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Search for charged massive long-lived particles at D0 YUNHE XIE, Brown University, D0 COLLABORATION — We report on a new search for charged massive long-lived particles (CMLLP) by the D0 Experiment at Fermilab's Tevatron. CMLLP are predicted in many theories beyond Standard Model. Time-of-flight information was used in the search for pair-produced CMLLPs, based on the signature of two particles, reconstructed as muons, with speed and invariant mass inconsistent with beam-produced muons. The analysis was done with the data taken by D0 detector in Run II cor- responding to an integrated luminosity of 3 fb^{-1}. Limits on the pair production of CMLLPs are presented quasi-model independently.

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