Contribution ID: **60** Type: **Oral**

A novel mu to 3e experiment

Thursday, 14 October 2010 12:20 (20 minutes)

Design studies for an experiment searching for the lepton flavour violating decay mu to 3e are presented. The detector concept is based on thin layers of silicon sensors with fast readout.
The aim is to reach an experimental sensitivity of 1e-16 for this process, which is an improvement by factor 10000 compared to the existing limit.

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Session Classification: Session Th - 2

Track Classification: Low energy precision tests of the Standard Model