

## Search for Charged Massive Long-Lived Particles Using Data from D0

We report on a new search for charged massive stable particles (CMSPs) at the D0 Experiment at the Fermilab Tevatron collider. These electrically charged particles have sufficiently long lifetimes to penetrate through the entire D0 detector before decaying. CMSPs are predicted in many theories beyond the Standard Model. We use time-of-flight information to search for pair-produced CMSPs, based on the signature of two particles, reconstructed as muons, with speed and invariant mass inconsistent with beam-produced muons. The analysis uses data taken by the D0 detector in Run II.

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