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## Recent ATLAS measurements of azimuthal anisotropies in pp and p+Pb collisions

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## Content

The azimuthal anisotropies of particle yields observed in relativistic heavy-ion collisions have been traditionally considered as a strong evidence of the formation on a deconfined quark-gluon plasma produced in these collisions. However multiple recent measurements from the ATLAS Collaboration in pp and p+Pb systems show similar features as those observed in A+A collisions, indicating the possibility of the production of such a deconfined medium in smaller collision systems. This talk presents a comprehensive summary of these ATLAS measurements in pp collisions at 2.76, 5.02 and 13°TeV and in p+Pb collisions at 5.02 and 8.16 TeV. It includes measurements of two-particle hadron-hadron and muon-hadron correlations in  $\Delta \phi$  and  $\Delta \eta$ , with a template fitting procedure used to subtract the dijet contributions. Measurements of multi-particle cumulants  $c_n \{2 - 8\}$  are also presented. The cumulant measurements from a new sub-event cumulant method that suppresses the contribution of non-flow effects are presented.

## Session

Collectivity in high energy collisions

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