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

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**

224. "When superconductivity crosses over: From BCS to BEC", Qijin Chen, Zhiqiang Wang, Shuolong Yang, and K. Levin" (A review, preprint, 2022)

223. "Heat bath approach to anomalous thermal transport: effects of inelastic scattering", Zhiqiang Wang, Rufus Boyack and K. Levin (ArXiv 2112.13148) in proof stage

222. "Dynamic preparation of an atomic condensate in a Hofstadter band", Han Fu, Andreas Glatz, Fnu Setiawan, Kai-Xuan Yao, Zhandong Zhang, Cheng Chin and K. Levin (ArXiv 2107.11547) in proof stage

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)

220 "Quantum Geometric Contributions to the BKT Transition: Beyond Mean Field Theory", Zhiqiang Wang, Gaurav Chaudhary, Qijin Chen and K. Levin, Phys. Rev. B 102, 184504 (2020).

219. "Jet Substructure in Fireworks Emission from Non-Uniform Bose Einstein

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218. "Strong Pairing in two dimensions: Pseudogaps, Domes and other implications" Xiaoyu Wang, Qijin Chen and K. Levin New Journal of Physics, 22, 063050 (2020).

217. "Full Proximity Treatment of Topological Superconductors in Josephson Junction architectures" F. Setiawan, Chien-Te Wu and K. Levin Phys. Rev. B 99, 174511 (2019).

216 Combined effects of pairing fluctuations and a pseudogap in the cuprate Hall effect, Rufus Boyack, Xiaoyu Wang, Qijin Chen and K. Levin Phys. Rev. B 99, 134504 (2019)

215. Density Waves and Jet Emission Asymmetry in Bose Fireworks, Han Fu, Lei Feng, Brandon Anderson, Logan Clark, Jiazhong Hu, Jeffery Andrade, Cheng Chin and K. Levin PRL 121, 243001 (2018). [See also New Scientist Dec 31, https://www.newscientist.com/article/2188853-ultracold-atoms-can-make-strange-and-beautiful-quantum-fireworks/].

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Chien-Te Wu, F. Setiawan, Brandon Anderson, WeiHan Hsiao and K. Levin Phys. Rev. B 98,064504 (2018)

213. Observation of Density Dependent Gauge fields in a Bose-Einstein condensate, Logan Clark, Brandon Anderson, Lei Feng, K. Levin and Cheng Chin Phys. Rev. Lett. 121, 030402 (2018).

212. Cuprate Diamagnetism in the presence of a pseudogap: Beyond the standard fluctuation formalism, Rufus Boyack, Qijin Chen, A. A. Varlamov and K. Levin
Phys. Rev. B 97, 064503 (2018)

211. Collective mode contributions to the Meissner effect: Fulde Ferrell and pair-density-wave superfluids.
Rufus Boyack, Chien-Te Wu, Brandon M. Anderson and K. Levin
Phys. Rev. B. 95, 214501 (2017)

210. Direct Lattice Shaking of Bose Condensates: Finite Momentum Superfluids
Brandon Anderson, Logan Clark, Jennifer Crawford, A. Glatz, I. Aranson, P. Scherpelz, Lei Feng, Cheng Chin and K. Levin
Phys. Rev. Lett. 118, 220401 (2017)

209. Majorana Zero Modes in Spintronics devices,
Chien-Te Wu, Brandon Anderson, Wei-Han Hsiao and K. Levin
Phys. Rev. B 95, 014519 (2016)

208. Two-dimensional spin-imbalanced Fermi gases at non-zero temperature:
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207. Gauge invariant theories of linear response for strongly correlated superconductors
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206. Correcting inconsistencies in the conventional superfluid path integral scheme
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