

| Categories      |                          | Signal processes  |                  |
|-----------------|--------------------------|-------------------|------------------|
|                 |                          | ggh, bbh, VBF, Vh | ggH/ggA, bbH/bbA |
| No b tag        | $m_{\tau\tau} < 250$ GeV | ✓                 | ✓                |
| No b tag        | $m_{\tau\tau} > 250$ GeV | —                 | ✓                |
| b tag           |                          | ✓                 | ✓                |
| Control regions |                          | ✓                 | —                |