

Complete list of publications of Dr. Emma Kun

Papers in refereed journals: 100, of which first author in: 20
Cumulative Impact Factor: 648.8 (as of the year of publication)
Total citations: Total: 2368 (19.07.2025, NASA/ADS)
h-index: 27 (19.07.2025, NASA/ADS)

2025

1. Ozsvárt, P.; Kun, E.; Bartos, I.; Márka, Zs., Márka, Sz. (2025): Galactic forcing increases origination of marine microplankton. *Paleoceanography and Paleoclimatology*, 40, e2025PA005186 (IF:3.2)
<https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2025PA005186>
2. Britzen, S.; Böttcher, M.; **Kun, E.**; Pashchenko, I. N.; Larchenkova, T.; Lyskova, N.; Jaron, F.; Zajaček, M.; Caramete, L. -I.; Caramete, A.; Pîslan, F. -C.; Kurtanidze, O. (2025): The nuclear jet and core of TXS 0506+056 could be gravitationally lensed. *A&A*, 695, 103 (IF: 5.8)
https://www.aanda.org/articles/aa/full_html/2025/03/aa52530-24/aa52530-24.html
3. Perger, K.; Frey, S.; Gabányi, K. É.; Kun, E. (2025): Zooming into the neutrino-associated blazar candidate J1718+4239. *A&A*, 698, 2 (IF: 5.8)
https://www.aanda.org/articles/aa/full_html/2025/06/aa55177-25/aa55177-25.html
4. Gabányi, K. É.; Frey, S.; Perger, K.; Kun, E. (2025): Solid Identification of Extragalactic Gamma-Ray Source Using High-Resolution Radio Interferometric Observation. *Universe*, 11, 83 (IF: 2.6)
<https://www.mdpi.com/2218-1997/11/3/83>
5. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2025): Search for Neutrino Doublets and Triplets Using 11.4 yr of IceCube Data. *ApJ*, 981, 159 (IF: 5.4)
<https://iopscience.iop.org/article/10.3847/1538-4357/adb312>
6. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2025): Search for Neutrino Emission from Hard X-Ray AGN with IceCube. *ApJ*, 981, 131 (IF: 5.4)
<https://iopscience.iop.org/article/10.3847/1538-4357/ada94b>
7. Abbasi R. et al. (Kun, E., as part of the IceCube Collaboration, 2025): Measurement of the inelasticity distribution of neutrino-nucleon interactions for 80 GeV<Eν<560 GeV with IceCube DeepCore. *Phys. Rev. D.*, 111, 112001 (IF: 5.3)
<https://journals.aps.org/prd/abstract/10.1103/PhysRevD.111.112001>
8. Abbasi R. et al. (Kun, E., as part of the IceCube Collaboration, 2025): Search for dark matter from the center of the Earth with 10 years of IceCube data. *The European Physical Journal C.*, 85, 490 (IF: 4.8)
<https://link.springer.com/article/10.1140/epjc/s10052-025-14144-7>
9. Acharyya, A. et al. (Kun, E., as part of the IceCube Collaboration, 2025): VERITAS and Multiwavelength Observations of the Blazar B3 2247+381 in Response to an IceCube Neutrino Alert. *ApJ.*, 982, 80 (IF: 5.4)
<https://iopscience.iop.org/article/10.3847/1538-4357/adb30c>

10. Abbasi R. et al. (Kun, E., as part of the IceCube Collaboration, 2025): Measurement of Atmospheric Neutrino Oscillation Parameters Using Convolutional Neural Networks with 9.3 Years of Data in IceCube DeepCore. *Phys. Rev. L.*, 134, 091801 (IF: 9.0)
<https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.134.091801>
11. Abbasi R. et al. (Kun, E., as part of the IceCube Collaboration, 2025): Observation of Cosmic-Ray Anisotropy in the Southern Hemisphere with 12 yr of Data Collected by the IceCube Neutrino Observatory. *ApJ*, 981, 182 (IF: 5.4)
<https://iopscience.iop.org/article/10.3847/1538-4357/adb1de>

