

**LIST OF PUBLICATIONS OF BOBOMURAT AHMEDOV**  
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**BOOKS** (authored, translated, edited and/or co-edited):

- (a) A.A. Abdujabbarov, **B.J. Ahmedov**, Photons Motion and Optical Properties of Black holes, Tashkent, 2019, 184 pp.
- (b) **B. Ahmedov** and A. Bokhari, Editors of Mathematical Physics, General Relativity and Relativistic Astrophysics, Part I, The Arabian Journal of Mathematics, Springer, Berlin, (2019) Vol. 8, Issue 3, 161– 254.
- (c) **B. Ahmedov** and A. Bokhari, Editors of Mathematical Physics, General Relativity and Relativistic Astrophysics, Part II, The Arabian Journal of Mathematics, Springer, Berlin, (2019) Vol. 8, Issue 4, 255–334.
- (d) **Ahmedov B.J.**, Plasma Magnetosphere of Magnetize Neutron Stars, Scientific Review, Tashkent, 2014, 65 pp.
- (e) **Ahmedov B.J.**, Lectures on Gravitation Theory and Relativistic Astrophysics, Tashkent, 2010, 250 pp, in Russian.
- (f) **B.J. Ahmedov**, Lecture Notes on General Relativity and Gravitation, National University of Uzbekistan, Tashkent, 2002 (in Russian).
- (g) **B.J. Ahmedov**, Lecture Notes on Relativistic Astrophysics, National University of Uzbekistan, Tashkent, 2003 (in Russian).
- (h) A.A. Abdujabbarov, **B.J. Ahmedov**, Optical and observational properties of black holes, World Scientific, 2021, under preparation.
- (i) A.A. Abdujabbarov, **B.J. Ahmedov**, A.S. Rakhmatov, Modern Status of High Energy Physics and Astrophysics, Renessans Press, Tashkent, 2021, 148 pp, in Uzbek.
- (j) **B. Ahmedov** and A. Bokhari, Editors of Relativistic Astrophysics and Gravitation, IWRAg-2021, The Arabian Journal of Mathematics, Springer, Berlin, (2021) Vol. 10, Special Issue, under preparation.
- (k) **B.J. Ahmedov**, Wenbiao Han, A.A. Abdujabbarov, Editors of Special Issue "Particles and Fields in Black Hole Environment", Galaxies, MDPI (2021) under progress  
[https://www.mdpi.com/journal/galaxies/special\\_issues/black\\_hole\\_environment](https://www.mdpi.com/journal/galaxies/special_issues/black_hole_environment)

(l) U. Camci, **B. Ahmedov** and A. Bokhari, Editors of Special Issue "Noether and Space-Time Symmetries in Physics", *Symmetry*, MDPI (2021) under progress [https://www.mdpi.com/journal/symmetry/special\\_issues/Noether\\_Space-Time\\_Symmetries\\_Physics](https://www.mdpi.com/journal/symmetry/special_issues/Noether_Space-Time_Symmetries_Physics)

