

Theory uncertainties

Branching fractions

$\mathcal{B}(H \rightarrow b\bar{b})$	1.2%
$\mathcal{B}(H \rightarrow ZZ)$	1.5%

PDF set and α_S

HH	3.0%
HH (m_{top} effects)	$+4.0\%$ -18.0%
ggH (PDF set)	1.9%
ggH (α_S)	2.59–2.62%
VBFH	2.1%
ZH	1.6%
WH	1.3%
$b\bar{b}H$	3.2%
$t\bar{t}H$	3.0%
qqZZ	3.1–3.4%
$t\bar{t}Z$	7–14%
VVV	2–17%
ggZZ	3.2%

Scale uncertainties

HH	2.2–5%
ggH	4.27–6.49%
VBFH	0.3–0.4%
ZH	2.7–3.5%
$t\bar{t}H$	6.0–9.2%
qqZZ	3.2–4.2%
$t\bar{t}Z$	2–3%
VVV	3%
ggZZ	4.6–6.7%

K -factors

qqZZ	0.1%
ggZZ	10.0%