

## **Príloha č. 3**

### **3.1. Vedecký výstup – publikované práce**

#### **3. Knižné odborné publikácie vydané doma**

1. PITTICH, E.M. *Astronomická ročenka 2008*. Hurbanovo: Slovenská ústredná hvezdáreň, 2007. ISBN 978-80-85221-56-5. p. 1-200.
2. RYBÁK, J., SVOREŇ, J. *Celoslovenský astronomický seminár pre učiteľov – 2007*. Zborník prednášok. Tatranská Lomnica: Astronomický ústav SAV. ISBN 978-80-969842-1-3. p. 1 – 80.

#### **6. Kapitoly vo vedeckých monografiách vydané v zahraničí**

3. KLAČKA, J. – KOCIFAJ, M. Effect of electromagnetic radiation on dynamics of cosmic dust particles. In: MARAVELL, N.S. *Space Science: New Research*. New York: Nova Science Publishers, 2006, ISBN 1-60021-005-8. p. 245-285.

#### **7. Kapitoly v knižných odborných publikáciách vydaných doma**

4. HRIC, L. Premenné hviezdy. In PITTICH, E.M. *Astronomická ročenka 2008*. Hurbanovo: Slovenská ústredná hvezdáreň, 2007. ISBN 978-80-85221-56-5. p. 157–175.
5. KUČERA, A. Dynamické Slnko a slnečno-zemské vzťahy. In RYBÁK, J., SVOREŇ, J. *Celoslovenský astronomický seminár pre učiteľov – 2007*. Tatranská Lomnica: Astronomický ústav SAV. ISBN 978-80-969842-1-3. p. 7 – 16.
6. PITTICH, E. Čas, obloha od januára do decembra. In PITTICH, E.M. *Astronomická ročenka 2008*. Hurbanovo: Slovenská ústredná hvezdáreň, 2007. ISBN 978-80-85221-56-5. p. 3–89.
7. PITTICH, E. Pohyb planét po oblohe, Elongácie a jasnosti, Mesiac krátko po nove. In PITTICH, E.M. *Astronomická ročenka 2008*. Hurbanovo: Slovenská ústredná hvezdáreň, 2007. ISBN 978-80-85221-56-5. p. 90–103.
8. PITTICH, E. Kométy. In PITTICH, E.M. *Astronomická ročenka 2008*. Hurbanovo: Slovenská ústredná hvezdáreň, 2007. ISBN 978-80-85221-56-5. p. 106–115.
9. PITTICH, E. Galileiho mesiace. In PITTICH, E.M. *Astronomická ročenka 2008*. Hurbanovo: Slovenská ústredná hvezdáreň, 2007. ISBN 978-80-85221-56-5. p. 132–145.
10. PORUBČAN, V. Meteorické roje. In PITTICH, E.M. *Astronomická ročenka 2008*. Hurbanovo: Slovenská ústredná hvezdáreň, 2007. ISBN 978-80-85221-56-5. p. 104–105.

11. PORUBČAN, V. Meteority. In RYBÁK, J., SVOREŇ, J. *Celoslovenský astronomický seminár pre učiteľov – 2007*. Tatranská Lomnica: Astronomický ústav SAV. ISBN 978-80-969842-1-3. p. 67 – 76.
12. PRIBULLA, T. Planéty mimo slnečnej sústavy – extrasolárne planéty. In RYBÁK, J., SVOREŇ, J. *Celoslovenský astronomický seminár pre učiteľov – 2007*. Tatranská Lomnica: Astronomický ústav SAV. ISBN 978-80-969842-1-3. p. 57 – 66.
13. RYBÁK, J. Slovenská slnečná astrofyzika pred 101 rokmi. In RYBÁK, J., SVOREŇ, J. *Celoslovenský astronomický seminár pre učiteľov – 2007*. Tatranská Lomnica: Astronomický ústav SAV. ISBN 978-80-969842-1-3. p. 33 – 36.
14. SVOREŇ, J. Planétky – Satelitný výskum asteroidov. In PITTICH, E.M. *Astronomická ročenka 2008*. Hurbanovo: Slovenská ústredná hvezdáreň, 2007. ISBN 978-80-85221-56-5. p. 116–131.
15. SVOREŇ, J. V Slnečnej sústave máme opäť 8 planét. In RYBÁK, J., SVOREŇ, J. *Celoslovenský astronomický seminár pre učiteľov – 2007*. Tatranská Lomnica: Astronomický ústav SAV. ISBN 978-80-969842-1-3. p. 17 – 26.
16. SVOREŇ, J. História a súčasnosť Astronomického ústavu SAV. In RYBÁK, J., SVOREŇ, J. *Celoslovenský astronomický seminár pre učiteľov – 2007*. Tatranská Lomnica: Astronomický ústav SAV. ISBN 978-80-969842-1-3. p. 37 – 44.

