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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

ζ And	*Korhonen, H. et al.* (6 authors) 2010, A&A 515, A14. (1ao, 2du, 4co, 5e)
66 And	*Fekel, F.C., Tomkin, J., Williamson, M.H.* 2010, AJ 139, 1579. (2ao, 5d) Components rotate more slowly than pseudo-synchronously.
Z And	*Isogai, M. et al.* (5 authors) 2010, AJ 140, 235. (3bo) Polarization yields estimates of i and Ω of orbit.
CO And	*Lacy, C.H.S. et al.* (6 authors) 2010, AJ 139, 2347. (1ao, 2d, 5abcde) Third component revealed by both light-time efect and third light.
PX And	*Thomas, N.L. et al.* (7 authors) 2010, A&A 514, A30. (1ao, 5bc) SuperWASP long-timescale photometry of CV.
EE Aqr	*Wronka, M.D. et al.* (4 authors) 2010, AJ 139, 1486. (1bo*, 2a*, 5bcde) Distance estimates obtained.
V1343 Aql (SS 433)	*Bowler, M.G.* 2010, A&A 516, A24. (2c, 5i) Accretion disk revealed in Hα.
V1487 Aql (GRS 1915+105)	*Massaro, E. et al.* (8 authors) 2010, A&A 513, A21. (2dx, 5i) LMXB timing analysis.
V1722 Aql	*Munari, U. et al.* (5 authors) 2010, PASP 122, 670. (1ao, 5cg) Spot-model interpretation of multi-wavelength photometry.
V1723 Aql	2010, IAU Circ. 9167 (1a, 2c, 4a, 6b) Discovery of FeII-type nova. 2010, IAU Circ. 9168 (2c) Designation and spectral features.
AE Ara	*Fekel, F.C. et al.* (4 authors) 2010, AJ 139, 1315. (2ai, 5d) Symbiotic star without pulsation period. H-emission lines give mass ratio.
V821 Ara (GX 339-4)	*Droulans, R. et al.* (4 authors) 2010, ApJ 717, 1022. (1gx, 2gx) Spectral modelling. *Kolehmainen, M., Done, C.* 2010, MNRAS 406, 2206. (2x, 5cegi, 8a) Limits on spin determination from disc spectral fitting. *Vila, G.S., Romero, G.E.* 2010, MNRAS 403, 1457. (1r*x*, 8abd) Modelling non-thermal emission of microquasar. *Wu, Y.X. et al.* (5 authors) 2010, A&A 512, A32. (2dx*, 5i) The relation of hard x-ray peak flux and outburst waiting time in the LMXB.
ϵ Aur	*Chadima et al.* (12 authors) 2010, IBVS No. 5937. (1b, 2a, 5abc) New ephemeris and orbital solution. *Kloppenborg, B. et al.* (17 authors) 2010, Nature 464, 870. (4ci) Imaging of 1the transiting disk. *Guinan, E.* 2010, Nature 464, 842. Shrouded in a dusty disk. *Wolk, S.J. et al.* (4 authors) 2010, AJ 140, 595. (1x) XMM-Newton detects no x-rays from system, puts constraints on models.
CL Aur	*Lee, J.W. et al.* (6 authors) 2010, AJ 139, 2669. (1ao, 5abceg) Possible spots, mass transfer, and light-time effect from third body.
V417 Aur	*Fernandez, M.A., Williamson, C.O., Beaky, M.M.* 2010, IBVS No. 5948. (1a, 5c) Oscillating component in EB.
YY Boo	*Hambsch, F.-J. et al.* (7 authors) 2010, IBVS No. 5949. (1a, 5c) Rapidly pulsating component in EB.
AW Cam	*Frey, J.R., Angione, R.J., Sievers, J.R.* 2010, IBVS No. 5946. (1a, 2a, 5c) Photometric and spectroscopic study.
BQ Cam (V 0332+53)	*Raichur, H., Paul, B.* 2010, MNRAS 406, 2663. (1x, 5abce) New orbital parameters.

