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Scaling analysis of the magnetic field-tuned quantum phase transition in superconducting amorphous Pb films NICHOLAS OLSON, Monmouth College, IL, ASHWANI KUMAR, Monmouth College, Monmouth, IL — Quantum phase transitions are the transitions (QPTs) that take place at absolute zero, where the crossing of the phase boundary changes the quantum mechanical ground state. Superconductor to insulator transitions is the prime examples of the QPTs. In these transitions the phase boundary can be crossed using various parameters such as disorder, magnetic field, charge carrier density etc. In this presentation we will talk about the scaling analysis of the magnetic field tuned superconductor to insulator quantum phase transition.

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