

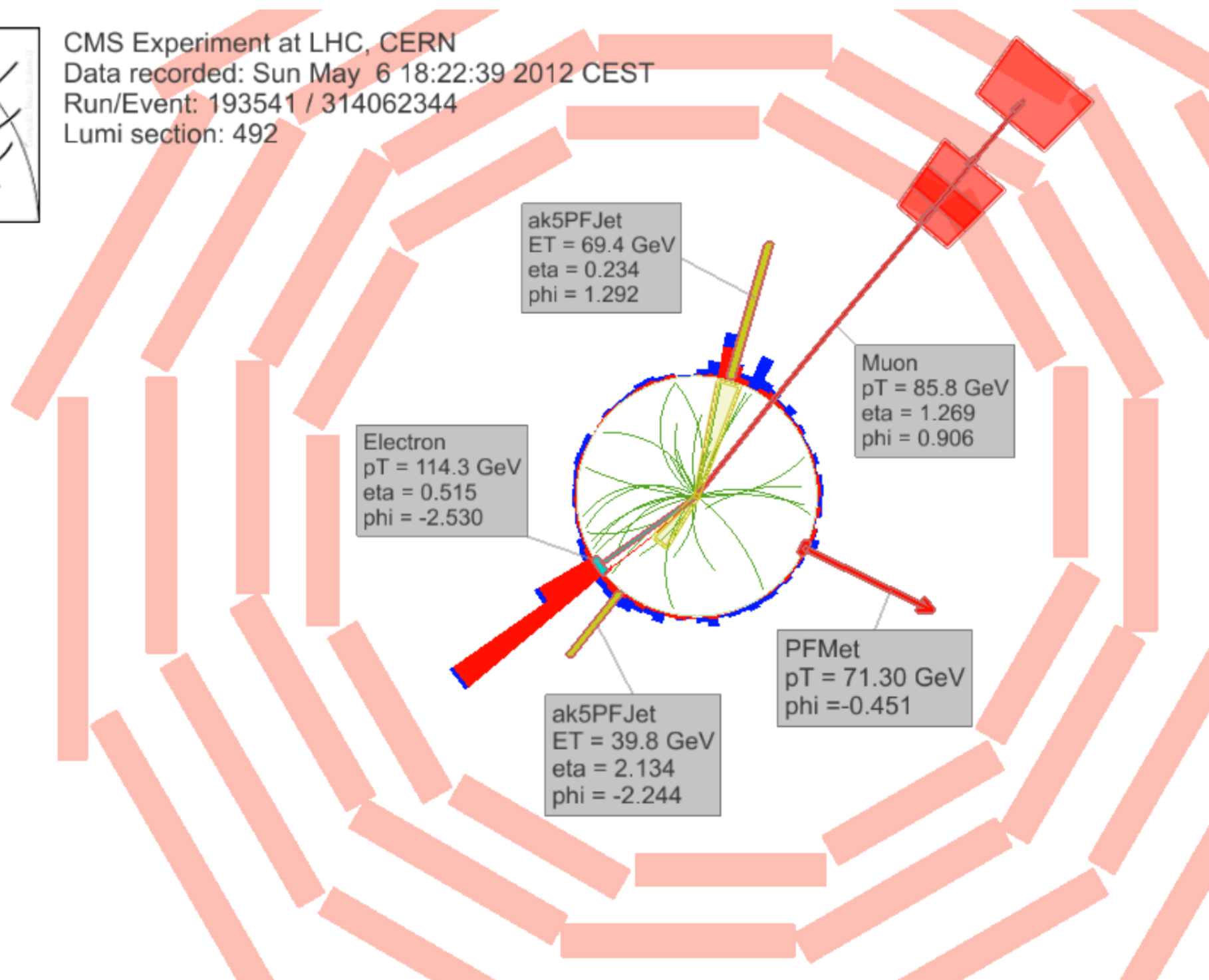


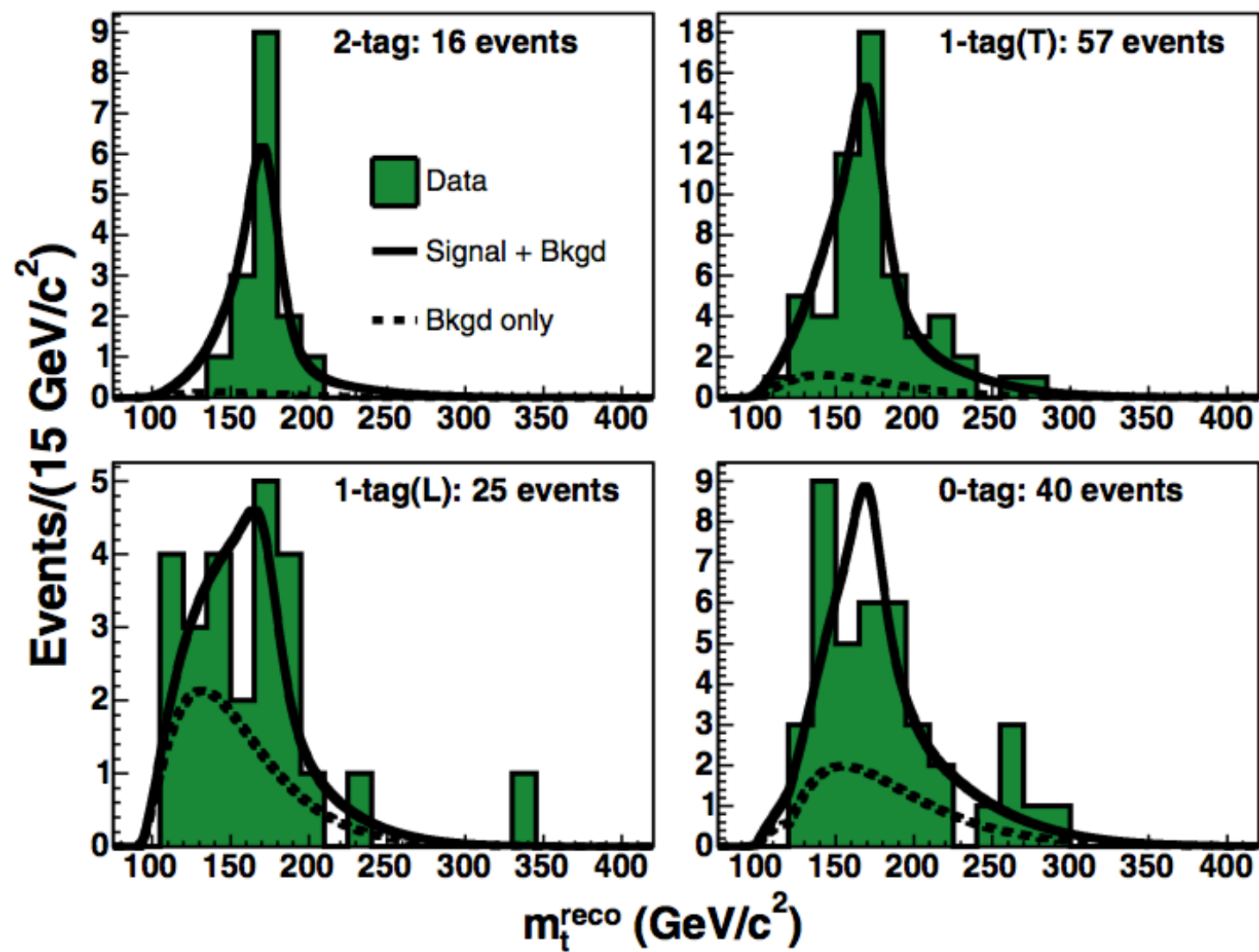
CMS Experiment at LHC, CERN

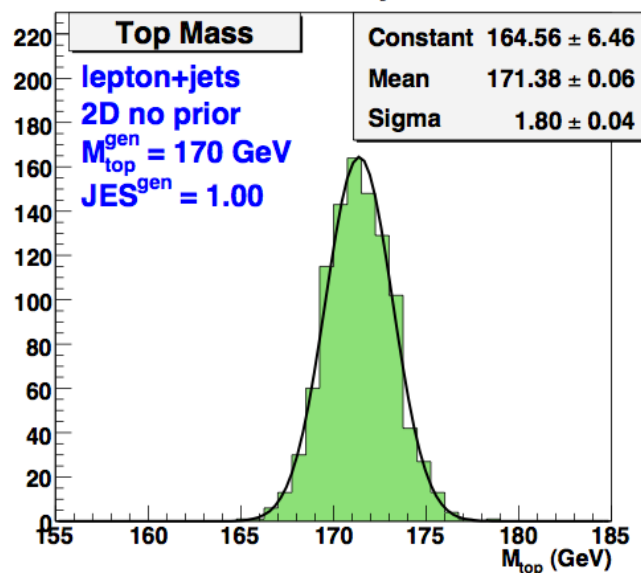
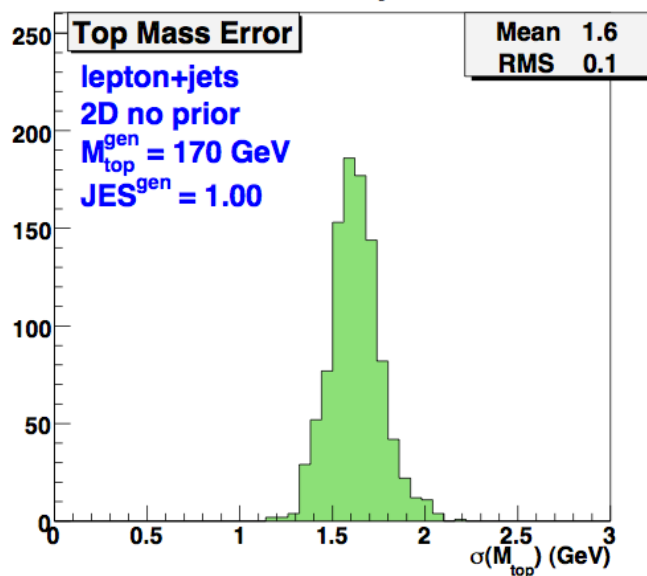
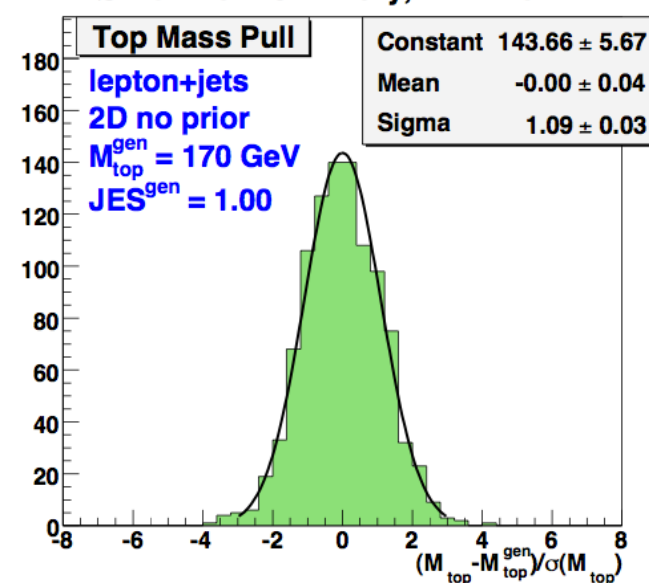
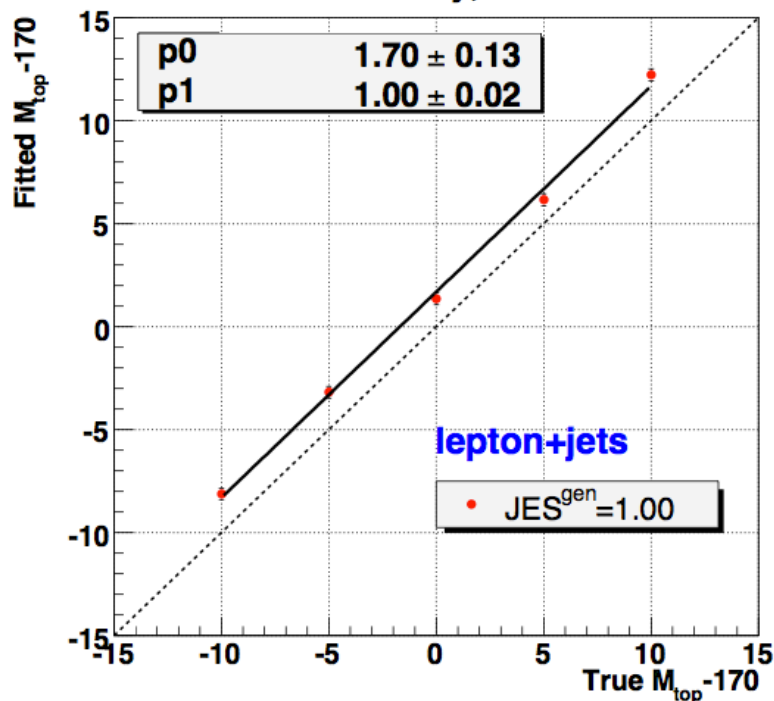
