

Dr. Saibal Mitra

M.Sc, B.Ed, Ph.D Assistant Professor Department of Physics Ramananda College, Bishnupur, Bankura West Bengal, India E-mail: <u>saibalmitra999@gmail.com</u>



AREAS OF INTEREST/SPECIALISATION

- Quantum Optics
- Squeezed states of light
- Photonics
- Solid state Physics

ACADEMIC ACHIEVEMENTS

- **B.Sc** (1st Class) and **M.Sc** (1st Class) in Physics from the University of Burdwan in 2006 and 2008 respectively
- Qualified GATE with 96.95 percentile (All India rank 158) in Physics in 2009
- Qualified Joint CSIR-UGC NET (National Eligibility Test) for Junior Research Fellowship (All India rank 171) in Physical Science in June 2009
- Awarded **Ph.D** degree on 13th April, 2017

RESEARCH EXPERIENCE

From	То	Name and Address of Company / Organization	Position held
2013	2017	The University of Burdwan	Part time Researcher

ACADEMIC EXPERIENCE

- Assistant Professor in Physics, Department of Physics, Ramananda College, Bankura from 22.07.2020 to till date
- Assistant Professor in Physics, Department of Physics, Raj Narain College, Hajipur, Bihar from 04.10.2017 to 28.02.2018
- Assistant Teacher in Physics, Bandipur High School (H.S.), Hooghly from 25.09.2008 to 21.07.2020

PUBLICATIONS (List of Journals/Proceedings/Chapter in Books)

Year 2019

S. Mitra and S. Mukhopadhyay, "Analytical approach of reduction in bit error rate using amplitude-squeezed states of light", Journal of Optics (Springer), 48(2), 220-223 (2019).

Year 2015

S. Mitra and S. Mukhopadhyay, "An all optical scheme for implementing a NAND logic by dibit representation of squeezed state of light", Journal of nonlinear optical physics and materials (World Scientific), 24(4), 1550048(2015).

S. Mitra and S. Mukhopadhyay, "A new proposal of modulation of amplitude squeezed state of light by intensity variation of a low frequency coherent message signal", Chinese Optics Letters (OSA) 13(1), 012702(2015).

Year 2014

S. Mitra and S. Mukhopadhyay, "Analytical investigation on interactions among squeezed vacuum and coherent state, coherent vacuum and squeezed state, and among phase squeezed and amplitude squeezed states of light", Optik – International Journal for Light and Electron Optics(Elsevier) 125(20), 4497-4500 (2014).

Year 2013

S. Mitra and S.Mukhopadhyay, "An analytical investigation on the interactions between a squeezed and a coherent optical signal", Optik – International Journal for Light and Electron Optics (Elsevier) 124(20), 4586-4589 (2013).

CONFERENCE PAPERS

Year 2013

S. Mitra and S. Mukhopadhyay, "An analytical study to find out the photon number fluctuation of two interacted squeezed state of light signals to generate a highly noise reduced digital signal for computation and communication of data" Second International Conference on Computing and Systems-2013, September 21-22,2013 organized by Department of Computer Science, The University of Burdwan, West Bengal (Full paper published in the proceedings).

<u>Year 2014</u>

S. Mitra and S. Mukhopadhyay, "A new proposal of modulation of amplitude squeezed state of light by the variation of low frequency coherent message signal" International Conference on optics and Optoelectronics -2014, March 05-08, 2014 (XXXVIII

Symposium of Optical Society of India) at Instruments Research and Development Establishment, Dehradun, Uttarakhand (Full paper published in the proceedings).

PRESENTATIONS

Year 2013

Presented paper in second International Conference on Computing and Systems-2013, September 21-22, 2013 organized by Department of Computer Science, The University of Burdwan, West Bengal.

Year 2014

Presented paper in International Conference on optics and Optoelectronics -2014, March 05-08, 2014 (XXXVIII Symposium of Optical Society of India) at Instruments Research and Development Establishment, Dehradun, Uttarakhand.

PERSONAL DETAILS IN BRIEF

Date of Birth	: 02.05.1986
Marital Status	: Married
Nationality	: Indian
Current Designation	a: Assistant Professor
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