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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

V455 And	*Matsui, R. et al.* (20 authors) 2009, PASJ 61, 1081. (1aio, 5i) Optical and near-IR photometry during a superoutburst.
96 Aqr	*Griffin, R.F.* 2009, Observatory 129, 147. (2a, 5d)
R Aqr	*Nichols, J., Slavin, J.D.* 2009, ApJ 699, 902. (2x) Nature of jets in system.
VY Aqr	*Harrison, T.E. et al.* (6 authors) 2009, AJ 137 , 4061. (1i, 2dio, 5c) LC inconsistent with spectral type.
DY Aqr	*Soydugan, E. et al.* (8 authors) 2009, IBVS 5902. (1a, 5g) Discovery of δ Scuti-type oscillations.
HU Aqr	*Schwarz, R. et al.* (8 authors) 2009, A&A 496, 833. (1ao, 2dx, 5bi) Eclipsing polar.
V368 Aql (Nova 1936 No.2)	*Marin, E., Shafter A.W.* 2009, PASP 121, 1090. (1ao, 5b) Orbital period is twice previously published one.
V1343 Aql (SS 433)	*Cherepashchuk, A.M. et al.* (4 authors) 2009, MNRAS 397, 479. (1x, 5abcegi, 8ab) The nature of hard x-ray eclipse.
	Krivosheyev, Yu.M. et al. (4 authors) 2009, MNRAS 394, 1674. (1x*, 5i, 8abd) X-ray continuum modelling provides physical parameters of emitting regions (AD, jets, corona).
	it Perez S.M., Blundell, K.M. 2009, MNRAS 397, 849. (2abci, 5cegijk, 8ab) Inflow and outflow from the AD.
V1487 Aql (GRS 1915+105)	*Arai, A. et al.* (24 authors) 2009, PASJ 61, L1. (1io) Anti-correlation of near IR and x-ray variations.
	Neilsen, J., Lee, J.C. 2009, Nature 458, 481. (2dx*, 5i) AD winds provide jet suppression mechanism in this microquasar.
	Yoshihiro, U., Kazutaka, Y., Remillard, R. 2009, ApJ 695, 888. (2cdx) Most energy produced in Comptonization corona.
V1494 Aql (Nova 1999 No.2)	*Rohrbach, J.G., Ness, J.-U., Starrfield, S.* 2009, AJ 137, 4627. (1x, 2dx) Evolution of x-ray emission.
V801 Ara (4U 1636−53)	*Zhang, G. et al.* (5 authors) 2009, MNRAS 398, 368. (1x*, 5cg) Detection of a triple-peaked x-ray burst.
V821 Ara (GX 339-4)	*Wilkinson, T., Uttley, P.* 2009, MNRAS 397, 666. (1x, 5cgi, 8a) Accretion disc variability in the hard state.
SS Ari	*Liu, L. et al.* (5 authors) 2009, Ap&SS 321, 19. (1ao, 5bc)
TT Ari	*Kim, Y. et al.* (5 authors) 2009, A&A 496, 765. (1ai) Nova-like CV.
α Aur	*Torres, Guillermo, A.C., Young, P.A.* 2009, ApJ 700, 1349. (5d) Binary orbit, physical properties, and evolutionary state of Capella.
6 Boo	*Griffin, R.F.* 2009, J. Ap. Astron. 30, 95. (2a, 5d) New spectroscopic data.
AR Boo	*Lee, J.W. et al.* (5 authors) 2009, AJ 138, 478. (1ao, 5abcg) Long-period (7.57y) fluctuations of P probably due to magnetic activity, not to third body.
12 Cam	*Zboril, M., Messina, S.* 2009, Astron. Nachr. 330, 377. (1ao, 5g) Long-term photometric study reveals multiperiodic magnetic cycles of spotted stars.
TX Cnc	*Zhang, X.B., Deng, L., Lu, P.* 2009, AJ 138, 680. (1aoi, 5abce) Member of Praesepe cluster.

