19th Patras Workshop on Axions, WIMPs and WISPs



Contribution ID: 65 Type: Talk

Fundamental Physics Search with SRF Cavities (SHANHE Collaboration)

Monday, 16 September 2024 15:35 (20 minutes)

The search for ultralight boson dark matter and high-frequency gravitational waves has widely employed electromagnetic resonant detectors, such as cavities and LC circuits. This talk will highlight recent experimental advancements within the SHANHE Collaboration using superconducting radiofrequency (SRF) cavities for detecting dark photon dark matter and investigating galactic dark photons. Additionally, it will explore the future potential of these detectors in probing dark sectors, with a particular focus on upgrades that enable them to function simultaneously as resonant and broadband instruments.

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Session Classification: Afternoon