LR Cam	*Yang, Y.-G., Dai, H.-F.* 2010, PASJ 62, 1045. (1ao, 5abce) A photometric analysis of new BVR LCs.
Z CMa	*Whelan, C. et al.* (14 authors) 2010, ApJ 720, L119. (2i) Twin jets detected.
LT CMa	*Bakiş, V. et al.* (6 authors) 2010, PASJ 62, 1291. (1ao*, 2ao, 5cdef) Absolute dimensions and apsidal motion.
η Car	*Geoh, J.H. et al.* (5 authors) 2010, ApJ 716, L223. (4ci) Primary is a fast rotator at near critical velocity. *Landes, H., Fitzgerald, M.* 2010, PASA 27, 374. (1ao) A suspected binary system concealed within the homunculus nebula. *Martin, J.C. et al.* (4 authors) 2010, AJ 139, 2056. (1aou, 2do, 5gj) Recent changes observed by HST attributed to wind variations. *Richardson, N.D. et al.* (5 authors) 2010, AJ 139, 1534. (2do, 5j) Changes in Hα profile near periastron consistent with wind-wind interaction.
BS Cas	*He, J.-J. et al.* (4 authors) 2010, RAA 10, 569. (1ao, 5abcj) W UMa-nature from a LC analysis.
V615 Cas (LS I +61°303)	*Massi, M., Zimmermann, L.* 2010, A&A 515, A82. (5i) Lense-Thirring precession in the HMXB. *Rea, N. et al.* (6 authors) 2010, MNRAS 405, 2206. (1x, 5cg) Study of x-ray emission. *Torres, D.F. et al.* (6 authors) 2010, ApJ 719, L104. (1x, 2x) Variability in orbital profiles. *Zdziarski, A.A., Neronov, A., Chernyakova, M.* 2010, MNRAS 403, 1873. (8b) Modelling the interaction of the relativistic pulsar wind with the clumpy wind of its Be companion.
V635 Cas (4U 0115+63)	*Raichur, H., Paul, B.* 2010, MNRAS 406, 2663. (1x, 5abcef) Detection of apsidal motion.
V822 Cen (Cen X-4)	*Cackett, E.M. et al.* (4 authors) 2010, ApJ 720, 1325. (1x, 2x) Variable thermal emission in quiescent state. *Shahbaz, T. et al.* (6 authors) 2010, MNRAS 403, 2167. (1ao, 5i) High-speed multi-color photometry of quiescent x-ray transient source.
V831 Cen	*Budding, E. et al.* (4 authors) 2010, MNRAS 403, 1448. (1ao*, 2ao, 5cde) Absolute parameters of near-contact EB, which is member of young multiple system.
BR Cir (Cir X-1)	*Linares, M. et al.* (17 authors) 2010, ApJ 719, L84. (1x) 15 x-ray bursts during 2010 rebrightening. *Torok, G. et al.* (5 authors) 2010, ApJ 714, 748. (5ef) Mass constraints on NS by relativistic precession model.
DD Com	*Zhu, L. et al.* (6 authors) 2010, AJ 140, 215. (1aoi, 1ao*, 5abc) Very short-period W UMa system.
KR Com	*Zasche, P., Uhlář, R.* 2010, A&A 519, A78. (1ao, 4i, 5b) Study of triple system.
Y CrA	*Fekel, F.C. et al.* (4 authors) 2010, AJ 139, 1315. (2ai, 5d) Symbiotic star without pulsation period.
V691 CrA (2A 1822−371)	*Burderi, L. et al.* (7 authors) 2010, A&A 515, A44. (2dx, 5b) A stable orbital-period derivative over 30 years for the LMXB.
U CrB	*Richards, M.T., Sharova, O.I., Agafonov, M.I.* 2010, ApJ 720, 996. (2ao, 5ki) Discovery of loop prominence at L1.

AI Cru	*Zhao, E.-G. et al.* (5 authors) 2010, RAA 10, 438. (1ao, 5ab) Secular and possible cyclic period changes.
BP Cru (GX 301-2)	*Doroshenko, V. et al.* (7 authors) 2010, A&A 515, A10. (2dgx) NS in HMXB highly magnetized?
SS Cyg	*Sion, E.M. et al.* (4 authors) 2010, ApJ 716, L157. (2u*, 5e) 0.81 $M_\odot$ WD companion found.
EM Cyg	*Dai, Z.-B., Qian, S.-B.* 2010, PASJ 62, 965. (1ao, 5abj) Sinusoidal and secular changes of the orbital period.
V404 Cyg	*Khargharia J., Froning, C.S., Robinson, E.L.* 2010, ApJ 716, 1105. (1i, 2i) Accretion disk contamination and compact object mass determination.
V407 Cyg	2010, IAU Circ. 9130 (1ad, 2c) Unusually bright outburst of recurrent nova. *Abdo, A.A. et al.* (220 authors) 2010, Science 329, 817. (2dgx, 5gi) γ-ray emission concurrent with nova outburst in symbiotic binary.
V1113 Cyg	*Bakowska, K. et al.* (4 authors) 2010, Acta Astronomica, 60, 137. (1a, 5b) 2003 and 2005 superhumps.
V1341 Cyg (Cyg X-2)	*Bałucińska-Church, M. et al.* (4 authors) 2010, A&A 512, A9. (2dx*, 5i) On the nature of the Cygnus X-2 like Z-track LMXB.
V1357 Cyg (Cyg X-1)	*Karitskaya, E.A. et al.* (8 authors) 2010, IBVS No. 5950. (3b) Discovery of variable magnetic field. *Sabatini, S. et al.* (61 authors) 2010, ApJ 712, L10. (2dx) Search for episodic γ-ray emission.
V1521 Cyg (Cyg X-3)	*Bednarek, W.* 2010, MNRAS 406, 689. (1g, 5cg, 8a) On the possibility of sub-TeV γ-ray emission. *Koljonen, K.I.I. et al.* (4 authors) 2010, MmSAI 81, 420. (2rx, 5i) New multi-wavelegth observations. *Koljonen, K.I.I. et al.* (5 authors) 2010, MNRAS 406, 307. (1rx*, 5cgij, 8a) Revisiting the radio/x-ray states. *Shrader, C.R., Titarchuk, L., Shaposhnikov, N.* 2010, ApJ 718, 488. (2x) BH mass confirmed (4.2-14.4 $M_\odot$).
V2246 Cyg (EXO 2030+375)	*Sasaki, M. et al.* (5 authors) 2010, A&A 517, A8. (2x, 5i) NS geometry through pulse profile.
V2362 Cyg	*Arai, A. et al.* (23 authors) 2010, PASJ 62, 1103. (1aio) A peculiar rebrightening event of Nova Cygni 2006.
AA Dor	*Müller, S., Geier, S., Heber, U.* 2010, Ap&SS 329, 101. (2ac*, 5cd) Brown dwarf companion?
χ Dra	*Farrington, C.D. et al.* (10 authors) 2010, AJ 139, 2308. (4c, 5de, 7abc) Separated-fringe-packet observations with CHARA array lead to new visual-spectroscopic orbit.
TW Dra	*Tkachenko, A., Lehmann, H. Mkrtichian, D.* 2010, AJ 139, 1327. (2ado, 5de, 8a) Model needs no circumstellar matter; system in quiescent phase.
WW Dra	*Liao, W.-P., Qian, S.-B.* 2010, MNRAS 405, 1930. (1ao, 5abcgb) A study of period changes. *Tian, Y.-P. et al.* (5 authors) 2010, PASJ 62, 515. (5b) A cyclic change of the orbital period.
HP Dra	*Milone, E.F., Kurpińska-Winiarska, M., Oblak, E.* 2010, AJ 140, 129. (1bo, 2a, 5bcde) Primary slightly evolved from main sequence.
EF Eri	*Schwope, A.D., Christensen, L.* 2010, A&A 514, A89. (2cdo, 5di) Massive WD with a sub-stellar secondary.

