

| Source of uncertainty                                   | Process                   | Rate   |
|---|---------------------------|--------|
| Trigger selection                                       | Simulated samples         | 2%     |
| $m_{4\ell}$ resolution                                  | Higgs boson               | 20%    |
| $h \rightarrow ZZ \rightarrow 4\ell$ branching fraction | Higgs boson               | 2%     |
| $gg \rightarrow ZZ$ NNLO to LO $K$ factor               | $gg \rightarrow ZZ$ bkg.  | 10%    |
| Genuine $p_T^{\text{miss}}$                             | Simulated samples (Shape) | 7–26%  |
| Mismeasured $p_T^{\text{miss}}$                         | Z+Xbkg. (Shape)           | 2–30%  |
| Z+Xbkg. yield   | Z+Xbkg. (Yield)           | 36–43% |
| $t\bar{t}$ +Vbkg. yield                                 | $t\bar{t}$ +Vbkg.         | 27–34% |