ALPGEN

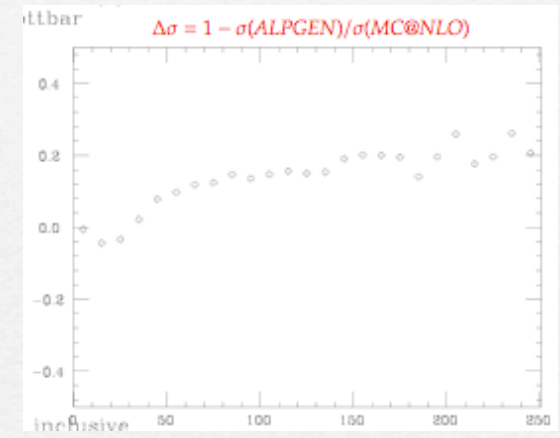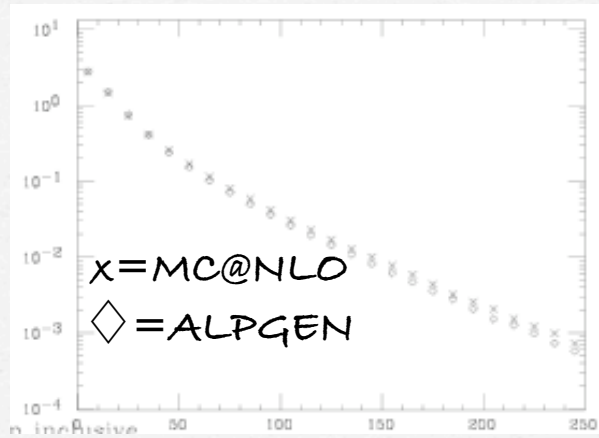## Status report

Recent developments

☐ Several bug fixes (documented on the web page)

☐ Started comparisons with MC@NLO:

   ☐ t tbar production:
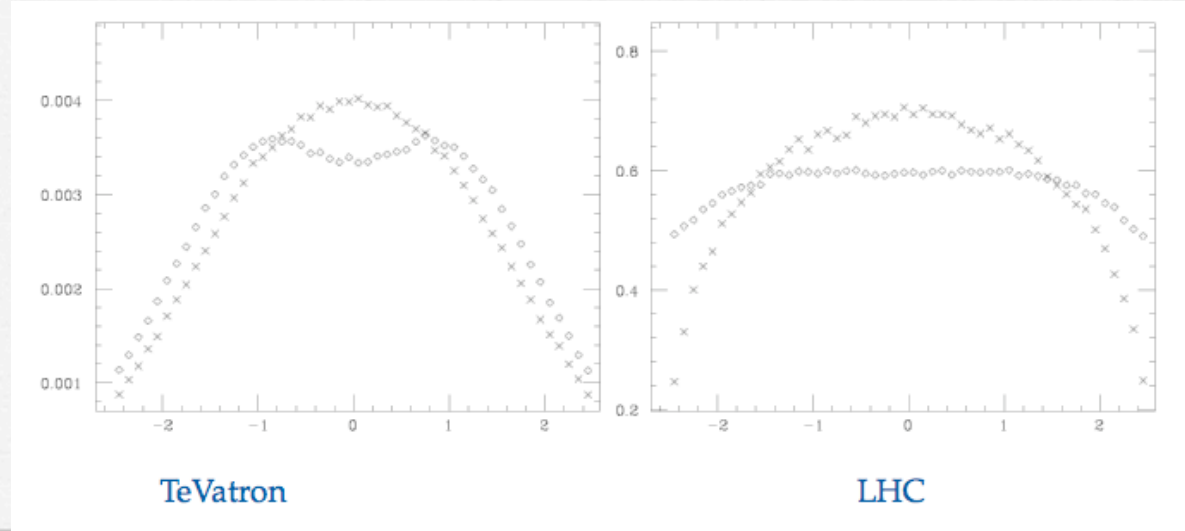
pT(ttpair)

OK:

x=MC@NLO

$\diamondsuit$=ALPGEN

η(leading jet)
[excluding top decay jets]

??? :

ttbar $\Delta\sigma = 1 - \sigma(ALPGEN)/\sigma(MC@NLO)$

TeVatron

LHC

Ongoing work

- ☐ Primary goal:
  - ☐ Release of stable version to meet ATLAS freezing deadline

- ☐ More studies of MLM merging
  - ☐ effect of generation/matching cuts
  - ☐ use of kt jets instead of cone jets for matching
- ☐ More comparisons with MC@NLO
- ☐ More comparisons with Sherpa and Ariadne

Wish list

- ☐ Inclusion of LHAPDF
- ☐ CEDAR