Matching Validation and kinematics of top-anti-top and extra-jets

MadReport

September 20, 2007

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1 Production 1 details

`No banner for this production`

2 Production 2 details

`No banner for this production`

3 Differential Jet Rate

3.1 Production 1

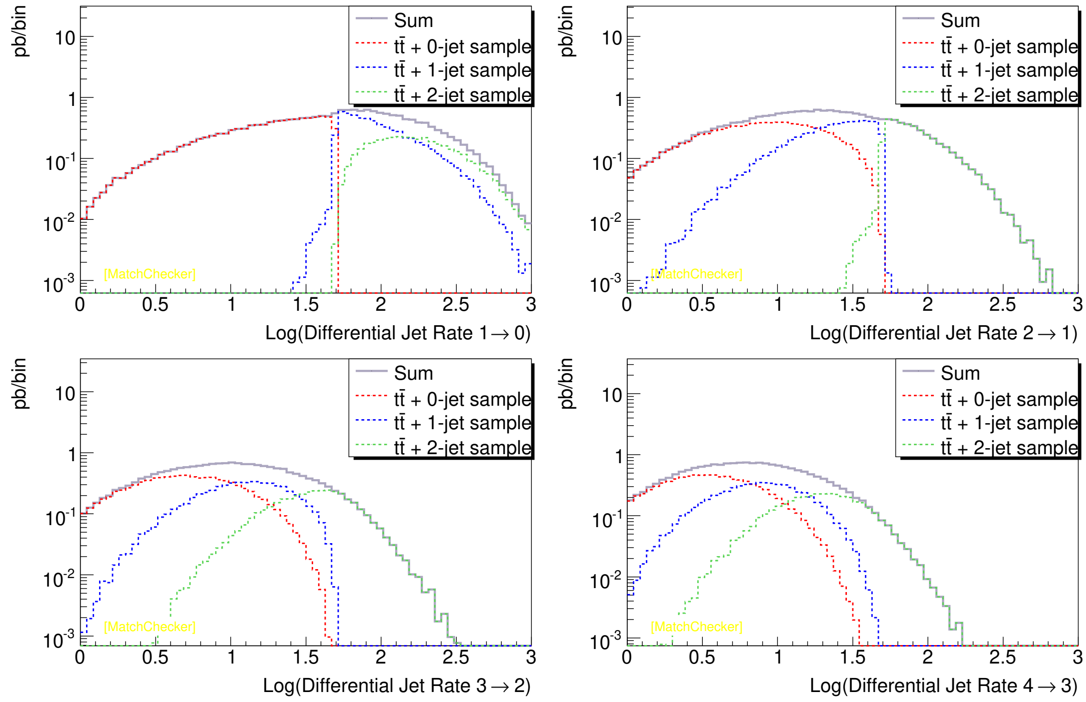

Figure 1: Differential jet rate with $Qcut$= 50 GeV.

3.2 Production 2

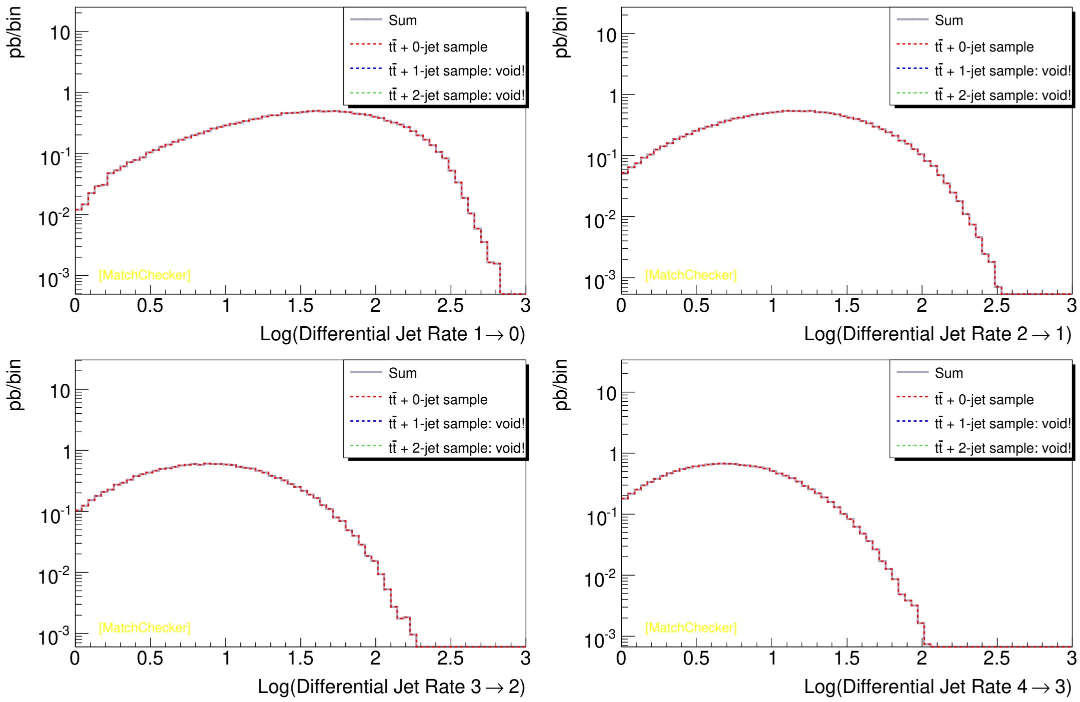

Figure 2: Differential jet rate with $Qcut$= 50 GeV.

3.3 Comparison of differential jet rates (global shapes) between productions

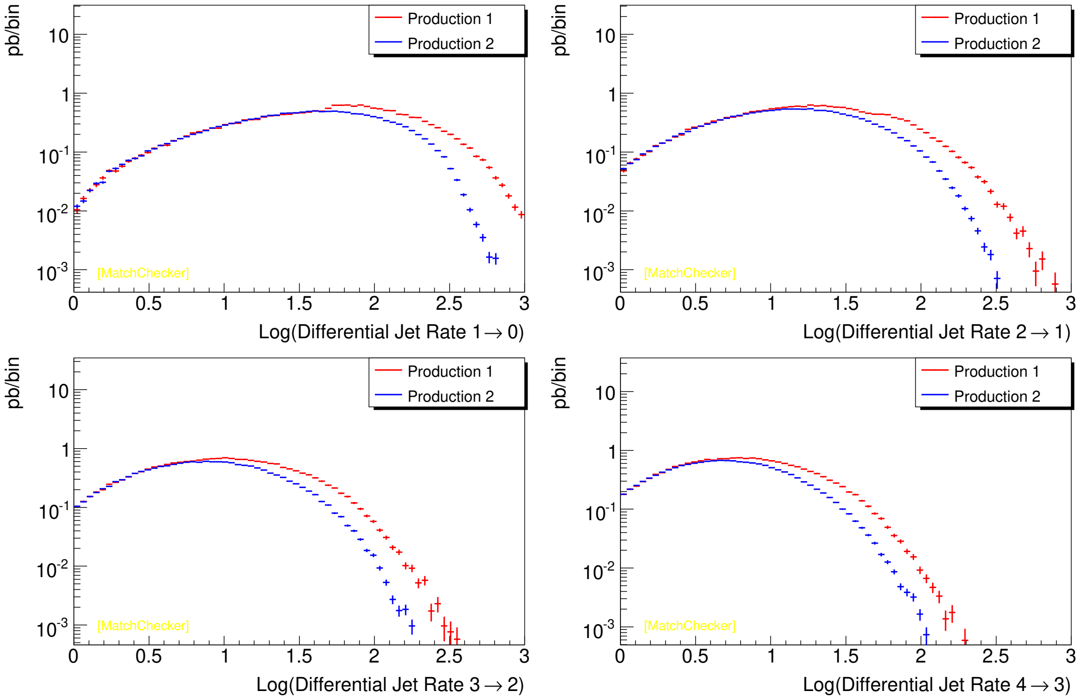

Figure 3: Comparison of differential jet rates between different parametrization .

