

Sources	$H \rightarrow Z\gamma \rightarrow \ell\ell\gamma$	$H \rightarrow \gamma^*\gamma \rightarrow \mu\mu\gamma$
Theory		
– ggH cross section (scale)	3.9%	3.9%
– ggH cross section (PDF)	3.2%	3.2%
– VBF cross section (scale)	+0.4% – 0.3%	+0.4% – 0.3%
– VBF cross section (PDF)	2.1%	2.1%
– WH cross section (scale)	+0.5% – 0.7%	+0.5% – 0.7%
– WH cross section (PDF)	1.9%	1.9%
– ZH cross section (scale)	+3.8% – 3.1%	+3.8% – 3.1%
– ZH cross section (PDF)	1.6%	1.6%
– $t\bar{t}H$ cross section (scale)	+5.8% – 9.2%	—
– $t\bar{t}H$ cross section (PDF)	3.6%	—
Underlying event and parton shower		
– Muon channel	3%	4.7%
– Electron channel	3%	—
Branching fraction	5.7%	6%
Integrated luminosity	2.5%	2.5%
Lepton identification and isolation		
– Muon channel	0.6%	2%
– Electron channel	1.2%	—
Photon identification and isolation		
– Muon channel	2.3%	1.6%
– Electron channel	2.2%	—
Pileup reweighting		
– Muon channel	0.6%	0.3%
– Electron channel	0.9%	—
R_9 reweighting		
– Muon channel	6.5%	9%
– Electron channel	6.8%	—
Trigger		
– Muon channel	1.3%	4%
– Electron channel	1%	—
Energy and momentum (muon channel)		
– Signal mean	0.04%	0.08%
– Signal resolution	4%	5%
Energy (electron channel)		
– Signal mean	0.15%	—
– Signal resolution	4%	—
Jet energy scale		
– Muon channel	2.5%	3.8%
– Electron channel	2.7%	—
Jet energy resolution		
– Muon channel	0.3%	0.7%
– Electron channel	0.3%	—