

Publications year: 2003

1. Alcaino, G., Alvarado, F., Borissova, J., Kurtev, R., The Small Magellanic Cloud star cluster NGC 458. A new UBV photometric study, 2003, *A&A*, **400**, 917
2. Antov, A., Iliev, L., Konstantinova-Antova, R., Celebonovic, V., Bogdanovski, R., Tsvetkova, K., Golev, V., Peshev, P., Borisov, G., Popov, V., The South-Eastern European Summer School Astronomy with small telescopes, at Belogradchik Observatory, Bulgaria, 2003, Yeaching of Astromony in Asian-Pacific Region, bul. 19, pp. 31-32
3. Apostolovska, G., Bilkina, B., Ivanova, V., Observations of Minor planets, 2003, *MPC*, 48619, June 2003.
4. Apostolovska, G., Ivanova, V., Bilkina, B., Observations of Minor planets, 2003, *MPC*, 49841, Nov. 2003.
5. Barbieri, C., Blanco, C., Bucciarelli, B., Coluzzi, R., di Paola, A., Lanteri, L., Luca, L-Ci, G., Marilli, E., Massimino, P., Mezzalira, V., Mottola, S., Nesci, R., Omizzolo, A., Pedichini, F., Rampazzi, F., Rossi, C., Stagni, R., Tsvetkov, M., Viotti, R., Digitization and Scientific Exploitation of the Italian and Vatican Astronomical Plate Archives, 2003, *Experimental Astr.*, **15**, 29-43
6. Boffin, H. M. J., Stanishev, V., Kraicheva, Z., Genkov, V., A warped accretion disc in PX And?, 2003, *ASP Conf. Ser.* **292**, 297.
7. Bonev, B. P., Komitov, B. P., Penev, K. M., A long-term Solar Minimum in this Century. Evidence from Indirect Data and Optical Records, 2003, *SPD Conf. BAAS*, **34**, 1910
8. Borisova, A. P., Tsvetkov, M. K., Tsvetkova, K. P., Hambly, N., Kalaglarsky, D. G., Richter, G. M., Boehm, P., Kelemen, J., Fresneau, A., Argyle, R. W., Usage of the Photographic Plate Archives for Studying the Pleiades Flare Stars Long-Term Behavior, 2003, *Astron. and Astroph. Transactions, Proc. of the 6th General Meeting of the Euroasian Astronomical Society: International Collaboration in Astronomy*, Moscow, 25 May - 2 June 2002, 22, 487.
9. Borissova, J., Ivanov, V. D., Radial Distribution of Red Giant Branch Stars of Galactic Globular Clusters in 2MASS Database, 2003, *ASP Conf. Ser.*, **296**, 287
10. Budaj, J., Iliev, I. Kh., Barzova, I. S., Ziznovsky, J., Zverko, J., Stateva, I. Direct mass ratio determination in the SB2 systems HD108642 and HD434, 2003, *IBVS*, 5423, 1-4
11. Budaj, J., Iliev, I. Kh. Abundance analysis of Am binaries and search for tidally driven abundance anomalies I. HD33254, HD178449, HD198391, 2003, *MNRAS*, **346**, 27-36
12. Corwin, T. M., Catelan, M., Smith, H. A., Borissova, J., Ferraro, F. R., Raburn, W. S., M75, A Globular Cluster with a Trimodal Horizontal Branch. II. BV photometry of the RR Lyrae Variables, 2003, *AJ*, **125**, 2543
13. Dumitrescu, A., Iliev, L., Photometric Observations of the Contact Binary V2388Oph in 2001, 2003, *Rom. Astron. J.*, **13**, No1, 43-45
14. Georgiev T. B., Dwarf stellar systems – properties and problems, 2003, Collected papers, Physics, University of Shumen, 147-150

