

## The Mu2e experiment: Overview and current status

The Mu2e experiment is a charged lepton flavor violation experiment located at Fermilab, and will search for neutrinoless muon-to-electron conversion in the presence of an aluminum nuclear field. If found, muon-to-electron conversion would unequivocally become evidence of new physics beyond the Standard Model. Mu2e aims to constrain the current signal experimental limits by four orders of magnitude. This presentation will provide an overview of the Mu2e experiment as well as a report of the current status, including the completion of the detector construction prior to the first experimental run, scheduled for 2027.

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