

Publications year: 2001

1. Alekseev, I. Yu, Antov, A. P., Avgoloupis, S. J., Beskin, G. M., Borisov, N. V., Chalenko, V. E., Contadakis, M. E., Gershberg, R. E., Khalak, V. R., Konstantinova-Antova, R., K., Larionov, V. M., Panferova, I. P., Plokhotnichenko, V. L., Pustilnik, L. A., Romaniuk, Ya. O., Seiradakis, J. H., Sergeev, S. G., Svyatogorov, O. A., Verlyuk, I., Zhilyaev, B. E., 2001, *Kinematika i Fizika Nebesnih Tel*, **No.17**, 147-156
2. Antov, A. P., Pamukchiev, I. Ch., Svyatogorov, O. A., Bogdanovski, R. G., Parov, I. S., Kotsev, N. S., Konstantinova-Antova, R. K., Nasvadi, Y., New Bulgarian-Ukrainian Universal Photometer of the Belogradchik Astronomical Observatory, 2001, in: *Proc. of Balkan Meeting of Young Astronomers*, 25-29 Sept. 2000, Belogradchik, Bulgaria, A. Antov, R. Konstantinova-Antova, R. Bogdanovski and M. Tsvetkov (eds), 226
3. Antov, A. P., Bachev, R. S., Boeva, S. S., CCD Photometry of KR Aur with the 60 cm Telescope at Belogradchik Observatory, 2001, *AGM*, **18**, 30
4. Apostolovska, G., Ivanova, V., Spirovski, G., Bilkina, B., Observations of comets, 2001, *Apr.*, *MPC*, **42432**.
5. Bachev, R., Search for microvariability in Seyfert galaxies, 2001, in: *Proc. of Balkan Meeting of Young Astronomers*, 25-29 Sept. 2000, Belogradchik, Bulgaria, A. Antov, R. Konstantinova-Antova, R. Bogdanovski and M. Tsvetkov (eds), 84
6. Baev, P. V., Markov, H., Spassova, N., UBV stellar photometry of bright stars in GC M5 - II. Physical parameters of horizontal branch stars, 2001, *MNRAS*, **328**, 944-950
7. Bilkina, B., Ivanova, V., Apostolovska, G., Borisov, G., Follow up observations of asteroids, 2001, Nov. *MPC*, **43832**
8. Bochev, A. Z., Dermendjiev, V. N., Koleva, K., Forcing of the Magnetosphere and Ionsphere by Strongly Magnetized Solar Plasmoid on 06 – 07 April, 2000, 2001, *Compt. Rend. Acad. Bulg. Sci.*, **54(1)**, 39.
9. Bonev, T., Jockers, K., Korsun, P., Karpov, N., Sergeev, A., H₂O⁺ and CO⁺ in Comet C/1999 J3 (LINEAR), 2001, *Bulg. J. Phys.*, **27**, 50-53
10. Borisov, G., Bonev, T., Tsvetkov, M., A Leonid Meteor Spectrum Obtained during the 1999 Campaign, 2001, *Proc. of Intern. Meteor Conf.*, Pucioasa. 2000, p. 27-30
11. Borisov, G., Ivanova, A., Bonev, T., Photometry of the near nucleus dust distribution in comet C/1999 S4 (LINEAR), *Bulg. J. Phys.*, **27**, 58-61
12. Borisov, G., Bonev, T., Ivanova, A., Photometry of the near nucleus dust distribution in comet C/1999 S4 (LINEAR), 2001, in: *Proc. of Balkan Meeting of Young Astronomers*, 25-29 Sept. 2000, Belogradchik, Bulgaria, A. Antov, R. Konstantinova-Antova, R. Bogdanovski and M. Tsvetkov (eds), p. 178
13. Borisov, G.; Bonev, T.; Tsvetkov, M., A Leonid meteor spectrum obtained during the 1999 campaign, 2001, in: *Proc. of Balkan Meeting of Young Astronomers*, 25-29 Sept. 2000, Belogradchik, Bulgaria, A. Antov, R. Konstantinova-Antova, R. Bogdanovski and M. Tsvetkov (eds), p. 173