WY Cnc	*Tian, Y. et al.* (4 authors) 2009, PASJ 61, 675. (5b) Secular period decrease.
HM Cnc	*Wood, M.A.* 2009, MNRAS 395, 378. (1x*, 8ab) Synthetic LCs for ultra-compact WD + WD binary with $P = 5.4$ min; mass transfer impacts WD surface without AD.
η Car	*Gull, T. R. et al.* (12 authors) 2009, MNRAS 396, 1308. (2bc, 5dg, 8ab) Extended interacting wind structure.
	Kashi, A., Soker, N. 2009, MNRAS 394, 923. (2i*, 5j) He I 10830 P Cygni profile explained by colliding stellar winds several months before periastron passage.
	Kashi, A., Soker, N. 2009, MNRAS 397, 1426. (1x, 5cgij, 8a) Exploring the binary interaction using x-ray observations.
	Parkin, E.R. et al. (5 authors) 2009, MNRAS 394, 1758. (1x*, 5j) 3D modelling of colliding winds.
AG Car	*Groh, J.H. et al.* (6 authors) 2009, ApJ 698, 1698. (1di, 2du) Nature of a prototype luminous blue variable.
ZZ Cas	*Liao, W.-P., Qian, S.-B.* 2009, PASJ 61, 777. (1ao, 5ab) Period changes and the third body.
BH Cas	*Arranz Heras, T. Sánchez-Bazo, F.* 2009, Observatory 129, 88. (1ao, 5ab) Constant period for W UMa system.
V364 Cas	*Nelson, R.H.* 2009, IBVS 5884. (2a, 5bcd) Evolved detached EB.
V523 Cas	*Köse, O., Keskin, V., Yakut, K.* 2009, Ap&SS 323, 75. (1ao, 2ao*, 5bce)
V615 Cas (LS I +61°303)	*Abdo, A.A. et al.* (183 authors) 2009, ApJ 701, L123. (1g, 2g) First γ-ray LCs of HMXRB.
	Acciari, V.A. et al. (87 authors) 2009, ApJ 700, 1034. (1xg, 2xg) Multi-wavelength observations.
	Aragona, C. et al. (8 authors) 2009, ApJ 698, 514. (2ao, 5d) New model.
	Muñoz-Arjonilla, A.J. et al. (7 authors) 2009, A&A 497, 457. (2dxg) Soft γ-ray flare in the direction of this HMXB.
V635 Cas (4U 0115+63)	*Ferrigno, C. et al.* (5 authors) 2009, A&A 498, 825. (2dx, 5i) Study of the accreting pulsar in this HMXB using a bulk and thermal Comptonization model.
V664 Cas	*Boumis, P. et al.* (4 authors) 2009, MNRAS 396, 1186. (1ao, 5cg, 8ab) A long trail behind the planetary nebula HFG1 and its precataclysmic binary.
V821 Cas	*Çakirli, ́O. et al.* (4 authors) 2009, MNRAS 395, 1656. (1aou, 2abc, 5abcdefg, 8ac) Absolute parameters and evolutionary model.
BV Cen	*Morel, M., Plummer, A.* 2009, Southern Stars 48, 19. (1o)
NN Cen	*Chen, W.-C.* 2009, A&A 499, L1. Causes of the period change in this dwarf nova.
V636 Cen	*Clausen, J.V. et al.* (7 authors) 2009, A&A 502, 253. (1ao, 2aco, 5ef) Effect of magnetic field on stellar parameters.
V842 Cen (Nova 1986)	*Woudt, P. A. et al.* (4 authors) 2009, MNRAS 395, 2177. (1aoux, 5bcgi) 57 second oscillations deduced from high speed photometry.
V1213 Cen	2009, IAU Circ. 9043 (1a, 2c, 4a, 6b) Discovery and designation of nova.
β Cep	*Wheelwright, H.E., Oudmaijer, R.D., Schnerr, R.S.* 2009, A&A 497, 487. (2do, 5dk) System has a close Be-star companion.

CX Cep	*Hutton, K., Henden, A., Terrell, D.* 2009, PASP 121, 708. (1ao, 2do*, 5cde) WR + O system.
EG Cep	*Zhu, L.-Y. et al.* (5 authors) 2009, PASJ 61, 529. (1ao, 5ab) Period study.
RS Cha	*Böhm, T. et al.* (5 authors) 2009, A&A 497, 183. (2o) Discovery of non-radial pulsations.
UW CrB	*Hakala, P. et al.* (4 authors) 2009, MNRAS 394, 892. (1o) Evidence for 5-day superorbital period due to AD effects of LMXB.
BI Cru	*Contini, M., Angeloni, R., RAfanelli, P.* 2009, MNRAS 396, 807. (1air*, 2bcou, 5gh, 8ab) Shock fronts in the system.
BF Cyg	*Formiggini, L., Leibowitz, E. M.* 2009, MNRAS 396, 1507. (1ao, 5bcgk) The discovery of a coherent periodicity in the LC of the system.
CH Cyg	*Burmeister, M., Leedjärv, L.* 2009, A&A 504, 171. (2co, 5j) Symbiotic binary study.
	Contini, M., Angeloni, R., Rafanelli, P. 2009, Astron. Nachr. 330, 816. (1abx*u*o*i*r*, 2abcd, 5ij, 8b) Multi-frequency analysis of line and continuum spectra of symbiotic system.
	Contini, M., Angeloni, R., Rafanelli, P. 2009, A&A 496, 759. (2cu, 5g) Broad Lyα emission in symbiotic variable explained by shocks.
	Pedretti, E. et al. (13 authors) 2009, MNRAS 397, 325. (2ao, 4ci, 5ceg, 8a) Detection of non-radial pulsation and faint companion.
EM Cyg	*Godon, P. et al.* (4 authors) 2009 ApJ 699, 1229. (2du, 5ghijk) FUSE spectra unveil WD.
MY Cyg	*Wolf, M.* 2009, A&A 498, 821. (5abf)
V404 Cyg	*Miller-Jones, J.C.A. et al.* (8 authors) 2009, MNRAS 394, 1440. (1r, 4a) BH formation in x-ray system discussed.
V448 Cyg	*Djurašević, G. et al.* (4 authors) 2009, MNRAS 396, 1553. (1ao, 5abcegi, 8ab) AD in the system.
V453 Cyg	*Pavlovski, K., Southworth, J.* 2009, MNRAS 394, 1519. (2o, 5gh) Spectral disentangling technique used to derive atmospheric parameters and chemical abundances of B-type components of eclipsing SB2 system; evolutionary state discussed.
V700 Cyg	*Xiang, F. et al.* (4 authors) 2009, PASJ 61, 499. (1ao, 5ab) Orbital period changes.
	Yang, Y.-G., Dai, H.-F. 2009, PASJ 61, 577. (1ao, 5abce) Period study and LC analysis.
V751 Cyg	*Zellem, R. et al.* (7 authors) 2009, PASP 121, 942. (2du, 5i) Attempt to fit AD models to HST STIS spectra.
V1341 Cyg (Cyg X-2)	*Elebert, P. et al.* (4 authors) 2009, MNRAS 395, 2029. (2a, 5defgi) Optical spectroscopy and Doppler tomography.
	Farinelli, R. et al. (4 authors) 2009, A&A 498, 509. (2dx, 5i) X-ray spectral evolution in the framework of bulk Comptonization.
V1357 Cyg (Cyg X-1)	*Dong, A.-J., Wang, J.-C., Xue, L.* 2009, Chinese Astron. Ap. 33, 265. (2dx) Long-term spectral variability.
	Wu, Y.X. et al. (5 authors) 2009, ApJ 695, 921. (2dx*) Propose timescale-resolved spectroscopy as a new method to combine timing.
V1521 Cyg (Cyg X-3)	*Axelsson, M., Larsson, S., Hjalmarsdotter, L.* 2009, MNRAS 394, 1544. (1x, 5i) Soft x-ray variability on short and long time scales.
	Ling. Z., Zhang, S.N., Tang, S. 2009, ApJ 695, 1111. (2dx*) Distance determination by cross-correlation method.

