

Exploration of Hot QCD Matter: The Next Decade

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Since the year 2000, the Relativistic Heavy Ion Collider has explored the properties of hot QCD matter in an energy regime where hard QCD probes and ab-initio calculations are available. The results from RHIC have led to a dramatic revision of our notion of the quark-gluon plasma as a strongly coupled, nearly inviscid liquid highly opaque to probes carrying open color, i.e. quarks and gluons). However, many details of this new picture remain fuzzy. My lecture will give a preview of the opportunities opened up by the LHC, the RHIC upgrades, and theoretical advances during the next decade to answer some of the many remaining questions about the physics of hot QCD matter.

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