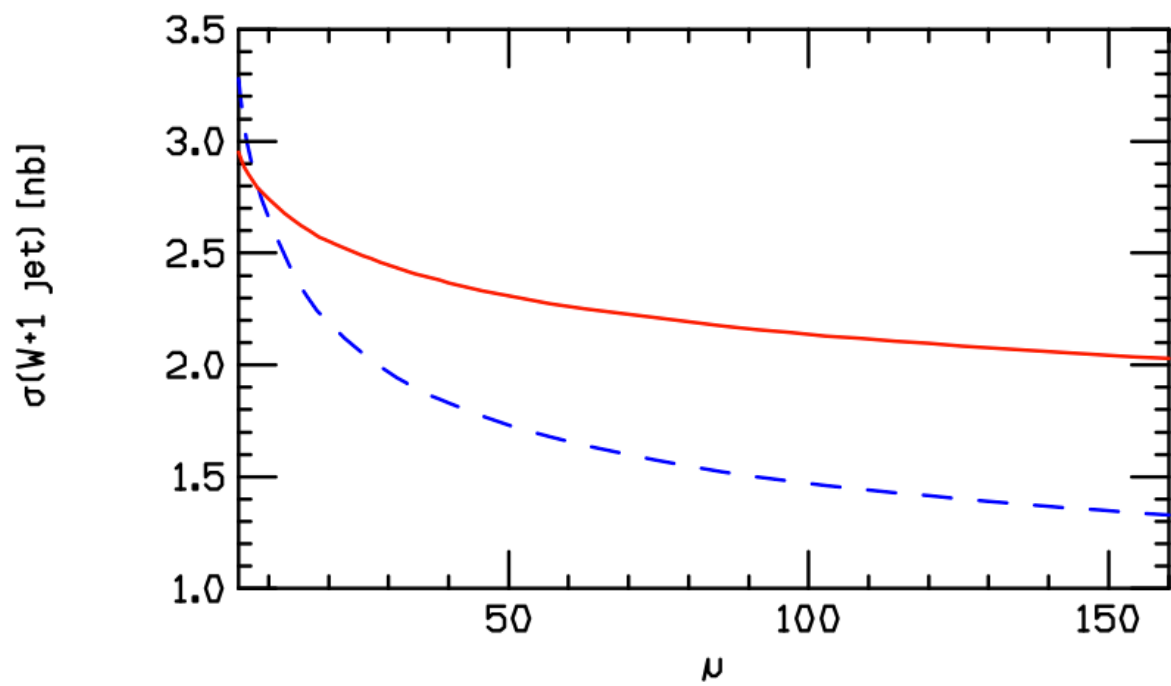
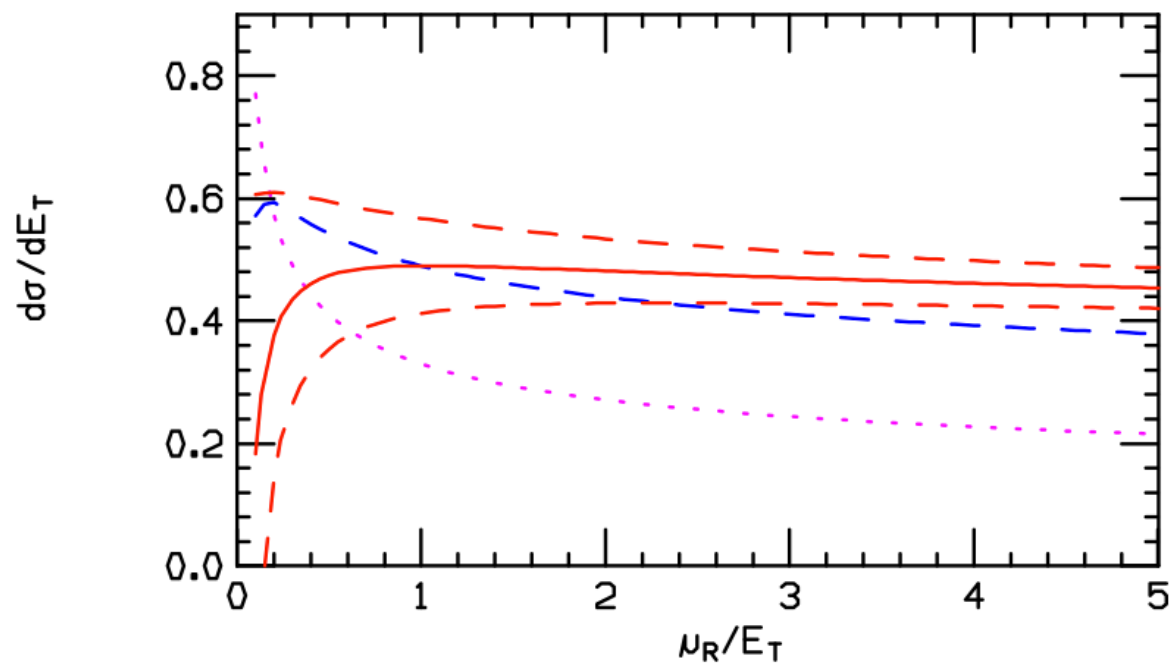
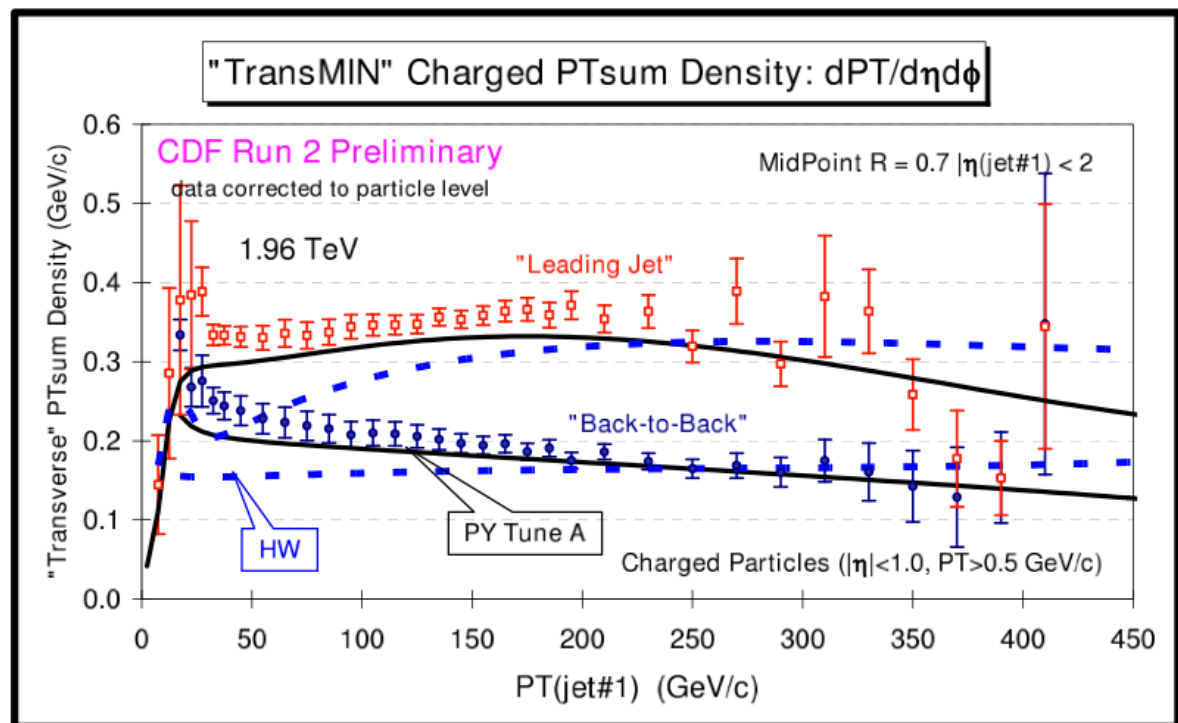
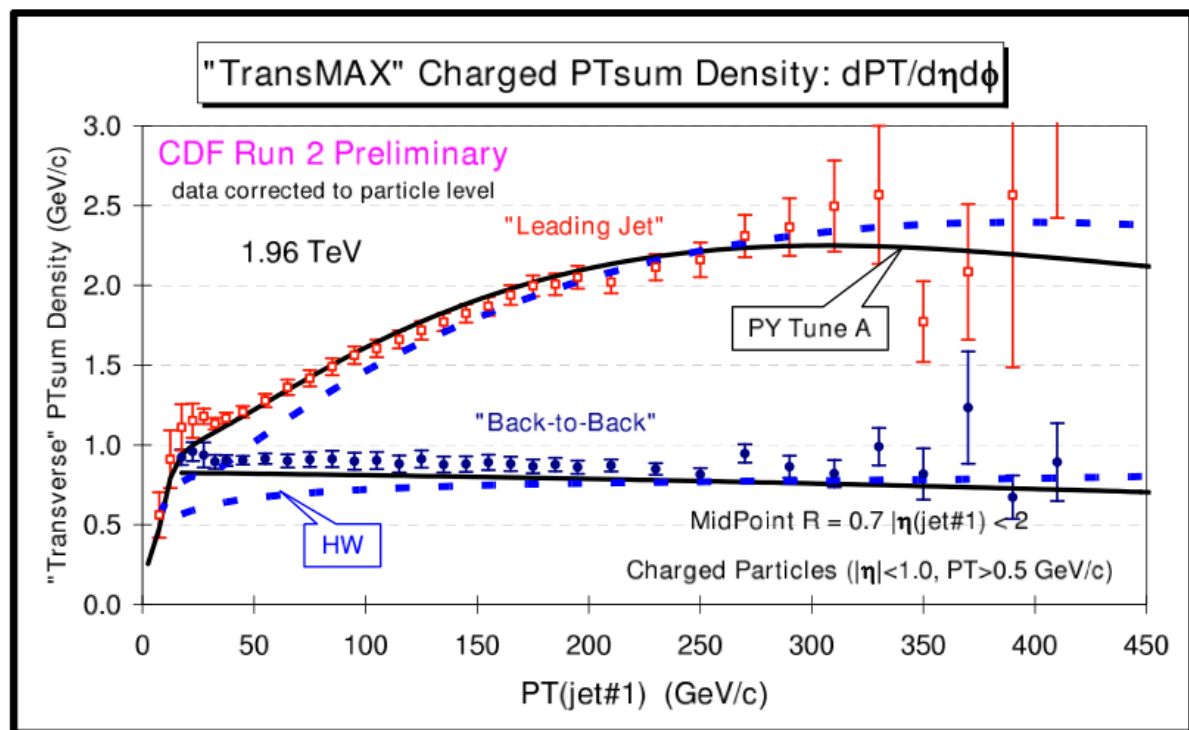
