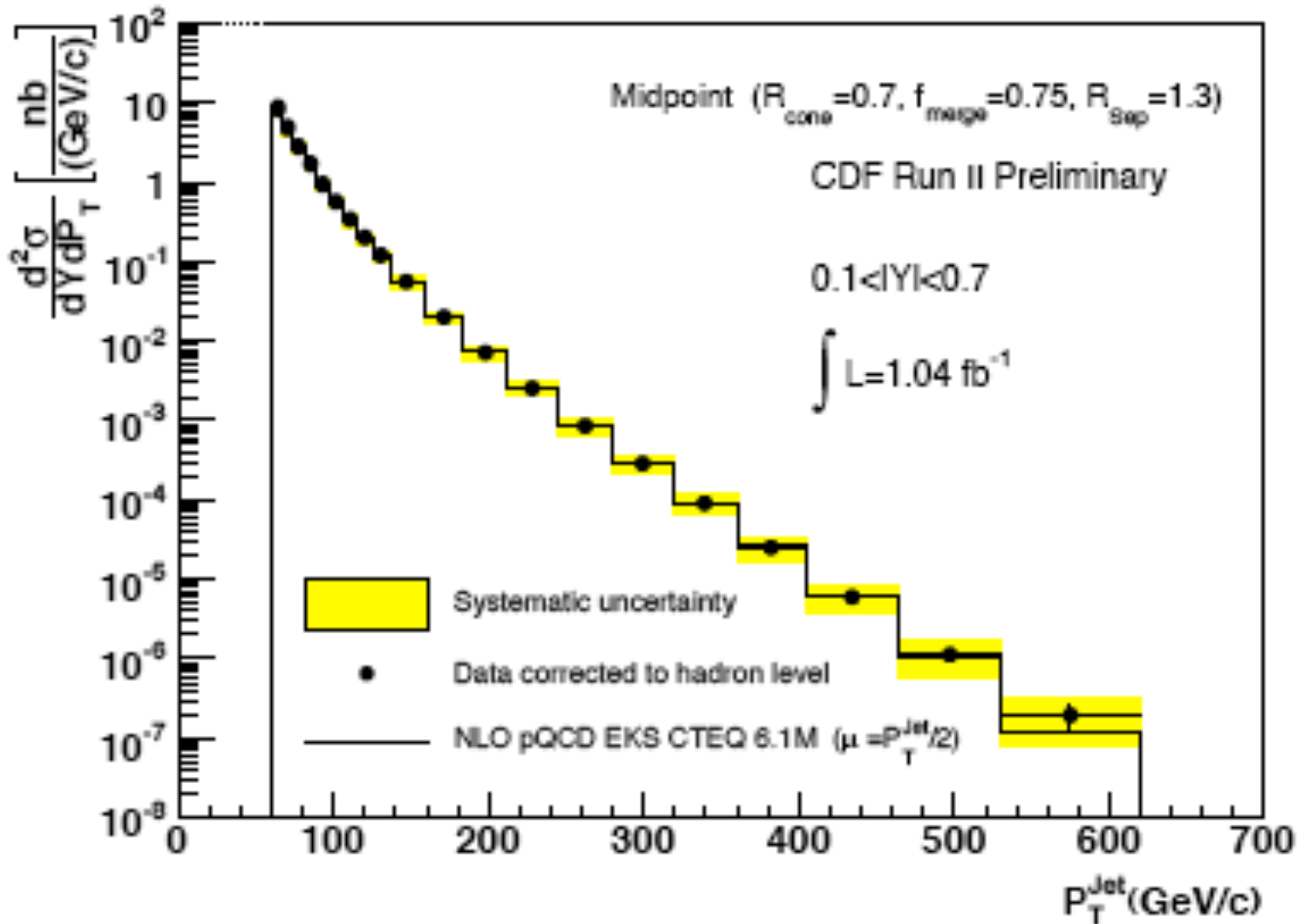
