

Description of heavy mesons in the quark gluon plasma using holography

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The AdS/CFT correspondence led to the development of phenomenological models that describe the behavior of hadrons in the non-perturbative QCD regime. In particular, so-called holographic models make it possible to describe hadrons in a thermal medium, such as the plasma of quarks and gluons formed in heavy ion collisions. In this seminar, we will discuss how the spectral functions of bottomonium and charmonium quasi-states, obtained holographically, show the effects of temperature, density and of the presence of magnetic fields on the thermal dissociation in the medium. In particular, we will present recent results on how the rotations of the plasma rotation, which occurs in non central heavy ion collisions, affects the deconfinement temperature of the medium and also the dissociation temperature of heavy mesons inside it.