	Miller-Jones, J.C.A. et al. (6 authors) 2009, MNRAS 394, 309. (1r, 5j) Modelling of low-level flares.
	Vilhu, O. et al. (5 authors) 2009, A&A 501, 679. (2a, 5d). Orbital modulation of emission lines.
V1687 Cyg (WR 140)	*Williams, P. M. et al.* (9 authors) 2009, MNRAS 395, 1749. (1ai, 5cg, 8ab) Orbitally modulated dust formation.
V2468 Cyg	2009, IAU Circ. 9054 (2ci) Nova at coronal phase.
V2491 Cyg (Nova 2008b)	*Hachisu, I., Kato, M.* 2009, ApJ 694, L103. (1aoi, 2dx, 5e) Estimate of WD mass from optical, x-ray LCs.
	Ibarra, A. et al. (15 authors) 2009, A&A 497, L5. (2dx*) Pre-nova x-ray observations.
	Naik, S., Banerjee, D.P.K., Ashok, N.M. 2009, MNRAS 394, 1551. (1ao*, 2cdi) Early decline phase near-IR spectra of classical nova analyzed.
TY Del	*Zasche, P., Uhlař, R.* 2009, RMxAA 45, 205. (1ao, 5abc) Possible light-time effect and apsidal motion.
AA Dor	*Rucinski, S.* 2009, MNRAS 395, 2299. (2abc*, 5bdeg) Mass ratio and orbital parameters.
AB Dor	*Budding, E. et al.* (5 authors) 2009, Astron. Nachr. 330, 358. (1ao*r, 2c, 5g) Chromospheric activity of magnetically active component of multiple system.
ω Dra	*Fekel, F.C., Tomkin, J., Williamson, M.H.* 2009, AJ 137, 3900. (2a, 5de)
29 Dra	*Zboril, M., Messina, S.* 2009, Astron. Nachr. 330, 377. (1ao, 5g) Long-term photometric study reveals multiperiodic magnetic cycles of spotted stars.
AG Dra	*Munari, U. et al.* (9 authors) 2009, PASP 121, 1070. (1ao, 2do) Evolution of 2006-8 outburst.
SU Equ	*Behre, O., Hempelmann, A.* 2009, Astron. Nachr. 330, 733. (1ao, 5bc) Suspected EB character ruled out, reclassified as RRc Lyrae-type star.
EI Eri	*Washuettl, A., Strassmeier, K.G., Weber, M.* 2009, Astron. Nachr. 330, 366. (2o, 5g) Doppler imaging results from 11 years monitoring of RS CVn-type star.
U Gem	*Dai, Z., Qian, S.* 2009, Ap&SS 321, 91. (1ao, 1v*, 5ab) Hypothesis of a third body.
V345 Gem	*Yang, Y.-G. et al.* (4 authors) 2009, AJ 138, 540. (1ao, 5abc) Light-time effect detected.
108 Her	*Fekel, F.C., Tomkin, J., Williamson, M.H.* 2009, AJ 137, 3900. (2a, 5de)
DQ Her	*Dai, Z.B., Qian, S.B.* 2009, A&A 503, 883. (1a, 1v*, 5ab) Hypothesis of a third body.
HZ Her (Her X-1)	*Ji, L. et al.* (5 authors) 2009, ApJ 700, 977. (1x, 2x) Photoionized AD.
	Staubert, R., Klochkov, D., Wilms, J. 2009, A&A 500, 883. (5b) Eccentricity determination.
V1084 Her (RX J1643.7+3402)	*Rodríguez-Gil, P., Martínez-Pais, I.G., de la Cruz Rodríguez, J.* 2009, MNRAS 395, 973. (2o, 3b, 5i) Modulated circular polarization, presence of a magnetic WD in this SW Sex-type system.
DF Hya	*Xiang, F. et al.* (4 authors) 2009, PASJ 61, 707. (1bo, 5ab) Period changes and system evolution.
V396 Hya (CE 315)	*Nagel, T., Rauch, T., Werner, K.* 2009, A&A 499, 773. (5i). NLTE AD models for AM CVn systems applied to this CV.

