



SPEAKER: Lee Barnby (University of Birmingham (GB))

TITLE: **Observation of enhanced production of strange and multi-strange hadrons in high-multiplicity pp and p-Pb collisions with the ALICE detector.**

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ABSTRACT

The production of strange hadrons has long been studied in heavy-ion collisions to investigate the formation of a deconfined medium. The interpretation of these data depends critically on the understanding of strange-particle production in smaller ‘baseline’ collision systems such as proton-proton and proton-ion. The ALICE experiment is well-suited to the measurement of identified charged hadrons and weakly-decaying strange and multi-strange baryons and has collected large samples of minimum-bias pp and p-Pb collisions. Characterising the collisions according to their final-state multiplicities reveals an enhancement in the production of strange and multi-strange particles, relative to light flavoured hadrons. This detailed information is valuable in understanding the mechanisms that control the production of strange particles.