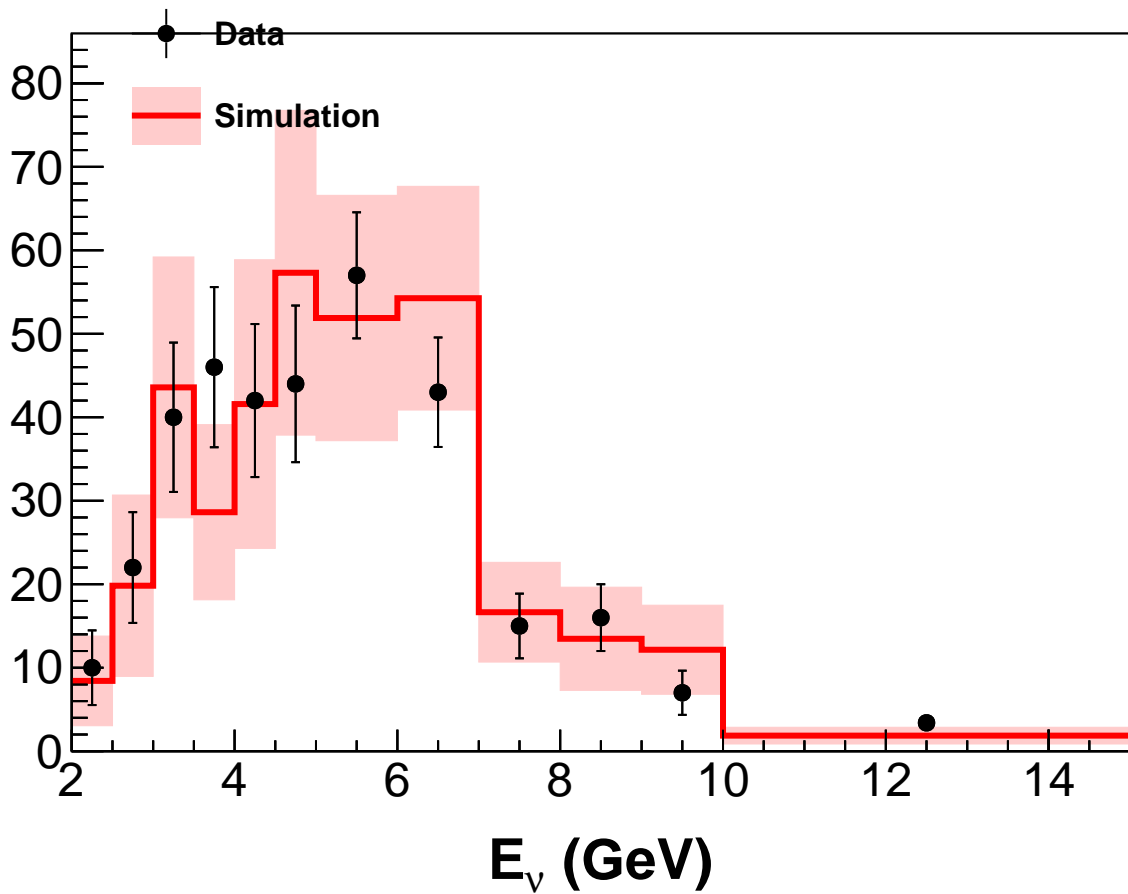
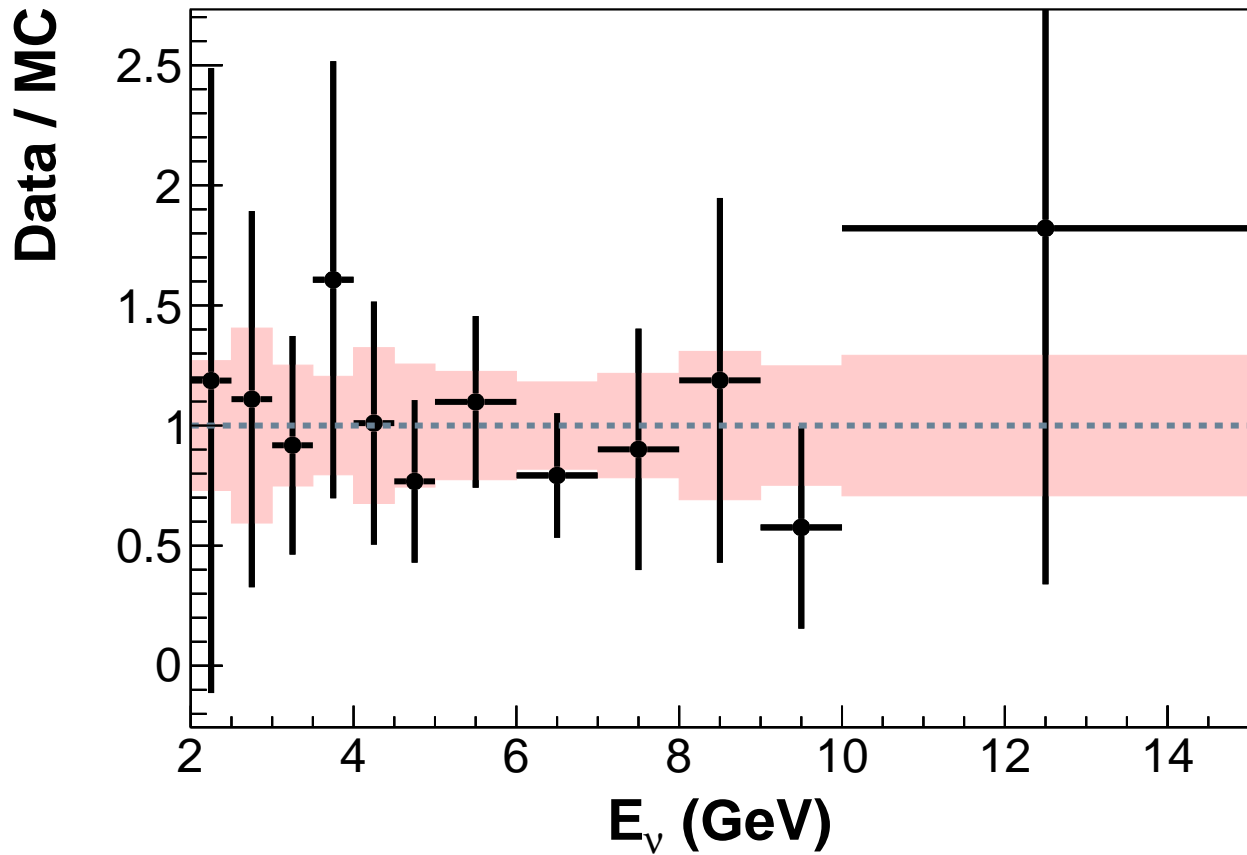


