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Overview of the calorimetry performance of ALICE at the LHC

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The ALICE experiment at the LHC is dedicated to the study of the quark-gluon plasma formed in high-energy nuclear collisions. The ALICE electromagnetic calorimeter system, which includes the EMCAL/DCAL lead-scintillator sampling calorimeters and the PHOS high-granularity lead-tungstate crystal calorimeter, provides measurements and triggering on hard probes of the quark-gluon plasma such as high-momentum electrons, photons and jets. In this talk, I will present a summary of the performance of the EMCAL, DCAL and PHOS subsystems during the LHC Run-2, and plans for future upgrades.

Secondary topics

Experience with current calorimetric systems at accelerators

Applications

Experience with current calorimeter at the energy frontier

Primary topic

Other

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