

List of papers in Impact Journals in 2024

1. **Abdulkhamidov F.**, Narzilloev B., Hussain I., Abdujabbarov A., Ahmedov B., *Explaining QPOs data for black holes in the Starobinsky-Bel-Robinson gravity*, 84, 4, 2024, (IF: 4,2)
2. **Abdulkhamidov F.**, Nedkova P., Rayimbaev J., Kunz J., Ahmedov B. , *Parameter constraints on traversable wormholes within beyond Horndeski theories through quasiperiodic oscillations*, PHYSICAL REVIEW D, 109, 10, 2024, (IF: 4,6)
3. **Bardiev D.**, Wang Y., **Kološ M.**, Ahmedov B. , *GRMHD Simulations of Accretion Structures with Different Angular Momentum Profiles*, ASTROPHYSICAL JOURNAL, 972, 1, 2024, (IF: 4,8)
4. Beltracchi P., **Posada C.**, *Slowly rotating anisotropic relativistic stars*, PHYSICAL REVIEW D, 110, 2, 2024, (IF: 4,6)
5. Beltracchi P., **Posada C.**, *Slowly rotating ultra-compact Schwarzschild star in the gravastar limit*, CLASSICAL AND QUANTUM GRAVITY, 41, 4, 2024, (IF: 3,6)
6. Bezbakh A.A., Golovkov M.S., Denikin A.S., Wolski R., Belogurov S.G., Biare D., **Chudoba V.**, Fomichev A.S., Gazeeva E.M., Gorshkov A.V., Kaminski G., Khamidullin B.R., Khirk M., Krupko S.A., Mauey B., **Muzalevskii I.A.**, Piatek W., Quynh A.M., Sidorchuk S.I., Slepnev R.S., Swiercz A., Ter-Akopian G.M., Zalewski B. , *Properties of the ^7He ground state studied by the $^6\text{He}(d,p)^7\text{He}$ reaction*, INTERNATIONAL JOURNAL OF MODERN PHYSICS E, 22, 01N02, 2024, (IF: 1)
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8. Boshkayev K., Nurbakyt G., Quevedo H., Suliyeva G., **Tlemissov A.**, **Tlemissova Z.**, Dalelkhankyzy A., Taukenova A., Urazalina A., **Stuchlík Z.**, Beissen N., Gumarova S. , *Adiabatic theory in Kerr spacetimes*, GENERAL RELATIVITY AND GRAVITATION, 56, 5, 2024, (IF: 2,1)
9. Britzen S., Kovačević A.B., Zajaček M., Popović L.C., Pashchenko I.N., Kun E., **Pánis R.**, Jaron F., Plšek T., **Tursunov A.**, **Stuchlík Z.** , *icecube AGN neutrino candidate PKS 1717+177: dark deflector bends nuclear jet*, MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, 535, 3, 2024, (IF: 4,8)
10. Casadio R., Kamenshchik A., **Ovalle J.**, *Cosmology from Schwarzschild black hole revisited*, PHYSICAL REVIEW D, 110, 4, 2024, (IF: 4,6)
11. Casadio R., Kamenshchik A., **Ovalle J.**, *From black hole mimickers to black holes*, PHYSICAL REVIEW D, 109, 2, 2024, (IF: 4,6)
12. Dall’Osso S., La Placa R., Stella L., **Bakala P.**, Possenti A. , *Gravitational Self-lensing of Fast Radio Bursts in Neutron Star Magnetospheres. I. The Model*, ASTROPHYSICAL JOURNAL, 973, 2, 2024, (IF: 4,8)
13. Davlataliev A., Rayimbaev J., **Abdulkhamidov F.**, **Stuchlik Z.**, Abdujabbarov A. , *Circular motion and collisions of charged spinning particles near Kerr Newman black holes*, PHYSICS OF THE DARK UNIVERSE, 46, December 2024, 2024, (IF: 5)
14. **Churilova M.**, **Kološ M.**, **Stuchlík Z.**, *String loop vibration around Schwarzschild black hole*, EUROPEAN PHYSICAL JOURNAL C, 84, 1, 2024, (IF: 4,2)
15. Clark J.G., Hornoch K., Shafter A.W., **Kučáková H.**, Vraštil J., Kušnirák P., Wolf M. , *Exploring the Maximum Magnitude versus Rate of Decline Relation for Novae in M31*, ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES, 272, 2, 2024, (IF: 8,6)

