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Type: **Invited Lecture**

Phase structure of QCD at high temperature and high density by numerical simulations of lattice QCD

Friday, 17 June 2016 11:00 (1h 30m)

I will talk about the phase transition of quantum chromodynamics (QCD) at high temperature and high density. The color confinement and the chiral symmetry breaking are the most important properties of the strong interaction and these properties vary depending on temperature and density. The numerical simulation of lattice QCD is a powerful tool to study the strong interaction. In this lecture, I will explain the basic formulation of lattice QCD and review recent progress of lattice QCD.

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