

# СПИСЪК НА НАУЧНИ ПУБЛИКАЦИИ ЗА ПОСЛЕДНИТЕ ПЕТ ГОДИНИ (2019 - 2024 г.)

на проф. дн Евгени Семков

Институт по астрономия с НАО, Българска академия на науките

## A. Научни публикации в издания, индексирани във WoS или Scopus.

1. Mutafov, A. S., **Semkov, E. H.**, Ibryamov, S. I., Peneva, S. P., Long-time photometric study of UX Orionis stars, 2019, *AIP Conference Proceedings*, 2075, 090004. SJR (Scopus):0.182 **Q4**
2. **Semkov, E. H.**, Ibryamov, S. I., Peneva, S. P., Photometric and spectroscopic study of 5 pre-main sequence stars in the vicinity of NGC 7129, 2019, *Serbian Astronomical Journal*, 199, 39-53. JCR-IF (Web of Science):0.833 **Q4**
3. D'Ammando, F., Raiteri, C. M., Villata, M., ..., **Semkov, E.** et al., Investigating the multiwavelength behaviour of the flat spectrum radio quasar CTA 102 during 2013–2017, 2019, *Monthly Notices of the Royal Astronomical Society*, 490, 5300-5316, JCR-IF (Web of Science):5.231, **Q1**
4. Gaur, H., Gupta, A. C., Bachev, R., Strigachev, A., **Semkov, E.**, Wiita, P. J., Kurtanidze, O. M., Darriba, A., Damjanovic, G., Chanishvili, R. G., Ibryamov, S., Kurtanidze, S. O., Nikolashvili, M. G., Sigua, L. A., Vince, O., Optical Variability of TeV Blazars on long time-scales, 2019, *Monthly Notices of the Royal Astronomical Society*, 484, 5633-5644. JCR-IF (Web of Science):5.231, **Q1**
5. Gupta, A. C., Gaur, H., Wiita, P. J., Pandey, A., Kushwaha, P., Hu, S. M., Kurtanidze, O. M., **Semkov, E.**, Damjanovic, G., Goyal, A., Uemura, M., Darriba, A., Chen, X., Vince, O., Gu, M. F., Zhang, Z., Bachev, R., Chanishvili, R., Itoh, R., Kawabata, M., Kurtanidze, S. O., Nakaoka, T., Nikolashvili, M. G., Stawarz, L., Strigachev, A., Characterizing optical variability of OJ 287 in 2016-2017, 2019, *Astronomical Journal*, 157, art.id. 95. JCR-IF (Web of Science):5.497 **Q1**
6. Huang, P. C., Chen, W. P., Mugrauer, M., Bischoff, R., Budaj, J., Burkhonov, O., Ehgamberdiev, S., Errmann, R., Garai, Z., Hsiao, H. Y., Hu, C. L., Janulis, R., Jensen, E. L. N., Kiyota, S., Kuramoto, K., Lin, C. S., Lin, H. C., Liu, J. Z., Lux, O., Naito, H., Neuhäuser, R., Ohlert, J., Pakštienė, E., Pribulla, T., Qvam, J. K. T., Raetz, St., Sato, S., Schwartz, M., **Semkov, E.**, Takagi, S., Wagner, D., Watanabe, M., Zhang, Y., Diagnosing the Clumpy Protoplanetary Disk of the UXor Type Young Star GM Cephei. 2019, *Astrophysical Journal*, 871, art. id. 1. JCR-IF (Web of Science):5.551 **Q1**
7. Raiteri, C. M., Villata, M., C., Carnerero, M. I., ..., **Semkov, E.**, et al., The beamed jet and quasar core of the distant blazar 4C 71.07, 2019, *Monthly Notices of the Royal Astronomical Society*, 489, 1837-1849. JCR-IF (Web of Science): 5.231 **Q1**
8. Sekeráš, M., Skopal, A., Shugarov, S., Shagatova, N., Kundra, E., Komžík, R., Vrašták, M., Peneva, S. P., **Semkov, E.**, Stubbing, R., Photometry of Symbiotic Stars – XIV, 2019, *Contributions of the Astronomical Observatory Skalnaté Pleso*, **49**, 19-66. JCR-IF (Web of Science): 0.733 **Q4**