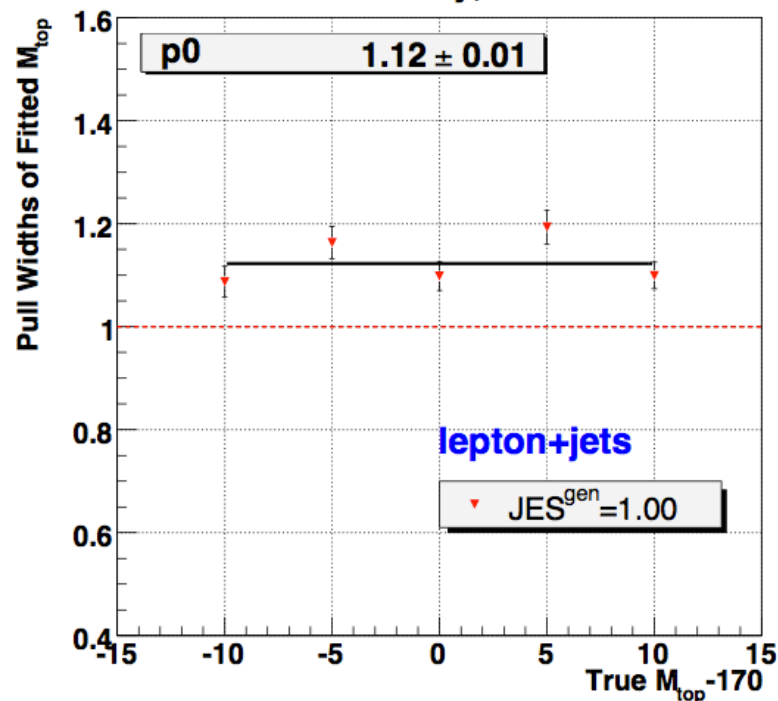
Data recorded: Sun May 6 18:22:39 2012 CEST

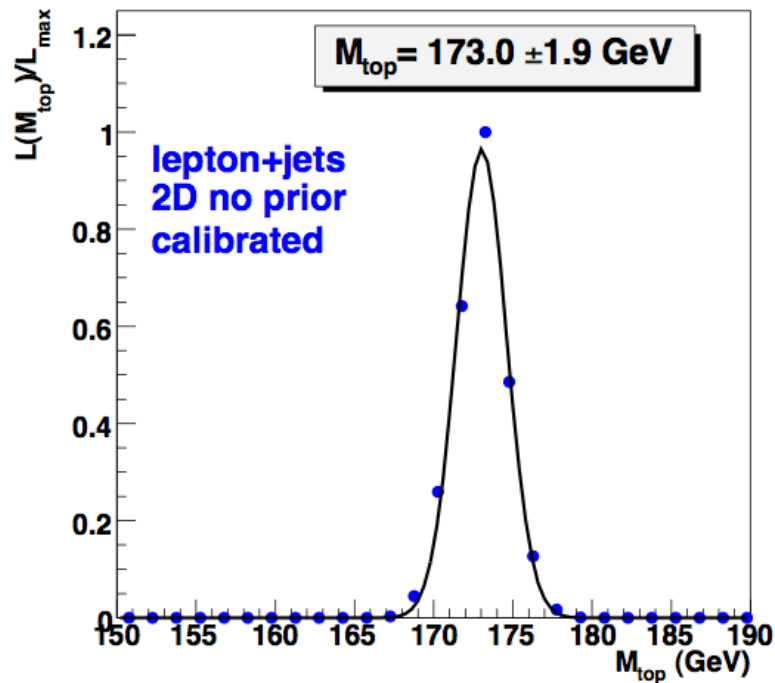
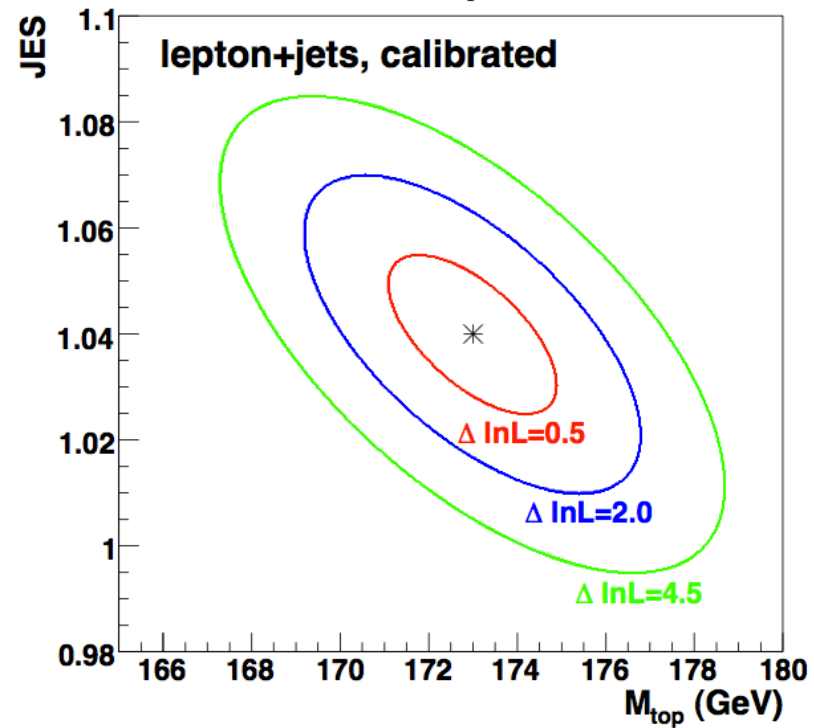
Run/Event: 193541 / 314062344

Lumi section: 492

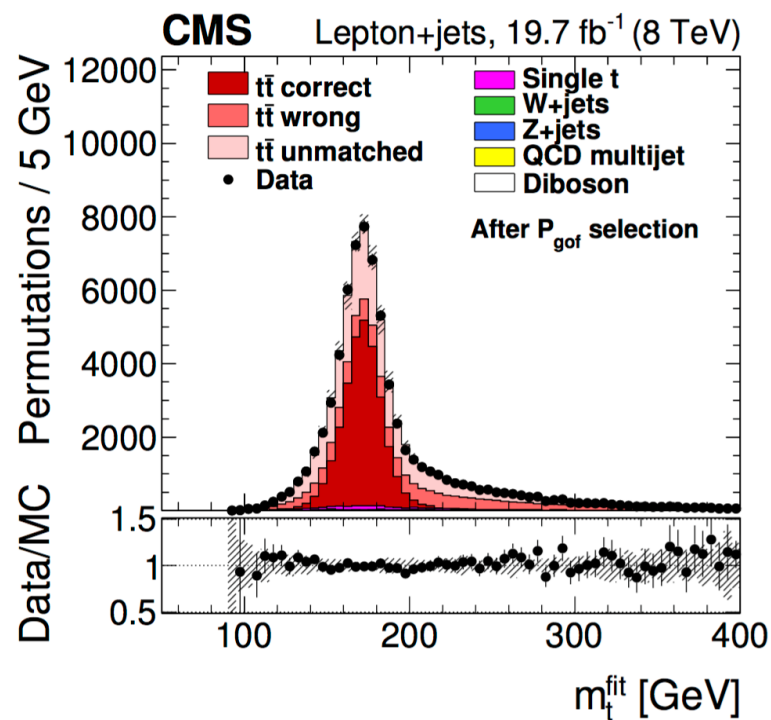
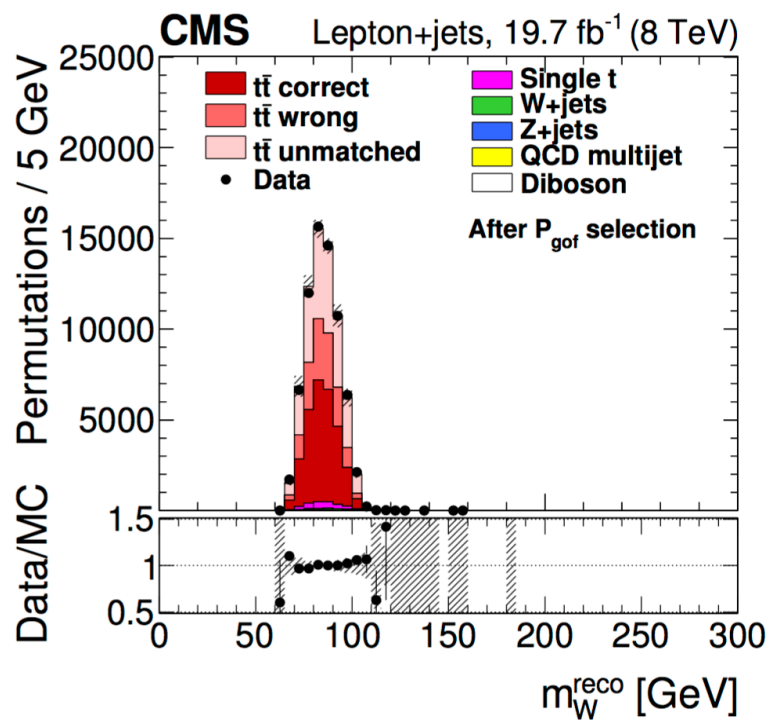
