



Contribution ID: 50

Type: **Plenary Presentation**

Measurement of muon $g-2$ and EDM at J-PARC

Tuesday, 5 December 2023 09:30 (25 minutes)

Physics of lepton dipole moment is receiving great attentions after the results of the muon $g-2$ experiment at Fermi National Laboratory indicated the measured value of muon $g-2$ was larger than that from the standard model of particle physics. Upcoming experiments as well as theoretical research are supposed to provide crucial information if this anomaly is owing to new physics beyond the standard model of particle physics. A new experiment is under preparation at J-PARC to measure muon $g-2$ as well as EDM with novel muon beam by using muon cooling followed by acceleration with LINAC. In this contribution, status and prospects of the experiment will be presented.

Name of collaboration or list of co-authors

The J-PARC muon $g-2$ /EDM collaboration

Primary author: MIBE, Tsutomu

Presenter: MIBE, Tsutomu

Session Classification: Tuesday morning