



SUVANKAR PAUL

Department of Physics

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PERSONAL DETAILS

Nationality: Indian
Gender: Male
Marital Status: Single
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West Bengal - 736207, India
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Researcher ID: [AAC-7633-2021](https://www.researcherid.com/AAC-7633-2021)
(Web of Science)
Vidwan ID: [196631](https://www.vidwan.net/196631)
Researchgate: <https://www.researchgate.net/profile/Suvankar-Paul>
INSPIRE-HEP: <https://inspirehep.net/authors/1727165>
Google Scholar: <https://scholar.google.com/citations?user=eIyGNSQAAAAJ&hl=en>

EDUCATION

Ph.D., Physics 2015 - 2020 **CPI (Course Work) - 10/10**

- Thesis Title: *Black Holes vs Horizonless Compact Objects: Strong Gravitational Lensing and Accretion Disk Images*
- Thesis Supervisor: [Prof. Tapobrata Sarkar](#)

[Indian Institute of Technology Kanpur](#), Kanpur, Uttar Pradesh, India

M.Sc., Physics 2013 - 2015 **CPI - 8.2/10 [82 %]**

[Indian Institute of Technology Kanpur](#), Kanpur, Uttar Pradesh, India

B.Sc., Physics (Honours) 2010 - 2013 **Percentage - 65.12**

[Acharya Brojendra Nath Seal College](#), Cooch Behar, West Bengal, India
(under [University of North Bengal](#), Siliguri, West Bengal, India)

Higher Secondary Examination 2008 - 2010 **Percentage - 90.00**

[Barabisha High School](#), Alipurduar, West Bengal, India
(under [West Bengal Council of Higher Secondary Education](#), Kolkata, West Bengal, India)

Madhyamik Pariksha (Secondary Examination) 2008 **Percentage - 96.87**

[Barabisha High School](#), Alipurduar, West Bengal, India
(under [West Bengal Board of Secondary Education](#), Kolkata, West Bengal, India)

TEACHING EXPERIENCE	<ul style="list-style-type: none"> Assistant Professor in Physics Raiganj Surendranath Mahavidyalaya Dec 2023 - Present Lecturer in Physics Alipurduar (Damanpur) Government Polytechnic Jan 2023 - Dec 2023 Lecturer in Physics Maynaguri Government Polytechnic Dec 2021 - Jan 2023 Assistant Professor ICFAI University Tripura Sep 2020 - Nov 2021 Teaching Assistant Indian Institute of Technology Kanpur Aug 2015 - Dec 2019 <ul style="list-style-type: none"> Undergraduate Physics Laboratory Preparatory Undergraduate Physics Laboratory 	
ADMINISTRATIVE POSITIONS	<ul style="list-style-type: none"> Head, Department of Physics Raiganj Surendranath Mahavidyalaya Mar 2025 - Present Head, Department of Science and Humanities Alipurduar (Damanpur) Government Polytechnic Jan 2023 - Dec 2023 	
RESEARCH INTERESTS	<ul style="list-style-type: none"> Probing strong gravity through gravitational lensing, shadows, accretion disk images, etc. Study of tidal effects on stars by ultra-compact objects in various astrophysical scenarios. 	
JOURNAL PUBLICATION	<p>Summary: Total number of Journal Publications: 11</p> <p>Journal of Cosmology and Astroparticle Physics (ISSN: 1475-7516): 3 <i>Impact Factor:</i> 5.3.</p> <p>Physics Letters B (ISSN: 0370-2693): 3 <i>Impact Factor:</i> 4.3.</p> <p>The Astrophysical Journal (ISSN: 1538-4357): 2 <i>Impact Factor:</i> 4.8.</p> <p>Physical Review D (ISSN: 2470-0010): 2 <i>Impact Factor:</i> 4.6.</p> <p>The European Physical Journal C (ISSN: 1434-6044): 1 <i>Impact Factor:</i> 4.2.</p> <p>h-index: 9* (* as per INSPIRE-HEP data).</p> <hr/> <p>1. Shadows and thin accretion disk images of the γ-metric Rajibul Shaikh, Suvankar Paul, Pritam Banerjee, and Tapobrata Sarkar The European Physical Journal C 82, 696 (2022); arXiv:2105.12057; Citations: 32*.</p>	

