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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.  $\gamma$ -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 $\gamma$ -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

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## Abbreviations

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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

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## Individual Stars

Z And	<i>Brockopp, C. et al.</i> (6 authors) 2004, MNRAS 347, 430. (1ir, 5g, 8b) A jet-like emission.
RX And	<i>Kato, T.</i> 2004, PASJ 56, S55. (1) Detection of a short fading episode.
LL And	<i>Kato, T.</i> 2004, PASJ 56, S135. (1) Small outburst amplitude and short outburst duration.
CI Aql	<i>Lynch, D.K. et al.</i> (7 authors) 2004, AJ 127, 1089. (2cdi, 5g) Reddening and distance for recurrent nova. <i>Matsumoto, K., Kawabata, T., Ayani, K.</i> 2003, IBVS 5454. (2bco) Optical spectrum in the plateau phase.
V1333 Aql (Aql X-1)	<i>Campana, S., Stella, L.</i> 2003, ApJ 597, 474. (2dx) Reanalysis of x-ray variability. <i>Reig, P., van Staaten, S., van der Klis, M.</i> 2004, ApJ 602, 918. (1, 2x) Timing properties of spectral states.
V1343 Aql (SS 433)	<i>Chakrabarti, S.K. et al.</i> (5 authors) 2003, ApJ 595, L45. (1irx) Evidence of ejection of bullet-like features from AD. <i>Cherepashchuk, A.M. et al.</i> (6 authors) 2003, A&A 411, L441. (1ag)
V1432 Aql	<i>Mukai, K. et al.</i> (5 authors) 2003, ApJ 597, 479. (2d, 8d) Conclude low-mass, rather than high-mass WD. <i>Singh, K.P., Rana, V.R.</i> 2003, A&A 410, 231. (1bx*, 5i) Polar or intermediate polar?
V1487 Aql (GRS 1915+105)	<i>Chapuis, C., Corbel, S.</i> 2004, A&A 414, 659. (1mr) distance determination. <i>Hannikainen, D.C. et al.</i> (23 authors) 2003, A&A 411, L415. (1agx, 2dg) <i>Harlaftis, E.T., Greiner, J.</i> 2004, A&A 414, L13. (2ai*, 5ek) <i>Reig, P., Belloni, T., van der Klis, M.</i> 2003, A&A 412, 229. (1x,5i) <i>Vadawale, S.V. et al.</i> (7 authors) 2003, ApJ 597, 1023. (2r) Explanation of various radio emissions.
V1494 Aql	<i>Kato, T. et al.</i> (5 authors) 2004, PASJ 56, S125. (1) A bump-like and a dip-like features in the orbital LC. <i>Kiss, L.L., Csák, B., Derekas, A.</i> 2004, A&A 416, 319. (1ao, 2ao) Effects of close companion.
AT Ara	<i>Bruch, A.</i> 2003, A&A 209, 647. (1ao, 2ao, 5cde)
V821 Ara (GX 339-4)	<i>Gallo, E. et al.</i> (5 authors) 2004, MNRAS 347, L52. Transient large-scale jets (1rx, 5gi).
AR Aur	<i>Albayrak, B., Ak, T., Elmasli, A.</i> 2003, Astron. Nachr. 324, 523. (1abo, 5ab).
KU Aur	<i>Lacy, C.H.S.</i> 2004, IBVS 5499. (5abc) Photometric orbit.
V432 Aur	<i>Marrese, P.M. et al.</i> (8 authors) 2004, A&A 413, 635. (1ao*, 2ao, 5de)
AY Cam	<i>Derekas, A. et al.</i> (4 authors), 2003, IBVS 5479. (1a, 5c) Limits on pulsations.
BY Cam	<i>Ramsay, G., Cropper, M.</i> 2004, MNRAS 347, 497. (1x, 5gi) Energy balance revisited.
CI Cam (XTE J0421+560)	<i>Ishida, M., Morio, K., Ueda, Y.</i> 2004, ApJ 600, 1088. (1x, 2x, 5i) An accreting WD binary?
SW Cnc	<i>Lacy, C.H.S.</i> 2004, IBVS 5499. (5abc) Photometric orbit.

WY Cnc	<i>Kjurkchieva, D., Marchev, D., Ogloza, W.</i> 2004, A&A 415, 231. (1bo, 2ao, 5e)
EG Cnc	<i>Kato, T. et al.</i> (4 authors) 2004, PASJ 56, S109. (1) Repetitive rebrightenings and superhumps after the main superoutburst in 1996-1997.
CW CMi (GSC 4832.400)	<i>Jurado Vargas, M., Merchán Benítez, P.</i> 2003, Ap&SS 288, 237. (1ao, 5c)
$\eta$ Car	<i>Soker, N.</i> 2003, ApJ 597, 513. (8d) Accretion-induced collimated fast wind model.
OY Car	<i>Wheatley, P.J., West, R.G.</i> 2003, MNRAS 345, 1009. (1xou, 5bi) X-ray emission from polar regions.
RZ Cas	<i>Gunn, A.G., Brady, P.A.</i> 2003, MNRAS 346, 337. (4cr, 5g) Detection of emitting region. <i>Lehmann, H., Mkrtichian, D.E.</i> 2004, A&A 413, 293. (2ao, 5bd) Detection of rapid multi-mode pulsations.
	<i>Rodríguez, E. et al.</i> (15 authors) 2004, MNRAS 347, 1317. (1ab,5abceg) $\delta$ Scuti-type pulsations.
AB Cas	<i>Soydugan, E. et al.</i> (4 authors) 2003, AJ 126, 1933. (1bo, 5abc) Primary is a $\delta$ Sct star.
AR Cas	<i>Krylov, A.V. et al.</i> (4 authors) 2003, AZh, 80, 601. (1a, 2ad, 5f) Apsidal motion and physical parameters.
DN Cas	<i>Zakirov, M.M.</i> 2001, KFNT 17, 313. (1a, 2a) In Perseus spiral arm.
IQ Cas	<i>Zakirov, M.M.</i> 2002, KFNT 18, 291. (1bo, 5bc) Mass and age estimates for binary in Perseus spiral arm.
V523 Cas	<i>Zhang, X.B., Zhang, R.X.</i> 2004, MNRAS 347, 307. (1abo, 5abcej) Long-term photometry and modelling.
V592 Cas	<i>Witherick, D.K. et al.</i> (4 authors) 2003, MNRAS 346, 861. (2aco, 5bdgi) Balmer absorption variability and disc wind.
V723 Cas	<i>Evans, A. et al.</i> (16 authors) 2003, AJ 126, 1981. (2cdi, 5ghj)
V764 Cen	<i>Morel, T. et al.</i> (5 authors) 2003, A&A 412, 495. (2c,5gh)
V803 Cen	<i>Kato, T. et al.</i> (6 authors) 2004, PASJ 56, S89. (1) Resemblance of 2003 outburst to that of WZ Sge-type stars.
V834 Cen	<i>Potter, S., Romero-Colmenero, E., Buckley, D.A.H.</i> 2004, Astron. Nachr. 325, 201. (3b, 5ij) Stokes imaging of disk. <i>Potter, S.B. et al.</i> (5 authors) 2004, MNRAS 348, 316. (2co, 3ao, 5begi) Stokes imaging, Doppler mapping and Roche tomography.
V851 Cen	<i>Morel, T. et al.</i> (5 authors) 2003, A&A 412, 495. (2c,5gh)
EK Cep	<i>Yildiz, M.</i> 2003, A&A 409, 689. (8a) Does primary have rapidly rotating core?
FK Cep	<i>Antipin, S.V., Kroll, P.</i> 2003, IBVS 5461. (1c, 5b) First light elements for EB.
OT Cep	<i>Niarchos, P.G., Gazeas, K.D.</i> 2004, Baltic Astronomy 13, 142. (1a, 5bc) A new ephemeris and a LC analysis.
WX Cet	<i>Mennickent, R.E., Diaz, M.P., Tappert, C.</i> 2004, MNRAS 347, 1180. (2bci, 5g, 6b) Search for brown dwarf secondaries.
BR Cir (Cir X-1)	<i>Clarkson, W.I., Charles, P.A., Onyett, N.</i> 2004, MNRAS 348, 458. (1x, 5bceij, 8c) Modelling the X-ray behaviour. <i>Ding, G.Q., Qu, J.L., Li, T.P.</i> 2003, ApJ 596, L219. (2dx) Attempted explanation of the X-ray power law spectrum.