16. **Cremašchini C., Kovář J.**, *Statistical characterization of the collective synchrotron radiation power emitted by non-ideal magnetized plasma fluids in relativistic jets*, PHYSICS OF FLUIDS, 36, 3, 2024, (IF: 4,1)
17. **Cremašchini C., Tessarotto M.**, *Planck Length Emerging as the Invariant Quantum Minimum Effective Length Determined by the Heisenberg Uncertainty Principle in Manifestly Covariant Quantum Gravity Theory*, SYMMETRY-BASEL, 16, 8, 2024, (IF: 2,2)
18. Dubinsky A., **Zinhailo A.**, *Asymptotic decay and quasinormal frequencies of scalar and Dirac fields around dilaton-de Sitter black holes*, EUROPEAN PHYSICAL JOURNAL C, 84, 8, 2024, (IF: 4,2)
19. Feroci M., Ambrosi G., Antonelli M., Argan A., Babinec V., Barbera M., Bastia P., Bayer J., Bellutti P., Bertucci B., Bertuccio G., Bonfitto F., Bonvicini V., Bozzo E., Baudin D., Bouyjou F., Brienza D., Cadoux F., Campana R., Candia R., Cao J., Cavazzuti E., Ceraudo F., Chen T., Chen W., Coimbra A., Colucci A., Cong X., Cirrincione D., De Angelis N., De Rosa A., Della Casa G., Del Monte E., Di Cicca G., Di Cosimo S., Dilillo G., Dohnal R., Donnarumma I., Evangelista Y., Fan P., Fan Q., Favre Y., Fiandrini E., Ficorella F., Gao N., Gevin O., Grassi M., Guedel M., Cabrera A.G., Han D., He H., Hedderman P., den Herder J.-W., Hynek R., Kole M.R., Karas V., Komarek M., Labanti C., La Marra D., Lesci G., Li G., Li L., Li T., Limousin O., Liu H., Liu R., Liu Y., Liu X., Cicero U.L., Loehring J., Lombardi G., Lu F.-J., Luo T., Malcovati P., Marinucci A., Mele F., Mendes V., Merkl M., Meuris A., Michalska M., Morbidini A., Morgante G., Muleri F., Munini R., Mussolin L., Negri B., Novák P., Nowosielski W., Nuti A., Orleanski P., Ottensamer R., Pacciani L., Paltani S., Pan T., Pepponi G., Perinati E., Piazzolla R., Picciotto A., Pliego S., Putz A., Rachevski A., Rashevskaja I., Samusenko A., Santangelo A., Schanne S., Serafinelli R., Skup K., Sveda L., Svoboda J., Tenzer C., Todaro M., **Torok G.**, Trois A., Vacchi A., Varisco S., Villa F., Virgili E., Xiang H., Xiong H., Wang J., Wang X., Winter B., Wu Z., Wu X., Xu Y., Zampa G., Zampa N., Zdziarski A.A., Zhang L., Zhang S., Zhang S.-N., Zhang Y., Zhang W., Zhao Q., Zhu C., Zhu X., Zorzi N., *The Large Area Detector for the eXTP mission*, SPACE TELESCOPES AND INSTRUMENTATION 2024: ULTRAVIOLET TO GAMMA RAY, PT 1, 13093, 2024, 2024, (IF:)
20. Golovkov M.S., Bezbakh A.A., Denikin A.S., Wolski R., Belogurov S.G., Biare D., **Chudoba V.**, Gazeeva E.M., Gorshkov A.V., Kaminski G., Khamidullin B.R., Krupko S.A., Mauey B., **Muzalevskii I.A.**, Piatek W., Quynh A.M., Slepnev R.S., Swiercz A., Szymkiewicz P., Zalewski B., *Observation of a positive-parity wave in the low-energy spectrum of ^7He* , PHYSICAL REVIEW C, 109, 6, 2024, (IF: 3,2)
21. **Charbulák D., Stuchlík Z.**, *Light escape cones in the locally nonrotating reference frames of the Kerr-de Sitter superspinars and related superspinar shadows*, Physical Review D, 110, 12, 2024, (IF: 4,6)
22. **Juraev B., Stuchlík Z., Tursunov A., Kološ M.**, *Radiating particles accelerated by a weakly charged Schwarzschild black hole*, JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS, 2024, 9, 2024, (IF: 5,3)