Publications year: 2003

15. Gogosheva, Ts. Petkov, B. Mendeva, B. Krastev. D., Dependence of Biologically Active UV Radiation on the Atmospheric Ozone in 2000 – 2001 over Stara Zagora, Bulgaria, 2003, *Compt. Rend. Acad. Bulg. Sci*, **56(8)**, 31-34
16. Graczyk, D., Mikolajewski, M., Tomov, T., Kolev, D., Iliev, I. The 2003 eclipse of EE Cep is coming. A review of past eclipses, 2003, *A&A*, **403**, 1089-1094
17. Grigorieva, V. N., Gogosheva, Ts. N., Variations in Surface Ozone Concentration during the Solar Eclipse on August 11, 1999. 2003, *Izvestiya RAN, Atmospheric and Oceanic Physics*, **vol. 39**, Suppl.1, pp S47-S50
18. Gulyaev R. A., Petrov N., Brightness of Calcium Emission Regions Associated with the Solar Material Sublimation in the Near Circumsolar Space, 2003, *Astron. Astrophys Transactions*, **vol. 22**, Nos. 4-5, 593.
19. Ivanov, V. D., Borissova, J., Red Giant Branch Stars as Probes of Stellar Populations: 2MASS Calibration and Application to 2MASS GC01, 2003, *ASP Conf. Ser.*, **296**, 217
20. Ivanova, V., Shkodrov, V., Apostolovska, G., Protic-Benishek, V., Investigation of Asteroids at the Bulgarian National Observatory: Results and Perspectives, 2003, *Pub. Astr. Obs. Belgrade*, **75**, 243-250
21. Kirilova, D., Overproduction of helium-4 in the presence of neutrino oscillations, 2003, *Astropart. Phys.*, **19**, 409-417
22. Kirilova, D., Primordial He-4 Overproduction due to neutrino oscillations, 2003, *Astron. Astrophys. Transactions*, **22**, 421-424
23. Kirilova, D., Baryon Density in alternative BBN, 2003, *Astron. Astrophys. Transactions*, **22**, 425-428
24. Kirilova, D., Baryogenesis Model Predicting Antimatter in the Universe, 2003, *Nucl. Phys. Proc. Suppl.*, **122**, 404-408
25. Kirilova, D. P., Neutrino oscillations and the early Universe, Proc. of the XIII National Conf. of Yugoslav Astronomers, 17-20 Oct. 2002, Belgrade, 2003, *Publ. Astron. Obs. Belgrade*, **75**, 167-178.
26. Kolev, D., Mikolajewski, M., Tomov, T., Iliev, I., Osiwala, J., Nirski, J., Galan, C. Peculiar outburst of the newly discovered variable star V838Mon, 2003, Collected Papers – Physics, Shumen University Press, 141-146
27. Koleva, V., Measuring time in the Central Rhodopes 2003, Calendars, Symbols, and Orientations: Legacies of Astronomy in Culture; Proc. of the 9th annual meeting of the European Society for Astronomy in Culture (SEAC), Stockholm, 27-30 August, 2001. M. Blomberg, P. E. Blomberg and G. Henriksson (eds.). Uppsala Astronomical Observatory Report No. 59. 41-44
28. Komitov, B., Kaflan, V., Solar Activity Variations for the Last Millennia. Will the Next Long-Period Solar Minimum be Formed?, 2003, *Geomagnetism and Aeronomy*, **43(5)**, 231-246
29. Marchenko, S. Moffat, A. F. J.; Panov, K., Seggewiss, W., Zubko, V. G., Unusual 2001

Publications year: 2003

periastron passage in the colliding-wind binary WR 140, 2003, in IAU Symp 212 A Massive Star Odyssey: From Main Sequence to Supernova, p.210

