

➤ **Name:** Dr. Biswajit Paul

➤ **Date of Birth:** 01.11.1986

➤ **Date of Joining:** 01.08.2019

➤ **Teaching Experience:**

➤ **Brief Introduction:** I am an assistant professor in Mathematics since March, 2015. I am involved in under graduate teaching and doing research in quantum foundation. My thrust areas of teaching are Abstract Algebra, Linear Algebra, Real Analysis, Complex analysis, Classical Mechanics, Numerical Analysis etc.

➤ **Biography:** I have been completed B.Sc Honours in Mathematics from Ramakrishna Mission Residential College, Narendrapur in 2008 and M.Sc from university of Calcutta in 2010. After that I passed CSIR-NET in Mathematical Sciences in June, 2010. I have obtained Ph.D. degree in November, 2019 from University of Calcutta under the supervision of Prof. Debasis Sarkar, Department of Applied Mathematics. My Ph.D. title was” **Bell Inequalities and Quantum Correlations: Some Perspectives**”. I have been appointed as an assistant professor of mathematics at Balagarh Bijoy Krishna Mahavidyalaya in 2019 on the basis of mutual transfer on the recommendation of Department of Higher Education, Govt. of West Bengal. Before joining the Balagarh Bijoy Krishna Mahavidyalaya I worked as an assistant professor at St. Thomas College of Engineering & Technology and South Malda College during 2010-2015 and 2015-2019 respectively.

- **Academic Activities/Duties:** Examiner, reviewer and paper setter of B.Sc. Examinations (General and Honours) of Mathematics in the University of Burdwan and Gour-Banga University.
- **Teaching Area:** Abstract Algebra, Linear Algebra, Real Analysis, Complex analysis, Classical Mechanics, Numerical Analysis etc.
- **Orientation Programme/ Refresher Course/ Short-Term Course:**
  1. UGC Sponsored Orientation Programme for University and College Teachers organised by Academic Staff College, University of Calcutta during February 04, 2020 to February 24 , 2020.
  2. Participated in the UGC Sponsored Refresher Course on “Research Methodology: Tools and Techniques” organised by Academic Staff College, Mizoram University held from 7th July to 20th July 2020.
- **Administrative Experience(s):** I am holding few administration positions in my college which are listed below:

Head of the Department of Mathematics, Convener of Admission Committee, Convener of College Website and E-learning Portal,

Convener of RTI CELL, Member of Academic Committee, Member of NAAC CORE Committee, Member of Research & Development Committee.

➤ **Research Experience and Topic:** I have engaged densely in research work on Quantum foundation and quantum information theory since 2011. In particular, I am interested to find the relation between Quantum Entanglement and Non-locality.

➤ **Academic Memberships:**

➤ **Social Contribution:**

➤ **Honour/ Prize / Award:**

➤ **Exposure Visits:**

➤ **Publication Details:**

Serial No.	Title	Book/Journal	ISBN/ISSN	Whether UGC-Care Listed or Peer Reviewed	Published By	Date of Publication
1.	Simulation of Greenberger-Horne-Zeilinger correlations by relaxing physical constraints	Physical Review A	2469-9926	UGC-Care Listed And Peer Reviewed	American Physical Society	24.07.2013
2.	One sided indeterminism alone is	Quantum information Processing	1573-1332	UGC-Care Listed And Peer Reviewed	Springer US	27.05.2014

	not a useful resource to simulate any nonlocal correlation					
3.	Efficient test to demonstrate genuine three particle nonlocality	Journal of physics A : Mathematical & Theoretical	1751-8121	UGC-Care Listed And Peer Reviewed	IOP Science	26.10.2015
4.	Correlation in n local scenario	Quantum information Processing	1573-1332	UGC-Care Listed And Peer Reviewed	Springer US	11.04.2015
5.	Revealing hidden genuine tripartite nonlocality	Physical Review A	2469-9926	UGC-Care Listed And Peer Reviewed	American Physical Society	07.11.2016
6.	Nonlocality of three-qubit Greenberger-Horne-Zeilinger-symmetric states	Physical Review A	2469-9926	UGC-Care Listed And Peer Reviewed	American Physical Society	02.09.2016
7.	Revealing advantage in a quantum network	Quantum information Processing	1573-1332	UGC-Care Listed And Peer Reviewed	Springer US	23.03.2016
8.	Improvement in device-independent witnessing of genuine tripartite	Physical Review A	2469-9926	UGC-Care Listed And Peer Reviewed	American Physical Society	24.04.2017

	entanglement by local marginals					
9.	Conditional steering under the von Neumann scenario	Physical Review A	2469-9926	UGC-Care Listed And Peer Reviewed	American Physical Society	16.08.2017
10.	Nontrilocality: Exploiting nonlocality from three-particle systems	Physical Review A	2469-9926	UGC-Care Listed And Peer Reviewed	American Physical Society	01.08.2017
11.	Bell-CHSH violation under global unitary operations: Necessary and sufficient conditions	International Journal of Quantum Information	1793-6918	UGC-Care Listed And Peer Reviewed	World Scientific	01.06.2018
12.	Absolute non-violation of a three-setting steering inequality by two-qubit states	Quantum information Processing	1573-1332	UGC-Care Listed And Peer Reviewed	Springer US	24.11.2017
13.	Several trade off features of quantum steering in distributed scenario	<i>The European Physical Journal D</i>	1434-6060	UGC-Care Listed And Peer Reviewed	EDP Sciences, Società Italiana di Fisica and Springer Berlin Heidelberg	02.04.2019
14.	Detecting two qubit both-way positive discord states	<i>The European Physical Journal D</i>	1434-6060	UGC-Care Listed And Peer Reviewed	EDP Sciences, Società Italiana di Fisica and Springer Berlin Heidelberg	27.08.2019

15.	Restricted distribution of quantum correlations in bilocal network	Quantum information Processing	1573-1332	UGC-Care Listed And Peer Reviewed	Springer US	18.05.2019
16.	Characterizing quantum correlations in a fixed-input $n$ -local network scenario	Physical Review A	<b>2469-9926</b>	UGC-Care Listed And Peer Reviewed	American Physical Society	19.03.2020
17.	Genuine steering under sequential measurement scenario	Quantum information Processing	1573-1332	UGC-Care Listed And Peer Reviewed	Springer US	17.03.2020
18.	<b>Detection of genuine tripartite entanglement in quantum network scenario</b>	Quantum information Processing	1573-1332	UGC-Care Listed And Peer Reviewed	Springer US	17.07.2020
19.	<b>. Persistency of genuine correlations under particle loss</b>	Physical Review A	<b>2469-9926</b>	UGC-Care Listed And Peer Reviewed	American Physical Society	03.08.2020
20.	Shareability of quantum steering and its relation with entanglement	Physical Review A	<b>2469-9926</b>	UGC-Care Listed And Peer Reviewed	American Physical Society	06.11.2020

21.	Any two-qubit state has nonzero quantum discord under global unitary operations	<i>The European Physical Journal D</i>	1434-6060	UGC-Care Listed And Peer Reviewed	EDP Sciences, Società Italiana di Fisica and Springer Berlin Heidelberg	17.02.2021
22.	Revealing hidden steering non-locality in a quantum network	<i>The European Physical Journal D</i>	1434-6060	UGC-Care Listed And Peer Reviewed	EDP Sciences, Società Italiana di Fisica and Springer Berlin Heidelberg	04.08.2022

➤ **Paper Presentation Details:**

Serial No.	Title	Organized By	Date	Online/Offline