## **9. Vedecké práce v časopisoch evidovaných a/ v Current Contents**

17. BADALYAN, O.G. – BLUDOVA, N.G. – SÝKORA, J. Comparisons of the green-line corona brightness with the magnetic field strength and the summary sunspot area. In *Contributions of the Astronomical Observatory Skalnaté Pleso*. Vol. 37, no. 2, (2007), p. 125-141.
18. BURROWS, A. – HUBENY, I. – BUDAJ, J. – HUBBARD, W.B. Possible solutions to the radius anomalies of transiting giant planets. In *The Astrophysical Journal*. Vol. 661, no. 1 (2007), p. 502-514. (6,119 - IF2006).
19. BURROWS, A. – HUBENY, I. – BUDAJ, J. – KNUTSON, H.A. – CHARBONNEAU, D. Theoretical spectral models of the planet HD 209458b with a thermal inversion and water emission bands. In *The Astrophysical Journal*. Vol. 668, (2007) p. L171- L174. (6,119 - IF2006).
20. HAJDUKOVÁ, M. Jr. – PAULECH, T. Hyperbolic and interstellar meteors in the IAU MDC radar database. In *Contributions of the Astronomical Observatory Skalnaté Pleso*. Vol. 37 (2007), p. 18–30.
21. HAVLICEK, H. – SANIGA, M. Projective ring line of a specific qudit. In *Journal of Physics A: Mathematical and Theoretical*. 2007, Vol. 40, (2007) p. F943- F952. (1,577 - IF2006).

