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Quarkonium anisotropic flow in Pb-Pb collisions with ALICE

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ALICE experiment at LHC studies through ultra-relativistic heavy ion collisions, a deconfined state of matter, the Quark Gluon Plasma (QGP). This state raises many questions about mechanisms of strong interaction and the cohesion of matter. Moreover, QGP is an extremely hot and dense state that behaves more like a nearly ideal, strongly interacting fluid and it can represent the universe at the first microseconds. According to Quantum Chromodynamics (QCD) the theory that describes strong interaction, heavy quark pair (quarkonium) represent an ideal probe to study such a state. Thus, the measurement of quarkonium azimuthal anisotropy in the particle distributions (related to the anisotropic flow), at an energy in the center of mass at 5.02 TeV, will allow to constrain the transport models describing the quarkonium production and the macroscopic properties of the QGP.

Auteur principal: CARON, Robin (Université Paris-Saclay (FR))

Orateur: CARON, Robin (Université Paris-Saclay (FR))

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