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

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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.

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