22. CHOCHOL, D. – KATYSHEVA, N.A. – PRIBULLA, T. – SCHMIDTOBREICK, L. – SHUGAROV, S.Yu. – ŠKODA, P. – ŠLECHTA, M. – VITDONE, A.A. – VOLKOV, I.M. Multicolour photometry and spectroscopy of the Slow Nova V475 Sct (Nova Scuti 2003). In *Chinese Journal of Astronomy and Astrophysics*. Vol. 6, suppl. 1, (2006), p. 137-142. (0,746 - IF2006).
23. IŽDINSKÝ, K. – CEVOLANI, G. – KAPIŠINSKÝ, I. – ZEMÁNKOVÁ, M. – PORUBČAN, V. Microstructure of the Fermo meteorite. In *Il Nuovo Cimento*. Vol. 29C (2006), p. 711–717. (0,294 – IF 2006).
24. KAŇUCHOVÁ, Z. – NESLUŠAN, L.: The parent bodies of the Quadrantid Meteoroid stream. In *Astronomy and Astrophysics*. Vol. 470 (2007), p. 1123-1136. (3,971 - IF2006).
25. KASPER, M. – BILLER, B.A. – BURROWS, A. – BRANDNER, W. – BUDAJ, J. – CLOSE, L.M. The very nearby M/T dwarf binary SCR 1845-6357. In *Astronomy and Astrophysics*. Vol. 471 (2007), p. 655-659. (3,971 - IF2006).
26. KLAČKA, J. – KOCIFAJ, M. Scattering of electromagnetic waves by charged spheres and some physical consequences. In *Journal of Quantitative Spectroscopy and Radiative Transfer*. Vol. 106 (2007), p. 170-183. (1,599 – IF2006).
27. KLAČKA, J. – KOCIFAJ, M. – PÁSTOR, P. – PETRŽALA, J. Poynting-Robertson effect and perihelion motion. In *Astronomy and Astrophysics*. Vol. 464 (2007), p. 127-134. (3,971 – IF2006).
28. KOCIFAJ, M. – KLAČKA, J. Light scattering by amorphous silicon and amorphous carbon particles at different heliocentric distances. In *Contributions of the Astronomical Observatory Skalnaté Pleso*. Vol. 37 (2007), p. 5-17.
29. KRTIČKA, J. – MIKULÁŠEK, Z. – ZVERKO, J. – ŽIŽNOVSKÝ, J. The light variability of the helium strong star HD 37776 as a result of its inhomogenous elemental surface distribution. In *Astronomy and Astrophysics*. Vol. 470 (2007), p. 1089-1098. (3,971 - IF2006).
30. LETO, G. – JAKUBÍK, M. – PAULECH, T. – NESLUŠAN, L. A model of the current stellar perturbations on the Oort Cloud. In *Contributions of the Astronomical Observatory Skalnaté Pleso*. Vol. 37 (2007), p. 161-172.
31. MESZÁROSOVÁ, H. – KARLICKÝ, M. – RYBÁK, J. – FÁRNÍK, F. – JIŘIČKA, K. Long period variations of dm-radio and X-ray fluxes in three X-class flares. In *Astronomy and Astrophysics*. Vol. 460, (2006), p. 865-874. (3,971 - IF2006).
32. MIKULÁŠEK, Z. – JANÍK, J. – ZVERKO, J. – ŽIŽNOVSKÝ, J. – ZEJDA, M. – NETOLICKÝ, M. – VAŇKO, M. On-line database of photometric observations of magnetic chemically peculiar stars. In *Astronomische Nachrichten*. Vol. 328, no. 1, (2007), p. 10-15. (1,399 - IF2006).
33. MILLER, B. – BUDAJ, J. – RICHARDS, M. Revealing the nature of algol disks through optical and UV spectroscopy, synthetic spectra, and tomography of TT Hydreae. In *The Astrophysical Journal*. Vol. 656, no. 2 (2007) Part 1, p. 1075-1091. (6,119 - IF2006).