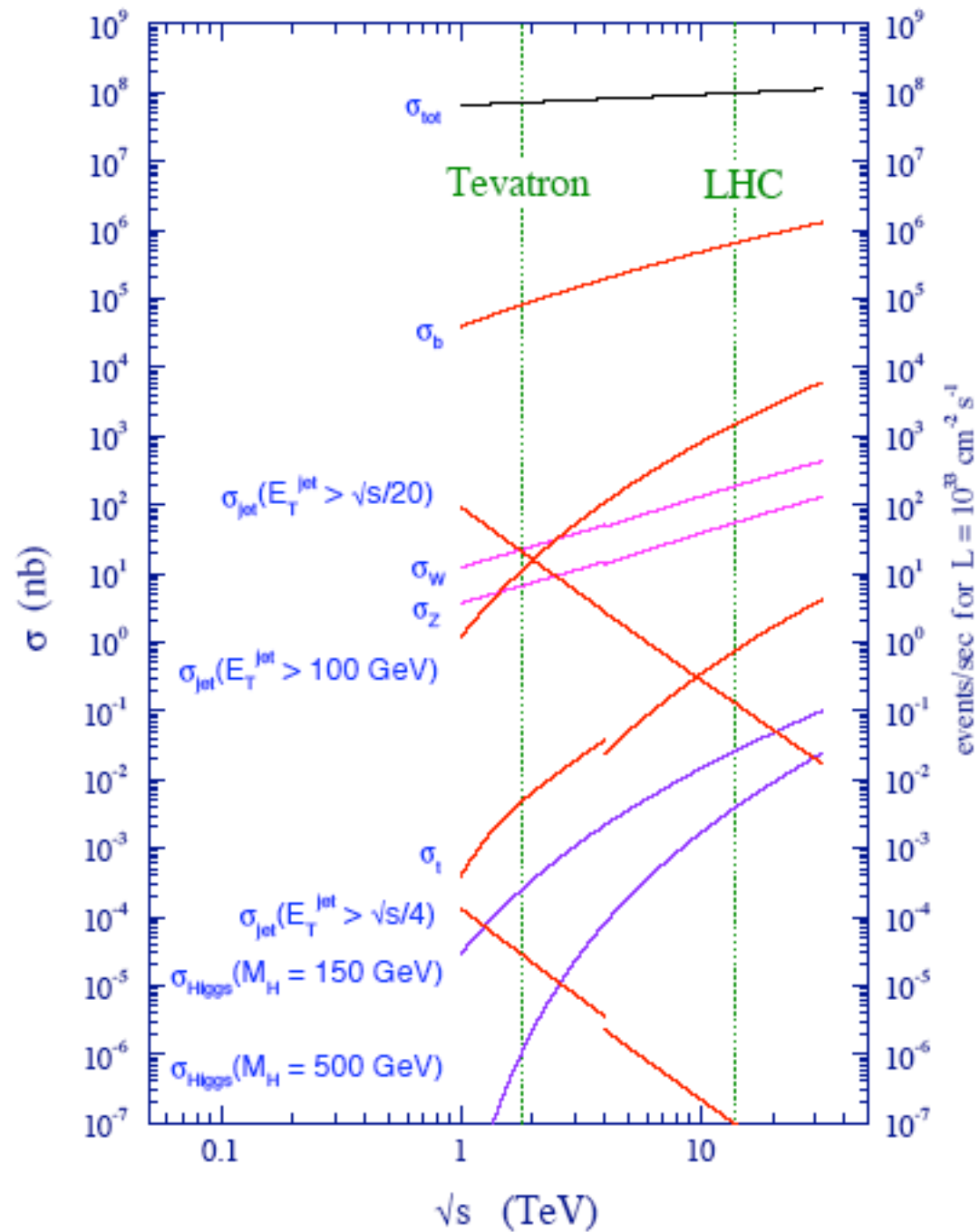


