

Uncertainty source	2016	2017	2018
Pileup	3.6%	2.5%	2.3%
Integrated luminosity	2.5%	2.3%	2.5%
Jet energy scale*	3.1%	3.2%	4.2%
Jet energy resolution	1.2%	2.9%	1.8%
Heavy-flavor jet identification*	1.8%	5.3%	2.3%
Heavy-flavor jet identification	1.5%	3.6%	1.9%
Light-flavor jet identification*	1.0%	1.0%	1.0%
Light-flavor jet identification	0.4–0.5%	0.5%	0.4%
Soft unclustered energy for MET	1.7%	1.4%	1.4%
Di-electron vertex reconstruction and selection	40%	24%	24%
Trigger efficiency	1.0%	1.0%	1.0%