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Strangeness Production in p-Pb and Pb-Pb collisions with ALICE at LHC

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We report on the production of (multi-)strange hadrons measured in proton-lead (p-Pb) collisions at $\sqrt{s_{NN}} = 5.02$ TeV and lead-lead (Pb-Pb) collisions at $\sqrt{s_{NN}} = 2.76$ TeV by ALICE at the LHC. A systematic study of strangeness production is of fundamental importance for determining if particle yields are consistent with expectations for a system that has reached thermal equilibrium. To address this issue, ALICE has performed measurements of strange particle production and ratios to non-strange for systems of various sizes. In addition, results on nuclear modification factors of strange and multi-strange particles are presented.

A comparison of the nuclear modification factors in p-Pb collisions with the corresponding factors in peripheral and central Pb-Pb collisions may help to determine the contributions of initial state effects and the suppression from strange quark energy loss in nuclear matter. The report on the status of the strangeness production analysis in Pb-Pb at the higher energy of $\sqrt{s_{NN}} = 5.02$ TeV is also presented.

On behalf of collaboration:

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