Inclusive jet production at CDF



proton - (anti)proton cross sections



An experimenter's wishlist

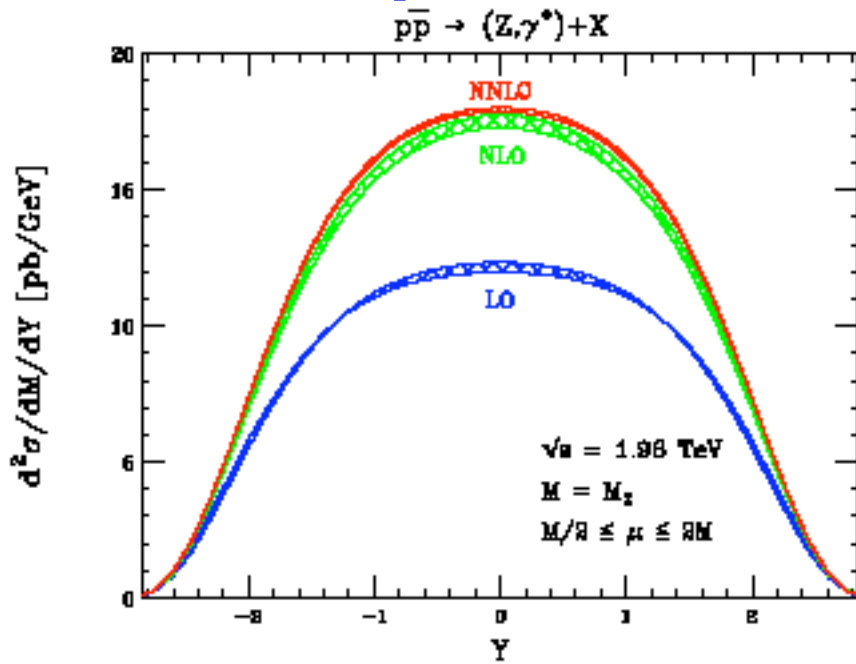
Run II Monte Carlo Workshop

Single Boson	Diboson	Triboson	Heavy Flavour
$W^+ \leq 5j$	$WW^+ \leq 5j$	$WWW^+ \leq 3j$	$t\bar{t}^+ \leq 3j$
$W + b\bar{b} \leq 3j$	$W + b\bar{b}^+ \leq 3j$	$WWW + b\bar{b}^+ \leq 3j$	$t\bar{t} + \gamma^+ \leq 2j$
$W + c\bar{c} \leq 3j$	$W + c\bar{c}^+ \leq 3j$	$WWW + \gamma\gamma^+ \leq 3j$	$t\bar{t} + W^+ \leq 2j$
$Z^+ \leq 5j$	$ZZ^+ \leq 5j$	$Z\gamma\gamma^+ \leq 3j$	$t\bar{t} + Z^+ \leq 2j$
$Z + b\bar{b}^+ \leq 3j$	$Z + b\bar{b}^+ \leq 3j$	$ZZZ^+ \leq 3j$	$t\bar{t} + H^+ \leq 2j$
$Z + c\bar{c}^+ \leq 3j$	$ZZ + c\bar{c}^+ \leq 3j$	$WZZ^+ \leq 3j$	$t\bar{b} \leq 2j$
$\gamma^+ \leq 5j$	$\gamma\gamma^+ \leq 5j$	$ZZZ^+ \leq 3j$	$b\bar{b}^+ \leq 3j$
$\gamma + b\bar{b} \leq 3j$	$\gamma\gamma + b\bar{b} \leq 3j$		single top
$\gamma + c\bar{c} \leq 3j$	$\gamma\gamma + c\bar{c} \leq 3j$		
	$WZ^+ \leq 5j$		
	$WZ + b\bar{b} \leq 3j$		
	$WZ + c\bar{c} \leq 3j$		
	$W\gamma^+ \leq 3j$		
	$Z\gamma^+ \leq 3j$		

