

Searches for lepton flavour and lepton number violation in K^+ decays

Tuesday 27 August 2019 16:25 (25 minutes)

The NA62 experiment at the CERN SPS is designed to measure the branching ratio of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay, very precisely predicted below $10 \exp[-10]$ by the SM. NA62 took data in 2016-2018 and collected a large sample of charged kaon decays into final states with multiple charged particles. The sensitivity to a range of lepton flavour and lepton number violating kaon decays provided by this data set improves over the previously reported measurements. Results from the searches for these processes with a partial NA62 data sample are presented.

Working Group

WG4 : Muon Physics

Author: BAEVA, Aigul (Joint Institute for Nuclear Research (RU))

Co-author: CENCI, Patrizia (INFN Perugia (IT))

Presenter: BAEVA, Aigul (Joint Institute for Nuclear Research (RU))

Session Classification: Working Group 4