

List of papers in Impact Journals in 2019

1. ABDUJABBAROV, A.; HAKIMOV, A.; TURIMOV, B.; TURSUNOV, A.: Effects of geometric optics in conformal Weyl gravity. *Arabian Journal of Mathematics*, 8(4), pp. 259–267, special issue. DOI: 10.1007/s40065-019-0257-5. IF2018.
2. ARAI, M.; BLASCHKE, F.; ETO, M.; SAKAI, N.: Massless bosons on domain walls: Jackiw-Rebbi-like mechanism for bosonic fields. *Physical Review D*, 100(9):095014. DOI: 10.1103/PhysRevD.100.095014. IF2018:4,368 (Q1).
3. BAKALA, P.; DE FALCO, V.; BATTISTA, E.; GOLUCHOVÁ, K.; LANČOVÁ, D.; FALANGA, M.; STELLA, L.: Three-dimensional general relativistic Poynting-Robertson effect. II. Radiation field from a rigidly rotating spherical source. *Physical Review D*, 100(10):104053. DOI: 10.1103/PhysRevD.100.104053. IF2018:4,368 (Q1).
4. BREUS, V.; PETRIK, K.; ZOLA, S.: Detection of white dwarf spin period variability in the intermediate polar V2306 Cygni. *Monthly Notices of the Royal Astronomical Society*, 488(4), pp. 4526–4529. DOI:10.1093/mnras/stz2062. IF2018:5,231 (Q1).
5. CASADIO, R.; CONTRERAS, E.; OVALLE, J.; SOTOMAYOR, A.; STUHLÍK, Z.: Isotropization and change of complexity by gravitational decoupling. *European Physical Journal C*, 79(10):826. DOI:10.1140/epjc/s10052-019-7358-3 IF2018:4,843 (Q1).
6. CREMASCHINI, C.; TESSAROTTO, M.: Hamilton-Jacobi Wave Theory in Manifestly-Covariant Classical and Quantum Gravity. *Symmetry-Basel*, 11(4):592. DOI: 10.3390/sym11040592. IF2018:2,143 (Q2).
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8. DE FALCO, V.; BATTISTA, E.: Analytical Rayleigh potential for the general relativistic Poynting-Robertson effect. *EPL*, 127(3):30006. DOI: 10.1209/0295-5075/127/30006. IF2018:1,886 (Q2).
9. DE ROSA, A.; UTTLEY, P.; GOU, L. J.; LIU, Y.; BAMBI, C.; BARRET, D.; BELLONI, T.; BERTI, E.; BIANCHI, S.; CAIAZZO, I.; CASELLA, P.; FEROCI, M.; FERRARI, V.; GUALTIERI, L.; HEYL, J.; INGRAM, A.; KARAS, V.; LU, F. J.; LUO, B.; MATT, G.; MOTTA, S.; NEILSEN, 77J.; PANI, P.; SANTANGELO, A.; SHU, X. W.; WANG, J. F.; WANG, J. M.; XUE, Y. Q.; XU, Y. P.; YUAN, W. M.; YUAN, Y. F.; ZHANG, S. N.; ZHANG, S.; AGUDO, I.; AMATI, L.; ANDERSSON, N.; BAGLIO, C.; BAKALA, P.; BAYKAL, A.; BHATTACHARYA, S.; BOMBACI, I.; BUCCIANTINI, N.; CAPITANIO, F.; CIOLFI, R.; CUI, W. K.; D'AMMANDO, F.; DAUSER, T.; DEL SANTO, M.; DE MARCO, B.; DI SALVO, T.; DONE, C.; DOVCIK, M.; FABIAN, A. C.; FALANGA, M.; GAMBINO, A. F.; GENDRE, B.; GRINBERG, V.; HEGER, A.; HOMAN, J.; IARIA, R.; JIANG, J. C.; JIN, C. C.; KOERDING, E.; LINARES, M.; LIU, Z.; MACCARONE, T. J.; MALZAC, J.; MANOUSAKIS, A.; MARIN, F.; MARINUCCI, A.; MEHDIPOUR, M.; MENDEZ, M.; MIGLIARI, S.; MILLER, C.; MINIUTTI, G.; NARDINI, E.; O'BRIEN, P. T.; OSBORNE, J. P.; PETRUCCI, P. O.; POSSENTI, A.; RIGGIO, A.; RODRIGUEZ, J.; SANNA, A.; SHAO, L. J.; SOBOLEWSKA, M.; ŠRÁMKOVÁ, E.; STEVENS, A. L.; STIELE, H.; STRATTA, G.; STUHLÍK, Z.; SVOBODA, J.; TAMBURINI, F.; TAURIS, T. M.; TOMBESI, F.; TÖRÖK, G.; URBANEC, M.; VINCENT, F.; WU, Q. W.; YUAN, F.; IN'T ZAND, J. J. M.; ZDZIARSKI, A. A.; ZHOU, X. L.: Accretion in strong field gravity with eXTP. *Science China—Physics Mechanics & Astronomy*, 62(2):029504, special issue. DOI: 10.1007/s11433-018-9297-0. IF2018:3,986 (Q1).

