

Probing light hidden sectors via the U(1) portal

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Abstract: I will discuss some of the motivations for considering new physics in a hidden sector, which interacts with the Standard Model via light GeV-scale mediators. For example, this sector may naturally contain a dark matter candidate. The focus will be on experimental probes of the light mediators, primarily through the vector portal - where a secluded U(1) sector kinetically mixes with the photon - using fixed target neutrino experiments, B-factories and rare kaon decays.

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