

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

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

Two-particle correlations with  $V^0$  ( $K_S^0$ ,  $\Lambda/\bar{\Lambda}$ ) and charged hadrons as trigger particles of transverse momentum

$8 < p_{T,\text{trig}} < 16$  GeV/c, and associated charged particles of  $1 < p_{T,\text{assoc}} < 8$  GeV/c, are studied at mid-rapidity in pp and most central Pb-Pb collisions at  $\sqrt{s_{NN}} = 5.02$  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,  $I_{AA}$ , is calculated on both near and away side.

The results of  $I_{AA}$  show strongly suppression on away-side and enhancement at low  $p_T$  on both near- and away-side consistence with previous ALICE measurement of neutral pion ( $\pi^0$ -h) and charged hadrons (h-h) in Pb-Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV. In addition, the data are described within uncertainties by AMPT and HIJING event generators.

## Summary

**Primary author:** ANAAM, Mustafa (PhD)

**Presenter:** ANAAM, Mustafa (PhD)

**Session Classification:** Parallel Session I (3): Heavy Ion Physics

**Track Classification:** 重离子物理