

Uncertainty label	Type	Processes	Initial size	$N_p$
q/g normalization	$Y$	q/g	50%	12
Non-q/g normalization	$Y$	$m_t, m_W, \text{lost t/W}$	25%	12
Non-q/g comp.	$Y$	$m_t, m_W, \text{lost t/W}$	25%	6
Non-q/g comp. $p_T$ dep.	$m_{HH}$	$m_t, m_W, \text{lost t/W}$	$\pm 0.13 \times (m_{HH} / \text{TeV})$	6
SD scale	$m_{b\bar{b}}$	$m_t, m_W, \text{signal}$	1%	1
SD res.	$m_{b\bar{b}}$	$m_t, m_W, \text{signal}$	20%	1
Lost t/W $m_{b\bar{b}}$ scale	$m_{b\bar{b}}$	Lost t/W	$\pm 0.0015 \times (m_{b\bar{b}} / \text{GeV})$	3
Lost t/W low $m_{b\bar{b}}$	$m_{b\bar{b}}$	Lost t/W	$\pm 18 \times (\text{GeV} / m_{b\bar{b}})$	3
q/g $m_{b\bar{b}}$ scale	$m_{b\bar{b}}$	q/g	$\pm 0.0025 \times (m_{b\bar{b}} / \text{GeV})$	3
q/g low $m_{b\bar{b}}$	$m_{b\bar{b}}$	q/g	$\pm 30 \times (\text{GeV} / m_{b\bar{b}})$	3
Non-q/g $m_{HH}$ scale	$m_{HH}$	$m_t, m_W, \text{lost t/W}$	$\pm 0.13 \times (m_{HH} / \text{TeV})$	12
Non-q/g $m_{HH}$ res.	$m_{HH}$	$m_t, m_W, \text{lost t/W}$	$\pm 0.28 \times (\text{TeV} / m_{HH})$	12
q/g $m_{HH}$ scale	$m_{HH}$	q/g	$\pm 0.5 \times (m_{HH} / \text{TeV})$	12
q/g $m_{HH}$ res.	$m_{HH}$	q/g	$\pm 1.4 \times (\text{TeV} / m_{HH})$	12
Luminosity	$Y$	Signal	2.5%	1
PDF and scales	$Y$	Signal	2%	1
Trigger	$Y$	Signal	2%	2
Lepton selection	$Y$	Signal	e:5.7% $\mu$ :5.3%	2
Jet energy scale	$Y, m_{HH}$	Signal	Y:0.5% S:1% R:2%	1
Jet energy res.	$Y, m_{HH}$	Signal	Y:1% S:0.5% R:5%	1
Unclustered energy	$Y, m_{HH}$	Signal	Y:1% S:0.5% R:0.5%	1
$b\bar{b}$ jet b tagging	$Y$	Signal	$< 10\%$	1
AK4 jet b tagging veto	$Y$	Signal	1%	1
$q\bar{q}' \tau_2 / \tau_1$	$Y$	Signal	HP:14% LP:33%	1
$q\bar{q}' \tau_2 / \tau_1$ extrapolation	$Y$	Signal	$< 7\%$	1