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Jet azimuthal distributions with high p_T neutral pion triggers in pp collisions at $\sqrt{s} = 7$ TeV from LHC-ALICE

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Jet measurements play an essential role in probing the hot and dense matter in heavy ion collisions through parton energy loss and in observation of possible modification of this matter by the deposited energy. In this talk, we report azimuthal distributions of charged jets with respect to neutral pion triggers with large transverse momentum (p_T) in pp collisions at $\sqrt{s} = 7$ TeV from ALICE. Neutral pions are identified using the electromagnetic calorimeter (EMCal). Jets are reconstructed from charged particle tracks that are measured by the Time-Projection Chamber (TPC) and Inner-Tracking System (ITS). The sample of neutral pions is enhanced by using the EMCal gamma trigger in combination with a shower shape analysis to identify neutral pions. We report conditional yields and Gaussian widths of both near and away-side correlation peaks as a function of neutral pion trigger p_T and jet p_T . The results will also be compared with PYTHIA.

Primary author: WATANABE, Daisuke (University of Tsukuba (JP))

Presenter: WATANABE, Daisuke (University of Tsukuba (JP))

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