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K0s and Lambda Production in ALICE

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The production of the Λ and Ξ 0s hadrons at the LHC can be measured through the reconstruction of their weak decay topologies with only charged particles in the final state. The tracking and particle identification capabilities of the ALICE detector allow us to measure the spectra of these particles over a wide transverse momentum range ($0.4 < p_T < 12$ GeV/c), and to precisely determine the behaviour of the baryon-to-meson ratio Λ/K^0 S.

Transverse momentum spectra and production yields at mid-rapidity for Λ and K^0 S will be presented for $\sqrt{s_{NN}} = 2.76$ TeV Pb-Pb collisions as a function of centrality.

The evolution of the Λ/K^0 S ratio will be discussed, in comparison with corresponding results in pp collisions at the LHC and in $\sqrt{s} = 200$ GeV Au-Au collisions at RHIC.

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