

$\sigma_{t\bar{t}h}$

JSFBeamGeneration.FileName:/nfs/g/ilc/soft/samples/gen/bsdata/500_nominal.root

This file works and I could reproduce Ryo's number.

(Pe-,Pe+) = (-1, +1), sqrt(s) = 500 GeV, K = 0.843

- old beam setting, $M_h = 120$ GeV, $M_{top} = 175$ GeV

$\sigma_{t\bar{t}h} = 1.07$ fb (Ryo's paper)

$\sigma_{t\bar{t}h} = 1.078$ fb (at my directory)

- DBD beam settings, $M_h = 120$ GeV, $M_{top} = 175$ GeV

$\sigma_{t\bar{t}h} = 0.8809$ fb

There is $\sim 20\%$ difference on cross section between old and DBD beam parameter settings.

- DBD beam settings, $M_h = 125$ GeV, $M_{top} = 174$ GeV

$\sigma_{t\bar{t}h} = 0.682$ fb

Mass parameter settings make another $\sim 20\%$ difference on $\sigma_{t\bar{t}h}$.