Publications year: 2001

14. Borissova, J., Catelan, M., Valchev, T., The outer-halo globular cluster NGC 6229 - IV. Variable stars, 2001, *MNRAS*, **324**, 77
15. Brosch, N., Hudec, R., Kroll, P., Tsvetkov, M., Saving Astronomical Treasures, 2001, *ASP Conf. Ser.*, **232**, 265.
16. Busemann, H., Altwegg, K., Binns, R., Chiappini, C., Glockler, G., Hoppe, P., Kirilova, D., Leske, R., Manuel, O., Mewaldt, R., Mobius E., Suess, S., Wieler, R., Wiens, R., Wimmer R., Yanasak, N., Applications of Abundance Data and Requirements for Cosmochemical Modeling, 2001, AIP Conf. Proc., *SOHO-ACE Workshop "Solar and Galactic Composition"*, Bern, 6-9 March, 357-379.
17. Corwin, T. M., Catelan, M., Smith, H. A., Borissova, J., Ferraro, F. R., BV Photometry of the RR Lyrae Variables in the Globular Cluster M75, 2001, *Bul. of AAS*, **199**, 5615
18. de Cuyper, J.-P., Elst, E., Hensberge, H., Lampens, P., Pauwels, T., van Dessel, E., Brosch, N., Hudec, R., Kroll, P., Tsvetkov, M., The Uccle Direct Astronomical Plate Archive Centre UDAPAC-- A New International Facility for Inherited Observations, 2001, *ASP Conf. Ser.*, **238**, 125
19. Dechev, M. Ts., Solar Physics and Neutrino Problem, 2001, in: *Proc. of Balkan Meeting of Young Astronomers*, 25-29 Sept. 2000, Belogradchik, Bulgaria, A. Antov, R. Konstantinova-Antova, R. Bogdanovski and M. Tsvetkov (eds), p. 155.
20. Dermendjiev, V. N., Petrov, N. I., Detchev, M., Rompolt, B., Rudawy, P., Line of Sight Velocity Fluctuations of a Quiescent Prominence, 2001, *Solar Phys.*, **202**, 99.
21. Duchlev, P. I., A Statistical Analysis of Faint H – alpha Coronal Emission, Associated with Prominences, 2001, *Solar Phys.*, **199**, 107.
22. Duchlev, P. I., An Estimation of Long-Term Variation of North-South Asymmetry of the Long-lived Solar Filaments, 2001, *Solar Phys.*, **199**, 211.
23. Duchlev, P. I., Development of Solar Physics in Bulgaria, 2001, in *Solar Researches in the South-Eastern European Countries: Present and Perspectives*, G. Maris and M. Messerotti (eds.), Regional Meeting on Solar Physics, 24-28 April, 2001, Buharest, Romania, p. 152.
24. Duchlev, P. I., North-South Asymmetry of the Long-Lived Solar Filaments, 2001, in *Solar Researches in the South-Eastern European Countries: Present and Perspectives*, G. Maris and M. Messerotti (eds.), Regional Meeting on Solar Physics, 24-28 April, 2001, Buharest, Romania, 87.
25. Efremova, B., Golev, V., Bonev, T., Narrow-band Imaging of the Wind-blow Bubbles NGC 2359 and NGC 7635, 2001, *Bulg. J. Phys.*, **27**, 62-65
26. Friedjung, M., Muratorio, G., Markova, N., Israelian, G., A study of the wind of P Cygni applying the self-absorption-curve method, 2001, *ASP Conf. Ser.*, **233**, 113
27. Georgiev, T. B., Atanasova, E. G., Velitchkov, M. T., Color-magnitude diagram and distance to the galaxy UGC 1281, 2001, *Compt. Rend. Acad. Bulg. Sci.*, **54(1)**, 5-8

