

Curriculum Vitae

Personal information

First name(s) / Surname(s) **Sanjar Shaymatov, Dr.**



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Place of birth (City and Country) Kitab, Uzbekistan

Nationality Uzbekistan

Date of birth 17.07.1985

Gender Male

Marital Status Married

Work Experience	Research Institution or University	Period of duty	
	Name and place	From – to	Academic responsibilities
	Institute of Nuclear Physics, Uzbekistan Academy of Sciences Ulugbek, Tashkent 100214, Uzbekistan	2014 - 2016	Junior Scientific Researcher
	National University of Uzbekistan, Tashkent 100174, Uzbekistan	2016 - 2017	Junior Scientific Researcher, Prof. Assistant
	Ulugh Beg Astronomical Institute, Astronomicheskaya 33, Tashkent 100052, Uzbekistan	2017 - 2018	Junior Scientific Researcher
	Ulugh Beg Astronomical Institute, Astronomicheskaya 33, Tashkent 100052, Uzbekistan	2019 -2020	Senior Scientific Researcher
	Physics Department, National university of Uzbekistan, Tashkent 100052, Uzbekistan	2018 - 2022	Associate Professor

Institute for Theoretical Physics and Cosmology Zhejiang University of Technology Hangzhou 310023, China	2023- 2025	Postdoc
Institute of Fundamental and Applied research NRU TIAME, Kori Niyoziy 39, Tashkent 100000, Uzbekistan	2025- now	Research Professor

Education

EDUCATION (higher degrees)

University or equivalent	Years attended		Degrees
Name and place	From	to	
Physics Department, National University of Uzbekistan, Tashkent 100174, Uzbekistan	2003	2008	BSc.
Physics Department National University of Uzbekistan, Tashkent 100174, Uzbekistan	2008	2010	MSc.
Institute of Nuclear Physics, Uzbekistan Academy of Sciences Ulugbek, Tashkent 100214, Uzbekistan	2011	2014	Doctorate student

Scientific degree **PhD** Degree in Astronomy and Astrophysics in 2018
DSc. Degree in Theoretical Physics in 2022

Teaching Experience at Undergraduate and Graduate Levels	2018-2023	Classical Mechanics; General Relativity; Special Relativity, General Courses in Physics at the National University of Uzbekistan
	2022-2023	Engineering MATH, Undergraduate Course, ADJU University in Tashkent
	2022-2023	Mechanics-1,2, Undergraduate Course, YOEJU University in Tashkent

h-index **25** (Google Scholar); **23** (ISI Web of Science);
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Language(s)	Understanding				Speaking				Writing
Self-assessment	Listening		Reading		Spoken interaction		Spoken production		
European level (*)									
English	B2	Independent User	C1	Proficient User	B2	Independent User	C1	Proficient User	C1 Independent User

SCIENTIFIC RESEARCH INTERESTS ARE:

1. General Relativity and Gravitation
2. Theoretical Astrophysics
3. Black Hole Physics
4. Alternative Theories of Gravity
5. Loop Quantum Gravity
6. Black Hole Electrodynamics
7. Gravitational Wave Physics
8. Dark Matter Physics

PROFESSIONAL FUNCTIONS

I have been serving as a referee for the following refereed journals:

1. Classical and Quantum Gravity
 2. The European Physical Journal C
 3. Physics of the Dark Universe
 4. The Astrophysical Journal
 5. General Relativity and Gravitation
 6. Nuclear Physics B
 7. The European Physical Journal Plus
 8. Fortschritte der Physik - Progress of Physics
 9. Communications in Theoretical Physics
 10. Symmetry
 11. Universe
 12. Galaxies
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LIST OF PUBLICATIONS

