

Source	Type	c_{tW}	$c_{t\phi}$	$c_{Q\ell}^{-(\ell)}$	$c_{t\ell}^{(\ell)}$
Integrated luminosity	rate	6%	2%	1%	<1%
JES	rate+shape	6%	2%	1%	<1%
b jet tag		1%	5%	8%	<1%
b jet tag HF fraction	rate+shape				
b jet tag HF stats (linear)	rate+shape				
b jet tag HF stats (quadratic)	rate+shape				
b jet tag LF fraction	rate+shape				
b jet tag LF stats (linear)	rate+shape				
b jet tag LF stats (quadratic)	rate+shape				
cjet mistag		<1%	12%	8%	2%
b jet tag charm (linear)	rate+shape				
b jet tag charm (quadratic)	rate+shape				
PDF (gg)	rate	1%	<1%	<1%	<1%
PDF (gg $_{t\bar{t}H}$)	rate	<1%	1%	<1%	<1%
PDF (q \bar{q})	rate	1%	<1%	<1%	<1%
PDF (qg $_{tHq}$)	rate	<1%	<1%	<1%	<1%
$\mu_{R,F}$ scale (t $\bar{t}H$)	rate	2%	5%	<1%	<1%
$\mu_{R,F}$ scale (t $\bar{t}\gamma$)	rate	1%	1%	<1%	<1%
$\mu_{R,F}$ scale (t $\bar{t}V$)	rate	15%	4%	1%	<1%
$\mu_{R,F}$ scale (tHq)	rate	1%	1%	<1%	<1%
$\mu_{R,F}$ scale (V)	rate	<1%	<1%	<1%	<1%
$\mu_{R,F}$ scale (VV)	rate	<1%	<1%	<1%	<1%
$\mu_{R,F}$ scale (VVV)	rate	<1%	<1%	<1%	<1%
PDF	shape	2%	1%	<1%	<1%
$\mu_{R,F}$ scales	shape	<1%	6%	1%	<1%
FSR	rate+shape	1%	11%	7%	2%
ISR	rate+shape	<1%	8%	3%	<1%
Parton matching	rate+shape	1%	10%	5%	1%
Additional radiation	rate+shape	11%	3%	1%	<1%
Lepton ident./isol.	rate+shape	4%	2%	<1%	<1%
Trigger efficiency	rate+shape	2%	1%	<1%	1%
Pileup	rate+shape	1%	1%	<1%	<1%
Lepton misident.	rate+shape	2%	70%	29%	<1%
Lepton misident. (stat)	rate+shape				
Charge misident.	rate	3%	2%	<1%	<1%