9. Vercellone, S., Romano, P., Piano, G., ..., **Semkov, E.** et al., AGILE, Fermi, Swift, and GASP/WEBT multi-wavelength observations of the high-redshift blazar 4C +71.07 in outburst. 2019, *Astronomy and Astrophysics*, **621**, A82. JCR-IF (Web of Science):6.209 **Q1**
10. Acciari, V. A., Ansoldi, S., Antonelli, L. A., ..., **Semkov, E.**, et al., Unravelling the complex behavior of Mrk 421 with simultaneous X-ray and VHE observations during an extreme flaring activity in April 2013, 2020, *Astrophysical Journal Supplements*, **248**, art.id. 29. JCR-IF (Web of Science):8.311 **Q1**
11. Ibryamov, S., **Semkov, E.**, Peneva, S., Gocheva, K., BV(RI)c photometric study of three variable PMS stars in the field of V733 Cephei, 2020, *Research in Astronomy and Astrophysics*, **20**, art.id.194. SJR (Scopus):0.48, JCR-IF (Web of Science):1.512 **Q3**
12. Ibryamov, S., **Semkov, E.**, New four-color optical photometry of the young stars V521 Cyg and FHO 27, 2020, *Bulgarian Astronomical Journal*, **32**, 96-107. SJR (Scopus):0.189 **Q4**
13. Larionov, V. M., Jorstad, S. G., Marscher, A. P., ..., **Semkov, E.**, et al., Multiwavelength behaviour of the blazar 3C 279: decade-long study from  $\gamma$ -ray to radio, 2020, *Monthly Notices of the Royal Astronomical Society*, **492**, 3829-3848. JCR-IF (Web of Science):5.356 **Q1**
14. Pandey, A., Gupta, A. C., Kurtanidze, S. O., Wiita, P. J., Damjanovic, G., Bachev, R., Zhang, J., Kurtanidze, O. M., Darriba, A., Chigladze, R. A., Latev, G., Nikolashvili, M. G., Peneva, S., **Semkov, E.**, Strigachev, A., Tiwari, S. N., Vince, O., Optical Variability of the TeV Blazar 1ES 0806+524 on Diverse Timescales, 2020, *Astrophysical Journal*, **890**, id. 72. JCR-IF (Web of Science):5.58 **Q1**
15. Pieńkowski, D., Gałan, C., Tomov, T., ..., **Semkov, E.**, et al., International observational campaign of the 2014 eclipse of EE Cep, 2020, *Astronomy and Astrophysics*, **639**, A23. JCR-IF (Web of Science):6.209 **Q1**
16. Weaver, Z. R., Williamson, K. E., ..., **Semkov, E.**, et al., Multi-Wavelength Variability of BL Lacertae Measured with High Time Resolution, 2020, *Astrophysical Journal*, **900**, id. 137. JCR-IF (Web of Science):5.745 **Q1**
17. Bachev, R., Strigachev, A., Kurtenkov, A., Spassov, B., Nikolov, Y., Boeva, S., **Semkov, E.**, Optical follow-up of TXS 0506+056 after the neutrino detection, 2021, *Bulgarian Astronomical Journal*, **34**, 79-85. SJR (Scopus):0.189 **Q4**
18. Georgiev, Ts. B., Boeva, S., Latev, G., **Semkov, E.**, Stoyanov, K. A., Tsvetkova, S. V., Intra-night flickering of T Coronae Borealis: Flickering parameters and quasi-period modes. Comparison with RS Ophiuchi, 2021, *Bulgarian Astronomical Journal*, **34**, 10-29. SJR (Scopus):0.189 **Q4**
19. **Semkov, E. H.**, Peneva, S. P., Ibryamov, S. I., Long-term optical photometric monitoring of the FUor star V900 Mon, 2021, *Serbian Astronomical Journal*, **202**, 31-38. JCR-IF (Web of Science):0.565 **Q4**
20. **Semkov, E.**, Ibryamov, S., Peneva, S., The FUor star V2493 Cyg (HBC 722) - eleven years at maximum brightness, 2021, *Symmetry*, **13**, 2433. JCR-IF (Web of Science):2.94 **Q2**
21. Acciari, V. A., Ansoldi, S., Antonelli, L. A., ..., **Semkov, E.** et al., Investigation of the correlation patterns and the Compton dominance variability of Mrk 421 in 2017, 2021, *Astronomy and Astrophysics*, **655**, A89. JCR-IF (Web of Science):5.745 **Q1**