1. M. Alloqulov, T. Xamidov, **S. Shaymatov**, B. Ahmedov, Gravitational waveforms from periodic orbits around a Schwarzschild black hole embedded in a Dehnen-type dark matter halo, **The European Physical Journal C** **85**, 798 (2025), <https://doi.org/10.1140/epjc/s10052-025-14529-8>
2. T. Xamidov, P. Sheoran, **S. Shaymatov**, T. Zhu, Energy extraction from Loop Quantum Black Holes: the role of magnetic Penrose process and quantum gravity effects with astrophysical insights, **Journal of Cosmology and Astroparticle Physics** **2025**, 053 (2025), <https://doi.org/10.1088/1475-7516/2025/03/053>
3. M. Alloqulov, Y. Isaqjonov, **S. Shaymatov**, A. Jawad, Shadow and gravitational weak lensing around a quantum-corrected black hole surrounded by a plasma, **Chinese Physics C Vol** **49**, 045104 (2025), <https://doi.org/10.1088/1674-1137/ad9f44>
4. A. M. Sultan, M. Ali, Sh. Rani, N. Azhar, N. Myrzakulov, **S. Shaymatov**, Constraining Big Bang nucleosynthesis in f(T,B,TG,BG) gravity, **Nuclear Physics B** **1008**, 117023 (2025), <https://doi.org/10.1016/j.nuclphysb.2025.117023>
5. Sh. Sadiq, N. Azhar, N. Myrzakulov, S. Toktarbay, A. Muratkhan, **S. Shaymatov**, A. Jawad, D-brane and exponential potentials inspire warm inflation and swampland conjecture, **Nuclear Physics B** **1008**, 116981 (2025), <https://doi.org/10.1016/j.nuclphysb.2025.116981>
6. M. Alloqulov, M. Jamil, **S. Shaymatov**, Q. Wu, M. Azreg-Ainou, Epicyclic oscillations and accretion disk around a special Buchdahl-inspired spacetime, **Journal of High Energy Astrophysics** **48**, 100424 (2025), <https://doi.org/10.1016/j.jheap.2025.100424>
7. F. Ahmed, A. Al-Badawi, I. Sakalli, **S. Shaymatov**, Dynamics of test particles and scalar perturbation around an Ayón-Beato-García black hole coupled with a cloud of strings, **Chinese Journal of Physics** **96**, 770 (2025), <https://doi.org/10.1016/j.cjph.2025.05.035>
8. F. Mushtaq, A. Jawad, X. Tiecheng, M.M. Alam, **S. Shaymatov**, Thermodynamic study of specific black hole inspired by generalized entropy, **Physics Letters A** **548**, 130552 (2025), <https://doi.org/10.1016/j.physleta.2025.130552>
9. H. Tariq, U. Zafar, Sh. Chaudhary, K. Bamba, A. Jawad, **S. Shaymatov**, Exploring the effects of generalized entropy onto Bardeen black hole surrounded by cloud of strings, **Nuclear Physics B** **1016**, 116906 (2025), <https://doi.org/10.1016/j.nuclphysb.2025.116906>
10. N. Azhar, A. Jawad, I. Ahmed, M.M. Alam, **S. Shaymatov**, Cosmographic and thermodynamics analysis of five dimensional EChS gravity, **Journal of High Energy Astrophysics** **47**, 100369 (2025), <https://doi.org/10.1016/j.jheap.2025.100369>

