



Contribution ID: 40

Type: **Parallel talk**

Current Status of the COMET Experiment

Friday, 7 July 2023 14:00 (25 minutes)

The COMET experiment at J-PARC aims to search for charged lepton flavor violation (cLFV) process with $\mu N \rightarrow e N$ decay. The physics goal of the experiment is to reach the single event sensitivity (S.E.S) at 2.6×10^{-17} , which is about four orders of magnitude better than the latest experimental limit. The experiment will produce a high-intensity muon beam with the new bunched slow extraction technique; thus, the properties of the beam remain unknown to us. For a better understanding of the muon beam, we performed the Phase-alpha commissioning by carrying out a low beam intensity run in March 2023. Several detectors were installed downstream of the beamline, and we have got some preliminary results with Phase alpha' s data, which will be shown, together with the current preparation status of the COMET Phase-I experiment, in this talk.

Primary author: Dr XU, Yu (Sun Yat-sen University)

Co-author: TANG, Jian (Sun Yat-Sen University)

Presenter: Dr XU, Yu (Sun Yat-sen University)

Session Classification: Parallel talks 5: Flavour & Precision Physics