

Process	$2lss$	$3l$	$4l$
SM HH $\rightarrow$ WW*WW* ( $\times 30$ )	$73 \pm 6$	$33 \pm 3$	$2.2 \pm 0.2$
SM HH $\rightarrow$ WW* $\tau\tau$ ( $\times 30$ )	$31 \pm 3$	$12 \pm 1$	$0.9 \pm 0.1$
SM HH $\rightarrow$ $\tau\tau\tau\tau$ ( $\times 30$ )	$3 \pm 0$	$1 \pm 0$	$0.1 \pm 0.0$
WZ	$1999 \pm 122$	$1318 \pm 78$	$0.4 \pm 0.1$
ZZ	$121 \pm 3$	$109 \pm 3$	$53.9 \pm 3.1$
Misidentified $\ell$	$4842 \pm 1327$	$510 \pm 94$	$2.2 \pm 1.1$
Conversion electrons	$804 \pm 174$	$117 \pm 24$	$0.7 \pm 0.3$
Electron charge misid.	$394 \pm 61$	—	—
Single Higgs boson	$214 \pm 6$	$61 \pm 1$	$2.4 \pm 0.3$
Other backgrounds	$2740 \pm 338$	$289 \pm 29$	$4.0 \pm 0.5$
Total expected background	$11\,114 \pm 1387$	$2404 \pm 128$	$63.7 \pm 3.3$
Data	10 344	2621	62

Process	$3l + 1\tau_h$	$2l + 2\tau_h$	$1l + 3\tau_h$	$4\tau_h$
SM HH $\rightarrow$ WW*WW* ( $\times 30$ )	$0.9 \pm 0.1$	$0.2 \pm 0.0$	$0.2 \pm 0.0$	$0.3 \pm 0.0$
SM HH $\rightarrow$ WW* $\tau\tau$ ( $\times 30$ )	$4.1 \pm 0.3$	$3.9 \pm 0.4$	$0.6 \pm 0.1$	$0.1 \pm 0.0$
SM HH $\rightarrow$ $\tau\tau\tau\tau$ ( $\times 30$ )	$0.9 \pm 0.1$	$2.3 \pm 0.3$	$2.6 \pm 0.4$	$1.3 \pm 0.2$
WZ	$0.2 \pm 0.0$	$<0.1$	$<0.1$	$<0.1$
ZZ	$24.1 \pm 1.4$	$18.4 \pm 1.3$	$1.9 \pm 0.2$	$0.7 \pm 0.1$
Misidentified $\ell$ and $\tau_h$	$23.9 \pm 6.6$	$31.9 \pm 10.1$	$2.2 \pm 2.1$	$2.2 \pm 1.6$
Conversion electrons	$0.1 \pm 0.0$	$0.1 \pm 0.1$	$<0.1$	$<0.1$
Single Higgs boson	$3.8 \pm 0.4$	$2.8 \pm 0.7$	$0.8 \pm 0.4$	$0.4 \pm 0.3$
Other backgrounds	$2.8 \pm 0.4$	$2.2 \pm 0.8$	$0.1 \pm 0.1$	$<0.1$
Total expected background	$54.9 \pm 6.8$	$55.4 \pm 10.3$	$5.0 \pm 2.2$	$3.4 \pm 1.6$
Data	55	55	6	1

Process	$3l$ WZ CR	$4l$ ZZ CR
WZ	$12\,565 \pm 705$	$<1$
ZZ	$765 \pm 47$	$2000 \pm 108$
Misidentified $\ell$	$804 \pm 211$	$13 \pm 4$
Conversion electrons	$106 \pm 21$	$2 \pm 0$
Other backgrounds	$625 \pm 76$	$60 \pm 8$
Total expected background	$14\,866 \pm 742$	$2074 \pm 108$
Data	14 994	2096