	<i>Fender, R. et al.</i> (7 authors) 2004, Nature 427, 222. (4r*, 5i, 6c) Ultra-relativistic outflow from accreting NS.
	<i>Parkinson, P.M.S. et al.</i> (9 authors) 2003, ApJ 595, 333. (2dx, 5b) Variability monitored over 30 years.
DE Cir	2003, IAU Circ. 8219 (1c, 4a, 6b) Possible new nova. 2003, IAU Circ. 8221 (1a, 2c, 4a) H $\alpha$ emission and designation. 2003, IAU Circ. 8229 (1ao).
TV Col	<i>Rana, V.R., Singh, K.P.</i> 2003, Bull. Astron. Soc. India 31, 347. (1x) Hard x-ray observations with RXTE. <i>Rana, V.R. et al.</i> (4 authors) 2004, AJ 127, 489. (1x, 5b) Periodicities in x-ray emission.
T CrB	<i>Dobrotka, A., Hric, L., Petrik, K.</i> 2004, Baltic Astronomy 13, 159. (5j) Fluctuations in the mass transfer rate.
RW CrB	<i>Derekas, A. et al.</i> (4 authors), 2003, IBVS 5479. (1a, 5c) Limits on pulsations.
VW CrB	<i>Nogami, D. et al.</i> (5 authors) 2004, PASJ 56, S155. (1) Confirmation of an SU UMa-nature and some parameters on the outbursts.
YY CrB	<i>Vaňko, M. et al.</i> (4 authors) 2004, Baltic Astronomy 13, 151. (1a, 2a*, 5ce) A LC analysis and the absolute parameters.
SS Cyg	<i>McGowan, K.E., Priedhorsky, W.C., Trudolyubov, S.P.</i> 2004, ApJ 601, 1100. (1do*, 2dx) Correlated observations. <i>Schreiber, M.R., Hameury, J.-M., Lasota, J.-P.</i> 2003, A&A 410, 239. (1boux*, 5i) <i>Wheatley, P.J., Mauche, C.W., Mattei, J.A.</i> 2003, MNRAS 345, 49. (1aoux, 5bgij) Flux evolution in X-rays and EUV.
CH Cyg	<i>Kotnik-Karuza, D., Jurdana-Šepić, R., Majlinger, Z.</i> 2004, Baltic Astronomy 13, 148. (2cio) Molecular spectroscopy in the 1998-2000 active phase.
V404 Cyg	<i>Shahbaz, T. et al.</i> (8 authors) 2003, MNRAS 346, 1116. (1ao, 5bgi) Flare activity and QPOs.
V407 Cyg	<i>Tatarnikova, A.A. et al.</i> (6 authors) 2003, MNRAS 344, 1233. (2coi, 5gh) Identification of lithium and possible explanation.
V477 Cyg	<i>Değirmenci, Ö.L.</i> (5 authors) 2003, A&A 409, 959. (1bo, 5abc)
V1016 Cyg	<i>Lee, H-W. et al.</i> (4 authors) 2003, ApJ 598, 553. (2do) Raman scattering by atomic hyrdrogen.
V1341 Cyg (Cyg X-2)	<i>Dubus, G.</i> 2004, MNRAS 347, 1217. (1abox, 5g) Simultaneous optical and X-ray high-speed photometry. <i>Natalucci, L. et al.</i> (7 authors) 2003, A&A 411, L395. (1ag)
V1357 Cyg (Cyg X-1)	<i>Feng, Y.X., Tennant, A.F., Zhang, S.N.</i> 2003, ApJ 597, 1017. (2dx) Probing the inflow/outflow of AD. <i>Filho, C.M. et al.</i> (4 authors) 2003, ApJ 595, 322. (8) Pion production modeled in the inner AD.
V1500 Cyg	<i>Pottschmidt, K. et al.</i> (14 authors) (1agx) RXTE and INTEGRAL observations.
V1521 Cyg (Cyg X-3)	<i>Ramsay, G., Cropper, M.</i> 2004, MNRAS 347, 497. (1x, 5gi) Energy balance revisited. <i>Goldoni, P. et al.</i> (4 authors) 2003, A&A 411, L399. (1ag) <i>Miller-Jones, J.C.A. et al.</i> (6 authors) 2004, ApJ 600, 368. (1r, 2r) Flare observations.

