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Neutral meson production measurements with the ALICE/LHC detector

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Identified hadron spectra are considered to be sensitive to transport properties of strongly interacting matter produced in high-energy nucleus-nucleus collisions.

π^0 and η mesons in ALICE are identified via their two-photon decays by using calorimeters and the central tracking system. In the latter, photons are measured via their conversion to electron-positron pairs on the material of the inner ALICE barrel tracking detectors.

The measured production spectra in pp p-Pb and Pb-Pb collisions at mid rapidity and over a wide pT range will be presented in the available LHC energies of Run I.

The resulting nuclear modification factor RAA at different centrality classes shows a clear pattern of strong suppression in the hot QCD medium with respect to pp collisions.

Comparison of the ALICE results on neutral mesons with lower-energy experiments will also be discussed.

Summary

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