



**Faculty Details proforma for DU Web-site**

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Title	Professor	First Name	Patrick	Last Name	Das Gupta	Photograph
Designation						
Address		Department of Physics & Astrophysics, University of Delhi, Delhi - 110007				
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Web-Page	https://www.researchgate.net/profile/Patrick_Das_Gupta					
Educational Qualifications						
Degree		Institution			Year	
5 yrs integrated M.Sc. in Physics		B.I.T.S., Pilani			1981	
Ph.D. in Physics		T.I.F.R., Mumbai			1989	
Career Profile						
<ol style="list-style-type: none"> <li>1. Post doctoral fellow at IUCAA, Pune, during 1989-93, and very briefly during 1989-90 at University of Wales, Cardiff (UK) and Observatoire de Meudon, Paris</li> <li>2. Joined the University of Delhi in 1993 as a lecturer</li> <li>3. Became a reader in 1996 and has been a professor since 2004</li> </ol>						
Administrative Assignments						
<p>(a) I am part of the Space Allocation Committee (2019) that delves on the criteria and modus operandi of allocating space for various faculty members, laboratories and innovation lab.</p> <p>(b) I have been the Convener of the Capital Funds Grant Committee, involved in the allocation of grants for research facilities and development of infra-structure.</p>						
Areas of Interest / Specialization						
General Relativity; High energy astrophysics; black holes; quantum theory						
Subjects Taught						
Classical mechanics ; Quantum mechanics ; Electromagnetic theory ; Radiation theory; General relativity and Cosmology I and II; Astronomy & Astrophysics-II; Computer lab. ; Waves & Optics lab. ; Laser & Spectroscopy lab.						
Research Guidance						
Two students (Niraj Upadhyay and Varsha Gupta) had completed their PhD with me. Currently three students (Nidhi Saini, Mohd. Sirtaz and Jeetender Kumar ) are enrolled for their PhD with me.						
Publications Profile						

1. P. Das Gupta, 'Three faces of Aharanov-Bohm Phase', in Lectures on Quantum Mechanics: Fundamentals and Applications, eds. Anirban Pathak and Ajoy Ghatak (Viva Books Pvt. Ltd., 2019)

2. P. Das Gupta, 'On Reasonable Effectiveness of Pedagogy of Mathematical Physics', 2019, submitted ( [https://www.researchgate.net/publication/331687828\\_On\\_Reasonable\\_Effectiveness\\_of\\_Pedagogy\\_in\\_Mathematical\\_Physics](https://www.researchgate.net/publication/331687828_On_Reasonable_Effectiveness_of_Pedagogy_in_Mathematical_Physics) )

3. P. Das Gupta, 'Artificial Intelligence, Free Will, Physics and all that useless ruminations', Echo (Physics Journal, St. Stephens College), 6-8, March Issue (2019)

And also please see: [https://www.researchgate.net/profile/Patrick\\_Das\\_Gupta](https://www.researchgate.net/profile/Patrick_Das_Gupta)

Conference Organization/ Presentations (in the last three years)

1. I presented an invited lecture on 'Supermassive black holes from Bose-Einstein condensates' at the FTAG-2016 held in SNBNCBS, Kolkata, during February 22-26, 2016.
2. I presented a paper on 'Supermassive black holes from Bose-Einstein condensates' in the International Conference on General Relativity and Gravity held at the Columbia University, New York, during July 10 - 15, 2016.
3. I presented a paper on 'Supermassive black holes from Bose-Einstein condensates' in the Conference on Long Range interactions in many body physics held at the ICTP, Trieste, during July 25 - 29, 2016.
4. I presented a paper on COMETS, HISTORICAL RECORDS AND VEDIC LITERATURE, in the International Conference on Oriental Astronomy, held at IISER, Pune, in November 2016.
5. I was invited to give a lecture on Bose-Einstein condensates in Frontiers of Physics, 2017, University of Burdwan and INO (TIFR) .
6. I was invited to co-chair the Classical Gravity Workshop sessions of 29-th meeting of IAGRG held at IIT, Guwahati, in May 2017, and I also presented a paper in the conference.
7. I was invited to present a paper in RETCO-III held in IIAST, Thiruvananthapuram, in June 2017.
8. I was invited to present a paper in the workshop on Gamma Ray Bursts: Prompt to Afterglow, held at NCRA (TIFR), Pune, in July 2017.
9. I was invited to deliver a lecture on 'Direct detection of gravitational waves' in a conference organized by P.R.L., Ahmedabad, on New Initiatives in Fundamental Science Experiments held in Udaipur during September 12-14, 2017.

