

Abstract Submitted
for the APR18 Meeting of
The American Physical Society

Search for Displaced Leptons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV BRYAN CARDWELL, Ohio State Univ - Columbus, CMS COLLABORATION — We present the status of a search for long-lived particles decaying to leptons using 13 TeV center-of-mass energy proton-proton collisions produced at the LHC. The final state of interest includes at least one electron and at least one muon, each having a transverse impact parameter greater than 200 microns. To maximize generality, no requirements are placed on any other final state objects. We present the expected sensitivity of this search to stop quark mass and lifetime using data collected by the CMS detector in 2016 corresponding to an integrated luminosity of 16.1 /fb.

Bryan Cardwell
Ohio State Univ - Columbus

Date submitted: 10 Jan 2018

Electronic form version 1.4