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Recent QCD-related results from Kaon physics at CERN (NA48 and NA62)

Friday 12 May 2017 09:00 (30 minutes)

The NA48/2 experiment presents a final result of the charged kaon semileptonic decays form factors measurement based on 4.28 million K_{e3}^{\pm} and 2.91 million $K_{\mu3}^{\pm}$ selected decays collected in 2004. The result is competitive with other measurements in $K_{\mu3}^{\pm}$ mode and has a smallest uncertainty for K_{e3}^{\pm} , that leads to the most precise combined K_{l3}^{\pm} result and allows to reduce the form factor uncertainty of $|V_{US}|$. The NA62 experiment at the CERN SPS collected a large sample of charged kaon decays with a highly efficient trigger for decays into electrons in 2007. The kaon beam represents a source of tagged neutral pion decays in vacuum. A preliminary result of a new measurement of the electromagnetic transition form factor slope of the neutral pion in the time-like momentum region from 1.05 million fully reconstructed π^0 Dalitz decays is presented in the second part of this report.

Author: Mr SHKAROVSKIY, Sergey (Joint Institute for Nuclear Research (RU))

Presenter: Mr SHKAROVSKIY, Sergey (Joint Institute for Nuclear Research (RU))

Session Classification: Friday Morning (20min talks + 10min discussions)