

Vulcano Workshop 2018 - Frontier Objects in Astrophysics and Particle Physics



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Dark photon searches and the PADME experiment

While accelerator particle physics has traditionally focused on exploring dark matter through high energy machines, inspired by the WIMP paradigm, testing dark-sectors hypothesis requires innovative low energy and high intensity beams.

This scenario offers attractive opportunities to low energy machine and small size experiments with high sensitivity detectors. In this paper we will focus our attention on the Dark Photon (DP) scenario, reviewing the current status of searches and new opportunities, with particular attention to the PADME experiment at Laboratori Nazionali di Frascati.

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