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Two-particle correlations triggered with strange hadrons in pp collisions at 13 TeV measured with ALICE

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Angular correlations between particles can be utilised to study soft fragmentation and production processes as well as the role of multiple parton interactions. Moreover, a study of the multiplicity dependence can further differentiate between the connection of bulk particles and strangeness production in a more dense environment and the potential role of collective effects.

In this talk, we present results on the two-particle correlation studies in pp collisions at 13 TeV measured with ALICE where strange hadrons (K_S^0 , Λ and Ξ) are used as trigger particles.

The comparison of the correlation functions of the Ξ hyperon associated with different strange and nonstrange mesons and baryons with different models such as PYTHIA8 or EPOS provides an insight into the strangeness production mechanism. The ratios of the per-trigger yields from $\rm K^0_S$ -h and Λ -h to the yields extracted from the h-h correlation function are sensitive to the difference between quark and gluon jets hadronisation mechanism. The multiplicity and $p_{\rm T}^{\rm trigg}$ dependence of the per-trigger yields and balanced yields will be shown.

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