) 2008, IBVS 5852. (2b, 5a, 6d) New contact binary.
1A 0620−00	(see V616 Mon)
Hess J0632+057	*Hinton, J.A. et al.* (10 authors) 2009, ApJ 690, L101. (1x, 2x) Discovery of a new γ-ray binary?
1RXS J070407.9+262501	*Anzolin, G. et al.* (7 authors) 2008, A&A 489, 1243. (2dx) New IP with a soft x-ray component.
IGR J08408−4503	(see LM Vel)
2MASS J10255650−5748435 (Wack 2134)	*Niemela, V.S. et al.* (8 authors) 2008, MNRAS 389, 1447. (2abc, 5bd) Super-massive WR+Of SB2 system with minimum masses of 87 and 53 $M_\odot$ and P = 31.7 d.
GRS 1124−68	(see GU Mus)
SDSS J121209.31+013627.7	*Howell, S.B. et al.* (6 authors) 2008, AJ 136, 2541. (1ao, 2adoi, 5gij) Magnetic CV.
SDSS J121258.25−012310.1	*Gómez-Morán, A.N. et al.* (11 authors) 2009, A&A 495, 561. (6b, 1ao, 2a, 5e) New post common envelope binary.
XB 1254−690	(see GR Mus)
GS 1354−64	(see BW Cir)
PSR J1518+4904	*Janssen, G.H. et al.* (7 authors) 2008, A&A 490, 753. (1r) Multi-telescope timing of NS+NS binary.
XTE J1550−564	(see V381 Nor)
ASAS J160048−4846.2	*Soejima, Y. et al.* (5 authors) 2009, PASJ 61, 395. (1ao, 5ab) Time-resolved photometry during a superoutburst and superhump evolution.
MS 1603.6+2600	(see UW CrB)
4U 1608−522	(see QX Nor)
SDSS J16103.64−010223.3	*Copperwheat, C.M. et al.* (9 authors) 2009, MNRAS 393, 157. (1ao, 5bcegi, 8a) ULTRACAM observations of the WD pulsator.
4U 1636−536	(see V801 Ara)
CXO J164710.2−455216	*Belczynski, K., Taam, R.E.* 2008, ApJ 685, 400. (8c) Suggest that this now single NS originally was in massive binary.
XTE J1650−500	*Montanari, E., Titarchuk, L., Fontera, F.* 2009, ApJ 692, 692. (1x, 2x) Observations of BH candidate. *Slaný, P., Stuchlík, Z.* 2008, A&A 492, 319. (5i) BH mass estimate.

