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ALICE Highlights and Upgrade Plans

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A Large Ion Collider Experiment (ALICE) is one of the four major experiments at the Large Hadron Collider (LHC). It was designed to study the properties of the quark-gluon plasma (QGP) - a state of extremely hot and dense matter in which quarks and gluons are deconfined. This state is created in high-energy heavy-ion collisions and resembles the conditions of the early universe moments after the Big Bang.

Since 2009, ALICE has successfully collected data from various collision systems, including A-A (Pb-Pb, Xe-Xe, O-O), p-A (p-Pb, p-O), and pp. This presentation will review recent highlights from ALICE and outline its ambitious short- and long-term upgrade plans.

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