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Rescattering effects on resonances production in small systems with ALICE at the LHC

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Recent multiplicity-dependent studies of particle production in pp and p-Pb collisions have shown similar features as in heavy-ion collisions. Measurements using resonances could help to understand the possible onset of collective-like phenomena and a non-zero lifetime of the hadronic phase in a small collision system. Measurements of the differential yields of resonances with different lifetimes, masses, quarks contents, and quantum numbers will provide information on the mechanisms that influence the shape of particle momentum spectra, the lifetime of the hadronic phase, strangeness production, parton energy loss, and collective effects. This talk presents new ALICE results on various hadronic resonances in small collision systems at LHC energies, including the multiplicity dependent measurements of $\Lambda(1520)$ and charged K^* and the production of ϕ-meson pairs. The results will be compared with model calculations and measurements at lower energies.

In-person participation

No

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