

Measurements of light-flavour resonance production with ALICE at the LHC

The production of hyperon resonances ($\Sigma(1385)$, $\Xi(1530)$ and $\Lambda(1520)$) in pp, p-Pb and Pb-Pb collisions at the LHC is used to probe the interplay of particle re-scattering and regeneration in the hadronic phase. Moreover, resonances containing strange quarks can also be affected by the so-called "strangeness enhancement" phenomenon. The first measurements of the Σ^0 +anti- Σ^0 transverse momentum spectrum and integrated yield in pp collisions at the LHC are presented and compared to that of the Λ baryon and to results from simulations using the pQCD based generators.

Primary author: BORISSOV, Alexander (IHEP (RU))

Presenter: BORISSOV, Alexander (IHEP (RU))

Session Classification: Do not participate

Track Classification: Section 4. Relativistic nuclear physics, elementary particle physics and high-energy physics.