

Systematics	$\alpha_{\text{VBF}}$	$\alpha_{\text{ggF/DY}}$	VBF SR	VBF CR	ggF/DY SR	ggF/DY CR
Luminosity	-	-	2.4	2.4	2.4	2.4
$\tau_{21}$ SF (HP)	-	-	7.3	7.3	7.3	7.3
$\tau_{21}$ SF (LP)	-	-	17.0	17.0	17.0	17.0
Pileup (HP)	-	-	3.9	2.0	1.0	1.7
Pileup (LP)	-	-	3.9	3.7	0.8	0.9
b jet veto (HP)	-	-	2.4	3.5	1.8	2.8
b jet veto (LP)	-	-	2.9	3.2	2.2	2.6
Prefiring (HP)	-	-	0.7	0.8	0.3	0.4
Prefiring (LP)	-	-	0.6	0.7	0.2	0.3
Unclust. Energy (HP)	-	-	2.4	1.8	1.8	1.6
Unclust. Energy (LP)	-	-	1.6	1.4	1.3	1.5
JMR (HP)	-	-	1.2	5.9	1.7	7.1
JMR (LP)	-	-	1.6	0.7	1.01	0.96
$\tau_{21}$ $p_T$ extrap. (HP)	-	-	2 - 18	2 - 18	2 - 18	2 - 18
$\tau_{21}$ $p_T$ extrap. (LP)	-	-	1 - 10	1 - 10	1 - 10	1 - 10
JMS Up (HP)	-	-	0.3	1.8	0.3	1.6
JMS Down (HP)	-	-	0.5	0.9	0.3	1.2
JMS Up (LP)	-	-	0.4	0.5	0.2	0.4
JMS Down (LP)	-	-	0.4	0.5	0.3	0.4
Trigger Up (HP)	-	-	1.0	0.8	1.1	0.9
Trigger Down (HP)	-	-	1.4	1.4	1.4	1.4
Trigger Up (LP)	-	-	1.0	0.9	1.0	0.9
Trigger Down (LP)	-	-	1.4	1.4	1.4	1.4
JEC	3.0	1 - 2	40 - 13	40 - 13	4.0	4.0
JER	3.0	1.5	35 - 13	35 - 13	2.0	2.0
PDF normalization	-	-	5.0	5.0	2.0	2.0
PDF shape	3.0	1.5	0.5 - 4	0.5 - 4	0.5 - 4	0.5 - 4
$\mu_R, \mu_F$ scale normalization	-	-	15	15	11	12
$\mu_R, \mu_F$ scale shape	1 - 2	1 - 2	1 - 10	2 - 4	3 - 8	3 - 4
Non-closure	7 - 40%	7 - 40%	-	-	-	-