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Type: **Poster**

System-size and energy dependence of hyperon production with ALICE in p-Pb collisions at the LHC

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One of the key results of the LHC Run 1 was the observation of an enhanced production of strange particles in high multiplicity pp and p-Pb collisions at 7 and 5.02 TeV, respectively. In this contribution, the energy dependence of this phenomenon is addressed by new measurements of strange and multi-strange particle production in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV and $\sqrt{s_{NN}} = 8.16$ TeV as function of transverse momentum and multiplicity. The large statistics sample collected during the LHC Run 2 is used. The strangeness enhancement is investigated by measuring the evolution with multiplicity of single-strange and multi-strange baryon production relative to non-strange particles. The results from pp, p-Pb and Pb-Pb are compared to each other as well as to statistical hadronisation models and Monte Carlo predictions.

Content type

Experiment

Collaboration

ALICE

Centralised submission by Collaboration

Presenter name will be specified later

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