

| Production process |         | incl. cross section precision     | 7 TeV                 | 8 TeV                 | 13 TeV                |
|--------------------|---------|-----------------------------------|-----------------------|-----------------------|-----------------------|
| ggH                |         | N <sup>3</sup> LO (QCD), NLO (EW) | POWHEG 1.0+PYTHIA 6.4 | POWHEG 1.0+PYTHIA 6.4 | POWHEG 2.0+PYTHIA 8.1 |
| qqH                |         | NNLO (QCD), NLO (EW)              | POWHEG 1.0+PYTHIA 6.4 | POWHEG 1.0+PYTHIA 6.4 | POWHEG 2.0+PYTHIA 8.1 |
| VH                 | qq → VH | NNLO (QCD), NLO (EW)              | PYTHIA 6.4            | PYTHIA 6.4            | PYTHIA 8.1            |
|                    | gg → ZH | NNLO (QCD), NLO (EW)              | POWHEG 2.0+PYTHIA 8.1 | POWHEG 2.0+PYTHIA 8.1 | POWHEG 2.0+PYTHIA 8.1 |