Les Houches 2005 Wish List

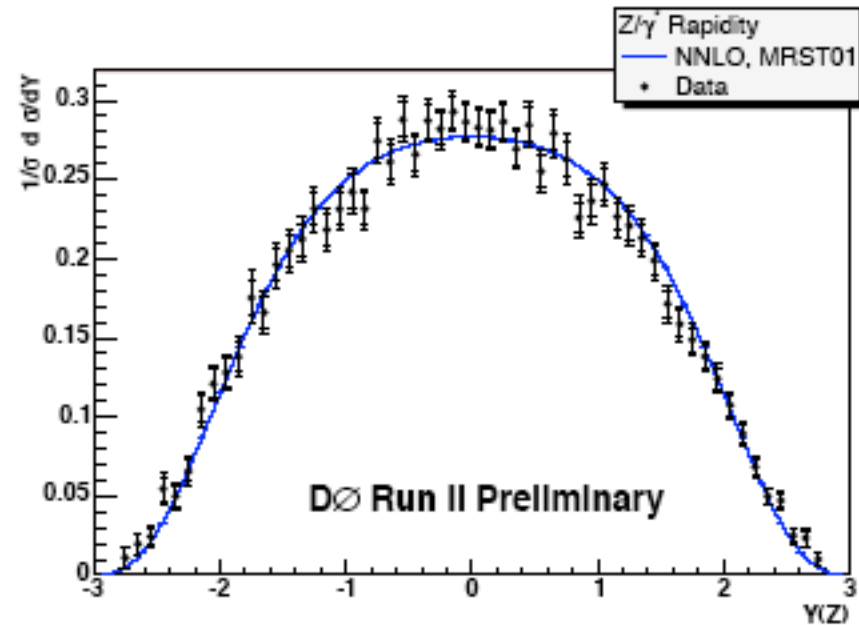
process ($V \in \{Z, W, \gamma\}$)	relevant for
1. $pp \rightarrow V V + \text{jet}$	$t\bar{t}H$, new physics
2. $pp \rightarrow H + 2 \text{ jets}$	H production by vector boson fusion (VBF)
3. $pp \rightarrow t\bar{t} b\bar{b}$	$t\bar{t}H$
4. $pp \rightarrow t\bar{t} + 2 \text{ jets}$	$t\bar{t}H$
5. $pp \rightarrow V V b\bar{b}$	VBF $\rightarrow H \rightarrow VV$, $t\bar{t}H$, new physics
6. $pp \rightarrow V V + 2 \text{ jets}$	VBF $\rightarrow H \rightarrow VV$
7. $pp \rightarrow V + 3 \text{ jets}$	various new physics signatures
8. $pp \rightarrow V V V$	SUSY trilepton searches

