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Jet-Hadron Azimuthal Correlation Measurements in pp Collisions at $\sqrt{s} = 2.76$ TeV and 7 TeV with ALICE

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In heavy-ion collisions, jet properties are expected to be modified by the interaction with the hot and dense medium. The modification is strongly related with properties of hot and dense matter and the study of jet properties is a versatile probe for the properties of the QGP.

However, in heavy-ion collisions it is difficult to recover the jet quenching effects at small particle momentum due to large backgrounds from thermal bulk in such a multi-body system.

The measurement of hadrons with respect to a reconstructed jet allows to relate more directly the momentum and direction of the original parton to the distribution of its fragmentation products.

The study of these correlations in pp collisions provides the baseline for similar measurement in Pb-Pb collisions.

We will present results of Jet-hadron azimuthal correlation studies in pp collisions at 2.76TeV and 7TeV. These results provide information on the jet energy (or momentum), jet shape, distribution of constituent particles in jet and background level in these systems.

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