	Szkody, P. et al. (13 authors) 2010, ApJ 716, 1531. (1o, 2u) Modelling using WD with hot polar spot, not perfect.
DI Her	*Claret, A., Torres, G., Wolf, M.* 2010, A&A 515, A4. (5af)
DQ Her	*Saito, R.K. et al.* (4 authors) 2010, AJ 139, 2542. (2d, 5gij, 7d) Spectra dissected to give monochromatic LCs and eclipse maps fpr IP.
	Thomas, N.L. et al. (7 authors) 2010, A&A 514, A30. (1ao, 5bc) SuperWASP long-timescale photometry of the CV.
HZ Her (Her X-1)	*Bednarek, W., Pabich, J.* 2010, A&A 514, A61. (2dg*) γ-ray optical depth in LMXB.
	Leahy, D.A., Igna, C.D. 2010, ApJ 713, 318. (2dx) Turn on times uniformly distributed over orbital phase.
	Leahy, D.A., Dupuis, J. 2010, ApJ 715, 897. (2dux) Twisted-tilted AD to explain simultaneous UV and x-ray data.
V338 Her	*Yang, Y.-G. et al.* (5 authors) 2010, AJ 139, 1360. (1ao*, 5bc) Possible light-time effect.
V795 Her	*Thomas, N.L. et al.* (7 authors) 2010, A&A 514, A30. (1ao, 5bc) SuperWASP long-timescale photometry of CV.
RW Leo	*Liao, W.-P., Qian, S.-B.* 2010, PASJ 62, 1109. (1ao, 5ab) Orbital period changes.
WX LMi	*Linnell, A.P. et al.* (7 authors) 2010, ApJ 713, 1183. (1aou, 5c) Modelled with spots.
GW Lib	*van Spaandonk, L. et al.* (4 authors) 2010, ApJ 715, L109. (2c, 5e) WD has mass of 0.84 solar masses.
IL Lup (4U 1543−47)	*Gliozzi, M. et al.* (4 authors) 2010, A&A 512, A21. (2dx*, 5i) X-ray nova.
AO Mon	*Wolf, M. et al.* (4 authors) 2010, A&A 514, A75. (1ao, 5abf)
V616 Mon (A0620−00)	*González Hernández, J.I., Casares, J.* 2010, A&A 516, A58. (2ao, 5bd) Doppler tomography of BH binary.
	Gou, L. et al. (7 authors) 2010, ApJ 718, L122. (1x*, 2x*) Spin of BH.
GU Mus (GRS 1124−684))	*Shahbaz, T. et al.* (6 authors) 2010, MNRAS 403, 2167. (1ao, 5i) High-speed multi-color photometry of quiescent x-ray transient source.
QX Nor (4U 1608−52)	*Güver, T. et al.* (4 authors) 2010, ApJ 712, 964. (2cx) Inferred distance and mass and radius of NS.
V381 Nor (XTE J1550−564)	*Rao, F. et al.* (5 authors) 2010, ApJ 714, 1065. (2dx) Study of low-frequency QPO's.
	Russell, D.M. et al. (4 authors) 2010, MNRAS 405, 1759. (1aiox, 5cgi, 8a) Evidence for a compact jet dominating the broadband spectrum.
RS Oph	*Pavlenko, Y.V. et al.* (5 authors) 2010, MNRAS 404, 206. (2ci, 5h) $^{12}C/^{13}C$ ratio of giant component determined.
	Zamanov, R.K. et al. (12 authors) 2010, MNRAS 404, 381. (1ao) Analysis of flickering of recurrent nova at quiescence shows different behaviour compared with CVs.
ER Ori	*Lame'E, M.M., Javanmardi, B., Riazi, N.* 2010, JApA 31, 97. (1bo, 5abc) Photoelectric observations and analysis.
V1055 Ori (4U 0614+091)	*Kuulkers, E. et al.* (13 authors) 2010, A&A 514, A65. (2dx*, 5i) What ignites on the NS in this LMXB?
V1159 Ori	*Jiang, L.-L. et al.* (5 authors) 2010, ChA&A 34, 174. (1ao) Superhumps in the descending stage of a normal outburst.

