

Source of uncertainty	Categories and processes	Type	Correlation vs cat.	Correlation vs year
Experimental uncertainties				
Integrated luminosity	Sig. in all cat., bkg. in VBF	Rate	Correlated	Partial
Muon efficiency	Sig. in all cat., bkg. in VBF	Rate	Correlated	Correlated
Electron efficiency	Sig. in tH and VH	Rate	Correlated	Correlated
Muon trigger	Sig. in all cat., bkg. in VBF	Rate	Correlated	Correlated
Muon p_T scale	Sig. in all cat., bkg. in VBF	Shape in VBF, rate in others	Correlated	Correlated
Nonprompt leptons	Sig. in tH and VH	Rate	Correlated	Correlated
Pileup model	Sig. in all cat., bkg. in VBF	Shape in VBF, rate in others	Correlated	Uncorrelated
L1 inefficiency	Sig. in all cat., bkg. in VBF	Shape in VBF, rate in others	Correlated	Uncorrelated
B-tagging efficiency	Sig. in all cat., bkg. in VBF	Shape in VBF, rate in others	Correlated	Correlated
Jet energy scale	Sig. in all cat., bkg. in VBF	Shape in VBF, rate in others	Correlated	Partial
Jet energy resolution	Sig. in all cat., bkg. in VBF	Shape in VBF, rate in others	Correlated	Uncorrelated
Theoretical uncertainties				
μ_R and μ_F for ggH	ggH in all cat.	Rate	Correlated	Correlated
μ_R and μ_F for VBF	VBF in all cat.	Rate	Correlated	Correlated
μ_R and μ_F for tH	tH in all cat.	Rate	Correlated	Correlated
μ_R and μ_F for VH	VH in all cat.	Rate	Correlated	Correlated
PDF for ggH	ggH in all cat.	Rate	Correlated	Correlated
PDF for VBF	VBF in all cat.	Rate	Correlated	Correlated
PDF for tH	tH in all cat.	Rate	Correlated	Correlated
PDF for VH	VH in all cat.	Rate	Correlated	Correlated
ggH accept. vs $(p_T(H), N_j, m_{jj})$	ggH in all cat.	Shape in VBF, rate in others	Correlated	Correlated
VBF accept. vs $(p_T(H), N_j, m_{jj})$	VBF in all cat.	Shape in VBF, rate in others	Correlated	Correlated
tH accept. from μ_R and μ_F	tH in all cat.	Rate	Correlated	Correlated
VH accept. from μ_R and μ_F	VH in all cat.	Rate	Correlated	Correlated
tH accept. from PDF	tH in all cat.	Rate	Correlated	Correlated
VH accept. from PDF	VH in all cat.	Rate	Correlated	Correlated
PYTHIA ISR and FSR	Sig. in all cat., bkg. in VBF	Shape in VBF, rate in others	Correlated	Correlated
PYTHIA vs HERWIG)	VBF and Zjj-EW in VBF cat.	Shape	Correlated	Correlated
μ_R and μ_F for Drell-Yan	VBF cat.	Shape	Correlated	Correlated
μ_R and μ_F for Zjj-EW	VBF cat.	Shape	Correlated	Correlated
μ_R and μ_F for top bkgs.	VBF cat.	Shape	Correlated	Correlated
μ_R and μ_F for diboson	VBF cat.	Shape	Correlated	Correlated
PDF for Drell-Yan	VBF cat.	Shape	Correlated	Correlated
PDF for Zjj-EW	VBF cat.	Shape	Correlated	Correlated
PDF for top bkgs.	VBF cat.	Shape	Correlated	Correlated
PDF for dibosons	VBF cat.	Shape	Correlated	Correlated
Size of simulated samples	VBF cat.	Bin-by-bin	—	Uncorrelated