11. N. Azhar, A. Jawad, Sh. Rani, M.M. Alam, **S. Shaymatov**, Sania, Physical insights of squared speed of sound parameterized Brans-Dicke gravity through cosmic parameters and thermodynamics, **Nuclear Physics B** **1015**, 116891 (2025), <https://doi.org/10.1016/j.nuclphysb.2025.116891>
12. A. Majeed, Sh. Rani, N. Azhar, M.M. Alam, **S. Shaymatov**, A.M. Sultan, $f(T,B,TG,BG)$ gravity tested through gravitational baryogenesis mechanisms, **Phys. Dark Universe** **48**, 101957 (2025), <https://doi.org/10.1016/j.dark.2025.101957>
13. A.M. Sultan, A. Mushtaq, A. Jawad, **S. Shaymatov**, M.Sh. Saleem, Gravitational baryogenesis analysis of observationally favored $f(T,\phi)$ models, **Phys. Dark Universe** **48**, 101936 (2025), <https://doi.org/10.1016/j.dark.2025.101936>
14. A. Jawad, N. Azhar, R. Arif, M.M. Alam, **S. Shaymatov**, Dynamical stability analysis of entropy corrected cosmic model through zero-point length, **Phys. Dark Universe** **48**, 101898 (2025), <https://doi.org/10.1016/j.dark.2025.101898>
15. A. Al-Badawi, **S. Shaymatov**, Astrophysical properties of static black holes embedded in a Dehnen type dark matter halo with the presence of quintessential field, **Chinese Physics C** **49**, 055101 (2025), <https://doi.org/10.1088/1674-1137/adb2fd>
16. F. Mushtaq, A. Jawad, X. Tiecheng, M.M. Alam, **S. Shaymatov**, Probing deflection angle inspired by weak field of specific black holes in non plasma and plasma field, **Phys. Dark Universe** **48**, 101872 (2025), <https://doi.org/10.1016/j.dark.2025.101872>
17. T. Xamidov, M. Alloqulov, **S. Shaymatov**, Electric Penrose process and collisions of particles near five-dimensional weakly charged Schwarzschild black hole, **Eur. Phys. J. Plus** **140**, 1182 (2025), <https://doi.org/10.1140/epjp/s13360-025-06137-y>
18. K. Jafarzade, **S. Shaymatov**, M. Jamil, Shadows and optical appearances of black holes in R^2 gravity, **Astroparticle Physics** **168**, 103100 (2025), <https://doi.org/10.1016/j.astropartphys.2025.103100>
19. S. Rani, A. Siddiqi, A. Mir, M.M. Alam, H. Raza, **S. Shaymatov**, Probing thermodynamics of Einstein-Maxwell scalar black hole through exponential corrected entropy, **Phys. Dark Universe** **48**, 101875 (2025), <https://doi.org/10.1016/j.dark.2025.101875>
20. H.M.M. Ahissou, I.G. Salako, A.V. Monwanou, A. Jawad, M.M. Alam, **S. Shaymatov**, H. Raza, Thermodynamics of $f(T, T)$ gravity corrected black holes and physical consequences, **Phys. Dark Universe** **48**, 101850 (2025), <https://doi.org/10.1016/j.dark.2025.101850>
21. A.M. Sultan, A. Batool, G. Abbas, A. Jawad, **S. Shaymatov**, Padé Approximated Traversable wormholes in $f(R, T)$ gravity, **Nuclear Physics B** **1013**, 116838, (2025), <https://doi.org/10.1016/j.nuclphysb.2025.116838>
22. N. Azhar, S. Rani, A. Jawad, M.M. Alam, **S. Shaymatov**, Cosmic and thermodynamics consequences of Chaplygin–Jacobi corrected HDE model, **Phys. Dark Universe** **47**, 101819 (2025), <https://doi.org/10.1016/j.dark.2024.101819>
23. T. Xamidov, U. Uktamov, **S. Shaymatov**, B. Ahmedov, Quasiperiodic oscillations around a Schwarzschild black hole surrounded by a Dehnen type dark matter halo, **Phys. Dark Universe** **47**, 101805 (2025), <https://doi.org/10.1016/j.dark.2024.101805>
24. M. Usman, A. Jawad, M.M. Alam, **S. Shaymatov**, Effects of nonlinear interactions on phase portraits and dynamical stability in specific modified gravity, **Phys. Dark Universe** **47**, 101781 (2025), <https://doi.org/10.1016/j.dark.2024.101781>
25. U. Uktamov, M. Alloqulov, **S. Shaymatov**, T. Zhu, B. Ahmedov, Particle dynamics and the accretion disk around a Self-dual Black Hole immersed in a magnetic field in Loop Quantum Gravity, **Phys. Dark Universe** **47**, 101743 (2025), <https://doi.org/10.1016/j.dark.2024.101743>
26. S. Rani, M. Adeel, M. Zeeshan Gul, Abdul Jawad, **S. Shaymatov**, Physical viability of $f(Q)$ gravity corrected charged anisotropic solutions, **Phys. Dark Universe** **47**, 101754 (2025), <https://doi.org/10.1016/j.dark.2024.101754>

