

Mu2e: A High-Sensitivity Charged Lepton Flavor-Violating Search at Fermilab

Friday, 22 June 2012 09:30 (30 minutes)

The Mu2e Experiment will search for coherent, neutrino-less conversion of muons into electrons in the field of a nucleus, with a sensitivity improvement of a factor of 10,000 over existing limits. Such a charged lepton flavor-violating reaction probes new physics complementary to the LHC and can reach a scale unavailable by direct searches at either present or planned high energy colliders. The design of the muon beamline and spectrometer. A scheme by which the experiment can be mounted in the present Fermilab accelerator complex will be described.

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Session Classification: Fri 9:00-10:30