

| m_{jj} bin range (GeV) | 200–400 | 400–600 | 600–900 | 900–1200 | 1200–1500 | 1500–2000 | 2000–2750 | 2750–3500 | >3500 |
|---|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|------------------|-----------------|----------------|
| Z($\nu\nu$) + jets (strong) | 14150.5 \pm 61.3 | 8498.6 \pm 45.5 | 5891.5 \pm 34.4 | 2490.3 \pm 18.1 | 1096.6 \pm 12.2 | 730.4 \pm 9.4 | 278.9 \pm 5.8 | 55.9 \pm 2.3 | 20.5 \pm 1.2 |
| Z($\nu\nu$) + jets (VBF) | 228.8 \pm 4.5 | 276.0 \pm 5.1 | 348.3 \pm 5.6 | 254.4 \pm 4.9 | 167.7 \pm 4.3 | 191.5 \pm 4.8 | 123.3 \pm 4.4 | 36.8 \pm 2.1 | 24.3 \pm 1.9 |
| W($\ell\nu$) + jets (strong) | 7323.4 \pm 51.4 | 4566.3 \pm 38.3 | 3243.7 \pm 29.5 | 1357.2 \pm 17.3 | 603.5 \pm 11.1 | 418.9 \pm 8.3 | 160.2 \pm 5.8 | 38.3 \pm 3.0 | 18.4 \pm 2.2 |
| W($\ell\nu$) + jets (VBF) | 145.4 \pm 7.7 | 163.6 \pm 8.4 | 191.7 \pm 9.7 | 133.5 \pm 6.6 | 90.7 \pm 4.7 | 98.1 \pm 5.2 | 66.2 \pm 3.7 | 31.9 \pm 2.6 | 13.3 \pm 1.4 |
| $t\bar{t}$ + single t quark | 261.3 \pm 13.9 | 234.8 \pm 12.6 | 151.5 \pm 8.7 | 55.2 \pm 3.5 | 28.9 \pm 1.9 | 29.0 \pm 2.0 | 12.2 \pm 1.2 | 4.4 \pm 0.4 | 1.4 \pm 0.2 |
| Diboson | 264.0 \pm 31.4 | 172.2 \pm 20.7 | 144.5 \pm 17.5 | 51.0 \pm 6.2 | 23.6 \pm 3.0 | 18.2 \pm 2.4 | 4.6 \pm 0.6 | 0.4 \pm 0.1 | 0.0 \pm 0.1 |
| Z/ γ^* ($\ell^+\ell^-$) + jets | 105.7 \pm 2.8 | 71.4 \pm 2.0 | 57.3 \pm 1.9 | 22.6 \pm 0.8 | 10.1 \pm 0.4 | 7.6 \pm 0.5 | 2.3 \pm 0.2 | 0.9 \pm 0.1 | 0.2 \pm 0.1 |
| Multijet | 4.4 \pm 1.3 | 4.5 \pm 1.3 | 3.8 \pm 1.1 | 2.1 \pm 0.6 | 1.0 \pm 0.3 | 1.0 \pm 0.3 | 0.5 \pm 0.2 | 0.2 \pm 0.1 | 0.1 \pm 0.1 |
| HF noise | 0.0 \pm 0.1 | 18.5 \pm 2.2 | 54.4 \pm 6.4 | 45.2 \pm 5.3 | 18.8 \pm 2.2 | 38.0 \pm 4.4 | 44.0 \pm 5.1 | 19.8 \pm 2.3 | 13.4 \pm 1.6 |
| ggH(\rightarrow inv) | 719.3 | 534.7 | 461.5 | 232.2 | 119.0 | 95.1 | 52.2 | 15.7 | 7.2 |
| qqH(\rightarrow inv) | 74.3 | 171.3 | 340.3 | 327.8 | 269.2 | 321.6 | 271.1 | 115.3 | 72.4 |
| WH(\rightarrow inv) | 39.6 | 22.9 | 12.6 | 5.2 | 1.9 | 1.1 | 0.3 | 0.2 | 0.1 |
| qqZH(\rightarrow inv) | 18.4 | 8.5 | 3.9 | 1.9 | 0.4 | 0.6 | 0.2 | 0.0 | 0.0 |
| ggZH(\rightarrow inv) | 17.2 | 11.2 | 7.6 | 3.1 | 1.2 | 1.0 | 0.4 | 0.1 | 0.0 |
| ttH(\rightarrow inv) | 4.7 | 3.4 | 2.6 | 1.1 | 0.5 | 0.4 | 0.1 | 0.0 | 0.0 |
| Total bkg. | 22483.4 \pm 87.5 | 14005.9 \pm 65.1 | 10086.6 \pm 51.1 | 4411.4 \pm 27.8 | 2040.8 \pm 18.1 | 1532.7 \pm 15.4 | 692.3 \pm 11.4 | 188.6 \pm 5.6 | 91.7 \pm 3.7 |
| Observed | 22505 | 14036 | 10220 | 4374 | 2080 | 1555 | 695 | 176 | 95 |