



ID de la contribución : 697

Tipo : Poster

Transverse energy-energy correlations at LHC energies

We compute the transverse energy-energy correlations (TEEC) and its asymmetry (AEEC) in NLO for p-p collisions at three c.m. energies i.e. 7, 8 and 13 TeV. We show that the TEEC and AEEC distributions exhibit very small sensitivity to the QCD factorization and renormalization scales as well as to the proton structure function choice. We further discuss the dependence on p_{T_min} , the minimum transverse momentum required in the selection of the final state jets, underlying event effects and the choice of jet radius.

Summary

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Clasificación de temáticas : Strong Interactions and Hadron Physics