

# Latest results and current status of the MEG and Mu2e charged lepton flavor violation experiments

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Charged lepton flavor violation processes are ideal probes for new physics due to the suppression of Standard Model backgrounds. In particular,  $\mu^+ \rightarrow e^+\gamma$  decay and neutrinoless  $\mu \rightarrow e$  conversion have been used extensively in the search for new physics by many experiments in the past. Currently, the MEG collaboration is searching for  $\mu^+ \rightarrow e^+\gamma$  with unprecedented precision at the Paul Scherrer Institute in Switzerland, while the Mu2e collaboration is planning an experiment at Fermilab to improve the current upper bound on neutrinoless  $\mu \rightarrow e$  conversion by four orders of magnitude. The latest results of the MEG experiment and the status of the Mu2e experiment will be presented, and a future outlook for both experiments will be given.

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