27. S. Rani, N. Azhar, M. M. Alam, A. Jawad, **S. Shaymatov**, Cosmic analysis through dark energy models in fractal universe with non-linear interaction term, **Phys. Dark Universe** **46**, 101728 (2024), <https://doi.org/10.1016/j.dark.2024.101728>
28. A. Al-Badawi, **S. Shaymatov**, Y. Sekhmani, Schwarzschild Black Hole in Galaxies Surrounded by a Dark Matter Halo, **Journal of Cosmology and Astroparticle Physics (JCAP)** **2025**, 014 (2025), <https://doi.org/10.1088/1475-7516/2025/02/014>
29. A. Al-Badawi, **S. Shaymatov**, Quasinormal modes and shadow of Schwarzschild Black Holes embedded in a Dehnen Type Dark Matter Halo exhibiting string cloud, **Communications in Theoretical Physics** **77**, 035402 (2025), <https://doi.org/10.1088/1572-9494/ad89b2>
30. S. Malik, A. Jawad, S. Chaudhary, M. M. Alam, **S. Shaymatov**, S Rani, Thermodynamic Aspects of Higher-Dimensional Black Holes in Einstein Gauss-Bonnet Gravity Through Exponential Entropy, **Communications in Theoretical Physics** **77** 045404 (2025), <https://doi.org/10.1088/1572-9494/ad91b1>
31. A. Jawad, M. Shahid, S. Chaudhary, **S. Shaymatov**, Geometrothermodynamics Study of Specific Black Holes in Extended Einstein-Gauss-Bonnet Theory Using Tsallis Entropy, **International Journal of Geometric Methods in Modern Physics** **02**, 2550049 (2025), <https://doi.org/10.1142/S0219887825500495>
32. A. Alloqulov, **S. Shaymatov**, A. Jawad, O. Zaripov, Plasma impact on black hole shadow and gravitational weak lensing in Einstein-Maxwell-scalar theory, **Communications in Theoretical Physics**, Vol **76**, 015402 (2025), <https://doi.org/10.1088/1572-9494/ad7831>
33. S. Rani1, A. Jawad, H. Raza, **S. Shaymatov**, M. Muzaffar, H Riaz, Thermodynamic properties and geometries of bardeen black hole surrounded by string clouds, **Eur. Phys. J. C**, Vol **84**, 904 (2024), <https://doi.org/10.1140/epjc/s10052-024-13285-5>
34. T. Xamidov, **S. Shaymatov**, P. Sheoran, B. Ahmedov, Astrophysical insights into magnetic Penrose process around parameterized Konoplya-Rezzolla-Zhidenko black hole, **Eur. Phys. J. C** Vol **84**, **1300** (2024), <https://doi.org/10.1140/epjc/s10052-024-13658-w>
35. H. Jiang, M. Alloqulov, Q. Wu, **S. Shaymatov**, T. Zhu, Periodic orbits and plasma effects on gravitational weak lensing by self-dual black hole in loop quantum gravity, **Phys. Dark Universe** **46**, 101627 (2024), <https://doi.org/10.1016/j.dark.2024.101627>
36. A. Al-Badawi, M. Alloqulov, **S. Shaymatov**, B. Ahmedov, Shadows and weak gravitational lensing for black holes within Einstein-Maxwell-scalar theory, **Chinese Physics C**, Vol **48**, No. 095105, (2024), <https://doi.org/10.1088/1674-1137/ad5a70>
37. **S. Shaymatov**, Efficiency of magnetic Penrose process in higher dimensional Myers-Perry black hole spacetimes, **Phys. Rev. D**, Vol **110**, 044042 (2024), <https://doi.org/10.1103/PhysRevD.110.044042>
38. **S. Shaymatov**, M. Alloqulov, B. Ahmedov, A. Wang, Kerr-Newman-modified-gravity black hole's impact on the magnetic reconnection, **Phys. Rev. D**, Vol **110**, 044005 (2024), <https://doi.org/10.1103/PhysRevD.110.044005>
39. M. Alloqulov, **S. Shaymatov**, Electric Penrose process and the accretion disk around a 4D-charged Einstein-Gauss-Bonnet black hole, **Eur. Phys. J. Plus**, Vol **139**, 731 (2024), <https://doi.org/10.1140/epjp/s13360-024-05524-1>
40. A. Al-Badawi, **S. Shaymatov**, I. Sakalli, Geodesics structure and deflection angle of electrically charged black holes in gravity with a background Kalb-Ramond field, **Eur. Phys. J. C**, Vol **84**, 722 (2024), <https://doi.org/10.1140/epjc/s10052-024-13205-7>
41. A. Al-Badawi, **S. Shaymatov**, K. Sohan, A. Rahaman, GUP corrected black holes with cloud of string, [arXiv: 2303.06494 \[gr-qc\]](https://arxiv.org/abs/2303.06494), **Eur. Phys. J. C**, Vol **84**, 722 (2024), <https://doi.org/10.1140/epjc/s10052-024-13059-z>
42. **S. Shaymatov**, A. Tursunov, N. Dadhich, Energetics of Buchdahl stars and the magnetic Penrose process, **Eur. Phys. J. C**, Vol **84**, 1015 (2024), <https://doi.org/10.1140/epjc/s10052-024-13419-9>

