

MC sample	Improvement
$t\bar{t}$	12.2%
$Z(\rightarrow l^+ l^-)H(\rightarrow b\bar{b})$	12.8%
$H(\rightarrow b\bar{b})H(\rightarrow \gamma\gamma)$ SM	13.1%
$H(\rightarrow b\bar{b})H(\rightarrow \gamma\gamma)$ resonant 500 GeV	14.5%
$H(\rightarrow b\bar{b})H(\rightarrow \gamma\gamma)$ resonant 700 GeV	13.1%