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## Particle yield modification in jet-like azimuthal V<sup>0</sup> -hadron correlations in Pb-Pb collisions at $\sqrt{s_{\rm NN}}$ = 5.02 TeV with ALICE

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Two-particle azimuthal correlations are a powerful tool to investigate the details of the mechanisms of jet quenching and hadron production. Suitable candidates for these studies are strange mesons ( $K_S^0$ ) and baryons ( $\Lambda/\overline{\Lambda}$ ), as their relative production rates differ for jets originating from quark or gluon. Measurements of near- and away-side hadron yields associated with these hadrons as trigger particles therefore provide additional constraining power for in-medium energy loss of different high- $p_T$  partons and their fragmentation properties.

In this contribution, we present ratios of per-trigger yields in Pb-Pb collisions with respect to pp collisions,  $I_{AA}$  measured at midrapidity in the most central 0-10% collisions with the ALICE detector, with  $K_S^0$ ,  $\Lambda/\overline{\Lambda}$  and charged hadrons as trigger particles. A significant enhancement of  $I_{AA}$  for various particle species is found at the lowest associated-particle  $p_{T,assoc}$  on both the near- and away-side, while a strong suppression of  $I_{AA}$  for  $p_{T,assoc} > 3 \text{ GeV}/c$  on away-side is observed, as expected from strong in-medium energy loss. The data are compared to HIJING, AMPT and EPOS models, where the latter two qualitatively describe the near- and away-side yield modifications at intermediate and high  $p_{T,assoc}$ .

## **Experiment/Theory**

ALICE

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Track Klassifizierung: High momentum hadrons and correlations