

Curriculum Vitae

Bhaskar Shukla

✉ bhaskarbpr15@gmail.com

🐦 @bhaskarbpr15

🌐 bhaskarspace

🆔 0000-0002-5336-3150

🌐 <https://bhaskarspace.github.io/>



Education

- 2019 – 📖 **Ph.D., NIT Rourkela** String theory and its applications to the strongly coupled systems.
- 2013 – 2015 📖 **M.Sc. Astrophysics, Pondicherry University**
Thesis title: *Modelling nonlinear plasma oscillations using Lotka-Volterra equations.*
- 2009 – 2013 📖 **B.Tech. EEE, Uttar Pradesh Technical University**

Research Interests

- General Relativity 📖 **Black Hole Thermodynamics**
- String Theory 📖 **AdS/CFT Correspondence**
- Chaos Theory 📖 **Holographic and Quantum Chaos**

Research Publications

Journal Articles

- 1 **B. Shukla**, P. P. Das, D. Dudal, and S. Mahapatra, “Interplay between the Lyapunov exponents and phase transitions of charged AdS black holes,” Apr. 2024. arXiv: 2404.02095 [hep-th].
- 2 **B. Shukla**, D. Dudal, and S. Mahapatra, “Anisotropic and frame dependent chaos of suspended strings from a dynamical holographic QCD model with magnetic field,” *JHEP*, vol. 06, p. 178, 2023. 🔗 DOI: 10.1007/JHEP06(2023)178. arXiv: 2303.15716 [hep-th].
- 3 S. S. Jena, **B. Shukla**, D. Dudal, and S. Mahapatra, “Entropic force and real-time dynamics of holographic quarkonium in a magnetic field,” *Phys. Rev. D*, vol. 105, no. 8, p. 086011, 2022. 🔗 DOI: 10.1103/PhysRevD.105.086011. arXiv: 2202.01486 [hep-th].
- 4 S. Mahapatra, S. Priyadarshinee, G. N. Reddy, and **B. Shukla**, “Exact topological charged hairy black holes in AdS Space in D -dimensions,” *Phys. Rev. D*, vol. 102, no. 2, p. 024042, 2020. 🔗 DOI: 10.1103/PhysRevD.102.024042. arXiv: 2004.00921 [hep-th].



Skills

- Languages 📖 Strong reading, writing and speaking competencies in English and Hindi.
- Coding 📖 Mathematica, Matlab, PHP, Python, \LaTeX , ...
- Misc. 📖 Academic research, teaching, \LaTeX typesetting and publishing.

Conferences and Workshops



- Feb 2023 📖 **2nd International Meeting on High Energy Physics (IMHEP-II)**,
Institute of Physics, Bhubaneswar, Odisha, India, 16th-22nd February, 2023.
- July 2023 📖 **Strings 2023**, *Perimeter Institute for Theoretical Physics (Online) 24th-29th July, 2023.*

Conferences and Workshops (continued)



- Oct 2023  **2nd Workshop on dynamics of QCD Matter**,
National Institute of Science Education and Research, Khurda India, 7th-9th October, 2023.
- Dec 2023  **The 18th Kavli Asian Winter School on Strings, Particles and Cosmology**,
Yukawa Institute for Theoretical Physics, Kyoto University Kyoto, Japan, 5th-14th December, 2023.

Miscellaneous Experience

Awards and Achievements


- 2013  **Merit Award**, Pondicherry University merit scholarship.
- 2007  **Student Of The Year Award**, from Times NIE for class XI.

Certification


- 2012  **Matlab Training Certificate**. Awarded by Cetpa Infotech.
- 2008  **IT Proficiency Certificate**. Awarded by Council Of Science And Technology, U.P.

References

Dr. Subhash Chandra Mahapatra

Assistant Professor,
Theoretical Physics Group,
Department of Physics,
NIT Rourkela - 769008, Odisha, India.
 mahapatrasub@nitrkl.ac.in

Dr. David Dudal

Associate Professor,
Department of Physics Etienne Sabbelaan,
KU Leuven Campus Kortrijk – Kulak,
53 bus 7657, 8500 Kortrijk, Belgium.
 david.dudal@kuleuven.be