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COMET muon conversion experiment in 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 (μ+N→e+N); a lepton flavor violating process. The experimental sensitivity goal for this process is of order 10^{-15} for Phase-I and 10^{-17} for Phase-II experiment, which is a factor of 100 to 10,000 improvements correspondingly over existing limits. Recent progress in facility and detector development will be presented. The COMET Phase-I experiment has received stage-II approval by the J-PARC PAC, and the future schedule for the start of data taking in 2018 will also be presented.

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