DATA_vs_MC

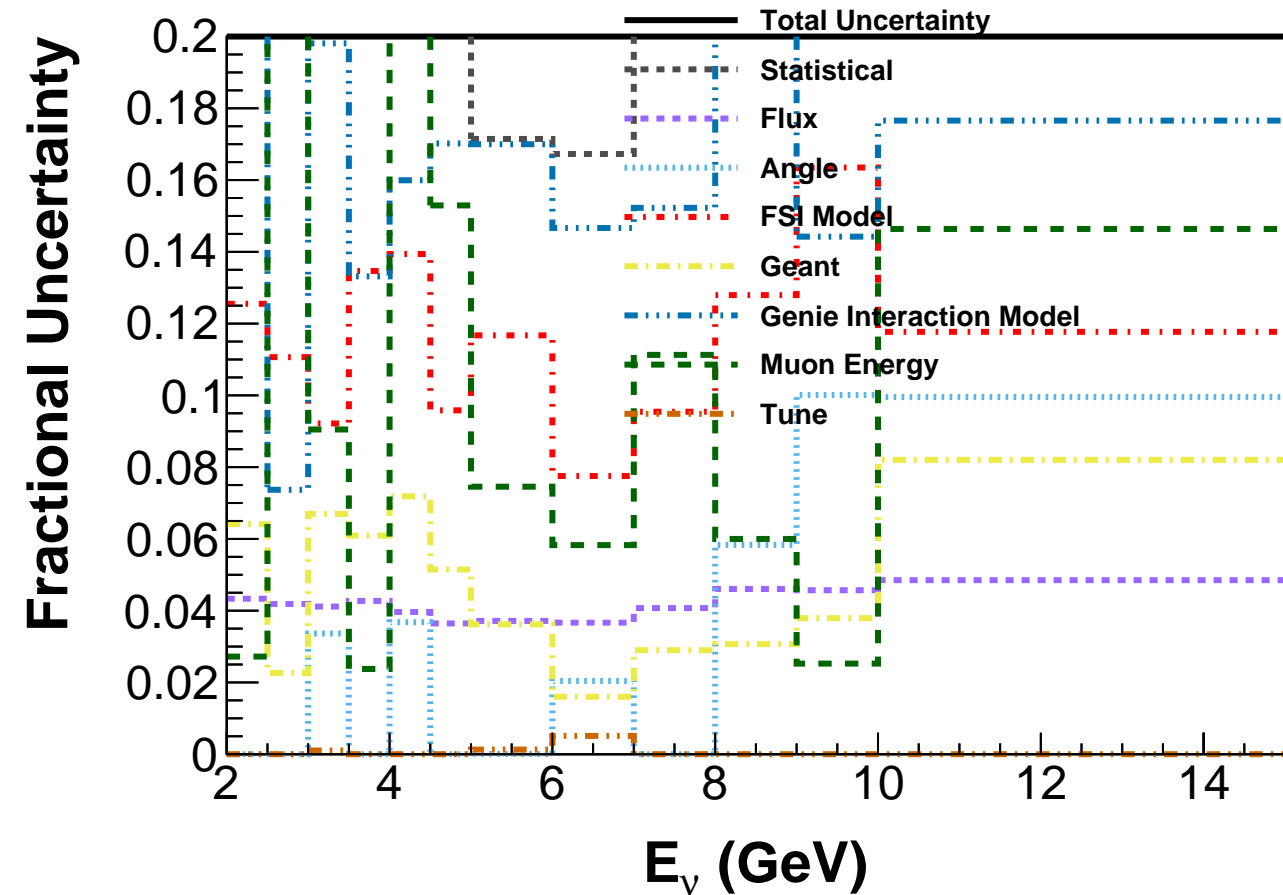
Counts per unit



DATA_vs_MC

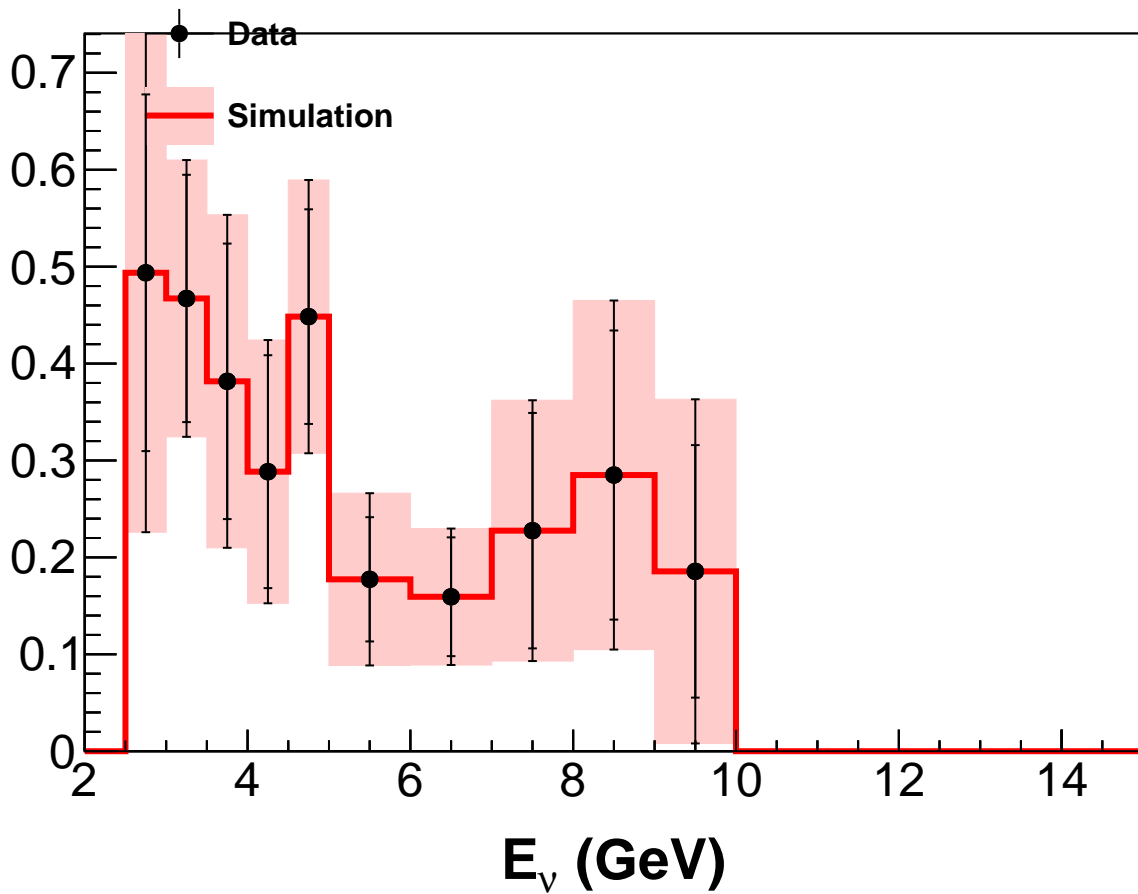


Raw MC Systematics



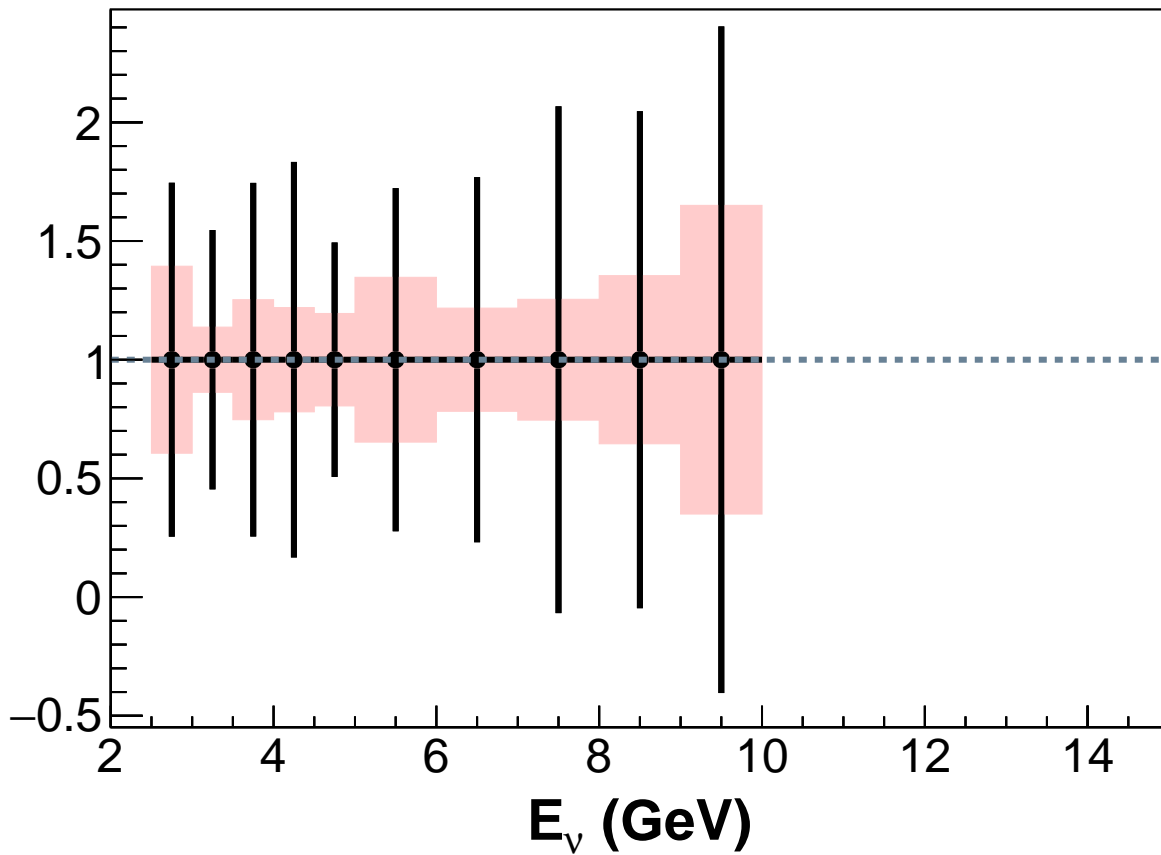
Signal Fraction

Counts per unit

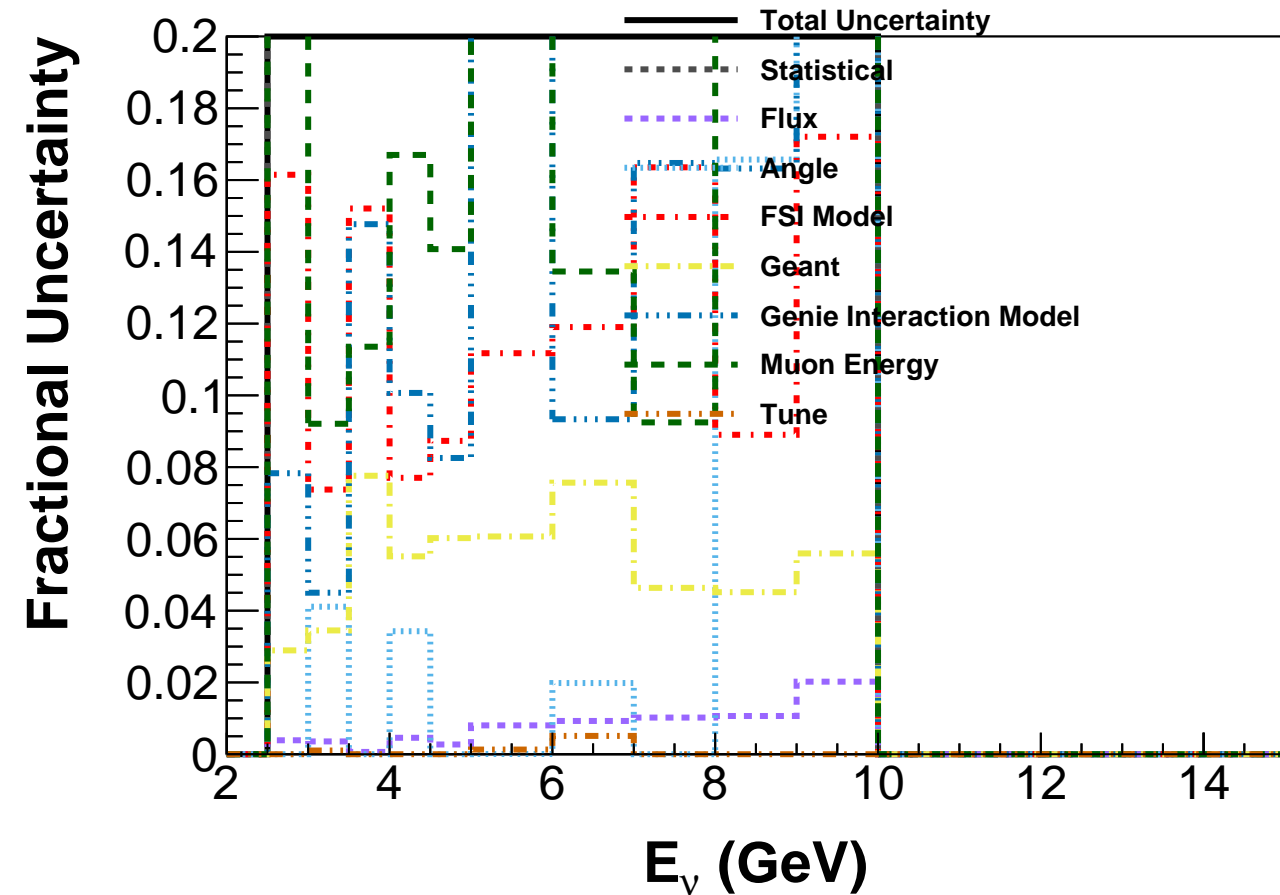


Signal Fraction

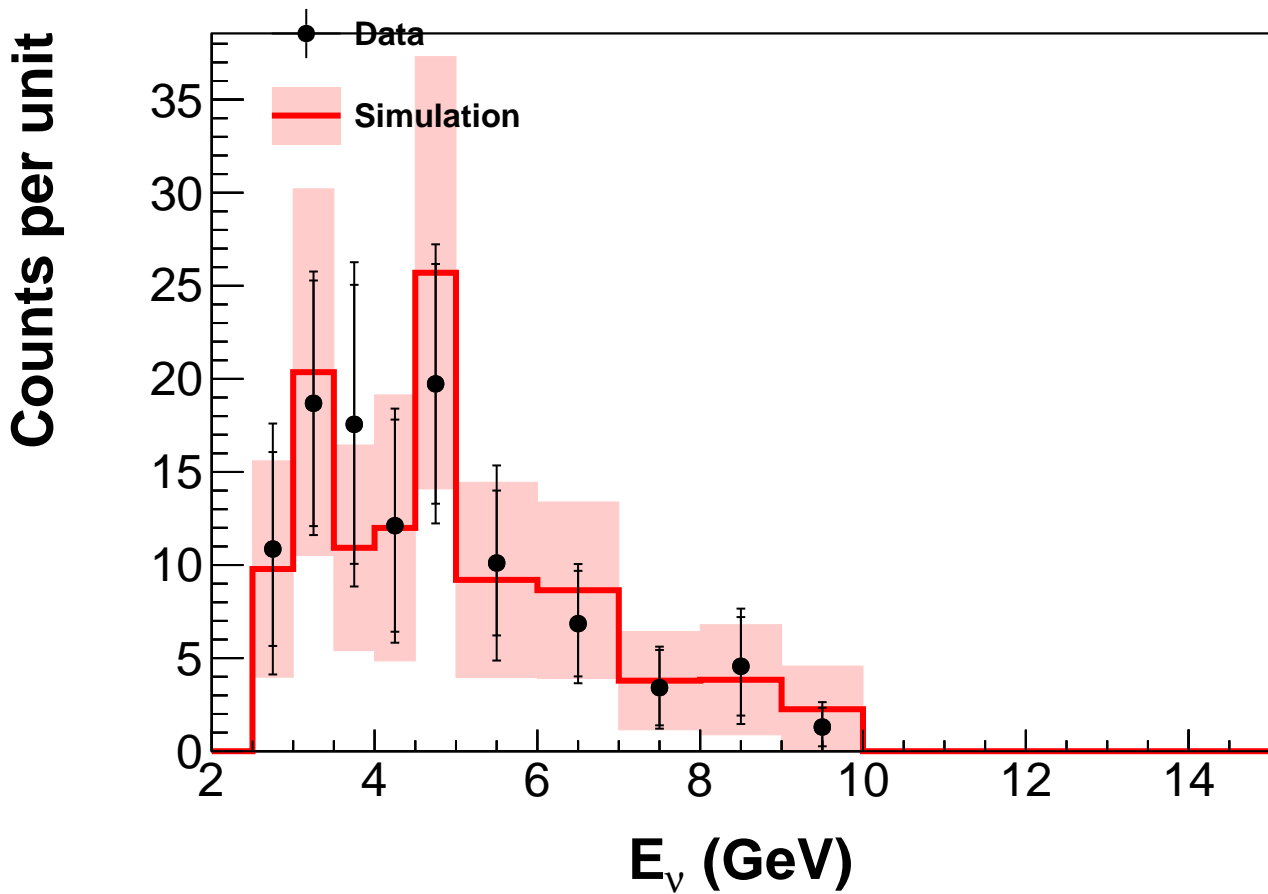
