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Recent Highlights from the ALICE Experiment at LHC

Abstract

The ALICE experiment at the LHC is designed to study the properties of the quark–gluon plasma (QGP) formed in relativistic heavy-ion collisions. The QGP is a hot, dense state of QCD matter in which quarks and gluons are no longer confined within hadrons but can propagate over distances larger than the hadronic scale. ALICE has collected data across a variety of collision systems, including pp, p–Pb, Pb–Pb, OO, and Xe–Xe, enabling a broad physics program to probe the properties of QCD matter under extreme conditions.

In this talk, we will present recent highlights from the ALICE Collaboration and outline its future plans.