Contribution ID: **11** Type: **Parallel session talk**

The Mu2e Experiment

Tuesday, January 11, 2022 4:50 PM (20 minutes)

The Mu2e experiment will search for the charged lepton flavor violating process of muon-to-electron conversion in the field of an aluminum nucleus. Muon-to-electron conversion is heavily suppressed in the standard model and so an observation of this signal would be a clear sign of new physics. Mu2e will search for the mono-energetic, 105 MeV electron signal with a discovery potential four orders of magnitude better than previous experiments. In this talk, I will give an overview of the Mu2e experiment as well as an update of its current status.

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Session Classification: Quark and charged lepton flavour

Track Classification: Flavour