

Holography and heavy ion collisions: promises and challenges

Tuesday, 29 May 2012 12:10 (25 minutes)

I review the application of the AdS/CFT correspondence to heavy ion collisions. The talk will first review and critique available holographic calculations of energy loss, with an emphasis on the parametric similarities and differences between perturbation theory and the strongly coupled theory. Then the talk will summarize the results of current AdS/CFT motivated energy loss models and their domain of applicability. In addition, several other results from the AdS/CFT correspondence of relevance to heavy ion collisions will be discussed. For example, recent results on the (strikingly fast) thermalization of holographic plasmas will be reviewed.

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