

## **COMET, an experiment to search for mu-e conversion in a nuclear field.**

*Sunday, 3 September 2017 14:00 (25 minutes)*

Charged lepton flavor violating (CLFV) process is predicted to be out of experimental reach by the Standard Model of elementary particle physics (SM). However, many models of the new physics beyond the SM predicts that it is just below the current experimental limit.

COMET searches for one of the CLFV process, mu-e conversion in a nuclear field, improving the sensitivity by a factor of approximately  $10^2$  for Phase-I and  $10^4$  for Phase-II experiment from a past experiment.

Overview of the experiment and recent status will be presented.

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**Session Classification:** Flavor physics - CKM and beyond

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