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Search for disappearing tracks

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We present a search for long-lived charged particles that decay within the CMS detector and produce the signature of a disappearing track. Disappearing tracks are identified as those with little or no associated calorimeter energy deposits and with missing hits in the outer layers of the tracker. The search uses proton-proton collision data recorded at $\sqrt{s} = 8\text{TeV}$ that corresponds to an integrated luminosity of $19.5/\text{fb}$. The results of the search are interpreted in the context of the anomaly-mediated supersymmetry breaking model and in terms of the phenomenological MSSM.

Oral or Poster Presentation

Oral

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