

Effective models for heavy mesons in a plasma inspired by gauge gravity duality

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The advent of the AdS/CFT correspondence led to the development of phenomenological models aimed at describing the behavior of hadrons in non-perturbative regimes of QCD. In particular, the so-called holographic models allow the description of the behavior of quarkonium in a thermal medium, such as the plasma of quarks and gluons formed in heavy ions collisions. We will discuss how quasi-states of bottomonium and charmonium inside a thermal medium can be described holographically in such a way that one can study the effects of temperature, density and presence of magnetic fields on dissociation in the thermal medium. We will also present a recent result on how rotation, which occurs when ion collisions are not frontal, affects the deconfinement temperature.

Auteur principal: Prof. BRAGA, Nelson (Universidade Federal do Rio de Janeiro)

Orateur: Prof. BRAGA, Nelson (Universidade Federal do Rio de Janeiro)

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