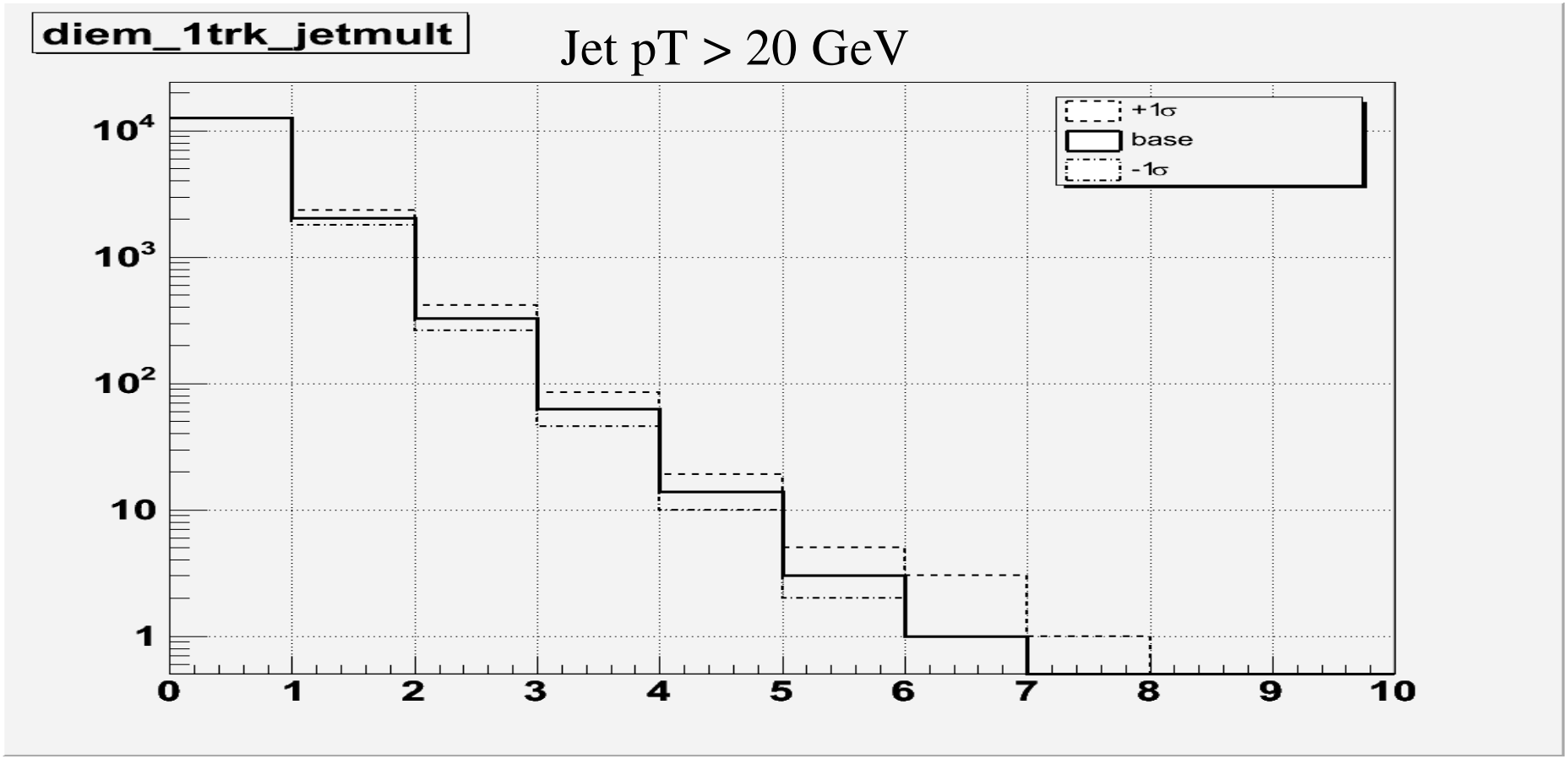
Effect of JES 5.1 +-1sigma error variation on inclusive jet multiplicities

