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## The final result of the MEG experiment and the status of the MEG II experiment

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The MEG experiment, which searches for a lepton flavor violating muon decay,  $\mu^+ \rightarrow e^+\gamma$ , to explore new physics like SUSY-GUT, started physics data taking in 2008 at Paul Scherrer Institute in Switzerland, and finished it in 2013. Its innovative detector system enabled orders of magnitude better sensitivity than previous experiments. The analysis result of the full dataset of the MEG experiment is presented here.

In order to improve the sensitivity, it is necessary to improve resolutions and detection efficiencies of all the detector components, and to increase the muon beam intensity. The construction of the MEG II experiment is now in progress, and we will start engineering run in 2017, aiming at one order of magnitude better sensitivity than the MEG experiment. The status of the MEG II experiment is also discussed.

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