



Contribution ID: 97

Type: **not specified**

Test of lepton flavour universality in kaon leptonic decays at CERN NA62 experiment

Friday, 29 April 2011 17:05 (10 minutes)

The ratio of charged kaon leptonic decay rates $BR(K \rightarrow e \nu)/BR(K \rightarrow \mu \nu)$ is suppressed and predicted to excellent precision within the Standard Model. A precision test of lepton flavour universality by measurement of this ratio at the NA62 experiment at CERN, based on a dedicated sample collected in 2007, is reported. A record accuracy of 0.5% has been achieved. This result constrains the parameter space of new physics models with extended Higgs sector (including supersymmetry).

Presenter: Ms ROMANO, Angela (University of Birmingham)

Session Classification: Sessione Dottorandi - III

Track Classification: Dottorandi e Posters