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Search for long-lived massive particles at CMS

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Several models of new physics, including split supersymmetry, predict the existence of a heavy particle, which is long-lived on the timescales of the bunch spacing of the Large Hadron Collider (LHC). Such a particle would be observable using the Compact Muon Solenoid (CMS) at the LHC, and although produced at high momentum, it would travel slowly due to its large mass. We describe a search for these particles, using the experimental techniques of time of flight and dE/dx measurement. Results are presented based on data recorded with CMS in 2011.

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Collaboration Name
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