

# 30th International Symposium on Lepton Photon Interactions at High Energies



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## Status of the MEG II experiment at PSI

*Tuesday, January 11, 2022 5:10 PM (20 minutes)*

The observation of charged Lepton Flavour Violating (cLFV) processes would be a definitive signature of physics beyond the Standard Model.

The phase I one of the MEG experiment established the best upper limit on the branching ratio of one of the cLFV golden channels,  $\mu \rightarrow e\gamma$ :  $BR(\mu \rightarrow e\gamma) < 4.2 \times 10^{-13}$  (@90% Confidence Level).

This limit will be improved by about one order of magnitude by the phase II of the experiment, which is supposed to run for few years since 2022, taking advantage of a higher beam rate and an upgraded detector. In this talk, starting from MEG I experimental setup and results I will described MEG II improvements and expected sensitivity.

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**Session Classification:** Quark and charged lepton flavour

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