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MEG II

Saturday 20 April 2024 16:00 (25 minutes)

The MEG II Collaboration has presented the first results of its search for flavor-violating muon decay, $\mu \rightarrow e + \gamma$. MEG II, the upgrade of MEG, began taking physics data in late 2021 and continues to accumulate data in its quest to detect lepton-flavor-violating muon decay with a target sensitivity of 6×10^{-14} at 90% confidence level, representing an order of magnitude improvement over MEG. The upgraded detectors offer larger acceptance, increased granularity, and better resolution, enabling them to handle higher background rates compared to the previous MEG detectors. The analysis of the data collected in 2021, which approaches the final MEG result in sensitivity, will be presented.

Presenter: MIHARA, Satoshi (University of Tokyo)

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