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Low mass dilepton measurements with ALICE at the LHC

Tuesday, 2 December 2014 16:00 (30 minutes)

Low mass dileptons are powerful tools to study the evolution of the system created in relativistic heavy ion collisions because (i) they are produced in all stages the collision, and (ii) they do not interact strongly thus leave the collision area unaffected by the final state interactions. Low mass dileptons provide also an ideal way to access the thermal photon radiation from the hot and dense medium in heavy ion collisions, which is a key measurement to characterise the medium directly.

The current status of the low mass dilepton measurements (dielectron at mid-rapidity and dimuon at forward rapidity) in pp, p-Pb and Pb-Pb collisions with the ALICE experiment at LHC will be presented. The perspective of dilepton observables in heavy ion runs in RUN2 phase with higher data taking rate, as well as in RUN3 phase after major upgrades of the ALICE sub-detectors will be discussed.

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