

Výběr z publikační činnosti za rok 2023

Články v impaktovaných časopisech včetně impaktového faktoru

1. Abdulkhamidov, F.; Rayimbaev, J.; Abdujabbarov, A.; **Stuchlik, Z.**; *Spinning magnetized particles orbiting magnetized Schwarzschild black holes*, PHYSICAL REVIEW D, 108, 4, 2023, (IF: 5)
2. **Bakala, P.**; Bakalova, A.; La Placa, R.; Falanga, M.; Stella, L.; *Extreme amplification regimes of the Schwarzschild gravitational lens*, ASTRONOMY & ASTROPHYSICS, 673, May 2023, 2023, (IF: 6,5)
3. Benes, P; **Blaschke, F.**; *Shapes of magnetic monopoles in effective SU(2) models*, PHYSICAL REVIEW D, 107, 12, 2023, (IF: 5)
4. **Bezbxakh, A. A.**; Belogurov, S. G.; **Chudoba, V.**; Fomichev, A. S.; Gorshkov, A. V.; Grigorenko, L. V.; Kaminski, G.; Khirk, M. S.; Knyazev, A. G.; Krupko, S. A.; Mauvey, B.; **Muzalevskii, I. A.**; Nikolskii, E. Yu.; Quynh, A. M.; **Sharov, P. G.**; Slepnev, R.S.; Stepantsov, S. V.; Ter-Akopian, G. M.; Wolski, R.; *Detector Array for the 7H Nucleus Multi-Neutron Decay Study*, PHYSICS OF PARTICLES AND NUCLEI LETTERS, 20, 4, 2023, (IF: 0.5)
5. **Blaschke, F., Karpisek, Ondrej N.; Rafaj, L.**; *Mechanization of a scalar field theory in 1+1 dimensions: Bogomol'nyi-Prasad-Sommerfeld mechanical kinks and their scattering*, PHYSICAL REVIEW E, 108, 4, 2023, (IF: 2,4)
6. Casadio, R.; Giusti, A.; **Ovalle, J.**; *Quantum rotating black holes*, JOURNAL OF HIGH ENERGY PHYSICS, 2023, 5, 2023, (IF: 5,4)
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9. **Cremašchini, C.**; *Planck length in classical and quantum Hamiltonian formulations of general relativity*, EUROPEAN PHYSICAL JOURNAL C, 83, 8, 2023, (IF: 4,4)
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11. **Cremašchini, C.; Kovar, J.; Stuchlik, Z.; Tessarotto, M.**; *Polytropic representation of the kinetic pressure tensor of non-ideal magnetized fluids in equilibrium toroidal structures*, PHYSICS OF FLUIDS, 35, 1, 2023, (IF: 4,6)
12. **Cremašchini, C.; Tessarotto, M.**; *Statistical Formulation of Background Independence in Manifestly-Covariant Quantum Gravity Theory*, SYMMETRY-BASEL, 15, 5, 2023, (IF: 2,7)
13. **Cremašchini, C.; Tessarotto, M.**; *Unconstrained Lagrangian Variational Principles for the Einstein Field Equations*, ENTROPY, 25, 2, 2023, (IF: 2,7)
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23. Kayanikhoo, F.; **Cemeljic, M.**; **Wielgus, M.**; Kluzniak, W.; *Energy dissipation in astrophysical simulations: results of the Orszag-Tang test problem*, MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, 527, 4, 2023, (IF: 4,8)
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25. **Kolos, M.**; Shahzadi, M.; **Tursunov, A.**; *Charged particle dynamics in parabolic magnetosphere around Schwarzschild black hole*, EUROPEAN PHYSICAL JOURNAL C, 83, 4, 2023, (IF: 4,4)
26. **Konoplya, R. A.**; *Further clarification on quasinormal modes/circular null geodesics correspondence*, PHYSICS LETTERS B, 838, March 2023, 2023, (IF: 4,3)
27. **Konoplya, R. A.**; *Quasinormal modes and grey-body factors of regular black holes with a scalar hair from the Effective Field Theory*, JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS, 2023, 7, 2023, (IF: 6,3)
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32. **Toshmatov, B.**; Ahmedov, B.; **Stuchlik, Z.**; *Phonon motion around (2+1)-dimensional acoustic black hole*, EUROPEAN PHYSICAL JOURNAL C, 83, 10, 2023, (IF: 4,4)
33. **Konoplya, R. A.**; **Stuchlik, Z.**; Zhidenko, A.; **Zinhailo, A. F.**; *Quasinormal modes of renormalization group improved Dymnikova regular black holes*, PHYSICAL REVIEW D, 107, 10, 2023, (IF: 5)
34. **Konoplya, R. A.**; Zhidenko, A.; *Analytic expressions for quasinormal modes and grey-body factors in the eikonal limit and beyond*, CLASSICAL AND QUANTUM GRAVITY, 40, 24, 2023, (IF: 3,5)

35. **Konoplya, R. A.**; Zhidenko, A.; *Bernstein spectral method for quasinormal modes of a generic black hole spacetime and application to instability of dilaton-de Sitter solution*, PHYSICAL REVIEW D, 107, 4, 2023, (IF: 5)
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38. Lichard, P.; *New narrow resonance in the $e^+e^- \rightarrow \varphi\eta$ data by the Belle collaboration*, PHYSICAL REVIEW D, 108, 9, 2023, (IF: 5)
39. Martinu, J.; **Novotny, J.**; **Adamek, K.**; **Cermak, P.**; Kozel, J.; Skoloudik, D.; *A survey of feature detection methods for localisation of plain sections of axial brain magnetic resonance imaging*, BIOMEDICAL SIGNAL PROCESSING AND CONTROL, 82, April 2023, 2023, (IF: 5,1)
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48. **Posada, C.**; **Stuchlik, Z.**; *Slowly rotating Tolman VII solution*, CLASSICAL AND QUANTUM GRAVITY, 40, 13, 2023, (IF: 3.5)
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57. **Tessarotto, M.**; **Cremaschini, C.**; *On the Quantum Regularization of Singular Black-Hole Solutions in Covariant Quantum Gravity*, SYMMETRY-BASEL, 15, 6, 2023, (IF: 2,7)
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