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Modelling entanglement harvesting implementations in superconducting circuits

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Implementing RQI protocols such as entanglement harvesting in superconducting circuits requires moving beyond idealized UDW detector models. These implementations use superconducting qubits tunably coupled to transmission lines, which serve as one-dimensional quantum fields. We will present a series of upgrades to UDW detector models needed to capture such experimental implementations, and examine the impact of these modifications on entanglement harvesting.

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