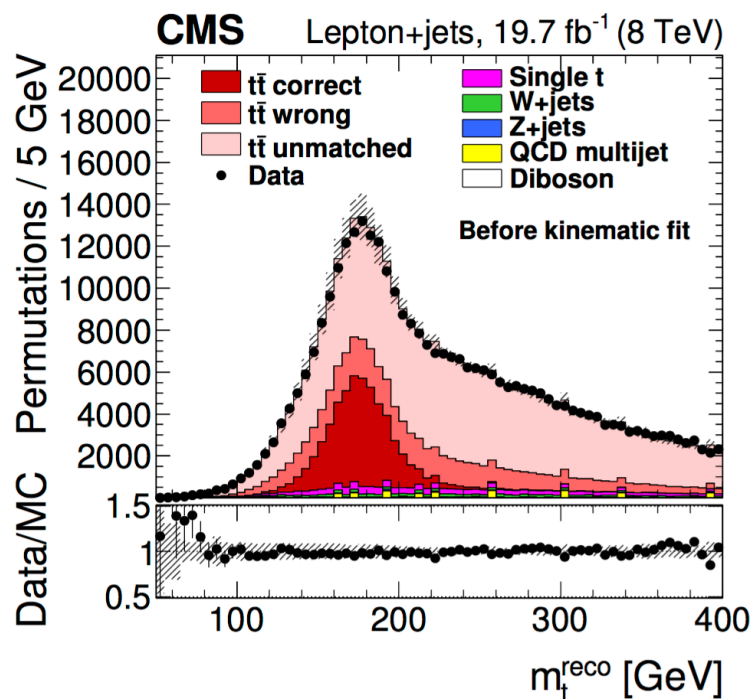
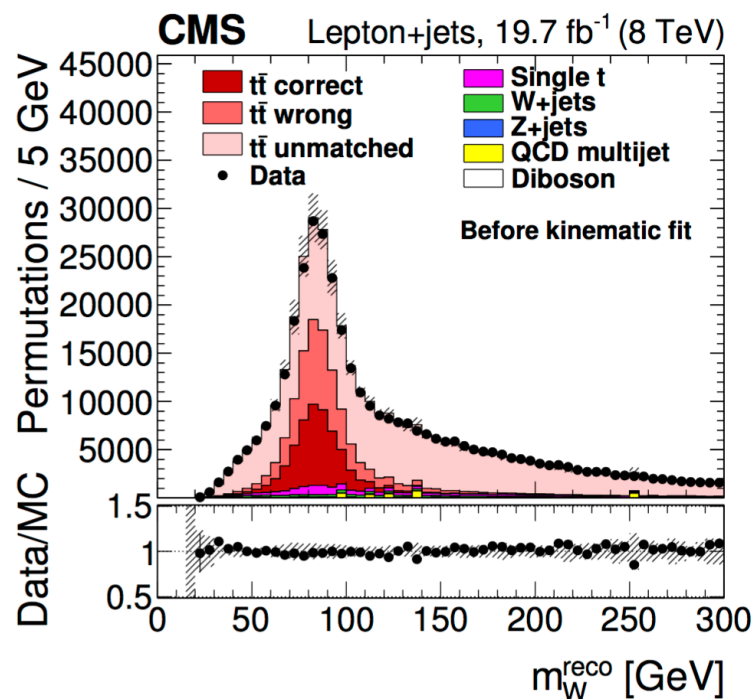


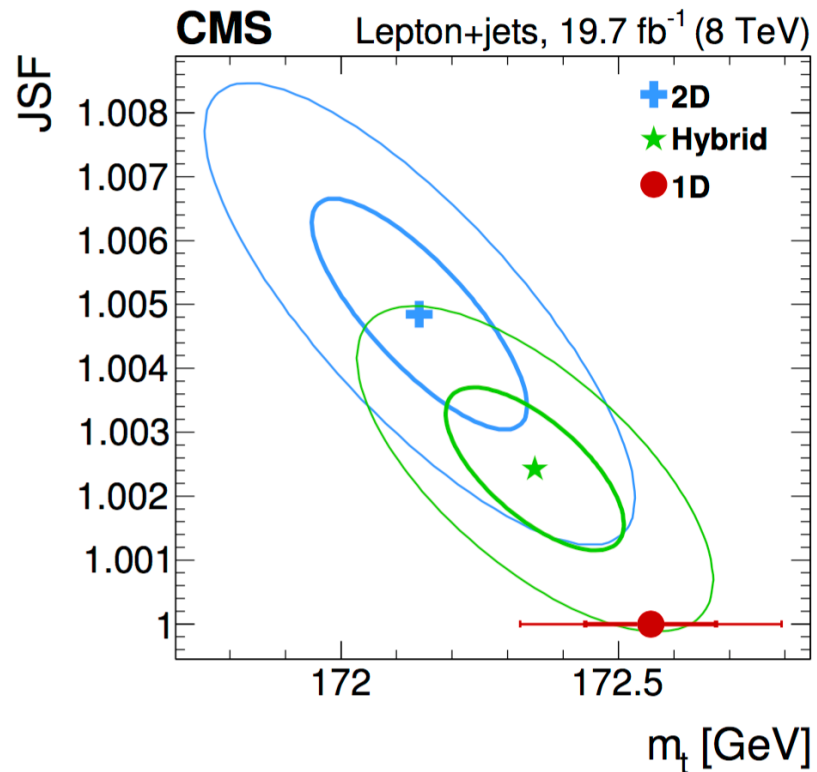
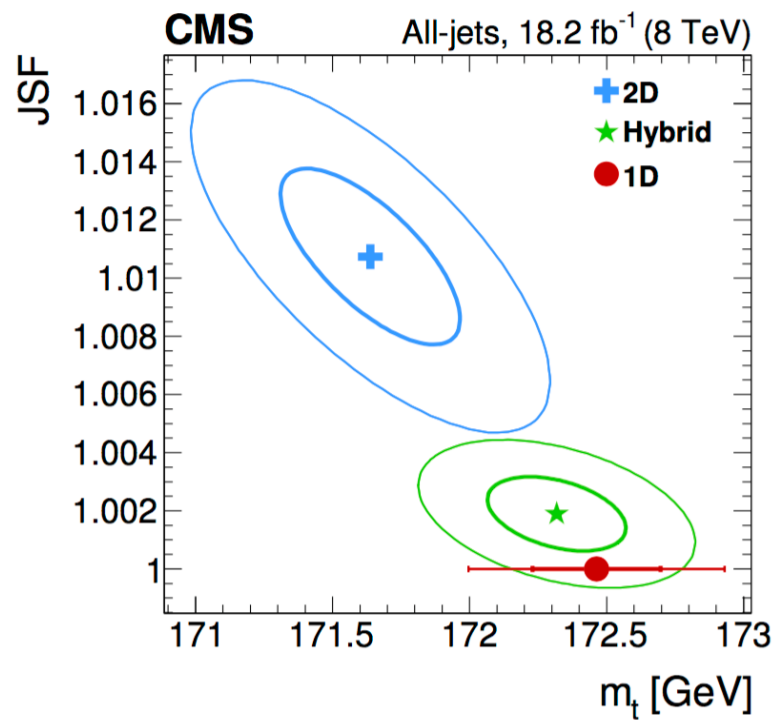
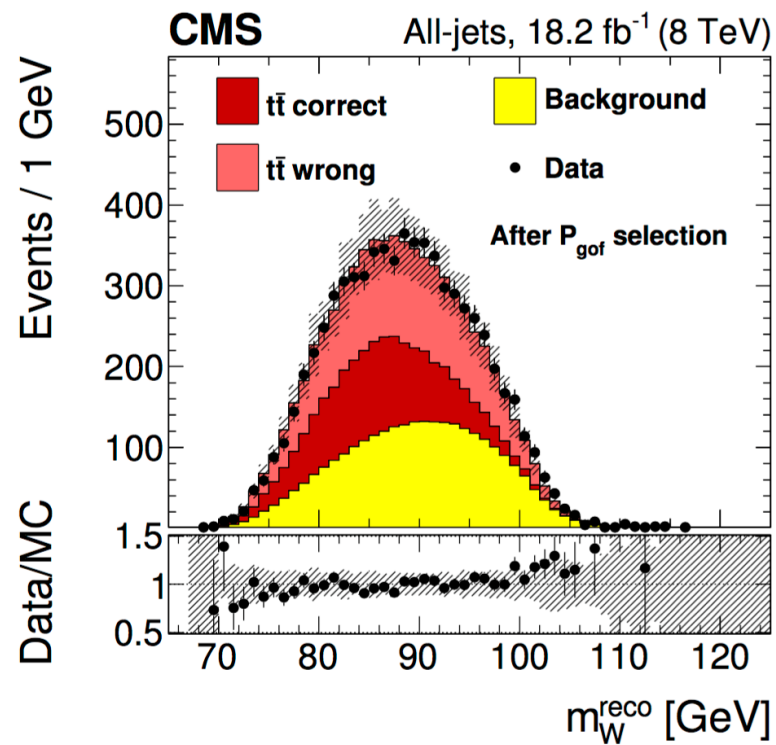
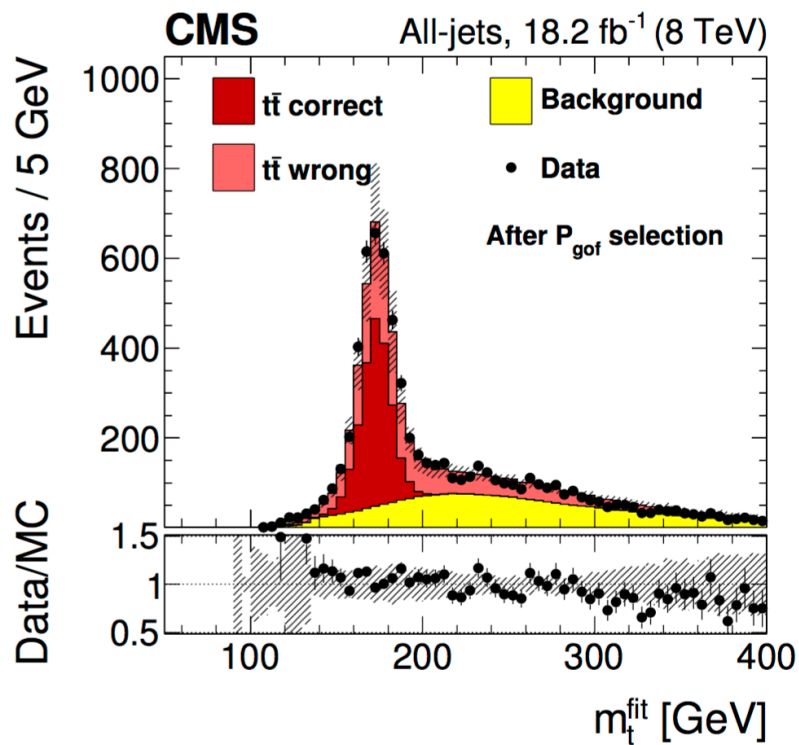


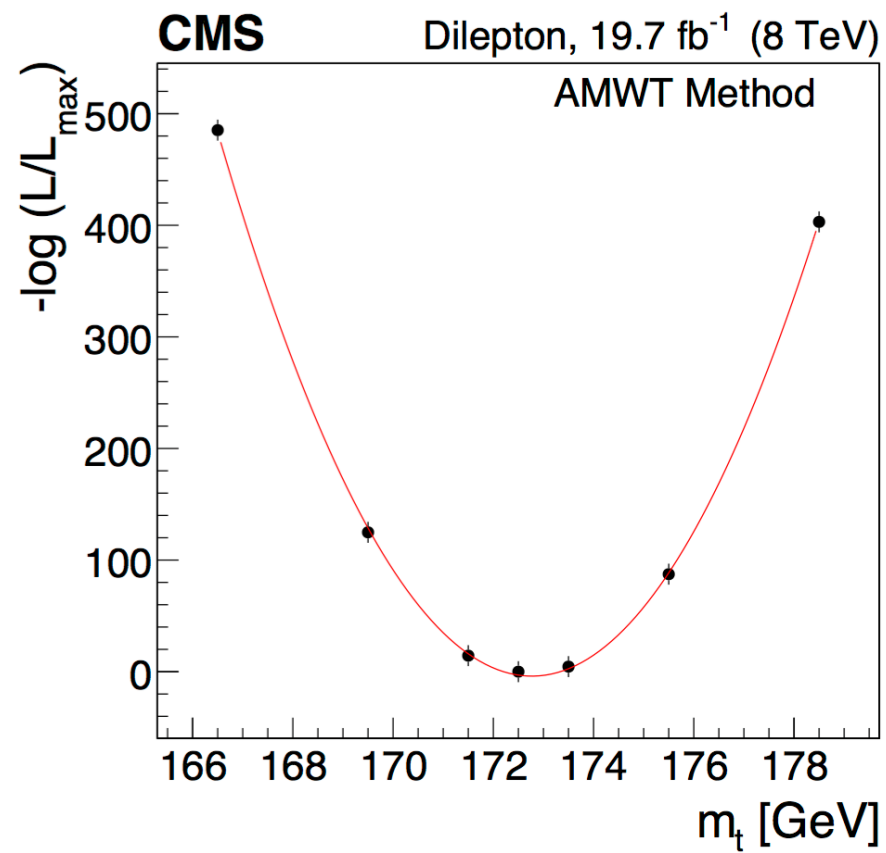
