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M2PL1-01: The National MagLab and Unsolved Mysteries in Superconductors

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Unconventional superconductors differ from conventional superconductors in that they typically exhibit a ubiquitous phase diagram with intriguing, correlated electron phases that break the symmetry of the underlying lattice at temperatures well above T_c . These non-Fermi liquid phases remain some of the greatest unsolved problems in physics. After an introduction to the MagLab and an overview of unconventional superconductivity, I will present some of our planar tunneling revealing a possible new pairing mechanism in the heavy-fermion superconductor CeCoIn₅.

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