GZ Leo	*Gálvez, U.C. et al.* (5 authors) 2009, AJ 137, 3965. (2a, 5de) Chromospherically active SB2.
GW Lib	*Hiroi, K. et al.* (16 authors) 2009, PASJ 61, 697. (2do, 5i) Coordinated spectroscopic observations during a superoutburst.
BK Lyn	*Zellem, R. et al.* (7 authors) 2009, PASP 121, 942. (2du, 5i) Fit AD models to HST STIS spectra.
V453 Mon	*Köse, O., Keskin, V., Yakut, K.* 2009, Ap&SS 323, 75. (1ao, 2ao*, 5bce)
V694 Mon (MWC 560)	*Stute, M., Sahai, R.* 2009, A&A 498, 209. (2dx) Detection of x-rays from the jet-driving symbiotic star.
V789 Mon	*Gálvez, U.C. et al.* (5 authors) 2009, AJ 137, 3965. (2a, 5de) Chromospherically active SB2.
V381 Nor (XTE J1550−564)	*Chakrabarti, S.K., Dutta, B.G., Pal, P.S.* 2009, MNRAS 394, 1463. (1x) QPOs during outburst of BH + low-mass companion system studied. *Hannikainen, D.C. et al.* (9 authors) 2009, MNRAS 397, 569. (1r, 5cgj, 8a) Relativistic jets during the 1998 outburst.
ν Oct	*Ramm, D.J. et al.* (4 authors) 2009, MNRAS 394, 1695. (2a, 4a, 5bd) Orbital solution of K giant SB1 system; resonant RV perturbation detected.
RS Oph	*Brandi, E. et al.* (5 authors) 2009, A&A 497, 815. (2aoi, 5dei) Spectroscopic orbits and variations of the symbiotic variable.
V380 Oph	*Zellem, R. et al.* (7 authors) 2009, PASP 121, 942. (2du, 5i) Attempt to fit AD models to HST STIS spectra.
V532 Oph	*Clayton, G.C. et al.* (4 authors) 2009, PASP 121, 461. (1ao, 2do) Not an EB but an RCrB star.
V2615 Oph	*Das, R.K., Banerjee, D.P.K., Ashok, N.M.* 2009, MNRAS 398, 375. (1ai, 2cdi, 5cdgh) Detection and evolution of CO emission.
V2672 Oph	2009, IAU Circ. 9064 (1a, 2c, 4a, 6b) Discovery and designation of nova.
V343 Ori	*Yang, Y.-G.* 2009, PASP 121, 699. (1ao, 5abc) Spotted contact binary.
70 Peg	*Griffin, R.F.* 2009, Observatory 129, 198. (2a, 5d)
BG Peg	*Soydugan, E. et al.* (8 authors) 2009, IBVS 5902. (1a, 5g) Discovery of δ Scuti-type oscillations.
V405 Peg	*Thorstensen, J.R. et al.* (8 authors) 2009, PASP 121, 465. (1aoi, 2ado, 5cd) Nearby low-luminosity CV.
58 Psc	*Griffin, R.F.* 2009, Observatory 129, 198. (2a, 5d)
RV Psc	*He, J., Qian, S.* 2009, Ap&SS 321, 209. (1ao, 1av*, 5bc) Hypothesis of third body.
ZZ Psc (G 29-38)	*Koester, D.* 2009, A&A 498, 517. Accretion and diffusion time scales.
EI Psc	*Harrison, T.E. et al.* (6 authors) 2009, AJ 137 , 4061. (1i, 2di, 5c)
V597 Pup	*Naik, S., Banerjee, D.P.K., Ashok, N.M.* 2009, MNRAS 394, 1551. (1ao*, 2cdi) Early decline phase near-IR spectra of classical nova analyzed. *Warner, B., Woudt, P.A.* 2009, MNRAS 397, 979. (1ao, 5abcg) Photometric study.
β Ret	*Ramm, D.J. et al.* (4 authors) 2009, MNRAS 394, 1695. (2a, 4a, 5bd) Orbital solution of K giant SB1 system; resonant RV perturbation detected.
υ Sgr	*Netolický, M. et al.* (7 authors) 2009, A&A 499, 827. (4ci, 8b) Circumbinary dusty disk around the hydrogen-deficient binary star.

