

## Charged KK femtoscopy correlations from 7 TeV pp collisions measured by ALICE collaboration.

Charged KK femtoscopy correlations from 7 TeV pp collisions measured by ALICE collaboration.

L. Malinina (SINP MSU-JINR) for the ALICE collaboration

We report on the results of charged kaon femtoscopy analysis of the 7 TeV pp collisions at the LHC in the ALICE experiment. KK correlation functions are constructed in 3 multiplicity and 4 kt bins. The KK source parameters are extracted by fitting the correlation functions with Gaussian, describing the source, multiplied by a polynomial background function with free coefficients (baseline). The contributions to the systematic errors from the baseline choice have been studied. The weak increase of the KK  $R_{inv}$  with multiplicity and some evidence on the decrease with kt was observed in kt range (0.2-0.8) GeV/c. For the kt dependence, the charged kaons are found to be complimentary to the neutral ones in their coverage of a larger range in kt (0.2-2.0) GeV/c and a decrease in the  $R_{inv}$  is observed for increasing kt as it is also seen in identical two-pion correlations in these collisions.

**Primary author:** Dr MALININA, Ludmila (Joint Inst. for Nuclear Research (JINR)-Unknown-Unknown)

**Co-author:** FOR THE ALICE COLLABORATION, ALICE (CERN)

**Presenter:** Dr MALININA, Ludmila (Joint Inst. for Nuclear Research (JINR)-Unknown-Unknown)

**Track Classification:** Correlations and fluctuations