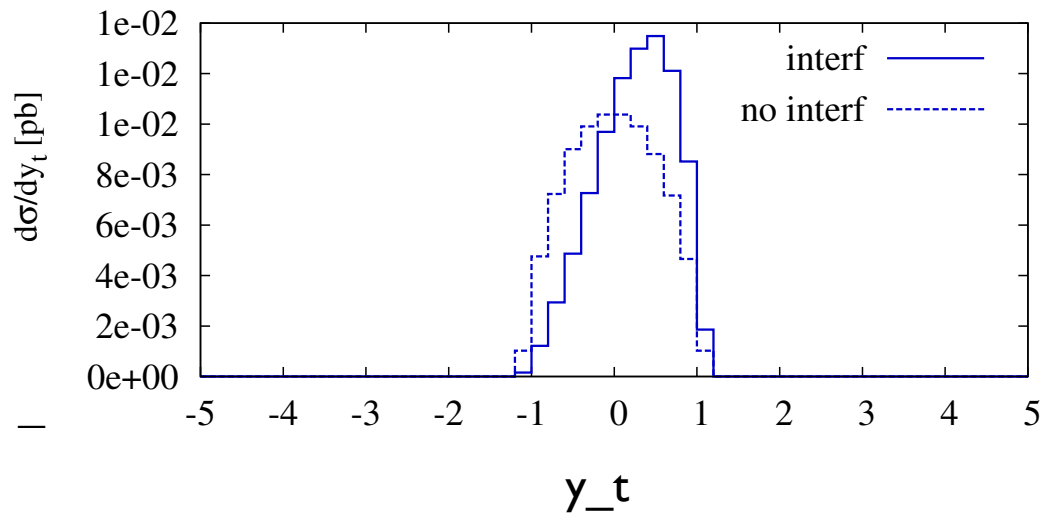
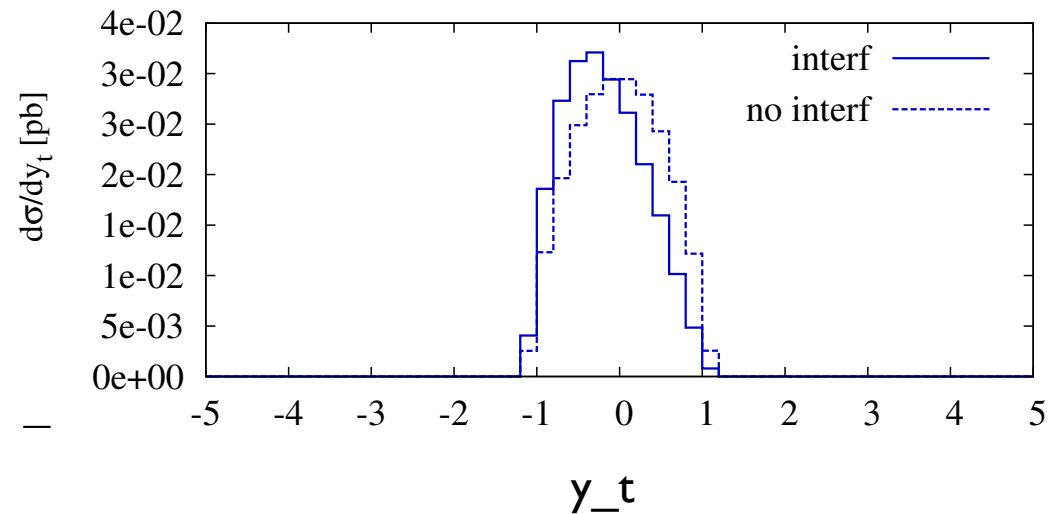