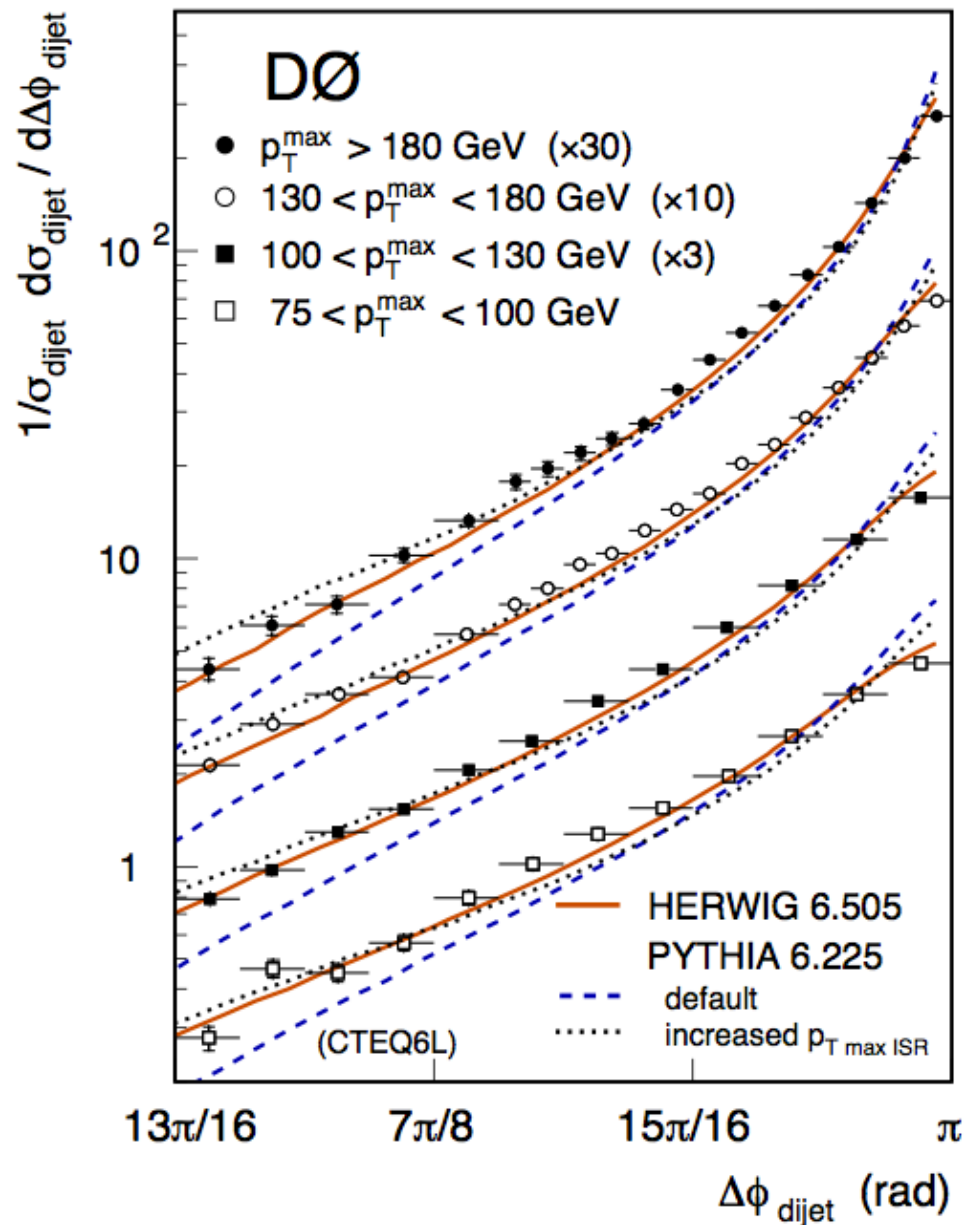
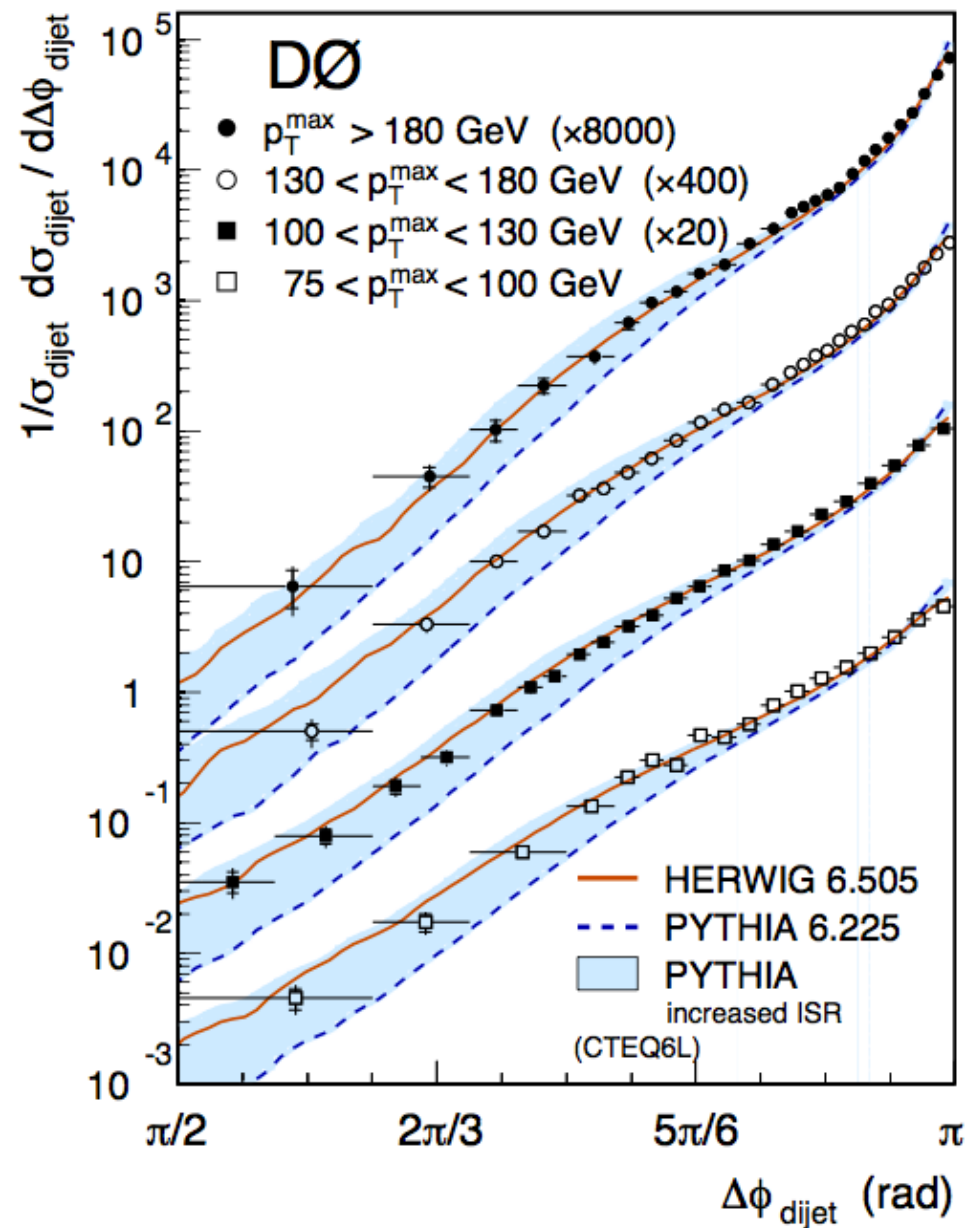


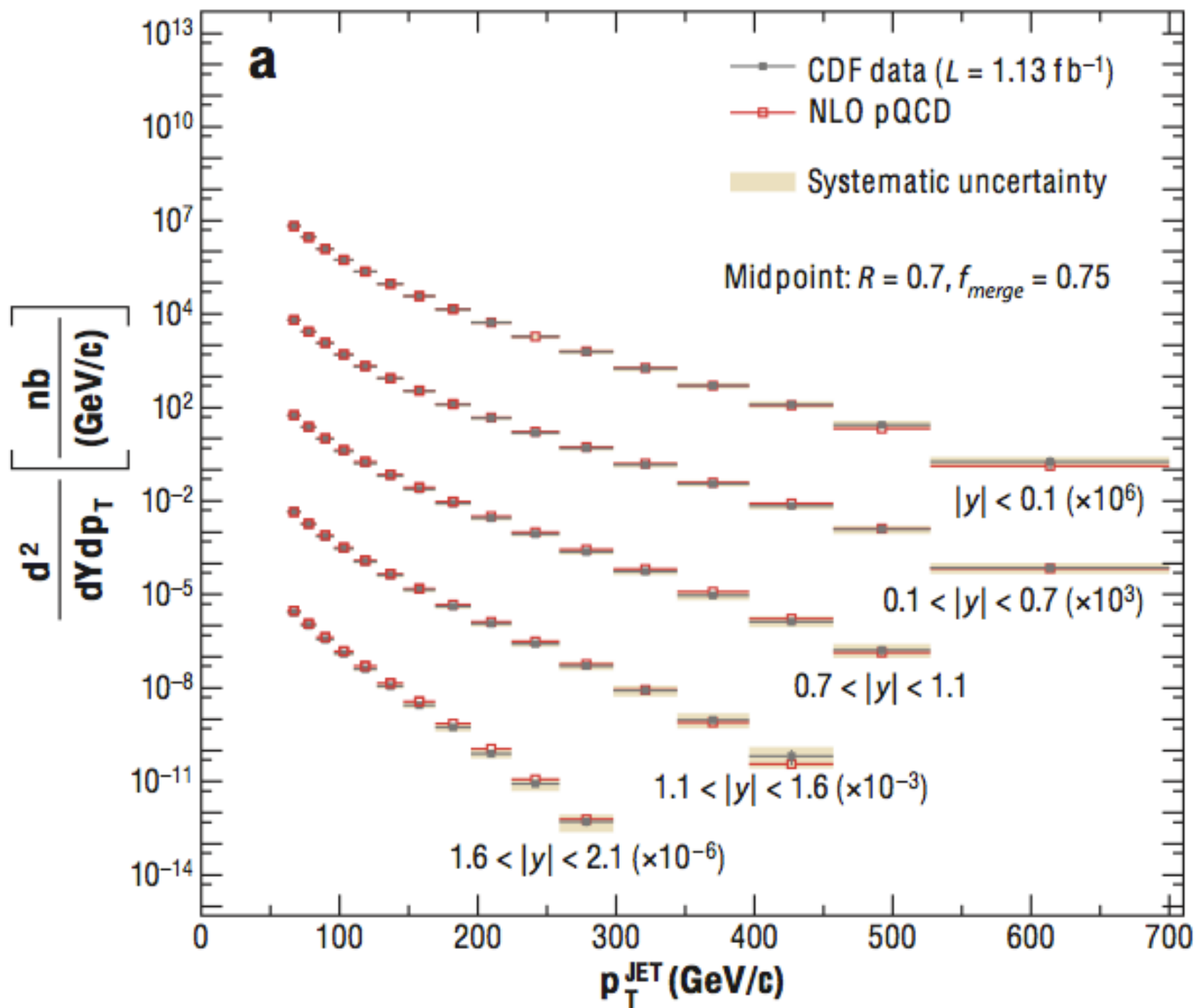


