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Long Lived Particles and Dark Photons at LHCb

Thursday 5 April 2018 14:30 (15 minutes)

Recent results are presented on searches at LHCb for both prompt-like and long-lived dark photons, produced in proton-proton collisions at a center-of-mass energy of 13 TeV, using decays into two muons. A search for long-lived particles with a mass between 25 and 50 GeV/c^2 and a lifetime between 2 and 500 ps is presented as well, where the signature is a single long-lived particle identified by a displaced vertex with two associated jets.

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