PUBLICATION LIST K. Levin

Areas Of Past Research:

Magnetism and **Alloys**
Superfluid helium – 3
Magnetic Superconductors
Heavy Fermion Metals
Coexistent BCS CDW Superconductors
Spin Glasses
Disorder And Localization

Some Current Interests:

1. **Connections between High Tc Superconductors** and **Magic Angle Graphene**
2. **BCS – BEC In Fermi Gases** and **Solids**
3. **Non – equilibrium Dynamics in Ultracold Superfluids**
4. **Conserving Theories Of Transport In Highly Correlated Super – conductors/fluids**
5. **Topological Superconductors, Superfluids**

234 "Kekule Superconductivity in Twisted Magic Angle Bilayer Graphene" Ke Wang and K. Levin ArXiv 2510.06451

233 "Anomalous Superfluid density in Pair-Density-Wave Superconductors, Ke Wang, Qijin Chen, rufus Boyack and K. Levin ArXiv 2506.13631

232 "Universal approach to light driven "superconductivity" via preformed pairs" Ke Wang, Zhiqiang Wang, Qijin Chen and K. Levin npj Quanum Materials 10, 73 (2025)

231 "The Higgs amplitude mode in the optical conductivity in the presence of supercurrent: Gauge invariant formulation with disorder" Phys Rev B 111, 144512 (2025) Ke Wang, Rufus Boyack and K. Levin

230. "Superconductivity on the edge of vanishing magnetic order Zhiqiang Wang, Ke Wang and K. Levin ArXiv 2506.18996

229. Universal coherent atom-molecule oscillations in the dynamics of the unitary Bose gas: effects of a narrow Feshbach resonance Ke Wang, Shu Nagata, Zhendong Zhang, Zhiqiang Wang, and K. Levin Phys. Rev. Research 7, L012025 (2025)

228 "Tunable molecular interactions near an atomic Feshbach resonance: stability and

collapse of a molecular Bose-Einstein condensate Zhiqiang Wang, Ke Wang, Xhendong Zhang, Qijin Chen, Cheng Chin and K. Levin ArXiv. 2504.09182

227 "Test for BCS-BEC Crossover in the Cuprate Superconductors" Qijin Chen, Zhiqiang Wang, Rufus Boyack and K. Levin, Nature (npj Quantum Materials 9, 27 (2024))

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221. "Unified approach to electrical and thermal transport in high-Tc superconductors", Rufus Boyack, Zhiqiang Wang, Qijin Chen and K. Levin Phys. Rev. B 104, 064508 (2021)

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