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A New Search for the Decay $\mu \rightarrow eee$

A letter of intent to search for the lepton flavor violating decay process $\mu \rightarrow eee$ with a sensitivity of $B(\mu \rightarrow eee) < 10^{-16}$ at 95% CL was recently submitted to PSI by the Mu3e collaboration. The physics motivation and the technological challenges of such an experiment, together with the importance of the installation of a new high intensity muon source are discussed.

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