

Source of uncertainty	Background uncertainty (%)	Signal uncertainty (%)	Impact (%)
Integrated luminosity	2.7	2.7	5
Lepton trigger & identification efficiency	3-4	3-4	2-4
Lepton momentum scale, resolution	1-7	< 1	1-2
Jet energy scale, resolution	0.1-4	< 1	2
b jet tagging efficiency	< 1	< 1	< 1
Pileup	1-2	0.5-1	2
PDF, α_S	2-3	< 1	< 1
Factorization, renormalization scales (signal)	—	1-2	< 1
Factorization, renormalization scales (VV)	3-4	—	3
Factorization, renormalization scales (VVV)	12	—	< 1
Electroweak correction for $q\bar{q} \rightarrow ZZ$	4.9	—	4
Electroweak uncertainty for WZ	3	—	< 1
DY normalization	100	—	5
$t\bar{t}$, tW, WW normalization	26	—	2-4
MC statistics (signal)	—	1.5-10	< 1
MC statistics (ZZ, WZ, VVV)	1-20	—	< 1
MC statistics (DY)	30-50	—	< 1
MC statistics ($t\bar{t}$, tW, WW)	8-10	—	< 1