



ID de Contribution: 7

Type: **Experimental**

The COMET Experiment: Searching for The μ -e Conversion Signal at J-PARC

mardi 19 août 2025 10:20 (20 minutes)

Charged lepton flavor violating (CLFV) is one of the powerful tools to search for the physics beyond the Standard Model. The COMET experiment will search for the CLFV process $\mu^- + N(Z, A) \rightarrow e^- + N(Z, A)$ in Al with single event sensitivity of 10^{-15} at Phase-I and 10^{-17} at Phase-II, which is two orders and four orders of magnitude respectively improvement on the current upper limited set by SINDRUM-II in Au. The COMET experiment will take place at J-PARC and will start with the low intensity beam in 2026. The updated status of the COMET beam line, superconducting magnets, detectors, data acquisition system and the schedule of the beam will be present in this talk.

Auteur: NGUYEN, Truong (FPT University - Da Nang)

Orateur: NGUYEN, Truong (FPT University - Da Nang)

Classification de Session: Charged Lepton Flavour Physics

Classification de thématique: Lepton Number & Flavour