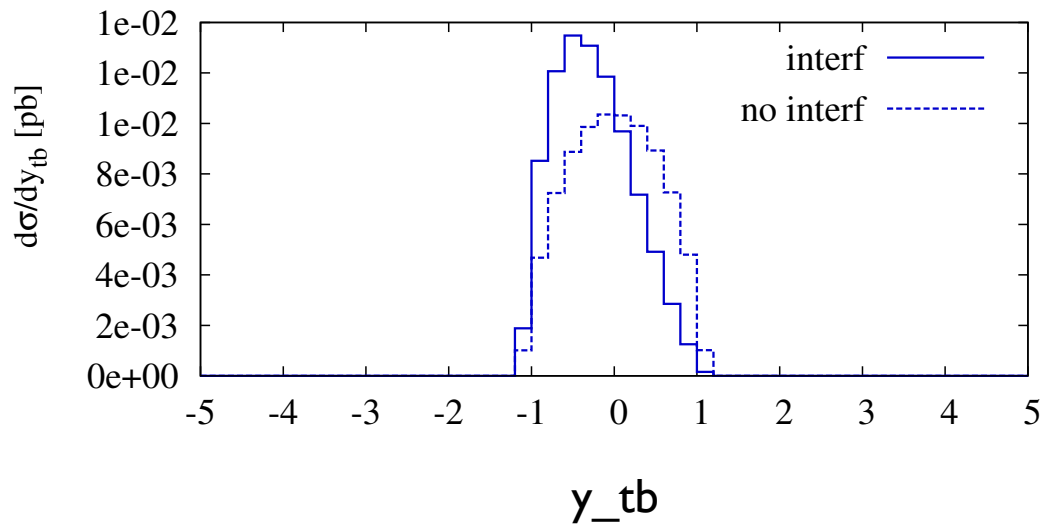
d db > t tb a ; 300 GeV x 300 GeV



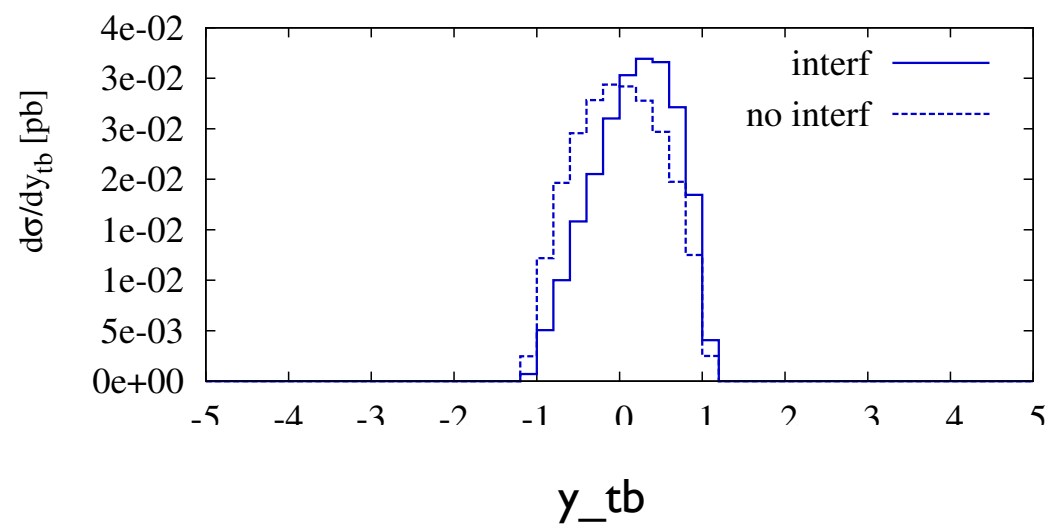
u ub > t tb a ; 300 GeV x 300 GeV



d db > t tb a ; 300 GeV x 300 GeV

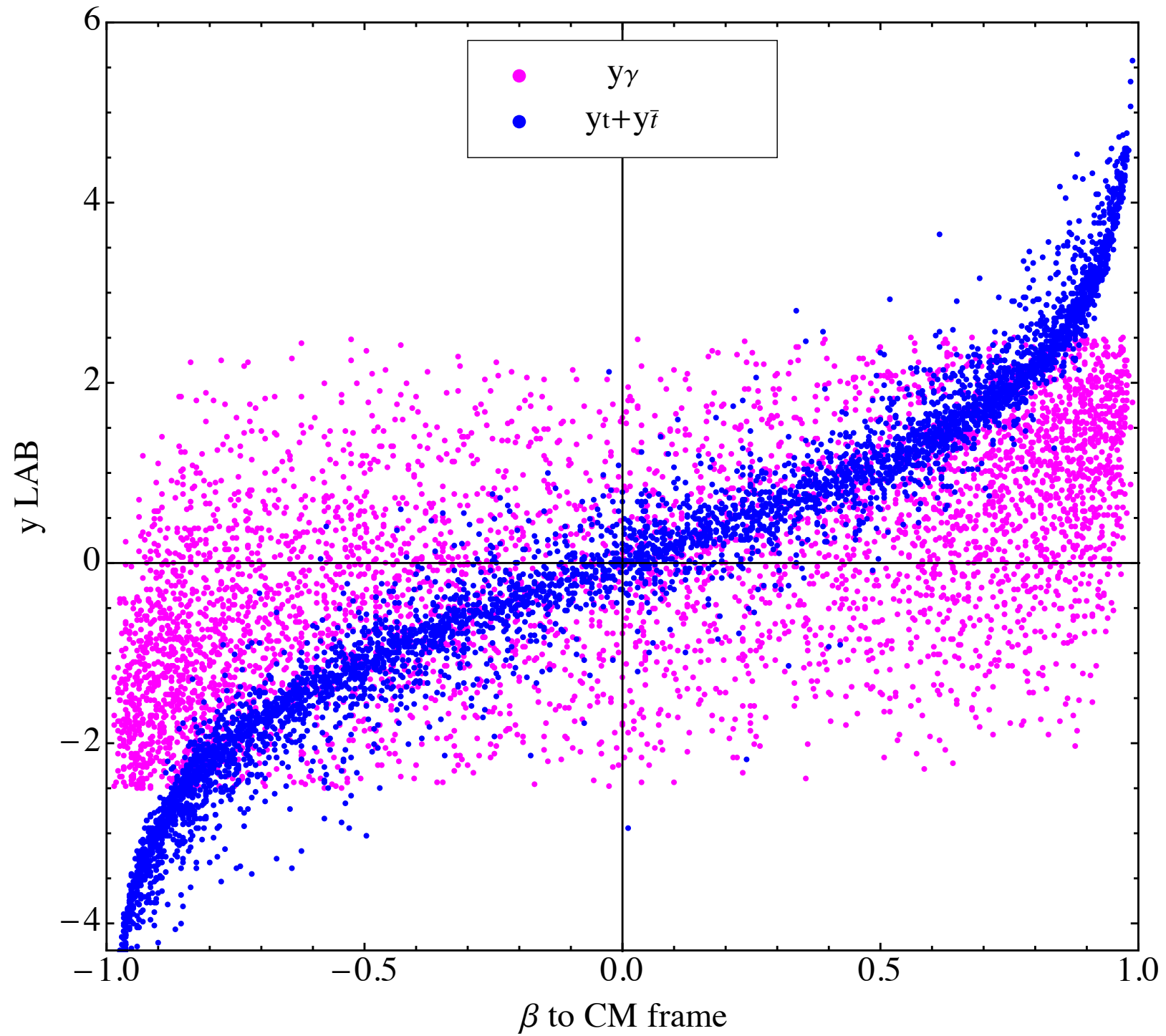