34. MINAROVJECH, M. Time-latitude prominences distribution (1967-2006). In *Contributions of the Astronomical Observatory Skalnaté Pleso*. Vol. 37, no. 3, (2007), p. 184-188.
35. MINAROVJECH, M. – RUŠIN, V. – SANIGA, M. Total solar irradiance and the FeXIV corona. In *Solar Physics*, Vol. 241, (2007), p. 269-278. (1,887 - IF2006).
36. MINAROVJECH, M. – RUŠIN, V. – SANIGA, M. Time-latitudinal dynamics of magnetic fields and the green corona over three solar cycles. In *Solar Physics*, Vol. 241, (2007), p. 263-268. (1,887 - IF2006).
37. NESLUŠAN, L. The fading problem and the population of the Oort cloud. In *Astronomy and Astrophysics*. Vol. 461 (2007), p. 741-750. (3,971 – IF2006)
38. PASACHOFF, J.M. – RUŠIN, V. – DRUCKMÜLLER, M. – SANIGA, M. Fine structures in the white-light solar corona at the 2006 eclipse. In *The Astrophysical Journal*. Vol. 665, (2007), p. 824-829. (6,119 - IF2006).
39. PORUBČAN, V. – ZIGO, P. – PECINA, P. – PECINOVÁ, D. – CEVOLANI, G. – PUPILLO, G. – ROZBORIL, J. Summer streams of the Taurid meteor complex. In *Contributions of the Astronomical Observatory Skalnaté Pleso*. Vol. 37, no.1, (2007), p. 31-48.
40. PRIBULLA, T. – RUCINSKI, S.M. – CONIDIS, G. – DEBOND, H. – THOMSON, J.R. – GAZEAS, K. – OGLOZA, W. Radial velocity studies of close binary stars. XII. In *The Astronomical Journal*. Vol. 133, (2007), p. 1977-1987. (4,854 - IF2006).
41. RUCINSKI, S.M. – PRIBULLA, T. – VAN KERKWIJK, M.H. Contact binaries with additional components. III. A search using adaptive optics. In *The Astronomical Journal*. Vol. 134, (2007), p. 2353-2365. (4,854 - IF2006).
42. RUCINSKI, S.M. – KUSCHING, R. – MATTHEWS, J. – DIMITROV, W. – PRIBULLA, T. - GUENTHER, D.B. – MOFFAT, A.F.J. – SASSELOV, D. – WALKER, G.A.H. – WEISS, W.W. Discovery of the strongly eccentric, short-period binary nature of the B-type system HD 313926 by the MOST satellite. In *Monthly Notices of the Royal Astronomical Society*. Vol. 380, (2007), L63-L66. (5,057 - IF2006).
43. SANIGA, M. – PLANAT, M. – KIBLER, M.R. – PRACNA, P. A classification of the projective lines over small rings. In *Chaos, Solitons and Fractals*. Vol. 33, (2007), p. 1095-1102. (2,042 - IF2006).
44. SANIGA, M. – PLANAT, M. – MINAROVJECH, M. Projective line over the finite quotient ring GF (2)  $[x]/(x^3 - x)$  and quantum entanglement: the Mermin "magic" square/pentagram. In *Theoretical and Mathematical Physics*. Vol. 151, no. 2, (2007), p. 625-631. (0,626 - IF2006).
45. SANIGA, M. – PLANAT, M. Projective line over the finite quotient ring GF(2) $[x]/(x^3 - x)$  and quantum entanglement: theoretical background. In *Theoretical and Mathematical Physics*. Vol. 151, no. 1, (2007) p. 474-481. (0,626 - IF2006).

46. SKOPAL, A. On the effect of emission lines on *UBVR* photometry. In *New Astronomy*. Vol. 12, (2007), p. 597-604. (2,220 - IF2006).
47. SKOPAL, A. – VAŇKO, M. – PRIBULLA, T. – CHOCHOL, D. – SEMKOV, E. – WOLF, M. – JONES, A. Recent photometry of symbiotic stars. In *Astronomische Nachrichten*. Vol.328, no. 9, (2007), p. 909-916. (1,399 - IF2006).
48. SOLOVAYA, N. – PITTCICH, E. About two possible dynamical evolution ways of extra-solar planet gamma Cephei. In *Contributions of the Astronomical Observatory Skalnaté Pleso*. Vol. 37, no. 3, (2007), p.173-183.
49. VANKO, M. – PARIMUCHA, S. – PRIBULLA, T. Photometric study of neglected binary DV Psc. In: *Astronomische Nachrichten*, Vol. 328, (2007), p. 655-660. (1,399 - IF2006).
50. ZVERKO, J. – ŽIŽNOVSKÝ, J. – MIKULÁŠEK, Z. – ILIEV, I. Kh. Radial velocity determination by CCF using a synthetic spectrum as the template and detecting component spectra in SB1 binaries. In *Contributions of the Astronomical Observatory Skalnaté Pleso*. Vol. 37, no. 1, (2007), p. 49-62.

**Poznámka:** Práce publikované v *Contributions of the Astronomical Observatory Skalnaté Pleso* nemajú uvádzaný Impact Factor. Ide o časopis vydávaný menej ako štyrikrát ročne a preto indexovaný v *Current Contents / Physical, Chemical & Earth Sciences / Current Book Contents*, pre ktoré sa IF neuvádzajú.

