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Azimuthal correlations and mixed higher order flow harmonics from CMS at the LHC

Thursday 11 May 2017 17:30 (30 minutes)

Two-particle correlations measurements of v_n ($n=2-4$) in 8.16 TeV pPb collisions, and event-by-event correlations of different v_n measured using symmetric cumulants in 13 TeV pp, 5.02 and 8.16 TeV pPb and 5.02 TeV PbPb collisions at the LHC. These new results give important insights to the origin of collectivity observed in small collision systems. Additionally, using the scalar product method and the method of two-particle correlations, the mixed higher order flow harmonics and extracted nonlinear response coefficients of charged particles are measured for the first time as a function of p_T and centrality in 2.76 and 5.02 TeV PbPb collisions. The obtained results are compared with different theoretical predictions.

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Session Classification: Thursday Afternoon (20min talks + 10min discussions)