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Jet-like correlations with V^0 triggered particles in p-p and pb-pb collisions at $\sqrt{s_{\rm NN}}$ = 5.02 TeV

Tuesday, 9 August 2022 15:10 (15 minutes)

Two-particle correlations with V^0 (K^0_S, $\Lambda/\bar{\Lambda}$) and charged hadrons as trigger particles of transverse momentum
$8 < p_{\rm T,trig} < 16$ GeV/c, and associated charged particles of $1 < p_{\rm T,assoc} < 8$ GeV/c, are studied at mid-rapidity in pp and most central Pb-Pb collisions at $\sqrt{s_{\rm NN}}$ = 5.02 TeV with the ALICE detector at the LHC.
After contributions of the flow background is subtracted, the per-trigger yields are extracted, and the nuclear modification factor, $I_{\rm AA}$, is calculated on both near and away side.
The results of $I_{\rm AA}$ show strongly suppression on away-side and enhancement at low $p_{\rm T}$ on both near- and away-side consistence with previous ALICE measurement of neutral pion (π^0-h) and charged hadrons (h-h) in Pb-Pb collisions at $\sqrt{s_{\rm NN}}$ = 2.76 TeV. In addition, the data are described within uncertainties by AMPT and HIJING event generators.

Summary

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