V4580 Sgr (SAX J1808.4−3658)	*Burderi, L. et al.* (7 authors) 2009, A&A 496, L17. (2dx, 5k) LMXB. Timing of the LMXB 2008 outburst; orbital-period derivative stable over ten years.
	Cackett, E.M. et al. (7authors) 2009, ApJ 694, L21. (2dx, 5i) Modelling of broad relativistic Fe line gives AD inner radius.
	Elebert, P. et al. (11 authors) 2009, MNRAS 395, 884. (1ao, 2ao) Phase-resolved spectroscopy and photometry of optical counterpart of millisecond pulsar during 2008 outburst.
	Hartman, J.M., Watts, A.L., Chakrabarty, D. 2009, ApJ 697, 2102. (2bx*) Luminosity and energy dependence of pulse phase lags.
	Wang, Z. et al. (4 authors) 2009, ApJ 694, 1115. (1do) Period modulation present in optical.
	Zhongxiang, G. et al. (4 authors) 2009, ApJ 694, 393. (1ao,5b) Period modulation does not arise from AD.
V5581 Sgr	2009, IAU Circ. 9041 (1a, 2c, 4a, 6b) Classical nova in decline phase. 2009, IAU Circ. 9048 Designation.
V5582 Sgr	2009, IAU Circ. 9049 (1ac, 2c, 4a, 6b) Classical nova in decline phase.
δ Sco (HD 143275)	*Tango, W.J. et al.* (8 authors) 2009, MNRAS 396, 842. (1ao, 2a, 4c, 5bcde) New determination of the orbit and masses.
V818 Sco	*de Vries, C.P., Costantini, E.* 2009, A&A 497, 393. (2dx) Amorphous solid interstellar material in LMXB.
V1033 Sco (GRO J1655−40) (Nova 1994)	*González Hernández, J.I., Rebolo, R., Israelian, G.* 2009, A&A 499, 891. Improved chemical analysis of BH binary.
	Kallman, T. R., et al. (8 authors) ApJ 701, 865. (2cx) Synthesis of the x-ray spectrum.
V1280 Sco	2009, IAU Circ. 9046 (2ci) Spectroscopic features of nova.
V479 Sct (LS 5039)	*Aragona, C. et al.* (8 authors) 2009, ApJ 698, 514. (2ao, 5d) New model.
	Takahashi, T. et al. (9 authors) 2009, ApJ 697, 592. (2dx) Strong modulation in x-ray.
NP Ser (GX 17+2)	*Bornak, J. et al.* (6 authors) 2009, ApJ 701, L110. (1i, 2i) K-band 3.5-mag brightenings - evidence for a synchotron jet in LMXB?
CF Tuc	*Doğru, D. et al.* (4 authors) 2009, MNRAS 397, 1647. (1ao, 2abc, 5abcdeg, 8ac) A photometric and spectroscopic study.
SW UMa	*Soejima, Y. et al.* (19 authors) 2009, PASJ 61, 659. (1ao) Superhump evolution and QPOs.
DI UMa	*Rutkowski, A. et al.* (6 authors) 2009, A&A 497, 437. (1a, 5bc) Active dwarf nova.
DM UMa	*Rosario, M.J. et al.* (4 authors) 2009, MNRAS 394, 872. (1ao, 5g) Long-term photometric star-spot monitoring.
KV UMa (XTE J1118 + 480)	*Fragos, T. et al.* (7 authors) 2009, ApJ 697, 1057. (8c) Requires an asymmetrical natal kick.
BF Vel	*Manimanis, V.N., Vamvatira-Nakou, C., Niarchos, P.G.* 2009, Ap&SS 323, 115. (1ao, 5c) Pulsating component.
LM Vel (IGR J08408−4503)	*Sidoli, L. et al.* (11 authors) 2009, MNRAS 397, 1528. (1x, 5bcg) New x-ray outbursts.
UW Vir	*Zhang, J., Qian, S.-B., Boonrucksar, S.* 2009, Chinese Astron. Ap. 33, 279. (1o, 5b) Physical mechanisms of orbital period variations.

UY Vol (EXO 0748−676)	*Kotze, M.M., Charles, P.A., Crause, L.A.* 2009, MNRAS 395, 1579. (1ax*, 5bcg, 8a) Discovery of long-term superorbital periodicities.
	van Peet, J.C.A. et al. (5 authors) 2009, A&A 497, 805. (2dx, 5i) Ionized plasma in the vicinity of the NS XB.
	Wolff, M.T. et al. (4 authors) 2009, ApJS 183, 156. (1x, 5a) Times of x-ray minima of LMXB.
31 Vul	*Griffin, R.F.* 2009, Observatory 129, 198. (2a, 5d)
PU Vul	*Kato, M., Hachisu, I.* 2009, ApJ 699, 1293. (8bd) Nova envelope solutions with optically thick winds.
V407 Vul	*Wood, M.A.* 2009, MNRAS 395, 378. (1x*, 8ab) Synthetic LCs for ultra-compact WD + WD binary with $P = 9.5$ min; mass transfer impacts WD surface without AD.
V458 Vul (Nova 2007)	*Ness, J.-U. et al.* (21 authors) 2009, AJ 137, 4160. (1ux, 2x, 5j) Monitoring and interpretation of hard x-ray emission.

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

HD 49798 (RX J0648.0−4418)	*Mereghetti, S. et al.* (6 authors) 2009, Science 325, 1222. (2dx, 5bcek) Ultramassive, fast-spinning WD in HMXB.
HD 82191	*Fekel, F.C., Tomkin, J., Williamson, M.H.* 2009, AJ 137, 3900. (2a, 5de)
HD 143275	(see δ Sco)
HD 146875	*Wang, H.J. et al.* (4 authors) 2009, A&A 500, 1215. (1ao, 2ab, 5e, 6b) ZAMS components.
HD 149382	*Geier, S., et al.* (4 authors) 2009, ApJ 702, L96. (2a, 5d, 6b) Discovery of close substellar companion to hot subdwarf.
HD 152219	*Sana, H.* 2009, A&A 501, 291. (2ac). Line profile variability.
HD 212827	*Griffin, R.F., Griffin, R.E.M.* 2009, Observatory 129, 80. (2ad) RV constant, not a SB.
HD 216572	*Griffin, R.E.M., Griffin, R.F.* 2009, MNRAS 394, 1393. (1ao*, 2ab, 5bcdek) Triple system consisting of G8 III giant and B9 + B9 V eclipsing SB2 binary.
HIP 96515	*Huélamo, N. et al.* (11 authors) 2009, A&A 503, 873. (1ao*, 2a*, 4a) Hierarchical triple EB - WD.
BD+65°1939 (GSC 4293-0432)	*Dimitrov, D., Kraicheva, Z., Popov, V.* 2009, IBVS 5892. (1a, 5bcd, 6d) Short-period oscillations in Algol-type system.
BD+53°2790	*Blay, P., Ribó, M., Negueruela, I.* 2009, Ap&SS 320, 145. (2cu*) Very peculiar wind for Be star.