Process	Typical scales		Tevatron K -factor			LHC K -factor		
	μ_0	μ_1	$\mathcal{K}(\mu_0)$	$\mathcal{K}(\mu_1)$	$\mathcal{K}'(\mu_0)$	$\mathcal{K}(\mu_0)$	$\mathcal{K}(\mu_1)$	$\mathcal{K}'(\mu_0)$
W	m_W	$2m_W$	1.33	1.31	1.21	1.15	1.05	1.15
$W + 1 \text{ jet}$	m_W	$\langle p_T^{\text{jet}} \rangle$	1.42	1.20	1.43	1.21	1.32	1.42
$W + 2 \text{ jets}$	m_W	$\langle p_T^{\text{jet}} \rangle$	1.16	0.91	1.29	0.89	0.88	1.10
$t\bar{t}$	m_t	$2m_t$	1.08	1.31	1.24	1.40	1.59	1.48
$b\bar{b}$	m_b	$2m_b$	1.20	1.21	2.10	0.98	0.84	2.51
Higgs via WBF	m_H	$\langle p_T^{\text{jet}} \rangle$	1.07	0.97	1.07	1.23	1.34	1.09

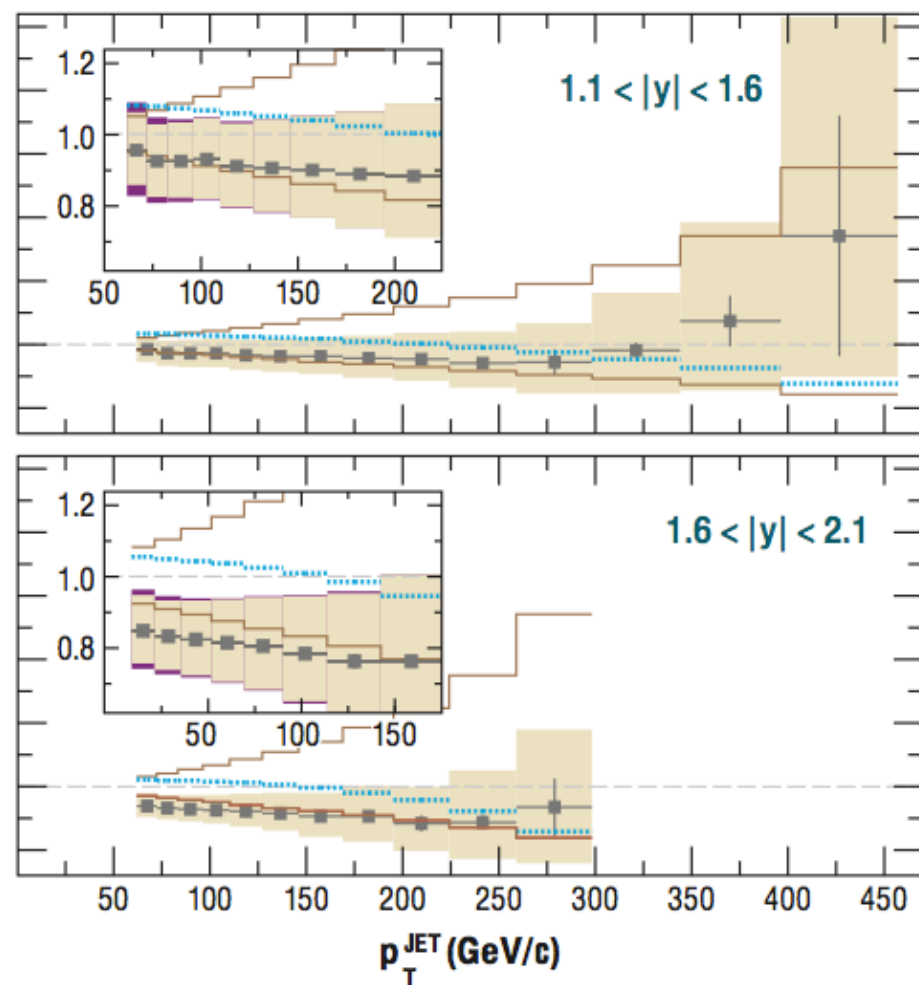
