erence on Physics ark Gluon Plasma

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HEAVY QUARKS AT RHIC AND LHC

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Content :

We study the production of heavy quarks, charm at BNL-RHIC (sqrt(s)=200GeV/nucleon) and CERN-LHC (sqrt(s) =5.5 TeV/nucleon) and bottom at CERN-LHC from heavy ions colliding at relativistic energies. We consider initial fusion of gluons(and quark- anti-quark annihilation), pre-thermal parton interactions and interaction of quarks and gluons in thermalized quark gluon plasma. We also consider free-streaming partons as the other extreme and compare the results with those from a thermalized plasma of partons. We also consider passage of high P_{T} partons through thermalized quark-gluon plasma and production of heavy quarks as the consequence of such interaction. It is suggested that the charm production from these various interactions may have important implications for the study of back-toback correlation of heavy quarks, as well as nuclear modification factor, R_{AA}.

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