

# BIKRAM PAL

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## EDUCATION

- 2023–'28 **Indian Institute of Science Education and Research Kolkata, India**  
Integrated Master's in Physics  
**Birbhum Zilla School, West Bengal, India**
- 2021–'23 Higher Secondary Education, *West Bengal Council of Higher Secondary Education*

## RESEARCH INTEREST

Broadly in equilibrium and non-equilibrium statistical physics and physics of complex systems  
eg. turbulence and shell model, critical phenomena, phase transition and physics of life.

## PUBLICATIONS

1. **B. Pal**, *Conductance fluctuations in random resistor networks with hyperuniform disorder*.  
(Under review)
2. **B. Pal**, A. Kankaria and S. S. Ray, *A shell-model study of the Voigt model of turbulence*.  
(Preprint available upon request)

## RESEARCH EXPERIENCE

- 2025– **Max Planck Institut für Physik komplexer Systeme, Dresden, Germany**  
Mentor : Prof. Abbas Ali Saberi (*Now: Constructor University, Bremen, Germany*)  
Title of Project : *Universal gap scaling in percolation on 2D fractional Brownian surfaces*.
- 2025– **International Centre for Theoretical Sciences, Bengaluru, India**  
Mentor : Prof. Deepak Dhar  
Title of Project #1 : *Conductance fluctuation in random resistor networks*  
Title of Project #2 : *On entropy and stability of HDD phase of hard rods on lattice*.
- 2024–'26 **International Centre for Theoretical Sciences, Bengaluru, India**  
Mentor : Prof. Samriddhi Sankar Ray  
Title of Project : *A shell model study of Voigt model of turbulence*.

## HONORS & FELLOWSHIPS

### (ACADEMIC)

- 2026 Awarded fully funded summer research fellowship at Max Planck Institut für Physik komplexer Systeme(MPIPKS), Biophysics programme.
- 2026 Selected for the Max Planck School Matter to Life (MPS-MtL) Undergraduate Research Opportunity(URO) as one of the top 10 applicants globally. (*Did not avail*)
- 2024–'26 Awarded NIUS scholarship (INR 130k+) by HBCSE-TIFR, Mumbai to support my research at International Centre for Theoretical Sciences Bengaluru.
- 2024 Awarded summer research fellowship to work at IIT Kharagpur.
- 2023–'28 Awarded INSPIRE fellowship (INR 80k per year) by Government of India.

### (NON-ACADEMIC)

- 2026 Ranked #1 in *Decoherence*, a pan-India physics competition organized by IISc Bangalore
- 2025 Ranked #1 in *Abhiprajna*, a pan-India science Contest organized by IISER Tirupati.
- 2022–2023 Ranked #1 in multiple state-level debate competitions organized by Govt. of West Bengal.