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A small drop of Quark-Gluon-Plasma

A prominent method to study the initial state properties of quark-gluon-plasma (QGP) are by anisotropic flow due to the collectivity of the system. The measurements of flow by the cumulant method in small collision system may provide more knowledge to the multiplicity dependence of $c_2\{4\}$ and possibly the creation of the smallest drop of QGP. By comparing experimental data from ATLAS and simulated data (without flow phenomena) of proton-proton collisions at 13 TeV it is evident that there are observed collectivity of unknown origin in the experimental data from ATLAS. If this collectivity should be due to the presence of QGP cannot be drawn from this research alone.

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