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strangeness production in jets and underlying event in pp and p–Pb collisionis with ALICE

Recent ALICE results on the yield of (multi-)strange particles in pp and p–Pb collisions reveal the possibility that similar strange quark production mechanisms could be present in all collision systems.

The p_T -dependent baryon-to-meson yield ratio in hadronic and nuclear collisions is sensitive to the collective expansion of the system, the partonic recombination into hadrons, the jet fragmentation and hadronization.

In this contribution, we explore the connection between (multi-)strange hadron yields enhancement and jet production via the measurement of the p_T -differential spectrum of strange and multi-strange particles (K_S^0 , Λ ($\bar{\Lambda}$), Ξ^\pm and Ω^\pm) within jets and in the underlying event, in pp and p–Pb collisions, respectively.

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