

## **Two-particle angular correlations in pp and p-Pb collisions at LHC energies from a multi-phase transport mode**

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We apply a multi-phase transport (AMPT) model to study two-particle angular correlations in pp collisions at  $\sqrt{s} = 7$  TeV. Besides being able to describe the angular correlation functions of meson-meson pairs, a large improvement for the angular correlations of baryon-baryon and antibaryon-antibaryon is achieved. We further find that the AMPT model with new quark coalescence provides an even better description on the anti-correlation feature of baryon-baryon correlations observed in the experiments. We also extend the study to p-Pb collisions at  $\sqrt{s} = 5.02$  TeV and obtained similar results. These results help us better understand the particle production mechanism in pp and p-Pb collisions at LHC energies.

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