**b/ v NASA ADS**

(**Astrophysics Data Service** – [http://adsabs.harvard.edu/abstract\\_service.html](http://adsabs.harvard.edu/abstract_service.html))

51. DOROTOVIČ, I. – JOURNOUD, P. – RYBÁK, J. – SÝKORA, J. North-South asymmetry of Ca II K plages. In Coimbra Solar Physics Meeting. *The Physics of Chromospheric Plasmas*. - San Francisco: Astronomical Society of Pacific, 2007. Vol. 368, p. 527-532.
52. GÁLIS, R. – HRIC, L. – KUNDRA, E. Photometric investigation of near-contact binary FR Ori. In *Binary stars as critical tools & tests in contemporary astrophysics*. Vol. 2. – Cambridge: Cambridge University Press, 2007. Vol. 240, article no. 126, p. 1-11.
53. GÁLIS, R. – HRIC, L. – LEEDJÄRV, L. – ŠUHADA, R. Long-term photometric behaviour of symbiotic system AG Dra. In *Binary stars as critical tools & tests in contemporary astrophysics*. Vol. 2. - Cambridge: Cambridge University Press, 2007. Vol. 240, article no. 121, p. 1-9.
54. GÖMÖRY, P. – BALTHASAR, H. Magnetic vector field above a sunspot. In Modern solar facilities - advanced solar science workshop. *Modern Solar Facilities - Advanced Solar Science*. - Göttingen: Universitätsverlag, 2007, p.221-224.
55. GÖMÖRY, P. – RYBÁK, J. – KUČERA, A. – CURDT, W. – WÖHL, H. Propagating waves in the chromospheric network. In Coimbra Solar Physics Meeting. *The Physics of Chromospheric Plasmas*. - San Francisco: Astronomical Society of Pacific, 2007. ISBN 978-1-583812-36-5. Vol. 368, p. 133-136.

56. HRIC, L. – GÁLIS, R. Is there an accretion disc, envelope, or torus in the YY Her binary? In *Memoires della Societa Astronomica Italiana*, Vol. 78, (2007), p. 400- 402.
57. HRIC, L. – GÁLIS, R. – ŠMELCER, L. The eclipsing model of the symbiotic binary YY Her. In *Binary stars as critical tools & tests in contemporary astrophysics. Vol. 2.* – Cambridge: Cambridge University Press, 2007. Vol. 240, article no. 387, p. 1-12.
58. KOZA, J. – KUČERA, A. – RYBÁK, J. – WÖHL, H. The Height dependence of temperature - velocity correlation in the solar photosphere. In *Modern solar facilities - advanced solar science workshop. Modern Solar Facilities - Advanced Solar Science.* - Göttingen: Universitätsverlag, 2007. p. 139-142.
59. KOZA, J. – KUČERA, A. – RYBÁK, J. – WÖHL, H. The Height dependence of quiet-sun photospheric temperature fluctuations in observations and simulations. In Meeting of ASP held at the National Solar Observatory. *Solar MHD Theory and Observations: a High Spatial Resolution Perspective.* - San Francisco: Astronomical Society of the Pacific, 2006. ISBN 978-1-583812-22-8. Vol. 354, p. 43-48.
60. KOZA, J. – SÜTTERLIN, P. – KUČERA, A. – RYBÁK, J. Temporal variations in fibril orientation. In Coimbra Solar Physics Meeting. *The Physics of Chromospheric Plasmas.* - San Francisco: Astronomical Society of Pacific, 2007. Vol. 368, p. 115-118.
61. KRTIČKA, J. – MIKULÁŠEK, Z. – ZVERKO, J. – ŽIŽŇOVSKÝ, J. The Nature of light variations of the helium strong chemically peculiar star HD 37776. In ASP conference at Hokkai-Gauken University. *Active OB Stars: Laboratories for Stellar and Circumstellar Physics* - San Francisco: Astronomical Society of the Pacific, 2007. Vol. 361, p. 454-456.
62. KRTIČKA, J. – MIKULÁŠEK, Z. – ZVERKO, J. – ŽIŽŇOVSKÝ, J. The Light variations of HD 37776 as a result of the uneven surface distribution of helium and silicon. In International Conference Physics of Magnetic Stars. *Physics of magnetic stars.* - Nizhnij Arkhyz : SAO Russian Acad. Sci., 2007, p. 310-314.
63. KUČERA, A. – WÖHL, H. – RYBÁK, J. – WU, S.T. – WANG, A.H. Spectral characteristics of the photosphere near a flare. In *Central European Astrophysical Bulletin.* Vol. 31, no. 1 (2007), p. 21-29.
64. MIKULÁŠEK, Z. – JANÍK, J. – ŽIŽŇOVSKÝ, J. – ZVERKO, J. – ZEJDA, M. – NETOLICKÝ, M. – VAŇKO, M. – ZVĚŘINA, P. – KUČEROVÁ, B. – CENIGA, M. – SZÁSZ, G. On-line database of photometric observations of magnetic chemically peculiar stars. In International Conference Physics of Magnetic Stars. *Physics of magnetic stars.* - Nizhnij Arkhyz: SAO Russian Acad. Sci., 2007, p. 296-299.
65. MIKULÁŠEK, Z. – KRTIČKA, J. – ZVERKO, J. – ŽIŽŇOVSKÝ, J. – JANÍK, J. Light variations and angular momentum loss from the He-strong magnetic chemically peculiar star HD 37776. In ASP conference at Hokkai-Gauken University. *Active OB Stars: Laboratories for Stellar and Circumstellar Physics.* - San Francisco: Astronomical Society of the Pacific, 2007. Vol. 361, p. 466-468.