2024

12. **Kun, E.**, Bartos, I., Becker Tjus, J., Biermann, P. L., Franckowiak, A., Halzen, F., del Palacio, Santiago; Woo, Jooyun (2024): Possible correlation between unabsorbed hard X-rays and neutrinos in radio-loud and radio-quiet AGN. *Phys. Rev. D.*, 110, 123014 (IF: 5.3)
<https://journals.aps.org/prd/abstract/10.1103/PhysRevD.110.123014>
13. **Kun, E.**; Jaroschewski, I.; Tjus, J. B.; Britzen, S.; Frey, S.; Gabányi, K. É.; Cui, L.; Wang, X.; Shen, Y. (2024): Follow-up on the Supermassive Black Hole Binary Candidate J1048+7143 (2024): Successful Prediction of the Next Gamma-Ray Flare and Refined Binary Parameters in the Framework of the Jet Precession Model. *ApJL*, 963, L16 (IF: 7.9)
<https://iopscience.iop.org/article/10.3847/2041-8213/ad2767>
14. Britzen, S.; Kovačević, A. B.; Zajaček, M.; Popović, L. Č.; Pashchenko, I. N.; **Kun, E.**; Pánis, R.; Jaron, F.; Plšek, T.; Tursunov, A.; Stuchlík, Z. (2024): ICECUBE AGN neutrino candidate PKS 1717+177: dark deflector bends nuclear jet. *MNRAS*, 535, 2742 (X)
<https://academic.oup.com/mnras/article/535/3/2742/7906601>
15. Veres, P. M.; Gabányi, K. É.; Frey, S.; Paragi, Z.; An, T.; Bagchi, J.; Bogdán, Á.; Biju, K. G. ; **Kun, E.**; Jacob, J.; Adebahr, B. (2024): European VLBI Network observations of the peculiar radio source 4C 35.06 overlapping with a compact group of nine galaxies. *A&A*, 684, 188 (IF: 6.24)
https://www.aanda.org/articles/aa/full_html/2024/04/aa48729-23/aa48729-23.html
16. Allen, M. L. ; Biermann, P. L.; Chieffi, A. ; Frekers, D. ; Gergely, L. Á. ; Harms, B. ; Jaroschewski, I. ; Joshi, P. S. ; Kronberg, P. P. ; **Kun, E.** ; Meli, A. ; Seo, E. -S. ; Stanev, T. (2024): Loaded layer-cake model for cosmic ray interaction around exploding super-giant stars making black holes. *Astroparticle Physics*, 161, 102976 (IF: 3.5)
<https://www.sciencedirect.com/science/article/pii/S0927650524000537?via%3Dihub>
17. Allen, M. L. ; Biermann, P. L.; Chieffi, A. ; Frekers, D. ; Gergely, L. Á. ; Harms, B. ; Jaroschewski, I. ; Joshi, P. S. ; Kronberg, P. P. ; **Kun, E.** ; Meli, A. ; Seo, E. -S. ; Stanev, T. (2024): A two-step strategy to identify episodic sources of gravitational waves and high-energy neutrinos in starburst galaxies. *FrASS*, 11, 1394741 (IF: 2.6)
<https://www.frontiersin.org/journals/astronomy-and-space-sciences/articles/10.3389/fspas.2024.1394741/full>
18. Kórmíves, J.; Gabányi, K. É.; Frey, S.; **Kun, E.** (2024): VLBI Analysis of a Potential High-Energy Neutrino Emitter Blazar. *Universe*, 10, 78 (IF: 2.9)
<https://www.mdpi.com/2218-1997/10/2/78>

19. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2024): Exploration of mass splitting and muon/tau mixing parameters for an eV-scale sterile neutrino with IceCube. In *PhLB*, 858, 139077 (IF: 4.6)
<https://www.sciencedirect.com/science/article/pii/S037026932400635X?via%3Dihub>
20. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2024): Search for a light sterile neutrino with 7.5 years of IceCube DeepCore data. In *Phys. Rev. D.*, 110, 072007 (IF: 4.3)
<https://journals.aps.org/prd/abstract/10.1103/PhysRevD.110.072007>
21. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2024): Probing the Connection between IceCube Neutrinos and MOJAVE AGN. In *ApJ*, 973, 97 (IF: 4.9)
<https://iopscience.iop.org/article/10.3847/1538-4357/ad643d>
22. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2024): Search for decoherence from quantum gravity with atmospheric neutrinos. In *Nat. Phys.*, 20, 913 (IF: 17.6)
<https://www.nature.com/articles/s41567-024-02436-w>
23. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2024): Characterization of the astrophysical diffuse neutrino flux using starting track events in IceCube. In *Phys. Rev. D*, 110, 022001 (IF: 4.6)
<https://journals.aps.org/prd/abstract/10.1103/PhysRevD.110.022001>
24. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2024): All-sky Search for Transient Astrophysical Neutrino Emission with 10 Years of IceCube Cascade Events. In *ApJ*, 967, 48 (IF: 4.9)
<https://iopscience.iop.org/article/10.3847/1538-4357/ad3730>
25. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2024): Observation of Seven Astrophysical Tau Neutrino Candidates with IceCube. In *PhRvL*, 132, 1001 (IF: 8.6)
<https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.132.151001>
26. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2024): Search for 10–1000 GeV Neutrinos from Gamma-Ray Bursts with IceCube. In *ApJ*, 964, 126 (IF: 4.9)
<https://iopscience.iop.org/article/10.3847/1538-4357/ad220b>
27. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2024): Search for Continuous and Transient Neutrino Emission Associated with IceCube's Highest-energy Tracks: An 11 yr Analysis. In *ApJ*, 964, 40 (IF: 4.9)
<https://iopscience.iop.org/article/10.3847/1538-4357/ad18d6>
28. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2024): In situ estimation of ice crystal properties at the South Pole using LED calibration data from the IceCube Neutrino Observatory. In *TCry*, 18, 75 (IF: 5.2)
<https://tc.copernicus.org/articles/18/75/2024/>
29. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2024): Search for Galactic Core-collapse Supernovae in a Decade of Data Taken with the IceCube Neutrino Observatory. In *ApJ*, 961, 84 (IF: 4.9)
<https://iopscience.iop.org/article/10.3847/1538-4357/ad07d1>

30. **Kun, E.**, Britzen, S., Frey, S., Gabányi, K.É., Gergely, L. Á. (2023): Signatures of a spinning supermassive black hole binary on the mas-scale jet of the quasar S5 1928+738 based on 25 yr of VLBI data (2023). In MNRAS, 526, 4698 (IF: 4.8)
<https://academic.oup.com/mnras/article/526/3/4698/7291957>
31. **Kun, E.**, Bartos, I., Becker Tjus, J., Biermann, P. L., Franckowiak, A., Halzen, F., Mező, Gy. (2023): Searching for temporary gamma-ray dark blazars associated with IceCube neutrinos. In A&A, 679, 46 (IF:6.5)
https://www.aanda.org/articles/aa/full_html/2023/11/aa46710-23/aa46710-23.html
32. **Kun, E.**, Medveczky, A. (2023): Multiwavelength Analysis of the IceCube Neutrino Source Candidate Blazar PKS 1424+240. In Symmetry, 15, 270 (IF:2.940)
<https://www.mdpi.com/2073-8994/15/2/270>
33. Britzen, S., Zajacek, M., Gopal-Krishna, Fendt, C., **Kun, E.**, Haron, F., Sillanpää, A., Eckart, Andreas (2023): Precession-induced Variability in AGN Jets and OJ 287. In ApJ, 951, 106 (IF:5.521)
<https://iopscience.iop.org/article/10.3847/1538-4357/acbbbc>
34. Britzen, Silke; Zajaček, Michal; Gopal-Krishna; Fendt, Christian; **Kun, Emma**; Jaron, Frédéric; Sillanpää, Aimo; Eckart, Andreas (2023): Precession-induced Variability in AGN Jets and OJ 287. In ApJ, 951, 106 (IF:5.521)
<https://iopscience.iop.org/article/10.3847/1538-4357/acbbbc>
35. Benke, P.; Gabányi, K. É.; Frey, S.; An, T.; Gurvits, L. I.; **Kun, E.**; Mohan, P.; Paragi, Z.: From binary to singular (2023): The AGN PSO J334.2028+1.4075 under the high-resolution scope. In A&A, 677, 1 (IF:6.5)
https://www.aanda.org/articles/aa/full_html/2023/09/aa46904-23/aa46904-23.html
36. Britzen, Silke; Krishna, Gopal; **Kun, E.**; Olivares, Héctor; Pashchenko, Ilya; Jaron, Frédéric; González, Josefa Becerra; Paneque, David (2023): Detection of a Peculiar Drift in the Nuclear Radio Jet of the TeV Blazar Markarian 501. In Univ, 9, 115 (IF: 2.9)
<https://www.mdpi.com/2218-1997/9/3/115>
37. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2023): Search for neutrino lines from dark matter annihilation and decay with IceCube. In PhRvD, 108, 2004 (IF:5.407)
<https://journals.aps.org/prd/abstract/10.1103/PhysRevD.108.102004>
38. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2023): IceCat-1: The IceCube Event Catalog of Alert Tracks. In ApJS, 269, 25 (IF:8.7)
<https://iopscience.iop.org/article/10.3847/1538-4365/acfa95>
39. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2023): Searches for connections between dark matter and high-energy neutrinos with IceCube. In JCAP, 10, 003 (IF:6.4)
<https://iopscience.iop.org/article/10.1088/1475-7516/2023/10/003>
40. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2023): Search for Extended Sources of Neutrino Emission in the Galactic Plane with IceCube. In ApJ, 956, 20 (IF:5.521)

