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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

η And	*Claret, A.* 2009, A&A 507, 377. Using binaries containing giants to constrain theories of stellar and tidal evolution.
RT And	*Manzoori, D.* 2009, AJ 138, 1917. (1ao*, 5abc) Cyclical changes of P and long-term luminosity.
V505 And	*Vida, K. et al.* (7 authors) 2009, A&A 504, 1021. (1ao, 5ce) Photospheric and chromospheric activity on M dwarf binary.
V1298 Aql (VB 10)	*Zapatero Osorio, M.R. et al.* (6 authors) 2009, A&A 505, L5. (2ai, 5d) Companion probably a planet.
V1333 Aql (Aql X-1)	*Tudose, V. et al.* (5 authors) 2009, MNRAS 400, 2111. (1aor*x*, 5cgi) A study the accretion/ejection processes.
V1343 Aql (SS 433)	*Bowler, M.G.* 2010, A&A 510, A28. (8a) Hypothesis of apsidal advance.
	Kubota, K. et al. (12 authors) 2010, PASJ 62, 323. (2dox) Jet structure from x-ray and optical spectroscopy.
	Kubota, K. et al. (7 authors) 2010, ApJ 709, 1374. (1co, 2co).
	Medvedev, A.S., Fabrika, S.N. 2009, KFNT 25 (supplement), 356. (2dx) Observation of channel in supercritical AD.
	Medvedev, A., Fabrika, S. 2010, MNRAS 402, 479. (1x*, 5cegi, 8ab) Evidences of the supercritical disc funnel radiation in x-ray spectra.
	Okuda, T., Lipunova, G.V., Molteni, D. 2009, MNRAS 398, 1668. (8abd) Jet and disk modelling at super-Eddington luminosity.
V1487 Aql (GRS 1915+105)	*Acero, F. et al.* (175 authors) 2009, A&A 508, 1135. (1g, 5j) Upper limits on γ-ray emission.
	Blum, J.L. et al. (8 authors) 2009, ApJ 706, 60. (2dx, 5k) Measured spin of BH with disk reflection.
	Deegan, P., Cobet, C., Wynn, G.A. 2009, MNRAS 400, 1337. (8aci) A study of the long term evolution of the using global SPH simulations of its accretion.
	Rushton, A. et al. (4 authors) 2010, MNRAS 401, 2611. (1rx, 4c, 5cg) A decade of high-resolution radio observations.
	Titarchuk, L., Seifina, E. 2009, ApJ 706, 1463. (2dx*r) Discovery of photon index saturation.
V1722 Aql	2009, IAU Circ. 9100 (1a, 2c, 4a, 5g, 6b) Discovery and spectral features of nova.
R Ara (HD 149730)	*Reed, P.A. et al.* (10 authors) 2010, MNRAS 401, 913. (2adu*, 5abcdegi, 8abc) Ultraviolet study: Physical parameters and evolutionary status.
V801 Ara (4U 1636−53)	*Bhattacharyya, S.* 2010, RAA, 10, 227. (1x) A pair of kHz QPOs and a plausible 1860 Hz QPO from a NS component.
V821 Ara (GX 339-4)	*Coriat, M. et al.* (7 authors) 2009, MNRAS 400, 123. (1x*, 5cgi) The infrared/x-ray correlation over four outbursts.
	Maitra, D. et al. (6 authors) 2009, MNRAS 398, 1638. (1xoir, 5ij) Modelling of jets and disk of radio through x-ray observations of x-ray binary with BH component.
	Motta, S., Belloni, T., Homan, J. 2009, MNRAS 400, 1603. (1x*, 5cgi) Changes of the broad-band x-ray spectrum across the hard to soft state transition.
	Yamada, S. et al. (10 authors) 2009, ApJ 707, L109. (2x) May not be a fast-spinning BH.