4 X kinematics

4.1 Production 1

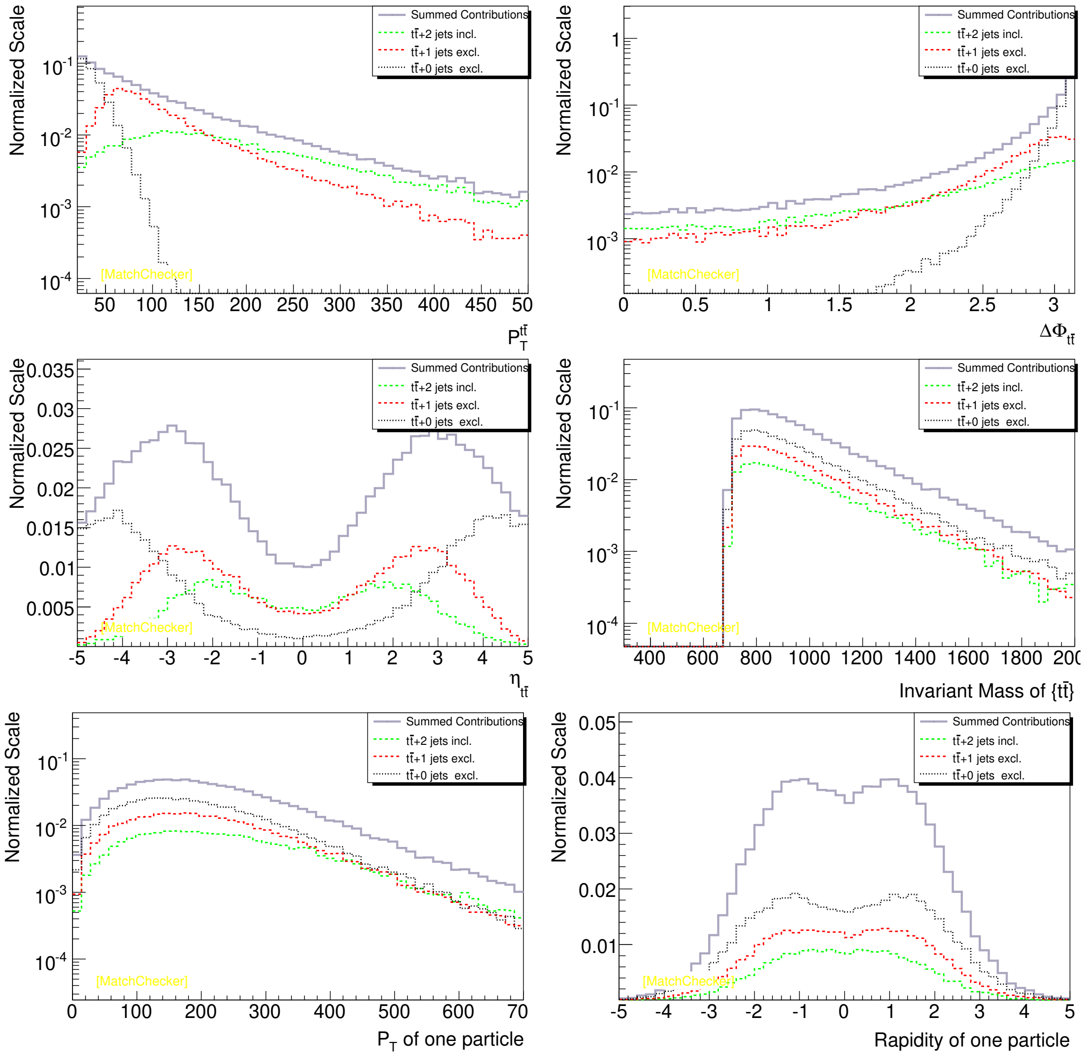

Figure 4: Kinematics variables for $t\bar{t}$ with a multiplicity up to 2 using MadGraph, .

4.2 Production 2

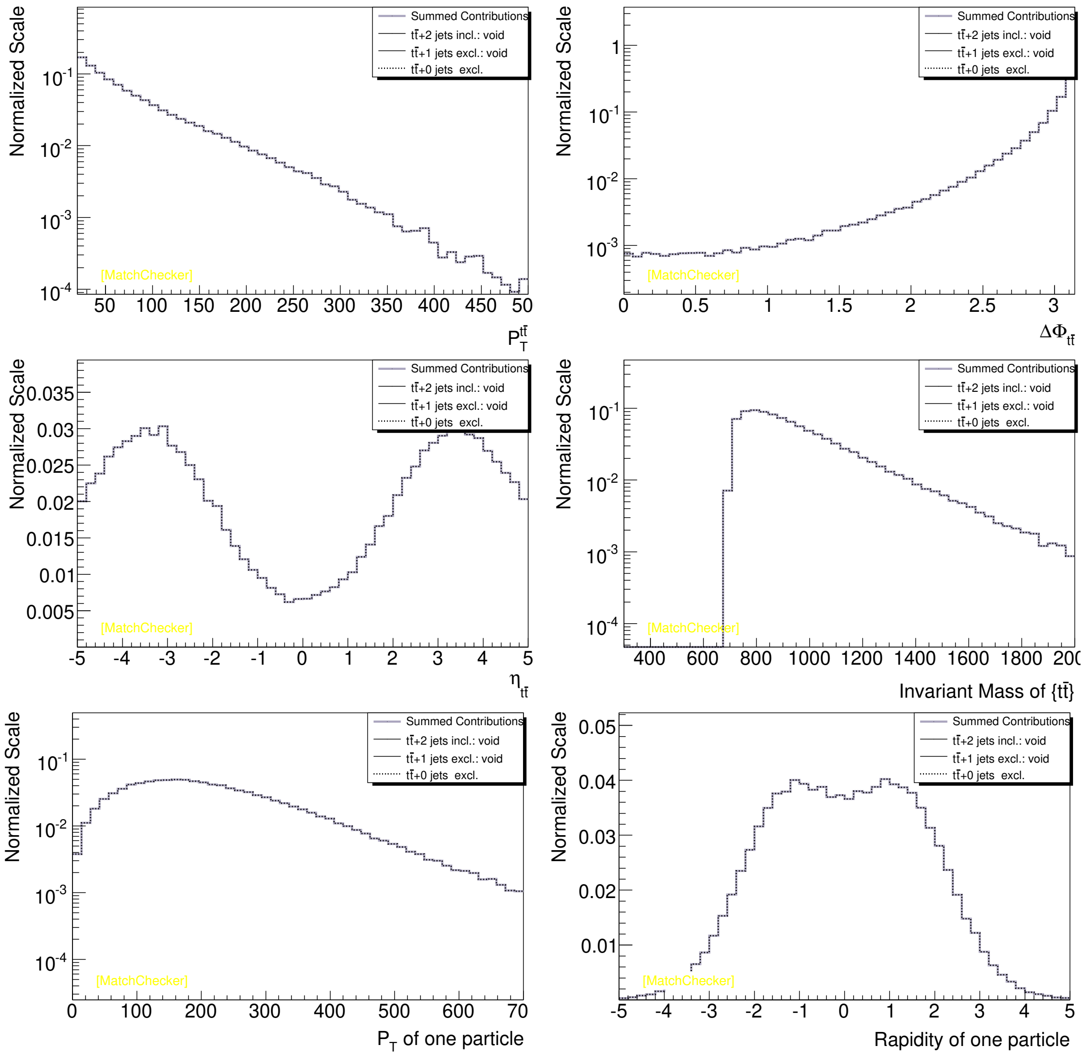

Figure 5: Kinematics variables for $t\bar{t}$ with a multiplicity up to 2 using MadGraph, .