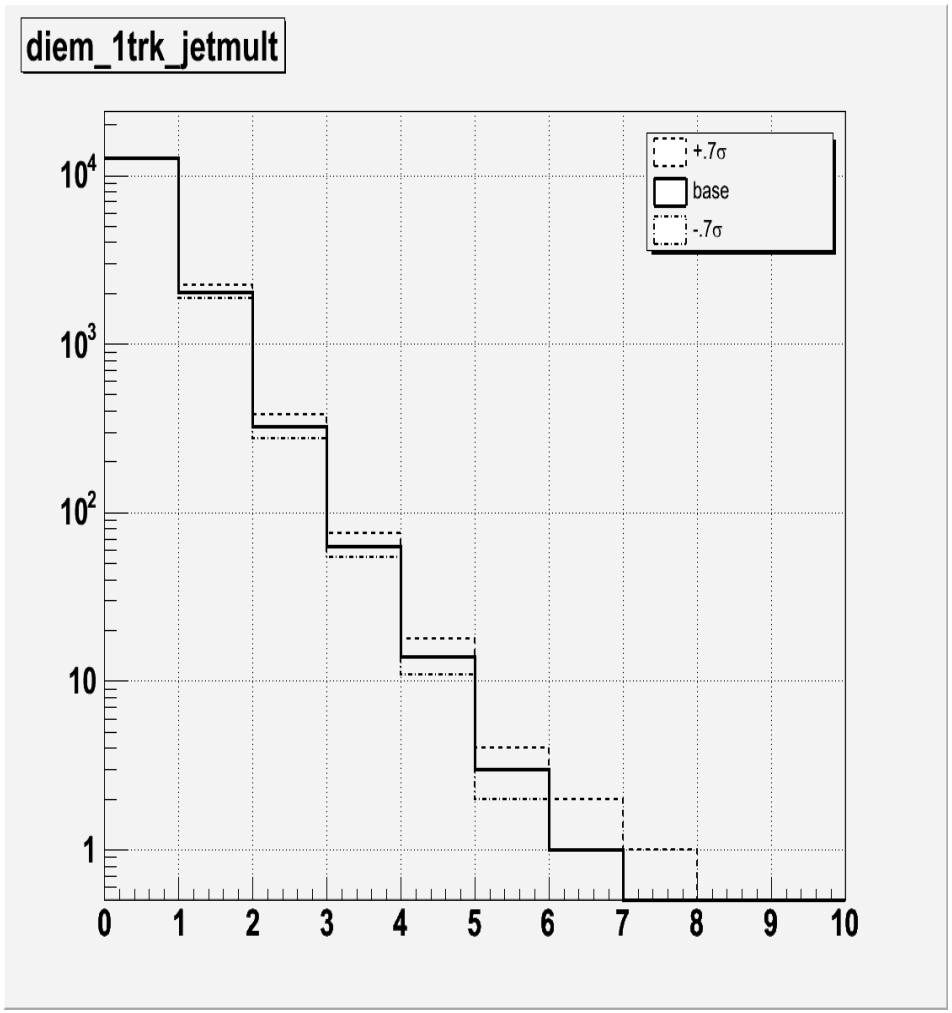


Inclusive # of jets	0	1	2	3	4	5	6	7
# events (+1sigma)	12,718	2,350 (+16%)	414 (+27%)	85 (+35%)	19 (+36%)	5 (+67%)	3	1
# events (base value)	12,718	2,032	326	63	14	3	1	0
# events (-1sigma)	12,718	1,804 (-11%)	264 (-19%)	46 (-27%)	10 (-29%)	2 (-33%)	1	0