Z production at the Tevatron

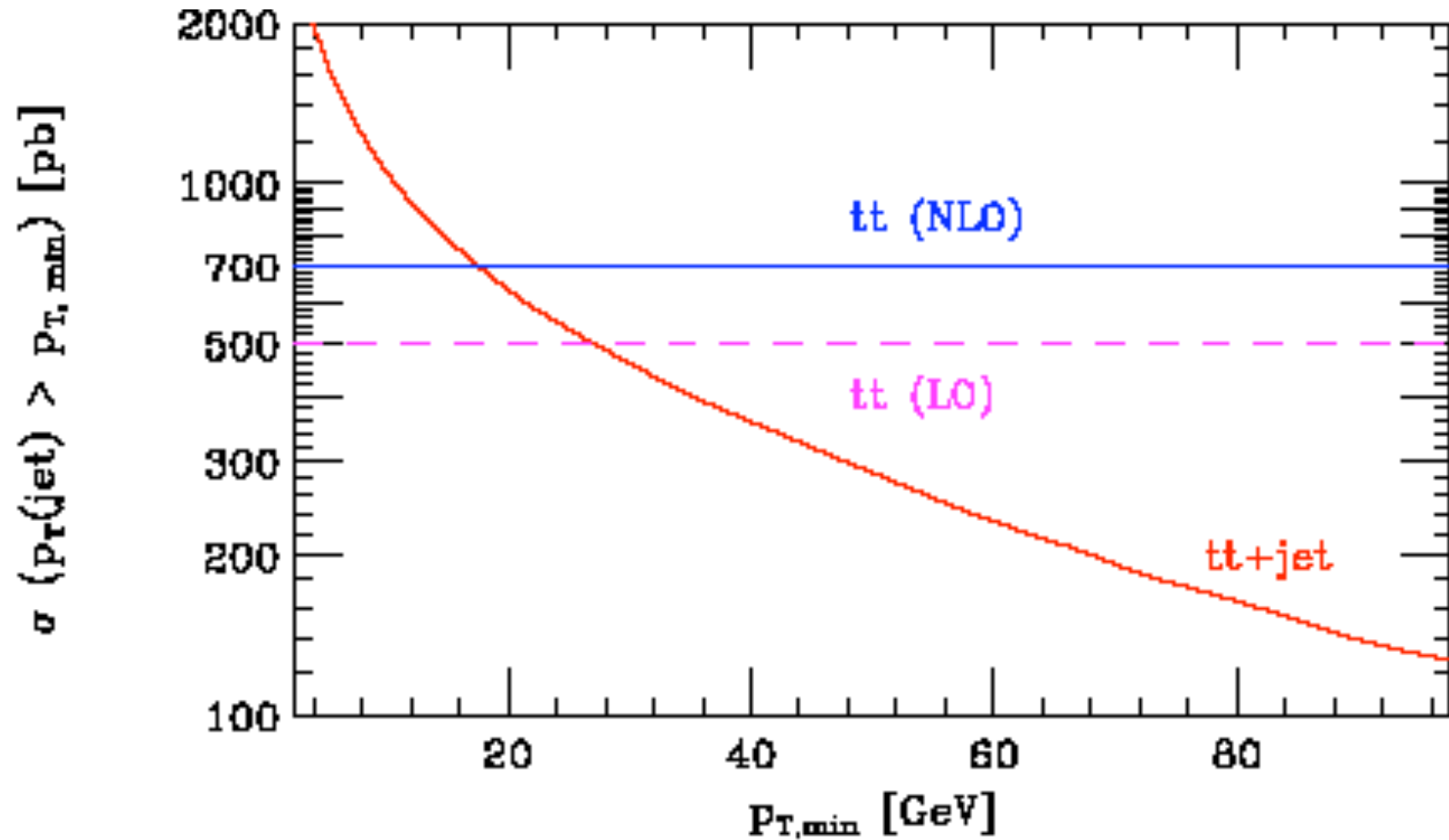


Shape change from LO to NLO

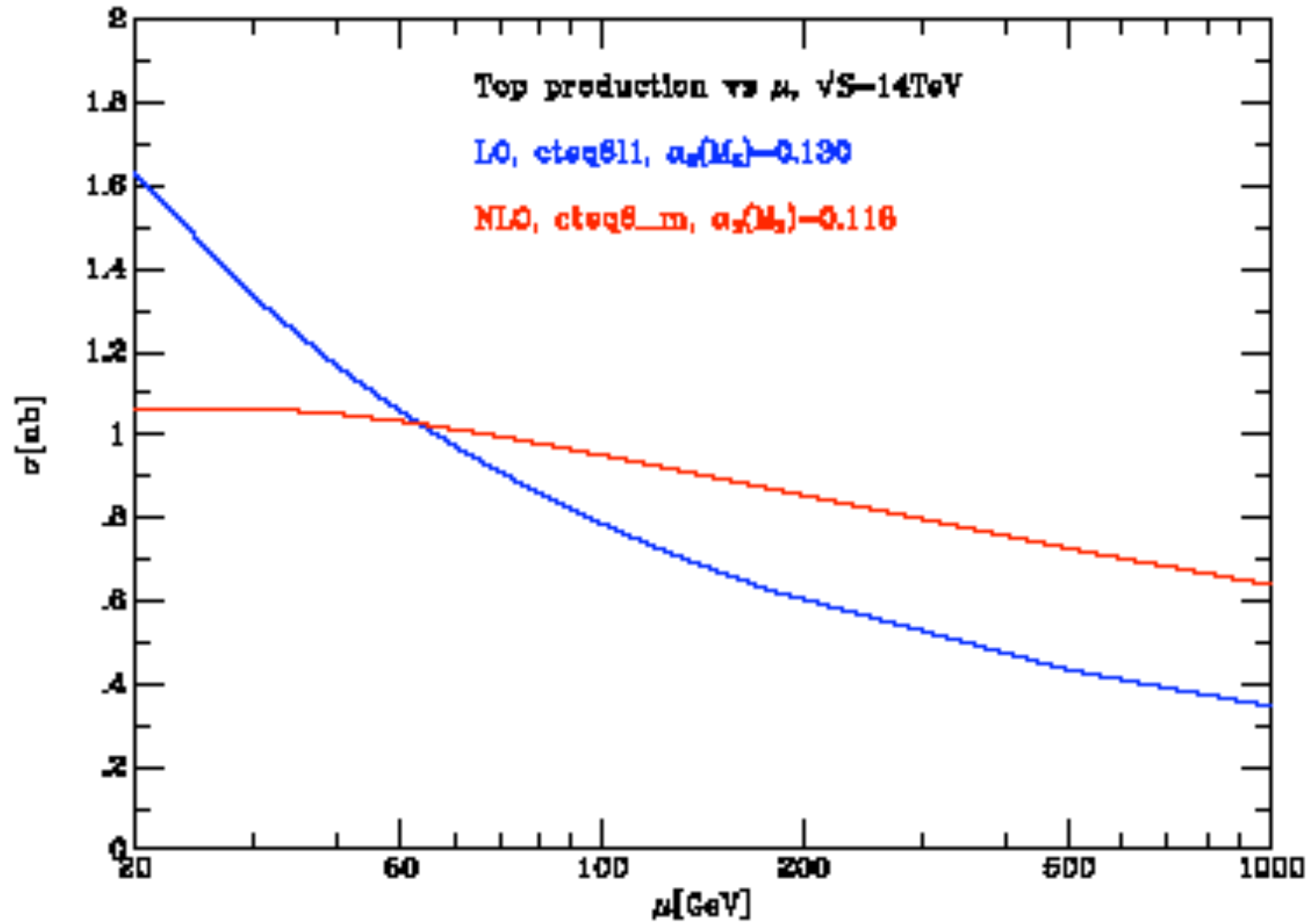