4.3 Comparison of "X" kinematics (global shapes) between productions

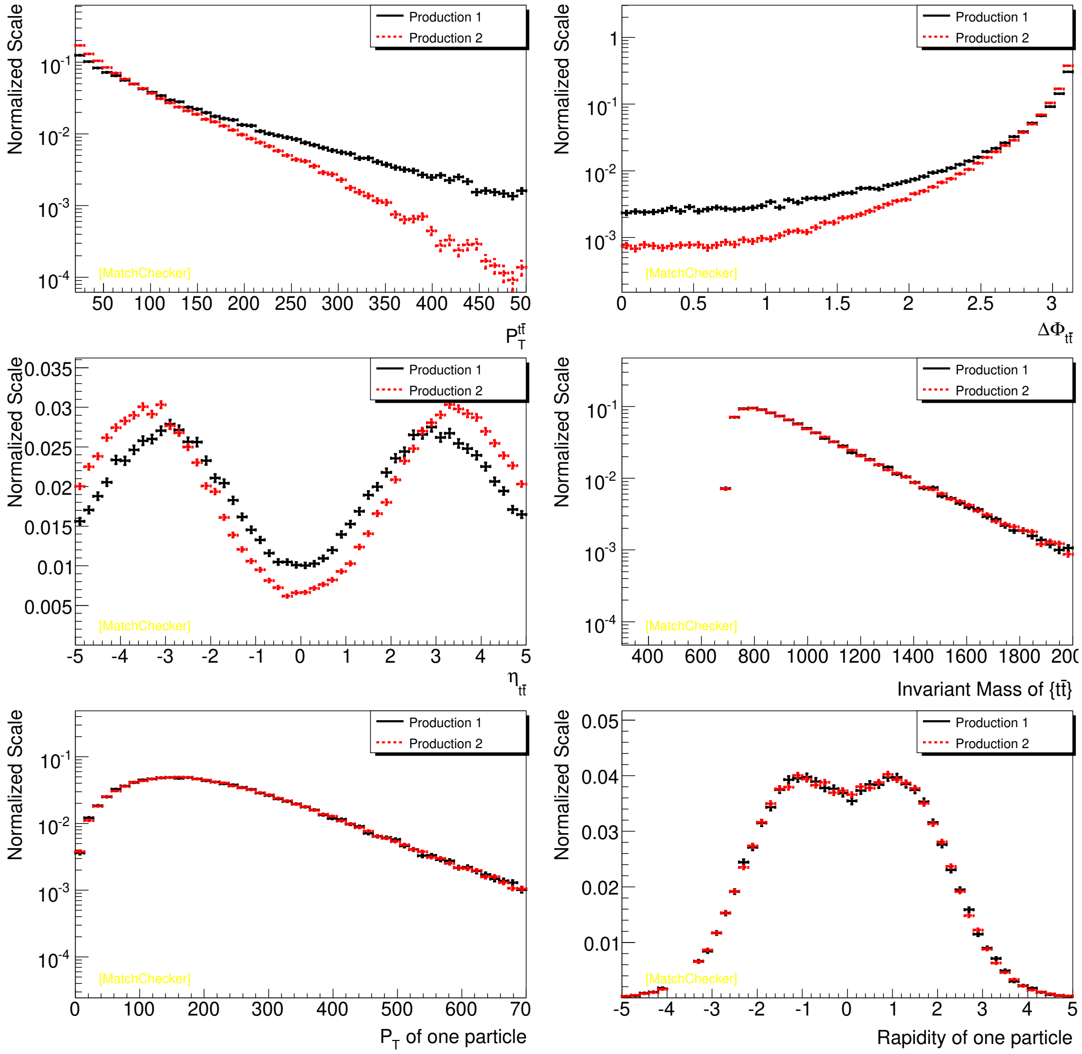

Figure 6: Comparison of kinematics variables for $t\bar{t}$.

4.4 Ratio of distributions

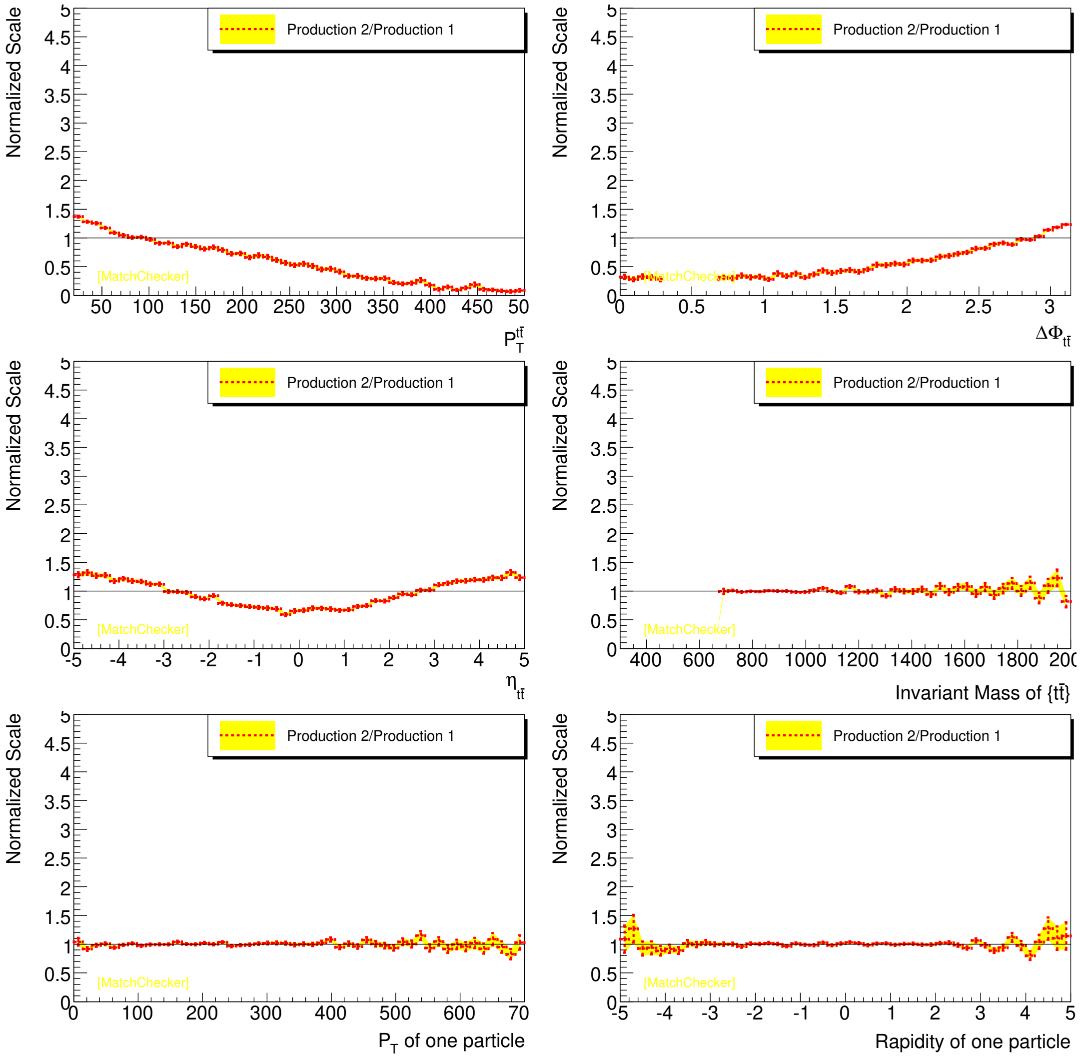

Figure 7: Comparison of kinematics variables for $t\bar{t}$.

5 Jet P_T

5.1 Production 1

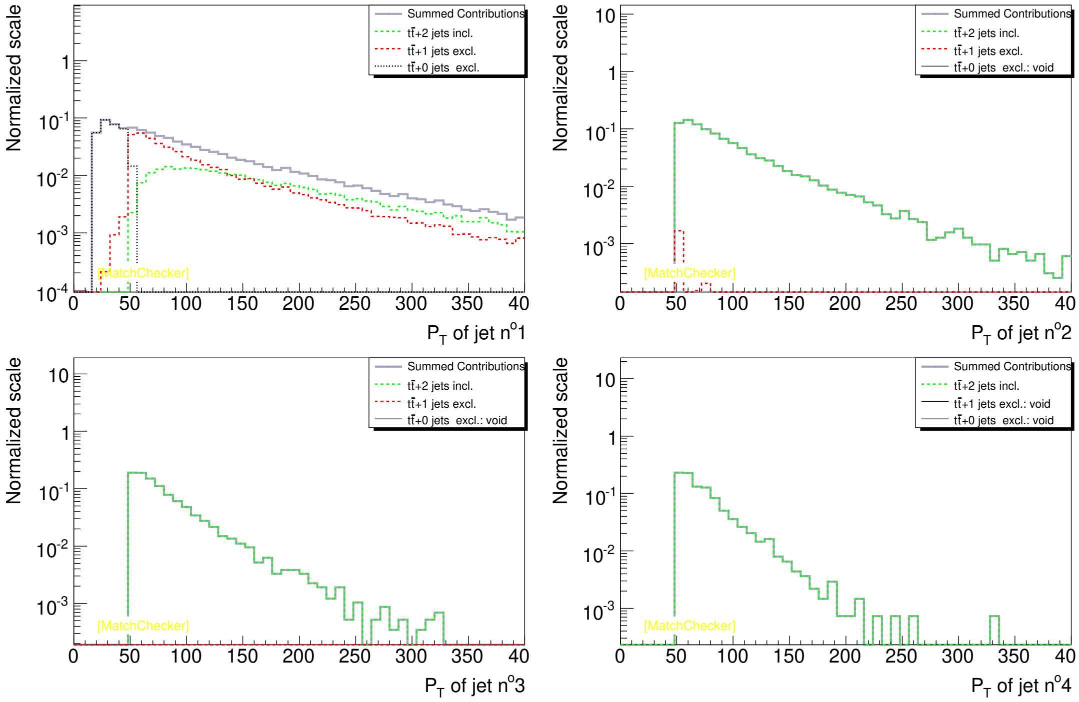

Figure 8: Pt of the four first extra-jets in Pt for $t\bar{t}$ using MadGraph, .