KZ Pav	*S´urgit, D., Erdem, A., Budding, E.* 2010, MNRAS 407, 497. (1ao, 2a, 5abcdegjk) Absolute elements and orbital parameters.
BK Peg	*Clausen, J.V. et al.* (8 authors) 2010, A&A 516, A42. (1ao, 2a, 5eh) Accurate absolute dimensions.
DY Peg	*Li, L.-J., Qian, S.-B.* 2010, AJ 139, 2639. (1ao, 5b) Possible light-time effect in times of maxima of SX Phe star.
IM Peg	*Zellem, R. et al.* (6 authors) 2010, PASP 122, 670. (1ao, 5cg) Spot-model interpretation of multi-wavelength photometry.
WY Per	*Liao, W.-P., Qian, S.-B.* 2010, PASJ 62, 1109. (1ao, 5ab) Orbital period changes.
SZ Psc	*Wang, X.-L. et al.* (4 authors) 2010, PASJ 62, 671. (5b) A sinusoidal variation of the orbital period.
V574 Pup (Nova 2004)	*Naik, S. et al.* (4 authors) 2010, MNRAS 404, 367. (1ai, 2cdi, 5j) Physical parameters of nova ejecta derived.
T Pyx	*Selvelli, P. et al.* (4 authors) 2010, MmSAI 81, 388. (2ux, 5i) Not a supersoft x-ray source.
V505 Sgr	*Brož, M. et al.* (6 authors) 2010, AJ 139, 2258. (2d*, 4c*, 5a*, 8ad) Model system with three known bodies, an unseen fourth one, or mass transfer.
V4046 Sgr	*Rodriguez, D.R. et al.* (4 authors) 2010, ApJ 720, 1684. (1r, 2r) CO-imaged molecular disks around components of T Tauri system by submillimeter array.
V4743 Sgr	*Dobrotka, A., Ness, J.-U.* 2010, MNRAS 405, 2668. (1aoux*, 5bcg) Timing analysis of x-ray and optical/UV light curves. *Rauch, T. et al.* (6 authors) 2010, ApJ 717, 336. (2x, 5g) Spectral analysis of WD in nova.
V5512 Sgr (GX 13+1)	*Corbet, R.H.D. et al.* (4 authors) 2010, ApJ 719, 979. (1ix, 2ix) Properties of 24-day modulation.
V5586 Sgr	2010, IAU Circ. 9140 (1a, 2c, 4a, 6b) Discovery of possible classical nova.
U Sco	*Drake, J.J., Orlando, S.* 2010, ApJ 720, L195. (8) Hydrodynamic simulations of recurrent nova. *Ymanaka, M. et al.* (18 authors) 2010, PASJ 62, L37. (2cdo) Early time-series spectra during an outburst.
V393 Sco	*Mennickent, R.E. et al.* (4 authors) 2010, MNRAS 405, 1947. (2bciu*, 5deg, 8abd) A model based on infrared and IUE spectra.
V818 Sco (Sco X-1)	*Bednarek, W., Pabich, J.* 2010, A&A 514, A61. (2dg*) γ-ray optical depth in LMXB.
V884 Sco (4U 1700−37)	*Torrejon, J.M. et al.* (4 authors) 2010, ApJ 715, 947. (2cx) Suggest highly structured stellar winds.
V1309 Sco	*Mason, E. et al.* (5 authors) 2010, A&A 516, A108. (2c, 5g) Peculiar "red" nova.
V1311 Sco	2010, IAU Circ. 9142 (1ad, 2c, 4a, 6b) Discovery of He-N nova in declining phase.
V479 Sct (LS 5039)	*Cerutti, B. et al.* (4 authors) 2010, A&A 519, A81. (2g, 8d) 3D pair cascade modelling.
AO Ser	*Yang, Y.-G. et al.* (5 authors) 2010, AJ 139, 1360. (1ao, 5abc) Possible light-time effect.

RW Sex	*Linnell, A.P. et al.* (5 authors) 2010, ApJ 719, 271. (2u) Anomalous accretion disk.
V725 Tau (A0535+26)	*Moritani, Y. et al.* (10 authors) 2010, MNRAS 405, 467. (2bcox, 5abcdcegi, 8a) The long-term profile variability.
RW Tri	*Noebauer, U.M. et al.* (4 authors) 2010, ApJ 719, 1932. (12o) Geometry and ionization structure of wind.
AI Tri	*Traulsen, I. et al.* (7 authors) 2010, A&A 516, A76. (1u, 2x, 5i) One-pole accretion.
KZ TrA (4U 1626−67)	*Jain, C., Paul, B., Dutta, A.* 2010, MNRAS 403, 920. (1x, 2dx, 5i) Correlation between flux enhancement and spin-up rate of accretion-powered x-ray pulsar detected. *Zhang, Z., Li, X.-D.* 2010, A&A 518, A19. (1x, 5i) Testing pulsar torque reversals.
UX UMa	*Noebauer, U.M. et al.* (4 authors) 2010, ApJ 719, 1932. (12o) Geometry and ionization structure of wind.
XY UMa	*Yuan, J.* 2010, AJ 139, 1801. (1ao, 5abc) LCs show variable asymmetry.
BS UMa	*Wils, P. et al.* (4 authors) 2010, IBVS No. 5940. (1a, 2c, 5ab) Highly active low-mass EB.
EZ UMa	*Jiang, L.-L. et al.* (5 authors) 2010, ChA&A 34, 174. (1ao) No evidence of superhump at the maximum of an outburst.
KV UMa (XTE J1118+480)	*Brocksopp, C. et al.* (7 authors) 2010, MNRAS 404, 908. (1riox, 5ij) Disentangling jet and AD emission during 2005 outburst.
α UMi	*Evans, N.R. et al.* (8 authors) 2010, AJ 139, 1968. (2x, 6c, 8a) Polaris has only two physical companions.
GP Vel (Vel X-1)	*Fürst, F. et al.* (11 authors) 2010, A&A 519, A37. (2x*, 5ij) Wind structure study.
LM Vel (IGR J08408−4503)	*Bozzo, E. et al.* (8 authors) 2010, A&A 519, A6. (2x, 5i) Study of spectral variability.
HT Vir	*Kiao, W.-P., Qian, S.-B.* 2010, PASJ 62, 521. (1ao, 5ab) Detection of a cyclic period change.
RS Vul	*Richards, M.T., Sharova, O.I., Agafonov, M.I.* 2010, ApJ 720, 996. (2ao, 5ki) Discovery of loop prominence at L1.

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

HR 1988 (HD 38529)	*Benedict, G.F. et al.* (7 authors) 2010, AJ 139, 1844. (2ao, 4bo, 5de) Larger, more distant companion is brown dwarf, not planet.
HR 6979	*Fekel, F.C., Tomkin, J., Williamson, M.H.* 2010, AJ 139, 1579. (2ao, 5d) Components rotate more slowly than pseudo-synchronously.
HR 7955 (HD 198084)	*Farrington, C.D. et al.* (10 authors) 2010, AJ 139, 2308. (4c, 5de, 7abc) Separated-fringe-packet observations with CHARA array lead to new visual-spectroscopic orbit.
HR 9059	*Fekel, F.C., Tomkin, J., Williamson, M.H.* 2010, AJ 139, 1579. (2ao, 5d) Components rotate more slowly than pseudo-synchronously. Hipparcos photometry shows eclipse.

