

Table 1: Summary of different Standard Model signal models.

Signal process	$\mathcal{A}_{\text{fid}}$	$\epsilon$	$f_{\text{nonfid}}$	$(1 + f_{\text{nonfid}})$
Individual Higgs boson production modes				
$gg \rightarrow H$ (POWHEG+JHUGEN+PYTHIA8) 125	$0.402 \pm 0.001$	$0.599 \pm 0.001$	$0.053 \pm 0.001$	$0.631 \pm 0.001$
VBF (POWHEG+JHUGEN+PYTHIA8) 125	$0.444 \pm 0.001$	$0.612 \pm 0.002$	$0.043 \pm 0.001$	$0.638 \pm 0.001$
WH (POWHEG+MINLO+JHUGEN+PYTHIA8) 125	$0.325 \pm 0.001$	$0.595 \pm 0.002$	$0.075 \pm 0.001$	$0.640 \pm 0.001$
ZH (POWHEG+MINLO+JHUGEN+PYTHIA8) 125	$0.340 \pm 0.002$	$0.602 \pm 0.003$	$0.081 \pm 0.002$	$0.651 \pm 0.002$
$ttH$ (POWHEG+JHUGEN+PYTHIA8) 125	$0.314 \pm 0.002$	$0.591 \pm 0.003$	$0.169 \pm 0.003$	$0.691 \pm 0.003$
$ggH$ (NNLOPS)	$0.442 \pm 0.001$	$0.595 \pm 0.001$	$0.049 \pm 0.001$	$0.624 \pm 0.001$