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Heavy Quark diffusion and dilepton production in HIC

We study the dynamics of charm quarks in the partonic medium and its implication for the di-electron spectra in high-energy heavy ion collisions. The charm quarks traversing a thermal medium are simulated by the relativistic Langevin equation for elastic scattering of charm quarks by thermal partons in an expanding fireball. The di-electron invariant mass spectra are computed in the most central collisions and are compared to the STAR data

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