43. A. Albadawi, **S. Shaymatov**, M. Alloqulov, A. Wang, A regular MOG black hole's impact on shadows and gravitational weak lensing in the presence of a quintessence field, **Communications in Theoretical Physics**, Vol **76**, 085401 (2024), <https://doi.org/10.1088/1572-9494/ad4c55>
44. M. Alloqulov, **S. Shaymatov**, B. Ahmedov, A. Jawad, Radiation properties of the accretion disk around a black hole in Einstein-Maxwell-scalar theory, **Chinese Physics C**, Vol **48**, No. 2 (2024), <https://doi.org/10.1088/1674-1137/ad137f>
45. B. Turimov, **S. Shaymatov**, S. Hayitov, Collisions of particles near Kerr-MOG black holes, **Eur. Phys. J. Plus**, Vol **138**, 1022 (2023), <https://doi.org/10.1140/epjp/s13360-023-04618-6>
46. **S. Shaymatov**, K. Jusufi, M. Alloqulov, B. Ahmedov, Epicyclic motions and constraints on the charged stringy black hole spacetime, **Eur. Phys. J. Plus**, Vol **138**, 997 (2023), <https://doi.org/10.1140/epjp/s13360-023-04604-y>
47. **S. Shaymatov**, M. Alloqulov, B. Ahmedov, A. Wang, A Kerr-Newman-MOG black hole's impact on the magnetic reconnection, **arXiv: 2307.03012 [gr-qc]** (2023).
48. **S. Shaymatov**, B. Ahmedov, M. De Laurentis, M. Jamil, A. Wang, Constraints on the spherically symmetric parametrized Rezzolla-Zhidenko spacetime through solar system tests, orbit of S2 star about Sgr A and quasiperiodic oscillations, **The Astrophysical Journal**, Vol **959**, 6 (2023), <https://doi.org/10.3847/1538-4357/acfcba>
49. **S. Shaymatov**, N. Dadhich, Like black holes Buchdahl stars cannot be extremalized, **Physics Letters B**, Vol **846**, 138243 (2023), <https://doi.org/10.1016/j.physletb.2023.138243>
50. **S. Shaymatov**, B. Ahmedov, E. Karimbaev, Can a Rotating Black Hole Be Overspun in Seven Dimensions?, **Universe**, Vol. **9**, 190 (2023), <https://doi.org/10.3390/universe9040190>
51. **S. Shaymatov**, N. Dadhich, Extending the weak cosmic censorship conjecture to charged Buchdahl star by employing the gedanken experiments, **Journal of Cosmology and Astroparticle Physics (JCAP)**, **2023**, **010** (2023), <https://doi.org/10.1088/1475-7516/2023/06/010>
52. **S. Shaymatov**, B. Ahmedov, Overcharging process around a magnetized black hole:\\ Can the backreaction effect of magnetic field restore cosmic censorship conjecture?, **General Relativity and Gravitation**, Vol. **55**, 36 (2023), <https://doi.org/10.1007/s10714-023-03082-y>
53. S. Giri, P. Sheoran, H. Nandan, **S. Shaymatov**, Chaos motion and Periastron precession of spinning test particles moving in the vicinage of a Schwarzschild black hole surrounded by a quintessence matter field, **Eur. Phys. J. Plus.**, Vol. **138**, 245 (2023), <https://doi.org/10.1140/epjp/s13360-023-03848-y>
54. J. Rayimbaev, **S. Shaymatov**, F. Abdulxamidov, S. Ahmedov, D. Begmatova, Magnetized Particles with Electric Charge around Schwarzschild Black Holes in External Magnetic Fields, **Universe**, Vol. **9**, 135 (2023), <https://doi.org/10.3390/universe9030135f>
55. O. Rahimov, O. Sultonov, **S. Shaymatov**, M. Tulametov, Q. Shakarov, Energy of particles in stable circular orbits around electrically charged wormholes, **AIP Conference Proceedings**, Vol 2789, 060004 (2023), <https://doi.org/10.1063/5.0145675>
56. **S. Shaymatov**, N. Dadhich, Weak cosmic censorship conjecture in the pure Lovelock gravity, **Journal of Cosmology and Astroparticle Physics (JCAP)** **2022**, 060 (2022), <https://doi.org/10.1088/1475-7516/2022/10/060>
57. G. Mustafa, F. Atamuratov, I. Hussain, **S. Shaymatov**, A. Ovgun, Shadows and gravitational weak lensing by the Schwarzschild black hole in the string cloud background with quintessential field, **Chinese Physics C**, Vol. **46**, 125107 (2022), <https://doi.org/10.1088/1674-1137/ac917f>
58. **S. Shaymatov**, P. Sheoran, R. Becerril, U. Nucamendi, B. Ahmedov, Efficiency of Penrose process in spacetime of axially symmetric magnetized Reissner-Nordström black hole, **Phys. Rev. D**, Vol. **106**, 024039 (2022), <https://doi.org/10.1103/PhysRevD.105.104059>

