

Strongly coupled dark sector and dark pions

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We studied the phenomenology and experimental searches of the dark pions, which are the lightest hadrons in a hidden sector confining gauge theory. Such a scenario arises in many extensions of the Standard Model (SM). We consider that the leading interactions between the light hidden sector quarks and the SM particles come from the mixing of the light hidden quarks with heavy electroweak doublet states through Higgs Yukawa couplings, so that the leading portals are the Z and Higgs bosons. We will also point interesting cosmological aspects of strongly coupled dark sector models.

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Dark matter

Primary author: LI, Lingfeng (Brown University)

Presenter: LI, Lingfeng (Brown University)

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