

	2D approach		1D approach	Hybrid	
	$\delta m_t^{2D}$ (GeV)	$\delta \text{JSF}^{2D}$	$\delta m_t^{1D}$ (GeV)	$\delta m_t^{\text{hyb}}$ (GeV)	$\delta \text{JSF}^{\text{hyb}}$
Experimental uncertainties					
Method calibration	0.05	<0.001	0.05	0.05	<0.001
Jet energy corrections (quad. sum)	(0.13)	(0.002)	(0.85)	(0.19)	(0.003)
– JEC: InterCalibration	0.02	<0.001	0.16	0.04	<0.001
– JEC: MPFIInSitu	0.01	<0.001	0.23	0.07	<0.001
– JEC: Uncorrelated	0.13	0.002	0.78	0.16	0.003
Jet energy resolution	0.08	0.001	0.04	0.04	0.001
b tagging	0.03	<0.001	0.01	0.03	<0.001
Pileup	0.08	0.001	0.02	0.05	0.001
Non-tt background	0.04	0.001	0.02	0.02	0.001
Modeling of hadronization					
JEC: Flavor (linear sum)	(0.42)	(0.001)	(0.31)	(0.39)	(<0.001)
– light quarks (uds)	0.12	-0.001	-0.01	+0.07	0.001
– charm	0.03	<0.001	-0.01	0.02	<0.001
– bottom	-0.31	<0.001	-0.31	-0.31	<0.001
– gluon	-0.23	0.003	0.02	-0.15	0.002
b-jet modeling (quad. sum)	(0.13)	(0.001)	(0.09)	(0.12)	(<0.001)
– b fragmentation Bowler-Lund	0.07	<0.001	0.01	0.05	<0.001
– b fragmentation Peterson	0.04	<0.001	0.05	0.04	<0.001
– semileptonic B hadron decays	0.11	<0.001	0.08	0.10	<0.001
Modeling of perturbative QCD					
PDF	0.02	<0.001	0.02	0.02	<0.001
Ren. and fact. scale	0.02	0.001	0.02	0.01	<0.001
ME/PS matching threshold	0.08	0.001	0.03	0.05	0.001
ME generator	0.19	0.001	0.29	0.22	0.001
ISR PS scale	0.07	0.001	0.10	0.06	<0.001
FSR PS scale	0.24	0.004	0.22	0.13	0.003
Top-quark transverse momentum	<0.01	<0.001	<0.01	<0.01	<0.001
Modeling of soft QCD					
Underlying event	0.07	0.001	0.10	0.06	<0.001
Early resonance decays	0.22	0.008	0.42	0.03	0.005
Color reconnection modeling	0.34	0.001	0.23	0.31	0.001
<b>Total systematic</b>	<b>0.71</b>	<b>0.010</b>	<b>1.09</b>	<b>0.62</b>	<b>0.008</b>
Statistical (expected)	0.09	0.001	0.05	0.07	0.001
<b>Total (expected)</b>	<b>0.72</b>	<b>0.010</b>	<b>1.09</b>	<b>0.62</b>	<b>0.008</b>