

Seminar

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Production of charm quarks in relativistic heavy ion collisions using parton cascade model

We discuss extension of parton cascade model proposed earlier to include production and propagation of charm quarks in relativistic heavy ion collision at RHIC energies. We find additional production of charms having low transverse momenta due to multiple scattering among partons and suppressed production of charm quarks having large transverse momenta due to collisions and radiation of gluons. Applying the treatment to pp collisions at LHC energies, we find a large production of charm quarks and strangeness equilibration in events with large multiplicity.

Tuesday, 19.12.2017, 14:15 Uhr

Place: D6-135