



XXIV QUARK MATTER DARMSTADT 2014

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Searches for azimuthal flow in pp, p-Pb and Pb-Pb collisions from ALICE

Monday 19 May 2014 16:30 (20 minutes)

A key question facing the heavy-ion physics community is whether or not collective behavior develops in elementary collisions. We will utilize a variety of techniques designed to obtain elliptic and triangular flow coefficients (v_2 and v_3) on data from pp $\sqrt{s} = 7$ TeV and p-Pb $\sqrt{s_{NN}} = 5.02$ TeV collisions. We will report new measurements of second, fourth, and sixth particle flow cumulants for charged hadrons in p-Pb collisions as a function of charged hadron multiplicity, and discuss their response to few and global azimuthal correlations. New results will also be shown for Pb-Pb $\sqrt{s_{NN}} = 2.76$ TeV, as they provide a crucial reference for such studies. Finally, we will report new measurements of $v_2\{SP\}$ for charged hadrons and identified particles for pp and p-Pb collisions. Investigations into mass ordering and comparisons to measurements of $v_2\{SP\}$ from Pb-Pb collisions will be carried out.

On behalf of collaboration:

ALICE

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Session Classification: Collective dynamics

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