




DEPARTMENT OF PHYSICS
DYAL SINGH COLLEGE, UNIVERSITY OF DELHI
FACULTY DETAIL



Title	Mr.	First Name	Rohit K.	Last Name	Gupta	Photograph 
Designation		Assistant Professor				
Address		Dyal Singh College (University of Delhi) Lodhi Road, New Delhi-110003				
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Residence						
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Email		<u>rohitgupta.physics@dsc.du.ac.in</u>, <u>rohitgpt35@gmail.com</u>				
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Educational Qualifications						
Degree		Institution			Year	
B.Sc.		University of Allahabad			2013	
M.Sc.		University of Allahabad			2016	
Ph.D		University Of Delhi			2023(Submitted)	
Career Profile						
1. 2023- Assistant Professor (Permanent) at Dyal Singh College, University of Delhi, New Delhi. 2. 2022 - 23 Guest faculty at Ram Lal Anand College, University of Delhi, New Delhi. 3. 2021 – 22 Guest faculty at Swami Shraddhanand College, Alipur, University of Delhi, New Delhi. 4. 2019-20 Guest faculty in Indira Gandhi Delhi Technical University For Women (IGDTUW) New Delhi.						
Administrative Assignments (From 1st July 2018 onwards)						
1. Member of admission committee of the Physics department (2023-24).						
Areas of Research Interest / Specialization						
Theoretical High Energy Physics, Gravitation and Quantum Gravity						
Subjects Taught						
1. Quantum Mechanics 2. Mechanics 3. Statistical Mechanics 4. Wave and Optics 5. Solid State Physics 6. Nuclear and Particle Physics						
Research Guidance						
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Publications Profile
<p>1. 2022, “Exact Geometries from Boundary Gravity” International Journal of Theoretical Physics vol. 62, No. 61 (2023) arXiv:2205.06782v1 [hep-th] Rohit K. Gupta, Supriya K. Kar, R.Nitish, and Monika Verma</p> <p>2. 2020, “Aspects of Gravitational Wave/Particle Duality: Bulk Torsion ↔ Boundary Gravity Correspondence” International Journal of Modern Physics D Vol. 29, No. 02, 2050019 (2020) arXiv:1906.02490[hep-th] Rohit K. Gupta, R.Nitish and Supriya K. Kar</p> <p>3. 2020, “Perspective of Perihelion precession in Torsion Modified Gravity” International Journal of Modern Physics D Vol. 29, No. 10, 2050074 (2020) arXiv:1905.04973[gr-qc] R.Nitish, Rohit K. Gupta and Supriya K. Kar</p>
Conference Organization/ Presentations (From 1 st July 2018 onwards)
<p>1. 2021 Oct.26–28 “27th International Conference of International Academy of Physical Sciences on Advances in Relativity and Cosmology(PARC-2021)” at Department of Mathematics, Birla Institute of Technology and Science-Pilani, Hyderabad Campus, India. Talk Title: “Perspective of Perihelion Precession in Torsion Geometries”</p> <p>2. 2021 Jul. 31 “Shivalik HEPCATS - 2021 (Summer)” at Department of Physics Indian Institute of Technology Ropar, India. Talk title: “Aspects of gravitational wave particle duality: Bulk Torsion ↔ Boundary gravity”</p> <p>3. 2021 Jun. 16 “National Conference on Emerging Trends in Physics-2021 (NCTEP-2021)” at Department of Physics Tezpur University, Assam, India. Talk title: “Aspects of gravitational wave particle duality: Bulk Torsion ↔ Boundary gravity”</p> <p>4. 2019 Nov. 8-10 “Workshop on Emergent Gravity Paradigm” at Cochin University of Science and Technology, Cochin, Kerala, India. Talk title: “Aspects of gravitational wave particle duality: Bulk Torsion ↔ Boundary gravity”</p> <p>5. 2018 Feb. 28 “Science Day Celebration” at Department of Physics and Astrophysics, University of Delhi, Delhi, India. Poster title: Gravitational Instanton.</p>
Other Activities: Conference/School/Workshop Participated (From 1 st July 2017 onwards)
<p>1. 2017 Dec. 5-1 “NATIONAL STRINGS MEETING(NSM)”, at National Institute of Science Education and Research(NISER), Bhubaneswar, Odisha, India.</p> <p>2. 2018 Apr. 6-8 “CONFERENCE ON RECENT DEVELOPMENT IN COSMOLOGY”, at Banaras Hindu University, Varanasi, India.</p> <p>3. 2018 Dec. 25-31 “NEW TREND IN FIELD THEORY”, at Banaras Hindu University, Varanasi, India.</p>

4. 2018 Dec. 10-15 "TOPOLOGICAL SOLITONS AND THEIR APPLICATION", at Indian Institute of Technology(IIT) Jodhpur, India.
5. 2018 Dec. 16-21 "INDIAN STRING MEETING(ISM)" at Indian Institute of Science Education and Research(IISER), Thiruvananthapuram, Kerala, India.
6. 2019 Jul. 17-25 "STUDENT TALKS ON TRENDING TOPICS IN THEORY (ST 4)" at Indian Institute of Science Education and Research(IISER), Bhopal, Madhya Pradesh, India.
7. 2019 Nov. 8-10 "WORKSHOP ON EMERGENT GRAVITY PARADIGM" at Cochin University of Science and Technology, Cochin, Kerala, India.
8. 2019 Dec. 22-27 "NATIONAL STRINGS MEETING(NSM)" at Indian Institute of Science Education and Research(IISER), Bhopal, Madhya Pradesh, India.
9. 2021 Jun. 16 "NATIONAL CONFERENCE ON EMERGING TRENDS IN PHYSICS 2021(NCTEP-2021)" at Department of Physics Tezpur University, Assam, India.
310. 2021 Jul. 31 "SHIVALIK HEPCATS - 2021 (SUMMER)" at Department of Physics Indian Institute of Technology Ropar, India.
11. 2021 Oct.26-28 "27TH INTERNATIONAL CONFERENCE OF INTERNATIONAL ACADEMY OF PHYSICAL SCIENCES ON ADVANCES IN RELATIVITY AND COSMOLOGY (PARC-2021)" at Department of Mathematics, Birla Institute of Technology and Science-Pilani, Hyderabad Campus, India.
12. 2021 Dec. 12-17 "INDIAN STRING MEETING(ISM)" at Indian Institute of Technology, Roorkee, India.
13. 2022 May. 09-13 "SPRING SCHOOL ON SUPERSTRING THEORY AND RELATED TOPICS" at ICTP Hybrid Meeting Trieste, Italy.

Signature of Faculty Member