Publications year: 2001

28. Goranova, Yu. Panov, K., UBV – Photometry of BY Dra – type stars (1992-2000), 2001, in: *Proc. of Balkan Meeting of Young Astronomers*, 25-29 Sept. 2000, Belogradchik, Bulgaria, A. Antov, R. Konstantinova-Antova, R. Bogdanovski and M. Tsvetkov (eds.). p. 136.
29. Iliev, I. Kh., Budaj, J., Ziznovsky, J. Zverko, J., Discovery of a secondary spectrum in the SB1 system HD434, 2001, *IBVS*, 5051, 1-4.
30. Iliev, I. Kh., Paunzen, E., Barzova, I. S., Andrievsky, S. M., Chernishova, I. V., Kamp, I. On the orbital periods of two bona-fide Lambda Bootis stars HD64491 and HD141851, 2001, *IBVS*, 5178, 1-4
31. Iliev, I. Kh., Budaj, J., Zverko, J., Ziznovsky, J., Stateva, I., Geordzheva, E. Detection of a ternary spectrum in HD216608, 2001, *IBVS*, 5199, 1-4
32. Iliev, L., Study of Be stars - impact on the evolutionary stage understanding, 2001, in *Proc. of Balkan Meeting of Young Astronomers*, 25-29 Sept. 2000, Belogradchik, Bulgaria, A. Antov, R. Konstantinova-Antova, R. Bogdanovski and M. Tsvetkov (eds), p. 107
33. Ivanova, A., Bonev, T., Borisov, G., Preperihelion evolution of the CN coma in Comet C/1999 S4 (LINEAR), 2001, *Bulg. J. Phys.*, **27**, 77-80
34. Ivanova, V., Bilkina, B., Donchev, Z., Borisov, G., Follow up observations of asteroids, 2001, Jan. *MPC*, **41807**.
35. Ivanova, V., Bilkina, B., Donchev, Z., Borisov, G., Follow up observations of asteroids, 2001, Jan. *MPC*, **41813**.
36. Ivanova, V., Bilkina, B., Donchev, Z., Borisov, G., Follow up observations of asteroids, 2001, Jan. *MPC*, **42026**.
37. Ivanova, V., Bilkina, B., Donchev, Z., Borisov, G., Elst, E., Observations of minor planets, 2001, Mar., *MPC*, **42251**.
38. Ivanova, V., Bilkina, B., Follow up observations of asteroids, 2001, Jul., *MPC*, **42976**.
39. Ivanova, V., Bilkina, B., Elst, E., Observations of minor planets, 2001, Sep., *MPC*, **43262**.
40. Jockers, K., Bonev, T., Delva, M., Kiselev, N., Petrova, E., The Disintegration of Comet C/1999 S4: Properties of Cometary Dust derived from Narrow-band Images of its Color and Polarization, 2001, *AGM*, **18**, P08
41. Kamp, I., Iliev, I. Kh., Paunzen, E., Pintado, O., Solano, E., Barzova, I. S., Light element non-LTE abundances of Lambda Bootis stars: II. Nitrogen and Sulphur, 2001, *A&A*, **375**, 899-908
42. Klecker, B., Bothmer, V., Cummings, A. C., George, J. S., Keller, J. W., Salerno, E., Sofia, U. J., Stone, E. C., Thielemann, F.-K., Wiedenbeck, M. E., Buclin, F., Christian, E. R., Flückiger, E. O., Hofer, M. Y., Jones, F. C., Kirilova, D., Kunow, H., Laming, M., Tranquille, C., Wenzel, K.-P., Galactic Abundances: Report of Working Group 3, 2001, in *proc. Joint SOHO-ACE Workshop Solar and Galactic Composition*, Bern, 6-9 March, 2001, 207-220.