66. MIKULÁŠEK, Z. – SKOPAL, A. – ZEJDA, M. – PEJCHA, O. – KOHOUTEK, L. – MOTL, D. – VITDONE, A.A. – ERRICO, L. Light variations of the anomalous central star of planetary nebula Sh 2-71. In ASP conference at Hokkai-Gauken University. *Active OB Stars: Laboratories for Stellar and Circumstellar Physics*. - San Francisco: Astronomical Society of the Pacific, 2007. Vol. 361, p. 469-471.
67. MIKULÁŠEK, Z. – ZVERKO, J. – KRTIČKA, J. – JANÍK, J. – ŽIŽŇOVSKÝ, J. – ZEJDA, M. The ZOO of uvby and Hp light curves of magnetic chemically peculiar stars. In International Conference Physics of Magnetic Stars. *Physics of magnetic stars*. - Nizhnij Arkhyz: SAO Russian Acad. Sci., 2007, p. 300-309.
68. MOLENDZAKOWICZ, J. – ARENTOFT, T. – KJELDSEN, H. – VAŇKO, M. Solar-like Oscillations with Kepler. In *Communications in Asteroseismology*. Vol. 150, (2007), p. 143-144.
69. PARIMUCHA, Š. – VAŇKO, M. – PRIBULLA, T. – HAMBÁLEK, L. – DUBOVSKÝ, P. – BALUĎANSKÝ, D. – PETRÍK, K. – CHRASTINA, M. – URBANČOK, L. New minima times of selected eclipsing binaries. In *Information Bulletin on Variable Stars*. no. 5777, (2007), p. 1-6.
70. PLANAT, M. – SANIGA, M. Pauli graph and finite projective lines/geometries. In SPIE International Congres on Optics and Optoelectronics. *Photon Counting Applications, quantum optics, and Quantum Cryptography: [proceedings of the SPIE International Conference on Optics and Optoelectronics]*. - [S.l.]: SPIE-The International Society for Optical Engineering, 2007. Vol. 6583, p. 1-12.
71. PRAY, D.P. – KUŠNIRÁK, P. – GALÁD, A. – VILÁGI, J. – KORNOŠ, L. – GAJDOS, Š. – PIKLER, M. – ČERVÁK, G. – HUSÁRIK, M. – OEY, J. – COONEY, W. – GROSS, J. – TERRELL, D. – STEPHENS, R.D. – HIGGINS, D. Lightcurve analysis of asteroids 2006 BQ6, 2942, 2943, 3402, 3533, 6497, 6815, 7033, 12336, and 14211. In *Minor Planet Bulletin*. Vol. 33 (2007), no. 2, p. 44-46.
72. RYBÁK, J. – KUČERA, A. – WÖHL, H. – WEDEMEYER-BÖHM, S. – STEINER, O. A New method for comparing numerical simulations with spectroscopic observations of the solar photosphere. In Meeting of ASP held at the National Solar Observatory. *Solar MHD Theory and Observations: a High Spatial Resolution Perspective*. - San Francisco: Astronomical Society of the Pacific, 2006. ISBN 978-1-583812-22-8. Vol. 354, p. 77-82.
73. SKOPAL, A. – OTSUKA, M. – TAMURA, S. – VITDONE, A.A. – ERRICO, L. – WOLF, M. Broad H\_alpha wings in active symbiotic stars: The case of Z Andromedae. In Pacific Rim Conference on Stellar Astrophysics. *The Seventh Pacific Rim Conference on Stellar Astrophysics*. - San Francisco: Astronomical Society of Pacific, 2007, Vol. 362, p. 228-233.
74. WARNER, B.D. – PRAVEC, P. – KUŠNIRÁK, P. – HIGGINS, D. – KAŇUCHOVÁ, Z. – HUSÁRIK, M. – GALÁD, A. – VILÁGI, J. Lightcurve analysis of (12735) 1991 VV1. In *Minor Planet Bulletin*. Vol. 34 (2007), no. 3, p. 83-84.
75. ZBORIL, M. Monitoring active stars 29 Dra, 12 Cam and colour excess of II Peg. In *Serbian Astronomical Journal*. Vol. 175, (2007), p. 51-56.

