Abstract Submitted
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Holographic Entanglement Spectrum[1] NOAH BRAY-ALI, Physics and Astronomy Department, University of Kentucky — We evaluate the entanglement spectrum (singular value decomposition of the wavefunction) of paired states of fermions in two dimensions that break parity and time-reversal symmetries. The spectrum takes a quasi-particle form within the BCS approximation and contains a one-dimensional Majorana fermion excitation in the weak-pairing (BCS) phase. Experimentally relevant systems include condensates of p-wave Feshbach resonant atoms in a pancake trap and quantum Hall liquids in a half-filled Landau level.

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