Data / MC



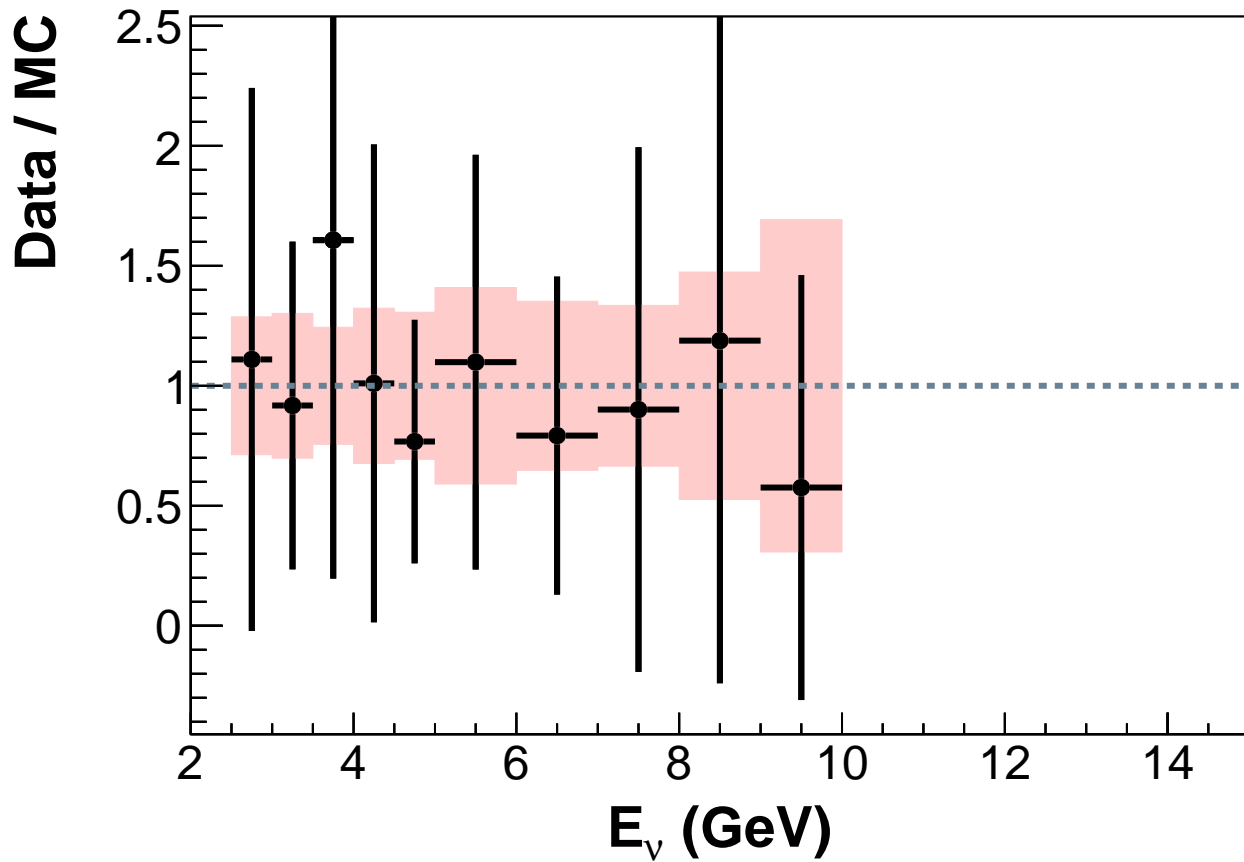
Signal Fraction Systematics



BKGsub vs. MC signal



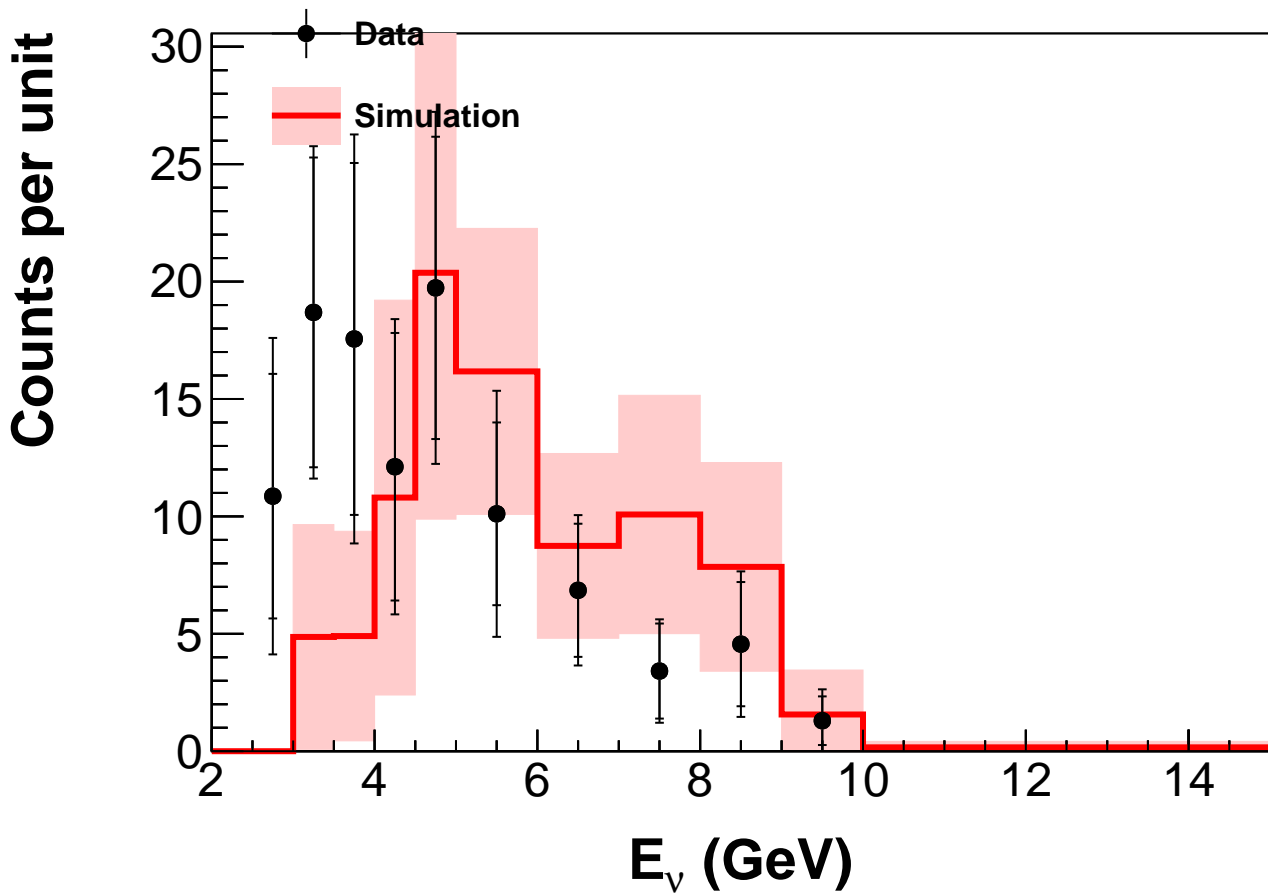
BKGsub vs. MC signal



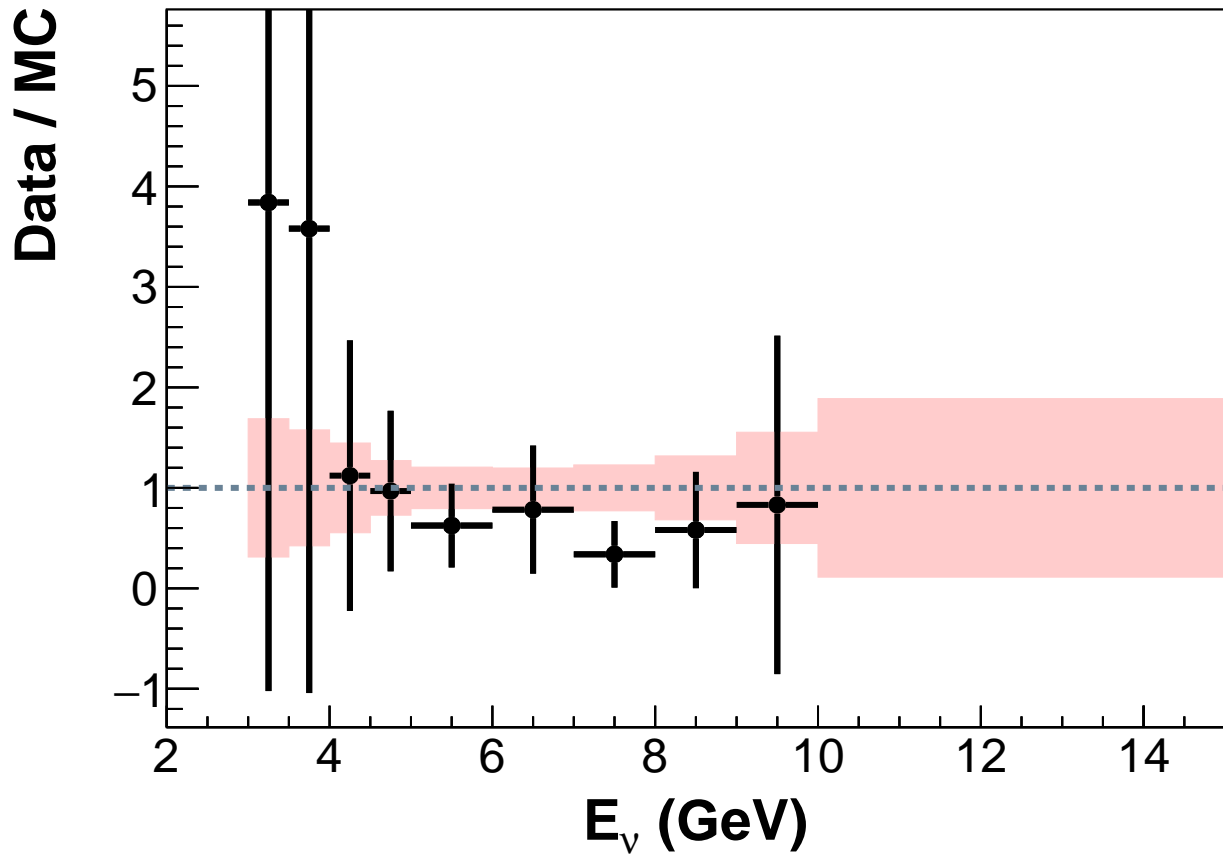
BKGsub Systematics



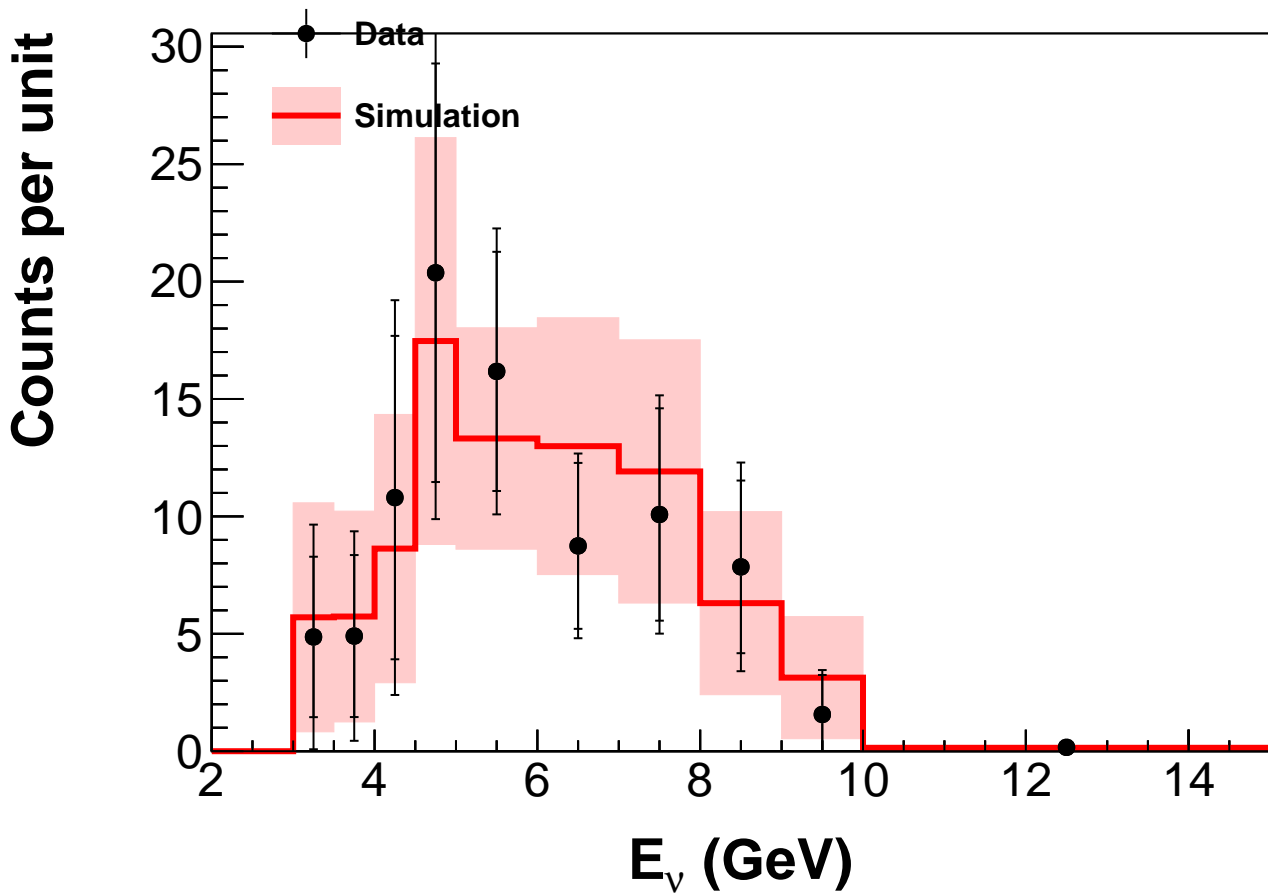
Data Before and After Unsmearing