22. Ibryamov, S., **Semkov, E.**, A new prolonged decrease event in the brightness of the young stellar object V2492 Cygni. 2021, *Bulgarian Astronomical Journal*, **35**, 54-59. SJR (Scopus):0.259 **Q4**
23. Ibryamov, S., Zidarova, G., **Semkov, E.**, Peneva, S., Long-term V(RI)c CCD photometry of pre-main-sequence stars in the association Cepheus OB3, 2021, *Research in Astronomy and Astrophysics*, 21, id. 192, JCR-IF (Web of Science):1.889 **Q2**
24. Raiteri, C. M., Villata, M., Carosati, D., Benítez, E., Kurtanidze, S. O., Gupta, A. C., Mirzaqulov, D. O., D'Ammando, F., Larionov, V. M., Pursimo, T., Acosta-Pulido, J. A., Baida, G. V., Balmaverde, B., Bonnoli, G., Borman, G. A., Carnerero, M. I., Chen, W.-P., Dhiman, V., Di Maggio A., Ehgamberdiev, S. A., Hiriart, D., Kimeridze, G. N., Kurtanidze, O. M., Lin, C. S., Lopez, J. M., Marchini, A., Matsumoto, K., Mujica, R., Nakamura, M., Nikiforova, A. A., Nikolashvili, M. G., Okhmat, D. N., Otero-Santos, J., Rizzi, N., Sakamoto, T., **Semkov, E.**, Sigua, L. A., Stiaccini, L., Troitsky, I. S., Tsai, A.-L., Vasilyev, A. A., Zhovtan, A. V., The dual nature of blazar fast variability. Space and ground observations of S5 0716+714, 2021, *Monthly Notices of the Royal Astronomical Society*, **501**, 1100-1115. JCR-IF (Web of Science):5.356 **Q1**
25. Raiteri, C. M., Villata, M., Larionov, V. M., ..., **Semkov, E. H.**, et al., The complex variability of blazars: Time-scales and periodicity analysis in S4 0954+65. 2021, *Monthly Notices of the Royal Astronomical Society*, **504**, 5629-5646. JCR-IF (Web of Science):5.357 **Q1**
26. Mutafov, A., **Semkov, E.**, Peneva, S., Ibryamov, S., Long-term Photometric Study of the Pre-main Sequence Star V1180 Cas, 2022, *Research in Astronomy and Astrophysics*, 22, 125014. SJR (Scopus):0.513, **Q2**
27. Mutafov, A., **Semkov, E.**, Peneva, S., Ibryamov, S., New Results from Long-time Photometric Study of UX Orionis Star GM Cephei, 2022, *Bulgarian Astronomical Journal*, 36, 3-8. SJR (Scopus):0.259 **Q4**
28. Arbet-Engels, A., Paneque, D., Heckmann L., ..., **Semkov, E.**, Bachev, R., Strigachev, A. et al., Unveiling the complex correlation patterns in Mrk 421. 2022, *Proceedings of Science*, **395**, art. n. 834. SJR (Scopus):0.116 **Q4**
29. Jorstad, S., Marscher, A., Raiteri, C., ..., **Semkov, E.**, et al., Rapid Quasi-Periodic Oscillations in the Relativistic Jet of BL Lacertae, 2022, *Nature*, **609**, **7926**, 265-268. JCR-IF (Web of Science):69.504 **Q1 - оглавява ранглистата**
30. Markowitz, A. G., Nalewajko, K., Bhatta, G., ..., **Semkov, E.**, et al., Rapid X-ray Variability in Mkn 421 during a Multiwavelength Campaign. Monthly Notices of the Royal Astronomical Society, 513, 2022, 1662-1679. JCR-IF (Web of Science):5.235 **Q1**
31. Vara-Lubiano, M., Benedetti-Rossi, G., Santos-Sanz, P., ..., **Semkov, E.**, et al., The multichord stellar occultation on 2019 October 22 by the trans-Neptunian Object (84922) 2003 VS2, 2022, *Astronomy and Astrophysics*, **663**, A121. JCR-IF (Web of Science):6.24 **Q1**
32. Zidarova, G., Ibryamov, S., **Semkov, E.**, Peneva, S., Long-term optical photometry of the PMS stars V2764 Ori and LkHalpha 301 in the field of the McNeil's Nebula, 2022, *Bulgarian Astronomical Journal*, **37**, 54-61. SJR (Scopus):0.259 **Q4**
33. Dhiman, V., Gupta, A. C., Kurtanidze, S. O., Eglitis, I., Strigachev, A., Damjanovic, G., Wiita, P. J., Gu, M., Gaur, H., Vince, O., Bachev, R., Bisen, D. P., Ibryamov, S., Ivanidze, R. Z., Jovanovic, M. D., Kurtanidze, O. M., Nikolashvili, M. G., **Semkov, E.**,

