

COMET Muon conversion experiment at J-PARC

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COMET is an experiment at J-PARC, Japan, which will search for neutrinoless conversion of muons into electrons in the field of a nucleus ($\mu^- + N \rightarrow e^- + N$); a lepton flavor violating process. Recent progresses in facility and detector development are presented, aiming for the experimental sensitivity of the order of 10^{-15} for Phase-I and 10^{-17} or beyond for Phase-II experiment. A schedule and preparation status to start the Phase-I experiment in 2025 will be discussed.

Primary author: LEE, MyeongJae

Presenter: LEE, MyeongJae

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