V2150 Cyg	<i>Vilhu, O. et al.</i> (13 authors) 2003, A&A 411, L405. (1agx, 2dg)
V2246 Cyg (EXO 2030+375)	<i>Kreiner, J.M. et al.</i> (13 authors) 2003, A&A 412, 465. (1bo, 2ao*, 5e) <i>Martínez Núñez, S. et al.</i> (6 authors) 2003, A&A 411, L411. (1ax)
V2274 Cyg (Nova 2001)	<i>Rudy, R.J. et al.</i> (8 authors) 2003, ApJ 596, 1229. (2di) CO emission.
HR Del	<i>Harman, D.J., O'Brien, T.J.</i> 2003, MNRAS 344, 1219. (1ao, 2c, 5eg, 8b) Bipolar structure of the ejected shell.
AB Dor	<i>Donati, J.-F., Collier Cameron, A., Petit, P.</i> 2003, MNRAS 345, 1187. (3b, 5eg, 8a) Detection of temporal fluctuation in the differential rotation.
4 Dra	<i>Wheatley, P.J., Mukai, K., de Martino, D.</i> 2003, MNRAS 346, 855. (1ax, 2x, 5bgj) X-ray emission suggests a symbiotic binary.
AG Dra	2003, IAU Circ. 8217 (1r) Radio fluxes of symbiotic star. 2003, IAU Circ. 8219 (1d) Small optical outburst.
DO Dra	<i>Gális, R., Hric, L., Petrík, K.</i> 2004, Baltic Astronomy 13, 132. (1a, 2a) Long-term behaviour and the presence of a second period.
IX Dra	<i>Leedjärv, L. et al.</i> 2004, A&A 415, 273. (1bo, 2ao, 5c) Emission lines in symbiotic star.
XZ Eri	2004, IAU Circ. 8274 (1d) First outburst since 2000.
CC Eri	<i>Olech, A. et al.</i> (6 authors) 2004, Acta Astronomica 54, 57. (1a, 5c) CURVE experiment - evolution of CV.
UV For	<i>Umemura, M. et al.</i> (13 authors) 2004, PASJ 56, S141. (1a) Discovery of superhumps in a deeply eclipsing SU UMa-type dwarf nova.
U Gem	<i>Slee, O.B. et al.</i> (6 authors) 2004, Publ. Astron. Soc. Australia 21, 72. (1or, 3b) A multiwavelength study of the activities.
GX Gem	<i>Morel, T. et al.</i> (5 authors) 2003, A&A 412, 495. (2c, 5gh) <i>Simon, V.</i> 2003, IBVS 5453. (1a, 5a) R band LC in outburst.
QW Gem	<i>Sánchez-Bajo, F. et al.</i> (9 authors), 2003, Astron. Nachr. 324, 511. (1aco*, 5abce).
CE Gru	<i>Kreiner, J.M. et al.</i> (13 authors) 2003, A&A 412, 465. (1bo, 2ao*, 5e) <i>Ramsay, G., Cropper, M.</i> 2004, MNRAS 347, 497. (1x, 5gi) Energy bal- ance revisited.
SZ Her	<i>Szekely, P.</i> 2003, IBVS 5467. (5abg) Photometric search for pulsations.
HZ Her (Her X-1)	<i>Bhatt, N., Paul, B., Koul, C.L.</i> 2003, Bull. Astron. Soc. India 31, 367. (1x*, 5ab) Orbital evolution.
V829 Her	<i>Leahy, D.A.</i> 2004, Astron. Nachr. 325, 205. (1x, 5i) Mapping shape of AD.
WW Hor	<i>Erdem, A., Ozkardes, B.</i> 2004, IBVS 5496. (5abc) BVR photometry. <i>Ramsay, G., Cropper, M.</i> 2004, MNRAS 347, 497. (1x, 5gi) Energy bal- ance revisited.
TT Hya	<i>Peters, G.J., Polidan, R.S.</i> 2004, Astron. Nachr. 325, 225. (2au, 5j) Eclipse mapping of circumstellar matter.
EX Hya	<i>Beuermann, K. et al.</i> (5 authors) 2003, A&A 412, 821. (4co, 5ei)
LQ Hya	<i>Donati, J.-F., Collier Cameron, A., Petit, P.</i> 2003, MNRAS 345, 1187. (3b, 5eg, 8a) Detection of temporal fluctuation in the differential rotation.
VW Hyi	<i>Pandel, D., Córdoba, F.A., Howell, S.B.</i> 2003, MNRAS 346, 1231. (1xu, 5bgij) Interpretation of X-ray and UV emission.

WX Hyi	<i>Perna, R. et al.</i> (5 authors) 2003, ApJ 598, 545. (2dx) Models of dwarf novae did not fit well.
X Leo	<i>Spogli, C. et al.</i> (8 authors) 2003, IBVS 5473. (1a) Observations of the dwarf nova.
AP Leo	<i>Kreiner, J.M. et al.</i> (13 authors) 2003, A&A 412, 465. (1bo, 2ao*, 5e)
GG Leo	<i>Ramsay, G. et al.</i> (5 authors) 2004, MNRAS 347, 95. (1xuo, 2bd, 5begi) <i>XMM-Newton</i> observations and modelling.
UW LMi	<i>Marrese, P.M. et al.</i> (8 authors) 2004, A&A 413, 635. (1ao*, 2ao, 5de)
UZ Lib	<i>Oláh, K., Jurcsik, J., Strassmeier, K.G.</i> 2003, A&A 410, 685. (1ao) Differential rotation from frequency spectrum.
CN Lyn	<i>Marrese, P.M. et al.</i> (8 authors) 2004, A&A 413, 635. (1ao*, 2ao, 5de)
SW Lyn	<i>Kreiner, J.M. et al.</i> (13 authors) 2003, A&A 412, 465. (1bo, 2ao*, 5e)
HM Mon	<i>Samec, R.G. et al.</i> (7 authors) 2004, IBVS 5506. (1a, 5abd, 6d) UBVRI CCD observations and period study.
V838 Mon	2003, IAU Circ. 8202 (1aio, 2o) Dramatic spectral changes. 2003, IAU Circ. 8210 (1a) Expanded light echo. 2003, IAU Circ. 8221 (1i, 2i) Power-law-like spectrum. 2003, IAU Circ. 8235 (1ai) 2003, IAU Circ. 8241 (1ai, 10b) 2003, IAU Circ. 8253 (1ao, 2b) Blending star behind? 2003, IAU Circ. 8256 (10) Not a real blending star.
TU Mus	<i>Terrell, D. et al.</i> (4 authors) 2003, AJ 126, 2988. (1ao, 2ado, 5bcde)
AB Nor	<i>Kato, T. et al.</i> (9 authors) 2004, MNRAS 347, 861. (1a, 5abg) Photometric study.
IM Nor	<i>Anupama, G.C.</i> 2003, Bull. Astron. Soc. India 31, 345. (2) Spectral change in the 2002 outburst.
V566 Oph	<i>Edalati, M.T., Shaarife, S.</i> 2004, Ap&SS 289, 169. (1ao, 5c)
V839 Oph	<i>Pazhouhesh, R., Edalati, M.T.</i> 2003, Ap&SS 288, 259. (1bo, 2ao*, 5e)
V840 Oph	<i>Schmidtobreick, L. et al.</i> (4 authors) 2003, A&A 410, 943. (1ao, 2co) Carbon rich old nova. <i>Schmidtobreick, L. et al.</i> (4 authors) 2004, Baltic Astronomy 13, 128. (1a, 2co) A carbon-rich nova.
V2134 Oph (MXB 1659–298)	<i>Sidoli, L., Parmar, A.N., Oosterbroek, T.</i> 2004, MmSAI 75, 480. (2cx)
V2051 Oph	<i>Baptista, R. et al.</i> (6 authors) 2003, MNRAS 345, 889. (1abo, 5abi) Cyclical period changes.
V1192 Ori (HD 31993)	<i>Strassmeier, K.G., Kratzwald, L., Weber, M.</i> 2003, A&A 408, 1103. (1bo, 2ao, 5cdg) Doppler imaging.
V347 Pav	<i>Ramsay, G. et al.</i> (5 authors) 2004, MNRAS 347, 95. (1xuo, 2bd, 5begi) <i>XMM-Newton</i> observations and modelling.
V349 Pav	<i>Ramsay, G., Cropper, M.</i> 2004, MNRAS 347, 497. (1x, 5gi) Energy balance revisited.
IP Peg	<i>Saito, R.K., Baptista, R., Horne, K.</i> 2004, Astron. Nachr. 325, 213. (2au, 5i) HST/FOS eclipse mapping in outburst.
$\beta$ Per	<i>Schmitt, J.H.M.M., Ness, J.U., Franco, G.</i> 2003, A&A 412, 849. (1x) Spatially resolved limb flare.
RY Per	<i>Peters, G.J., Polidan, R.S.</i> 2004, Astron. Nachr. 325, 225. (2au, 5j) Eclipse mapping of circumstellar matter.

