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Performance of the MEG detector to search for $\mu^+ \rightarrow e^+ \gamma$ decays at PSI

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The MEG experiment, which searches for a rare muon decay, $\mu \rightarrow e \gamma$, to explore supersymmetric grand unification, has started physics run since 2008 at Paul Scherrer Institute, Switzerland. Its innovative detector system, which consists of a 900 liter liquid xenon scintillation photon detector and a positron spectrometer with a superconducting magnet, drift chamber, and timing counter, enables orders of magnitude better sensitivity than previous experiments. The detector performance of the MEG experiment mainly at physics run in 2009 is described here in detail together with the detector calibration and monitoring methods.

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