

Weizmann Institute , Condensed Matter Seminar

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Majorana fermions in the superconducting qubit architecture

Solid state Majorana fermions are generating intensive interest due to their unique properties and possible applications in fault tolerant quantum memory devices. In this talk I will describe a method to detect signatures of Majorana fermions in hybrid devices by employing the sensitive apparatus of the superconducting charge-qubit architecture and its efficient coupling to microwave photons.