UX Ari	*Ekmekçi, F.* 2010, PASA 27, 1. (1x*, 5g) Surface activities from IUE data.
ϵ Aur	*Stefanik, R.P. et al.* (7 authors) 2010, AJ 139, 1254. (2ao, 5c) New orbit constrained by eclipse timings differs from that solely from RVs.
ψ^6 Aur	*Griffin, R.F.* 2010, Observatory 130, 17. (2a, 5d) Long-period, low-eccentricity SB1.
WW Cam	*Wolf, M. et al.* (5 authors) 2010, AJ 139, 1028. (1ao, 5ab) Detection of apsidal motion.
AO Cam	*Yang, Y.-G. et al.* (4 authors) 2010, AJ 139, 195. (1ao, 5ab) Weak contact system.
HM Cnc	*Roelofs, G.H.A. et al.* (6 authors) 2010, ApJ 711, L138. (2o, 8a) Evidence for a 5.4-minute orbital period.
SY Cnc	*Casares, J., Martínez-Pais, I.G., Rodríguez-Gil, P.* 2009, MNRAS 399, 1534. (2ao, 5bde) Orbit of donor star of CV resolved.
Z CMa	*Szeifert, T. et al.* (6 authors) 2010, A&A 509, L7. (2d, 3b) Nature of extreme outburst.
η Car	2009, IAU Circ. 9094 (2d) Brightening of central star. 2009, IAU Circ. 9103 (1a) Magnitudes of star and nebula. *Abraham, Z., Falceta-Gonçalves, D.* 2010, MNRAS 401, 687. (1x*, 5bgk, 8a) Evidence of precession and nutation. *Allen, W.H.* 2009, Southern Stars 48, 9. (6b) Suspected binary nature with an orbital period of 5.5 years. *Falceta-Gonçalves, D., Abraham, Z.* 2009, MNRAS 399, 1441. (2co*u*, 5j) H Paschen emission line profile analysis used to determine orbital inclination. *Gull, T.R.* 2009, PASP 121, 1213. (2c, 5j) λ 6307 Åemission line is blue-shifted [Si III] λ 6313 Åfrom outer wind. *Smith, N.* 2010, MNRAS 402, 145. (1ai, 5cg, 8ab) Episodic dust formation in colliding winds.
OY Car	*Woudt, P.A., Warner, B.* 2009, MNRAS 400, 835. (1abo, 5cgi) Dwarf nova oscillations (DNOs) during outburst.
V429 Car	*Gosset, E. et al.* (5 authors) 2009, A&A 508, 805. (2x, 5i) Analysis of phase-resolved x-ray observations.
V648 Car (SS73 17)	*Eze, R.N.C., Luna, G.J.M, Smith, R.K.* 2010, ApJ 709, 816. (2x) Observations of symbiotic binary.
RZ Cas	*Tkachenko, A., Lehmann, H., Mkrtichian, D.E.* 2009, A&A 504, 991. (2ab, 5bd) Algol EB with δ Scuti-type oscillations in the accretor.
CW Cas	*Jiang, T.-Y. et al.* (4 authors) 2010, PASJ 62, 457. (1ao, 5abc) LC analysis and possible light-time effect.
HT Cas	*Nucita, A.A. et al.* (8 authors) 2009, A&A 504, 973. (2dx, 5ai) X-ray eclipse of dwarf nova.
V723 Cas (Nova 1995)	*Lyke, J.E., Campbell, R.D.* 2009, AJ 138, 1090. (2cd, 5gj) Spatially resolved spectra show different structures, suggest separate ejection events.
SZ Cen	*Claret, A.* 2009, A&A 507, 377. Using binaries containing giants to constrain theories of stellar and tidal evolution.
V504 Cen	*Greiner, J. et al.* (6 authors) 2010, Astron. Nachr. 331, 227. (1aox, 2cdox, 3b) CV of VY Scl type.
V779 Cen (Cen X-3)	*Raichur, H., Paul, B.* 2010, MNRAS 401, 1532. (1x*, 5cefg) Effect of pulse profile variations on measurement of eccentricity in orbit.

WZ Cep	*Zhu, L.Y., Qian, S.B.* 2009, AJ 138, 2002. (1bo, 5abc) CB at start of contact phase.
GW Cep	*Lee, J.W. et al.* (8 authors) 2010, AJ 139, 898. (1ao, 5abc) Spotted system with possible third component.
AY Cet	*Sanz-Forcada, J., Affer, L., Micela, G.* 2009, A&A 505, 299. (2dx, 5gh) No first-ionization-potential fractionation.
Z Cha	*Dai, Z., Qian, S., Fernández L., E.* 2009, ApJ 703, 109. (1ao, 5ab) Suggest a third body brown dwarf.
BR Cir (Cir X-1)	*Soleri, P. et al.* (5 authors) 2009, MNRAS 399, 453. (1xr, 5j) Simultaneous x-ray/radio observations of jet activity of NS x-ray binary.
V691 CrA (4U 1822−371)	*Bayless, A.J. et al.* (5 authors) 2010, ApJ 709, 251. (1ax, 2ou, 5bcde)
T CrB	*Dobrotka, A. et al.* (6 authors) 2010, MNRAS 402, 2567. (1ao, 5cgi, 8a) Searching for flickering statistics.
BP Cru	*Pestalozzi, M. et al.* (4 authors) 2009, A&A 506, L21. (4cr) First detection of radio emission from the HMXB.
CD Cru	*Bhatt, H. et al.* (5 authors) 2010, MNRAS 402, 1767. (1x*, 2bcd, 5cdegh, 8a) X-ray emission characteristics.
SS Cyg	*Smak, J.* 2010, Acta Astronomica 60, 83 (5j) On the mass transfer rate.
CH Cyg	*Burmeister, M., Leedjärv, L.* 2009, A&A 504, 171. (2aco, 5i) Symbiotic binary, observations between 1996 and 2007.
	Karovska, M. et al. (6 authors) 2010, ApJ 710, L132. (1i, 2rx) Precessing jet detected in symbiotic.
	Wallerstein, G. et al. (5 authors) 2010, PASP 122, 12. (1abo, 2do, 5g) Decline in light due to circumstellar absorption; expanding gas detected spectroscopically.
CI Cyg	*Siviero, A. et al.* (13 authors) 2009, MNRAS 399, 2139. (1ao, 2c) Photometric monitoring and high-resolution spectroscopy of symbiotic system during outburst.
EM Cyg	*Halevin, A.V. et al.* (5 authors) 2010, Ap&SS 326, 133. (1ao, 5i) Determination of AD properties.
V380 Cyg	*Pavlovski, K. et al.* (6 authors) 2009, MNRAS 400, 791. (1ao*, 2ab, 5abcdegh, 8a) A photometric and spectroscopic study.
V404 Cyg	*Hynes, R.I. et al.* (7 authors) 2009, MNRAS 399, 2239. (1aroux, 2d, 5i) Study of SED of BH x-ray binary in quiescence.
	Miller-Jones, J.C.A. et al. (7 authors) 2009, ApJ 706, L230. (4bc) First accurate BH distance with VLA.
V444 Cyg	*Bhatt, H. et al.* (5 authors) 2010, MNRAS 402, 1767. (1x*, 2bcd, 5cdegh, 8a) X-ray emission characteristics.
V1341 Cyg (Cyg X-2)	*Casares, J.I. et al.* (4 authors) 2010, MNRAS 401, 2517. (2ao, 5degik) Orbital solution and rotational broadening of the donor star.
V1357 Cyg (Cyg X-1)	*Boroson, B., Vrtilek, S.D.* 2010, ApJ 710, 197. (1x) X-ray variation in high/soft state.
	Karitskaya, E.A. et al. (8 authors) 2009, KFNT 25 (supplement), 352. (8b) Magnetic field of x-ray binary Cyg X-1.
	Malzac, J., Belmont, R., Fabian, A.C. 2009, MNRAS 400, 1512. (5gi, 8a) Investigation of the energetics of the jet and x-ray corona.
	Sabatini, S. et al. (61 authors) 2010, ApJ 712, L10. (1gx, 2gx) Transient γ-ray emission.