X-ray sources with constellation names

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-4	(see 1RXS J053246.1−662203)

Objects with names including RA and DEC

IGR J00234+6141	*Anzolin, G. et al.* (8 authors) 2009, A&A 501, 1047. (1x, 2dx) Timing and spectral analysis.
4U 0115+63	(see V635 Cas)
HS 0218+3229	*Rodríguez-Gil, P. et al.* (8 authors) 2009, A&A 496, 805. (1ai, 2ao, 5cdek) CV.
2MASS J03371407+6910498 (GJ 3236)	*Irwin, J., et al.* (17 authors) 2009, ApJ 701, 1436. (1ai, 2a, 5acd) Discovery of a very low-mass EB.
4U 0513−40	*Zurek, D.R. et al.* (5 authors) 2009, ApJ 699, 1113. (1x, 2x) Ultra-compact XB with 17-minute period.
1RXS J053234.9+624755	*Imada, A. et al.* (11 authors) 2009, PASJ 61, L17. (1ao, 5i) Time-resolved photometry of a superoutburst.
1RXS J053246.1−662203 (LMC X-4)	*Neilsen, J., et al.* (5 authors) 2009, ApJ 696, 182. (2dx) New evidence confirms AD precession.
2MASS J05393883−6944356 (LMC X-1)	*Gou, L. et al.* (10 authors) 2009, ApJ 701, 1076. (2x) Determination of the spin parameter for extragalactic x-ray binary. *Orosz, J.A. et al.* (13 authors) 2009, ApJ 697, 573. (1aio, 2do, 5be) A fairly complete model.
XMMU J054134.7−682550	*İnam, S. Ç, et al.* (6 authors) 2009, MNRAS 395, 1662. (1x, 2dx, 5bcg) Analysis of RXTE-PCA observations. *Manousakis, A. et al.* (4 authors) 2009, A&A 498, 217. (2dx, 5i) Pulsed thermal emission from the accreting pulsar in the HMXB.
SAX J0635.2+0533	*Mereghetti, S., La Palombara, N.* 2009, A&A 504, 181. (2dx, 5i) Low-luminosity state.
RX J0648.0−4418	(see HD 49798)
ASAS J071829−0336.7	*Pribulla, T., Vanko, M., Hambalek, L.* 2009, IBVS 5886. (5ab, 6d) Short-period end for contact binaries redefined.
EXO 0748−676	(see UY Vol)
SDSS J080434.20+510349.2	*Kato, T. et al.* (12 authors) 2009, PASJ 61, 601. (1ao) Multiple rebrightenings.
SDSS J080449.49+161624.8	*Roelofs, G.H.A. et al.* (9 authors) 2009, MNRAS 394, 367. (2bco*, 5b, 6b) New AM CVn binary with 44 min period detected.
IGR J08408−4503	(see LM Vel)
XTE J0929−314	*Iacolina, M.N. et al.* (5 authors) 2009, A&A 497, 445. (3br) Pulsed emission from XB at high radio frequencies.
2MASS J10180498−5816263 (WR 19)	*Williams, P.M., Rauw, G., van der Hucht, K.A.* 2009, MNRAS 395, 2221. (1ai, 2abc, 5bcdeg, 8ab) Orbitally modulated dust formation.
SDSS J102320.27+440509.8 (NSV 4838)	*Imada, A. et al.* (19 authors) 2009, PASJ 61, 535. (1ao) Time-resolved photometry during superoutbursts.
FIRST J102347.67+003841.2 (PSR J1023+0038)	*Archibald, A.M. et al.* (18 authors) 2009, Science 324, 1411. (1r, 5b) Radio pulsar/XB link.
XTE J1118 + 480	(see KV UMa)