GRO J1655−40	(see V1033 Sco)
MXB 1659−29	(see V2134 Oph)
4U 1705−440	*Homan, J. et al.* (4 authors) 2009, ApJ 692, 73. (2x) NIR counterpart due to disk and secondary star.
XMMU J171411−293159	*Guillot, S. et al.* (6 authors) 2009, MNRAS 392, 665. (1x, 4a, 5cg, 6c) LMXB in quiescence in globular cluster NGC 6304.
XMMU J171421−292717	*Guillot, S. et al.* (6 authors) 2009, MNRAS 392, 665. (1x, 4a, 5cg, 6c) LMXB in quiescence in globular cluster NGC 6304.
XMMU J171433−292747	*Guillot, S. et al.* (6 authors) 2009, MNRAS 392, 665. (1x, 4a, 5cg, 6c) LMXB in quiescence in globular cluster NGC 6304.
1E 1724−3045	*Altamirano, D. et al.* (6 authors) 2008, ApJ 687, 488. (2dx) Discovery of kilohertz QPOs.
MXB 1730−335	*Simon, V.* 2008, A&A 492, 135. (1x, 5i)
XTE J1739−302	*Blay, P. et al.* (9 authors) 2008, A&A 489, 669. (2dx) INTEGRAL long-term monitoring of the supergiant in the fast x-ray transient HMXB.
GRO J1744−28	*Xu, X.-J., Li, X.-D.* 2009, A&A 495, 243. (8cd) Study of long-period WD binary evolution.
EXO 1745−248	*Özel, F., Güver, Psaltis, D.* 2009, ApJ 693, 1775. (2x) Mass and radius (1.4-1.7 $M_\odot$, 9-11 km, respectively) of NS in XRB.
CXOGC J174536.1−285638	*Mikles, V.J. et al.* (4 authors) 2008, ApJ 689, 1222. (1x, 2x) Discovery of 189-d x-ray period of HMXB at galactic centre.
AX J1745.6−2901	*Hyodo, Y. et al.* (6 authors) 2009, PASJ 61, S99. (2dx, 5ab) Timing and spectral study in an outburst phase.
CXOUGC J174622.7−285218	*Muno, M.P. et al.* (26 authors) 2009, ApJS 181, 110. (1x, 2x) Discovery of 1745s period CV at galactic centre.
XTE J17464−3213	*Prat, L. et al.* (10 authors) 2009, A&A 494, L21. (1x, 2x) Early phase of outburst.
2MASS J17463047+5311579 (GSC 3889-0202)	*Dimitrov, D., Kraicheva, Z., Popov, V.* 2008, IBVS 5856. (1ab, 5cd, 6d) Short-period oscillations in new Algol-type system.
SAX J1748.2−2808	*Nobukawa, M. et al.* (4 authors) 2009, PASJ S93. (2cdx) An IP nature and a coherent pulsation.
AX J1749.1−2733	*Zurita Heras, J.A., Chaty, S.* 2008, A&A 489, 657. (2diox, 6c) Obscured and probably distant Be/x-ray HMXB.
SWIFT J1749.4−2807 (GRB060602B)	*Wijnands, R. et al.* (5 authors) 2009, MNRAS 393, 126. (1gx, 5cgi, 8a) An unusual transiently accreting NS x-ray binary.
IGR J17497−2821	*Paizis, A. et al.* (12 authors) 2009, PASJ 61, S107. (2dx) Broad-band spectral properties of AD.
GRO J1750−27	*Shaw, S.E. et al.* (6 authors) 2009, MNRAS 393, 419. (1gx, 5bcegi, 8a) Orbital parameters and detection of an intrinsic spin-up.
PSR J1753−2240	*Keith, M.J. et al.* (8 authors) 2009, MNRAS 393, 623. (1r, 5bceg, 6b, 8a) A mildly recycled pulsar in an eccentric binary system.
SWIFT J1753.5−0127	*Durant, M. et al.* (5 authors) 2009, MNRAS 392, 309. (1aox, 2bcox, 5cdg, 8a) Multiwavelength spectral and high time resolution observations.
1RXS J180108.7−250444 (GX 5-1)	*Jackson, N.K., Church, M.J., Bałucińska-Church, M.* 2009, A&A 494, 1059. (1x, 2x, 5j) QPO evolution.
1RXS J180340.0+401214	*Anzolin, G. et al.* (7 authors) 2008, A&A 489, 1243. (2dx) New IP with a soft x-ray component.

SAX J1808.4−3658	(see V4580 Sgr)
SAX J1810.8−2609	(see V4722 Sgr)
XTE J1814−338	(see V5511 Sgr)
XTE J1817−330	*Gierliński, M. et al.* (4 authors) 2009, MNRAS 392, 1106. (1oux, 5cgi, 8ab) Reprocessing of x-rays in the outer AD.
SAX J1818.6−1703	(see HD 168078)
RX J1826.2−1450	(see V479 Sct)
RX J1832−33 (XB 1832−330)	*Sidoli, L. et al.* (4 authors) 2008, A&A 488, 249. (2dx, 5h) LMXB in the galactic globular cluster NGC 6652.
AX J1845.0−0433	*Zurita Heras, J.A., Walter, R.* 2009, A&A 494, 1013. (1x*, 2x*) Variability study.
IGR J18483−0311	*Rahoui, F., Chaty, S.* 2008, A&A 492, 163. (1aor, 6c) Confirmed Be/x-ray binary.
XTE J1856+053	*Sala, G. et al.* (4 authors) 2008, A&A 489, 1239. (2dx) LMXB 2007 outburst.
SGR 1900+14	*Kaplan, D.L. et al.* (5 authors) 2009, AJ 137, 354. (4ax) Proper motion too uncertain to constrain origin.
GRS 1915+105	(see V1487 Aql)
4U 1957+11	(see V1408 Aql)
EXO 2030+375	(see V2246 Cyg)
4U 2206+54	(see BD +53°2790)
1E 2259+586	*Kaplan, D.L. et al.* (5 authors) 2009, AJ 137, 354. (4ax) Proper motion too uncertain to constrain origin.
2MASS J23371069+3136112 (GSC 2766-0775)	*Samec, R. et al.* (6 authors) 2008, Observatory 128, 463. (1aoi, 5abc) W UMa system with large bright region on surface.

