

CASTOR: The ALICE detector to probe the forward, baryon-rich region in Pb+Pb collisions at the LHC.

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Abstract

The physics motivation and the present status of development of the CASTOR subdetector of the ALICE experiment at the LHC will be presented. CASTOR will probe, in an event-by-event mode, the very forward phase space $5.6 \leq \eta \leq 7.2$ in Pb+Pb collisions. This region is characterized by very large baryon number density and as such has the potential for discovery of novel phenomena. The CASTOR tungsten/quartz-fibre calorimeter will comprise electromagnetic and hadronic sections and will be longitudinally segmented so as to measure the profile of the formation and propagation of hadron cascades through the device. We will focus on the description of the detector and on results of simulations for its performance.

Further information at

<http://angelis.home.cern.ch/angelis/castor/Welcome.html>
