Contribution ID: **244** Type: **not specified**

Measurements of hadron resonance production with ALICE

Sunday, 3 September 2017 14:25 (25 minutes)

Short-lived resonances have been early recognized as good probes to investigate the late-stage evolution of ultra-relativistic heavy-ion collisions. More recently, resonances with different masses and quark composition have provided valuable contributions to the understanding of strangeness production, in particular for the observed multiplicity-dependent enhancement in small systems, and particle production at intermediate transverse momenta. In this light, we will present a comprehensive review of the most recent ALICE results on ρ(770)0, K∗(892)0, ϕ(1020), Σ(1385)±, Λ(1520) and Ξ(1530)0 production in pp, p-Pb and Pb-Pb collisions at various collision energies at the LHC, including results from the latest Pb-Pb run at sNN¯¯¯¯√ = 5.02 TeV. These results, which include centrality- and multiplicity-dependent transverse-momentum spectra, mean transverse momenta, yields, ratios to long-lived hadrons, and nuclear modification factors, will be compared to the results for other hadron species and to predictions from theoretical models.

Presenter: FRAGIACOMO, Enrico (INFN-Trieste)

Session Classification: Hot and dense matter physics (QGP and heavy ion collision)

Track Classification: 1) Hot and dense matter physics (QGP and heavy ion collision)