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The Mu2e experiment at Fermilab

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The Mu2e experiment at Fermilab will search for a neutrino-less muon to electron conversion with a single event sensitivity of $\sim 3E-17$. This is an improvement of four orders of magnitude in sensitivity over the current best limit. Mu2e will indirectly probe a broad class of New Physics models with mass scales up to 10,000 TeV. The Mu2e is currently under the construction with a goal to start taking data in 2025. The first data taking period is aimed to improve the current best limit by a three orders of magnitude. After a two-year shutdown, the data collection will resume to reach the designed Mu2e sensitivity. I will present the status update on the Mu2e fabrication in the preparation for the commissioning and future data taking.

Scientific topic

Future Facilities

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