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14. HENSH, S.; ABDUJABBAROV, A.; SCHEE, J.; STUHLÍK, Z.: Gravitational lensing around Kehagias-Sfetsos compact objects surrounded by plasma. *European Physical Journal C*, 79(6):533. DOI:10.1140/epjc/s10052-019-7034-7. IF2018:4,843 (Q1).
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16. KONOPLYA, R. A.: Shadow of a black hole surrounded by dark matter. *Physics Letters B*, 795, pp. 1–6. DOI: 10.1016/j.physletb.2019.05.043. IF2018:4,162 (Q2).
17. KONOPLYA, R. A.; POSADA, C.; STUHLÍK, Z.; ZHIDENKO, A.: Stable Schwarzschild stars as black-hole mimickers. *Physical Review D*, 100(4):044027. DOI: 10.1103/PhysRevD.100.044027. IF2018:4,368 (Q1).
18. KONOPLYA, R. A.; STUHLÍK, Z.; ZHIDENKO, A.: Echoes of compact objects: New physics near the surface and matter at a distance. *Physical Review D*, 99(2):024007. DOI: 10.1103/PhysRevD.99.024007. IF2018:4,368 (Q1, Highly Cited Paper).
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20. KONOPLYA, R. A.; ZHIDENKO, A.; ZINHAILO, A. F.: Higher order WKB formula for quasinormal modes and grey-body factors: recipes for quick and accurate calculations. *Classical and Quantum Gravity*, 36(15):155002. DOI: 10.1088/1361-6382/ab2e25. IF2018: 3,487 (Q1).
21. KONOPLYA, R. A.; ZINHAILO, A. F.: Hawking radiation of non-Schwarzschild black holes in higher derivative gravity: A crucial role of grey-body factors. *Physical Review D*, 99(10):104060. DOI:10.1103/PhysRevD.99.104060. IF2018:4,368 (Q1).

