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Alignment of the Mu2e Experiment

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The Mu2e experiment is a physics experiment at Fermilab. It will probe a fundamental symmetry of the Standard Model with the potential to probe physics well beyond the reach of collider experiments such as the LHC. The experiment mainly consists of several large volume, high magnetic field, solenoids: the Production Solenoid, Upstream and Downstream Transport Solenoids, and the Detector Solenoid.

The construction of the Mu2e experiment poses many alignment, metrology, and geodesy challenges. Some of the challenges will be described, along with overview and status of the project, in this presentation. In particular, a novel method for non-contact characterization of vibrations is presented.

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