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Commission 42

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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, 5abcd-cegi, 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.
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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.
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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.
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KS 1731−260	*Šimon, V.* 2010, A&A 513, A71. (2dx, 5i) Echo outbursts in NS LMXB.
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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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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.
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EXO 2030+375	(see V2246 Cyg)
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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 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)
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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.
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SS 433	(see V1343 Aql)
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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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