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## ATLAS and CMS results on collectivity in small-systems (20+5)

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This talk presents an overview of recent measurements from the ATLAS and CMS collaborations that study collective behavior in p+Pb and pp collisions. For p+Pb collisions, measurements of collective behavior involving strange, charm and bottom hadrons are presented. Measurements of elliptic anisotropy in Ultra-peripheral p+Pb collisions, which are

in fact  $p+\gamma$  collisions, are presented and compared to corresponding measurements in hadronic p+Pb collisions. Several measurements that investigate the long-range correlations observed in pp collisions, commonly called the "ridge", are presented. A study of the dependence of the ridge on the presence of a hard process in the event, namely a Z-boson, is presented, and its implications are discussed. Studies of the long-range correlations in pp collisions involving heavy-flavor hadrons are presented. Finally, correlation measurements with an active rejection of particles associated with semi-hard processes, such as low-pT jets, are also discussed. These measurements can give further insight into the origin of the pp ridge.

Presenter: MOHAPATRA, Soumya (Columbia University)

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