## Curriculum Vitae

#### **Personal Information:**

- Name: Sorokhaibam Nilakash Singh
- Place of Birth: Kakching, Manipur, India
- Date of Birth: December 31, 1988
- Nationality: Indian
- Gender: Male

#### **Present Position:**

INSPIRE-Faculty fellow, Department of Physics, Tezpur University

#### **Past Positions:**

Bridging post-doctoral fellow, October, 2016 - February, 2018 Department of Physics, Harish-Chandra Research Institute, India.

Post-doctoral fellow, March, 2018 - September, 2019 Department of Physics, Harish-Chandra Research Institute, India.

Post-doctoral fellow, March, October, 2019 - July, 2021 School of Physical Sciences, National Institute of Science Education and Research India.

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### Educational Qualification:

Bachelor of Science (Physics honours, 2009), University of Delhi Master of Science (Physics, 2018), Tata Institute of Fundamental Research, Mumbai. PhD (February 16, 2018), Tata Institute of Fundamental Research, Mumbai.

### **Research Interest:**

Quantum dynamics, Quantum chaos, Quantum gravity, Cond-mat systems, Blackhole physics, Quantum computation and Quantum information.

# List of Publications and Preprints

(1) N. Sorokhaibam, "Traversable wormhole without interaction," [arXiv:2007.07169 [hep-th]].

(2) T. Samui and N. Sorokhaibam, "Thermalization in different phases of charged SYK model," JHEP **04** (2021), 157 [arXiv:2004.14376 [hep-th]].

(3) N. Sorokhaibam, "Phase transition and chaos in charged SYK model," JHEP **07** (2020), 055 [arXiv:1912.04326 [hep-th]].

(4) R. Bhattacharya, D. P. Jatkar and N. Sorokhaibam, "Quantum Quenches and Thermalization in SYK models," JHEP **07** (2019), 066 [arXiv:1811.06006 [hep-th]].

(5) S. Paranjape and N. Sorokhaibam, "Exact Growth of Entanglement and Dynamical Phase Transition in Global Fermionic Quench," [arXiv:1609.02926 [hep-th]].

(6) G. Mandal, S. Paranjape and N. Sorokhaibam, "Thermalization in 2D critical quench and UV/IR mixing," JHEP **01** (2018), 027 [arXiv:1512.02187 [hep-th]].

(7) G. Mandal, R. Sinha and N. Sorokhaibam, "Thermalization with chemical potentials, and higher spin black holes," JHEP **08**, 013 (2015) [arXiv:1501.04580 [hep-th]].

(8) G. Mandal, R. Sinha and N. Sorokhaibam, "The inside outs of  $AdS_3/CFT_2$ : exact AdS wormholes with entangled CFT duals," JHEP **1501**, 036 (2015) [arXiv:1405.6695 [hep-th]].