<https://iopscience.iop.org/article/10.3847/1538-4357/acf713>

41. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2023): Observation of seasonal variations of the flux of high-energy atmospheric neutrinos with IceCube. In EPJC, 83, 777 (IF:4.4)
<https://link.springer.com/article/10.1140/epjc/s10052-023-11679-5>
42. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2023): Search for sub-TeV Neutrino Emission from Novae with IceCube-DeepCore. In ApJ, 953, 160 (IF:5.521)
<https://iopscience.iop.org/article/10.3847/1538-4357/acdc1b>
43. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2023): Measurement of atmospheric neutrino mixing with improved IceCube DeepCore calibration and data processing. In PhRvD, 108, 012014 (IF:5.407)
<https://journals.aps.org/prd/abstract/10.1103/PhysRevD.108.012014>
44. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2023): Constraints on Populations of Neutrino Sources from Searches in the Directions of IceCube Neutrino Alerts. In ApJ, 951, 45 (IF:5.521)
<https://iopscience.iop.org/article/10.3847/1538-4357/acd2ca>
45. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2023): Observation of high-energy neutrinos from the Galactic plane. In Science, 380, 1338 (IF:63.832)
<https://www.science.org/doi/10.1126/science.adc9818>
46. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2023): Constraining High-energy Neutrino Emission from Supernovae with IceCube. In ApJ, 949, 12 (IF:5.521)
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47. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2023): Searches for Neutrinos from Large High Altitude Air Shower Observatory Ultra-high-energy Gamma-Ray Sources Using the IceCube Neutrino Observatory. In ApJ, 945, 8 (IF:5.521)
<https://iopscience.iop.org/article/10.3847/2041-8213/acb933/meta>
48. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2023): A Search for Coincident Neutrino Emission from Fast Radio Bursts with Seven Years of IceCube Cascade Events. In ApJ, 946, 80 (IF:5.521)
<https://iopscience.iop.org/article/10.3847/1538-4357/acbea0>
49. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2023): Limits on Neutrino Emission from GRB 221009A from MeV to PeV Using the IceCube Neutrino Observatory. In ApJ, 946, 26 (IF:5.521)
<https://iopscience.iop.org/article/10.3847/2041-8213/acc077>
50. Britzen, S., Krishna, G., **Kun, E.**, Olivares, H., Paschenko, I., Jaron, F., González, J. B., Paneque, D. (2023): Detection of a Peculiar Drift in the Nuclear Radio Jet of the TeV Blazar Markarian 501. In Universe, 9, 115 (IF:2.9)
<https://www.mdpi.com/2218-1997/9/3/115>
51. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2023): IceCube Search for Neutrinos Coincident with Gravitational Wave Events from LIGO/Virgo Run O3. In ApJ, 944,