Publications year: 2001

43. Kirilova, D., Chizhov, M., Neutrino Oscillations in the Early Universe, 2001, *Nucl. Phys. B Proc. Suppl.*, **100**, 360-362
44. Kirilova, D., Chizhov, M., Big Bang Nucleosynthesis and Cosmological Constraints on Neutrino Oscillations Parameters, 2001, *CERN-TH/2001-020*, 1-20
45. Kirilova D., Chizhov M., Lepton Asymmetry Effect on Neutrino Oscillations and Primordial Helium-4, 2001, in "Cosmology and Particle Physics", *AIP Conf. Proc.*, **555**, 433-436
46. Kirilova D., Primordially Produced Helium-4 in the presence of neutrino oscillations, in Solar and Galactic Composition, Bern, 6-9 March, 2001, p. 405-410.
47. Kirilova D., Chizhov M., Large Scale Structure and Baryogenesis, 2001, in Galaxy Clusters and the High-Redshift universe observed in X-rays, eds. J. Tran Thanh Van and Doris M. Neumann, proc. of XXXVIth Rencontres de Moriond, XXI Moriond Astrophysics Meeting, Les Arcs, Savoie, France, March 10-17, 15
48. Kirilova D., How Cosmology Constrains Neutrino Oscillations, 2001, Les Houches EuroConference on Neutrino Masses and Mixings, 18-22 June, 2001, Les Houches, France,
49. Kirilova D., Baryonic Content in Nonstandard BBN Models, 2001, in Proc. of Int. Conf. Where's the Matter? Tracing Dark and Bright Matter with the New Generation of Large Scale Surveys, June 2001, Marseille, Treyer and Tresse (eds.), Frontier Group, p. 273-275.
50. Komitov, B., Bonev, B., Amplitude Variations of the 11 Year Cycle and the Current Solar Maximum 23, 2001, *ApJ*, **554**, L119
51. Konstantinova - Antova, R. K., Activity in single late giants: the present status of the problem, 2001, in: *Proc. of Balkan Meeting of Young Astronomers*, 25-29 Sept. 2000, Belogradchik, Bulgaria, A. Antov, R. Konstantinova-Antova, R. Bogdanovski and M. Tsvetkov (eds), p. 146.
52. Konstantinova-Antova, R., Activity Study in 3 Intermediate Mass Evolved Stars, 2001, *AGM*, **18**, 705
53. Konstantinova-Antova, R. K., On the Connection between Li-enrichment and Chromospheric Activity in Single G and K Giants, 2001, *AGM*, **18**, 88
54. Kurtev, R., Georgiev, L., Borissova, J., Li, W. D., Filippenko, A. V., Treffers, R. R., The first known Mira-type variable star in IC 1613, 2001, *A&A*, **378**, 449
55. Kurtev, R., Sholukhova, O., Borissova, J., Georgiev, L., Romano's Star in M33: LBV Candidate or LBV?, 2001, *RMxAA*, **37**, 57
56. Lampens, P., Strigachev, A., Multicolour observations of visual double stars. New CCD measurements and orbits, 2001, *A&A*, **368**, 572
57. Lehmann, H., Hildebrandt, G., Panov, K., Scholz, G., HD 169981 – an over-looked photometric binay, 2001, *A&A*, **373**, 960.
58. Markov, H. S., Spassova, N. M., Baev, P. V., UBV stellar photometry of bright stars in GC M5 -

Publications year: 2001

I. UV colour-magnitude and colour-colour diagrams and some peculiarities in the HB stellar distribution, 2001, *MNRAS*, **326**, 102-108

59. Markova, N., Morrison, N., Kolka, I., Markov, H., P Cygni in a short S Doradus phase. Spectroscopic and photometric evidences, 2001, *A&A*, **376**, 898

60. Markova, N., New results on spectral and photometric variability of P Cygni, 2001, *ASP Conf. Ser.*, **233**, 95

61. Markova, N., Scuderi, S., de Groot, M., Markov, H., Panagia, N., Simultaneous H α and photometric observations of P Cygni, 2001, *A&A*, **366**, 935

62. Marti, J., Zamanov, R., Paredes, J. M., Ribo, M., V-band Observations of V4641 Sagittarii, 2001, *IBVS*, 5036, 1-4

63. Mihov, B. M., Monte Carlo simulations of quasars' brightness magnification due to gravitational lensing: the highly luminous quasar HS 1946+7658, 2001, in: *Proc. of Balkan Meeting of Young Astronomers*, 25-29 Sept. 2000, Belogradchik, Bulgaria, A. Antov, R. Konstantinova-Antova, R. Bogdanovski and M. Tsvetkov (eds), p. 80

