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Single Microwave Photon Detection with Josephson Junctions for Axion Search: First Tests

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The fast development of quantum technologies based on superconducting devices is particularly important for the search of light dark matter, such as Axions and Axion-like particles, where it is required the efficient detection of single microwave photons with low dark-count rates. We present SIMP, an experiment for the axion search based on the use of a current biased Josephson junction detector, and discuss the experimental results obtained with a first test system.

Primary author(s) : CHIARELLO, Fabio (CNR-IFN)

Presenter(s) : CHIARELLO, Fabio (CNR-IFN)

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