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Positron spectrometer of MEG experiment at PSI

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A new type of positron spectrometer for the MEG experiment has been developed at the Paul Scherrer Institute (PSI). The main goal of the experiment is a search for a lepton flavor violating decay $mu + \rightarrow e+$ gamma with a sensitivity of 10^{**} -13 in branching ratio in order to check the predictions of the supersymmetric extensions of the standard model. Measurements of the reactions beyond the standard model require specially designed detectors. The MEG positron spectrometer consists of a special superconducting solenoidal magnet and an ultimate low-mass drift chamber system. Recently, few commissioning experiments were performed. The spectrometer design and the first results of the commissioning runs will be presented.

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