## **10. Vedecké práce v ostatných časopisoch**

76. HAJDUKOVÁ, M. Jr. Vplyv chýb v určení polohy radiantov meteorov na hyperbolické dráhy. In *Meteorické správy*. Vol. 28 (2007), p. 12-16.
77. HUSÁRIK, M. Relatívna CCD fotometria troch číslovaných asteroidov (3936), (10497) a (23177). In *Meteorické správy*. Vol. 28 (2007), p. 51-61.
78. KORNOŠ, L. – PORUBČAN, V. – CEVOLANI, G. Radiant, dráha a štruktúra meteorického prúdu Lyríd. In *Meteorické správy*. Vol. 28 (2007), p. 17-24.
79. SANIGA, M. – PLANAT, M. Multiple qubits as symplectic polar spaces of order two. In *Advanced Studies in Theoretical Physics*. ISSN 1313-1311, 2007, Vol. 1, no. 1, p. 1-4.
80. SANIGA, M. – PLANAT, M. – PRACNA, P. – HAVLICEK, H. The Veldkamp space of two-qubits. In *Symmetry, Integrability and Geometry: Methods and Applications*. ISSN 1815-0659, 2007, Vol. 3, article 075, p. 1-7.
81. SVOREŇ, J. Pozorovacie programy a výsledky astrometrie komét a asteroidov na Skalnatom plese. In *Meteorické správy*. Vol. 28 (2007), p. 43-50.
82. SVOREŇ, J. – SPURNÝ, P. – PORUBČAN, V. – KAŇUCHOVÁ, Z. Pozorovanie bolidov na tatranských observatóriách AsÚ SAV. In *Meteorické správy*. Vol. 28 (2007), p. 3-11.

## **11. Vedecké práce v zborníkoch (konferenčných aj nekonferenčných, vydaných tlačou alebo na CD)**

### **b/ nerecenzovaných**

83. BADALYAN, O. G. – SÝKORA, J. Polar coronal regions by observations of the 1994 total solar eclipse. In Pulkovskaja mezdunarodnaja konferentsia "Fizicheskaja priroda solnechnoj aktivnosti i prognozirovanie jejo geofizicheskikh projavlenij". *Trudy XI. Pulkovskoj mezdunarodnoj konferentsii "Fizicheskaja priroda solnechnoj aktivnosti i prognozirovanie jejo geofizicheskikh projavlenij"*. - Sankt Peterburg: Glavnaja Astronomicheskaja Observatoriya Russkoj Akademii Nauk, 2007. ISBN 5-9651-0112-0, p. 11-14.
84. RUŠIN, V. – MINAROVJECH, M. – SANIGA, M. – KLOCOK, L. Long-term variations of the green coronal (530.3 nm) irradiance. In ILWS Workshop. *Solar Influence on the Heliosphere and Earth's Environment: Recent Progress and Prospects: Proceedings of ILWS Workshop*. - India: Quest Publications and Indian Institute of Geomagnetism, 2007. ISBN 81-87099-40-2, p. 165-169.

