



CERN Joint EP/PP Seminars

SPEAKER: Alessandro Baldini (INFN Sezione di Pisa)

TITLE: **First results from the MEG/RE12 experiment at PSI: search for the $\mu^+ \rightarrow e^+ + \gamma$ decay as a sensitive test of supersymmetric-GUT theories**

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PLACE: Main Auditorium

ABSTRACT

The $\mu \rightarrow e\gamma$ decay, which is absent in the Standard Model, is instead foreseen to occur in supersymmetric grand unified theories (SUSY-GUT) with a branching ratio which might be detectable by the MEG/RE12 experiment. In this seminar, after illustrating the SUSY-GUT predictions for the $\mu \rightarrow e\gamma$ decay rate and the connection with neutrino oscillations, results from a first period of data taking in 2008 will be shown. The current status of the experiment and the foreseen experimental sensitivity to the $\mu \rightarrow e\gamma$ decay will finally be presented.