CS Per	<i>Zakirov, M.M.</i> 2002, KFNT 18, 291. (1bo, 5bc) Mass and age estimates for binary in Perseus spiral arm.
GK Per	<i>Bode, M.F., O'Brian, T.J., Simpson, M.</i> 2004, ApJ 600, L63. (1a) Past echos and superluminal motion.
IK Per	<i>Zhu, L., Qian, S., Xiang, F.</i> 2003, IBVS 5486. (1a, 5a, 6d) CCD LC and orbital period change.
V436 Per	<i>Janik, J. et al.</i> (12 authors) 2003, A&A 408, 611. (1ao, 2ao, 5cdef) Search for forced oscillations.
AE Phe	<i>Barnes, J.R. et al.</i> (4 authors) 2004, Astron. Nachr. 325, 233. (2ao, 5d) Phase-resolved Doppler imaging of starspot features. <i>Barnes, J.R. et al.</i> (4 authors) 2004, MNRAS 348, 1321. (2aco, 5de, 7d) High-resolution Doppler imaging.
SZ Psc	<i>Kang, Y.W. et al.</i> (4 authors) 2003, MNRAS 344, 1227. (1bo, 2acu, 5cdeg) Chromospheric activity and modelling.
DV Psc (GSC 0008.324)	<i>Salehi, F., Edalati, M.T.</i> 2003, Ap&SS 288, 217. (1bo, 5bc)
EI Psc (1RXS J232953.9+062814)	<i>Zhou, A., Qiu, Y.</i> 2003, Ap&SS 288, 327. (1ao) Nova time evolution study.
V445 Pup	<i>Ashok, N.M., Banerjee, D.P.K.</i> 2003, A&A 409, 1007. (1bi, 2ci) Possible helium nova. <i>Ashok, N.M., Banerjee, D.P.K.</i> 2003, Bull. Astron. Soc. India 31, 343. (2i) Absence of hydrogen lines in <i>JHK</i> bands. <i>Kato, M., Hachisu, I.</i> 2003, ApJ 598, L107. (5ej, 8d) Theoretical light curves of helium novae compared to 2000 outburst. 2004, IAU Circ. 8278 (2cdi) Doubled He-profiles.
VX Pyx	<i>Morel, T. et al.</i> (5 authors) 2003, A&A 412, 495. (2c,5gh)
V Sge	<i>Hachisu, I., Kato, M.</i> 2003, ApJ 598, 527. (8ac) Model to explain light curves is presented.
WZ Sge	<i>Kato, T.</i> 2004, PASJ 56, S133. (1) A different state of recurring variations: a gradual rise and a sudden drop in brightness. <i>Godon, P. et al.</i> (8 Authors) 2004, ApJ 602, 336. (1u) Heating and cooling behaviour following 2001 outburst. <i>Howell, S.B., Harrison, T.E., Szkody, P.</i> 2004, ApJ 602, L49. (2r, 5i) Molecular emission from accretion disk. <i>Nogami, D., Iijima, T.</i> 2004, PASJ 56, S163. (1, 2o) Dramatic spectral evolution during the 2001 superoutburst. <i>Welsh, W.F. et al.</i> (7 authors) 2003, ApJ 599, 509. (2du) Observations of UV oscillations during decline from outburst.
V356 Sgr	<i>Peters, G.J., Polidan, R.S.</i> 2004, Astron. Nachr. 325, 225 (2au, 5j) Eclipse mapping of circumstellar matter.
V4140 Sgr	<i>Baptista, R. et al.</i> (6 authors) 2003, MNRAS 345, 889. (1abo, 5abi) Cyclical period changes.
V4332 Sgr	<i>Banerjee, D.P.K. et al.</i> (4 authors) 2003, ApJ 598, L31. (1bi, 2di, 8b) Recent remarkable changes in the IR spectrum.
V4444 Sgr	<i>Kato, T., Yamaoka, H., Kiyota, S.</i> 2004, PASJ 56, S83. (1) Possible nature as a recurrent nova.
V4580 Sgr (SAX J1808.4–3658)	<i>Uttley, P.</i> 2004, MNRAS 347, L61. (5gi, 8bc) On the origin of X-ray variability.