### **13. Recenzie vedeckých prác vo vedeckých časopisoch**

85. – 94. SOLOVAYA, N.A. 10 vyžiadaných a publikovaných review pre *Zentralblatt MATH*.

### **16. Vydávané periodiká evidované v Current Contents**

95. Contribution of the Astronomical Observatory Skalnaté Pleso, zväzok 37, Astronomický ústav SAV, eds. J. SVOREŇ a R. KOMŽÍK, 3 čísla v r. 2007.

### **20. Vedecké práce uvedené na internete**

#### **a/ v cudzom jazyku**

96. HIGGINS, D. – PRAVEC, P. – KUŠNIRÁK, P. – HORNOCH, K. – HUSÁRIK, M. – PIKLER, M. – ČERVÁK, G. – PRAY, D. – GAJDOŠ, Š. – KRUGLY, Yu. – MARSHALKINA, A. – STEPHENS, R. – COLAS, F. – COONEY, W. – GROSS, J. – TERRELL, D. – GREEN, D.W.E. Photometric observations of binary system (8116) Jeanperrin, In *Central Bureau Electronic Telegrams*, No. 1127, (2007).
97. HORVATH, H. – TOHNO, S. – KOCIFAJ, M. Long range transport of desert aerosols – A global event. In *First Spanish Meeting on Aerosol Science and Technology, 5-6 July 2007, Madrid, Spain.* UNED Madrid. (R)
98. KOCIFAJ, M. Determination of the mean aspect ratio of aerosol particles from optical data. In *European Aerosol Conference EAC 2007, 9-14 September 2007, Salzburg, Austria.* GAef Germany. (R)
99. PIKLER, M. – HUSÁRIK, M. – ČERVÁK, G. – COONEY, W. – GROSS, J. – TERRELL, D. – PRAVEC, P. – KUŠNIRÁK, P. – GALÁD, A. – VILÁGI, J. – KORNOŠ, L. – GAJDOŠ, Š. – REDDY, V. – DYVIG, R. – GREEN, D.W.E. Photometric observations of binary system (2486) Metsahovi, In *Central Bureau Electronic Telegrams*, No. 860, (2007).
100. PRAY, D. – PRAVEC, P. – KUŠNIRÁK, P. – HORNOCH, K. – HIGGINS, D. – COONEY, W. – GROSS, J. – TERRELL, D. – OHEY, J. – GALÁD, A. – KORNOŠ, L. – GAJDOŠ, Š. – VILÁGI, J. – STEPHENS, R. – MARCHIS, F. – BAEK, M. – MACOMBER, B. – REDDY, V. – HUSÁRIK, M. – PIKLER, M. – GREEN, D.W.E. Photometric observations of binary system (32039) 2000 JO23, In *Central Bureau Electronic Telegrams*, No. 1147, (2007).
101. PRAY, D. – PRAVEC, P. – KUŠNIRÁK, P. – HORNOCH, K. – KRUGLY, Yu. – CHIORMY, V. – HUSÁRIK, M. – PIKLER, M. – VILÁGI, J. – GAJDOŠ, Š. – GALÁD, A. – COONEY, W. – GROSS, J. – TERRELL, D. – GAFTONYUK, N. – STEPHENS, R. – DURKEE, R. – MARCHIS, F. – BAEK, M. – MACOMBER, B. – REDDY, V. – COLAS, F. – LECACHEUX, J. – RIES, J. – GREEN, D.W.E. Photometric observations of binary system (16635) 1993 QO, In *Central Bureau Electronic Telegrams*, No. 1143, (2007).