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## Status of muon g-2/EDM experiment at J-PARC

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In 2021, the anomalous magnetic moment of the muon,  $a_{\mu} = (g_{\mu}-2)/2$ , was measured at the Fermilab National Accelerator Laboratory (FNAL) with a precision of 0.46 ppm. This measurement result is consistent with the previously value measured more than a decade ago at the Brookhaven National Laboratory (BNL), and the deviation from the Standard Model (SM) prediction has been reported with a significance of 4.2 standard deviations. This suggests the potential existence of new physics beyond the SM, but it needs to be verified through measurements employing different methods. The muon g-2/EDM experiment at J-PARC aims to measure  $a_{\mu}$  and the electric dipole moment (EDM) using a low-emittance muon beam realized through the acceleration of thermal muons and silicon tracking detectors, employing a different approach from the BNL and FNAL experiments. This presentation provides an update on the current status of each experimental component.

Primary author: OKAZAKI, Yuta (KEK)Presenter: OKAZAKI, Yuta (KEK)Session Classification: parallel (room#303)

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