



Contribution ID: 177

Type: **Oral presentation**

Detailed study of the K_{e4} decay mode properties

Tuesday 29 April 2014 17:10 (20 minutes)

The NA48/2 Collaboration at CERN has accumulated unprecedented statistics of rare kaon decays in the K_{e4} modes $K_{e4}(\pm)$ to $\pi^+ \pi^- e \nu$ and $K_{e4}(00)$ to $\pi^0 \pi^0 e \nu$ with \sim one percent background contamination. The detailed study of form factors is sensitive to small isospin symmetry breaking effects. This brings new inputs to low energy QCD description and crucial tests of predictions from Chiral Perturbation Theory and lattice QCD calculations.

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Session Classification: WG4: QCD and Hadronic Final States

Track Classification: WG4: QCD and Hadronic Final States