




Shubham Kala, Ph.D.




✉ shubhamkala871@gmail.com  <https://orcid.org/0000-0003-2379-0204>

 <https://www.researchgate.net/profile/Shubham-Kala-4>






 <http://www.linkedin.com/in/dr-shubham-kala-755966179>







Employment History

- 2022 – Present  **Assistant Professor**, B. D. Govt. P. G. College, Jaiharikhal, Uttarakhand, India.
- 2021 – 2022  **Assistant Professor**, Quantum University, Roorkee, Uttarakhand, India.
- 2019 – 2021  **JRF**, Department of Physics, GKV Haridwar sponsored by UCOST Dehradun .

Education





- 2017 – 2021  **Ph.D., Theoretical Physics: General Relativity and Classical Gravity, Gurukula Kangri (Deemed to be University), Haridwar, Uttarakhand.**
Thesis title: *Gravitational Lensing and Black Hole Shadows.*
- 2015 – 2017  **M.Sc. Physics, 75.80%, HNBGU (A Central University), Srinagar Garhwal.**
- 2012 – 2015  **B.Sc. PCM, 68.28%, HNBGU (A Central University), Srinagar Garhwal.**
- 2011 – 2012  **Intermediat., 77.40%, Uttarakhand Board.**
- 2009 – 2010  **High School, 77.40%, Uttarakhand Board.**

Skills

- Languages  Strong reading, writing and speaking competencies for English and Hindi.
- Programming  C, \LaTeX
- Scientific Softwares  MAPLE, MATHEMATICA.
- Miscellaneous  Academic research, teaching, \LaTeX typesetting and publishing.



Research Publications

Journal Articles

- 1 Kala, S., Nandan, H., & Sharma, P. (2022). Shadow and weak gravitational lensing of a rotating regular black hole in a non-minimally coupled Einstein-Yang-Mills theory in the presence of plasma. *Eur. Phys. J. Plus*, 137(4), 457.  doi:10.1140/epjp/s13360-022-02634-6. arXiv: 2207.10717 [gr-qc]
- 2 Kala, S., Nandan, H., Sharma, P., & Elmardi, M. (2021). Geodesics and bending of light around a BTZ black hole surrounded by quintessential matter. *Mod. Phys. Lett. A*, 36(31), 2150224.  doi:10.1142/S0217732321502242. arXiv: 2109.14991 [gr-qc]
- 3 Kala, S., Nandan, H., & Sharma, P. (2020). Deflection of Light Around a Rotating BTZ Black Hole. *Mod. Phys. Lett. A*, 35(39), 2050323.  doi:10.1142/S021773232050323X. arXiv: 2010.16183 [gr-qc]
- 4 Kala, S., Saurabh, Nandan, H., & Sharma, P. (2020). Deflection of light and shadow cast by a dual-charged stringy black hole. *Int. J. Mod. Phys. A*, 35(28), 2050177.  doi:10.1142/S0217751X20501778. arXiv: 2010.03615 [gr-qc]

Miscellaneous Experience



Awards and Achievements

- 2019  **Young Scientist Award**, for best poster presentation under the discipline Physics at 13th Uttarakhand State Science and Technology Congress 2018-19, held at UCOST, Vigyan Dham, Dehradun, during 26-28 February, 2019.
- 2012  **Scholarship for Higher Education (SHE 2012-2017)**, DST INSPIRE, New Delhi.





Paper presented in Seminars/Conferences/Workshops/Meetings

- 2022  Third International Conference titled "Vasudhev Kutumbkam" -3 organized by University of Delhi.
-  International Conference on Cosmology and Gravity (CosmoGrav22), organized by ICARD GK (DU) Haridwar.
- 2021  Gravitetex 2021: International Conference on Gravitation: Theory and Experiment organized by University of KwaZulu Natal, South Africa.
-  4th Shivalik, High Energy Physics, Cosmology and Astrophysics (HEPCATS) meeting organized by IIT Ropar.
- 2020  14th Uttarakhand State Science and Technology Congress 2019-20, held at UCOST, Dehradun.
- 2019  National Conference on Recent Trends in the Study of Compact Objects: Theory and Observation (RETCO-IV), held at IUCAA, Pune.
-  13th Uttarakhand State Science and Technology Congress 2018-19, held at UCOST, Dehradun.

Participation in National/International Schools

- 2022  School on Black Holes and Gravitational Waves, Centre for String, Gravitation and Cosmology (CoE) organized by Department of Physics, IIT Madras during 17-22 January 2022 (online).
- 2021  Winter School in Astronomy, Astrophysics and cosmology held at Department of Physics, Guwahati University, Guwahati, during 7-13 January, 2019.


Membership of Bodies/Organizations

-  Reviewer in "American Journal of Astronomy and Astrophysics (AJAA)" ISSN Print: 2376-4678, ISSN Online: 2376-4686.
-  Life time member of Indian Association for General Relativity and Gravitation (IAGRG), Pune, India.
- 2020  Member of All India Council For Technical Skill Development (AICTSD), India.
- 2018  Life time member of Indian Association of Physics Teachers (IAPT), Kanpur, India.

References


Prof. Hemwati Nandan

Department of Physics
HNBGU Central University, Srinagar Garhwal
Pauri Garhwal-246174, Uttarakhand, India.

 hnandan@associates.iucaa.in

Prof. P. K. Raina

Department of Physics
Indian Institute of Technology (IIT) Ropar
Rupnagar-140001, Punjab.

 pkraina@iitrpr.ac.in