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Type: Talk

Study on production of K_S^0 , Λ ($\bar{\Lambda}$), Ξ^\pm and Ω^\pm in jets and underlying events in pp and p-Pb collisions with ALICE

Monday, 30 August 2021 11:00 (25 minutes)

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 collisions at $\sqrt{s} = 13$ TeV and p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, respectively.

Is this abstract from experiment?

Yes

Name of experiment and experimental site

ALICE

Is the speaker for that presentation defined?

Yes

Details

Name: Pengyao Cui

Title: PhD

Institution name: IOPP, CCNU

Country: China

Webpage of institution: <http://phy.ccnu.edu.cn/>

Internet talk

Yes

Primary author: CUI, Pengyao (Central China Normal University CCNU (CN))

Presenter: CUI, Pengyao (Central China Normal University CCNU (CN))

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