5.2 Production 2

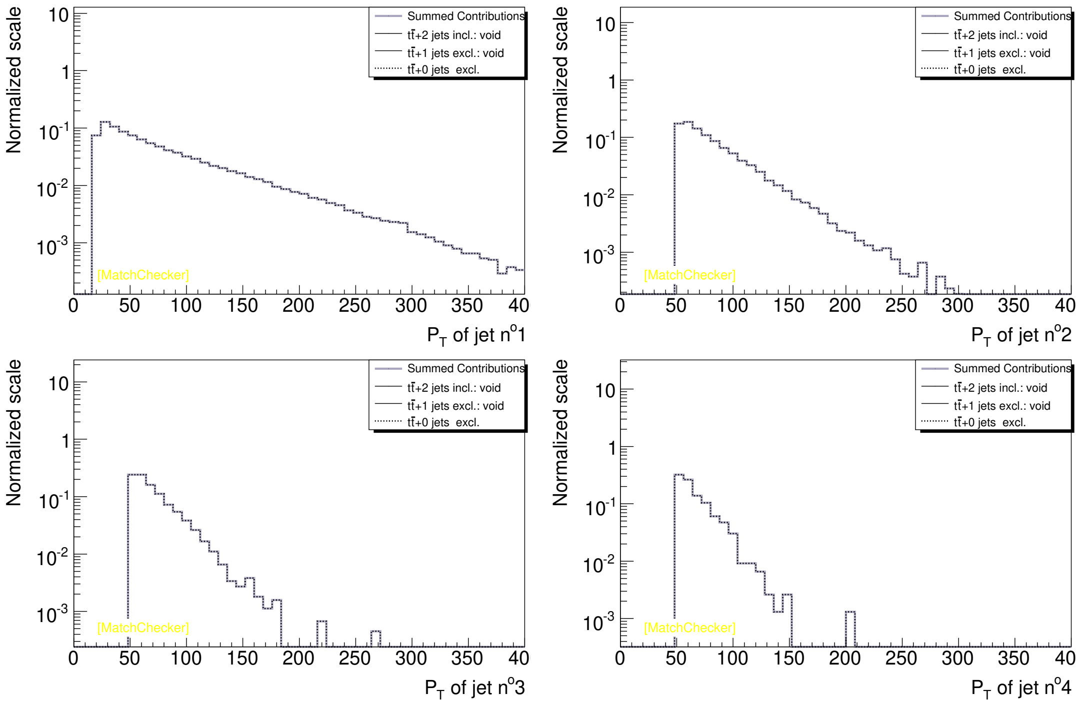

Figure 9: Pt of the four first extra-jets in Pt for $t\bar{t}$ using MadGraph, .

5.3 Comparison of Jet kinematics (global shapes) between productions

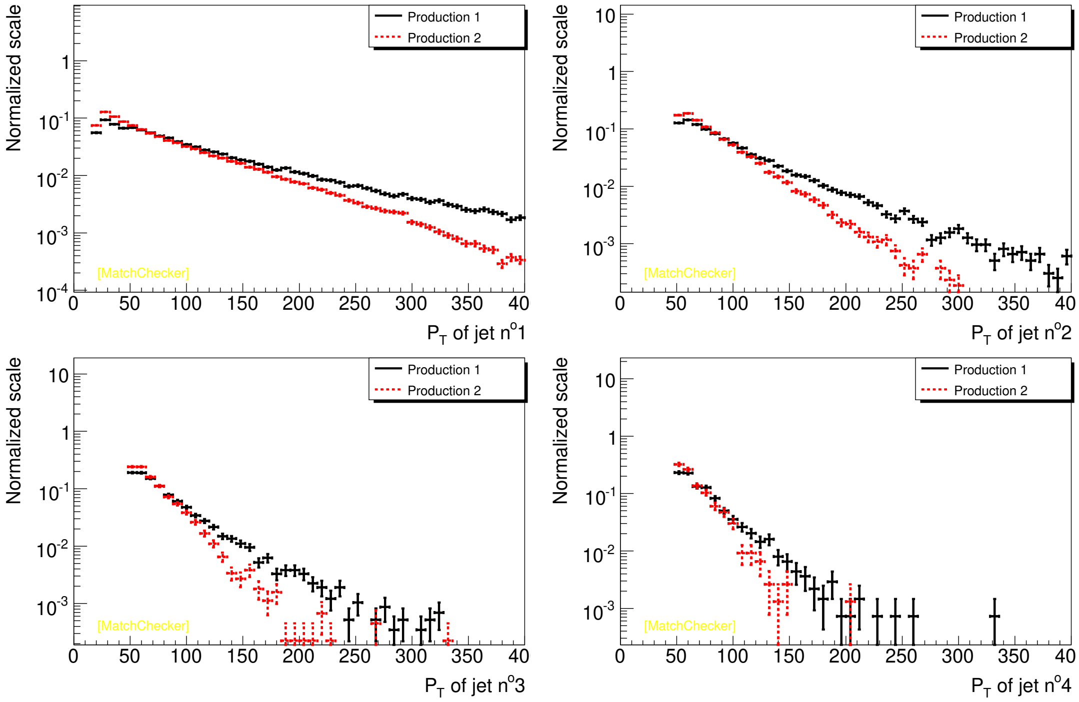

Figure 10: Comparison of kinematics variables for $t\bar{t}$.

5.4 Ratio of distributions

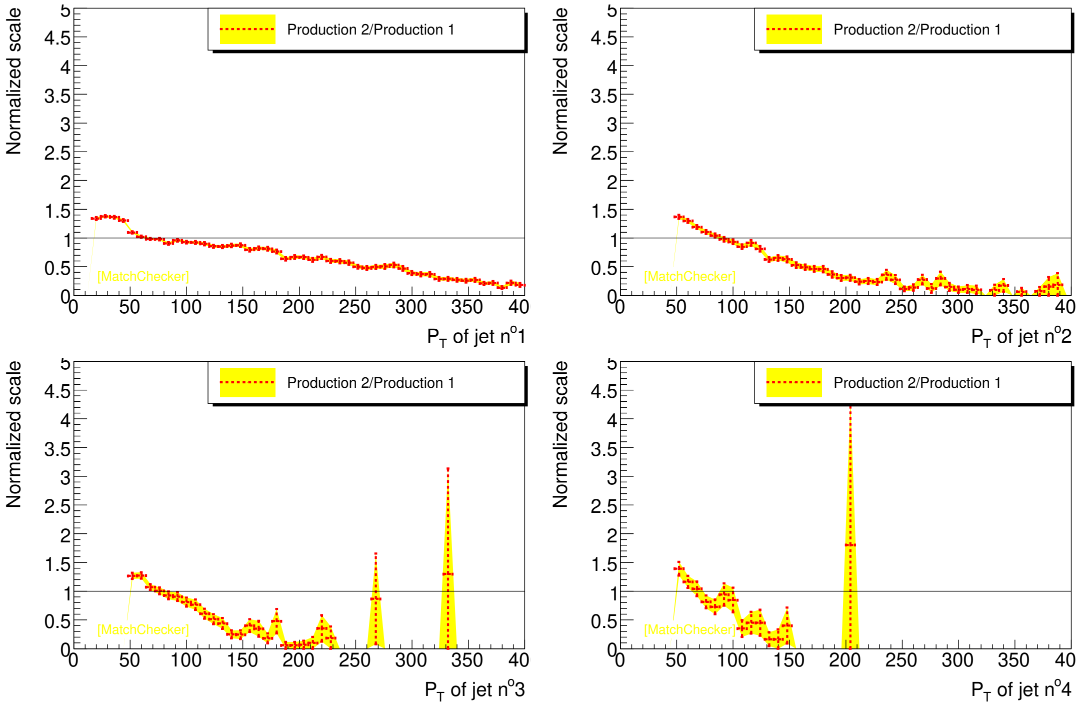

Figure 11: Comparison of kinematics variables for $t\bar{t}$.

