

| 138 fb <sup>-1</sup>              | Lepton | Dijet 1  | Dijet 2      | Dijet 3      | Untagged 1   | Untagged 2   | Untagged 3   | Untagged 4   |
|-----------------------------------|--------|--|--------------|--------------|--------------|--------------|--------------|--------------|
| SM signal yield                   |        |  |              |              |              |              |              |              |
| ggH                               | 0.51   | e <sup>+</sup> e <sup>-</sup><br>μ <sup>+</sup> μ <sup>-</sup> | 1.10<br>1.41 | 1.62<br>2.05 | 9.44<br>12.1 | 6.89<br>8.52 | 7.35<br>9.17 | 29.8<br>38.0 |
| VBF                               | 0.09   | e <sup>+</sup> e <sup>-</sup><br>μ <sup>+</sup> μ <sup>-</sup> | 1.94<br>2.40 | 0.76<br>0.97 | 1.13<br>1.43 | 0.71<br>0.89 | 0.35<br>0.43 | 0.92<br>1.18 |
| VH + t̄tH                         | 1.84   | e <sup>+</sup> e <sup>-</sup><br>μ <sup>+</sup> μ <sup>-</sup> | 0.04<br>0.05 | 0.13<br>0.16 | 1.89<br>2.36 | 0.31<br>0.39 | 0.17<br>0.21 | 0.45<br>0.57 |
| SM resonant background            |        |  |              |              |              |              |              |              |
| H → μ <sup>+</sup> μ <sup>-</sup> | 0.14   | μ <sup>+</sup> μ <sup>-</sup>                                  | 0.27         | 0.27         | 0.43         | 0.62         | 0.49         | 2.02         |
| Mass resolution (GeV)             | 2.12   | e <sup>+</sup> e <sup>-</sup><br>μ <sup>+</sup> μ <sup>-</sup> | 1.91<br>1.52 | 2.06<br>1.61 | 2.15<br>1.72 | 1.80<br>1.37 | 1.97<br>1.42 | 2.12<br>1.62 |
| Data yield                        | 1485   |  | 168          | 589          | 11596        | 1485         | 1541         | 2559         |
| S / √B                            | 0.06   |  | 0.54         | 0.24         | 0.26         | 0.45         | 0.35         | 0.30         |