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## Search for Muon to Electron Conversion in a Muonic Atom

*Saturday 20 April 2024 13:30 (25 minutes)*

Charged Lepton Flavor Violation (CLFV) serves as a crucial probe to search for physics beyond the Standard Model. This talk focuses the physics motivation and the latest developments in the experimental search for muon to electron conversion, in particular the COMET experiment in Japan. Additionally, we review the future prospects of muon to electron conversion experiments, including advancements in experimental techniques. Furthermore, we examine related physics subjects that can be explored through these experiments. Through these investigations, we aim to illuminate the exciting prospects for exploring CLFV and implications in particle physics.

**Author:** KUNO, Yoshitaka (Osaka University and USTC)

**Presenter:** KUNO, Yoshitaka (Osaka University and USTC)

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