Objects with other designations

AS 325	*Howell, S.B., Johnson, K.J., Adamson, A.J.* 2009, PASP 121, 16. (1o*, 2cdoi) Binary with variable cool component.
GD 358	(see V777 Her)
GRB060602B	(see SWIFT J1749.4−2807)
GSC 2414-0797	(see 2MASS J05525473+3516102)
GSC 2766-0775	(see 2MASS J23371069+3136112)
GSC 3889-0202	(see 2MASS J17463047+5311579)
GX 5-1	(see 1RXS J180108.7−250444)
GX 9+9	(see V2216 Oph)
GX 339-4	(see V821 Ara)
IC 10 X-1	*Barnard, R., Clark, J.S., Kolb, U.C.* 2008, A&A 488, 697. (2dx, 5i) BH+WR XB.
LMC-SC1-105	(see OGLE J053448.262−694236.4)
LS 5039	(see V479 Sct)
LS I +61°235	(see V831 Cas)
LS I +61°303	(see V615 Cas)

M101	*Coelho, E.A., Shafter, A.W., Misslet, K.A.* 2008, ApJ 686, 1261. (1ao) Nova count yields nova rate per year for M101.
M31N 2006-11a	*Voss, R. et al.* (8 authors) 2008, A&A 489, 707. (1x, 2x, 5i) X-ray transient in M31 observed with Swift; nova.
NGC 300 X-1	*Barnard, R., Clark, J.S., Kolb, U.C.* 2008, A&A 488, 697. (2dx, 5i) Probable BH+WR XB.
NGC 6791 V20	*Grundahl, F. et al.* (4 authors) 2008, A&A 492, 171. (1ao, 2ao, 5e) Distance estimate.
Nova in LMC	2009, IAU Circ. 9019 (1ac, 2c, 4a, 5g, 6b) Discovery of possible recurrent nova.
NSV 20913	(see HD 154517)
SN 1572	(see B Cas)
SN Ia 2007on	*Roelofs, G. et al.* (4 authors) 2008, MNRAS 391, 290. (1x, 4a, 5g, 6c) On the detection of a progenitor.
SXP18.3	(see XMMU J004911.4-724939)
Wack 2134	(see 2MASS J10255650−5748435)

General

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Davis, P.J. et al. (4 authors) 2008, MNRAS 389, 1563. How many CVs are crossing the period gap? A test for the disruption of magnetic braking.

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CW Sge, AU Ser, BI Ser, V384 Ser, TY Tau, AH Tau, AN Tau, AP Tau, BN Tau, CD Tau, CU Tau, ET Tau, GW Tau, V1128 Tau, X Tri, TY UMa, UX UMa, UY UMa, VV UMa, XZ UMa, ZZ UMa, AA UMa, AW UMa, BH UMa, DW UMa, ES UMa, IW UMa, KM UMa, LP UMa, MQ UMa, RZ UMi, AG Vir, AW Vir, AX Vir, AZ Vir, CG Vir, VV Vul, XZ Vul, AX Vul, BU Vul, EV Vul, GP Vul, GR Vul, HI Vul.

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V1043 Her, V1047 Her, V1055 Her, V1065 Her, V1073 Her, V1097 Her, GSC 2056-0117, GSC 3510-1283, GSC 3097-1297, GSC 2615-1821, FG Hya, XZ Leo, AM Leo, GV Leo, RT LMi, RZ Lyn, BG Lyn, DZ Lyn, GSC 2495-1146, TZ Lyr, AH Lyr, DF Lyr, QU Lyr, V400 Lyr, V396 Mon, GSC 0143-1718, GSC 2751-1007, KW Per, V432 Per, V462 Per, V579 Per, V680 Per, GSC 2366-3002, WY Tau, CT Tau, GQ Tau, V471 Tau, GSC 1830-1432, XZ UMa, AA UMa, BM UMa, HN UMa, MQ UMa, GSC 3449-0688, RU UMi, HW Vir, GSC 2140-1485.

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