

BEACH 2010 - IX International Conference on Hyperons, Charm and Beauty Hadrons



Contribution ID: 2

Type: **not specified**

Measurement of $BR(K \rightarrow e \nu)/BR(K \rightarrow \mu \nu)$ in NA62

Measurement of the helicity suppressed ratio of charged kaon leptonic decay rates $BR(K \rightarrow e \nu)/BR(K \rightarrow \mu \nu)$ has long been considered as an excellent test of lepton universality and the Standard Model (SM) description of weak interactions. It was realised recently that the suppression of the SM contribution might enhance the sensitivity to SUSY-induced effects to an experimentally accessible level. The NA62 experiment at the CERN SPS has collected a record number of over 10^5 $K \rightarrow e \nu$ decays during a dedicated run in 2007, aiming at achieving 0.5% precision. Experimental strategy, details of the analysis and preliminary results will be discussed.

Primary author: Dr LAZZERONI, Cristina Lazzeroni (University of Birmingham)

Presenter: Dr LAZZERONI, Cristina Lazzeroni (University of Birmingham)