30. Marchenko, S. V., Moffat, A. F. J., Ballereau, D., Chauville, J., Zorec, J., Hill, G. M., Annuk, K., Corral, L. J., Demers, H., Eenens, P. R. J., Panov, K. P., Seggewiss, W., Thomson, J. R., Villar-Sbaffi, A., The Unusual 2001 Periastron Passage in the “clockwork” Colliding – Wind Binary WR 140, 2003, *ApJ*, 596, 1295.
31. Mikolajewski, M., Tomov, T., Graczyk, D., Kolev, D., Galan, C., Galazutdinov, G., The start of the 2003 eclipse of EE Cephei, 2003, *IBVS*, 5412, 1-4
32. Osiwa?a, J. P., Miko?ajewski, M., Tomov, T., Ga?an, C., Nirski, J., Kolev, D., Iliev, I., The Double Outburst of the Unique Object V383 Mon, 2003, *ASP Conf. Proc.*, **303**, p.240
33. Paunzen, E., Heiter, U., Iliev, I. Kh., Kamp, I., Weiss, W. W., The group of Lambda Bootis stars, 2003, *Recent Res. Devel. Astronomy and Astrophys.*, **1**, 1-37
34. Semkov, E. H., A Long-term Photometric Study of the PMS Star V 391 Cep, 2003, *IBVS*, 5373, 1-4
35. Semkov, E., GRB 030226 optical observations, 2003, *GCN Circ.* 1935
36. Semkov, E., GRB 030329 optical observations, 2003, *GCN Circ.* 2111
37. Semkov, E., GRB 030329 optical observations in Rozhen observatory, 2003, *GCN Circ.* 2179
38. Semkov, E. H., Photometric and spectroscopic study of V 1184 Tauri, 2003, *A&A*, **404**, 655
39. Semkov, E. H., Tree New PMS Variables in the Vicinity of NGC 7129, 2003, *IBVS*, 5406, 1-4
40. Stanchev, O. I., Two-dimensional structure of edge-on galaxies, 2003, Collected papers, Physics, University of Shumen, 151-157
41. Stateva, I., Georgiev, L., Carbon, Nitrogen, Oxygen Abundances in OB-Associations, Proc. of the 210 IAU Symp., Uppsala, Sweden, 17-21 June, 2002. Published by the Astronomical Society of the Pacific, 2003, p. E15
42. Stavrev, K. Y., On the Large-Scale Periodicity in the Spatial Distribution of Rich Clusters of Galaxies, 2003, *Pub. Astr. Obs. Belgrade*, **75**, 247
43. Tomov N., Taranova O., Tomova M., Mass ejection by the symbiotic binary Z And during its 2000-2002 outburst, 2003, *A&A*, **401**, 669 – 676
44. Tomov N., Tomova M., Zamanov R., Spectral Observations of Z Andromedae during Its 2000 Active Phase, 2003, in Symbiotic stars probing stellar evolution, eds. R. L. M. Corradi, J. Mikolajewska, and T. J. Mahoney, *ASP Conf. Ser.*, **303**, 254 ? 257
45. Torppa, J., Kaasalainen, M., Michalowski, T., Kwiatkowski, T., Kryszczy?ska, A., Denchev, P., Kowalski, R., Shapes and rotational properties of thirty asteroids from photometric data, 2003, *Icarus*, **164**, 346

Publications year: 2003

46. Umlenski, V., Bilkina, B., Marinov, A., Ivanova, V., Radeva, V., Elst, E., Observations of Minor planets, 2003, *MPC*, 49426, Sep. 2003.
47. Zamanov, R., Marziani, P., Stanishev, V., Tomov, N., Mass of white dwarf in T CrB and variability of accretion disk, 2003, in “White dwarfs”, eds. D. de Martino, R. Silvotti, J.-E. Solheim, and R. Kalytis, Kluwer. NATO Science Series II – Mathematics, *Physics and Chemistry*, v. **105**, p. 353
48. Zhilyaev, B. E., Romaniuk, Ya., Svyatogorov, O., Verlyuk, I., Alekseev, I., Lovkaya, M., Contadakis, M., Avgoloupis, S., Antov, A., Konstantinova-Antova, R., Fast UBVRI colorimetry of stellar flares on EV Lacertae, 2003, in: *Proc. of the Conference ASTROECO-2002*, Terskol, Russia, August 12-16, 2002, Kinematics and Physics of Celestial Bodies, Suppl. Ser., No.4, 30