	Sharova, O.I. et al. (7 authors) 2009, KFNT 25 (supplement), 349. (8b) Three-dimensional Doppler images of Cyg X-1.
V1521 Cyg (Cyg X-3)	*Abdo, A.A. et al.* (176 authors) 2009, Science 326, 1512. (2dg, 5i, 6c) Orbital period of HMXB detected in γ-ray emission.
	Tavani, M. et al. (70 authors) 2009, Nature 462, 620. (2dg, 5i) γ-ray flares in HMXB.
	Tudose, V., et al. (11 authors) 2010, MNRAS 401, 890. (1rx, 2c, 5cgi, 8a) Probing the behaviour with very-long-baseline radio interferometry.
	Zdziarski, A.A., Misra, R. and Gierliński, M. 2010, MNRAS 402, 767. (1x, 5cgi, 8a) A study of Compton scattering in the system.
V1727 Cyg (4U 2129+47)	*Lin, J., Nowak, M.A., Chakrabarty, D.* 2009, ApJ 706, 1069. (2dx) Further drop into quiescence.
V1827 Cyg (Cyg OB2-B17)	*Stroud, V.E. et al.* (6 authors) 2010, A&A 511, A84. (1ao, 2ac, 5e) Massive, evolved components.
V1923 Cyg (WR 145)	*Muntean, V. et al.* (4 authors) 2009, MNRAS 399, 1977. (2abc, 5de) Spectroscopic analysis of WN7+O7 V binary.
V2491 Cyg	*Page, K.L. et al.* (11 authors) 2010, MNRAS 401, 121. (1ux, 5cg, 8a) Swift observations of the x-ray and UV evolution.
	Takei, D., Ness, J.-U. 2010, Astron. Nachr. 331, 183. (1x, 5ij) Soft x-ray study of classical nova.
DM Del	*He, J.-J., Qian, S.-B.* 2010, PASJ 62, 441. (1bo*, 5bc) Period study and LC reanalysis.
HR Del (Nova 1967)	*Moraes, M., Diaz, M.* 2009, AJ 138, 1541. (2cd, 5gj) Spatially resolved spectra show structure, kinematics and chemical composition of shell.
SX Dra	*Dimitrov, D. et al.* (4 authors) 2010, IBVS 5925. (1a, 5bcg, 6d) Short-period oscillations.
AG Dra	*Shore, S.N. et al.* (9 authors) 2010, A&A 510, A70. (2cou, 5j) Study of spectroscopic evolution.
	Skopal, A. et al. (4 authors) 2009, A&A 507, 1531. (2doux, 5gi) Origin of supersoft x-ray-optical/UV flux anticorrelation in symbiotic binary.
AI Dra	*Zasche, P., Uhlář, R., Svoboda, P.* 2010, Ap&SS 326, 119. (1abd, 5b) EB with two unseen companions.
KT Eri	2009, IAU Circ. 9098 (1ad, 2c, 4a, 6b) Discovery and designation of nova.
KQ Gem	*Zhang, L.-Y.* 2010, PASP 122, 309. (1ao, 5abc) Marginal contact binary with large temperature difference.
OU Gem	*Mishenina, T.V. et al.* (5 authors) 2009, KFNT 25 (supplement), 333. (1a, 2a) Investigation of active stars: OU Gem.
AM Her	*Kafka, S., Hoard, D.M.* 2009, PASP 121, 1352. (1bdo*) Unusual high-state behaviour in AAVSO data.
HZ Her	*Klochkov, D. et al.* (5 authors) 2009, A&A 506, 1261. (2dx*, 5i) Pulse-period variations in LMXB.
LV Her	*Torres, G. Lacy, C.H.S., Claret, A.* 2009, AJ 138, 1622. (1ao, 2a, 5abcde) Precise masses and radii permit age estimates by comparison with theory.
V861 Her	*Antipin, S.V., Berdnikov, L.N., Sokolovsky, K.V.* 2009, IBVS No. 5913. (1a, 5ab) Period changes in EB.
EX Hya	*Luna, G.J.M. et al.* (7 authors) 2010, ApJ 711, 1333. (2x) Photoionized features in x-ray spectrum.

