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Recent experimental results on QGP formation and properties from the LHC

Thursday 22 August 2024 09:30 (30 minutes)

Relativistic heavy-ion collisions at the LHC create the quark–gluon plasma (QGP); a state of matter where quarks and gluons are not confined inside hadrons. In this review talk I will show what measurements of key observables in Pb-Pb, Xe-Xe, p-Pb and pp collisions at the LHC experiments have taught us about the hottest fluid ever studied in the laboratory and what this tells us about the enigmatic QGP properties. I will focus on the road ahead and present what the current key open questions are and how we plan to address these in the coming decade using precise measurements of rare probes such as heavy-quarks and di-leptons.

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