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<https://iopscience.iop.org/article/10.3847/1538-4357/ac9cce>
53. **Kun, E.**, Bartos, I., Becker Tjus, J., Biermann, P. L., Franckowiak, A., Halzen, F. (2022): Multiwavelength Search for the Origin of IceCube's Neutrinos. In *ApJ*, 934, 180 (IF:5.521)
<https://iopscience.iop.org/article/10.3847/1538-4357/ac7f3a>
54. **Kun, E.**, Biermann, P.L.; Gergely, L. Á. (2022): Searching for high-energy neutrino emitter active galactic nuclei. The Fifteenth Marcel Grossmann Meeting on General Relativity. Edited by E. S. Battistelli, R.T. Jantzen, and R. Ruffini. Published by World Scientific Publishing Co. Pte. Ltd., 2022. ISBN #9789811258251, pp. 1717-1722
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55. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2022): Evidence for neutrino emission from the nearby active galaxy NGC 1068. In *Science*, 378, 538 (IF: 63.714)
<https://www.science.org/doi/10.1126/science.abg3395>
56. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2022): Search for quantum gravity using astrophysical neutrino flavour with IceCube. In *Nature Physics*, 18, 1287 (IF: 19.684)
<https://www.nature.com/articles/s41567-022-01762-1>
57. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2022): Search for Unstable Sterile Neutrinos with the IceCube Neutrino Observatory. In *Phys. Rev. Letters*, 129, 1801 (IF:9.185)
<https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.129.151801>
58. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2022): Search for Astrophysical Neutrinos from 1FLE Blazars with IceCube. In *ApJ*, 938, 38 (IF:5.521)
<https://iopscience.iop.org/article/10.3847/1538-4357/ac8de4/meta>
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60. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2022): Density of GeV muons in air showers measured with IceTop. In *Phys. Rev. D.*, 106, 2010 (IF:5.407)
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61. Albert, A. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2022): Search for Spatial Correlations of Neutrinos with Ultra-high-energy Cosmic Rays. In *ApJ*, 934, 164 (IF:5.521)
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62. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2022): Strong Constraints on Neutrino Nonstandard Interactions from TeV-Scale $\nu\mu$ Disappearance at IceCube. In *Phys. Rev. Letters*, 129, 1804 (IF:9.185)
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63. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2022): Search for neutrino emission from cores of active galactic nuclei. In *Phys. Rev. D.*, 106, 2005 (IF:5.407)
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65. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2022): Search for GeV-scale dark matter annihilation in the Sun with IceCube DeepCore. In *PhRvD*, 105, 062004 (IF:5.296)
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66. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2022): Improved Characterization of the Astrophysical Muon-neutrino Flux with 9.5 Years of IceCube Data. In *ApJ*, 928, 50 (IF:5.521)
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67. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2022): Search for Relativistic Magnetic Monopoles with Eight Years of IceCube Data. In *PhRvL*, 128, 051101 (IF:9.161)
<https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.128.051101>
68. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2022): Search for High-energy Neutrinos from Ultraluminous Infrared Galaxies with IceCube. In *ApJ*, 926, 59 (IF:5.521)
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2021

69. **Kun, E.**, Bartos, I., Becker-Tjus, J., Biermann, P. L., Halzen, F., Mező, Gy. (2021): Cosmic Neutrinos from Temporarily Gamma-suppressed Blazars. In *ApJ*, 911L, 18 (IF:5.874)
<https://iopscience.iop.org/article/10.3847/2041-8213/abf1ec>
70. Veres, P. M., Gabányi, K. É., Frey, S., Paragi, Zs. , **Kun, E.**, An, Tao (2021): European VLBI Network Observations of the Proposed Dual AGN SDSS J101022.95+141300.9. In *ApJ*, 922, 99 (IF:5.874)
<https://iopscience.iop.org/article/10.3847/1538-4357/ac307d>
71. Abbasi R. et al. (**Kun, E.**, as part of the IceCube Collaboration, 2021): Search for Multi-flare Neutrino Emissions in 10 yr of IceCube Data from a Catalog of Sources. In *ApJ*, 920, 45 (IF:5.874)
<https://iopscience.iop.org/article/10.3847/2041-8213/ac2c7b>

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<https://academic.oup.com/mnras/article-abstract/496/3/3336/5859499>
73. **Kun, E.**, Keresztes, Z., Gergely, L. Á. (2020): Slowly rotating Bose–Einstein condensate compared with the rotation curves of 12 dwarf galaxies. In *A&A*, 633, 75 (IF:5.636)
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2019

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