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Measurement of the Rapidity Dependence of Dijet Azimuthal Decorrelations and Determination of the Strong Coupling Constant KIRAN CHAKRAVARTHULA, Louisiana Tech University, D0 COLLABORATION
— The first measurement of the rapidity dependence of dijet azimuthal decorrelations is presented. The measurement is based on data taken with the D0 detector in Run II of the Fermilab Tevatron Collider. Dijet azimuthal decorrelations are measured as a function of the scalar sum of the transverse jet momenta in different regions of the dijet scattering angle. The results are compared to pQCD predictions in NLO, and used to test the running of the strong coupling constant in a novel energy regime.

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