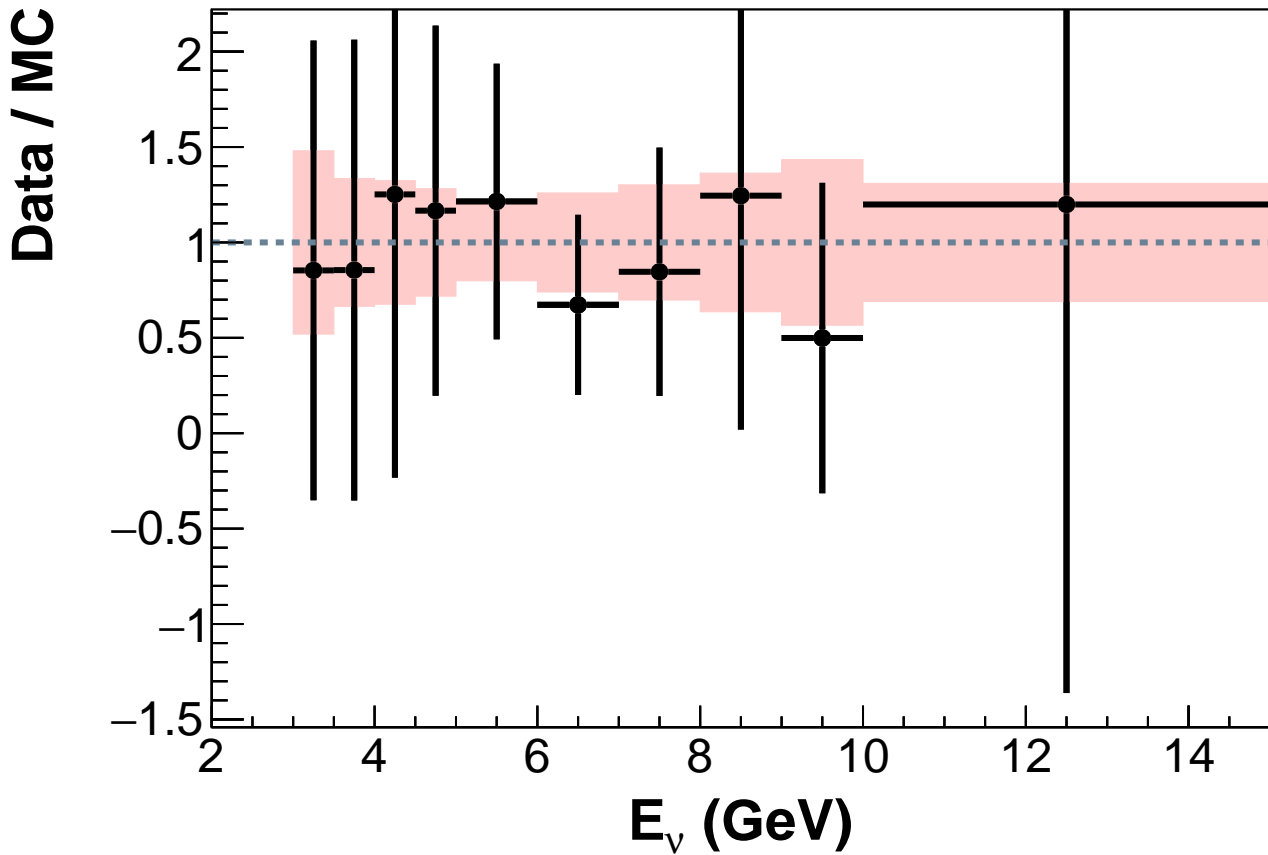
Data Before and After Unsmearing



Unsmeared Data Compared to Selected MC



Unsmeared Data Compared to Selected MC



Unsmeared Data Systematics



—— Total Uncertainty

Statistical

Flux

Angle

FSI Model

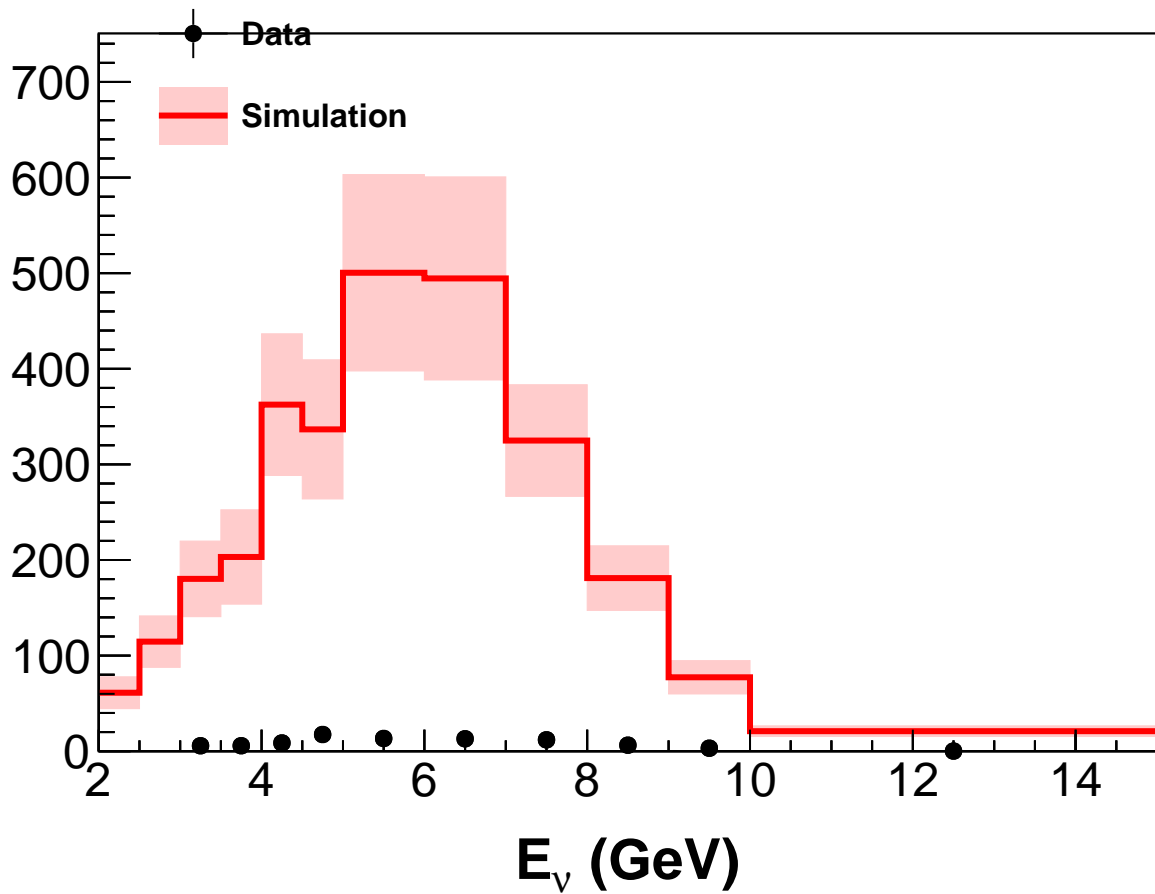
Geant

Genie Interaction Model

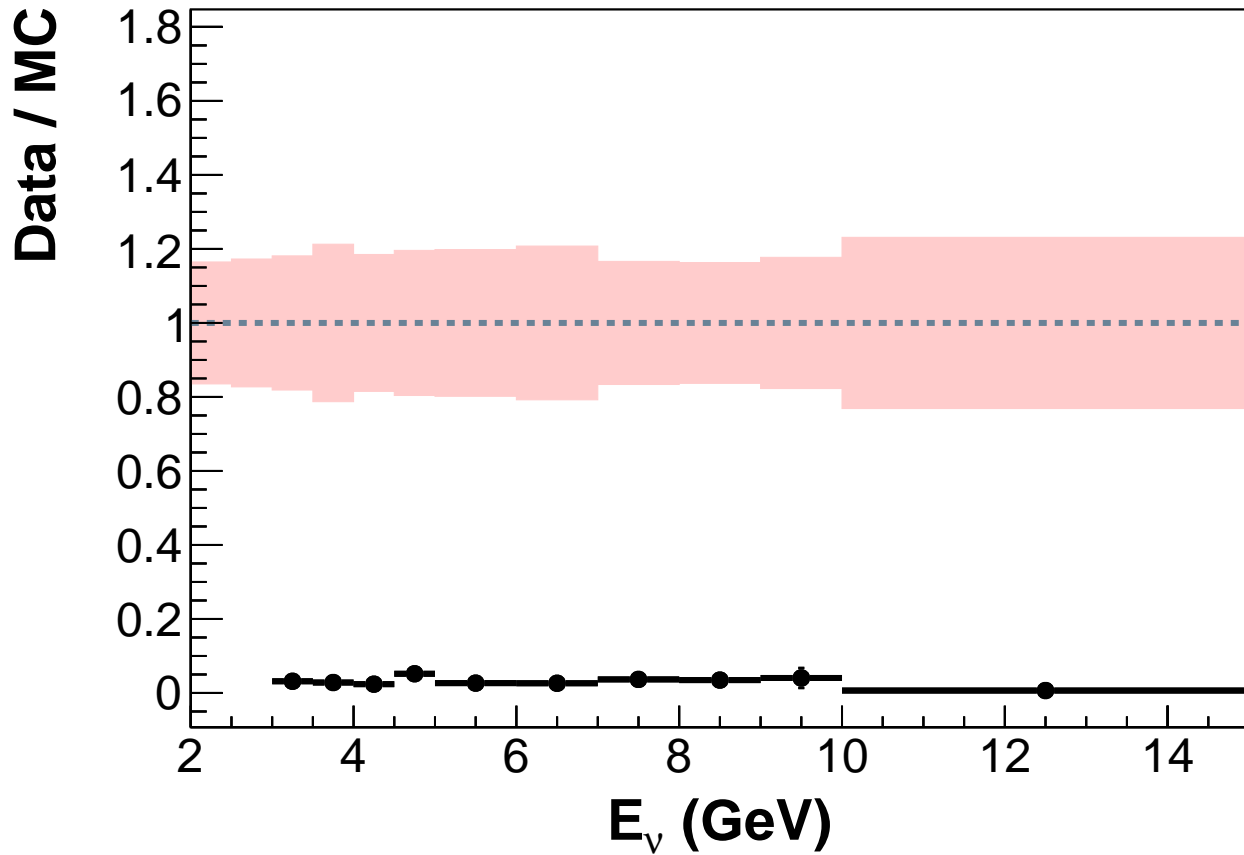
