

## 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.

**Primary author:** LYNCH, Alec (Univer)

**Presenter:** LYNCH, Alec (Univer)

**Session Classification:** Poster Session