

Pradeep Singh

CURRICULUM VITAE

Mota plat Khadri Shyampur
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Personal Profile

Name **Pradeep Singh**
Date of Birth 01-07-1994
Fathers Name Veer Singh
Gender Male
Nationality Indian
Permanent Village- Mindath, Patti-Dogi, P.O. Mindath, Tehsil Narendra Nagar-249192, Tehri
Address Garhwal, Uttarakhand
Corresponding Ward No.- 04, Mota Plat, Khadri Shyampur, Near- Panchayat Ghar, P.O.- Satyanarayan
Address Temple, Rishikesh-249204, Dehradun, Uttarakhand

Academic Qualifications

2016 **M.Sc. (Mathematics)**, *H.N.B. Garhwal University (Central University)*, **75.08%**
2014 **B.Sc. (PCM)**, *H.N.B. Garhwal University (Central University)*, **71.07%**
2011 **Intermediate**, *Uttarkhand Board*, **72%**
2009 **High School**, *Uttarkhand Board*, **70.8%**

Awards/Fellowships/Honours/Examinations Qualified

- National Eligibility Test (NET with JRF)** June-2018 (AIR- 112) conducted by Joint CSIR-UGC, New Delhi, India.
- Graduate Aptitude Test in Engineering (GATE-2018)** with AIR- 1033.
- Joint Admission Test for M.Sc. (JAM-2014)** with AIR- 2050.
- INSPIRE Scholarship for Higher Education (SHE)** by Department of Science & Technology (DST) Govt. of India during B.Sc. and M.Sc.

Research Interest

- Nonlinear Dynamics
- Differential Equation
- Astrophysics
- General Relativity
- Lyapunov Stability

Computer Expertise

Programing experience **MATHEMATICA, MATLAB**

Applications **L^AT_EX, Word, Excel**

List of Publications (Research Papers Published in Peer Reviewed SCI-Indexed International Journals)

1. **Pradeep Singh**, Hemwati Nandan, Lokesh Kumar Joshi, Nidhi Handa and Shobhit Giri, *Stability of circular geodesics in equatorial plane of Kerr spacetime*, *The European Physical Journal Plus* 137:263, (2022) [ISSN: 2190-5444] [Impact factor: 3.911] (**SCI-Indexed**).

Participation in Conferences/Seminars/Workshops

1. Presented a paper entitled “*Stability of circular geodesics in equatorial plane of Kerr black hole spacetime*” in **International Conference on Veda Vijnana & Sanskriti Mahakumbha** during 23rd to 25th December, 2023 organized by Gurukula Kangri (DU), Haridwar on the auspicious occasion of 200th birth anniversary of Maharishi Dayanand Saraswati Ji.
2. Participated online in one day **Seminar on Securing Research Fundings** organized by Hemwati Nandan Bahuguna Garhwal University, Srinagar on 11 December, 2023.
3. Presented a paper entitled “*Geodesics Stability and Saddle-Node Bifurcation in Reissner-Nordstrom Black Hole Spacetime*” in **National Conference on Recent Advances in Theoretical and Experimental Sciences (NCRATES-2023)** organized by Department of Physics, Bhakt Darshan Govt. P.G. College Jaiharikhal, Uttarakhand, India sponsored by USERC and UCOST during 29-30, September 2023.
4. Participated online in **International Workshop on Mathematical and Computational Methods in Science and Engineering** organized by IIT Ropar during 02-13, June 2023.
5. Presented a paper entitled “*Stability of geodesics in equatorial plane of the Kerr-Sen black hole spacetime via Lyapunov exponent*” in **International Conference on Cosmology & Gravity (CosmoGrav22)** organized by IUCAA Center for Astronomy Research & Development (ICARD), Gurukula Kangri (Deemed to be University) Haridwar during 23–24, March 2022.
6. Participated in one week **National Workshop on Research Methodology, Publication & Ethics (RMPE-2022)** organized by Physics Department & IQAC, Gurukula Kangri (Deemed to be University) Haridwar in collaboration with USERC Dehradun on 25-30 March 2022.
7. Presented a paper entitled “*Stability of circular orbits in equatorial plane of Kerr spacetime*” in **National Conference on Advances in Theoretical Physics, Material and Atmospheric Science** organized by Department of Physics, VSKC Govt. P.G. College Dakpathar, Dehradun, Uttarakhand, India during 16-17 July 2021.
8. Participated in two days **National Workshop on Artificial Neural Network with MATLAB Implementation** organized by Department of Computer Science, Gurukula Kangri Vishwavidyalaya, Haridwar during 24-25 January, 2020.
9. Participated in **An Educator Workshop in Astronomy & SkyWatch** sponsored by ARIES, Nainital (DST, Govt. of India) organized by IUCAA Centre for Astronomy Research & Development, Department of Physics, Gurukula Kangri Vishwavidyalaya, Haridwar on 27 November, 2019.