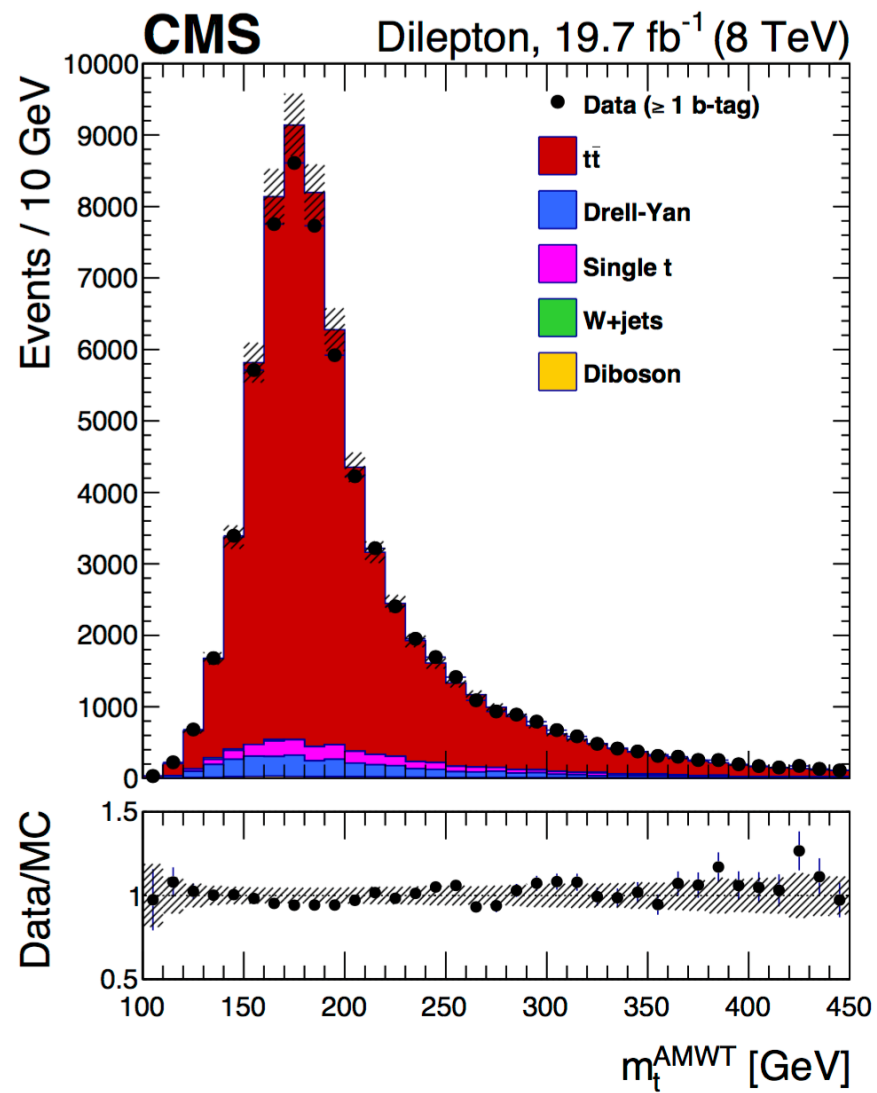
DØ Run IIb Preliminary, L=1.2 fb⁻¹DØ Run IIb Preliminary, L=1.2 fb⁻¹DØ Run IIb Preliminary, L=1.2 fb⁻¹DØ Run IIb Preliminary, L=1.2 fb⁻¹DØ Run IIb Preliminary, L=1.2 fb⁻¹

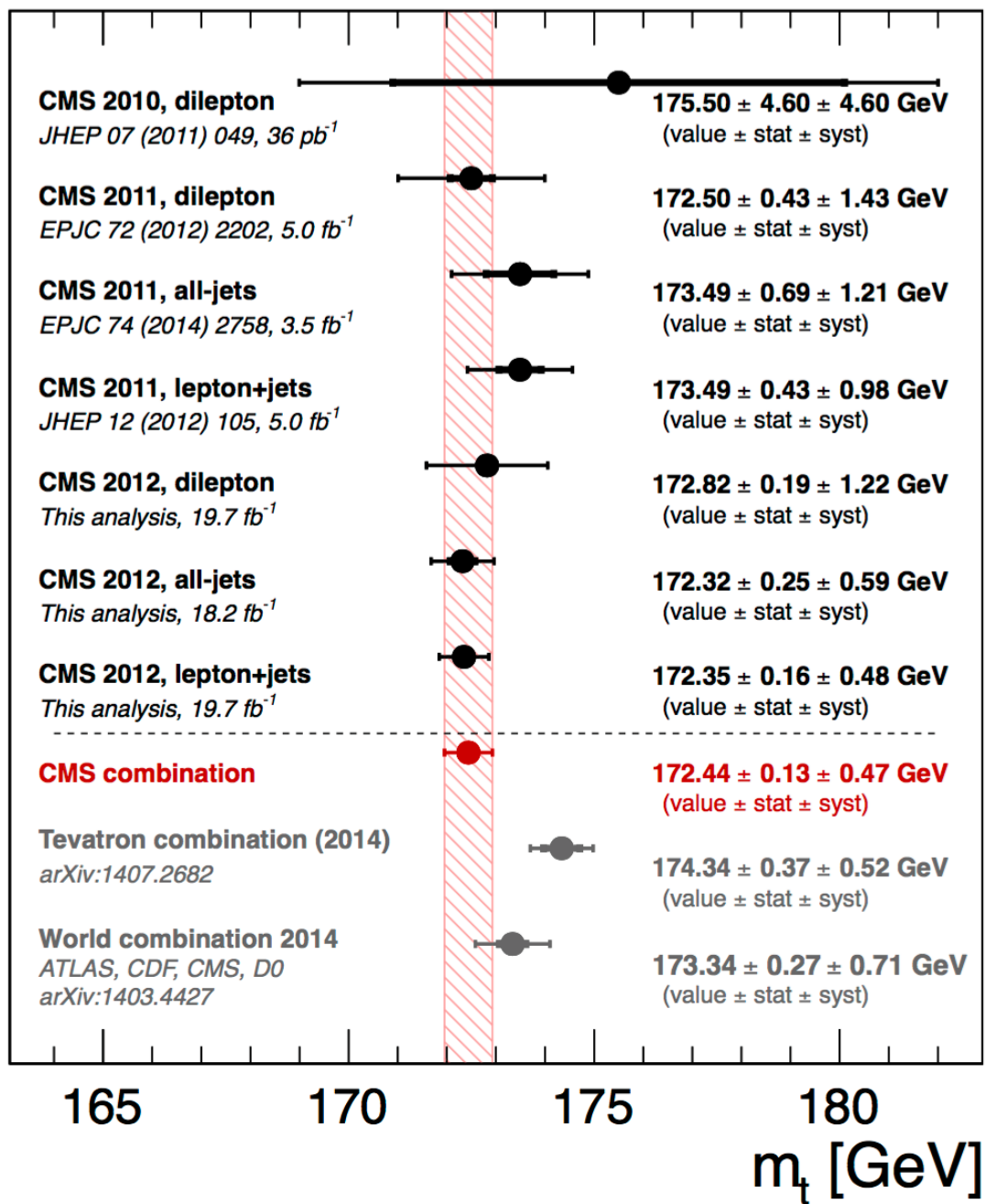