HD 1	*Strassmeier, K.G. et al.* (4 authors) 2010, Astron. Nachr. 331, 368. (1bo, 2ao, 5dhk) Photometric and spectroscopic study and element abundance analysis of SB1 system.
HD 5980	*Koenigsberger, G. et al.* (6 authors) 2010, AJ 139, 2600. (1o*, 2do*, 2dou) Possible 40-year variability cycle.
HD 38529	(see HR 1988)
HD 46149	*Degroote, P. et al.* (18 authors) 2010, A&A 519, A38. (1ao, 2ac, 5d) Detection of non-radial pulsation frequency spacings.
HD 49798 (RX J0648.0−4418)	*Wang, B., Han, Z.-W.* 2010, RAA 10, 681. (5c) A likely candidate of a SN Ia progenitor.
HD 184467	*Farrington, C.D. et al.* (10 authors) 2010, AJ 139, 2308. (4c, 5de, 7abc) Separated-fringe-packet observations with CHARA array lead to new visual-spectroscopic orbit.
HD 198084	(see HR 7955)

X-ray sources with constellation names

Cen X-1	(see 1RXS J144254.3−622815)
Cen X-4	(see V822 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-3	(see 1RXS J053855.6−640457)
LMC X-4	(see 1RXS J053246.1−662203)
Sco X-1	(see V818 Sco)
X Sgr X-4	(see 4U 1820−30)
SMC X-1	(see 2MASS J01170514−7326360)
Vel X-1	(see GP Vel)

Objects with names including RA and DEC

IGR J00291+5934	*Lewis, F. et al.* (21 authors) 2010, A&A 517, A72. (1aoir, 2x, 5i) Multi-wavelength study of outburst.
OGLE 004336.91−732637.7	*Mennickent, R.E. et al.* (5 authors) 2010, PASP 122, 662. (1ao, 6b) Light variations of LMC supergiant interpreted as being due to binary nature.
OGLE 004633.76−731204.3	*Mennickent, R.E. et al.* (5 authors) 2010, PASP 122, 662. (1ao, 6b) Light variations of LMC supergiant interpreted as being due to binary nature.
XTE J0103−728 (SXP6.85)	*Townsend, L.J. et al.* (9 authors) 2010, MNRAS 403, 1239. (1aix, 2aox, 5i) Optical/x-ray outburst of SMC Be/x-ray binary pulsar.
FBS 0107−082	*Honeycutt, R.K., Kafka, S.* 2010, AJ 139, 2706. (1ao, 2d) Probably symbiotic nova in prolonged outburst, not nova-like CV.
MCT 0107−3416 (GD 687)	*Geier, S. et al.* (4 authors) 2010, A&A 515, A37. (2ao, 5dk) Massive double degenerate binary.

4U 0115+63	(see V635 Cas)
2MASS J01170514−7326360) (SMC X-1)	*Inam, S.Ç., Baykal, A., Beklen, E.* 2010, MNRAS 403, 378. (1x, 5b) Timing analysis yields 30 year pulse period history, orbital period change and accurate eccentricity.
2MASS J01364243+5415215 (GSC 3671-0099)	*Siviero, A., Dallaporta, S., Munari, U.* 2010, IBVS No. 5936. (1a, 2a, 5bc, 6b) Discovery of a new highly eccentric EB.
IGR J01583+6713	*Wang, W.* 2010, A&A 516, A15. (2x, 5i) Magnetic NS in x-ray transient.
HE 0230−4323	*Kilkenny, D., Koen, C., Worters, H.* 2010, MNRAS 404, 376. (1ao*) Rapidly pulsating sdB component in a close system with P=0.45 day and strong reflection effect.
V0332+53	(see BQ Cam)
2MASS J03451680+1748091 (NLTT 11748)	*Kawka, A., Vennes, S., Vaccaro, T.R.* 2010, A&A 516, L7. (2ac, 5d) Double-degenerate system. *Steinfadt, J.D.R. et al.* (5 authors) 2010, ApJ 716, L146. (1i, 2o, 5e, 6a) Detached WD binary discovered.
4U 0513−40	*Maccarone, T.J. et al.* (5 authors) 2010, MNRAS 406, 2087. (1x*, 5cgij, 8a) Study of large amplitude variability.
RX J0527.8−6954	*Oliveira, A.S. et al.* (5 authors) 2010, A&A 517, L5. (2c, 6c) Counterpart of x-ray source in LMC.
1RXS J053246.1−662203 (LMC X-4)	*Torrejon J.M., et al.* (4 authors) 2010, ApJ 715, 947. (2cx) Suggest highly structured stellar winds.
A0535+26	(see V725 Tau)
2MASS J05352184−0546085	*Heller, R. et al.* (5 authors) 2010, A&A 514, A22. (8a) Tidal effects in brown dwarf EB.
1RXS J053855.6−640457 (LMC X-3)	*Song, L. et al.* (11 authors) 2010, AJ 140, 794. (2du, 2ao, 5bgi) Possible hot spot caused by x-rays from accreting BH is source of O VI and N V emission. *Steiner, J.F. et al.* (5 authors) 2010, ApJ 718, L117. (1x*, 2x*) Radius of BH inner disk.
4U 0614+091	(see V1055 Ori)
A0620−00	(see V616 Mon)
RX J0648.0−4418	(see HD 49798)
IGR J08408−4503	(see LM Vel)
SDSS J103100.55+202832.2	*Linnell, A.P. et al.* (7 authors) 2010, ApJ 713, 1183. (1aou, 5c) Modelled with spots.
XTE J1118+480	(see KV UMa)
1A 1118−61	*Doroshenko, V. et al.* (8 authors) 2010, A&A 515, L1. (2cdx) Pulse timing in HMXB pulsar.
GRS 1124−684	(see GU Mus)
SDSS J121209.31+013627.7	*Linnell, A.P. et al.* (7 authors) 2010, ApJ 713, 1183. (1aou, 5c) Modelled with spots.
CXO J122518.6+144545	*Jonker, P.G. et al.* (6 authors) 2010, MNRAS 407, 645. (1ao*x, 5cg, 6bc) On the possible nature of the x-ray source and its associated candidate optical counterpart.
XSS J12270−4859	*de Martino, D. et al.* (10 authors) 2010, A&A 515, A25. (1aio, 2dgx) LMXB interpretation for high-energy γ-ray source favoured.