VW Hyi	*Woudt, P.A. et al.* (7 authors) 2010, MNRAS 401, 500. (1ao, 5bcgi) Dwarf nova oscillations and QPOs.
UV Leo	*Heckert, P.A.* 2009, IBVS No. 5912. (1a, 5c) Spots on the surface.
DP Leo	*Qian, S.-B. et al.* (4 authors) 2010, ApJ 708, L66. (1a, 5a) 6.39 $M_{Jupiter}$ planet predicted from O-C diagram of eclipsing polar.
FM Leo	*Ratajczak, M. et al.* (12 authors) 2010, MNRAS 402, 2424. (1ao, 2a, 5abcdeg, 8c) Orbital and stellar parameters.
GW Lib	*Byckling, K. et al.* (8 authors) 2009, MNRAS 399, 1576. (1ao*ux, 5i) Multifrequency observations of dwarf nova outburst.
DZ Lyn	*Martignoni, M., Acerbi, F., Barani, C.* 2009, RAA 9, 1270. (1ao, 5ce) An A-subtype W UMa-system in poor thermal contact derived from the analysis of BVRC LCs.
β Lyr	*Skulsky, M.Yu., Kos, E.S.* 2009, KFNT 25 (supplement), 300. (5bi) Investigations of the spectrum of β Lyrae. The retrospective and perspective view.
UX Mon	*Olson, E.C., Henry, G.W., Etzel, P.B.* 2009, AJ 138, 1435. (1bo, 5c) Variable LC ascribed to frequent mass-transfer events.
AU Mon	*Desmer, M. et al.* (18 authors) 2010, MNRAS 401, 418. (1ao, 2ao, 5abcdeg, 8a) CoRoT photometry and high-resolution spectroscopy.
V582 Mon (KH 15D)	*Lawler, S.M. et al.* (8 authors) 2010, ApJ 711, 1297. (2o, 5i).
V616 Mon (AO 0620−00)	*Cantrell, A.G. et al.* (9 authors) 2010, ApJ 710, 1127. (1x*) The inclination of soft x-ray transient and the mass of its BH.
V694 Mon (MWC 560)	*Zamanov, R.K. et al.* (4 authors) 2010, Astron. Nachr. 331, 282. (2ao, 5k) Rotational velocity of red giant component and orbital eccentricity of symbiotic system derived.
QV Nor (4U 1538−52)	*Rodes-Roca, J.J. et al.* (6 authors) 2009, A&A 508, 395. (2x, 2c) Detection of the first cyclotron harmonic.
RS Oph	*Banerjee, D.P.K., Das, R.K., Ashok, N.M.* 2009, MNRAS 399, 357. (1i, 2i) Near-IR photometry and spectroscopy of 2006 outburst of recurrent nova.
	Iijima, T. 2009, A&A 505, 287. (2cdo, 5i) Recurrent nova during 2006 outburst.
	Ribeiro, V.A.R.M. et al. (19 authors) 2009, ApJ 703, 1955. (1ao, 2do, 6j) Models the expanding nebular remnant.
	Rushton, M.T. et al. (11 authors) 2010, MNRAS 401, 99. (1ao*, 2bci, 5deg, 8a) Changes in the red giant and dusty environment.
V1032 Oph	*Wils, P., Henden, A.A.* 2009, IBVS No. 5914. (1a) New dwarf nova.
V2291 Oph	*Claret, A.* 2009, A&A 507, 377. Using binaries containing giants to constrain theories of stellar and tidal evolution.
V2487 Oph (Nova 1998)	*Pagnotta, A. et al.* (5 authors) 2009, AJ 138, 1230. (1c*) Discovery of eruption in 1900 on Harvard plates - a new recurrent nova.
V2673 Oph	2010, IAU Circ. 9111 (1a, 2c, 4a, 6b) Discovery of classical nova.
V2674 Oph	2010, IAU Circ. 9119 (1a, 2c, 4a, 5g, 6b) Discovery of classical nova.
EW Ori	*Clausen, J.V. et al.* (4 authors) 2010, A&A 511, A22. (1ao, 2a, 5ef) Accurate absolute dimensions.
V380 Ori	*Alecian, E. et al.* (10 authors) 2009, MNRAS 400, 354. (2ac, 3b, 5abcdegi) Magnetism and binarity detected.

V1055 Ori (4U 0614+091)	*Boutelier, M., Barret, D., Coleman Miller, M.* 2009, MNRAS 399, 1901. (1x*, 5i) QPO analysis of LMXB.
	Migliari, S. et al. (9 authors) 2010, ApJ 710, 2010. (2rx) Complete spectrum.
34 Peg	*Griffin, R.F.* 2010, Observatory 130, 17. (2a, 5d) SB1.
85 Peg	*Huber, D. et al.* (15 authors) 2009, A&A 505, 715. (1ao) A search for p-modes and other variability in the multiple system. Binarity of 85 Peg B discussed.
BX Peg	*Lee, J.W. et al.* (4 authors) 2009, PASP 121, 1366. (1ao, 5abc) Spotted WUMa system with possible third and fourth components.
IP Peg	*Copperwheat, C.M. et al.* (7 authors) 2010, MNRAS 402, 824. (1ao, 5abcdeg, 8a) An eclipsing dwarf nova with an unusually cool WD.
β Per	*Peterson, W.M. et al.* (4 authors) 2010, Nature 463, 207. (4cr) Coronal loop in Algol.
GK Per (Nova 1901)	*Evans, P.A. et al.* (4 authors) 2009, MNRAS 399, 1167. (1ao*ux, 5i) Multifrequency LC during unusual 2006 outburst.
V432 Per	*Odell, A.P., Eaton, J.A., López-Cruz, O.* 2009, MNRAS 400, 2085. (1ao,2a, 5abcdeg, 8ac) Physical parameters and evolutionary status.
AE Phe	*He, J.-J. et al.* (4 authors) 2009, AJ 138, 1465. (1ao, 5abc) Contact binary undergoing thermal relaxation oscillations.
AR Psc	*Sanz-Forcada, J., Affer, L., Micela, G.* 2009, A&A 505, 299. (2dx, 5gh) No first-ionization-potential fractionation.
V445 Pup	*Woudt, P.A. et al.* (11 authors) 2009, ApJ 706, 738. (1ai, 2di, 5j) Found expanding and narrowly confined bipolar shell.
V598 Pup	*Page, K.L. et al.* (9 authors) 2009, A&A 507, 923. (2dux, 5i) Nova, post-outburst.
T Pyx	*Schaefer, B.E. et al.* (3 authors) 2010, ApJ 708, 381. (1a) Evolution of the nova shell.
UU Sge	*Wawrzyn, A.C. et al.* (5 authors) 2009, A&A 505, 227. (5g) Modelling of pre-CV spectra of irradiated secondary.
V3885 Sgr	*Linnell, A.P. et al.* (6 authors) 2009, ApJ 703, 1839. (2du, 5cde) Comparison with a range of AD models.
V4580 Sgr (SAX J1808.4−3658)	*Ibragimov, A., Poutanen, J.* 2009, MNRAS 400, 492. (1x, 2dx, 5ceg, 8a) Evidence for a receding disc.
V4634 Sgr (GS 1826−238)	*Cocchi, M. et al.* (4 authors) 2010, A&A 509, A2. (2x) Wide band observations of x-ray burster.
V5116 Sgr	*Sala, G. et al.* (4 authors) 2010, Astron. Nachr. 331, 201. (1x, 2cdx) Classical nova turned into a supersoft x-ray source after outburst.
V5584 Sgr	2009, IAU Circ. 9089 (1a, 2c, 4a, 6b) Discovery and designation of nova.
	2010, IAU Circ. 9118 (2ci, 5g) Dust formation detected.
V5585 Sgr	2010, IAU Circ. 9112 (1a, 2c, 4a, 6b) Discovery of FeII-class nova.
β Sco	*Catanzaro, G.* 2010, A&A 509, A21. (2ad) Study of the CB components in multiple system.
μ^1 Sco	*van Antwerpen, C., Moon, T.* 2010, MNRAS 401, 2059. (1ao, 2au, 5abcdeg, 8a) Physical parameters and modelling.
T Sco (Nova 1860)	*Dieball, A. et al.* (5 authors) 2010, ApJ 710, 332. (1u) Recovery of nova 1860 and study of blue stragglers in M80.
U Sco	2010, IAU Circ. 9111 (1ad) New outburst of recurrent nova.