IGR J11215−5952	*Romano, P. et al.* (6 authors) 2009, ApJ 696, 2068. (2dx, 5d) Propose that outbursts are from NS passing through wind of supergiant companion.
SDSS J120615.73+510047.0	*Schwope, A.D. et al.* (4 authors) 2009, A&A 500, 867. (1a, 2b, 5i) Low accretion-rate magnetic binary.
XSS J12270−4859	*Saitou, K. et al.* (4 authors) 2009, PASJ 61, L13. (1x, 2xd) Indications of LMXB nature.
PSR B1259−63 (SS 2883)	*Chernyakova, M. et al.* (5 authors) 2009, MNRAS 397, 2123. (1x, 5cg) Study of spectral evolution near the 2007 periastron passage.
XB 1323−619	*Bałucińska-Church, M. et al.* (4 authors) 2009, A&A 500, 873. (2dx, 5i)
SAX J1324.4−6200	*Kaur, R. et al.* (8 authors) 2009, MNRAS 394, 1597. (1ix) Low luminosity x-ray pulsator.
SAX J1452.8−5949	*Kaur, R. et al.* (8 authors) 2009, MNRAS 394, 1597. (1ix) Low luminosity x-ray pulsator.
IGR J15094−664	*Butters, O.W. et al.* (4 authors) 2009, A&A 498, L17. (2dx, 5gi) RXTE confirmation of the IP status of the CV.
XTE J1550−564	(see V381 Nor)
IGR J16207−5129	*Tomsick, J.A. et al.* (6 authors) 2009, ApJ 694, 344. (2dx) Obscured and non-pulsating HMXB.
4U 1624−490	*Xiang, J. et al.* (5 authors) 2009, ApJ 701, 984. (1x, 2cx) AD corona and disk atmosphere.
4U 1636−53	(see V801 Ara)
RX J1643.7+3402	(see V1084 Her)
GRO J1655−40	(see V1033 Sco)
IGR J17098−3628	*Kotze, M.M., Charles, P.A., Crause, L.A.* 2009, MNRAS 395, 1579. (1ax*, 5bcg, 8a) Discovery of long-term superorbital periodicities.
XTE J1710−281	*Younes, G., Boirin, L., Sabra, B.* 2009, A&A 502, 905. (2dx, 5i) Analysis of dipping LMXB.
XTE J1739−302	*Sidoli, L. et al.* (11 authors) 2009, MNRAS 397, 1528. (1x, 5bcg) New x-ray outbursts.
CXOU J174042.0−280724	*Heinke, C.O. et al.* (4 authors) 2009, ApJ 701, 1627. (1x, 2x) Rapidly variable x-ray transients observed with Chandra.
H 1743−322	*McClintock, J.E. et al.* (7 authors) 2009, ApJ 698, 1398. (1x, 2x) Comparisons with the BH microquasar XTE J1550−564 (V381 Nor). *Sriram, K., Agrawa, V.K., Rao, A.R.* 2009 RAA 9, 901. (1x, 5i) A truncated AD.
XMMU J174445.5−295044	*Heinke, C.O. et al.* (4 authors) 2009, ApJ 701, 1627. (1x, 2x) Rapidly variable x-ray transients observed with Chandra.
Swift J1753.5−0127	*Hiemstra, B. et al.* (6 authors) 2009, MNRAS 394, 2080. (2cdx*, 5i) Broad Fe line and AD emission found in BH candidate system. *Wilkinson, T., Uttley, P.* 2009, MNRAS 397, 666. (1x, 5cgi, 8a) Accretion disc variability in the hard state.
IGR J17544−2619	*Sidoli, L. et al.* (11 authors) 2009, MNRAS 397, 1528. (1x, 5bcg) New x-ray outbursts.
SAX J1808.4−3658	(see V4580 Sgr)
XTE J1818−245	*Cadolle Bel, M. et al.* (14 authors) 2009, A&A 501, 1. (2dgrx) Spectral distribution modelling.

XTE J1859+083	*Corbet, R.H.D. et al.* (4 authors) 2009, ApJ 695, 30. (2dx) Possible 60.65 day modulation.
4U 1907+09	*Inam, S.Ç., Şahiner, Ş., Baykal, A.* 2009, MNRAS 395, 1015. (1x, 2x, 5i) Timing and spectral analysis of accretion-powered pulsar.
2MASS J19090585+4911585	*Raetz, S. et al.* (14 authors) 2009, Astron. Nachr. 330, 504. (1ao, 5abc) Analysis of VRI LCs of W UMa-type overcontact binary.
GRS 1915+105	(see V1487 Aql)
2MASS J19275370+7717418 (GSC 4588-0883)	*Dimitrov, D., Kraicheva, Z., Popov, V.* 2009, IBVS 5883. (1a, 5bcd, 6d) Short-period oscillations in Algol-type system.
1RXS J201607.0+251645	*Li, H.-L. et al.* (5 authors) 2009, RAA 9, 1035. (1ao, 5abc) CCD photometry and LC analysis.
1RXS J213344.1+510725	*Anzolin, G. et al.* (8 authors) 2009, A&A 501, 1047. (2dx) Timing and spectral analysis.
2MASS J21360128−7248272 (JL 82)	*Koen, C.* 2009, MNRAS 395, 979. (2ao) Pulsating sdB binary of PG 1716 class.
PM 21441−0024 (Wolf 940)	*Burningham, B. et al.* (21 authors) 2009, MNRAS 395, 1237. (1ai, 2bci, 5bcdeg, 8a) The discovery of an M14+T8.5 binary system.
2XMMi J225036.9+573154	*Ramsay, G. et al.* (4 authors) 2009, MNRAS 395, 416. (1ox*, 2ox*, 6b) Eclipsing x-ray emitting polar system discovered, $P = 174$ min.

