

Abstract Submitted
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A Search for Charged Massive Long-Lived Particles at the Fermilab Tevatron SUNGWOONG CHO, Korea University, Seoul, Korea, D0 COLLABORATION — We report on an updated search for Charged Massive Long-Lived Particles (CMLLPs) by the DZero Experiment at the Fermilab Tevatron Collider. CMLLPs are predicted in many theories beyond the Standard Model. The search is based on the signature of two particles reconstructed as muons but with speed and invariant mass of the two particles inconsistent with muons produced in beam-beam collisions. This analysis updates a previous DZero analysis with a larger data sample and improved analysis methods. We present limits for a variety of possible CMLLP models.

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