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The muEDM Experiment Technical Overview

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The muEDM experiment aims to measure the electric dipole moment (EDM) of the muon with unprecedented sensitivity, providing a powerful probe for physics beyond the Standard Model. Utilizing the frozen spin technique, the experiment is designed to isolate EDM-induced spin precession while suppressing magnetic moment ($g-2$) effects. This poster presents a technical overview of the experimental design, focusing on key components currently under development and testing to meet the requirements for the first phase of the experiment.

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