Milen Energy

efficiency: selected and true

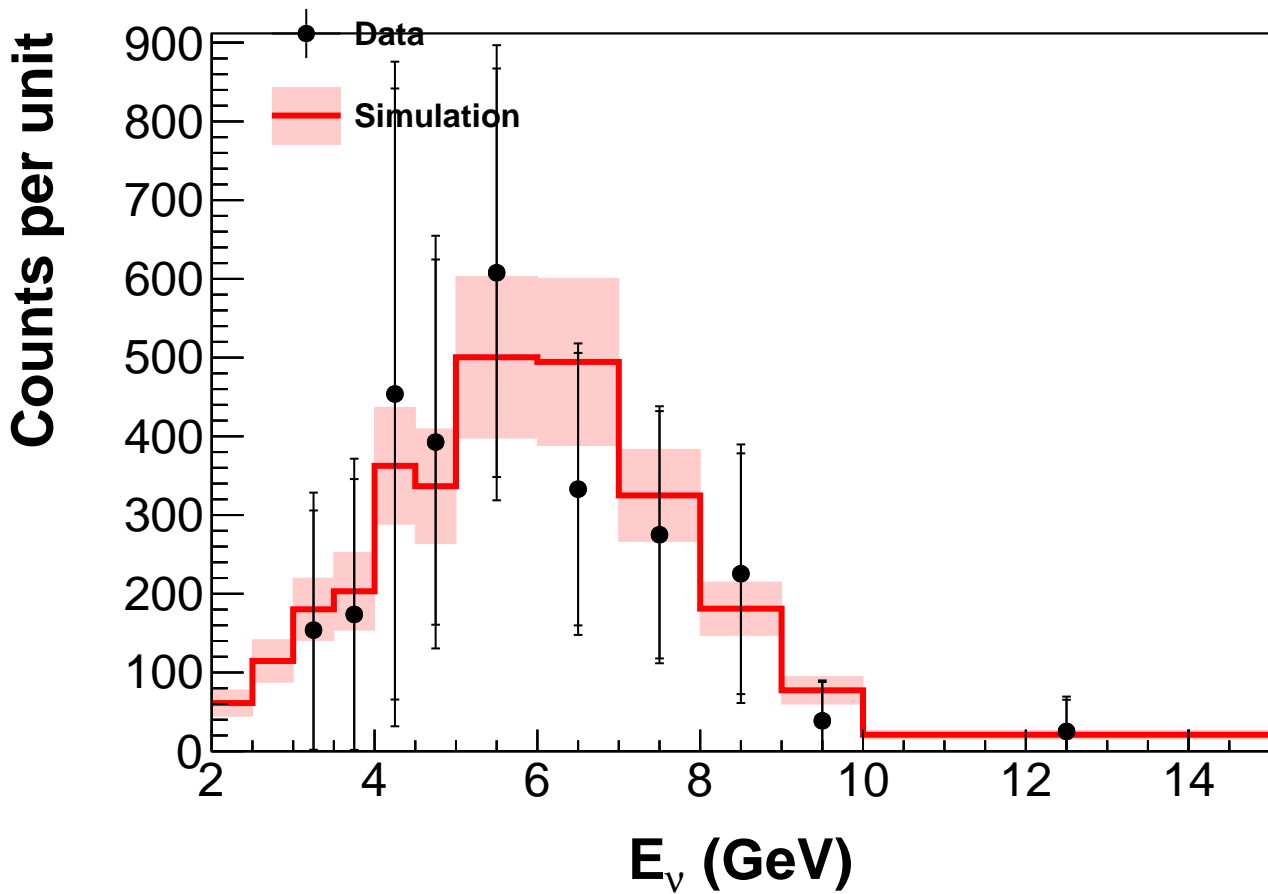
Counts per unit



efficiency: selected and true

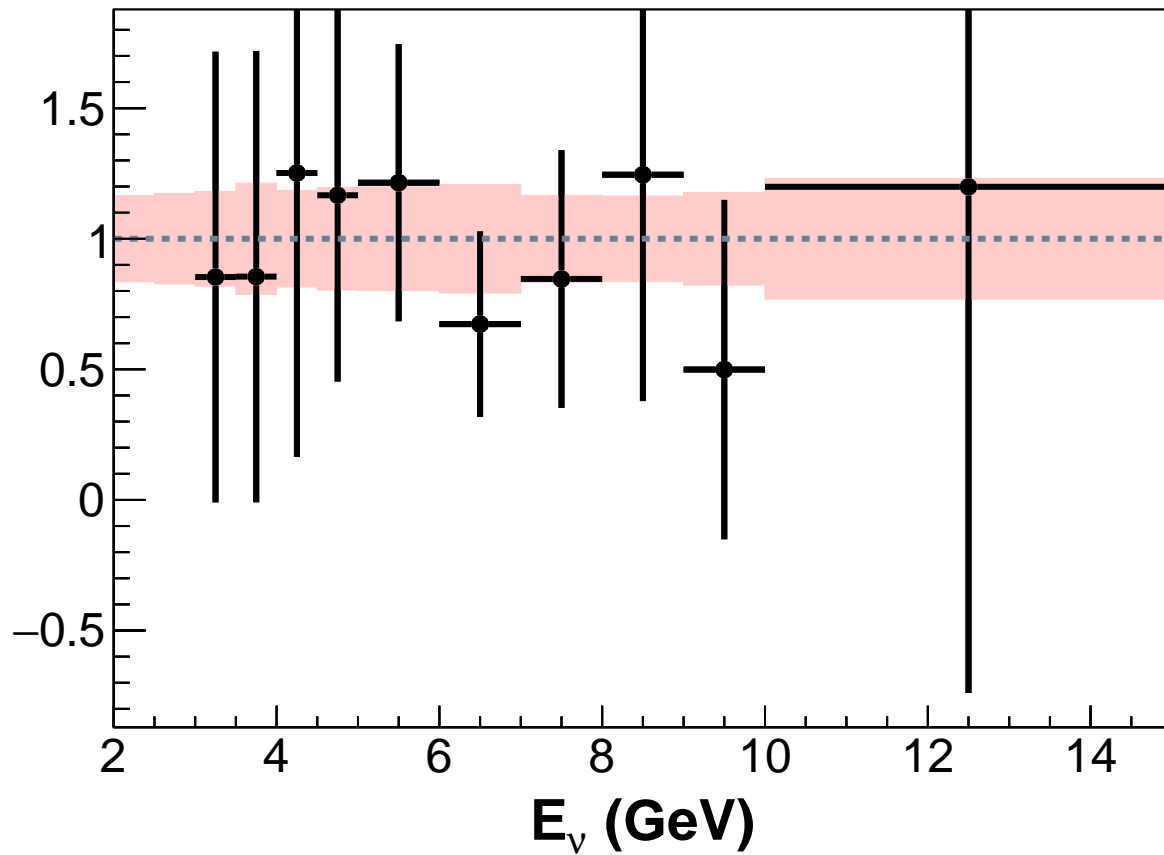


effcorr data vs truth

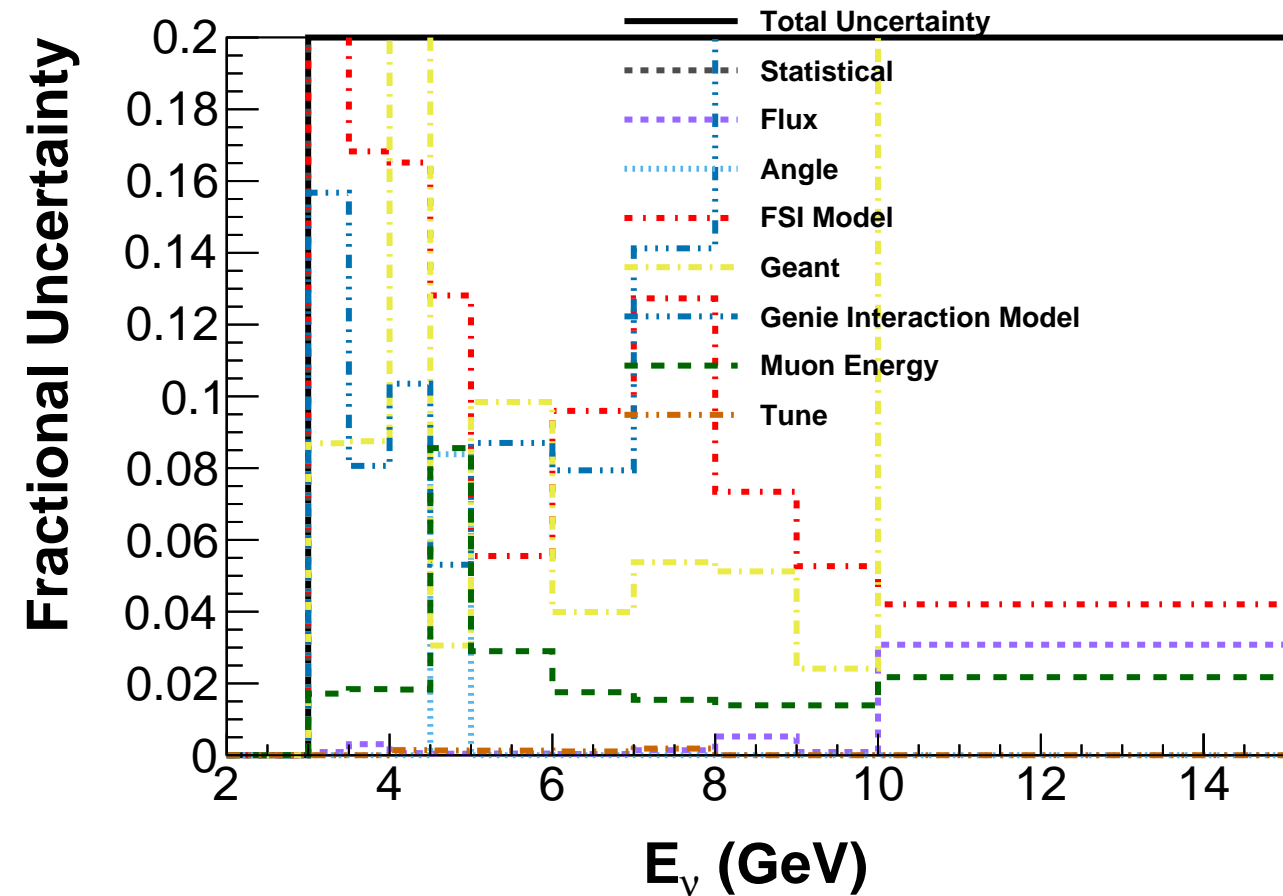


effcorr data vs truth

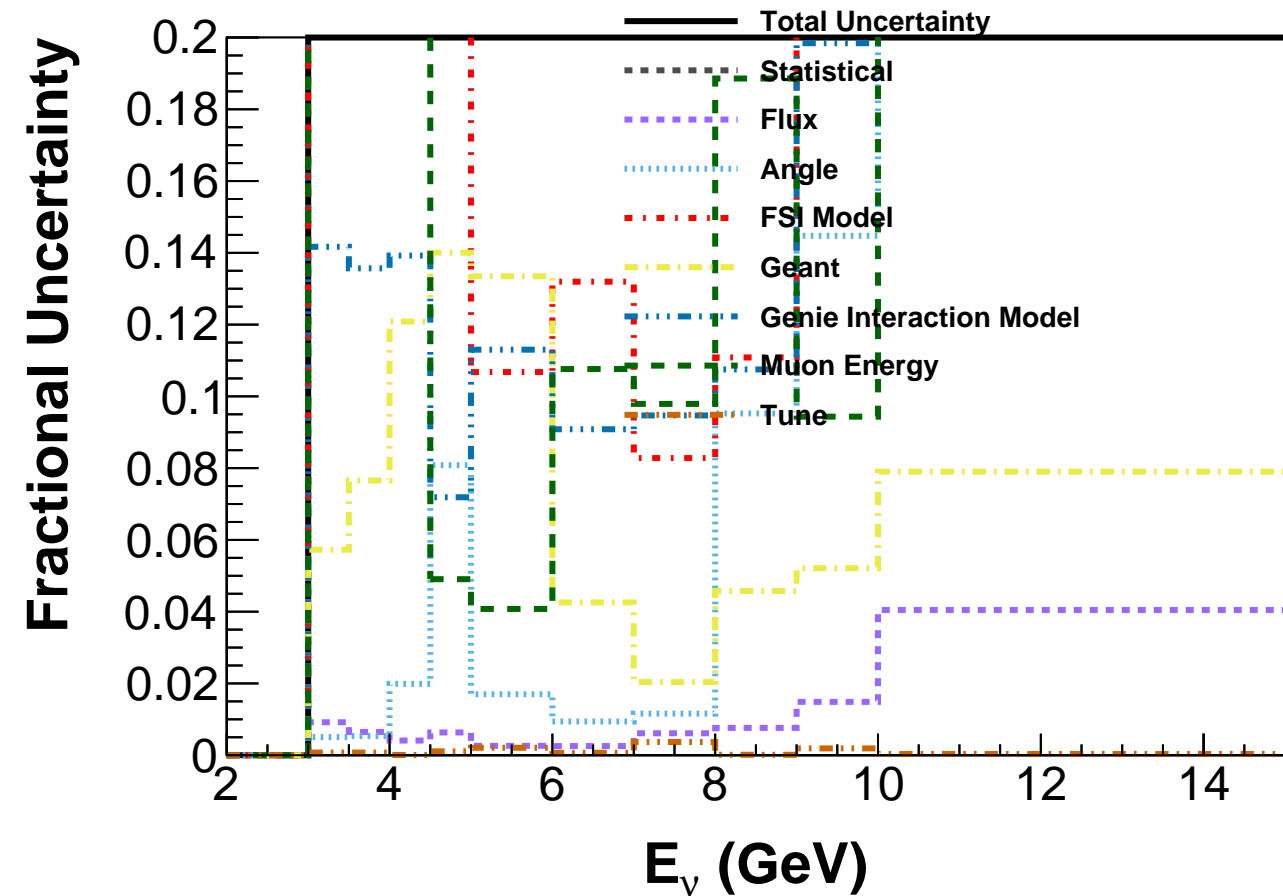
