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Type: **Talk**

Recent results of quarkonia elliptic flow measured by the ALICE Collaboration

Thursday 29 August 2024 12:20 (20 minutes)

Due to the perturbative and non-perturbative regimes involved, the quarkonia (i.e., bound states of a heavy charm or bottom quark and its antiquark) production in hadronic collisions provides a unique testing ground for understanding quantum chromodynamics (QCD). In addition, quarkonia represent an important tool to investigate the properties of the strongly interacting medium produced in heavy-ion collisions at the LHC centre-of-mass energies. In particular, the study of charmonia collective behavior provides an important indication of the charm quark thermalization in the quark-gluon plasma (QGP). Recent results of J/ψ elliptic flow in Pb–Pb, p–Pb, and high-multiplicity pp collisions measured by the ALICE Collaboration will be presented. Moreover, the ALICE upgrade during LHC Run 3 allows the collection of significantly larger data samples, which provides an opportunity to measure the physical observables further precisely.

Internet talk

Yes

Is this an abstract from experimental collaboration?

Yes

Name of experiment and experimental site

ALICE

Is the speaker for that presentation defined?

Yes

Details

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Session Classification: Heavy Ion Collisions and Critical Phenomena

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