## PAPERS/ARTICLES

### (a) **Publications in international refereed journals:**

1. Bakhtiyor Narzilloev, Javlon Rayimbaev, Ahmadjon Abdujabbarov, **Bobomurat Ahmedov**, Cosimo Bambi, Dynamics of charged particles and magnetic dipoles around magnetized quasi-Schwarzschild black holes, **European Physical Journal C**, Vol. 81, id 269 (2021), <https://doi.org/10.1140/epjc/s10052-021-09074-z> (IF: 4.770).
2. Javlon Rayimbaev, Alexandra Demyanova, Ugur Camci, Ahmadjon Abdujabbarov and **Bobomurat Ahmedov**, Dynamics of charged and magnetized particles around cylindrical black holes immersed in external magnetic field, **International Journal of Modern Physics D**, Vol. 30, id. 2150019 (2021), DOI: 10.1142/S021827182150019X (IF: 2.154).
3. Nozima Juraeva, Javlon Rayimbaev, Ahmadjon Abdujabbarov, **Bobomurat Ahmedov**, Satimbay Palvanov, Distinguishing magnetically and electrically charged Reissner–Nordström black holes by magnetized particle motion, **European Physical Journal C**, Vol. 81, id 70 (2021), <https://doi.org/10.1140/epjc/s10052-021-08876-5> (IF: 4.770).
4. Bobir Toshmatov, **Bobomurat Ahmedov**, and Daniele Malafarina, Can a light ray distinguish the charge of a black hole in nonlinear electrodynamics?, **Physical Review D**, Vol. 103, 024026 (2021), [https:// DOI: 10.1103/PhysRevD.103.024026](https://doi.org/10.1103/PhysRevD.103.024026) (IF: 4.394).
5. Bobur Turimov, Ozodbek Rahimov, **Bobomurat Ahmedov**, Zdenek Stuchlik, Kholida Boymurodova, Dynamical motion of matter around a charged black hole, **International Journal of Modern Physics D**, Vol. 30, (2021) <https://doi.org/10.1142/S0218271821500371> (IF: 2.154).
6. Sanjar Shaymatov, **Bobomurat Ahmedov**, Mubasher Jamil, Testing the weak cosmic censorship conjecture for a Reissner–Nordström–de Sitter black hole surrounded by perfect fluid dark matter, *European Physical Journal C*, 2021, 81:588 (Impact Factor: 4.843)
7. Farruh Atamurotov, Sanjar Shaymatov and **Bobomurat Ahmedov**, Particle Motion and Plasma Effects on Gravitational Weak Lensing in Lorentzian Wormhole Spacetime, **Galaxies**, 2021, 9, 54. <https://doi.org/10.3390/galaxies9030054>
8. Bobur Turimov, **Bobomurat Ahmedov** and Zdenek Stuchlik, On exact analytical solution of Einstein-Maxwell-scalar field equations, **Physics of Dark Universe**, 2021, accepted (**Impact Factor: 5.430**)

9. Ashfaque Hussain Bokhari, Javlon Rayimbaev, and **Bobomurat Ahmedov**, Test particles dynamics around deformed Reissner-Nordström black hole, **Phys. Rev. D**, 2020, V. 100, 124078, 17pp. (**Impact Factor: 4.368**).
10. Arman Tursunov, Zdenek Stuchlik, Martin Kolos, Naresh Dadhich and **Bobomurat Ahmedov**, Supermassive black holes as possible sources of ultra high energy cosmic rays, **Astrophysical Journal**, 2020, V. 895, id. 14 (11pp) (Impact Factor: **5.580**)
11. Sanjar Shaymatov, Jaroslav Vrba, Daniele Malafarina, **Bobomurat Ahmedov** and Zdenek Stuchlik, Charged particle and epicyclic motions around 4D Einstein-Gauss-Bonnet black hole immersed in an external magnetic field, **Physics of Dark Universe**, 2020, V. 30, 100648, 10pp. (**Impact Factor: 5.430**)
12. Sanjar Shaymatov, Naresh Dadhich, **Bobomurat Ahmedov**, Mubasher Jamil, Five dimensional charged rotating minimally gauged supergravity black hole cannot be over-spun and/or over-charged in non-linear accretion, 2020, **European Physical Journal C**, 80:481, 12 pp (Impact Factor: **4.843**)
13. Bobir Toshmatov, Ozodbek Rahimov, **Bobomurat Ahmedov** and Daniele Malafarina, Motion of spinning particles in non asymptotically flat spacetimes, **European Physical Journal C**, 2020, 80:675, 11pp. (Impact Factor: **4.843**)
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15. Jaroslav Vrba, Ahmadjon Abdujabbarov, Martin Kolos, **Bobomurat Ahmedov**, Zdenek Stuchlik and Javlon Rayimbaev, Charged and magnetized particles motion in the field of generic singular black holes governed by general relativity coupled to non-linear electrodynamics, **Physical Review D**, 2020, V. 101, id. 124039, 19pp. (**Impact Factor: 4.394**).
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21. Sanjar Shaymatov, Naresh Dadhich, **Bobomurat Ahmedov**, "The higher dimensional Myers-Perry black hole with single rotation always obeys the Cosmic Censorship Conjecture", 2019, **Eur. Phys. J. C** (2019) 79:585, 5pp.
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25. Narzilloev Bakhtiyor, Abdujabbarov Ahmadjon, Bambi Cosimo, **Ahmedov Bobomurat**, Charged particle motion around a quasi-Kerr compact object immersed in an external magnetic field, **Physical Review D**, 2019, V. **99**, id.104009, 12pp.
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CITATIONS (of published works):

(a) Total number of citations: ~ **4100**; **h-index = 35 (Google Scholar)**  
**h-index = 30 Web of Science/Scopus**

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Date: **04 August, 2021**