

Systematic unc.	Impacts on yields (%)
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Effect of various uncertainties on ggHH signal	
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PDF + α_s	3.0
QCD scale	2.1/-4.9
m_{top}	4.0/-18.0

Effect of various uncertainties on VBFHH signal	
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PDF + α_s	2.1
QCD scale	0.3/-0.4
Dipole recoil	2.0

Effect of QCD scale unc. for single H background	
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ggH	4.6/-6.7
VBF	0.5/-0.3
VH	0.4/-0.7
ttH	6.0/-9.2
tHq	6.4/-14.7

Effect of PDF+ α_s unc. for single H background	
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ggH	3.2/-3.2
VBFH	2.1/-2.1
VH	1.8/-1.8
ttH	3.5/-3.5
tHQ	3.6/-3.6