SDSS J125733.63+542850.5	*Kulkarni, S.R., Kerkwijk, M.H.* 2010, ApJ 719, 1123. (2bo) Confirmed double WD binary.
SDSS J1416+13AB	*Burningham, B. et al.* (14 authors) 2010, MNRAS 404, 1952. (1ai, 2b, 4a, 5cdeg, 6b) Discovery of a very cool binary system.
2S 1417−624	*Raichur, H., Paul, B.* 2010, MNRAS 406, 2663. (1x, 5abce) New orbital parameters.
1RXS J144254.3−622815 (Cen X-1)	*Khargharia J., Froning, C.S., Robinson, E.L.* 2010, ApJ 716, 1105. (1i, 2i) Accretion disk contamination and compact object mass determination.
2MASS J15334944+3759282 (NSVS 07826147)	*For, B.-Q. et al.* (4 authors) 2010, Ap&SS 329, 87. (1ao, 2a, 5cd) Rare reflection effect in sdB+dM EB. *Liying, Z., Shengbang, Q.* 2010, Ap&SS 329, 107. (1ao, 5c) Short-period EB with sdB component.
4U 1543−47	(see IL Lup)
LSPM J1546+0441S (NLTT 41135)	*Irwin, J. et al.* (16 authors) 2010, ApJ 718, 1353. (1aio, 2i, 6b) MEarth discovery of M dwarf + brown dwarf in M-dwarf triple-star system.
XTE J1550−564	(see V381 Nor)
SDSS J160043.60+074802.9	*Lynas-Gray, A. E., Rodríguez-López, C., Kilkenny, D.* 2010, Ap&SS 329, 225. (8ac) Study of the subdwarf-O pulsator component.
4U 1608−52	(see QX Nor)
IGR J16207−5129	*Bodaghee, J.A. et al.* (6 authors) 2010, ApJ 719, 451. (1x, 2x) Broad-band observations.
4U 1626−67	(see KZ TrA)
IGR J16358−4726	*Nespoli, E., Fabregat, J., Mennickent, R.E.* 2010, A&A 516, A94. (2ibc) New symbiotic x-ray binary.
IGR J16393−4643	*Nespoli, E., Fabregat, J., Mennickent, R.E.* 2010, A&A 516, A94. (2ibc) New symbiotic x-ray binary.
IGR J16493−4348	*Nespoli, E., Fabregat, J., Mennickent, R.E.* 2010, A&A 516, A106. (2ibc) Spectral classification.
4U 1700−37	(see V884 Sco)
XTE J1701−462	*Fridriksson, J.K. et al.* (10 authors) 2010, ApJ 714, 270. (2dx) Study of rapid cooling of NS after outburst. *Homan, J. et al.* (11 authors) 2010, ApJ 719, 201. (1x, 2x) The nature of subclasses in low-magnetic-field NS in LMXB.
4U 1705−44	*D'Aì, A. et al.* (13 authors) 2010, A&A 516, A36. (2x, 5i) Study of hard and soft states. *Lin, D., Remillard, R.A., Homan, J.* 2010, ApJ 719, 1350. (1x, 2x) Persistently accreting NS binary.
1RXS J170618.4−430253 (GX 340-0)	*Bałucińska-Church, M. et al.* (4 authors) 2010, A&A 512, A9. (2dx*, 5i) A Cyg X-2-like Z-track LMXB.
KS 1731−260	*Šimon, V.* 2010, A&A 513, A71. (2dx, 5i) Echo outbursts in NS LMXB. *Zurita, C. et al.* (8 authors) 2010, A&A 512, A26. (1aio, 5i, 6c)
1RXH J173523.7−354013	*Degenaar, N. et al.* (17 authors) 2010, MNRAS 404, 1591. (1iox, 5cegi, 6bc) An unusual bursting neutron star.
XTE J1739−302	*Bozzo, E. et al.* (8 authors) 2010, A&A 519, A6. (2x, 5i) Study of spectral variability.
PSR J1740−3052	*Tam, C.R. et al.* (8 authors) 2010, MNRAS 406, 1848. (2ai, 5deg) A search for a binary companion.

