

Majorana bound states in topological superconductors coupled to photons

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Embedding quantum materials in photonic cavities provides a promising avenue to probe and control properties of these materials. I will discuss a topological superconductor that hosts Majorana bound states coupled to cavity photons. I will demonstrate how coupling to cavity photons could be used to probe signatures of the Majorana bound states in long electronic chains. Moreover, I will show that cavity embedding could be used to realise so-called “poor man’s Majorana bound states” in short electronic chains.

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