Objects with other designations

CE 315	(see V396 Hya)
CS 22881-036	*Preston, G.W.* 2009, PASA 26, 372. (2a, 5d) Spectroscopic orbit of a carbon-enhanced metal-poor binary.
G 29-38	(see ZZ Psc)
GJ 3236	(see 2MASS J03371407+6910498)
GRB 06061	*Caito, L. et al.* (6 authors) 2009, A&A 498, 501. (2dg, 5gi) A “fake” short GRB from a merging binary system.
GSC 2853-0018	*Samec, R.G. et al.* (5 authors) 2009, IBVS 5901. (1a, 2b, 5abc, 6d) Photometric and spectroscopic study of W-type W UMa EB.
GSC 4293-0432	(see BD+65°1939)
GSC 4588-0883	(see 2MASS J19275370+7717418)
GX 17+2	(see NP Ser)
GX 339-4	(see V821 Ara)
JL 82	(see 2MASS J21360128−7248272)
LS 5039	(see V479 Sct)
LS I +61°303	(see V615 Cas)
M31 N 2007-11	*Henze, M. et al.* (12 authors) 2009, A&A 498, L13. (1ao, 2dx, 5g) Very short supersoft x-ray state of classical nova.
M33	*Pietsch, W. et al.* (10 authors) 2009, ApJ 694, 449. (2dx, 5be) Discovery of second high mass eclipsing x-ray binary in M33.
NGC188 V12	*Meibom, S. et al.* (9 authors) 2009, AJ 137, 5086. (1ao, 2do, 5cde) Eclipsing SB2 near cluster turnoff used to determine cluster age and distance.
Nova LMC2009/2	2009, IAU Circ. 9042 (1ac, 4a, 6b) Discovery of apparent nova.
NSV 4838	(see SDSS J102320.27+440509.8)

R 145	*Schnurr, O. et al.* (5 authors) 2009, MNRAS 395, 823. (2ao, 3, 5bd) WN6h + O binary in LMC; orbital elements and minimum masses of 119 ± 33 $M_\odot$ and 48 ± 20 $M_\odot$ derived.
SN 2003gd	Maund, J.R., Smartt, S.J. 2009, Science 324, 486. (1ai, 2di, 4bi) K-supergiant progenitor no longer present, but the B-supergiant binary companion still observed.
SS 433	(see V1343 Aql)
SS 2883	(see PSR B1259−63)
SXP7.92	*Coe, M.J. et al.* (7 authors) 2009, MNRAS 394, 2191. (1ox*) SMC x-ray binary pulsar system with coherent x-ray period of 7.9 s; suggested optical counterpart has 36.8 d orbital period.
Wolf 940	(see PM 21441−0024)
WR 19	(see 2MASS J10180498−5816263)
WR 140	(see V1687 Cyg)

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RT LMi, XY LMi, Z Lep, GCS 5337-1744, GCS 5361-545, NSV 1864, NSV 2698, NSV 7292 Lib, NSV 7481, RV Lyn, RZ Lyn, UU Lyn, BG Lyn, DY Lyn, V573 Lyr, UU Mon, BO Mon, CF Mon, EI Mon, EW Mon, GU Mon, KR Mon, V396 Mon, V448 Mon, V453 Mon, V457 Mon, V458 Mon, V463 Mon, V494 Mon, V514 Mon, V524 Mon, V714 Mon, V864 Mon, GCS 4829-2025, GCS 4839-280, GCS 5397-1850, GCS 5399-2407, SX Oph, V947 Oph, V954 Oph, V1016 Oph, V1022 Oph, V1120 Oph, GCS 398-1236, GCS 403-1109, GCS 418-2020, GCS 978-1292, GCS 979-1273, NSV 9699, NSV 24049, EG Ori, EW Ori, FF Ori, FK Ori, FZ Ori, GG Ori, V392 Ori, V530 Ori, V640 Ori, V648 Ori, V1202 Ori, V1626 Ori, V1642 Ori, GCS 127-719, GCS 702-1892, GCS 1283-53, NSV 1955, XZ Per, FW Per, IM Per, KR Per, LS Per, NP Per, V482 Per, V737 Per, GCS 5404-4206, AO Ser, AU Ser, BI Ser, V384 Ser, V385 Ser, GCS 357-162, GCS 370-665, GCS 378-1212, GCS 930-267, GCS 949-1089, GCS 1499-834, GCS 2034-1670, GCS 2038-293, GCS 5017-129, GCS 5037-866, Y Sex, WX Sex, WZ Sex, GCS 4908-1303, GCS 4911-1235, GCS 4916-292, GCS 4918-1155, RZ Tau, TY Tau, WY Tau, AH Tau, BN Tau, BV Tau, CR Tau, GQ Tau, GW Tau, V407 Tau, V1249 Tau, GCS 1841-879, GCS 1848-1264, TW UMa, TY UMa, UX UMa, UY UMa, VV UMa, XY UMa, XZ UMa, ZZ UMa, AA UMa, AC UMa, BM UMa, BS UMa, DW UMa, ES UMa, IW UMa, LO UMa, MS UMa, RU UMi, AG Vir, AW Vir, AZ Vir, BF Vir, IR Vir, PS Vir, QX Vir, V337 Vir, GCS 286-631, GCS 296-9, GCS 303-36, GCS 303-65, GCS 303-735, GCS 314-388, GCS 316-99, GCS 318-1169, GCS 329-256, GCS 329-639, GCS 330-1394, GCS 878-260, GCS 892-892, GCS 897-470, GCS 898-3, GCS 4955-767, GCS 4958-415.

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SDSS J153015.04+094946.3, SDSS J154453.60+255348.8, SDSS J154953.41+173939.0, SDSS J155720.75+180720.2, SDSS J160419.02+161548.5, SDSS J160501.35+203056.9, SDSS J160932.67 +055044.6, SDSS J161909.10+135145.5, SDSS J162718.39+120435.0. 13 previously known ones also recovered from SDSS spectra.

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IAU Commission 42

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