## Measurement of long-range two-particle correlations with ALICE

Tuesday, 17 August 2021 16:00 (15 minutes)

Measurements of long-range two-particle correlations have long provided critical insights into the properties of the matter created in heavy-ion collisions.

I will present results on long-range two-particle correlations for different charged particles multiplicities in pp at  $\sqrt{s} = 13$  TeV and in p-Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV.

These measurements utilize the Forward Multiplicity Detector (FMD), which allows for unprecedented  $\Delta \eta$  ranges to be explored (up to  $\Delta \eta \sim 8$ ).

We will compare such measurements to predictions from the relativistic hydro model calculation that supposes the QGP and Monte Carlo generators, which helps us to understand the contribution from non-QGP-like processes in an unexplored kinematic regime.

## **Experimental nuclear physics**

**Theoretical nuclear physics** 

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