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Multi-particle azimuthal correlations in p+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector

Tuesday, 29 September 2015 16:30 (2 hours)

Measurements of the ridge correlations and associated first five azimuthal harmonics (v_1 - v_5) in 5.02 TeV p+Pb collisions using the two-particle correlations (2PC) method are presented. The v_n results are shown as a function of p_T , η and event activity. The non-zero double-ridge structures and v_n are found to exist up to p_T of ~ 10 GeV. In addition, the status of high statistics measurements of v_2 (p_T) in p+Pb and in peripheral 2.76 TeV Pb+Pb collisions obtained from multi-particle cumulant analysis is reported. A comparison between p+Pb and Pb+Pb results at matching event activity is performed, showing similarities of the two collision systems.

On behalf of collaboration:

ATLAS

Session Classification: Poster Session

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