10. I was invited to deliver a lecture on 'An outburst on Gravitational Wave Bursts, Radio Bursts and Gamma Ray Bursts' in the Journal Club School of Physical Sciences, JNU, in October 6, 2017.
11. I was invited to deliver a lecture on 'Three faces of quantum phase' in a Workshop on Quantum Physics held at Kalindi College, University of Delhi, on October 6, 2017.
12. I was invited to deliver lectures in many Refresher Courses for Teachers held at Jawaharlal Nehru University, New Delhi, during 2015-2017, on subjects ranging from quantum physics to astrophysics.
13. I was invited to deliver a lecture on Formation of Supermassive black holes in an International Conference on The Physical Universe at Nagpur during 26.2.18 to 1.3.18.
14. BITS, Pilani, had invited me to deliver a lecture on 'Hawking's legacy in Physics' organized to pay homage to Stephen Hawking in April, 2018.
15. I was invited to lecture on 'Gravitational Waves' at IIT, Mandi, in May, 2018.
16. I was invited to give a lecture on 'Recent excitement in the research in Astrophysics' in a workshop on 'Pedagogy and Research in universities' at Amity University, Gwalior, in May, 2018.
17. I delivered a lecture on 'Fast Radio Bursts' in the Feynman Club of St. Stephen's College on 3.8.18.
18. I delivered a set of lectures on 'General Relativity' in SERB preparatory school in Theoretical High Energy Physics at the Central University, Hyderabad, in September, 2018.
19. I delivered a set of lectures on 'General Relativity' in SERB preparatory school in Theoretical High Energy Physics at the Central University, Hyderabad, in September, 2018.
20. I was invited to deliver a lecture on 'Dark matter and Dark energy in cosmology' at BITS, Pilani, Hyderabad Campus, in September, 2018.
21. I delivered a lecture on 'Formation of Supermassive Black holes' at BITS, Pilani, Goa Campus, in November, 2018.
22. I was invited to deliver lectures in a conference on 'The Stellar Legacy of Meghnad Saha' held at I.M.Sc., Chennai during January 3-4, 2019.
23. I was invited to deliver a lecture in an international conference ICPST-2019 on 'The Puzzle of Supermassive Black holes found at the centres of Active Galactic Nuclei' held in University of Delhi during January 17-19, 2019.
24. I was invited to deliver a lecture in a conference on 'Frontiers in Particle Physics and Cosmology' held in Hyderabad Central University during January 23-25, 2019.
25. I delivered a lecture on 'Direct detection of Gravitational Waves' in the Khalsa College, Delhi University on January 28, 2019.
26. I was invited to give two lectures on 'Dark matter and Dark energy in the Universe' in a 2-day workshop on 'Shedding Light on the Dark Side of the Universe' organized by Hindu College, Delhi University, during February 8-9, 2019.
27. I delivered a lecture on 'Quantum magic and mysteries' at the Kirori Mal College, Delhi University, on February 26, 2019.
28. I was invited to deliver lectures on 'Supermassive Black holes' and 'Gravitational waves' at I.I.T., Jodhpur, during March 30-31, 2019.

29. I was invited to chair a session and present a paper in the conference RETCO-IV held at IUCAA, Pune, during April 17-20, 2019.

#### Research Projects (Major Grants/Research Collaboration)

#### Awards and Distinctions

#### Association With Professional Bodies

1. I was selected as a member of the International Advisory Committee of XI-th International Conference on Gravitation, Astrophysics and Cosmology of Asia-Pacific Countries, held in Kazakhstan, during October 2013.
2. I am a member of Indigo Consortium for gravitational waves detection, and have delivered series of lectures on Gravitational Waves held at various IUCAA workshops like in Tezpur University, Assam, in January, 2012, in BITS-Pilani, Goa Campus, in December, 2012, and in Kochi, Kerala, during December 28, 2015 - January 1, 2016.
3. I am a life member of Indian association of general relativity and gravitation (IAGRG).
4. I have been selected to be in the Department Research Committee of the Deptt. of physics, Indira Gandhi National Tribal University, Amarkantak (Chhattishgarh).

5. I have been selected to be a member of the UG Board of Studies in Physics, Pondicherry University, Puducherry.

Other Activities

I was selected by Homi Bhabha Centre of Science Education, TIFR, to lead the Indian delegation of physics students at the International Physics Olympiad held in Mumbai, India, during July 2015. I have been involved in International Olympiads since 2011. I was also selected by Homi Bhabha Centre of Science Education, TIFR, to lead the Indian delegation of physics students at the International Physics Olympiad held in Tallinn and Tartu, Estonia, during July 2012. I was part of the academic team of International Olympiad on Astronomy and Astrophysics, held at NISER, Bhubaneswar, in December 2016.

Signature of Faculty Member

- You are also requested to also give your complete resume as a DOC or PDF file to be attached as a link on your faculty page.