Data / MC



Efficiency Factor Systematics

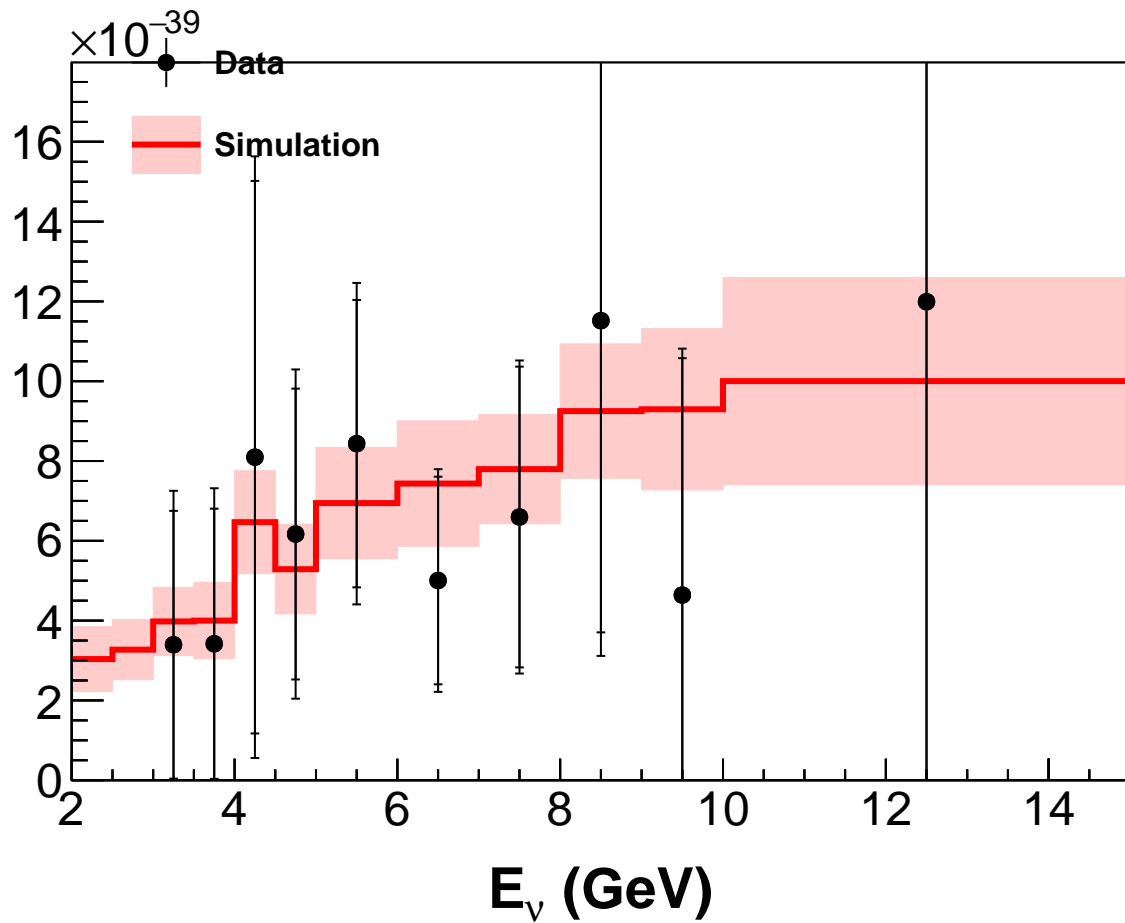


Efficiency Corrected Data Systematics



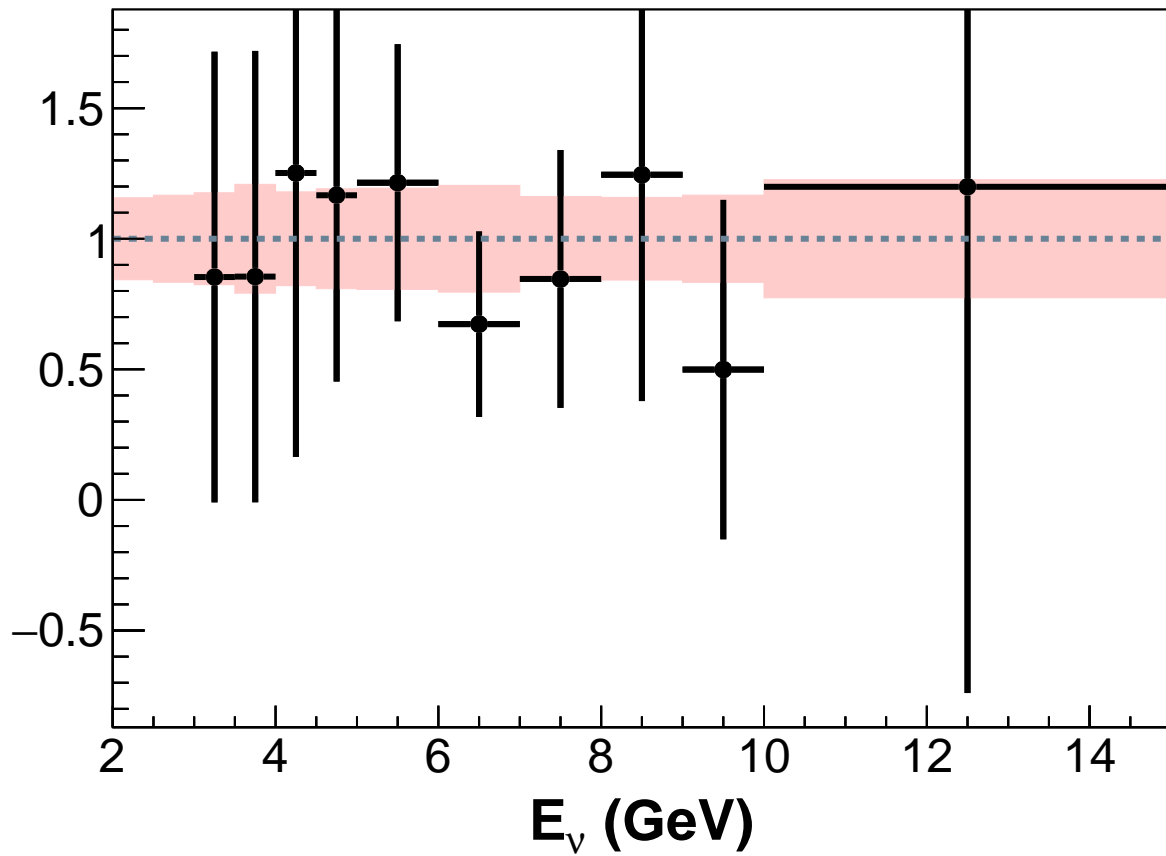
sigma

Counts per unit



sigma

Data / MC



Cross Section Systematics



Statistical

Flux

Angle

FSI Model

Geant

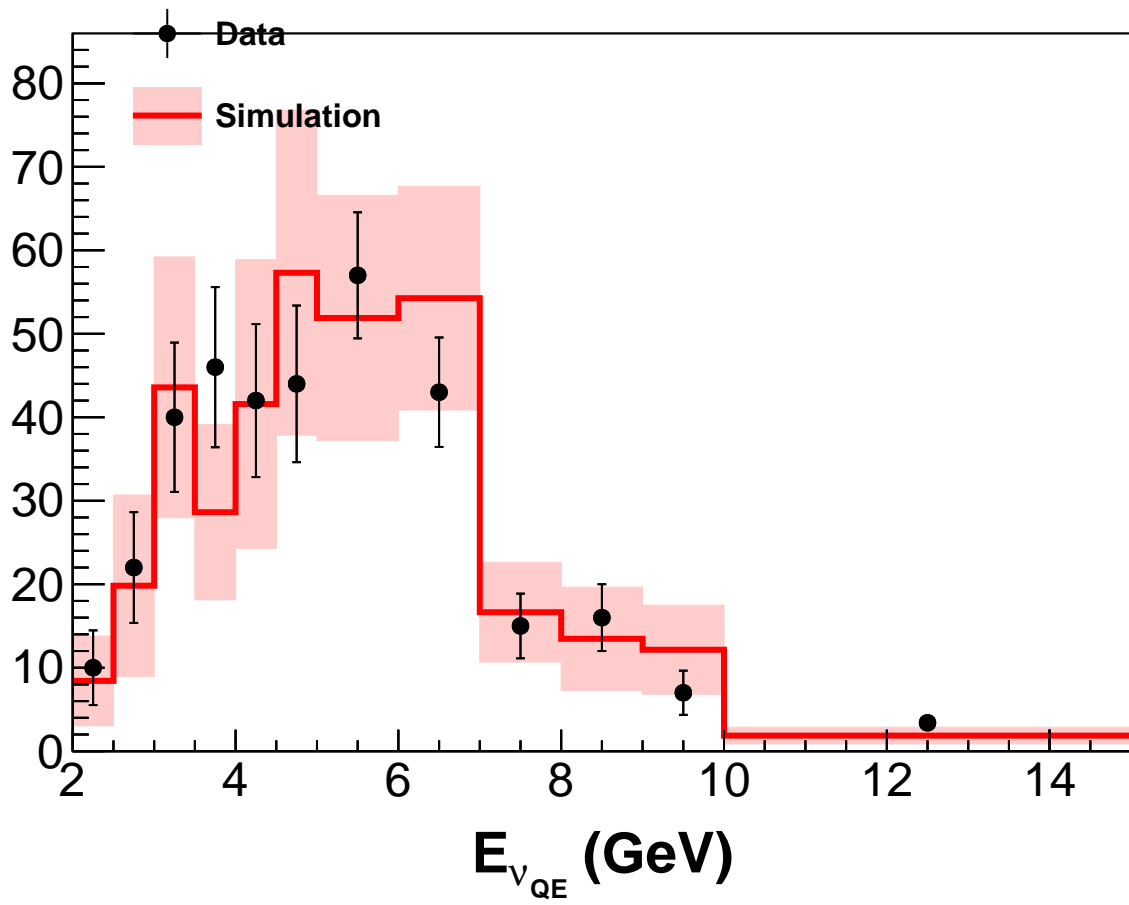
