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Type: Poster

J/psi polarization in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ALICE at the LHC

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Polarization is a key observable to determine the quarkonium production mechanism in hadronic elementary collisions. Its very small value measured at the LHC has been challenging the commonly-used theoretical models and it still represents a major standing issue in the field.

On the other hand, phenomenological studies have shown that primordial quarkonium in AA interaction can be polarized by the strong magnetic field generated by the two colliding nuclei, while re-combined quarkonium is expected to be completely unpolarized.

We present a feasibility study for the p_T -differential measurement of J/psi polarization in $\sqrt{s_{NN}} = 5.02$ TeV Pb-Pb collisions at the LHC. The analysis strategy and technique are discussed and first preliminary results are presented.

Content type

Experiment

Collaboration

ALICE

Centralised submission by Collaboration

Presenter name already specified

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