V893 Sco	*Mukai. K., Zietsman, E., Still, M.* (3 authors) 2009, ApJ 707, 652. (1ao, 2dx) Discovery of partial x-ray eclipse.
V1101 Sco (GX 349+2)	*Iaria, R. et al.* (7 authors) 2009, A&A 505, 1143. (2cdx, 5gi) An ionized reflecting skin above the AD.
V1280 Sco	*Sadakane, K. et al.* (5 authors) 2010, PASJ 62, L5. (2cdo) Discovery of multiple high-velocity narrow Na I D absorption lines.
V1310 Sco	2010, IAU Circ. 9120 (1a, 2c, 4a, 6b) Discovery and designation of nova.
VY Scl	*Greiner, J. et al.* (6 authors) 2010, Astron. Nachr. 331, 227. (1aox) Optical and x-ray observations during low state.
V479 Sct (LS 5039)	*Cerutti, B., Dubus, G., Henri, G.* 2009, A&A 507, 1217. One-dimensional pair cascade emission in γ-ray HMXB.
V496 Sct	2009, IAU Circ. 9093 (1a, 2c, 4a, 6b) Discovery and designation of FeII class nova. 2009, IAU Circ. 9095 (1d) Estimated magnitudes. 2009, IAU Circ. 9097 (1d) Visual magnitudes. 2009, IAU Circ. 9099 (2c, 5g) Dust formation predicted. 2010, IAU Circ. 9118 (2ci,5g) Dust formation confirmed.
NN Ser	*Parsons, S.G. et al.* (7 authors) 2010, MNRAS 402, 2591. (1ao, 2cd, 5cdegi, 8a) precise system parameters.
ζ Tau	*Ruždjak, D. et al.* (15 authors) 2009, A&A 506, 1319. (1*, 2*, 4c*) Long-term and orbital changes.
WY Tau	*Yang, Y.-G.* 2009, PASJ 61, 1211. (1ao, 5abc) VR LCs and their solution.
AH Tau	*Yang, Y.-G. et al.* (4 authors) 2010, AJ 139, 195. (1ao, 5abc) Weak contact system.
V1130 Tau	*Clausen, J.V. et al.* (4 authors) 2010, A&A 510, A91. (1ao, 2a, 5eh) High-accuracy physical parameters.
VZ Tri	*Yang, Y.-G.* 2010, Ap&SS 326, 125. (1ao, 5bc).
SU UMa	*Collins, D.J., Wheatley, P.J.* 2010, MNRAS 402, 1816. (1x, 5cgi, 8a) X-ray observations of SU UMa throughout six outbursts.
BZ UMa	*Price, A. et al.* (21 authors) 2009, PASP 121, 1205. (1ao, 3a) SU-UMa type dwarf nova, not IP.
EK UMa	*Beuermann, K. et al.* (7 authors) 2009, A&A 507, 385. (1ao, 2dx*u*, 5b) Long-term optical and x-ray ephemeris of the polar.
KV UMa (XTE J1118+480)	*Maitra, D. et al.* (6 authors) 2009, MNRAS 398, 1638. (1xoir, 5ij) Modelling of jets and disk of radio through x-ray observations of x-ray binary with BH component. *Calvelo, D.E. et al.* (7 authors) 2009, MNRAS 399, 539. (2o, 5j) Doppler tomography of x-ray nova reveals mass transfer stream and hot spot.
PX Vir (HD 113449)	*Cusano, F. et al.* (4 authors) 2010, RMxAC 38, 34. (5c, 10a)
QS Vir	*Ribeiro, T. et al.* (4 authors) 2010, AJ 139, 1106. (1ai, 2do) Detection of activity on M component of dM + WD binary.
UY Vol (EXO 0748−676)	*Bassa, C.G. et al.* (4 authors) 2009, MNRAS 399, 2055. (1xo, 2ac) Optical spectroscopy of NS x-ray binary companion. *Galloway, D.K. et al.* (4 authors) 2010, ApJ 711. L148. (2x) Discovery of 552-Hz oscillation in LMXB.