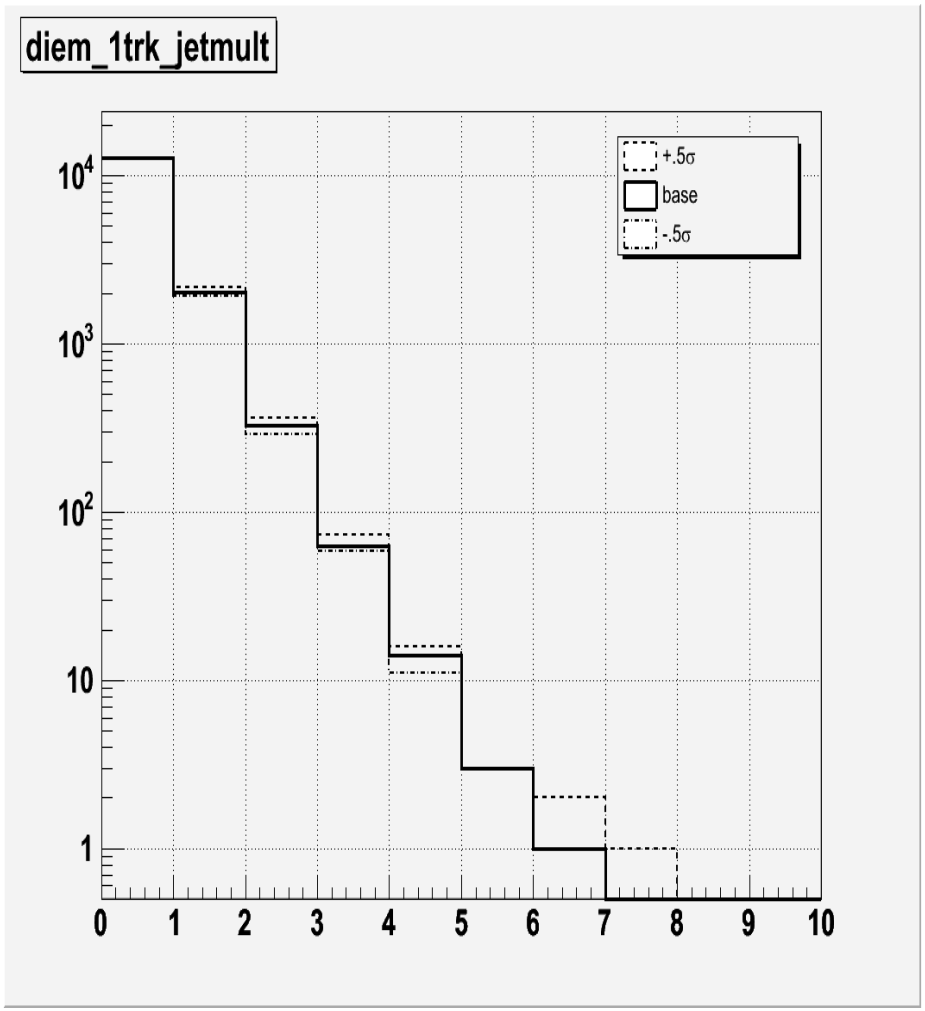
Estimate for JES 5.3 errors

For uncorrected energy (not ET) <50GeV the JES 5.3 error is approx 70% of JES 5.1 error, for >50GeV it's approx 50%.

+-0.7 x JES error



+-0.5 x JES error



Summary table

Inclusive # of jets	0	1	2	3	4	5	6	7
# events (**+1sigma**)	12,718	2,350 (+16%)	414 (+27%)	85 (+35%)	19 (+36%)	5 (+67%)	3	1
# events (**+.7sigma**)	12,718	2,254 (+11%)	384 (+18%)	75 (+19%)	18 (+29%)	4 (+33%)	2	1
# events (**+.5sigma**)	12,718	2,178 (+7%)	361 (+11%)	73 (+16%)	16 (+14%)	3 (+0%)	2	1
# events (base value)	**12,718**	**2,032**	**326**	**63**	**14**	**3**	**1**	**0**
# events (-**.5sigma**)	12,718	1,906 (-6%)	290 (-11%)	59 (-6%)	11 (-21%)	3 (-0%)	1	0
# events (-**.7sigma**)	12,718	1,874 (-8%)	277 (-15%)	54 (-14%)	11 (-21%)	2 (-33%)	1	0
# events (**-1sigma**)	12,718	1,804 (-11%)	264 (-19%)	46 (-27%)	10 (-29%)	2 (-33%)	1	0