59. **S. Shaymatov**, Ayyesha K. Ahmeda, B. Ahmedov, Weak cosmic censorship conjecture for the (2+1)-dimensional charged BTZ black hole in the Einstein-Gauss-Bonnet Gravity, **Physics of the Dark Universe** **37**, 101082 (2022), <https://doi.org/10.1016/j.dark.2022.101082>
60. **S. Shaymatov**, M. Jamil, K. Jusufi, K. Bamba, Constraints on the magnetized Ernst black hole spacetime through quasiperiodic oscillations, **Eur. Phys. J. C.**, Vol. **82**, 636 (2022), <https://doi.org/10.1140/epjc/s10052-022-10560-1>
61. **S. Shaymatov**, P. Sheoran, S. Siwach, Motion of charged and spinning particle influenced by dark matter field surrounding a charged dyonic black hole, **Phys. Rev. D**, Vol. **105**, 104059 (2022).
62. N. Dadhich, **S. Shaymatov**, Circular orbits around higher dimensional Einstein and pure Gauss-Bonnet rotating black holes, **Phys. Dark Universe**, **35**, 100986 (2022).
63. N. Dadhich, **S. Shaymatov**, On black hole formation in higher dimensions, **International Journal of Modern Physics D** **31**, 2150120 (2022).
64. N. Dadhich, **S. Shaymatov**, How do rotating black holes form in higher dimensions?, **Arabian Journal of Mathematics** **11**, 67 (2022), <https://doi.org/10.1007/s40065-022-00362-4>.
65. **S. Shaymatov**, D. Malafarina, B. Ahmedov, Effect of perfect fluid dark matter on particle motion around a static black hole immersed in an external magnetic field, **Phys. Dark Universe**, **33**, 100891 (2021).
66. B. Narzilloev, **S. Shaymatov**, I. Hussain, A. Abdujabbarov, B. Ahmedov, C. Bambi, Motion of Particles and the Gravitational Lensing Around the (2+1)-dimensional BTZ black hole in the Gauss-Bonnet Gravity, **Eur. Phys. J. C**, **81**, 849 (2021).
67. **S. Shaymatov**, B. Narzilloev, A. Abdujabbarov, C. Bambi, Charged particle motion around magnetized Reissner-Nordström black hole, **Phys. Rev. D**, Vol. **103**, 124066 (2021).
68. F. Atamurotov, **S. Shaymatov**, P. Sheoran, S. Siwach, Charged black hole in 4D Einstein-Gauss-Bonnet gravity: Particle motion, plasma effect on weak gravitational lensing and centre-of-mass energy, **JCAP** **08**, 045 (2021).
69. J. Rayimbaev, **S. Shaymatov**, M. Jamil, Dynamics of particles and epicyclic motions around Schwarzschild-de-Sitter black hole in perfect fluid dark matter, **Eur. Phys. J. C** **81**, 699 (2021).
70. **S. Shaymatov**, B. Ahmedov, M. Jamil, Erratum to: Testing the weak cosmic censorship conjecture for a Reissner–Nordström–de Sitter black hole surrounded by perfect fluid dark matter, **Eur. Phys. J. C**, **81**, 724 (2021).
