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Measurements of longitudinal flow decorrelations in Xe+Xe collisions with the ATLAS detector

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Measurement of longitudinal flow decorrelations in Xe+Xe collisions involving two- and four-particle correlations for elliptic, triangular and quadrangular flow are presented. The strength of the decorrelation are found to be different from that in Pb+Pb for either the same centrality or N_{part} . The four-particle decorrelation is found to not factorize as product of two-particle decorrelations. The ability of such measurement to distinguish between different models of initial geometry and in reducing the uncertainty in determining the effective shear-viscosity to entropy density of the QGP are demonstrated.

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