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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 timescales of the bunch spacing of the LHC. We present the results of several searches for these particles, using various experimental techniques, from out-of-time decays in the CMS calorimeter to use of highly displaced vertices, timing, and dE/dx techniques. We present results of these searches based on data recorded with CMS in 2010 and 2011.

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