

# The latest results of the MEG II experiment

*Thursday 18 July 2024 12:00 (15 minutes)*

The MEG II experiment searches for the lepton flavour violating decay  $\mu^+ \rightarrow e^+ \gamma$  with the world's most intense continuous muon beam at the Paul Scherrer Institute and high-performance detectors, aiming at ten times higher sensitivity than the previous MEG experiment. The result with the first dataset in 2021 was published, and the MEG II experiment took data in 2022 and 2023 corresponding to ten times larger data statistics than in 2021 and a more than twenty-fold increase in data statistics is anticipated by 2026 to reach the sensitivity goal. The latest results from the MEG II experiment will be presented.

## Alternate track

### I read the instructions above

Yes

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**Session Classification:** Quark and Lepton Flavour Physics

**Track Classification:** 05. Quark and Lepton Flavour Physics