V4641 Sgr	<i>Umemura, M. et al.</i> (22 authors) 2004, PASJ 56, S61. (1) Detailed properties of light changes during the outburst and the post-outburst active phase in 2002.
V5113 Sgr	2003, IAU Circ. 8204 (1ac, 2co, 6b) Confirmed discovery of nova. 2003, IAU Circ. 8206 (1acd) New magnitudes and designation.
T Sco (Nova 1860)	<i>Heinke, C.O. et al.</i> (7 authors) 2003, ApJ 598, 516. (2dx, 6b) 2 new LMXB's and 5 CV's - one CV may be T Sco.
U Sco	2004, IAU Circ. 8279 (1c*) Discovery of an old outburst.
AK Sco	<i>Alencar, S.H.P. et al.</i> (7 authors) 2003, A&A 409, 1037. (1bo, 2ao, 5de)
MM Sco	<i>Kato, T. et al.</i> (9 authors) 2004, MNRAS 347, 861. (1a, 5abg) Photometric study.
MM Ser (Ser X-1)	<i>Hynes, R.I. et al.</i> (7 authors) 2004, MNRAS 348, 100. (2co, 5gi, 6c) Spectroscopy of the optical counterpart.
QW Ser	<i>Nogami, D. et al.</i> (14 authors) 2004, PASJ 56, S99. (1) Recognition of the SU UMa nature.
RZ Tau	<i>Yang, Y., Liu, Q.</i> 2003, AJ 126, 1960. (1ao, 2ao*, 5abcde)
CU Tau	<i>Yang, Y., Liu, Q.</i> 2004, Ap&SS 289, 137. (1ao, 5bc)
EQ Tau	<i>Vaňko, M. et al.</i> (4 authors) 2004, Baltic Astronomy 13, 151. (1a, 2a*, 5ce) A LC analysis and the absolute parameters.
V471 Tau	<i>Still, M., Hussain, G.</i> 2003, ApJ 597, 1059. (2dx) Coronal elemental abundance of companion. <i>Walter, F.M.</i> 2004, Astron. Nachr. 325, 241. (2au, 5g) Small scale structure in K star atmosphere.
V1128 Tau	<i>Taş, G.</i> (4 authors) 2003, A&A 411, 161. (1bo, 5c)
QS Tel	<i>Romero-Colmenero, E., Potter, S.B., Buckley, D.A.H.</i> 2004, Astron. Nachr. 325, 214. (2ao, 3bo, 5i).
SU UMa	<i>Kato, T.</i> 2004, PASJ 56, S55. (1) Detection of a short fading episode.
UX UMa	<i>Pratt, G.W. et al.</i> (5 authors) 2004, MNRAS 348, L49. (2cx, 5gh) Two components in the X-ray emission.
BZ UMa	2004, IAU Circ. 8294 (1ad) First outburst since 2002.
DW UMa	<i>Hoard, D.W. et al.</i> (5 authors) 2003, AJ 126, 2473. (2cd, 5ij)
EU UMa	<i>Ramsay, G. et al.</i> (5 authors) 2004, MNRAS 347, 95. (1xuo, 2bd, 5begi) <i>XMM-Newton</i> observations and modelling.
KV UMa (XTE J1118+480)	<i>Chaty, S. et al.</i> (6 authors) 2003, MNRAS 346, 689. (2imorux, 5i, 8ab) Modelling the high-energy emission. <i>Hynes, R.I. et al.</i> (9 authors) 2003, MNRAS 345, 292. (1aioux, 2bc, 5b) Short-time-scale multiwavelength variability.
IN Vel	<i>Morel, T. et al.</i> (5 authors) 2003, A&A 412, 495. (2c,5gh)
BH Vir	<i>Xiang, F.Y.</i> 2004, Ap&SS 289, 71. (1bo, 5c)
HW Vir	<i>İbanoğlu, C. et al.</i> (4 authors) 2004, A&A 414, 1043. (1bo, 5bcf)
IS Vir	<i>Morel, T. et al.</i> (5 authors) 2003, A&A 412, 495. (2c,5gh)
NN Vir	<i>Djurašević, G. et al.</i> (4 authors) 2004, A&A 415, 283. (1bo, 5c)
OU Vir	<i>Feline, W.J. et al.</i> (6 authors) 2004, MNRAS 347, 1173. (1ao, 5abceg) High-speed photometry and modelling.
UY Vol (EXO 0748–676)	<i>Bonnet-Bidaud, J.M., Haberl, F.</i> 2004, MmSAI 75, 484. (1x, 5i) <i>Homan, J., Wijnands, R., van den Berg, M.</i> 2003, A&A 412, 799. (1x*,5i) First detection of X-ray eclipse.

BP Vul  
 ER Vul  
*Lacy, C.H.S. et al.* (4 authors) 2003, AJ 126, 1905. (1ao, 2ao, 5abcde)  
*Harmanec, P. et al.* (4 authors) 2004, A&A 415, 289. (1abo, 1abo\*, 5b)  
 Rapid variations.

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

- HR 1099  
*Donati, J.-F. et al.* (11 authors) 2003, MNRAS 345, 1145. (1ab, 5g, 8a)  
 Dynamo processes and activity cycles.  
*Donati, J.-F., Collier Cameron, A., Petit, P.* 2003, MNRAS 345, 1187.  
 (3b, 5eg, 8a) Detection of temporal fluctuation in the differential rotation.  
*Petit, P. et al.* (11 authors) 2004, MNRAS 348, 1175. (3b, 5g, 8ac)  
 Magnetic topology and surface differential rotation.
- HD 861  
*Budaj, J. et al.* (6 authors) 2004, IBVS 5509. (2ac) Discovery of secondary  
 in spectrum SB1.
- HD 19684  
*Kaye, A.B., Fekel, F.C.* 2003, IBVS 5465. (2a, 5d)  $\gamma$  Dor SB variable.
- HD 29608  
*Tomkin, J.* 2003, Observatory 123, 372. (2ao, 5d) Three-spectrum triple  
 system.  
 (see V1192 Ori)
- HD 31993  
*Budaj, J., Iliev, I. Kh.* 2003, MNRAS 346, 27. (2ac, 5cgh) Abundance  
 anomalies driven by tidal interactions.
- HD 33254  
*Arellano Ferro, A., Giridhar, S.* 2003, A&A 408, L29. (2ao) New T Tauri  
 SB2.
- HD 34700  
*Torres, G.* 2004, AJ 127, 1187. (2ao, 5dk) Young solar-type SB2.
- HD 153527  
*Griffin, R.F.* 2003, Observatory 123, 301. (2ao, 5d) Radial velocities from  
 resolved spectra of VB near periastron.
- HD 153919  
 (4U 1700–377)  
*Hong, J-S, Hailey, C.J.* 2004, ApJ 600, 743. (1x, 5i) 13.8-day periodicity  
 thought to be due to precession of disk.
- HD 159176  
*De Becker, M. et al.* (7 authors) 2004, A&A 416, 221. (1x) Wind-wind  
 interaction.
- HD 165553  
*Goswami, A., Kameswara, N., Lambert, D.L.* 2003 Bull. Astron. Soc. India 31, 341. (2d,5g) A spectral analysis of a suspected SB.
- HD 178449  
*Budaj, J., Iliev, I. Kh.* 2003, MNRAS 346, 27. (2ac, 5cgh) Abundance  
 anomalies driven by tidal interactions.
- HD 198391  
*Budaj, J., Iliev, I. Kh.* 2003, MNRAS 346, 27. (2ac, 5cgh) Abundance  
 anomalies driven by tidal interactions.
- HD 207651  
*Henry, G.W., Fekel, F.C., Henry, S.M.* 2004, AJ 127, 1720. (1bo, 2ao,  
 5d) Triple system with  $\delta$  Sct primary.

