



ID contributo: 3

Tipo: oral

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

martedì 12 ottobre 2010 14:05 (25 minuti)

Measurement of the helicity suppressed ratio of charged kaon leptonic decay rates $\text{BR}(K \rightarrow e \nu)/\text{BR}(K \rightarrow \mu \nu)$ 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 are discussed.

Autore principale: SERGI, Antonino (CERN)

Relatore: SERGI, Antonino (CERN)

Classifica Sessioni: Kaon Physics

Classificazione della track: Kaons