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Quarkonia collectivity in proton-proton and Pb-Pb collisions with ALICE

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Quarkonium production is one of the golden probes to study the quark–gluon plasma (QGP). Among many observables, the measurement of azimuthal anisotropies in their production sheds light on the collective behavior of particles in a strongly interacting medium. In particular, the magnitude of the elliptic flow measured at the LHC is interpreted as a signature of the charm-quark thermalization in the QGP, supporting the scenario of charmonium (re)generation at low p_{T}. Interestingly, the measurement of collective-like effects in high-multiplicity pp and p–Pb collisions provides new insights on the evolution of QGP-related observables going from small to large collision systems. In this contribution the measurement of the flow coefficients in pp and Pb–Pb collisions carried out by the ALICE collaboration will be presented. In addition, the status of further related measurements, possible in Run 3 thanks to the upgraded detector, will be discussed.

Category

Experiment

Collaboration

ALICE

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