

Status of DeeMe Experiment

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The DeeMe experiment is planned at J-PARC MLF H-Line.

The experiment aims to search for the muon to electron conversion in the nuclear field, which is one of the charged lepton flavor violating processes that are forbidden in the Standard Model and expected to be highly sensitive to search for new physics.

The DeeMe experiment will be the first search with using muonic carbon atoms.

We aim to search with a single event sensitivity of $O(10^{-13})$.

DeeMe spectrometer commissioning and performance tests are ongoing.

In this presentation, we will describe the overview and current status of the DeeMe experiment.

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Session Classification: Poster flash