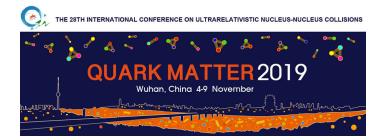
Quark Matter 2019 - the XXVIIIth International Conference on Ultra-relativistic Nucleus-Nucleus Collisions



Contribution ID: 151

Type: Poster Presentation

Measurement of the Azimuthal Anisotropy of Charged Particle Production in Xe+Xe Collisions at $\sqrt{s_{NN}}$ =5.44 TeV with the ATLAS Detector

Monday 4 November 2019 17:40 (20 minutes)

ATLAS measurements of flow harmonics (v_n) in Xe+Xe collisions are presented. The measurements are performed using two-particle correlations, multi-particle cumulants and scalar product methods. The measurements are also performed using non-flow subtraction techniques – recently developed for measurements in proton-nucleus and proton-proton collisions – to improve the understanding of flow in peripheral collisions. The non-flow removal is shown to have a significant impact on the v_n measurements in peripheral events. By comparing to flow measurements in Pb+Pb collisions, the effects of geometric fluctuations and of viscous effects, both of which are stronger in the smaller Xe+Xe system, are demonstrated.

Primary author: ATLAS COLLABORATION Presenter: ATLAS COLLABORATION Session Classification: Poster Session

Track Classification: Collective dynamics and final state interaction