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The Mu2e Straw Tube Tracking Detector

The Mu2e experiment will search for charged-lepton flavor violating (CLFV) muon to electron conversion. The signal for this process is a monoenergetic electron, and so a precise momentum measurement of the outgoing electron is required to reach the experiment's target sensitivity. This is achieved in Mu2e using a low-mass cylindrical straw tracker operated in vacuum, consisting of 21,000 thin-wall mylar straws held at tension. The tracker design, construction, installation, and commissioning will be presented.

Collaboration / Activity

Mu2e

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Track Classification: Detector R&D and Data Handling