

Charm quark energy loss and its consequences

Thursday, 18 February 2016 17:10 (20 minutes)

Charm quarks are mostly produced in the pre-equilibrium phase of relativistic heavy ion collisions and primarily due to prompt gluon fusion and interactions among high energy partons. The produced charm quarks undergo modification while moving through quark gluon plasma. Consequently studies of charm spectra via its mesonic channels and their decay product give information on the medium properties. We present results on the modification of heavy quark energy and momentum spectra due to hot and dense medium (QGP) at LHC collider energies

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Session Classification: Session 19