6 Jet rapidity

6.1 Jet Rapidity: Production 1, jets with minimal P_T of 20 Gev

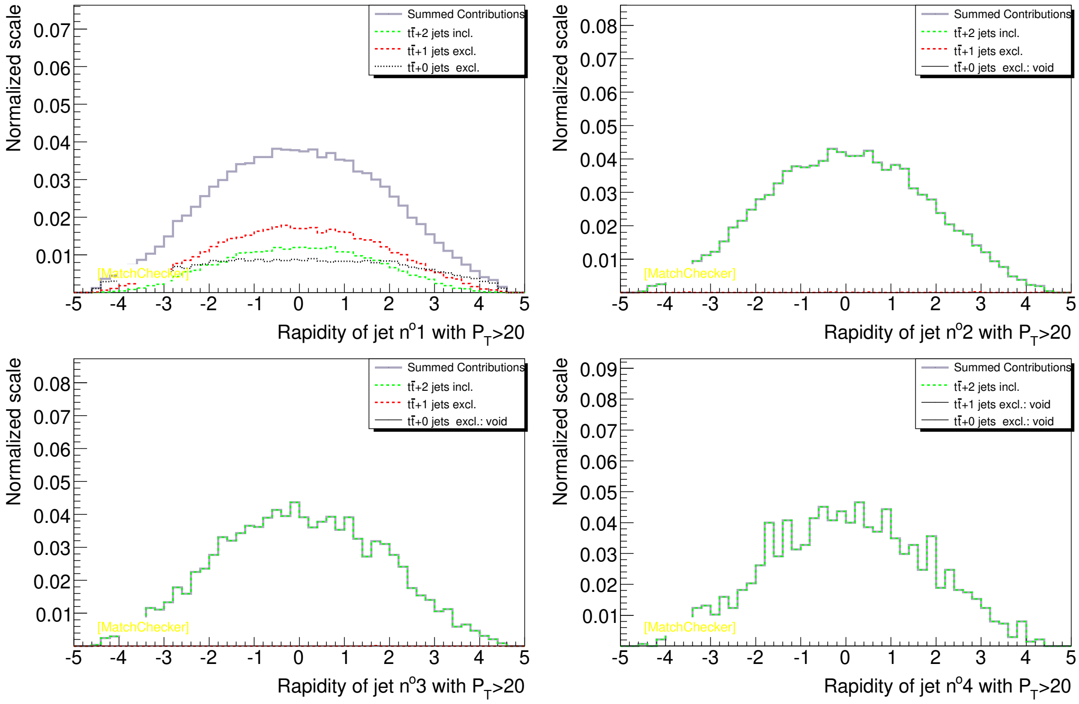

Figure 12: Pt of the four first extra-jets in Pt for $t\bar{t}$ using MadGraph, .

6.2 Jet Rapidity: Production 2, jets with minimal P_T of 20 Gev

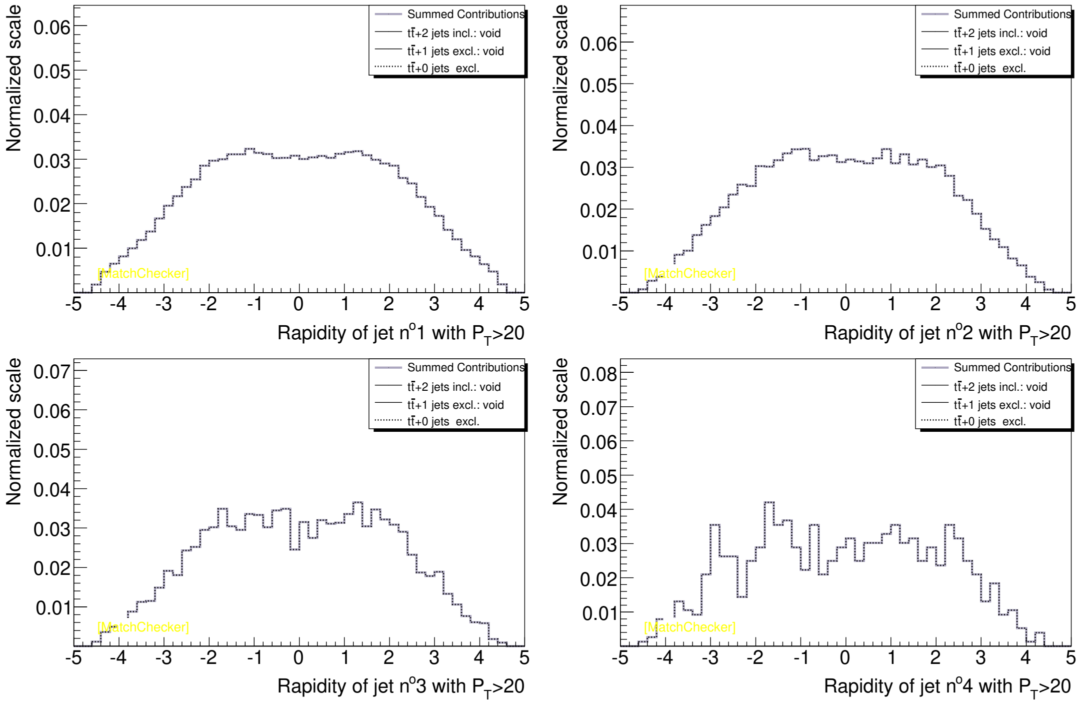

Figure 13: Pt of the four first extra-jets in Pt for $t\bar{t}$ using MadGraph, .

6.3 Comparison of Jets with a cut of 20 Gev in P_T

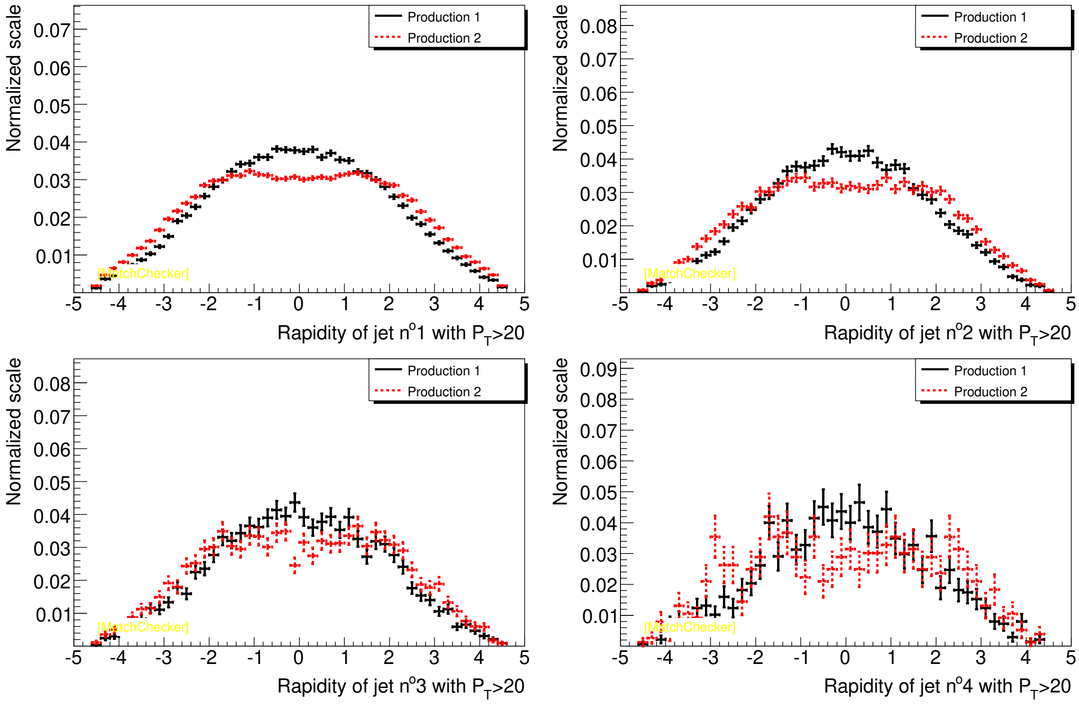

Figure 14: Comparison of kinematics variables for $t\bar{t}$.