Data match NNLO



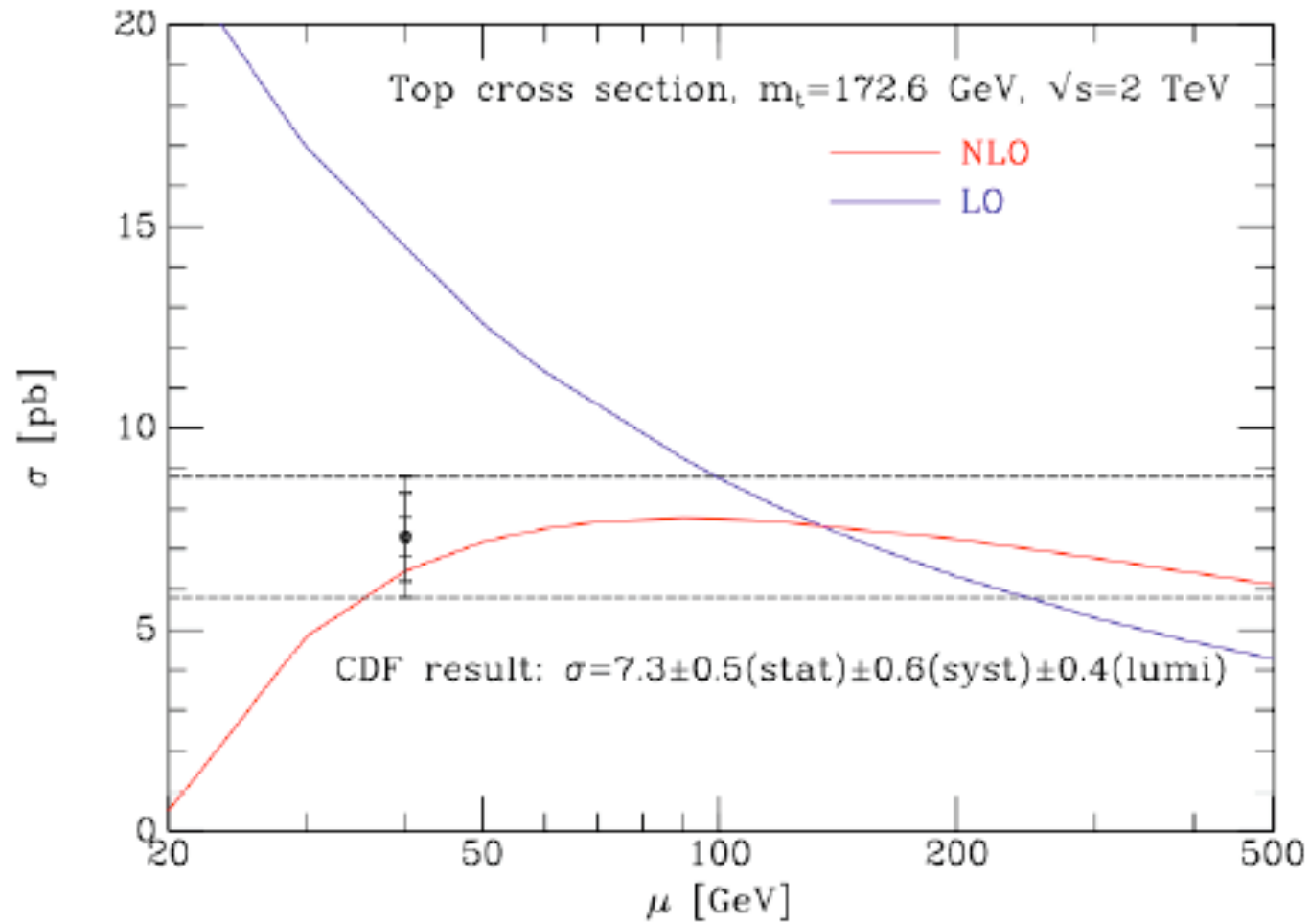
tt and tt+jet production at the LHC



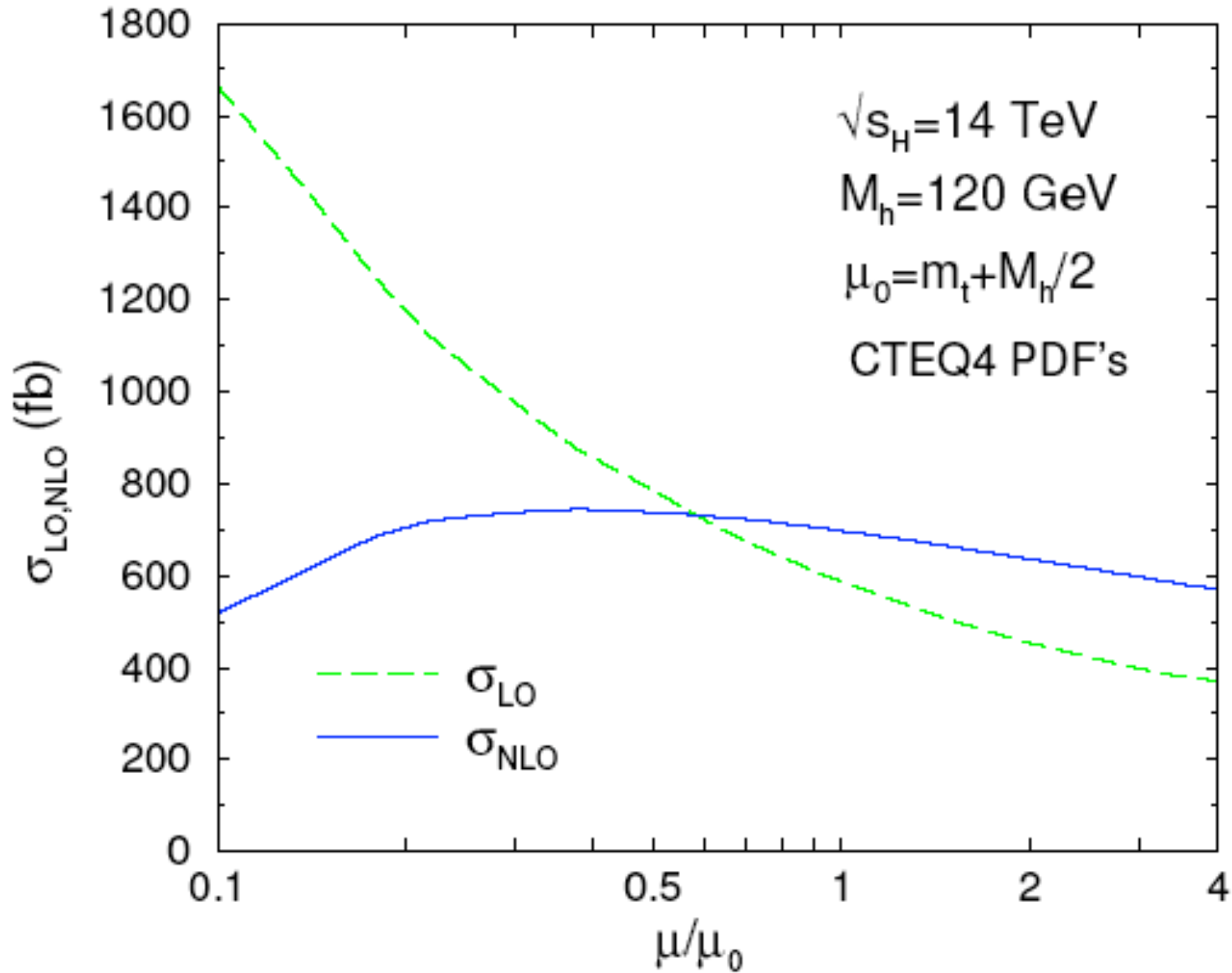
tt production at the LHC



tt production at the Tevatron



ttH production at the LHC



$t\bar{t}H$ production at the Tevatron and LHC