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

HR 3222	*Griffin, R.E.M., Griffin, R.F.* 2010, MNRAS 402, 1675. (2abc, 5abdeg, 8c) A model derived from spectroscopy and photometry.
HD 1	*Landolt, A.U.* 2010, Observatory 130, 33. (1bo) UBV photometry indicates large reddening.
HD 15137	*McSwain, M.V. et al.* (9 authors) 2010, AJ 139, 857. (2ao, 2dx, 5d) New orbit, but origin of runaway velocity unknown, since companion undetected.
HD 48099	*Mahy, L. et al.* (8 authors) 2010, ApJ 708, 1537. (2a, 5bde)
HD 50747	*Dolez, N. et al.* (16 authors) 2009, A&A 506, 159. (1ao, 2ao, 5d, 6b) Triple system.
HD 51106	*Dolez, N. et al.* (16 authors) 2009, A&A 506, 159. (1ao, 2ao, 5d, 6b) Double-lined SB and ellipsoidal variable.
HD 87643	*Millour, F. et al.* (22 authors) 2009, A&A 507, 317. (1ao, 4ci, 6b) A binary engine fuelling the star's complex circumstellar environment.
HD 108642	*Stütz, C.* 2009, A&A 505, 1233. (5g) Modelling convection in A star atmospheres: bisectors and line shapes in SB.
HD 113449	(see PX Vir)
HD 143418	*Zverko, J. et al.* (8 authors) 2009, A&A 506, 845. (2c, 5hk) Double-lined SB with possibly a chemically peculiar primary and sub-synchronous rotation.
HD 149730	(see R Ara)
HD 174884	*Maceroni, C. et al.* (15 authors) 2009, A&A 508, 1375. (1ao, 2a, 5e) Strongly eccentric, short-period early-type binary.
HD 186753	*Bentley, S.J. et al.* (13 authors) 2009, A&A 508, 391. (1a, 2a, 5dk, 6b) M-dwarf and Am type components.
HD 188753	*Mazeh, T. et al.* (7 authors) 2009, MNRAS 399, 906. (7d) TRIMOR – 3D correlation technique to analyze spectra of triple systems; parameters of SB2 system and faint third body determined.
BD +66°1663	*Volkov, I.M., Volkova, N.S., Chochol, D.* 2010, A. Rep. 54, 418. (1b, 5cd) Physical parameters and orbit of the EB BD +66°1663 = GSC 4479 412.
BD+53°2790 (4U 2206+54) (GSC 3973-0812)	*Bugno, J.L., Hintz, E.G., Joner, M.D.* 2009, IBVS No. 5911. (1a, 5b) Optical LC of the HMXB. *Finger, M.H. et al.* (4 authors) 2010, ApJ 709, 1249. (1x, 2aex) Spin down of a long-period HMXB. *Wang, W.* 2009, MNRAS 398, 1428. (1g) Evidence for magnetic NS in HMXB from γ-ray monitoring.
SAO 167450	*Fekel, F.C., Willmarth, D.W.* 2009, PASP 121, 1359. (2ao, 5d) Visual companion to AA Cet is SB2.

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)
LMC X-1	(see 2MASS J05393883−6944356)
LMC X-2	(see 4U 0520−72)
M33 X-8	*Weng, S.-S. et al.* (4 authors) 2009, PASJ 61, 1287. (2dx) Spectral analysis of XMM data.
SMC X-1	(see 2MASS J01170514−7326360)
X Sgr X-4	(see 4U 1820−30)

Objects with names including RA and DEC

2MASS J01170514−7326360 (SMC X-1)	*Raichur, H., Paul, B.* 2010, MNRAS 401, 1532. (1x*, 5cefg) Effect of pulse profile variations on measurement of eccentricity in orbit.
2MASS J01582387+2521196 (NSVS 06507557)	*Çakirli, Ó., Ibanoğlu, C.* 2010, MNRAS 401, 1141. (1ao*, 2abc, 5abcdeg, 8a) Physical parameters and evolutionary status.
CSS081007:030559+054715	*Beardmore, A.P. et al.* (9 authors) 2010, Astron. Nachr. 331, 156. (1ux, 2ac) 270 day UV and soft x-ray monitoring of supersoft x-ray source give 1.77 day period and 50 day modulation.
2MASS J03451680+1748091 (NLTT 11748)	*Kawka, A., Vennes, S.* 2009, A&A 506, L25. (1aui, 2o, 5eg, 6b) A new extremely low-mass WD with a possible companion.
2MASS J05084679+3202085 (GSC 2393-0680)	*Liu, L. et al.* (5 authors) 2010, PASJ 62, 81. (1ao, 5abc) RI LCs and their solution.
4U 0520−72 (LMC X-2)	*Agrawal, V.K., Misra, R.* 2009, MNRAS 398, 1352. (1x, 2dx, 5i) Suzaku and RXTE observations of LMXB.
2MASS J05393883−6944356 (LMC X-1)	*Hanke, M. et al.* (5 authors) 2010, A&A 509, L8. (2x*) Phase-dependent neutral absorption.
OT J055717+683226	*Uemura, M. et al.* (23 authors) 2010, PASJ 62, 81. (1aio) An SU UMa-type dwarf nova with a very short superhump period.
XMMSL1 J060636.2−694933	*Read, A.M. et al.* (10 authors) 2009, A&A 506, 1309. (2doix) Classical nova in the LMC.
4U 0614+091	(see V1055 Ori)
AO 0620−00	(see V616 Mon)
HESS J0632+057	*Skilton, J.L. et al.* (12 authors) 2009, MNRAS 399, 317. (1r) Radio counterpart of γ-ray/x-ray source associated with Be star MWC 148 found.
SAX J0635+0533	*Mereghetti, S., La Palombara, N.* 2009, A&A 504, 181. (2dx,5i, 6c) NS-Be HMXB.
2MASS J06502908−3436177 (TYC 7096-222-1)	*Bentley, S.J. et al.* (13 authors) 2009, A&A 508, 391. (1a, 2a, 5dk, 6b) M-dwarf and Am type components.
EXO 0748−676	(see UY Vol)
SDSS J100658.40+233724.4	*Southworth, J. et al.* (7 authors) 2009, A&A 507, 929. (1ao, 2do, 5bcde) EB CV.
SDSS J102347.6+003841	*Wang, Z. et al.* (7 authors) 2009, ApJ 703, 2017. (2cdo, 5i) System likely in transition from XRB to recycled radio pulsar.
RX J1037.5−5647	*La Palombara, N. et al.* (5 authors) 2009, A&A 505, 947. (2dx, 5gi) Be/NS HMXB in a low luminosity state.