6.4 Ratio of distributions

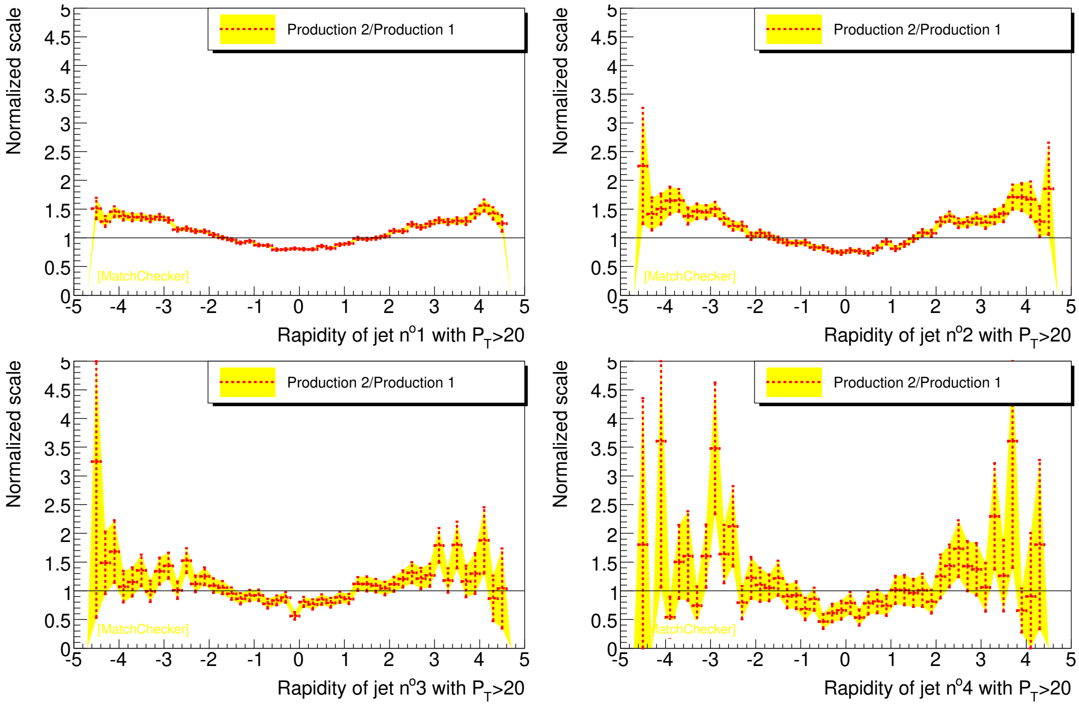

Figure 15: Comparison of kinematics variables for $t\bar{t}$.

6.5 Jet Rapidity: Production 1, jets with minimal P_T of 50 Gev

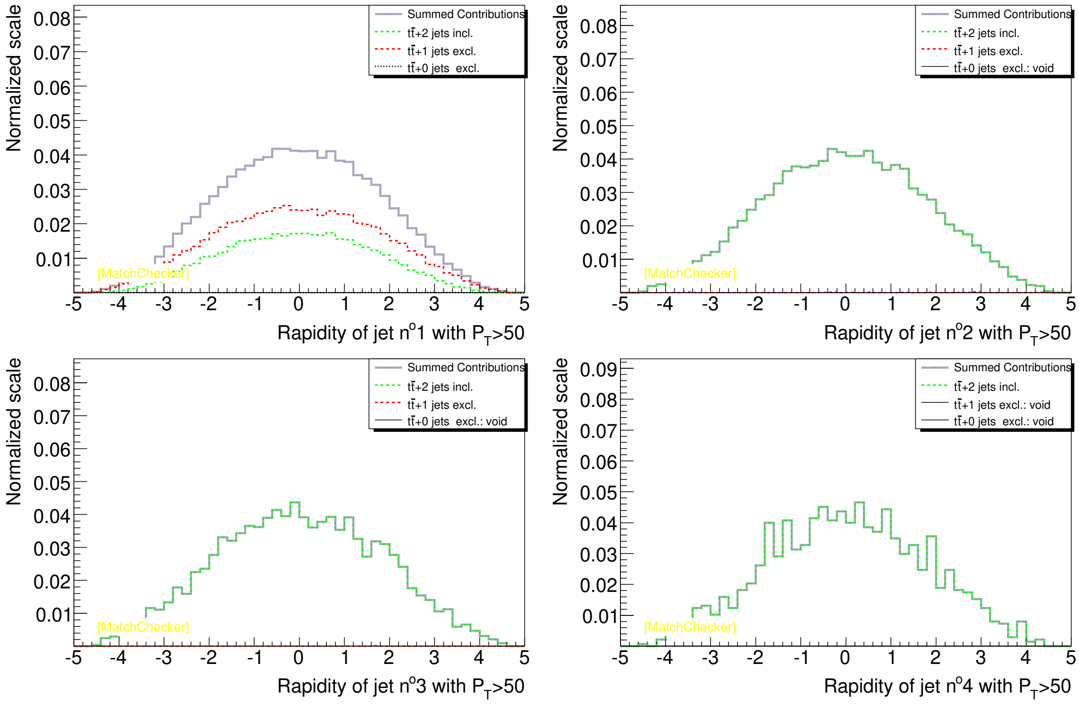

Figure 16: Pt of the four first extra-jets in Pt for $t\bar{t}$ using MadGraph, .

6.6 Jet Rapidity: Production 2, jets with minimal P_T of 50 Gev

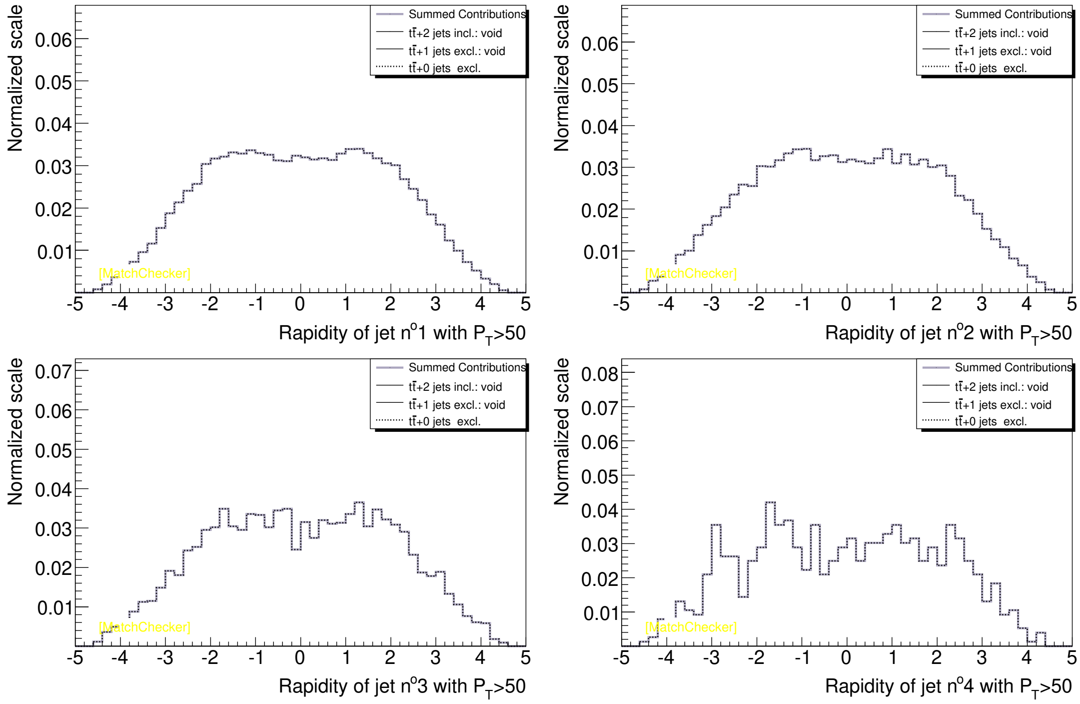

Figure 17: Pt of the four first extra-jets in Pt for $t\bar{t}$ using MadGraph, .

