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## The MEG liquid xenon calorimeter

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### Summary

The MEG experiment at PSI, starting data taking this year, searches for the muon decay into one electron and one photon with a sensitivity to branching ratios around  $10^{-13}$ , two orders of magnitude better with respect to the present best experimental limit. To reach this goal a new kind of large acceptance, large mass (roughly 2.2 Tons) calorimeter based on liquid xenon scintillation light was developed. The several calibration techniques developed to monitor the calorimeter behaviour during all the experiment data taking will be shown together with the experimental resolutions obtained.

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**Classifica Sessioni:** Operating Calorimeters

**Classificazione della track:** Operating Calorimeters