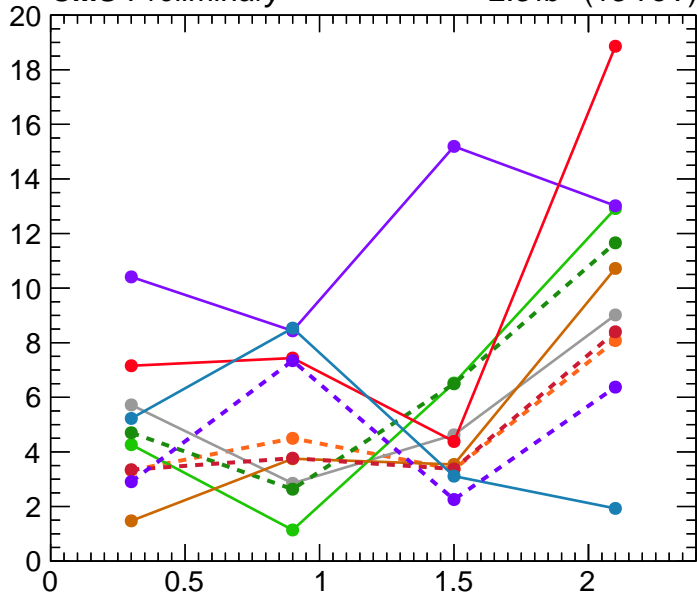


CMS Preliminary

2.3 fb<sup>-1</sup> (13 TeV)

Uncertainty (%)



b-tagging efficiency

Pileup

Jet energy scale

Jet resolution

 $t$ -ch fact./renorm. scale

W+jets fact./renorm. scale

Top quark mass

Top quark  $p_T$  rew.

Signal modeling

Hadronization modeling