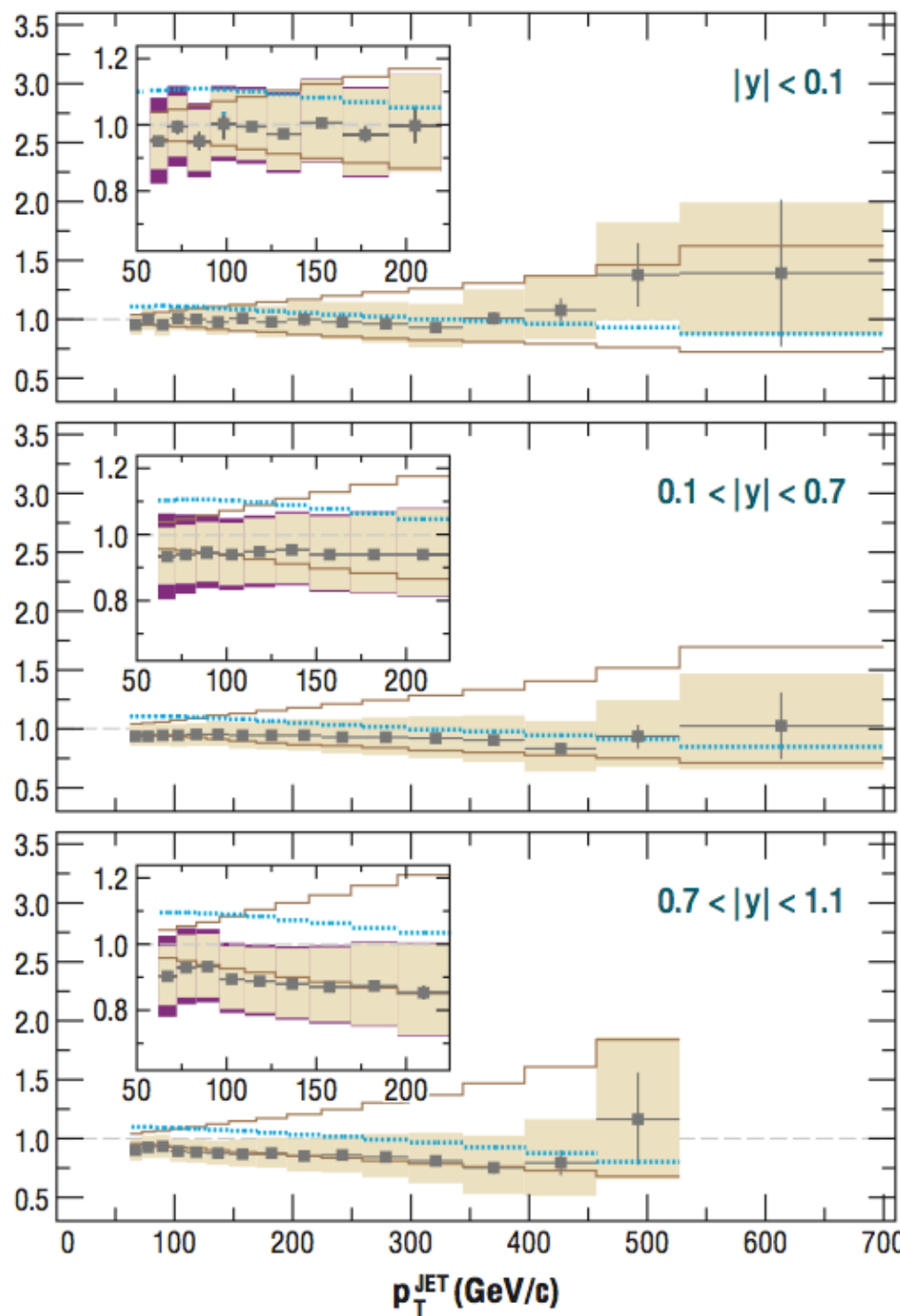




CDF Run II inclusive jet cross section using midpoint algorithm



data/theory



- CDF data (1.13 fb^{-1})/NLO
- MRST2004/CTEQ6.1M
- PDF uncertainty
- Systematic uncertainty
- Including hadronization and UE

Midpoint: $R = 0.7$, $f_{\text{merge}} = 0.75$

