WPCF 2024 - 17th Workshop on Particle Correlations and Femtoscopy



ID de Contribution: 36

Type: Non spécifié

Angular correlations at LHCb.

vendredi 8 novembre 2024 09:00 (25 minutes)

The LHCb experiment was originally designed to perform flavour physics observations, however over the years proved to be also an excellent general purpose detector with unique forward acceptance of pseudorapidity from 2.0 to 5.0. One of the areas of interest are the two-particle angular correlations studied in proton-lead collisions at a nucleon-nucleon centre-of-mass energy of $\sqrt{S_{NN}} = 5$ TeV. Data was collected in 2013 with two opposing beam configurations, allowing analysis in the direction of proton and in the direction of led ion. This is the first time that a long-range correlations on the near side in proton-lead collisions were measured in the forward region, extending previous observations in the central region.

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