

Abstract Submitted
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Supersymmetry from Strongly Interacting Majoranas¹ ARMIN RAHMANI, XIAOYU ZHU, MARCEL FRANZ, IAN AFFLECK, UBC — We show that a strongly interacting chain of Majorana zero modes exhibits a supersymmetric quantum critical point corresponding to the tricritical Ising model, separating the Ising critical phase from a doubly degenerate gapped phase. The supersymmetry extends into a gapped phase. We identify the signatures of our predictions in tunneling experiments.

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