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Quarkonium elliptic flow in Pb-Pb collisions at 5.02 TeV

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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 pairs represent an ideal probe to study this state. Thus, the measurement of azimuthal anisotropy in particles distribution called elliptic flow, for heavy resonances at an energy in the center of mass at 5.02 TeV, will allow to constrain the models describing the QGP.

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