## X-ray sources with constellation names

- Aql X-1  
 (see V1333 Aql)  
 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)

Ser X-1

(see MM Ser)

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### Object names including RA and DEC

AX J0049.4–7323	<i>Cowley, A.P., Schmidtke, P.C.</i> 2003, AJ 126, 2499. (1ao, 5bik) Be + neutron star binary.
XTE J0111.2–7317	<i>Coe, M.J. et al.</i> (4 authors) 2003, MNRAS 344, 1075. (1aoix, 2c, 5cg) Observed characteristics of the nebula-embedded X-ray binary.
XTE J0421+560	(see CI Cam)
GRO J0422+32	<i>Gelino, D.M., Harrison, T.E.</i> 2003, ApJ 599, 1254. (1aoi, 5ce) Lowest mass black hole ( $4 M_{\odot}$ )?
2MASS J05162881+260738	<i>Schuh, S.L. et al.</i> (25 authors) 2003, A&A 410, 649. (1aoi, 2doi, 5ce) First eclipsing K dwarf + BD.
PSR J0609+2130	<i>Lorimer, D.R. et al.</i> (9 authors) 2004, MNRAS 347, L21. (1r, 5be, 6b) A disrupted binary pulsar.
4U 0614+09	<i>Nelemans, G. et al.</i> (4 authors) 2004, MNRAS 348, L7. (2co, 5dg) Evidence for ultra-compact nature.
PSR J0737–3039	<i>Willems, B., Kalogera, V.</i> 2004, ApJ 603, L101. (5e) Constraints on the formation of a double pulsar system.
EXO 0748–676	(see UY Vol)
RX J0806.3+1527	<i>Israel, G.L. et al.</i> (10 authors) 2003, ApJ 598, 492. (2dox) Near-simultaneous X-ray and optical observations.
2S 0918–549	<i>Juett, A., Chakrabarty, D.</i> 2003, ApJ 599, 498. (2cdx, 8b) Evidence of neon-rich degenerate companion. <i>Nelemans, G. et al.</i> (4 authors) 2004, MNRAS 348, L7. (2co, 5dg) Evidence for ultra-compact nature.
XTE J0929–314	<i>Deloye, C.J., Bildsten, L.</i> 2003, ApJ 598, 1217. (8c) Comparison of mass-radius relation to constrain composition of WD.
XTE J1118+480	(see KV UMa)
J1141–6545	<i>Bailes, M. et al.</i> (4 authors) 2003, ApJ 595, L49. (2dr, 5e, 8) General relativity applied, mass suggests WD companion.
PSR 1259–63	2004, IAU Circ. 8300 (1g) High energy gamma-rays from binary pulsar.
EC 13471–1258	<i>O'Donoghue, D. et al.</i> (8 authors) 2003, MNRAS 345, 506. (1abo, 2abcu, 5abcdegh) Modelling and evolutionary study.
4U 1543–624	<i>Juett, A., Chakrabarty, D.</i> 2003, ApJ 599, 498. (2cdx, 8b) Evidence of neon-rich degenerate companion. <i>Nelemans, G. et al.</i> (4 authors) 2004, MNRAS 348, L7. (2co, 5dg) Evidence for ultra-compact nature.
4U 1608–52	<i>van Straaten, S., van der Klis, M., Méndez, M.</i> 2003, ApJ 596, 1155. (2dx, 8) Several models unsuccessfully applied to this atoll source.
SDSS J161033.64–010223.3	<i>Woudt, P.A., Warner, B.</i> 2004, MNRAS 348, 599. (1ao, 5bg) Non radial pulsating primary.
PSR B1620–26	<i>Richer, H.B. et al.</i> (4 authors) 2003, ApJ 597, L45. (4a) Improved astrometry strengthens coincidence.
1RXS J162848.1–415241 (GSC 7861.1088)	2004, IAU Circ. 8275 (1r, 4a) Strong radio outbursts.
IGR J16318–4848	<i>Walter, R. et al.</i> (11 authors) 2003, A&A 411, L427. (1agx)

IGR J16358–4726	<i>Patel, S.K. et al.</i> (13 authors) 2004, ApJ 602, L45. (1x*) A compact LMXB?
MXB 1659–298	(see V2134 Oph)
4U 1700–377	(see HD 153919)
XTE J1720–318	<i>Nagata, T. et al.</i> (18 authors) 2003 PASJ, 55, L73. (1i, 6c) Infrared counterpart of the x-ray nova.
4U 1728–34 (GX 354-0)	<i>Migliari, S., van der Klis, M., Fender, R.P.</i> 2003, MNRAS 345, L35. Study of QPOs (1bx, 5bi).
COM J1740–5340	<i>Lucy, L.B.</i> 2003, A&A 409, 737. He line formation in millisecond pulsar companion.
GRS 1741.9–2853	<i>Muno, M.P., Baganoff, F.K., Arabadjis, J.S.</i> 2003, ApJ 598, 474. (2dx) Observed in outburst and in quiescence.
H 1743–322	<i>Parmar, A.N. et al.</i> (8 authors) 2003, A&A 411, L421. (1ag, 2dg)
XB 1746–371	<i>Balucińska-Church, M., Church, M.J., Smale, A.P.</i> 2004, MNRAS 347, 334. (1bx, 5bg) New orbital period, X-ray bursting and flare activity.
GRS 1747–312	<i>in't Zand, J.J.M. et al.</i> (4 authors) 2003, A&A 209, 659. (2dx) Type-I X-ray burst.
SAX J1747.0–2853	<i>Werner, N. et al.</i> (9 authors) 2004, A&A 416, 311. (1x) Spectral evolution. <i>Werner, N. et al.</i> (9 authors) 2004, Baltic Astronomy 13, 163. (1x*) The transition from outburst to low level activity.
SAXJ1748.9–2021	<i>Kaaret, P. et al.</i> (7 authors) 2003, ApJ 598, 481. (2dx) Millisecond oscillations in an X-ray burst.
XTE J1751–305	<i>Deloye, C.J., Bildsten, L.</i> 2003, ApJ 598, 1217. (8c) Comparison of mass-radius relation to constrain composition of WD.
IGR J17544–2619	2003, IAU Circ. 8202 (1x) Pre-discovery detection.
SAX J1802.7–2017	<i>Augello, G. et al.</i> (7 authors) 2003, ApJ 596, L63. (2dx, 6b) Discovery - probably a HMXRB transient.
XTE J1807–294	<i>Deloye, C.J., Bildsten, L.</i> 2003, ApJ 598, 1217. (8c) Comparison of mass-radius relation to constrain composition of WD.
SAX J1808.4–3658	(see V4580 Sgr)
XTE J1814–338	<i>Strohmayer, T.E. et al.</i> (4 authors) 2003, ApJ 596, L67. (2dx) Inferred distance of 8 kpc.
4U 1820–30	<i>Ballantyne, D.R., Strohmayer, T.E.</i> 2004, ApJ 602, L105. (1x, 5i) <i>Cumming, A.</i> 2003, ApJ 595, 1077. (8) Ignition models for type I bursts.
XTE J1859+226	<i>Umemura, M. et al.</i> (7 authors) 2004, PASJ 56, S147. (1a) An optical reflare associated with an x-ray reflare after the 1999 outburst maximum.
PSR J1909–3744	<i>Jacoby, B.A. et al.</i> (7 authors) 2004, ApJ 599, L99. (1r, 2o) Binary ms pulsar.
PSR J1911–5958A	<i>Bassa, C.G. et al.</i> (4 authors) 2003, A&A 409, L31. (6c) <i>Ferraro, F.R. et al.</i> (4 authors) 2003, ApJ 596, L211. (1a,6c) Companion is helium WD.
GRS 1915+105	(see V1487 Aql)
XB 1916–053	<i>Church, M.J., Balucińska-Church</i> 2004, MNRAS 348, 955. (1x*, 5cgi, 8ac) Measurements of accretion disc corona size.
EXO 2030+375	(see V2246 Cyg)

