Systematic Uncertainties, JP $< 1\%$

	Single tag, JP $< 1\%$		Double tag, JP $< 1\%$	
Source	Fractional Syst. Uncert.	Contribution to $\sigma_{t\bar{t}}$	Fractional Syst. Uncert.	Contribution to $\sigma_{t\bar{t}}$
Central Electron ID	1.6%	0.97%	1.6%	0.96%
Central Muon ID	1.9%	0.61%	1.9%	0.60%
CMX Muon ID	1.8%	0.22%	1.8%	0.21%
PDF	2%	2.0%	2%	2.0%
Jet Energy Scale	4.2%	4.2%	4.2%	4.1%
Lepton Isolation	5%	4.9%	5%	4.8%
Initial and Final State Radiation	1.3%	1.3%	1.3%	1.3%
Monta Carlo Modeling	1.6%	1.6%	1.6%	1.6%
Z Vertex	2.0%	2.1%	2.0%	2.0%
Tagging Scale Factor (b's/c's)	8.6/12.9%	7.2%	8.6/12.9%	14.7%
Mistag Asimmetry	11.5%	1.0%	23.0%	0.07%
Non-W Fraction	50%	0.33%	50%	0.060%
Non-W Prediction	50%	0.71%	50%	0.13%
W+HF Prediction	30%	2.6%	30%	0.84%
Other MC backgrounds	1.8%	0.056%	1.8%	0.027%
Luminosity	5.9%	5.7%	5.9%	5.7%
Total Systematic Uncertainty		12.2%		17.4%

Systematic Uncertainties, JP $<$ 5%

	Single tag, JP $<$ 5%		Double tag, JP $<$ 5%	
Source	Fractional Syst. Uncert.	Contribution to $\sigma_{t\bar{t}}$	Fractional Syst. Uncert.	Contribution to $\sigma_{t\bar{t}}$
Central Electron ID	1.6%	0.98%	1.6%	0.96%
Central Muon ID	1.9%	0.61%	1.9%	0.60%
CMX Muon ID	1.8%	0.22%	1.8%	0.21%
PDF	2%	2.0%	2%	2.0%
Jet Energy Scale	4.2%	4.2%	4.2%	4.1%
Lepton Isolation	5%	5.0%	5%	4.8%
Initial and Final State Radiation	1.3%	1.3%	1.3%	1.3%
Monta Carlo Modeling	1.6%	1.6%	1.6%	1.6%
Z Vertex	2.0%	2.1%	2.0%	2.0%
Tagging Scale Factor (b's/c's)	8.5/12.7%	6.3%	8.5/12.7%	13.6%
Mistag Asimmetry	15.5%	3.0%	31.1%	0.44%
Non-W Fraction	50%	0.56%	50%	0.092%
Non-W Prediction	50%	0.79%	50%	0.21%
W+HF Prediction	30%	2.9%	30%	1.0
Other MC backgrounds	1.8%	0.072%	1.8%	0.030%
Luminosity	5.9%	5.8%	5.9%	5.7%
Total Systematic Uncertainty		12.2%		16.5%