Genie Interaction Model

Milion Energy

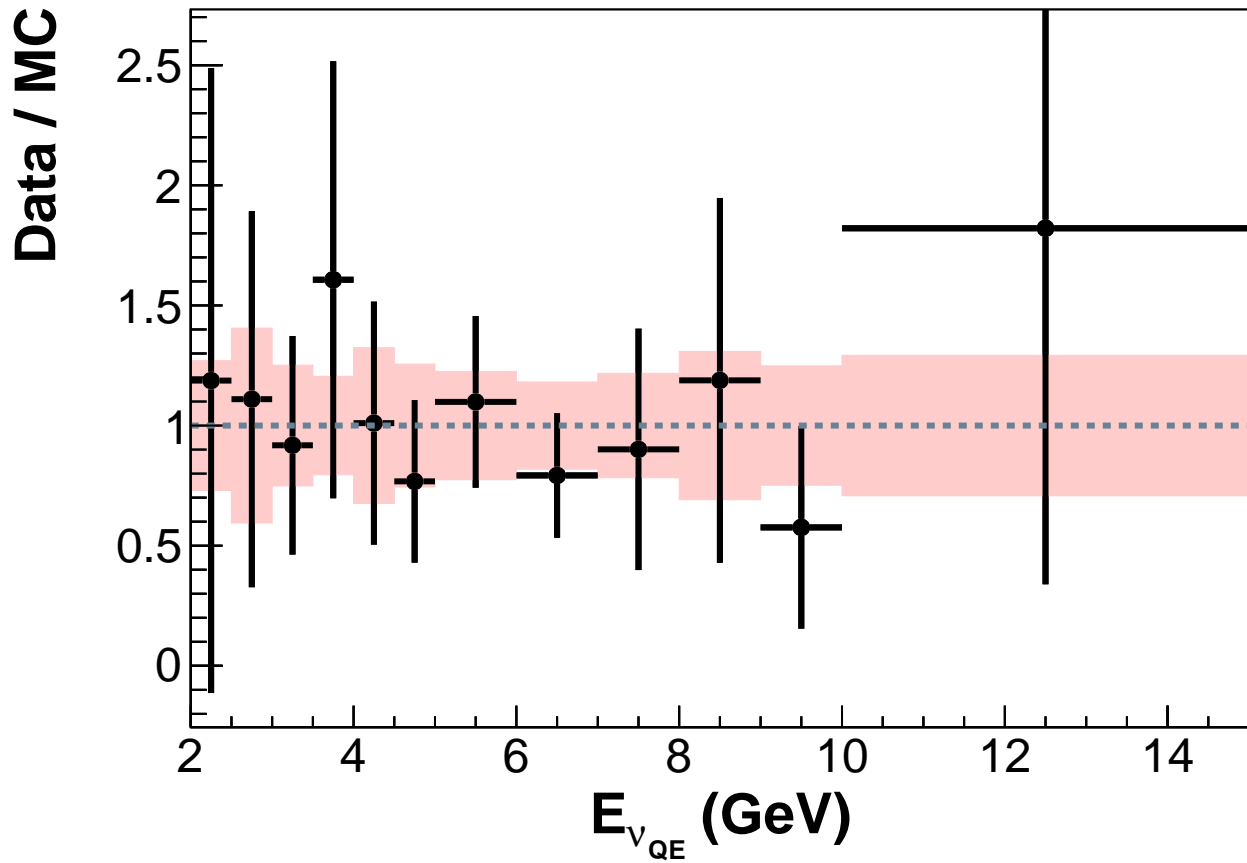
Time

DATA_vs_MC

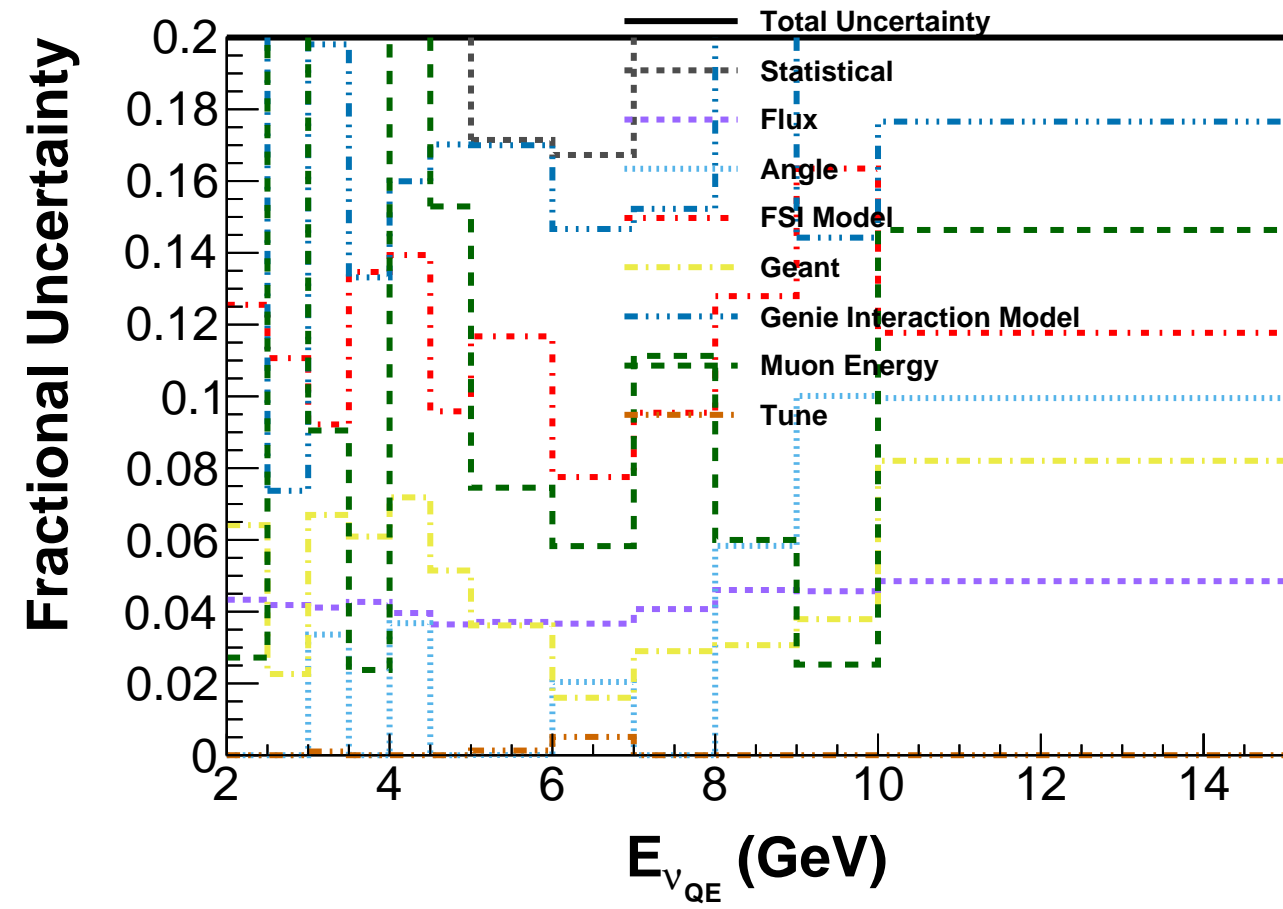
Counts per unit



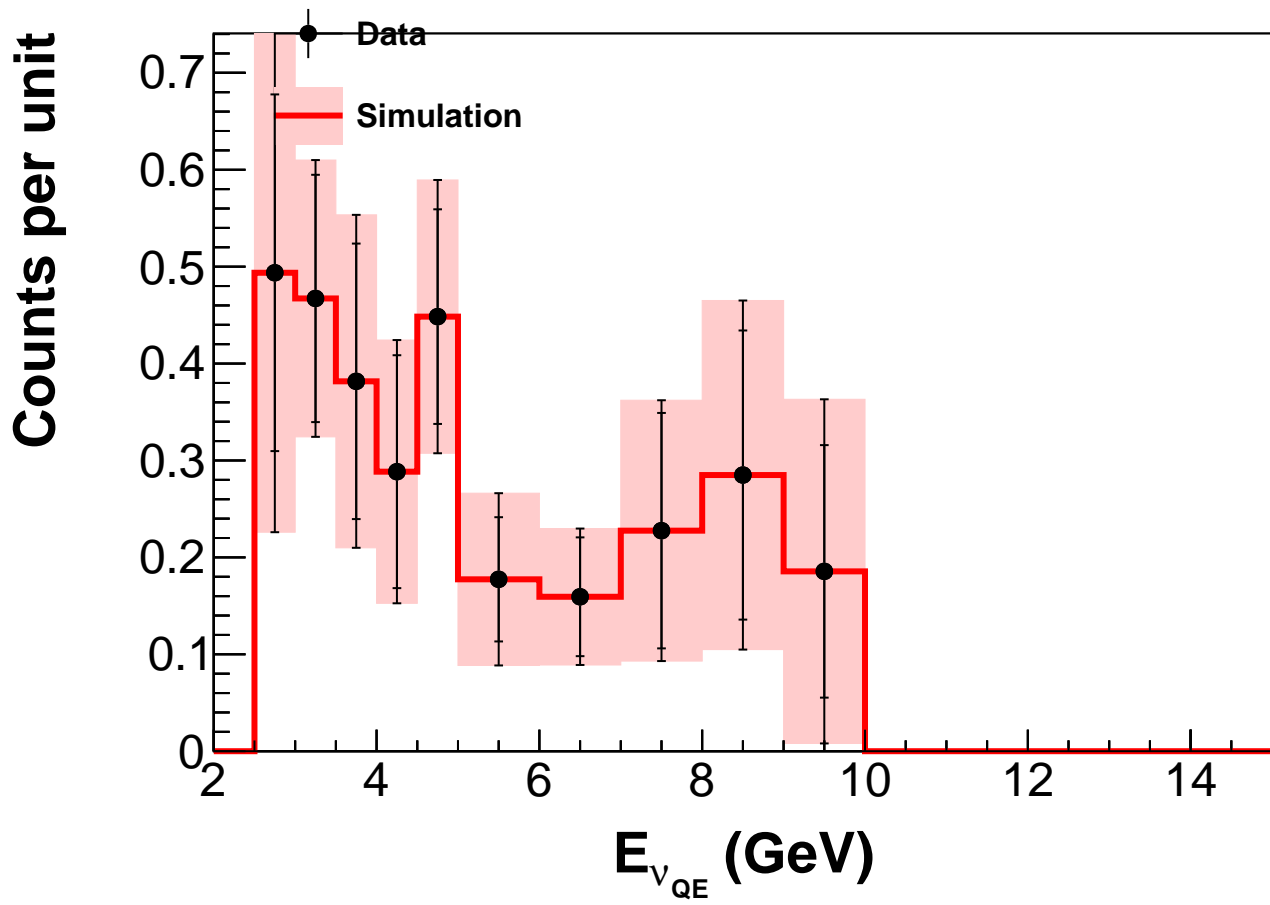
DATA_vs_MC



Raw MC Systematics

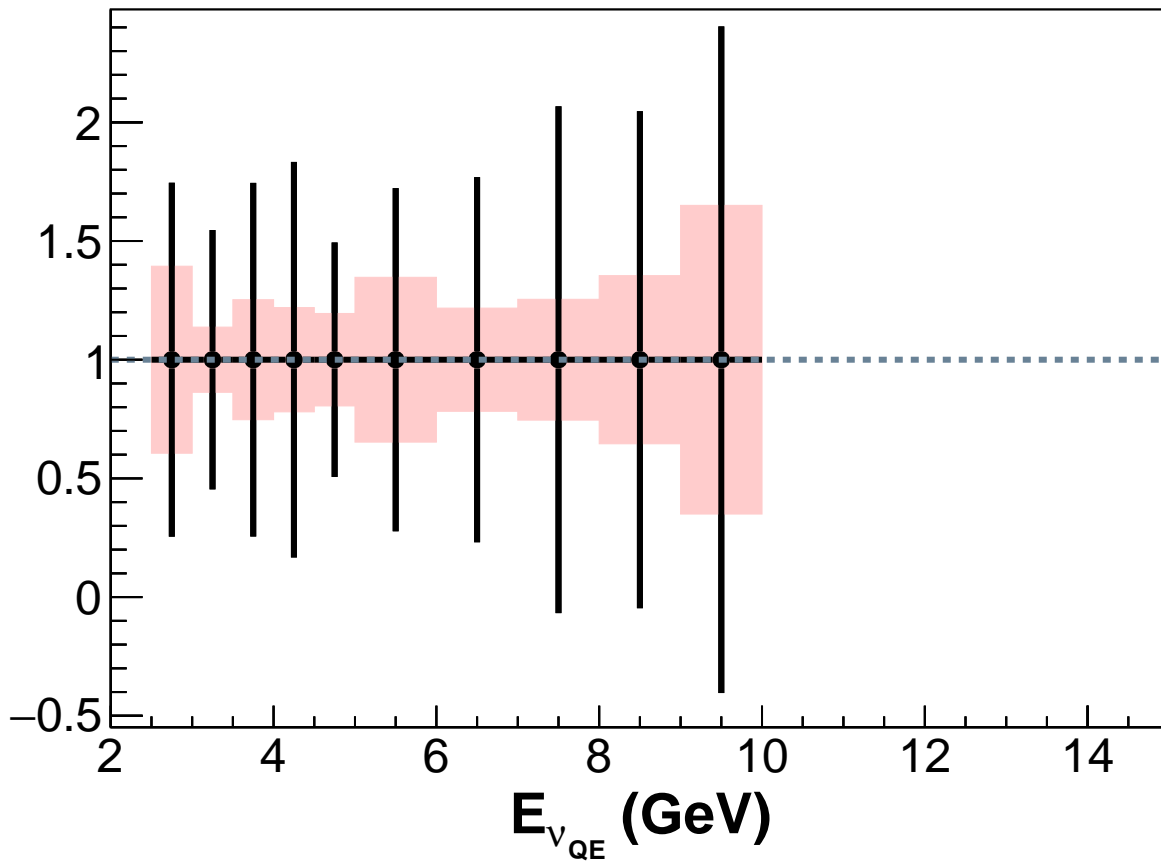


Signal Fraction

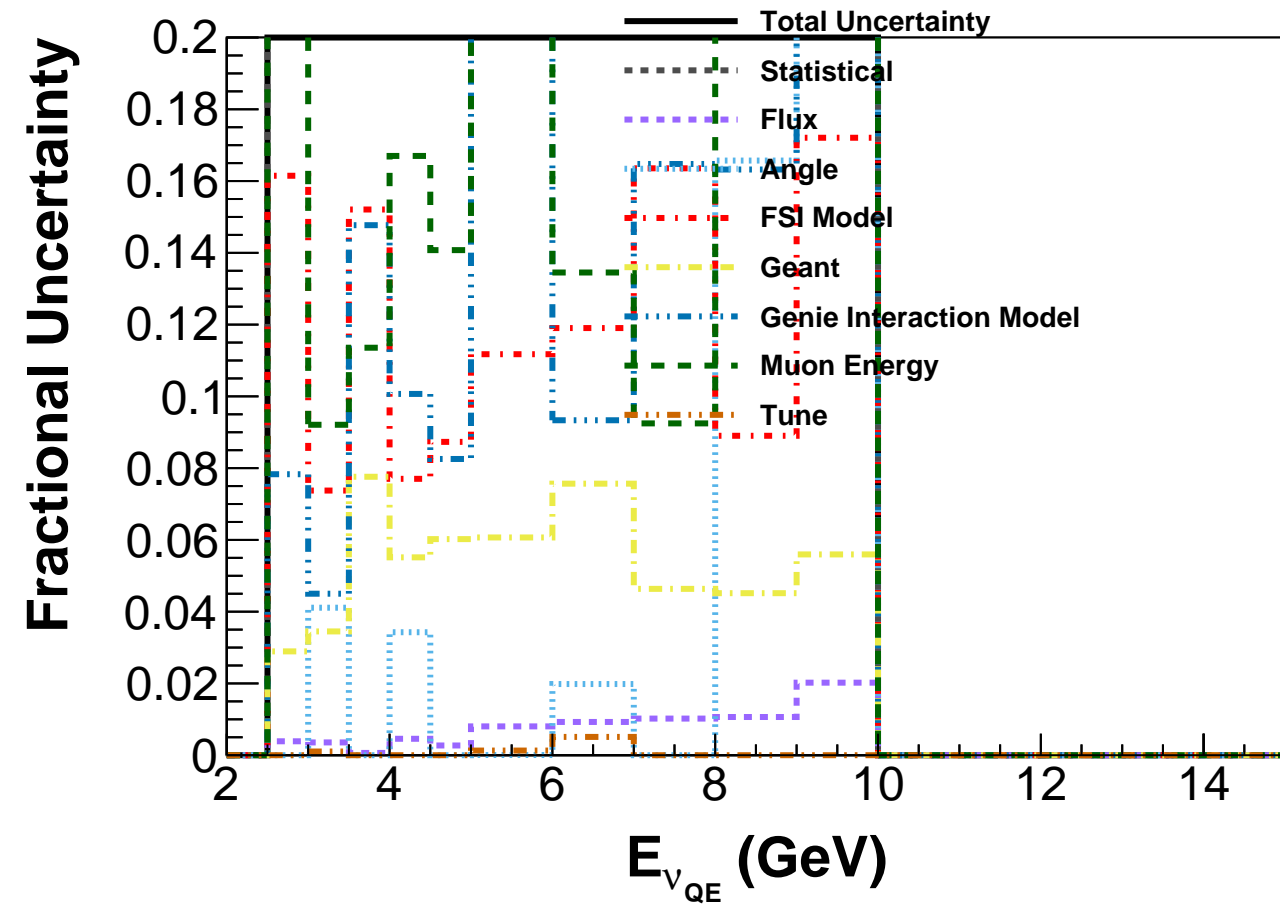