H 1743−322	*Blum, J.L. et al.* (8 authors) 2010, ApJ 713, 1244. (2dx) Data suggest that disk winds are partially state-dependent.
Swift J1749.4−2807	*Markwardt, C.B., Strohmayer, T.E.* 2010, ApJ 717, L149. (1x, 5a) X-ray eclipses detected. *Yu, J., Xu, R.* 2010, RAA 10, 815. (8a) An inquiry into the nature of the compact component.
XTE J1752−223	*Nakahira, S. et al.* (31 authors) 2010, PASJ 62, L27. (2xd) A spectral state transition during an putburst.
Swift J1753.5−0127	*Chiang, C.Y. et al.* (4 authors) 2010, MNRAS 403, 1102. (1aoux, 2doux, 5i) Modelling x-ray illuminated disk of BH binary. *Soleri, P. et al.* (15 authors) 2010, MNRAS 406, 1471. (1iorx, 5cgi, 8a) Investigating the disc-jet coupling in accreting compact objects.
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1RXS J180108.7−250444 (GX 5-1)	*Bałucińska-Church, M. et al.* (4 authors) 2010, A&A 512, A9. (2dx*, 5i) A Cyg X-2-like Z-track LMXB. *Church, M.J. et al.* (4 authors) 2010, MmSAI 81, 275. (2x, 5i) Nature of the 4th track.
2MASS J18153106−2135228 (SS 73-147)	*Fekel, F.C. et al.* (4 authors) 2010, AJ 139, 1315. (2ai, 5d) Symbiotic star without pulsation period.
4U 1820−30 (X Sgr X-4)	*Güver, T. et al.* (4 authors) 2010, ApJ 719, 1807. (1x, 2x) Mass and radius of NS.
2A 1822−371	(see V691 CrA)
1E 1841−045	*Morii, M. et al.* (10 authors) 2010, PASJ 62, 1249. (2dx) X-ray spectra and their interpretation.
SCR J1845−6357	*Robrade, J., Poppenhaeger, K., Schmitt, J.H.M.M.* 2010, A&A 513, A12. (2dx, 5g) Quiescent and flaring x-ray emission from the nearby M/T dwarf binary.
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4U 1908+075	*Torrejon, J.M. et al.* (4 authors) 2010, ApJ 715, 947. (2cx) First evidence of a Compton shoulder.
GRS 1915+105	(see V1487 Aql)
KIC J192410.81+445934.9	*Williams, K.A. et al.* (9 authors) 2010, AJ 139, 2587. (1ao, 2ad, 6b) New nova-like CV in field of Kepler mission.
KS 1947+300	*James, M. et al.* (4 authors) 2010, MNRAS 407, 285. (1x, 5bcgi) Discovery of QPOs at 0.02 Hz.
2MASS J20261584−2943124	*Gelino, C.R., Burgasser, A.J.* 2010, AJ 140, 110. (2di) Unresolved spectrum binary, possibly of very low mass.
EXO 2030+375	(see V2246 Cyg)
SDSS J204827.91+005008.9	*Kafka, S., Tappert, C., Honeycutt, R.K.* 2010, MNRAS 403, 755. (2ac, 5gij) Accretion stream in low-accretion-rate polar detected.
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Cyg OB2 No. 8A	*Blomme, R. et al.* (4 authors) 2010, A&A 519, A111. (2rx, 5j) Study of stellar winds.
Cyg OB2 No. 9	*Naze, Y. et al.* (7 authors) 2010, ApJ 719, 634. (2ao, 5d) First solution of non-thermal emitter.
GD 687	(see MCT 0107−3416)
GSC 2314-0530	*Dimitrov, D.P., Kjurkchieva, D. P.* 2010, MNRAS 406, 2559. (1ao, 2abc, 5abcdeg, 8a) Global parameters and chromospheric activity.
GSC 3671-0099	(see 2MASS J01364243+5415215)
GX 5-1	(see 1RXS J180108.7−250444)
GX 13-1	(see V 5512 Sgr)
GX 301-2	(see BP Cru)
GX 339-4	(see V821 Ara)
GX 340-0	(see 1RXS J170618.4−430253)
LS 5039	(see V479 Sct)
LS I +61°303	(see V615 Cas)
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NGC 6026	*Hillwig, T.C. et al.* (4 authors) 2010, AJ 140, 319. (1ao, 2ado) Binary central star of PN.
NGC 6337	*Hillwig, T.C. et al.* (4 authors) 2010, AJ 140, 319. (1ao, 2ado) Binary central star of PN.
NGC 6440	*Heinke, C.O. et al.* (14 authors) 2010, ApJ 714, 894. (6be) Discovery of second transient LMXB in globular cluster NGC 6440.
NLTT 11748	(see 2MASS J03451680+1748091)
NLTT 41135	(see LSPM J1546+0441S)
NSVS 07826147	(see 2MASS J15334944+3759282)
NSVS 11868841	(see 2MASS J23175756+1917028)
SN 2005cz	*Kawabata, K. S. et al.* (9 authors) 2010, Nature 465, 326. (2cdo) Massive star in CB is likely SN progenitor.
SN 2007bg	*Young, D. R. et al.* (18 authors) 2010, A&A 512, A70. (1ao, 2cdo, 5hj) Type Ic SN in low-metallicity dwarf galaxy.
SN 2007bi	*Young, D. R. et al.* (18 authors) 2010, A&A 512, A70. (1ao, 2cdo, 5hj) Type Ic SN in low-metallicity dwarf galaxy.
SN 2010U	*Humphreys, R.M. et al.* (15 authors) 2010, ApJ 718, L43. (1r, 2o) Luminous nova (not SN) in NGC 4214.
SS 433	(see V1343 Aql)
SS 73-147	(see 2MASS J18153106−2135228)
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TYC 2675-663-1	*Caballero-García, M. D. et al.* (7 authors) 2010, A&A 514, A36. (1ao, 2ao, 5bcde) W UMa system in active state.

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(V381 Nor), 4U 1630−47, XTE J1650−500, GRO J1655−40 (V1033 Sco), SAX J1711.6−3808, XTE J1720−318 (V1228 Sco), GRS 1737−31, GRS 1739−278 (V2606 Oph), H 1743−322, SLX 1746−331, XTE J1748−288, XTE J1755−324, GRS 1758−258, XTE J1817−330, SAX 1819.3−2525 (V4641 Sgr), XTE J1859+226 (V406 Vul), 4U 1957+115 (V1408 Aql), XTE J2012+381, GS 2023+338 (V404 Cyg), GX 339−4 (V821 Ara).

