OLOMOUC, CZECH REPUBLIC
9th International Workshop on Top Quark Physics
19 - 23 September 2016

Contribution ID: **4** Type: **not specified**

Measurement of the differential cross section for t-channel single-top-quark production at 13 TeV

The production of single top quarks is a cornerstone in understanding the nature of the heaviest known elementary particle and its involvement in electroweak interactions. An early differential cross section measurement of t-channel single-top-quark production is presented. Collision data at a center-of-mass energy of 13 TeV collected in 2015 were analyzed, corresponding to 2.3 fb^{-1}. The amount of signal events as a function of the top quark transverse momentum and rapidity is estimated by multiple fits using a multivariate discriminant. The results are unfolded to parton level and compared to predictions by various Monte-Carlo generators.

Summary

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Session Classification: Poster Session & Finger-Food Dinner

Track Classification: Poster Session