RX J2115–58	<i>Ramsay, G., Cropper, M.</i> 2004, MNRAS 347, 497. (1x, 5gi) Energy balance revisited.
HE 2209–1444	<i>Karl, C.A. et al.</i> (7 authors) 2003, A&A 410, 663. (2au, 5de) Short period double degenerate.
1RXS J232953.9+062814	(see EI Psc)

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### Galactic objects with other designations

‘2003aw’	<i>Woudt, P.A., Warner, B.</i> 2003, MNRAS 345, 1266. (1abo, 5bgi) High speed photometry, variations in the rate of mass transfer.
47 Tuc AKO 9	<i>Knigge, C. et al.</i> (5 authors) 2004, ApJ 599, 1320. (1, 2i, 5bce) 1.1 day CV in 47 Tuc.
CAL 83	<i>Schmidtke, P.C. et al.</i> (5 authors) 2004, AJ 127, 469. (1ao*, 2adu, 5bc) Ephemeris from MACHO, RV from FUSE spectra.
CAL 86	<i>Kato, T. et al.</i> (9 authors) 2004, MNRAS 347, 861. (1a, 5abg) Photometric study.
GSC 0008.324	(see DV Psc)
GSC 4832.400	(see CW CMi)
GSC 7861.1088	(see 1RXS J162848.1–415241)
GX 13+1	<i>Corbet, R.H.D.</i> 2003, ApJ 595, 1086. (2dx) Peculiar spectral and timing features may be connected. <i>Sidoli, L., Parmar, A.N., Oosterbroek, T.</i> 2004, MmSAI 75, 480. (2cx)
GX 301-2	<i>Mukherjee, U., Paul, B.</i> 2003, Bull. Astron. Soc. India 31, 369. (2x) A partial covering absorber model.
GX 339-4	(see V821 Ara)
GX 349+2	<i>Agrawal, V.K., Sreekumar, P.</i> 2003, MNRAS 346, 933. (2x*, 5dgi) Investigation of X-ray spectral evolution. <i>Iaria, R. et al.</i> (7 authors) 2004, ApJ 600, 358. (12x) Disappearance of hard X-ray emission.
GX 354-0	(see 4U 1728-34)
LHS 4039/LHS 4040	<i>Scholz, R.-D. et al.</i> (7 authors) 2004, MNRAS 347, 685. (1aci, 2bci, 5g) Discovery of new dwarf companion.
M67 S986	<i>Sandquist, E.L., Shetrone, M.D.</i> 2003, AJ 126, 2954. (1ao, 2ado, 5bcek)
NGC 2264 KH 15D	<i>Agol, E. et al.</i> (4 authors) 2004, ApJ 600, 781. (1a, 2, 3b, 5i) <i>Winn, J.N. et al.</i> (5 authors) 2004, ApJ 603, L45. (1*, 8b) Gradual occultation of pre-main-sequence binary.
NSV 223	<i>Niarchos, P.G., Gazeas, K.D.</i> 2004, Baltic Astronomy 13, 138. (1a, 5bcd) A new ephemeris and a LC analysis.
NSV 10934	<i>Kato, T. et al.</i> (9 authors) 2004, MNRAS 347, 861. (1a, 5abg) Photometric study.
SS 433	(see V1343 Aql)
WR 7a	<i>Oliveira, A.S., Steiner, J.E., Cieslinski, D.</i> 2003, MNRAS 346, 963. (1ao, 2aco, 5abdg) Photometric and spectroscopic study.

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### Extragalactic variables, SN, x-ray sources

LMC X-2	<i>McGowan, K.E. et al.</i> (4 authors) 2003, MNRAS 345, 1039. (1aox, 5beh) Correlation between optical and X-ray variability.
LMC X-3	<i>Hutchings, J.B. et al.</i> (5 authors) 2003, AJ 126, 2368. (1x*, 2du, 5i) <i>Page, M.J. et al.</i> (6 authors) 2003, MNRAS 345, 639. (2cx, 5gij, 8b) <i>XMM-Newton RGS spectroscopy.</i>
LMC X-4	<i>Naik, S., Paul, B.</i> 2004, ApJ 600, 351. (1x, 2x) Pulsations in soft spectral component. <i>Naik, S., Paul, B.</i> 2003, Bull. Astron. Soc. India 31, 371. (2x) X-ray features from Beppo-SAX data.
SMC X-1	<i>Naik, S., Paul, B.</i> 2003, Bull. Astron. Soc. India 31, 371. (2x) X-ray features from Beppo-SAX data.
RX J0047.3–7312	<i>Ueno, M. et al.</i> (5 authors) 2004, PASJ 56, 175. (1x, 2x) Discovery of a peculiar pulsar in SMC.
RX J0042.6+4115	<i>Barnard, R., Kolb, U., Osborne, J.P.</i> 2003, A&A 411, 553. (1x) XMM-Newton observations of LMXB in M31.
Novae in M31	2003, IAU Circ. 8205 (6b) Discovery of possible nova. 2003, IAU Circ. 8210 (1a, 4a, 6b) Halfa magnitudes. 2003, IAU Circ. 8222 (1, 4a, 6b) Two possible new novae. 2003, IAU Circ. 8226 (1ad, 4a, 6b) Another apparent nova. 2003, IAU Circ. 8231 (2c) Confirmed nova. 2003, IAU Circ. 8238 (1o, 4a, 6b) Possible new nova. 2003, IAU Circ. 8248 (1o, 4a, 6b) Possible new nova. 2003, IAU Circ. 8249 (10b) 2003, IAU Circ. 8253 (1o, 4a, 6b) 2003, IAU Circ. 8254 (10b) 2004, IAU Circ. 8262 (1ac, 4a, 6b) New novae. 2004, IAU Circ. 8266 (1o) Additional magnitudes. <i>Joshi, Y.C. et al.</i> (6 authors) 2004, A&A 415, 471. (1ao) Photometric evolution.
Nova in M32	2004, IAU Circ. 8267 (1ao, 2co, 4a, 6b) Confirmed new nova.
Nova in M33	2003, IAU Circ. 8234 (2c) 'Fe II'-class nova.
B416 in M33	<i>Shoulukhova, O. et al.</i> (4 authors) 2004, Baltic Astronomy 13, 156. (2aco) A ring-like nebula around the star.
M 33 X-7	<i>Pietsch W. et al.</i> (6 authors) 2004, A&A 413, 879. (1x, 1o*)
X-R binary in NGC 55	<i>Stobart, A.-M., Roberts, T.P., Warwick, R.S.</i> 2004, MmSAI 75, 496. (1x, 6b)
Nova in NGC 205	2004, IAU Circ. 8272 (1o, 4a, 6b) Possible new nova.