6.7 Comparison of Jets with a cut of 50 Gev in P_T

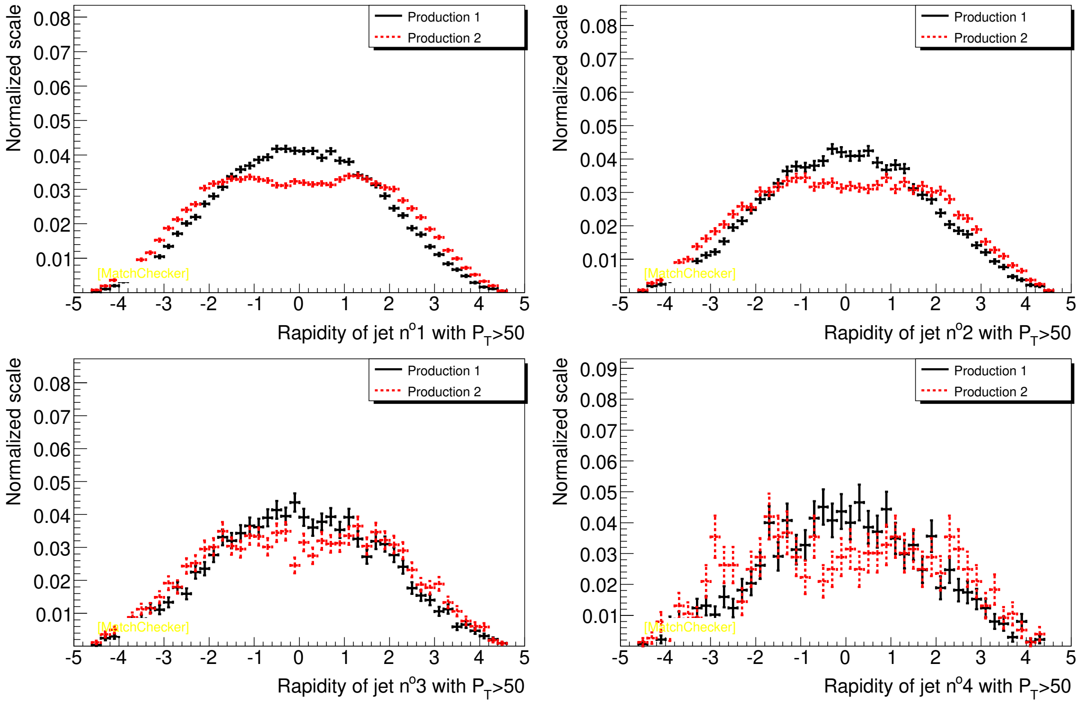

Figure 18: Comparison of kinematics variables for $t\bar{t}$.

6.8 Ratio of distributions

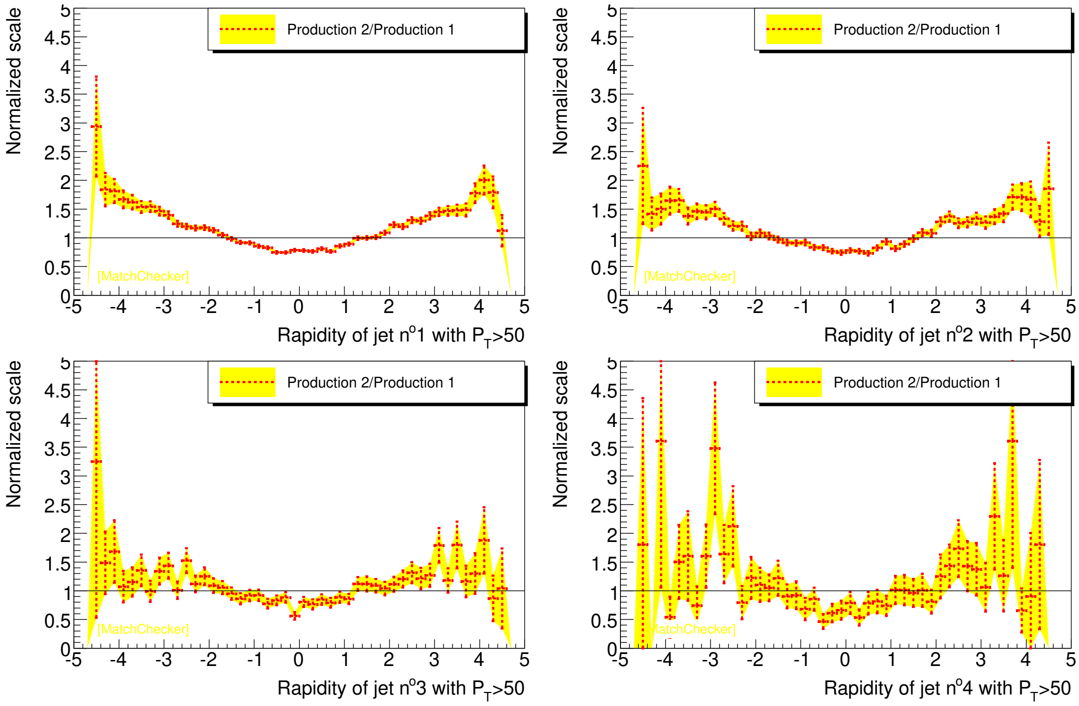

Figure 19: Comparison of kinematics variables for $t\bar{t}$.

6.9 Jet Rapidity: Production 1, jets with minimal P_T of 150 Gev

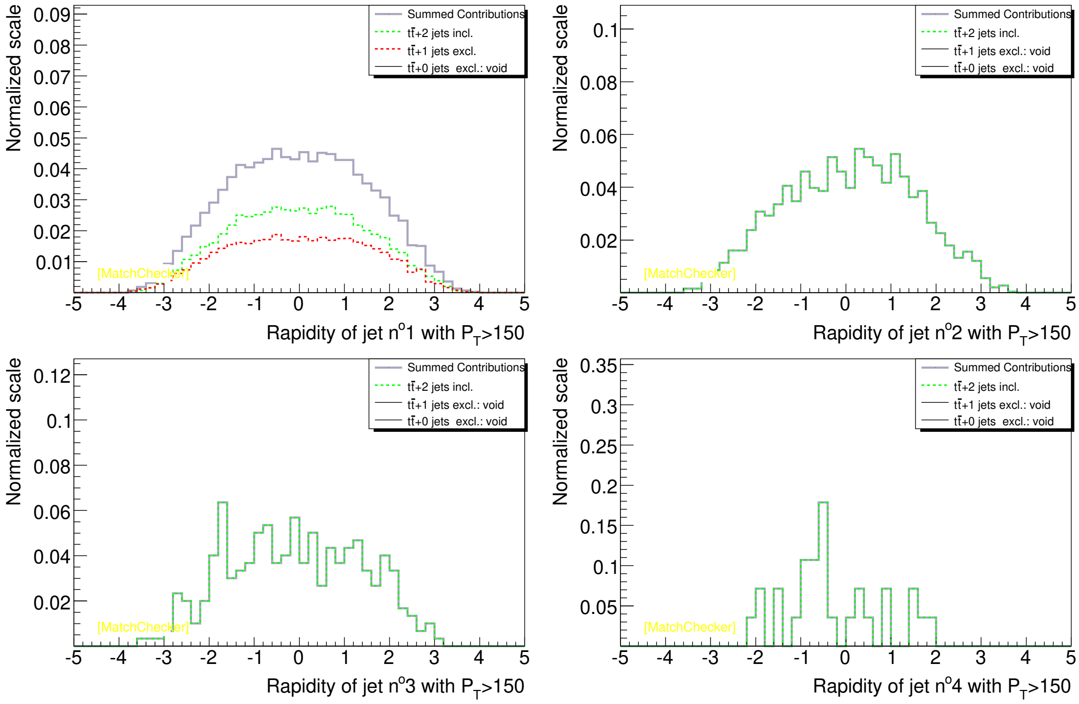

Figure 20: Pt of the four first extra-jets in Pt for $t\bar{t}$ using MadGraph, .