DØ Run IIb Preliminary, L=1.2 fb⁻¹DØ Run IIb Preliminary, L=1.2 fb⁻¹

Source	Uncertainty on top mass (GeV/c ²)
Signal modeling	± 0.40
Background modeling	± 0.08
<i>W</i> heavy flavor factor	± 0.07
<i>b</i> fragmentation function	± 0.10
PDF uncertainty	± 0.24
Residual JES uncertainty	± 0.03
Relative <i>b</i> /light Jet Energy Scale	± 0.82
<i>b</i> -tagging efficiency	± 0.16
Trigger efficiency	± 0.09
Jet energy resolution	± 0.30
Multijet background	± 0.20
MC calibration	± 0.14
Total	± 1.0









Combined m_t result	δm_t (GeV)
Experimental uncertainties	
Method calibration	0.03
Jet energy corrections	
– JEC: Intercalibration	0.01
– JEC: In situ calibration	0.12
– JEC: Uncorrelated non-pileup	0.10
Lepton energy scale	0.01
E_T^{miss} scale	0.03
Jet energy resolution	0.03
b tagging	0.05
Pileup	0.06
Backgrounds	0.04
Trigger	<0.01
Modeling of hadronization	
JEC: Flavor	0.33
b jet modeling	0.14
Modeling of perturbative QCD	
PDF	0.04
Ren. and fact. scales	0.10
ME-PS matching threshold	0.08
ME generator	0.11
Top quark p_T	0.02
Modeling of soft QCD	
Underlying event	0.11
Color reconnection modeling	0.10
Total systematic	0.47
Statistical	0.13
Total Uncertainty	0.48

