

W+D Charm Jet Fragmentation

Using ATLAS Run 2 data, proton-proton collisions at 13 TeV center of mass energy are analyzed to measure the properties of charmed particle fragmentation. The process $pp \rightarrow W \pm c$, where the c -quark fragments to a $^+$ hadron is used. Since quarks are not directly seen from the collision, a jet of particles containing the charmed hadron is used. This is accomplished by comparing the distribution of z_T , the ratio of the transverse momentum of the $^+$ to that of the track jet containing the hadron, to several Monte Carlo generators.

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