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23. KOPTEVA, E.; BORMOTOVA, I.; CHURILOVA, M.; STUCHLÍK, Z.: Accelerated Expansion of the Universe in the Model with Non-Uniform Pressure. *Astrophysical Journal*, 887(1):98. DOI: 10.3847/1538-4357/ab4f7f. IF2018:5,58 (Q1).
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34. SCHEE, J.; STUHLÍK, Z.: Effective Geometry of the Bardeen Spacetimes: Gravitational Lensing and Frequency Mapping of Keplerian Disks. *Astrophysical Journal*, 874(1):12. DOI: 10.3847/1538-4357/ab04f3. IF2018:5,58 (Q1).
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42. TURIMOV, B.; TOSHMATOV, B.; AHMEDOV, B.; STUHLÍK, Z.: Quasinormal modes of magnetized black hole. *Physical Review D*, 100(8):084038. DOI: 10.1103/PhysRevD.100.084038. IF2018:4,368 (Q1).
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47. WATTS, A. L.; YU, W. F.; POUTANEN, J.; ZHANG, S.; BHATTACHARYA, S.; BOGDANOV, S.; JI, L.; PATRUNO, A.; RILEY, T. E.; BAKALA, P.; BAYKAL, A.; BERNARDINI, F.; BOMBACI, I.; BROWN, E.; CAVECCHI, Y.; CHAKRABARTY, D.; CHENEVEZ, J.; DEGENAAR, N.; DEL SANTO, M.; DI SALVO, T.; DOROSHENKO, V.; FALANGA, M.; FERDMAN, R. D.; FEROCI, M.; GAMBINO, A. F.; GE, M. Y.; GREIF, S. K.; GUILLOT, S.; GUNGOR, C.; HARTMANN, D. H.; HEBELER, K.; HEGER, A.; HOMAN, J.; IARIA, R.; IN 'T; ZAND, J.; KARGALTSEV, O.; KURKELA, A.; LAI, X. Y.; LI, A.; LI, X. D.; LI, Z. S.; LINARES, M.; LU, F. J.; MAHMOODIFAR, S.; MENDEZ, M.; MILLER, M. C.; MORSINK, S.; NATTILA, J.; POSSENTI, A.; PRESCOD- WEINSTEIN, C.; QU, J. L.; RIGGIO, A.; SALMI, T.; SANNA, A.; SANTANGELO, A.; SCHATZ, H.; SCHWENK, A.; SONG, L. M.; ŠRÁMKOVÁ, E.; STAPPERS, B.; STIELE, H.; STROHMAYER, T.; TEWS, I.; TOLOS, L.; TÖRÖK, G.; TSANG, D.; URBANEC, M.; VACCHI, A.; XU, R. X.; XU, Y. P.; ZANE, S.; ZHANG, G. B.; ZHANG, S. N.; ZHANG, W. D.; ZHENG, S. J.; ZHOU, X.: Dense matter with eXTP. *Science China—Physics Mechanics & Astronomy*, 62(2):029503, special issue. DOI: 10.1007/s11433-017-9188-4. IF2018:3,986 (Q1, Highly Cited Paper).
48. WOLF, M.; ZASCHE, P.; KUCAKOVA, H.; MASEK, M.; HONKOVA, K.; JURYSEK, J.; PASCHKE, A.; SMELCER, L.; ZEJDA, M.: Triple Eccentric Systems V0345 Lac, YY Sgr, and DR Vul. *Acta Astronomica*, 69(1), pp. 63–78. DOI:10.32023/0001-5237/69.1.5. IF2018:2,64 (Q2).
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50. ZINHAILO, A. F.: Quasinormal modes of Dirac field in the Einstein-Dilaton-Gauss-Bonnet and Einstein- Weyl gravities. *European Physical Journal C*, 79(11):912. DOI: 10.1140/epjc/s10052-019-7425-9 IF2018:4,843 (Q1).

Articles in peer-reviewed proceedings

1. AHMEDOV, B.; TURIMOV, B.; STUHLÍK, Z.; TURSUNOV, A.:Optical properties of magnetized black hole in plasma. International Journal of Modern Physics: Conference Series, 49:1960018.DOI:10.1142/S2010194519600188.
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3. ECKART, A.; TURSUNOV, A.; ZAJACEK, M.; PARSA, M.; HOSSEINI, E.; SUBROWEIT, M.; PEISSKER, F.; STRAUBMEIER, C.; HORROBIN, M.; KARAS, V.:Mass, Distance, Spin, Charge, and Orientation of the super massive black hole SgrA. Proceedings of Science, 342:048. Dostupné z:<https://pos.sissa.it/342/048/>.
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5. STUHLÍK, Z.; KOLOŠ, M.; TURSUNOV, A.:Magnetized Black Holes: Ionized Keplerian Disks and Acceleration of Ultra-High Energy Particles. Proceedings 2019, 17(1):13 (2019). DOI:10.3390/proceedings2019017013.
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