

Event category	SM Higgs ( $m_H = 125$ GeV)				Background	Data
	ggH	VBF	VH	$\Sigma$ signal		
$\mu\mu$						
0-jet low- $p_T^\mu$ 7 TeV	8.0	0.1	0.1	$8.2 \pm 1.2$	$266200 \pm 1400$	266365
0-jet low- $p_T^\mu$ 8 TeV	25.4	0.3	0.6	$26.4 \pm 3.8$	$873200 \pm 2600$	873709
0-jet high- $p_T^\mu$ 7 TeV	5.5	0.1	0.3	$5.9 \pm 0.8$	$982900 \pm 2100$	982442
0-jet high- $p_T^\mu$ 8 TeV	30.6	0.4	3.5	$34.6 \pm 4.6$	$3775700 \pm 3100$	3776365
1-jet low- $p_T^\mu$ 7 TeV	2.5	0.4	0.3	$3.2 \pm 0.4$	$18680 \pm 180$	18757
1-jet low- $p_T^\mu$ 8 TeV	7.0	1.0	0.6	$8.6 \pm 1.1$	$40900 \pm 360$	40606
1-jet high- $p_T^\mu$ 7 TeV	3.7	1.4	1.9	$7.0 \pm 0.6$	$233600 \pm 1200$	234390
1-jet high- $p_T^\mu$ 8 TeV	15.1	2.2	4.4	$21.7 \pm 2.3$	$646000 \pm 2500$	646549
2-jet 7 TeV	1.4	0.2	0.7	$2.4 \pm 0.3$	$33260 \pm 350$	33186
2-jet 8 TeV	6.3	3.9	2.6	$12.8 \pm 1.4$	$164100 \pm 1400$	164469
ee						
0-jet low- $p_T^e$ 7 TeV	3.6	–	0.1	$3.7 \pm 0.5$	$190900 \pm 1000$	190890
0-jet low- $p_T^e$ 8 TeV	14.3	0.2	0.3	$14.7 \pm 2.2$	$519440 \pm 700$	519376
0-jet high- $p_T^e$ 7 TeV	4.0	–	0.5	$4.5 \pm 0.6$	$819900 \pm 1700$	820035
0-jet high- $p_T^e$ 8 TeV	22.3	0.3	2.5	$25.1 \pm 3.4$	$3225000 \pm 2000$	3225144
1-jet low- $p_T^e$ 7 TeV	1.5	0.2	0.1	$1.8 \pm 0.2$	$10268 \pm 97$	10300
1-jet low- $p_T^e$ 8 TeV	4.6	0.6	0.3	$5.5 \pm 0.7$	$26570 \pm 180$	26604
1-jet high- $p_T^e$ 7 TeV	2.4	0.4	0.6	$3.4 \pm 0.4$	$144900 \pm 740$	144945
1-jet high- $p_T^e$ 8 TeV	11.7	1.9	3.2	$16.9 \pm 1.8$	$560000 \pm 1900$	560104
2-jet 7 TeV	1.6	0.6	0.4	$2.6 \pm 0.4$	$35800 \pm 280$	35796
2-jet 8 TeV	5.0	2.8	1.6	$9.4 \pm 1.1$	$140000 \pm 1200$	140070