23. Kayanikhoo F., **Čemeljić M., Wielgus M.**, Kluźniak W., *Energy distribution and substructure formation in astrophysical MHD simulations*, MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, 527, 4, 2024, (IF: 4,8)
24. **Karpíšek O.N., Rafaj L., Blaschke F.**, *Scattering of Kinks in Coreless Potentials*, PROGRESS OF THEORETICAL AND EXPERIMENTAL PHYSICS, 2024, 11, 2024, (IF: 6,2)

25. Kenzhebayeva S., Toktarbay S., **Tursunov A., Kološ M.**, *Black hole in a combined magnetic field: Ionized accretion disks in the jetlike and looplike configurations*, PHYSICAL REVIEW D, 109, 6, 2024, (IF: 4,6)
26. **Konoplya R.A.**, *Two regimes of asymptotic fall-off of a massive scalar field in the Schwarzschild-de Sitter spacetime*, PHYSICAL REVIEW D, 109, 10, 2024, (IF: 4,6)
27. **Konoplya R.A.**, Zhidenko A., *Asymptotic tails of massive gravitons in light of pulsar timing array observations*, PHYSICS LETTERS B, 853, June 2024, 2024, (IF: 4,3)
28. **Konoplya R.A.**, Zhidenko A., *Dymnikova black hole from an infinite tower of higher-curvature corrections*, PHYSICS LETTERS B, 856, September 2024, 2024, (IF: 4,3)
29. **Konoplya R.A.**, Zhidenko A., *Correspondence between grey-body factors and quasinormal modes*, JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS, 2024, 9, 2024, (IF: 5,3)
30. **Konoplya R.A.**, Zhidenko A., *First few overtones probe the event horizon geometry*, JOURNAL OF HIGH ENERGY ASTROPHYSICS, 44, November 2024, 2024, (IF:10,2)
31. **Konoplya R.A.**, Zhidenko A., *Infinite tower of higher-curvature corrections: Quasinormal modes and late-time behavior of D -dimensional regular black holes*, PHYSICAL REVIEW D, 109, 10, 2024, (IF: 4,6)
32. **Konoplya R.A.**, Zhidenko A., *Overtones' outburst of asymptotically AdS black holes*, PHYSICAL REVIEW D, 109, 4, 2024, (IF: 4,6)
33. **Matuszková M., Török G., Klimovičová K., Horák J., Straub O., Šrámková E., Lančová D., Urbanec M.**, Urbancová G., Karas V., *Accretion tori around rotating neutron stars: II. Oscillations and precessions*, ASTRONOMY & ASTROPHYSICS, 691, November 2024, 2024, (IF: 5,4)
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35. Mitra S., **Vrba J.**, Rayimbaev J., **Stuchlík Z.**, Ahmedov B. , *Charged particles and quasiperiodic oscillations in Black-bounce-Reissner-Nordström geometry in braneworlds*, PHYSICS OF THE DARK UNIVERSE, 46, December 2024, 2024, (IF: 5)
36. Murodov S., Badalov K., Rayimbaev J., Ahmedov B., **Stuchlík Z.** , *Charged Particles Orbiting Charged Black-Bounce Black Holes*, SYMMETRY-BASEL, 16, 1, 2024, (IF: 2,2)
37. **Nakas, T., Pappas, T., Stuchlík, Z.**, *Bridging dimensions: General embedding algorithm and field-theory reconstruction in 5D braneworld models*, PHYSICAL REVIEW D, 109, 4, 2024, (IF: 4,6)
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39. **Ovalle J.**, *Schwarzschild black hole revisited: Before the complete collapse*, PHYSICAL REVIEW D, 109,10, 2024, (IF: 4,6)
40. Paraschos G.F., **Wielgus M.**, Benke P., Mpisketzis V., Rösch F., Dasyra K., Ros E., Kadler M., Ojha R., Edwards P.G., Hyland L., Quick J.F.H., Weston S. , *First very long baseline interferometry detection of Fornax A*, ASTRONOMY & ASTROPHYSICS, 687, July 2024, 2024, (IF: 5,4)
