

# XXIV International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS16)



Contribution ID: 132

Type: **not specified**

## The Mu2e Experiment at Fermilab

*Wednesday, April 13, 2016 4:30 PM (20 minutes)*

The Mu2e Experiment at Fermilab will search for coherent, neutrinoless conversion of muons into electrons in the field of a nucleus with a sensitivity improvement of a factor of 10,000 over previous experiments. Such a charged lepton flavor-violating reaction probes new physics at a scale inaccessible with direct searches at either present or planned high energy colliders. The experiment both complements and extends the current search for muon decay to electron+gamma at MEG and searches for new physics at the LHC. We will present the physics motivation for Mu2e, the novel design of the muon beamline and the detector, and the current status of the experiment.

### Summary

We will present the physics motivation and status of the Mu2e experiment at Fermilab.

**Primary author:** CORCORAN, Marjorie (Rice University)

**Presenter:** MORESCALCHI, Luca (Pisa)

**Session Classification:** WG7 Future Experiments

**Track Classification:** Future Experiments