

Quark Matter 2019 - the XXVIIIth International Conference on Ultra-relativistic Nucleus-Nucleus Collisions



Contribution ID: 268

Type: **Oral Presentation**

Event shape dependence of anisotropic flow for inclusive and identified hadrons in Pb-Pb and Xe-Xe collisions with ALICE

Tuesday 5 November 2019 16:20 (20 minutes)

Anisotropic flow provides valuable information on the key properties and the evolution of the matter created in heavy-ion collisions. In this talk, we present the elliptic and triangular flow of inclusive and identified particles measured in Xe-Xe collisions at $\sqrt{s_{NN}} = 5.44$ TeV recorded by the ALICE detector. The measurements are reported for a wide range of particle transverse momenta, p_T , within the pseudo-rapidity region $|\eta| < 0.8$. Strong constraints on the initial conditions of a collision and hydrodynamic medium response are placed comparing these results to those from Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. In addition, the flow harmonics of inclusive and identified particles are studied using Event Shape Engineering technique in Pb-Pb collisions. The effect of the event-shape selection is within uncertainties independent of particle species up to $p_T \sim 8$ GeV/ c and the origin of this observation is discussed.

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Session Classification: Parallel Session - Initial state I

Track Classification: Initial state and approach to equilibrium