71. **S. Shaymatov**, B. Ahmedov, M. Jamil, Testing the weak cosmic censorship conjecture for a Reissner–Nordström–de Sitter black hole surrounded by perfect fluid dark matter, **Eur. Phys. J. C**, **81**, 588 (2021).
72. **S. Shaymatov**, F. Atamurotov, Geodesic circular orbits sharing the same orbital frequencies in the black string spacetime, **Galaxies** **9**, 40 (2021): <https://doi.org/10.3390/galaxies9020040>.
73. F. Atamurotov, **S. Shaymatov**, B. Ahmedov, Particle Motion and Plasma Effects on Gravitational Weak Lensing in Lorentzian Wormhole Spacetime, **Galaxies** **9**, 54 (2021): <https://doi.org/10.3390/galaxies9030054>.
74. **S. Shaymatov**, N. Dadhich, On overspinning of black holes in higher dimensions, **Phys. Dark Universe** **31**, 100758 (2021).
75. **S. Shaymatov**, B. Ahmedov, A. Bokhari, Yu. Vybylyi, Exact solutions of Einstein field equations // **Proceedings of RAGtime**, Opava, Czech Republic 277, Silesian University in Opava, 277–285 (2020).
76. B. Narzilloev, J. Rayimbaev, **S. Shaymatov**, A. Abdujabbarov, B. Ahmedov, C. Bambi, Dynamics of test particles around a Bardeen black hole surrounded by perfect fluid dark matter, **Phys. Rev. D**, Vol. **102**, 104062 (2020).
77. B. Narzilloev, J. Rayimbaev, **S. Shaymatov**, A. Abdujabbarov, B. Ahmedov, C. Bambi, Can the dynamics of test particles around charged stringy black holes mimic the spin of Kerr black holes? **Phys. Rev. D**, Vol. **102**, 044013 (2020).
78. **S. Shaymatov**, Y. Vrba, D. Malafarina, B. Ahmedov, Z. Stuchlik, Charged particle and epicyclic motions around 4D Einstein-Gauss-Bonnet black hole immersed in an external magnetic field // **Phys. Dark Universe** **30**, 100648 (2020).

79. **S. Shaymatov**, N. Dadhich, B. Ahmedov , Six-dimensional Myers-Perry rotating black hole cannot be overspun // **Phys. Rev. D** **101**, 044028 (2020).
80. **S. Shaymatov**, N. Dadhich, B. Ahmedov, M. Jamil, Five dimensional charged rotating minimally gauged supergravity black hole cannot be over-spun and/or over-charged in non-linear accretion // **Eur. Phys. J. C** **80**, 481 (2020).
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CTP, JMI (Center for Theoretical
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Delhi, India

TIFR (Tata Institute for Fundamental
Research)
Mumbai, India

Purpose of visit

Scientific collaboration
with Prof. Anzong Wang, Qiang Wu and
Tao Zhu

Scientific collaboration
with Prof. Naresh Dadhich

Scientific collaboration
with Prof. Luciano Rezzolla

Scientific collaboration in the field of
cosmology and astrophysics

Scientific collaboration
with Prof. Sushant Ghosh

Scientific collaboration
with Prof. Pankaj Joshi and Mandar Patil

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