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Long-range Correlations in Massive Jets

Summary

I present the calculation the azimuthal anisotropy v_2 extracted from the large $\Delta\eta$ region of two particle $\Delta\eta - \Delta\phi$ correlations in a two-jet system, in which, the masses of the jets are not negligible compared to their energies. As the virtualities of the leading partons, initiating these jets are not negligible either, we use a recently developed, off-shell fragmentation model for the discription of hadron production in the jets. We present the effect of the variation of jet mass and hadron multiplicity on the shape of the v_2 curve, and reproduce the low-multiplicity data set measured in proton-proton collisions at $\sqrt{s} = 13$ TeV.

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