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Search for Charged Massive Long-Lived Particles

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We report on a search for charged massive long-lived particles (CMLLPs), based on data collected with the D0 detector at the Fermilab Tevatron ppbar collider. We search for events in which one or more particles are reconstructed as muons but have speed and ionization energy loss (dE/dx) inconsistent with muons produced in beam collisions. CMLLPs are predicted in several theories of physics beyond the standard model. We present limits on massive long-lived particles in several supersymmetric theories.

Author: Prof. GERSHTEIN, Yuri (Rutgers University (US))

Presenter: Prof. GERSHTEIN, Yuri (Rutgers University (US))

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