64. Mihov B., The External Shear in the Gravitationally Lensed System Q 2237+0305: a Two-Plane Lens Modelling, 2001, *A&A*, **370**, 43

65. Nenovski, P., Dermendjiev, V. N., Detchev, M., Vial, J-C., Bocchialini, K., On a Mechanism of Intensification of Field-aligned Currents at the Solar Chromosphere - Quiescent Prominence Boundaries, 2001, *A&A*, **375**, 1065

66. Panov, K. P., Dimitrov, D., WR 140 in "eclipse" again, 2001, *IBVS*, 5177, 1-4

67. Panov, K. P., Astronomical research at the Institute of Astronomy, BAS, 2001, in: *Proc. of Balkan Meeting of Young Astronomers*, 25-29 Sept. 2000, Belogradchik, Bulgaria, A. Antov, R. Konstantinova-Antova, R. Bogdanovski and M. Tsvetkov (eds), p. 19

68. Petkov, B., Gogosheva, Ts., Krastev, D., Measurement of the Total Ozone Content over Bulgaria by the Scanning Ultraviolet Spectrometer, 2001, *Compt. Rend. Acad. Bulg. Sci.*, **54(2)**, 35.

69. Petkov, B., Gogosheva, Ts., Verner, R., Krastev, D., Changes of the penetrating ultraviolet Solar Radiation and the Reaction of the Total Ozone during the Solar Eclipse on 11 August 1999., 2001, *Compt. Rend. Acad. Bulg. Sci.*, v. **54(4)**, 33

70. Prugniel, P., Ortiz, P. F., Binette, L., Busarello, G., Golev, V., Joguet, B., Merluzzi, P., Paturel, G., Theureau, G., Tsvetkov, M., Verkhodanov, O., Zasov, A., HYPERLEDA: a Tool for Studying Galaxies, 2001, *misk.conf.*, p. 683

71. Petrov G., Seggewiss W., Dieball A., Kovachev B., CCD standards for U and I in the open cluster NGC 7790, 2001, *A&A*, **376**, 745.

72. Rosado, M., Valdez-Gutiérrez, M., Georgiev, L., Arias, L., Borissova, J., Kurtev, R., The Influence of Massive Stars in the Interstellar Medium of IC 1613: The Supernova Remnant S8 and the Nebula S3 Associated with a WO Star, 2001, *AJ*, **122**, 194

Publications year: 2001

73. Richer, M. G., Bullejos, A., Borissova, J., McCall, M. L., Lee, H., Kurtev, R., Georgiev, L., Kingsburgh, R. L., Ross, R., Rosado, M., IC 10: More evidence that it is a blue compact dwarf, 2001, *A&A*, **370**, 34

74. Semkov, E. H., Stellar variability in the early evolution stages, 2001, in: *Proc. of Balkan Meeting of Young Astronomers*, 25-29 Sept. 2000, Belogradchik, Bulgaria, A. Antov, R. Konstantinova-Antova, R. Bogdanovski and M. Tsvetkov (eds.), p. 116

75. Slavcheva-Mihova L., Oknyanskij V., Mihov B. CCD Photometry of QSO 0957+561 A & B Using La Palma Archive, 2001, *A&SS*, **275**, 385.

76. Spasov, St., Palazov, K., Kaneva, K., Mendeva, B., Krastev, D., Craig, T., Gogoshev, M., Gogosheva, Ts., Investigations of Atmospheric Optical Emissions in Stara Zagora, Bulgaria, доклад SCOSTEP 10th Quadrennial STP Symposium with CEDAR Workshop, USA, Longmont, Colorado, 17-22 June 2001.

77. Stanishev, V., Kraicheva, Z., Boffin, H. M. J., Genkov, V., Research Note IY Ursae Majoris: Accretion disc evolution after superoutburst, 2001, *A&A*, **367**, 273-276.

