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Probing hot QCD matter in ultrarelativistic heavy-ion collisions

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In high-energy collisions of heavy nuclei, the resulting state of matter attains such high temperatures and energy densities that quarks and gluons are no longer confined into hadrons. Known as the quark-gluon plasma (QGP), this matter occupies the high-temperature and high-density regime of the phase diagram of quantum chromodynamics (QCD). By probing the properties of the QGP, we are able to study QCD and the strong nuclear force in the extreme high temperature limit. In this talk, a selection of measurements from the Large Hadron Collider (LHC) and the Relativistic Heavy Ion Collider (RHIC) will be presented which give insight into the space-time evolution of the QGP and its thermodynamical and hadrochemical properties.

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