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V654 Cas, V776 Cas, U Cep, SU Cep, VW Cep, AI Cep, BE Cep, CO Cep, DV Cep, GS Cep, GW Cep, LM Cep, NR Cep, ZZ Cyg, BO Cyg, CG Cyg, CV Cyg, DK Cyg, DL Cyg, DO Cyg, DP Cyg, DX Cyg, EN Cyg, GG Cyg, GM Cyg, GT Cyg, GV Cyg, KR Cyg, LO Cyg, MR Cyg, PQ Cyg, QS Cyg, QU Cyg, QW Cyg, V345 Cyg, V366 Cyg, V370 Cyg, V388 Cyg, V401 Cyg, V435 Cyg, V442 Cyg, V444 Cyg, V454 Cyg, V456 Cyg, V463 Cyg, V466 Cyg, V477 Cyg, V483 Cyg, V488 Cyg, V490 Cyg, V508 Cyg, V509 Cyg, V512 Cyg, V519 Cyg, V526 Cyg, V534 Cyg, V536 Cyg, V537 Cyg, V541 Cyg, V587 Cyg, V616 Cyg, V628 Cyg, V635 Cyg, V661 Cyg, V675 Cyg, V680 Cyg, V699 Cyg, V700 Cyg, V704 Cyg, V705 Cyg, V706 Cyg, V711 Cyg, V726 Cyg, V728 Cyg, V749 Cyg, V787 Cyg, V828 Cyg, V842 Cyg, V850 Cyg, V856 Cyg, V859 Cyg, V869 Cyg, V873 Cyg, V877 Cyg, V880 Cyg, V891 Cyg, V906 Cyg, V909 Cyg, V912 Cyg, V940 Cyg, V941 Cyg, V961 Cyg, V962 Cyg, V965 Cyg, V1004 Cyg, V1011 Cyg, V1013 Cyg, V1034 Cyg, V1048 Cyg, V1061 Cyg, V1066 Cyg, V1073 Cyg, V1083 Cyg, V1136 Cyg, V1171 Cyg, V1188 Cyg, V1189 Cyg, V1193 Cyg, V1321 Cyg, V1326 Cyg, V1401 Cyg, V1411 Cyg, V1414 Cyg, V1417 Cyg, V1787 Cyg, V2031 Cyg, V2181 Cyg, V2239 Cyg, V2240 Cyg, V2247 Cyg, V2280 Cyg, V2284 Cyg, V2364 Cyg, V2422 Cyg, V2456 Cyg, LS Del, RZ Dra, BE Dra, BF Dra, BS Dra, GQ Dra, KK Dra, LZ Dra, BT Gem, KV Gem, TX Her, AD Her, DD Her, MM Her, V342 Her, V643 Her, V719 Her, V728 Her, V829 Her, V842 Her, V1032 Her, V1038 Her, V1049 Her, V1055 Her, V1091 Her, V1106 Her, RT Lac, RW Lac, SW Lac, TW Lac, UW Lac, VX Lac, AR Lac, AU Lac, AW Lac, BB Lac, BS Lac, CG Lac, CM Lac, CN Lac, CO Lac, DG Lac, EK Lac, EL Lac, EM Lac, EP Lac, EQ Lac, ER Lac, ES Lac, EX Lac, EY Lac, FL Lac, GX Lac, HX Lac, IL Lac, IM Lac, IP Lac, IU Lac, IZ Lac, KS Lac, LU Lac, LY Lac, LZ Lac, MZ Lac, NR Lac, NS Lac, OO Lac, OS Lac, PP Lac, V342 Lac, V344 Lac, V345 Lac, V364 Lac, V401 Lac, V402 Lac, V441 Lac, UZ Lyr, AA Lyr, BV Lyr, FH Lyr, PS Lyr, QU Lyr, V412 Lyr, V579 Lyr, V580 Lyr, V423 Oph, V509 Oph, V577 Oph, V969 Oph, V2612 Oph, VV Ori, GG Ori, V1353 Ori, U Peg, AT Peg, BK Peg, BY Peg, CE Peg, CU Peg, DF Peg, DI Peg, DM Peg, GH Peg, LS Peg, AG Per, BP Per, FW Per, HS Per, IK Per, KN Per, QT Per, QU Per, V337 Per, V427 Per, V432 Per, V449 Per, V450 Per, U Sge, V Sge, UZ Sge, BR Sge, CK Sge, CW Sge, DE Sge, DK Sge, DM Sge, FF Sge, FL Sge, GN Sge, GO Sge, V365 Sge, X Tri, RS UMi, TV UMi, RS Vul, AB Vul, AW Vul, BE Vul, BG Vul, BS Vul, DR Vul, FM Vul, FO Vul, FR Vul, GP Vul, GR Vul, GV Vul, V403 Vul, V467 Vul, GSC 00238-00793, GSC 00434-03766, GSC 0113-400160, GSC 01134-00352, GSC 01330-00293, GSC 01643-01880, GSC 02149-00720, GSC 02161-01310, GSC 02537-00520, GSC 02569-00553, GSC 02656-04286, GSC 02673-02495, GSC 02677-00988, GSC 02712-02018, GSC 02712-02166, GSC 03137-00126, GSC 03575-03593, GSC 03575-06239, GSC 03576-00170, GSC 03612-00014, GSC 03618-00162, GSC 03618-00448, GSC 03619-00047, GSC 03675-01186, GSC 03679-02129, GSC 03688-01184, GSC 04009-00670, GSC 04030-02020, GSC 04285-00122, GSC 04497-00283, GSC 04502-00138, GSC 04502-01040, GSC 04816-02749, TYC 4015-0998.

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