



Anisotropic azimuthal correlations of identified hadrons in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV

Tuesday 11 July 2017 17:40 (20 minutes)

Measurements of azimuthal correlations can be used to probe the anisotropy of produced particles, and are therefore sensitive probes of the initial conditions of the collision.

Moreover, the measurement of anisotropy in p-Pb collisions may provide additional insights into the possible collectivity

in this small system originally motivated by the measurements of multi-particle azimuthal correlations.

In this contribution, we present the recent results on the azimuthal anisotropy coefficients v_n of identified hadrons, namely π , K, p, and also the K_S^0 meson and Λ baryon which carry strangeness, in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV recorded with the ALICE experiment at the LHC.

The phenomena of mass ordering and number of constituent quark scaling will be addressed.

In addition, the comparison of the experimental measurements to various model calculations will be discussed.

List of tracks

Small systems (pA)

Primary author: PACIK, Vojtech (Niels Bohr Institute (DK))

Presenter: PACIK, Vojtech (Niels Bohr Institute (DK))

Session Classification: Poster session

Track Classification: Small systems (pA)