u ub > t tb a ; 300 GeV x 300 GeV



A=40%

A=-29%



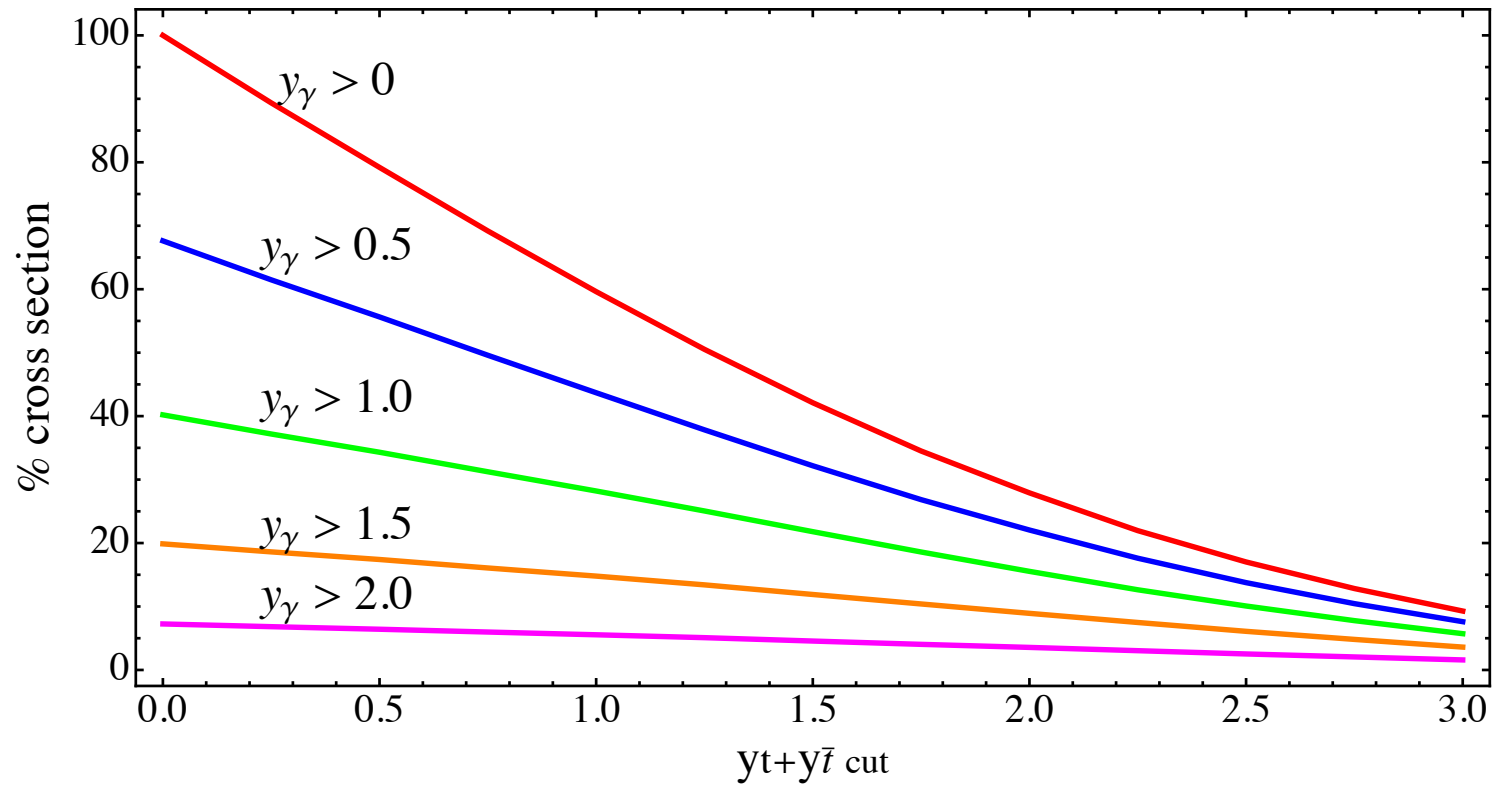
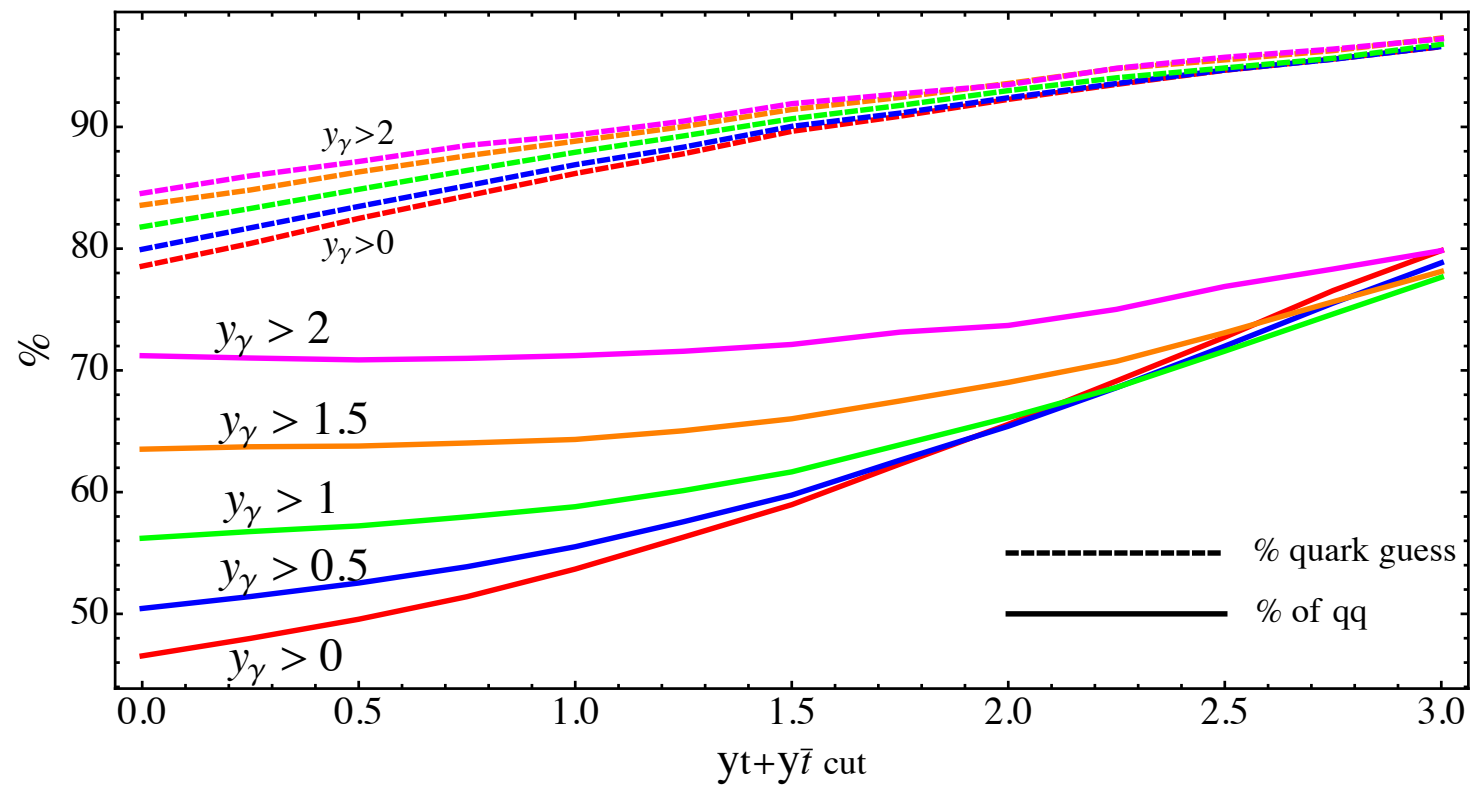


Table prepared using aMC@NLO:

$p p \rightarrow t t^{\sim} a$ [QCD]

* Cut $p_{t\gamma} > 20$ GeV

* Cut $|\gamma_{\gamma}| < 2.5$

* Frizione isolation (params. $E_h=1$, $R=0.7$)
modify cuts.f or v4 update (soon)

Run at 8 TeV

uncertainties shown are pdf and scale

LO

NLO

σ (pb)

A (%)

σ (pb)

A (%)

no further cuts	0.76(30)	-5.5(3)	0.80(6)	- 2.2(3)
$ y_t + y_{\bar{t}} > 1$	0.53(20)	-7.2(4)	0.56(4)	- 2.7(3)
$ y_t + y_{\bar{t}} > 2$	0.34(12)	-9.0(5)	0.36(3)	- 3.7(4)
$m_{t\bar{t}} > 450\text{GeV}$	0.54(20)	-5.6(4)	0.54(4)	- 0.1(3)
$m_{t\bar{t}} > 650\text{GeV}$	0.23(9)	-5.3(4)	0.23(2)	+ 2.2(4)