

Jogia Bandyopadhyay

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EDUCATION

Ph.D. (August 2008)

Georgia Institute of Technology

September 2003 – August 2008

School of Physics

Advisor: Professor Eric A. Carlen, Department of Mathematics, Rutgers University (on leave from Georgia Institute of Technology)

Selected courses taken : Mathematical Methods in Physics, Classical Mechanics II, Statistical Mechanics II, Quantum Field Theory, Renormalization Theory (listed as Special Topics Course in the official transcript), Introduction to Hilbert Spaces.

CGPA : 3.9/4.

M.Sc. in Physics

Indian Institute of Technology, Kharagpur

July 2001 – May 2003

Selected courses taken : Classical Mechanics , Electromagnetic Theory I & II, Mathematical Physics, Statistical Mechanics, Quantum Mechanics II, Elementary Particles and Strong Interactions.

CGPA : 8.27/10.

B.Sc. in Physics

University of Calcutta, Calcutta, India

July 1998 – June 2001

PUBLICATIONS

Bandyopadhyay, J. , “Optimal Concentration for $SU(1, 1)$ Coherent State Transforms and An Analogue of the Lieb-Wehrl Conjecture for $SU(1, 1)$ ”, *Communications in Mathematical Physics* 285, 1065-1086, 2009.

AWARDS AND HONORS

- Student Travel Award (2006) to attend a workshop on Geometric Analysis and Non-linear Partial Differential Equations at MSRI, Berkeley.
- Best Research Project Award (2003) for Master’s Thesis, Indian Institute of Technology, Kharagpur.

RESEARCH EXPERIENCE

Georgia Institute of Technology, Atlanta, GA

Graduate Student: Research on sharp entropy–energy inequalities on symplectic Riemannian manifolds, which are phase spaces for classical systems.

Tata Institute of Fundamental Research, Mumbai, India

Visiting Student Summer Research Program: Research project on Bose-Einstein Condensation in Trapped Gases.

Indian Institute of Technology, Kharagpur, India

Master’s Thesis: Angular Momentum Coherent States and the Group $SL(2, C)$.

TEACHING EXPERIENCE

PHYS4142 - Teaching Assistant for intermediate level Statistical Mechanics course open to both graduate and advanced undergraduate students. Gave three lectures, held office hours, graded home works and exams.

PHYS6107 - Teaching Assistant for graduate level Statistical Mechanics course. Held office hours, graded home works and exams.

PHYS6101 - Teaching Assistant for graduate level Classical Mechanics course. Held office hours, graded home works and exams.

PRESENTATIONS

Angular Momentum Coherent States and the Group $SL(2, C)$, Indian Institute of Technology, Kharagpur, May, 2003.

Bose-Einstein Condensation in Trapped Gases, Tata Institute of Fundamental Research, June, 2002.