78. Stanishev, V.; Kraicheva, Z.; Genkov, V., Spectroscopy of TT Arietis in “positive superhumps” state, 2001, *A&A*, **379**, 185-198.

79. Strigachev, A.; Lampens, P.; Duval, D., Multi-Colour CCD Photometry of Intermediate Visual Double Stars, 2001, in *The influence of binaries on stellar population studies*, Dordrecht: Kluwer Academic Publishers, ASSL, 264, p.559.

80. Teriaca, L., Madjarska, M. S., Doyle, J. G., Electron Density Variations During Ultraviolet Transient Events, 2001, *Solar Phys*, **200**, 91

81. Tomov, N. A., Tomova, M. T., A Colliding-Winds Interpretation of the U Orbital Variation of the Symbiotic Binary AG Pegasi, 2001, *A&SS*, **278**, 311-317

82. Tomov N., General observational characteristics of symbiotic binaries, 2001, in: *Proc. of Balkan Meeting of Young Astronomers*, 25-29 Sept. 2000, Belogradchik, Bulgaria, A. Antov, R. Konstantinova-Antova, R. Bogdanovski and M. Tsvetkov (eds), p. 97 – 106

83. Valdez-Gutiérrez, M., Rosado, M., Georgiev, L., Borissova, J., Kurtev, R., Kinematics of the ionized gas in the Local Group irregular galaxy IC 1613, 2001, *A&A*, **366**, 35

84. Zamanov, R. K., Reig, P., Marti, J., Coe, M. J., Fabregat, J., Tomov, N. A., Valchev, T., Comparison of the H α circumstellar disks in Be/X-ray binaries and Be stars, 2001, *A&A*, **367**, 884 – 890

85. Zamanov R, Marti, J., H α Observations of T CrB, 2001, *IBVS*, 5013, 1-4

86. Zerefos, C. S., Balis, D. S., Zanis, P., Meleti, C., Bais, A. F., Turpali, K., Melas, D., Ziomas, I., Galani, E., Kourtidis, K., Papayannis, A., Gogosheva, Ts., Changes in Surface UV Solar Irradiance and Ozone over the Balkans during the Eclipse of August 11, 1999. 2001, *Adv. Space Res.*, **27(12)**, 1955-1963

Publications year: 2001

87. Zhilyaev, B. E., Romanyuk, Ya. O., Verlyuk, I. A., Svyatogorov, O. A., Khalack, V. R., Sergeev, A. V., Konstantinova-Antova, R. K., Antov, A. P., Bachev, R. S., Alekseev, I. Yu., Chalenko, V. E., Shakhovskoi, D. N., Contadakis, M. E., Avgoloupis, S. J., Detection of high-frequency optical oscillations on the flare star EV Lacertae, 2000, *A&A*, **364**, 641-645

. 88. Zhilyaev, B. E., Romaniuk, Ya. O., Svyatogorov, O. A., Verliuk, I. A., Khalack, V. R., Alekseev, I. Yu., Chalenko, V. E., Shahovskoi, D. N., Contadakis, M. E., Avgoloupis, S. J., Seiradakis, J. H., Konstantinova - Antova, R. K., Antov, A. P., Bachev, R. S., Colour characteristics of flares on EV Lacertae, 2001, 4th Hellenic Astronomical Conference, 16-18 September, 1999, Samos, Greece, p. 144

89. Zhilyaev, B. E., Svyatogorov, O. A., Verlyuk, I. A., Romanyuk, Ya. O., Karpov, N. V., Sergeev, A. V., Antov, A. P., Konstantinova-Antova, R. K., Tracking errors of two 2 m Carl Zeiss telescopes, 2001, 4th Hellenic Astronomical Conference, 16-18 September, 1999, Samos, Greece, p. 150

90. Гогошева, Цв., Петков, Б., Кръстев, Д., Вариации на UV - В слънчева радиация и озона над Стара Загора в периода 1998 - 2001 г. 2001, *Осма нац. конференция Съвременни проблеми на сл.-земните въздействия*, София, 63.