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QCD in heavy ion collisions

Sunday, 27 September 2015 13:30 (50 minutes)

I will make an overview of the theoretical side of the beam-energy scan program in the context of the QCD phase diagram. I will clarify what is established about hot and dense matter of QCD (especially about the chemical-freezeout curve) and what still awaits further investigations including the modern lattice-QCD simulations. I also briefly mention on the initial dynamics of the heavy-ion collision and the theoretical foundation and some ongoing experimental efforts to see chiral-anomaly related phenomena.

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