2MASS J10504628−6028412 (LSS 1964, WR 29)	*Gamen, R.C. et al.* (4 authors) 2009, A&A 506, 1269. (1ao, 2ao, 5e) Massive WR binary.
XTE J1118+480	(see KV UMa)
SBSS 1150+599 (PN G 135.9+55.9)	*Stasińska, G. et al.* (9 authors) 2010, A&A 511, A44. (2cioux) Oxygen-deficient planetary nebula with binary core.
1ES 1210−646	*Masetti, N. et al.* (9 authors) 2010, A&A 511, A48. (2x, 5i) Weak magnetic field NS accretor.
SDSS J123813.73−033933.0	*Aviles, A. et al.* (14 authors) 2010, ApJ 711, 389. (1i, 2o) CV beyond period minimum, Doppler tomography.
EC 12477−1738	*Tappert, C. et al.* (7 authors) 2009, A&A 504, 491. (1ao, 2ao, 5bcd) Pre-CV in the Edinburgh-Cape blue object survey.
PSR B1259−63 (SS 2883)	*Aharonian, F. et al.* (167 authors) 2009, A&A 507, 389. (2dg, 5i) Pulsar-Be star binary around 2007 periastron passage.
PG 1323−086A	*Clem, J.L., Landolt, A.U.* 2010, PASP 122, 27. (1ao, 5abc, 6b) Known variable shown to be EB.
EC 13349−3237	*Tappert, C. et al.* (7 authors) 2009, A&A 504, 491. (1ao, 2ao, 5bcd) Pre-CV in the Edinburgh-Cape blue object survey.
EC 14329−1625	*Tappert, C. et al.* (7 authors) 2009, A&A 504, 491. (1ao, 2ao, 5bcd) Pre-CV in the Edinburgh-Cape blue object survey.
4U 1538−52	(see QV Nor)
1E 161348−5055	*Bhadkamkar, H., Ghosh, P.* 2009, A&A 506, 1297. (2dx*, 5i) Young pre-LMXB in the propeller phase.
IGR J16318−4848	*Barragán, L. et al.* (7 authors) 2009, A&A 508, 1275. (2x, 2c) Short scale variability. *Jain, C., Paul, B., Dutta, A.* 2009, RAA 9, 1303. (1x*, 5ab) Orbital x-ray modulation study.
4U 1636−536	(see V801 Ara)
OAO 1657−415	*Mason, A.B. et al.* (5 authors) 2009, A&A 505, 281. (2bi, 5g) Spectral classification of HMXB.
4U 1705−44	*Di Salvo, T. et al.* (12 authors) 2009, MNRAS 398, 2022. (2cdx, 5i) Analysis of relativistically smeared highly ionized iron emission lines from inner AD.
1RXS J171824.2−402934	*in't Zand, J.J.M. et al.* (5 authors) 2009, A&A 506, 857. (2dx, 5i) LMXB with the lowest mass accretion rate.
IGR J17191−2821	*Altamirano, D. et al.* (9 authors) 2010, MNRAS 401, 223. (1x, 5bcgi) Type I x-ray bursts, burst oscillations and kHz QPOs.
EXO 1722−363	*Mason, A.B. et al.* (5 authors) 2009, A&A 505, 281. (2bi, 5g) Spectral classification of HMXB. *Mason, A.B. et al.* (5 authors) 2010, A&A 509, A79. (2ai, 5d) Preliminary mass determination of HMXB.
PSR J1740−5340	*Bogdanov, S. et al.* (6 authors) 2010, ApJ 709, 241. (1x, 2x) ms-Pulsar in NGC 6397. *Huang, R.H.H., Becker, W.* 2010, A&A 510, A67. (2x*) No x-ray eclipse.
CXOGC J174536.1−285638	*Clark, J.S., Crowther, P.A., Mikles, V.J.* 2009, A&A 507, 1567. (2di) Galactic centre x-ray source may be a binary.
IGR J17511−3057	*Bozzo, E. et al.* (6 authors) 2010, A&A 509, L3. (2x, 6b) Outburst monitoring of new millisecond pulsar.

