

Rotational effect of J/ψ particle dissociation

ALICE collaboration observed the spin polarization of J/ψ particles with respect to the event plane, finding less particles in the spin zero states. A possible explanation is the spin dependent dissociations of prompt J/ψ in the quark-gluon plasma. we consider the effect of vorticity on the dissociation rate in the dominant inelastic scattering process. Using quark and gluon propagators from the quantum kinetic theories, we find correction to dissociation first order in vorticity.

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