2. **A stellar constraint on Eddington-inspired Born-Infeld gravity from cataclysmic variable binaries**
Pritam Banerjee, Debojyoti Garain, Suvankar Paul, Rajibul Shaikh and Tapobrata Sarkar
[The Astrophysical Journal](#) 924, 20 (2022);
[arXiv:2105.09172](#);
Citations: 11*.
3. **Tidal disruption near black holes and their mimickers**
Pritam Banerjee, Suvankar Paul, Rajibul Shaikh and Tapobrata Sarkar
[Journal of Cosmology and Astroparticle Physics](#) 03 (2021) 042;
[arXiv:1912.01184](#);
Citations: 8*.
4. **Constraining Modified Gravity from Tidal Phenomena in Binary Stars**
Pritam Banerjee, Debojyoti Garain, Suvankar Paul, Rajibul Shaikh and Tapobrata Sarkar
[The Astrophysical Journal](#) 910, 23 (2021);
[arXiv:2006.01646](#)
Citations: 16*.
5. **Strong gravitational lensing by a strongly naked null singularity**
Suvankar Paul
[Physical Review D](#) 102, 064045 (2020);
[arXiv:2006.01646](#);
Citations: 34*.
6. **Observational signatures of wormholes with thin accretion disks**
Suvankar Paul, Rajibul Shaikh, Pritam Banerjee and Tapobrata Sarkar
[Journal of Cosmology and Astroparticle Physics](#) 03 (2020) 055;
[arXiv:1911.05525](#);
Citations: 63*.
7. **Strong gravitational lensing by wormholes**
Rajibul Shaikh, Pritam Banerjee, Suvankar Paul and Tapobrata Sarkar
[Journal of Cosmology and Astroparticle Physics](#) 07 (2019) 028;
[arXiv:1905.06932](#);
Citations: 101*.
8. **Analytical approach to strong gravitational lensing from ultra-compact objects**
Rajibul Shaikh, Pritam Banerjee, Suvankar Paul and Tapobrata Sarkar
[Physical Review D](#) 99, 104040 (2019);
[arXiv:1903.08211](#);
Citations: 74*.
9. **Tidal effects away from the equatorial plane in Kerr backgrounds**
Pritam Banerjee, Suvankar Paul, Rajibul Shaikh, and Tapobrata Sarkar
[Physics Letters B](#) 795, (2019) 29;
[arXiv:1812.08642](#);
Citations: 9*.
10. **A novel gravitational lensing feature by wormholes**
Rajibul Shaikh, Pritam Banerjee, Suvankar Paul and Tapobrata Sarkar
[Physics Letters B](#) 789, (2019) 270;
[arXiv:1811.08245](#);
Citations: 100*.

11. **Curvature couplings of massless fermions in analog gravity**
Pritam Banerjee, Suvankar Paul, and Tapobrata Sarkar
[Physics Letters B 789, \(2019\) 160](#);
Citations: 1*.

* Citations are based on INSPIRE-HEP data.

OTHER ARTICLES / PREPRINTS

1. **Strong Gravitational Lensing by Compact Object without Cauchy Horizons in Effective Quantum Gravity**
Suvankar Paul
[arXiv:2501.03745](#);
Citations: 2*.
2. **Gravitoelectromagnetism: Formulation**
Suvankar Paul
[Gravito-electromagnetism](#).
3. **On Strong Gravitational Lensing in Rotating Galactic Space-times**
Pritam Banerjee, Suvankar Paul and Tapobrata Sarkar
[arXiv:1804.07030](#);
Citations: 5*.
4. **Information Geometry in Time Dependent Quantum Systems and the Geometric Phase**
Anshuman Dey, Suvankar Paul, Pratim Roy and Tapobrata Sarkar
[arXiv:1605.01358](#);
Citations: 0*.

* Citations are based on INSPIRE-HEP data.

CONFERENCE PRESENTATION

1. An oral presentation, "*A Novel Gravitational Lensing Feature from Wormholes*", was presented at the "*22nd International Conference on General Relativity and Gravitation - 13th Edoardo Amaldi Conference on Gravitational Waves*" - an international conference organized by **Universitat de València** and **Consejo Superior de Investigaciones Científicas (CSIC)** in Valencia, Spain (July 2019).
2. An oral presentation, "*Gravitational Lensing in the strong deflection limit by a null naked singularity*", was presented at the "*27th International Conference of International Academy of Physical Sciences (CONIAPS XXVII) on Advances in Relativity and Cosmology (PARC-2021)*" - an international conference organized online by **Department of Mathematics, BITS-Pilani, Hyderabad Campus** (October 26-28, 2021).

SCHOOL PARTICIPATION

1. Participated in "*ICTS Summer School on Gravitational-Wave Astronomy*" - a summer school organized by **International Centre for Theoretical Sciences**, Bangalore, India (August 2018).

AWARDS & ACHIEVEMENTS

- Recipient of INSPIRE Scholarship funded by Department of Science and Technology (DST), Govt. of India (2010-2015).
 - Qualified GATE 2019 in Physics with Rank 65.
 - Qualified GATE 2017 in Physics with Rank 196.
 - Qualified CSIR-UGC NET 2015 in Physics with CSIR-JRF Rank 57.
 - Qualified CSIR-UGC NET 2014 in Physics with LS Rank 173.
 - Qualified JEST 2015 in Physics with Rank 34.
 - Qualified JAM 2013 in Physics with Rank 233.
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SKILLS

- Software Skills: Mathematica, MS Office, Libra Office, Latex, Inkscape etc.
- Programming: C, Python etc.
- Operating Systems: Windows and Ubuntu.

**OTHER
ACTIVITIES**

- Playing Cricket, Football, Cycling, Running, Swimming etc.
- Passionate in adventure sports activities like Trekking, Hill-climbing etc.

DECLARATION

I hereby confirm that the particulars mentioned above are true & correct to the best of my knowledge and belief.

May 22, 2025

Suvankar Paul