41. Paraschos G.F., Kim J.-Y., **Wielgus M.**, Röder J., Krichbaum T.P., Ros E., Agudo I., Myserlis I., Moscibrodzka M., Traianou E., Zensus J.A., Blackburn L., Chan C.-K., Issaoun S., Janssen M., Johnson M.D., Fish V.L., Akiyama K., Alberdi A., Alef W., Algaba J.C., Anantua R., Asada K., Azulay R., Bach U., Baczko A.-K., Ball D., Baloković M., Barrett J., Bauböck

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43. **Pugliese D., Stuchlík Z.**, *Inter-disks inversion surfaces*, EUROPEAN PHYSICAL JOURNAL C, 84,10, 2024, (IF: 4,2)
44. **Pugliese D., Stuchlík Z.**, *Inversion points of the accretion flows onto super-spinning Kerr attractors*, EUROPEAN PHYSICAL JOURNAL C, 84, 2, 2024, (IF: 4,2)
45. **Pugliese D., Stuchlík Z.**, *On dark energy effects on the accretion physics around a Kiselev spinning black hole*, EUROPEAN PHYSICAL JOURNAL C, 84, 5, 2024, (IF: 4,2)
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49. **Pugliese D., Stuchlík Z.,** Karas V., *On the Viscous Ringed Disk Evolution in the Kerr Black Hole Spacetime*, 10, 12, 2024, (IF: 2,5)
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51. Rayimbaev J., Ahmedov B., **Stuchlík Z.,** *Particles with magnetic dipole moment orbiting magnetized Schwarzschild black holes: Applications to orbits of hot-spots around Sgr A**, PHYSICS OF THE DARK UNIVERSE, 45, July 2024, 2024, (IF: 5)
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53. Sati M., Petwal K.C., Pigazzini A., Ozel C., Bisht M.S., Linker P., Pincak R., **Jaluvkova P.,** *Emerging electric or magnetic parts of Weyl tensor*, INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, 21, 1, 2024, (IF: 2,1)
54. Shahzadi M., **Kološ M.,** Saleem R., **Stuchlík Z.,** *Testing alternative spacetimes by high-frequency quasi-periodic oscillations observed in microquasars and active galactic nuclei*, CLASSICAL AND QUANTUM GRAVITY, 41, 7, 2024, (IF: 3,6)
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58. **Stuchlík Z., Kološ M., Tursunov A.,** Gal'tsov D., *On the Role of the Tail Term in Electromagnetic Radiation Reaction*, UNIVERSE, 10, 6, 2024, (IF: 2,5)
59. **Stuchlík Z., Vrba J., Kološ M., Tursunov A.,** *Radiative back-reaction on charged particle motion in the dipole magnetosphere of neutron stars*, JOURNAL OF HIGH ENERGY ASTROPHYSICS, 44, November 2024, 2024, (IF: 10,2)
60. **Tlemissov A., Kovář J.,** *Egg-shaped sections of fluid structures around black holes*, 84, 10, 2024, (IF: 4,2)
61. Vieira R.S.S., **Wielgus M.,** *Particle motion around luminous neutron stars: Effects of deviation from Schwarzschild spacetime*, PHYSICAL REVIEW D, 110, 6, 2024, (IF: 4,6)
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67. Yunusov, O., Rayimbaev, J., Sarikulov, F., Zahid, M., Abdujabbarov, A., **Stuchlik, Z.**, *Rotating charged black holes in EMS theory: shadow studies and constraints from EHT observations*, EUROPEAN PHYSICAL JOURNAL C, 84, 12, 2024, (IF: 4,2)
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Proceedings Paper

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