

BIKRAM PAL
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EDUCATION

Integrated BSMS, *Indian Institute of Science Education and Research Kolkata.* 08/2023–05/2028
Physics Major and Mathematics & Statistics Minor.

Higher Secondary Education, *Birbhum Zilla School.* 06/2021–05/2023
Subjects : Phys, Math, Stat, Chem

RESEARCH INTEREST

Statistical Physics : Percolation Theory, Phase Transition, Theory of Critical Phenomena.
Turbulence and Fluids : Phenomenology, Intermittency in 2D and 3D turbulence.

RESEARCH EXPERIENCE (Selected)

Max Planck Institut für Physik komplexer Systeme 10/2025–
Mentor: Prof. Abbas Ali Saberi Dresden, Germany
Description : Universal gap scaling in percolation on 2D fractional Brownian surfaces.

International Centre for Theoretical Sciences, ICTS-TIFR 5/2025–
Mentor: Prof. Deepak Dhar Bengaluru, India
Description : Effect of hyperuniform disorder in lattice systems.

International Centre for Theoretical Sciences, ICTS-TIFR 8/2024–
Mentor: Prof. Samriddhi Sankar Ray Bengaluru, India
Description : A shell model study of Euler Voigt and Navier Stokes Voigt equations.

HONORS, AWARDS & SCHOLARSHIPS

Awarded NIUS scholarship (INR 130k+) to support my work at ICTS-TIFR. 06/2024–05/2026
Awarded INSPIRE fellowship (INR 80k per year) by Government of India. 01/2024–05/2028
Awarded Summer Research fellowship at IIT Kharagpur. 06/2024–07/2024
Ranked 13/700k+ in grade 12th WBCHSE 2023. 05/2023

MANUSCRIPTS (In preparation for peer review)

B.Pal, D. Dhar. *Scaling of the variance of conductivity with system size in random resistor networks.*
(Manuscript under preparation)

A. Kankaria, **B.Pal**, S.S.Ray. *A shell model study of Voigt model of turbulence.* (In progress)