- Spasov, B., Stojanovic, M., Villarroel, B., Xu, H., Zhang, Z., Multi-band Optical Variability of the TeV Blazar PG 1553+113 in 2019, 2023, *Monthly Notices of the Royal Astronomical Society*, 519, 2796-2811, JCR-IF (Web of Science):5.235 **Q1**
34. Abe, H., Abe, S., Acciari, V. A., ..., **Semkov, E.**, et al., Multi-messenger characterization of Mrk 501 during historically low X-ray and  $\gamma$ -ray activity. The Astrophysical Journal Supplement, 2023, *Astrophysical Journal Supplements*, **266**, art. id. 37, JCR-IF (Web of Science):9.200 **Q1**
  35. Raiteri, C. M., Villata, M., Jorstad, S. G., ..., **Semkov, E.**, et al., The optical behaviour of BL Lacertae at its maximum brightness levels: a blend of geometry and energetics, 2023, *Monthly Notices of the Royal Astronomical Society*, **522**, 102–116, JCR-IF (Web of Science):5.235 **Q1**
  36. Bachev, R., Tripathi, T., Gupta, A. C., Kushwaha, P., Strigachev, A., Kurtenkov, A., Nikolov, Y., Boeva, S., Damjanovic, G., Vince, O., Stojanovic, M., Kishore, S., Gaur, H., Dhiman, V., Fan, J., Kalita, N., Spasov, B., **Semkov, E.**, Intra-night optical flux and polarization variability of BL Lacertae during its 2020 – 2021 high state, 2023, *Monthly Notices of the Royal Astronomical Society*, **522**, 3018–3035, JCR-IF (Web of Science):5.235 **Q1**
  37. **Semkov, E.**, Pre-main sequence stars, 2023, *Bulgarian Astronomical Journal*, **39**, 94-99, SJR (Scopus):0.189 **Q4**
  38. Ibryamov, S., Zidarova, G., **Semkov, E.**, Peneva, S., Study of the long-term *BVR<sub>c</sub>I<sub>c</sub>* photometric variability of eight PMS stars in the young open cluster Trumpler 37, 2023, *Research in Astronomy and Astrophysics*, **23**, id. 085006, JCR-IF (Web of Science):1.889 **Q2**
  39. Raiteri, C. M., Villata, M., Carnerero, M. I., ..., **Semkov, E.**, et al., Extreme photometric and polarimetric variability of blazar S4 0954+65 at its maximum optical and  $\gamma$ -ray brightness levels, 2023, *Monthly Notices of the Royal Astronomical Society*, **526**, 4502–4513, JCR-IF (Web of Science):5.235 **Q1**
  40. Dhiman, V., Gupta, A. C., Bachev, R., Wiita, P., Cellone, S. A., Strigachev, A., Gaur, H., Darriba, A., Bisen, D., Locatelli, G., Mammana, L., **Semkov, E.**, Multi-band optical variability on diverse timescales of the TeV blazar TXS 0506+056, the first cosmic neutrino source, 2024, *Monthly Notices of the Royal Astronomical Society*, **527**, 1344–1356, JCR-IF (Web of Science):4.8 **Q1**
  41. Tripathi, T., Gupta, A. C., Takey, A., Bachev, R., Vince, O., Strigachev, A., Kushwaha, P., Wiita, P., Damjanovic, G., Dhiman, V., Fouad, A., Gaur, H., Gu, M., Hamed, G., Kishore, S., Kurtenkov, A., Rastogi, S., **Semkov, E.**, Zead, I., Zhang, Z., Optical intra-day variability of the blazar S5 0716+714, 2024, *Monthly Notices of the Royal Astronomical Society*, **527**, 5220-5237, JCR-IF (Web of Science):5.235 **Q1**
  42. Zamanov, R., Boeva, S., Latev, G. Y., **Semkov, E.**, Minev, M., Kostov, A., Bode, M. F., Marchev, V., Marchev, D., Accretion in the recurrent nova T CrB: linking the Super-active State to the predicted outburst, 2023, *Astronomy and Astrophysics Letters.*, **680**, L18, JCR-IF (Web of Science):6.5 **Q1**
  43. Abe, H., Abe, S., Acciari, V. A., ..., **Semkov, E.**, et al., Multi-year characterisation of the broad-band emission from the intermittent extreme BL Lac 1ES~2344+514, 2024, *Astronomy and Astrophysics*, **682**, A114, JCR-IF (Web of Science):6.5 **Q1**

