

$\mu^+ \rightarrow e^+ \gamma$ measurement with polarized μ^+ beam

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After MEG discovers $\mu^+ \rightarrow e^+ \gamma$, the experiment can advance to the next stage, namely, from “discovery” to “measurement”. If MEG succeeds to observe enough number of $\mu^+ \rightarrow e^+ \gamma$ events, the e^+ s angular distribution with respect to the muon spin can be measured by the MEG detector with a polarized muon beam. This measurement would discriminate among different SUSY-GUT extensions to the standard model.