



Contribution ID: 100

Type: not specified

(Multi-)Strange hadron and light (anti-) nuclei production with ALICE at the LHC

Tuesday 9 September 2014 17:50 (20 minutes)

Thanks to its excellent tracking performance and Particle Identification capabilities, the ALICE detector allows for the identification of light (anti-) (hyper-) nuclei and for the measurement of (multi-) strange particles over a wide range of transverse momentum.

Deuterons, tritons, ^3He and ^4He and their corresponding antinuclei are identified via their specific energy loss in the Time Projection Chamber and the velocity measurement provided by the Time-Of-Flight detector.

Strange and multi-strange baryons and mesons as well as (anti-) hypertritons are reconstructed via their topological decays.

Detailed measurements of (multi-) strange hadron production in pp, p-Pb and Pb-Pb collision and of light (anti-) nuclei and (anti-) hypertritons in Pb-Pb collisions with ALICE at the LHC will be presented.

The experimental results will be compared with the predictions of both statistical hadronization and coalescence models.

Author: LEA, Ramona (University and INFN Trieste)

Presenter: LEA, Ramona (University and INFN Trieste)

Session Classification: Parallel VI: F4 Nuclear and Astroparticle Physics

Track Classification: Section F: Nuclear and Astroparticle Physics