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CMS: Dark showers in B-parked data

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Among the novel models that provide explanation to the nature of dark matter, hidden valley models include a dark sector that extends the Standard Model (SM) with a non-Abelian gauge group, similar to the SM quantum chromodynamics. They predict the production of dark showers, which are dark hadrons with high multiplicity, which can result in a rich phenomenology of displaced decays back into SM particles. In this talk we present the most recent results from CMS that probe the dark sector using B-parked data collected at the LHC.

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