Lakpa Tamang
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Subject specialization: Condensed Matter Physics

Area of Research Interest: Theoretical Condensed Matter Physics

Achievement & Awards:

- Qualified IIT-JAM
- Qualified CSIR-NET (JRF) December 2017 and June 2018.
- Qualified WB SET 2017.
- Qualified GATE 2018
- **BEST POSTER AWARD** in 66th DAE Solid State Physics Symposium held at Birla Institute of Technology Mesra, Ranchi, during 18-22 December 2022.

Professional experiences:

Assistant Professor, Department of Physics, University of North Bengal, Raja Rammohunpur, West Bengal-734013, India, since 2018.

List of Journal publications + Conference proceedings:

1. **L. Tamang**, T. Nag, and T. Biswas, Floquet engineering of low-energy dispersions and dynamical localization in a periodically kicked three-band system, ***Phys. Rev. B 104***, 174308 (2021).

2. **L. Tamang** and T. Biswas**,** Probing topological signatures in an optically driven $\boldsymbol{\alpha - T_3}$ lattice, ***Phys. Rev. B 107***, 085408 (2023).

3. **L. Tamang**, Sonu Verma, and T. Biswas, Orbital magnetization senses the topological phase transition in a spin-orbit coupled $\boldsymbol{\alpha - T_3}$ system, ***Phys. Rev. B 110***, 165426 (2024).

4. **L. Tamang**, K. Chakraborty, T. Biswas, Valley Hall Effect in Symmetrically Biased Dice Lattice, **International Journal of Innovative Research in Physics 4 (1), 23-28 (2022).**

5. **L. Tamang**, T. Biswas, Valley-Controlled Transport in an Optically Driven Dice Lattice, **AIP Conf. Proc. 2995**, 020131 (2024).

6. K. Chakraborty, **L. Tamang**, Valley-Controlled Anomalous Nernst Effect in an Optically Driven biased Dice Lattice, **International Journal of Innovative Research in Physics 5 (2),** 45-50 (2024).

7. **L. Tamang,** Spin and valley dependent transport in a biased dice lattice, **JOURNAL of PHYSICS Research and Education**, **(2),** 71-79 (2024).

Completed /Ongoing Project:

Project Title	Worked As	Funding Agency	Amount	Duration	Year	Status
A wave packet dynamics in a driven Dirac system.	Principle Investigator	NBU	Rs 1,50,000	One year	2020-2021	Completed