

# Abhirup Mukherjee | List of Publications

1. Abhirup Mukherjee, N S Vidhyadhiraja, A Taraphder, S Lal. Kondo frustration via charge fluctuations: a route to Mott localisation. **New J. Phys.** **25** 113011 (2023-11)
2. Abhirup Mukherjee, S R. Hassan, A Mukherjee, N S. Vidhyadhiraja, A Taraphder, S Lal. Mott Criticality as the Confinement Transition of a Pseudogap-Mott Metal. **arXiv:2507.17201** (2025-07)
3. A Mukherjee, Abhirup Mukherjee, N S. Vidhyadhiraja, A Taraphder, S Lal. Unveiling the Kondo cloud: Unitary renormalization-group study of the Kondo model. **Phys. Rev. B** **105**, 085119 (2022-02)
4. S Patra, Abhirup Mukherjee, A Mukherjee, N S Vidhyadhiraja, A Taraphder, S Lal. Frustration shapes multi-channel Kondo physics: a star graph perspective. **J. Phys.: Condens. Matter** **35** 315601 (2023-05)
5. D Debata\*, A Kumar\*, Abhirup Mukherjee, N S Vidhyadhiraja, S Lal. Quantum Critical Mott Transitions in a Three-Orbital Model System. **In preparation** (2024)
6. Abhirup Mukherjee, S Patra, S Lal. Holographic entanglement renormalisation for fermionic quantum matter. **J. Phys. A: Math. Theor.** **57** 275401 (2024-06)
7. A Kumar N M, S Mukherjee, Abhirup Mukherjee, A Punjal, S Purwar, T Setti, S Prabhu S., S Lal, N Kamaraju. Revealing the magnetic dimensional crossover in the Heisenberg ferromagnet  $\text{CrSiTe}_3$  through picosecond strain pulses. **Phys. Rev. B** **111**, L140414 (2025-04)