CMS Private Work

138 fb^{-1} (13 TeV)

R_{int} : −0.2, −0.1, +0.1, +0.2

HH comb.

bbττ (this Thesis)

$k_\lambda = 1$

λ_{HHX} [GeV]

M_X = 280 GeV

$\Gamma_X/M_X = 5\%$

$\Gamma_X/M_X = 10\%$

M_X = 400 GeV

$\Gamma_X/M_X = 5\%$

$\Gamma_X/M_X = 10\%$

M_X = 500 GeV

$\Gamma_X/M_X = 5\%$

$\Gamma_X/M_X = 10\%$

M_X = 600 GeV

$\Gamma_X/M_X = 5\%$

$\Gamma_X/M_X = 10\%$

$\Gamma_X/M_X = 20\%$

M_X = 700 GeV

$\Gamma_X/M_X = 5\%$

$\Gamma_X/M_X = 10\%$

$\Gamma_X/M_X = 20\%$

M_X = 800 GeV

$\Gamma_X/M_X = 5\%$

$\Gamma_X/M_X = 10\%$

$\Gamma_X/M_X = 20\%$

500, 300, 100, -100, -300, -500

0.1, 0.3, 0.5, 0.7, 0.9

$\sin\alpha$