## General

*Adams, T., Davies, M.B., Sills, A.* 2004, MNRAS 348, 469. On the origin of red giant depletion through low-velocity collisions.

*Alexakis, A. et al.* (13 authors) 2004, ApJ 602, 931. Heavy-element enrichment of novae. (8)

*Althaus, L.G. et al.* (6 authors) 2004, MNRAS 347, 125. Evolution and pulsational properties of low-mass white dwarf stars with oxygen cores resulting from close binary evolution.

*Arzner, K., Güdel, M.* 2004, ApJ 602, 363. Are coronae of magnetically active stars heated by flares? (8)

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*Cardini, D. et al.* (5 authors) 2003, A&A 408, 337. A study of the MgII 2796.34 Å emission line in late-type normal and RS CVn stars.

*Chu, Y.-H. et al.* (4 authors) 2004, AJ 127, 477. Search for hard x-ray emission associated with WDs.

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Cep, RZ Com, RZ Com, SS Com, CC Com, EQ Com, LL Com, RW CrB, TW CrB, WZ Cyg, ZZ Cyg, BR Cyg, CV Cyg, KR Cyg, NZ Cyg, V346 Cyg, V454 Cyg, V488 Cyg, V493 Cyg, V501 Cyg, V505 Cyg, V628 Cyg, V651 Cyg, V704 Cyg, V940 Cyg, V981 Cyg, V1196 Cyg, V1411 Cyg, V2181 Cyg, YY Del, TW Dra, TZ Dra, AI Dra, AR Dra, AU Dra, AX Dra, BE Dra, BU Dra, BX Dra, EF Dra, AH Gem, AI Gem, AZ Gem, EY Gem, FG Gem, GX Gem, HR Gem, KQ Gem, KV Gem, MR Gem, TX Her, AK Her, DK Her, LT Her, MS Her, V338 Her, V502 Her, V718 Her, V728 Her, V733 Her, V842 Her, WY Hya, SW Lac, TW Lac, ZZ Lac, AG Lac, CO Lac, EM Lac, HR Lac, IM Lac, IM Lac, IP Lac, IU Lac, IZ Lac, NR Lac, V342 Lac, V344 Lac, V441 Lac, Y Leo, UV Leo, WZ Leo, XX Leo, XY Leo, XZ Leo, AL Leo, AM Leo, CE Leo, T LMi, RT LMi, KQ Lib, SW Lyn, SX Lyn, TY Lyn, CD Lyn, DE Lyn, TZ Lyr, EW Lyr, FL Lyr, V406 Lyr, RW Mon, HM Mon, IZ Mon, NS Mon, V395 Mon, V496 Mon, V714 Mon, U Oph, V449 Oph, V2357 Oph, EF Ori, EW Ori, FT Ori, GU Ori, V648 Ori, V1633 Ori, U Peg, VW Peg, BX Peg, BY Peg, CC Peg, CF Peg, DI Peg, DK Peg, EU Peg, KW Peg, ST Per, AG Per, HW Per, II Per, IK Per, IQ Per, KW Per, PS Per, V462 Per, V482 Per, AU Ser, CC Ser, LX Ser, VY Sex, AH Tau, AL Tau, AM Tau, CU Tau, EN Tau, EQ Tau, GR Tau, GSC0669.0674 Tau, GSC1830.1432 Tau, RV Tri, W UMa, TX UMa, TY UMa, UY UMa, XY UMa, XZ UMa, ZZ UMa, AA UMa, W UMi, RZ UMi, AH Vir, AW Vir, BH Vir, CG Vir, HW Vir, BK Vul, FR Vul.

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*Otero, S.A.* 2003, IBVS 5482. (5abf) Hipparcos EB showing apsidal motion: V366 Pup, PT Vel, V466 Car.

*Otero, S.A., Claus, F.* 2004, IBVS 5495. (5b) New elements for 80 EB: NSV 00470, NSV 00675, NSV 00728, NSV 01162, NSV 02571, NSV 02969, NSV 03180, NSV 03282, NSV 03305, NSV 03308, NSV 03433, NSV 03497, NSV 03598, NSV 03613, NSV 03645, NSV 03682, NSV 03687, NSV 03702, NSV 03812, NSV 03836, NSV 03877, NSV 03920, NSV 04014, NSV 04057, NSV 04237, NSV 04245, NSV 04250, NSV 04253, NSV 04309, NSV 04341, NSV 04387, NSV 04451, NSV 04484, NSV 04657, NSV 04749, NSV 04871, NSV 05115, NSV 05128, NSV 05352, NSV 05369, NSV 05418, NSV 05466, NSV 05525, NSV 05640, NSV 05978, NSV 06073, NSV 06635, NSV 06792, NSV 06917, NSV 06959, NSV 07118, NSV 07355, NSV 07377, NSV 07642, NSV 08029, NSV 08110, NSV 08145, NSV 08720, NSV 08808, NSV 10456, NSV 10862, NSV 10915, NSV 12222, NSV 12502, NSV 13263, NSV 13331, NSV 13694, NSV 13702, NSV 13749, NSV 14254, NSV 14780, NSV 19977, NSV 20517, NSV 20859, NSV 22125, NSV 24021, NSV 24084, NT Vel, V0722 Mon, V4386 Sgr.

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No. 78, June 2004

Editor-in-Chief: C.D. Scarfe

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