6.10 Jet Rapidity: Production 2, jets with minimal P_T of 150 Gev

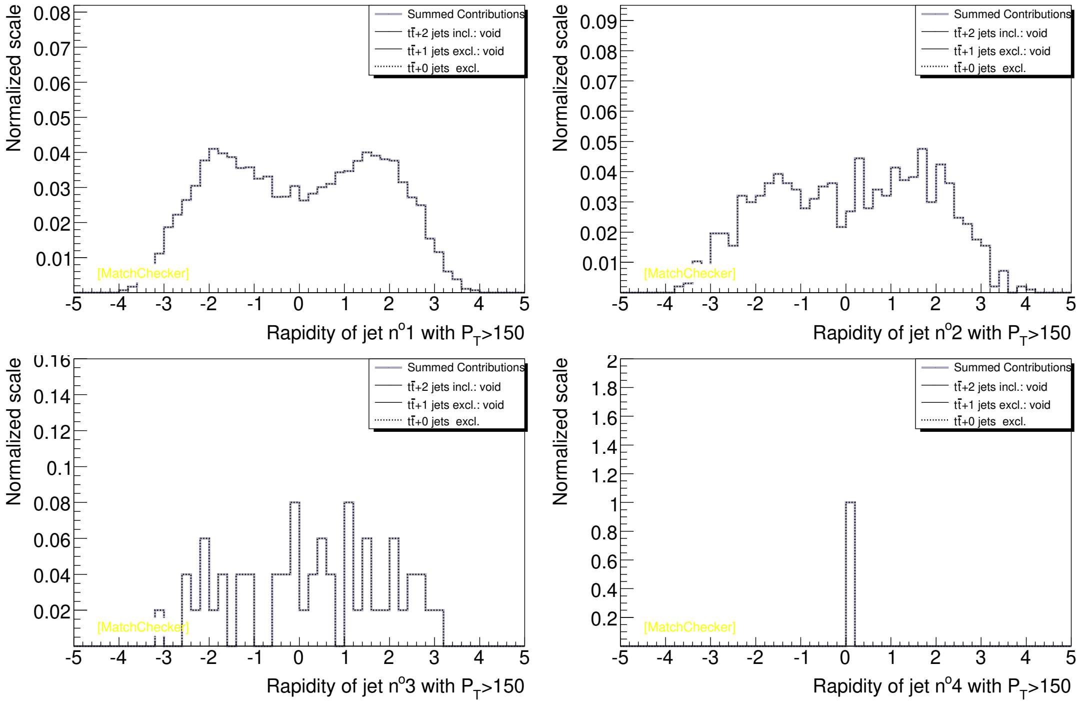

Figure 21: Pt of the four first extra-jets in Pt for $t\bar{t}$ using MadGraph, .

6.11 Comparison of Jets with a cut of 150 Gev in P_T

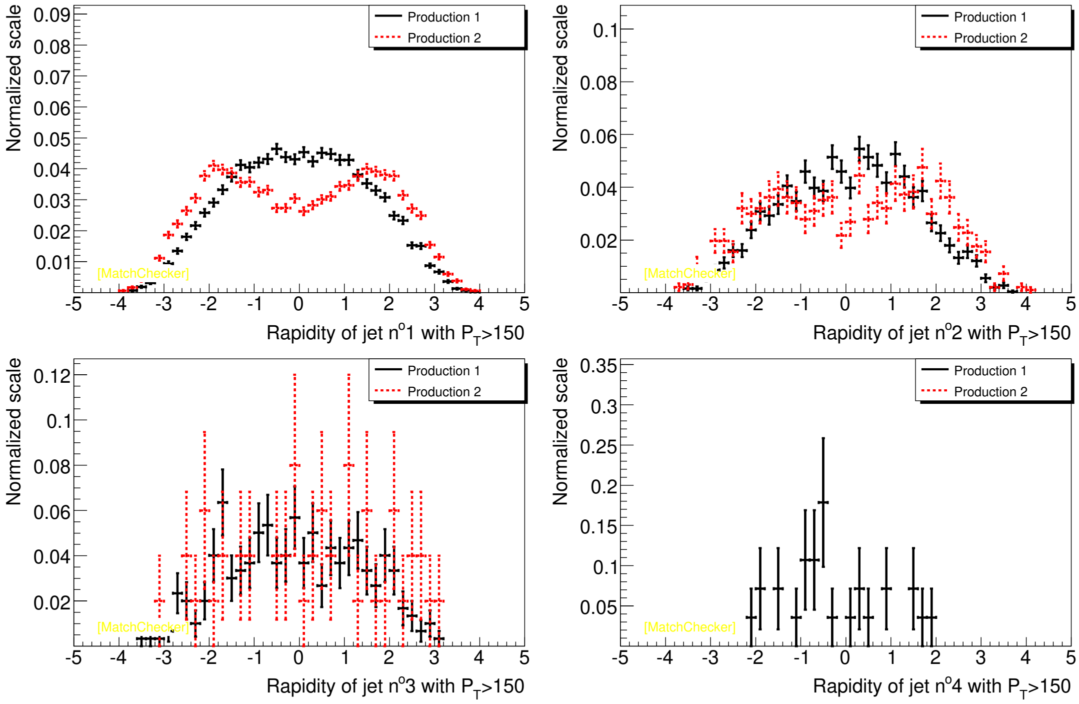

Figure 22: Comparison of kinematics variables for $t\bar{t}$.

6.12 Ratio of distributions

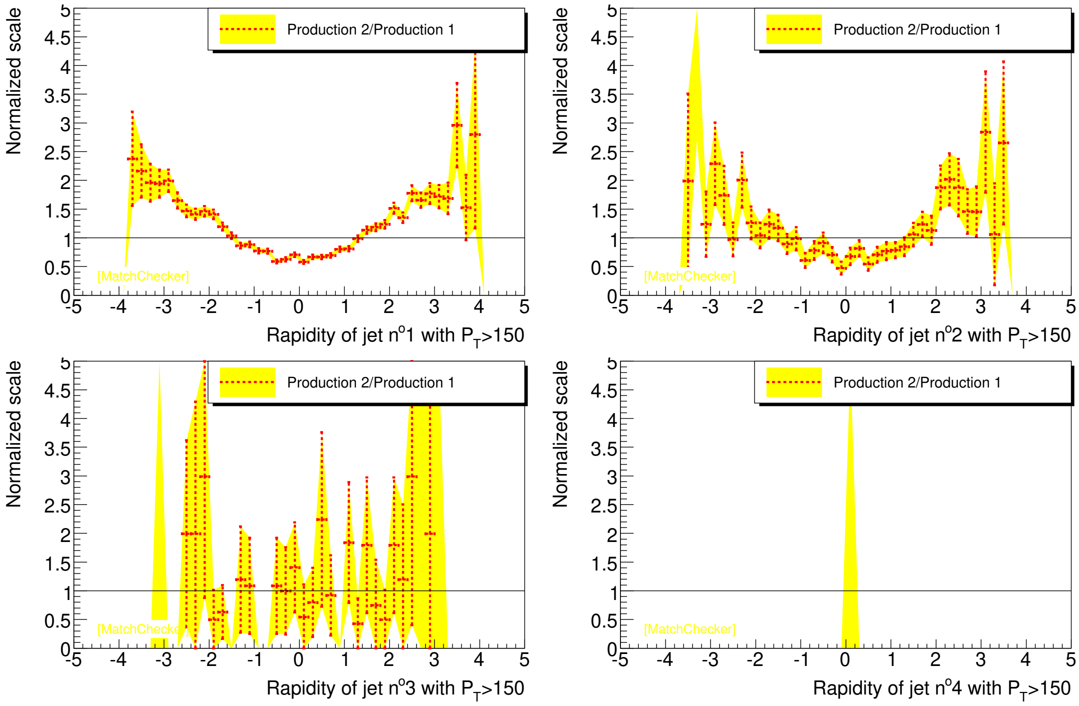

Figure 23: Comparison of kinematics variables for $t\bar{t}$.