

Search for Charged Lepton Flavor Violation with Muons at J-PARC

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We would like to describe an experiment, called COMET, to search for muon to electron conversion in a muonic atom at J-PARC. This process is charged lepton flavor violating. Recently we have taken a staging approach, and COMET Phase-I will be mentioned in more details. This has received supportive endorsement from the J-PARC PAC and J-PARC review committees. We are hoping that COMET Phase-I will start data taking in 2016/17. Also as R&D for COMET, we will mention a highly intense muon source, called MuSIC, which has been constructed at Osaka University. It has demonstrated the pion capture system required to carry out COMET.

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