Swift J1753.5−0127	*Hynes, R.I. et al.* (4 authors) 2009, MNRAS 399, 281. (1aoix*, 5ci) Simultaneous x-ray/optical observations during outburst of BH candidate system.
PSR J1802−2124	*Ferdman, R.D. et al.* (17 authors) 2010, ApJ 711, 764. (1r, 5e) Precise mass of intermediate-mass pulsar.
IGR J18027−2016	*Jain, C., Paul, B., Dutta, A.* 2009, RAA 9, 1303. (1x*, 5ab) Orbital x-ray modulation study.
SAX J1808.4−3658	(see V4580 Sgr)
SAX J1818.6−1703	*Sidoli, L. et al.* (10 authors) 2009, MNRAS 400, 258. (1x, 5bcg) The first broad-band x-ray study during outburst.
4U 1820−30 (X Sgr X-4)	*Zhongxiang, W., Chakrabarty, D.* 2010, ApJ 712, 653. (2u) Discovery of 693.5 s oscillation in XRB.
4U 1822−371	(see V691 CrA)
GS 1826−238	(see V4634 Sgr)
IGR J18483−0311	*Jain, C., Paul, B., Dutta, A.* 2009, RAA 9, 1303. (1x*, 5ab) Orbital x-ray modulation study. *Romano, P. et al.* (12 authors) 2010, MNRAS 401, 1564. (1x, 5cegi) The first complete monitoring of the x-ray activity along an entire orbital period.
4U 1901+03	*Lei, Y-J.* 2009, ApJ 707, 1016. (1x, 2x) Outburst observations of HMXB.
4U 1907+09	*Rivers, E. et al.* (10 authors) 2010, ApJ 709, 179. (1x, 2x).
IPHAS J190832.31+051226.6	*Corradi, R.L.M. et al.* (10 authors) 2010, A&A 509, L9. (1ao, 2cio) Ongoing outburst of a new symbiotic star.
GRS 1915+105	(see V1487 Aql)
IGR J19294+1816	*Rodriguez, J. et al.* (7authors) 2009, A&A 508, 889. (2xg, 6c) Study of the source nature.
RAT J1953+1859	*Ramsay, G. et al.* (10 authors) 2009, MNRAS 398, 1333. (1ao, 2ao, 5i, 6b) Discovery of SU UMa-type dwarf nova through QPOs in quiescence.
4U 1957+11	*Russell, D.M. et al.* (6 authors) 2010, MNRAS 402, 2671. (1aox, 5bcgi, 6c, 8a) A long-term optical/x-ray correlation.
2MASS J20271727+3756268 (GSC 3152-1202)	*Kozyreva, V.S., Kusakin, A.V., Bagaev, L.A.* 2009, IBVS No. 5909. (1a, 5abcf) New eccentric EB.
IRAS 20349+4010 (WR 147)	*Zhekov, S.A., Park, S.* 2010, ApJ 709, L119. (1x, 2x) Double x-ray source revealed.
SDSS J210014.12+004446.0	*Olech, A., Rutkowski, A., Schwarzenberg-Czerny, A.* 2009, MNRAS 399, 465. (1ao, 5i) Outbursts of SU UMa-type dwarf nova.
SAX J2103.5+4545	*Kızıloğlu, Ü. et al.* (4 authors) 2009, A&A 508, 895. (1aox, 2c) Study of optical and x-ray outbursts of HMXB. *Reig, P. et al.* (4 authors) 2010, MNRAS 401, 55. (1x, 2d, 5cdegi) Correlated optical/x-ray variability.
4U 2129+47	(see V1727 Cyg)
2MASS J22022778+4218030 (USNO-B1.0 1323-0548678)	*Capezzali, D., Carosati, D., Fiorucci, M.* 2009, IBVS 5908. (1a, 5bc) Photometric analysis.
4U 2206+54	(see BD +53°2790)

LSPM J2236+2232 (LP 400-22)	*Vennes, S. et al.* (4 authors) 2009, A&A 507, 1613. (2ao, 5bdeg) Double degenerate.

Objects with other designations

Cyg OB2-B17	(see V1827 Cyg)
GRB 080913	*Pérez-Ramírez, D. et al.* (18 authors) 2010, A&A 510, A105. (1ai, 2x, 5j) Likely composed of a NS and BH.
GSC 2393-0680	(see 2MASS J05084679+3202085)
GSC 3152-1202	(see 2MASS J20271727+3756268)
GSC 3973-0812	(see BD+53°2790)
GX 339-4	(see V821 Ara)
GX 349+2	(see V1101 Sco)
Herschel 36	*Arias, J.I. et al.* (10 authors) 2010, ApJ 710, L30. (2o, 5kd) O-type star has a 1.54d-period B-type companion.
KH 15D	(see V582 Mon)
LP 400-22	(see LSPM J2236+2232)
LS 5039	(see V479 Sct)
LSS 1964	(see 2MASS J10504628−6028412)
M31N 2007-12b	*Bode, M.F. et al.* (7 authors) 2009, ApJ 704, 1056. (1ao, 2dax) Suggest this is a nova progenitor rather than a recurrent nova.
MWC 560	(see V694 Mon)
NGC 2204 S892	*Rozyczka, M. et al.* (7 authors) 2009, Acta Astronomica 59, 385. (1a, 2a, 5abcd) New lower main sequence EB.
NGC 6752 V8	*Kaluzny, J. et al.* (4 authors) 2009, Acta Astronomica 59, 371. (1a, 5bc) Unusual eclipsing blue straggler.
NLTT 11748	(see 2MASS J03451680+1748091)
NSVS 06507557	(see 2MASS J01582387+2521196)
PN G 135.9+55.9	(see SBSS 1150+599)
SN 2003hv	*Leloudas, G. et al.* (22 authors) 2009, A&A 505, 265. (2doi) Type Ia out to very late phases.
SS 433	(see V1343 Aql)
SS 2883	(see PSR B1259−63)
SS73 17	(see V648 Car)
47 Tuc V69	*Thompson, I.B. et al.* (7 authors) 2010, AJ 139, 329. (1ao, 2ao, 5cde) Precise masses and radii for Population II stars; distance and age determined.
TYC 7096-222-1	(see 2MASS J06502908−3436177)
USNO-B1.0 1323-0548678	(see 2MASS J22022778+4218030)
VB 10	(see V1298 Aql)
WR 22	(see V429 Car)
WR 29	(see 2MASS J10504628−6028412)
WR 145	(see V1923 Cyg)
WR 147	(see IRAS 20349+4010)

General

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Editor-in-Chief: C.D. Scarfe

Department of Physics and Astronomy
University of Victoria
Victoria, B.C., V8W 3P6, Canada

Phone: +01 250 472 5345
Fax: +01 250 721-7715
scarfe@uvic.ca