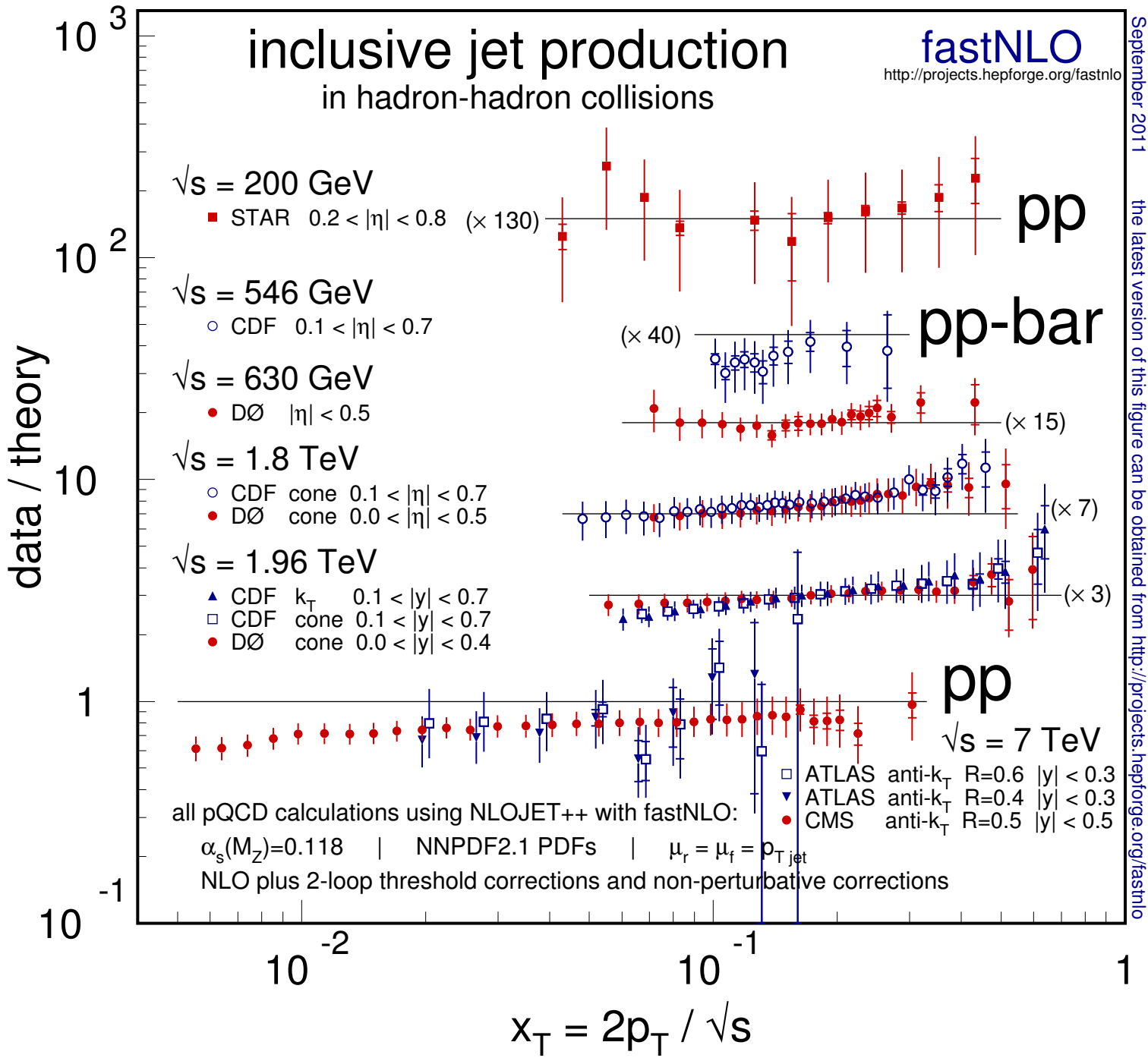
inclusive jet production
in hadron-hadron collisions
fastNLO
http://projects.hepforge.org/fastnlo
√s = 200 GeV
STAR 0.2 < |η| < 0.8
(× 130)
pp
√s = 546 GeV
CDF 0.1 < |η| < 0.7
pp-bar
(× 40)
√s = 630 GeV
DØ |η| < 0.5
(× 15)
√s = 1.8 TeV
CDF cone 0.1 < |η| < 0.7
DØ cone 0.0 < |η| < 0.5
(× 7)
√s = 1.96 TeV
CDF kT 0.1 < |y| < 0.7
CDF cone 0.1 < |y| < 0.7
DØ cone 0.0 < |y| < 0.4
(× 3)
pp
√s = 7 TeV
ATLAS anti-kT R=0.6 |y| < 0.3
ATLAS anti-kT R=0.4 |y| < 0.3
CMS anti-kT R=0.5 |y| < 0.5
all pQCD calculations using NLOJET++ with fastNLO:
αs(MZ)=0.118 | NNPDF2.1 PDFs | μr = μf = pT jet
NLO plus 2-loop threshold corrections and non-perturbative corrections
data / theory
xT = 2pT / √s
September 2011
the latest version of this figure can be obtained from http://projects.hepforge.org/fastnlo