44. **Semkov, E.**, Ibryamov, S., Peneva, S., Mutafov, A., Photometric monitoring of PMS stars with the telescopes at Rozhen Observatory, 2024, *Contributions of the Astronomical Observatory Skalnaté Pleso*, **54/2**, 135 – 141, JCR-IF (Web of Science):0.5, **Q4**
45. Minev, M., Petrov, N., **Semkov, E.**, Technical performance and first light of the new 1.5-meter telescope at the National Astronomical Observatory Rozhen, 2024, *Contributions of the Astronomical Observatory Skalnaté Pleso*, **54/2**, 15 – 21, JCR-IF (Web of Science):0.5 **Q4**
46. Abe, H., Abe, S., Abhir, J., ..., **Semkov, E.**, et al., The variability patterns of the TeV blazar PG 1553+113 from a decade of MAGIC and multi-band observations, 2024, *Monthly Notices of the Royal Astronomical Society*, **529**, 3894–3911, JCR-IF (Web of Science):4.8 **Q1**
47. Otero-Santos, J., Raiteri, C. M., Acosta-Pulido, J. A., Carnerero, M. I., Villata, M., Savchenko, S., Carosati, D., Chen, W. P., Kurtanidze, S. O., Joner, M. D., **Semkov, E.**, Pursimo, T., Benítez, E., Damjanovic, G., Apolonio, G., Borman, G. A., Bozhilov, V., Galindo-Guil, F. J., Grishina, T. S., Hagen-Thorn, V. A., Hiriart, D., Hsiao, H. Y., Ibryamov, S., Ivanidze, R. Z., Kimeridze, G. N., Kopatskaya, E. N., Kurtanidze, O. M., Larionov, V. M., Larionova, E. G., Larionova, L. V., Minev, M., Morozova, D. A., Nikolashvili, M. G., Ovcharov, E., Sigua, L. A., Stojanovic, M., Troitskiy, I. S., Troitskaya, V. Yu., Tsai, A., Valcheva, A., Vasilyev, A., Vince, O., Zaharieva, E., Zhovtan, A. V., Optical variability of the blazar 3C 371: from minute to year timescales, 2024, *Astronomy and Astrophysics*, accepted, JCR-IF (Web of Science):6.5 **Q1**
48. **Semkov, E. H.**, Optical observations of PMS stars from the Rozhen Observatory in Bulgaria, 2024, *IAU Proceedings Series, Symposium No. 385*, accepted, JCR-IF (Web of Science):0.4 **Q4**

## **Б. Научни публикации в други издания**

49. Ibryamov, S., **Semkov, E.**, A new fade event in the optical brightness of the young stellar object V2492 Cygni, 2019, *The Astronomer's Telegram*, 12727
50. **Semkov, E.**, Peneva, S., Ibryamov, S., Munari, U., Hirokyu, M., Optical light curves of the FUor and FUor-like objects. Star Formation: From Clouds to Discs, Дъблин (Ирландия), 18 - 22 октомври 2021 г.
51. Zamanov, R., **Semkov, E.**, Kostov, A., Boeva, S., Latev, G., The recurrent nova T CrB - decrease of the U band brightness, 2023, *The Astronomer's Telegram*, #16213
52. Petrov, N., Tsvetkov, Ts., Tyutyundzhiev N., **Semkov, E.**, Mishev, A., Shirov, G., Zinkova, Y., Mutafov, A., Nichev, H., Petrov, M., Angelov, H., Arsov, T., Serafimov, N., Georgiev, G., New Research Project: Ground-Based Monitoring of Cosmic Particles and Space Weather. Proceedings of the Fifteenth Workshop “Solar Influences on the Magnetosphere, Ionosphere and Atmosphere”, 2023, Proc. of the Fifteenth Workshop “Solar Influences on the Magnetosphere, Ionosphere and Atmosphere”, June 4-8, 2023, Primorsko, 112-116