



Contribution ID: 38

Type: **not specified**

The three point asymmetric cumulants in high multiplicity pp collisions (15+3)

Tuesday, 12 October 2021 11:40 (15 minutes)

We study the influence of quantum interference and colour flow on three point correlations described by asymmetric cumulants in high multiplicity events in pp collisions. We use the model previously developed for the study of the collectivity in symmetric cumulants. We show that the resulting three point asymmetric cumulant is in qualitative agreement with the experimental data for the same parameters of the model as it was with the symmetric cumulants. Our results show that the initial state correlations must play a major role and may be even dominant in the explanation of the correlations in high multiplicity pp events.

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Session Classification: WG3

Track Classification: WG3: High Multiplicities (small systems)