Signal Fraction

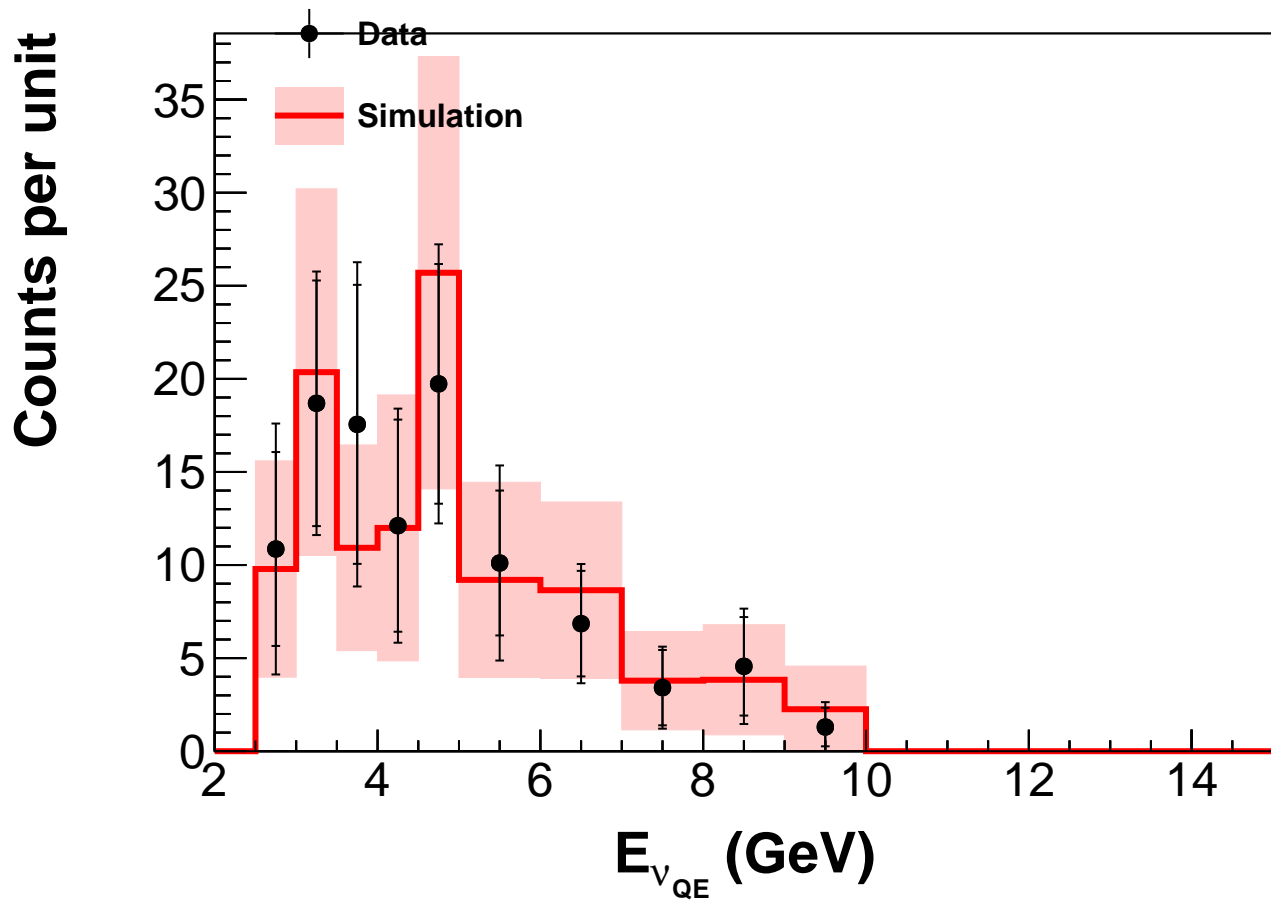
Data / MC



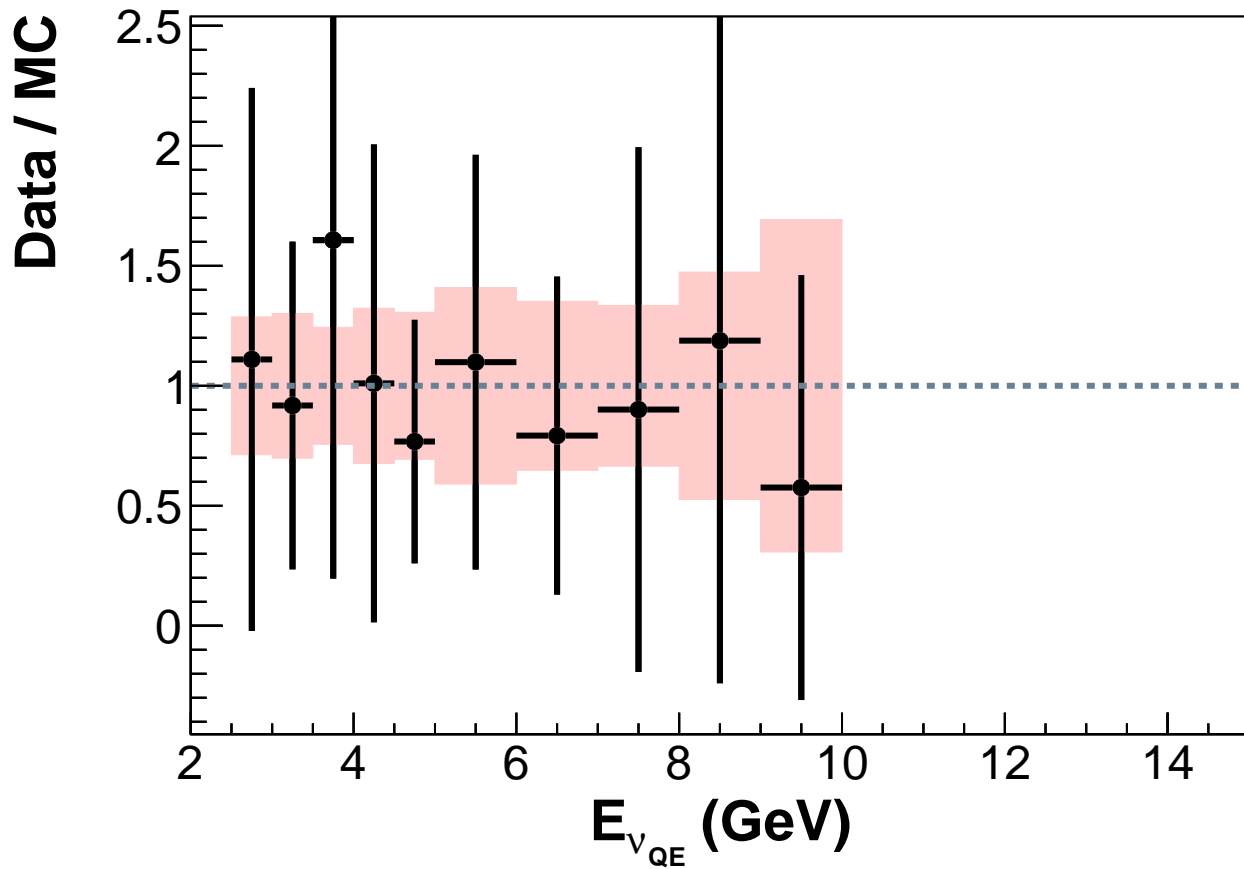
Signal Fraction Systematics



BKGsub vs. MC signal



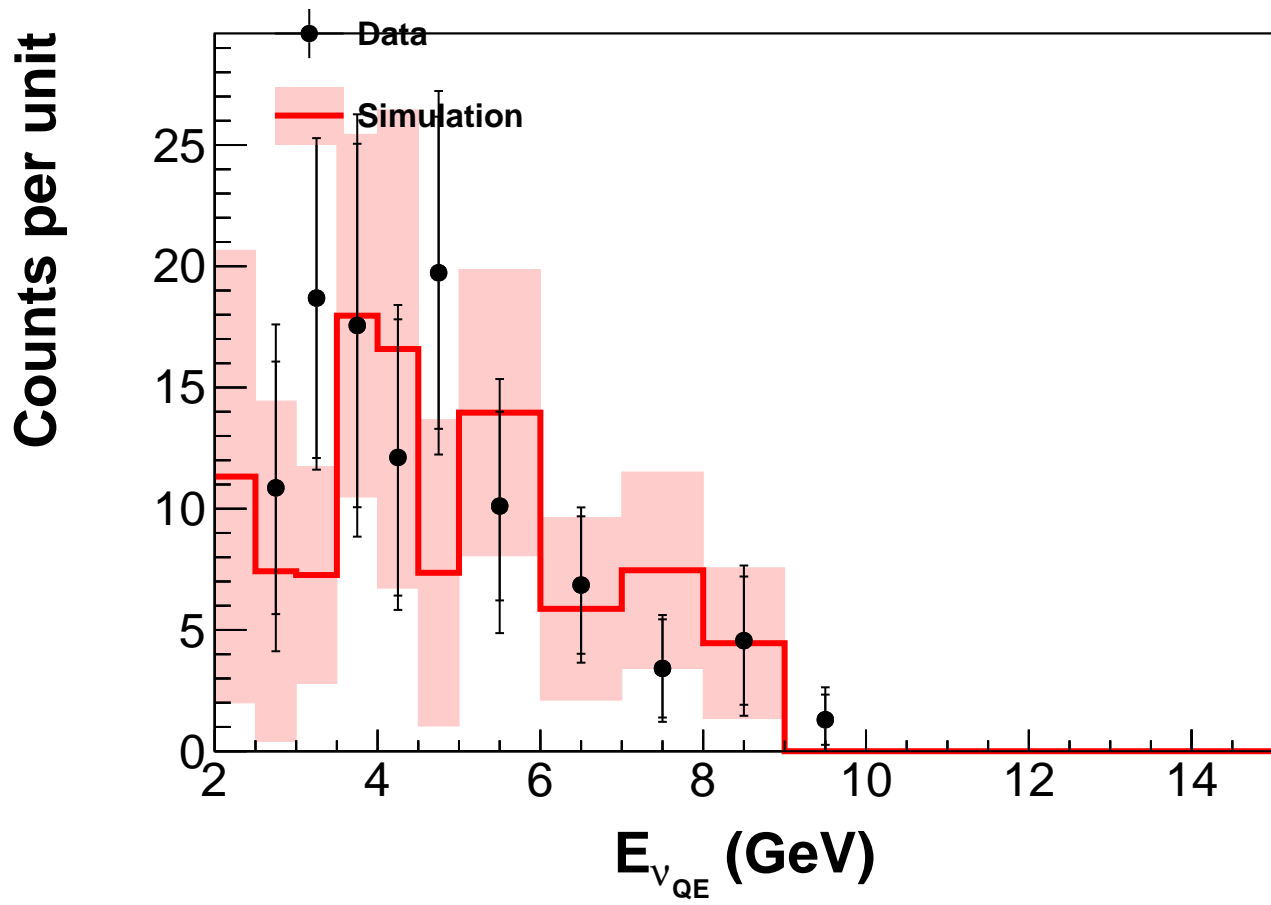
BKGsub vs. MC signal



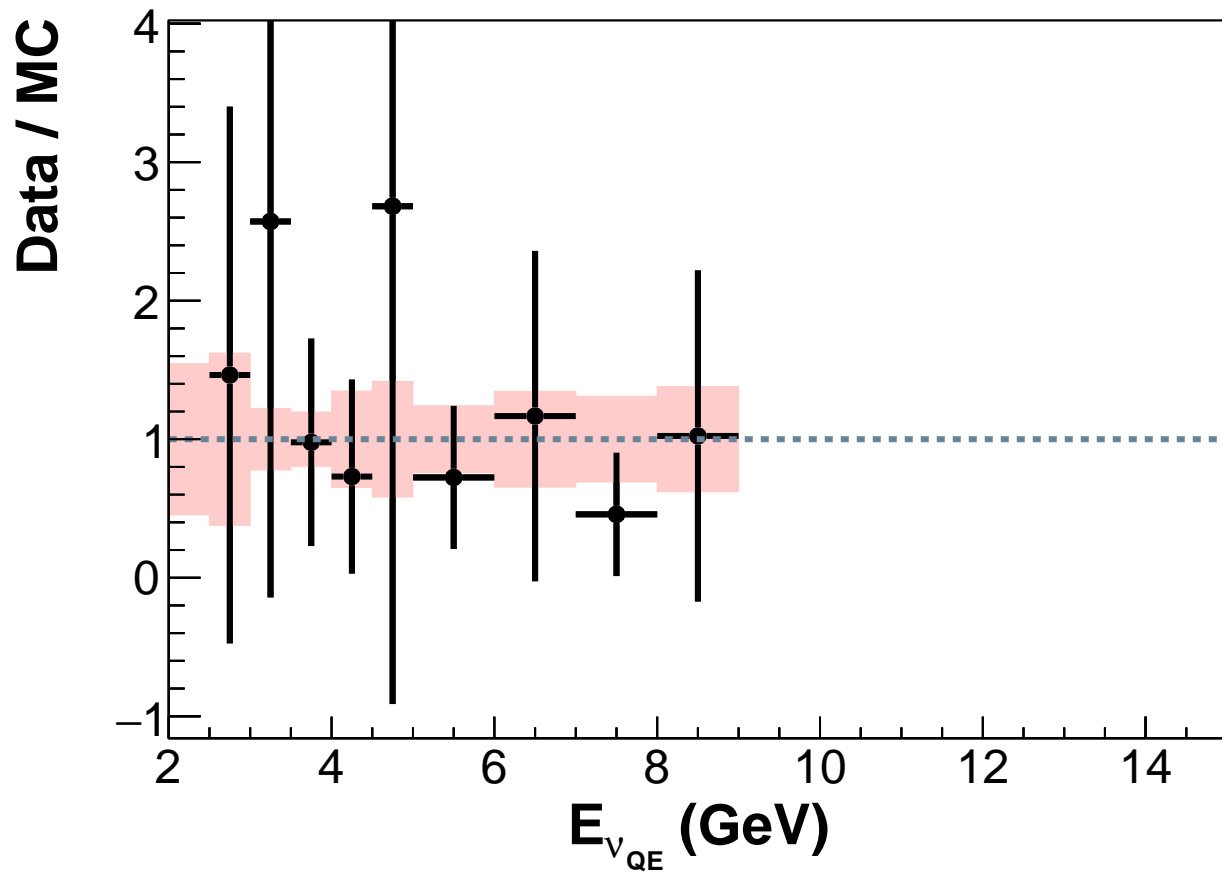
BKGsub Systematics

 $E_{\nu_{QE}}$ (GeV)

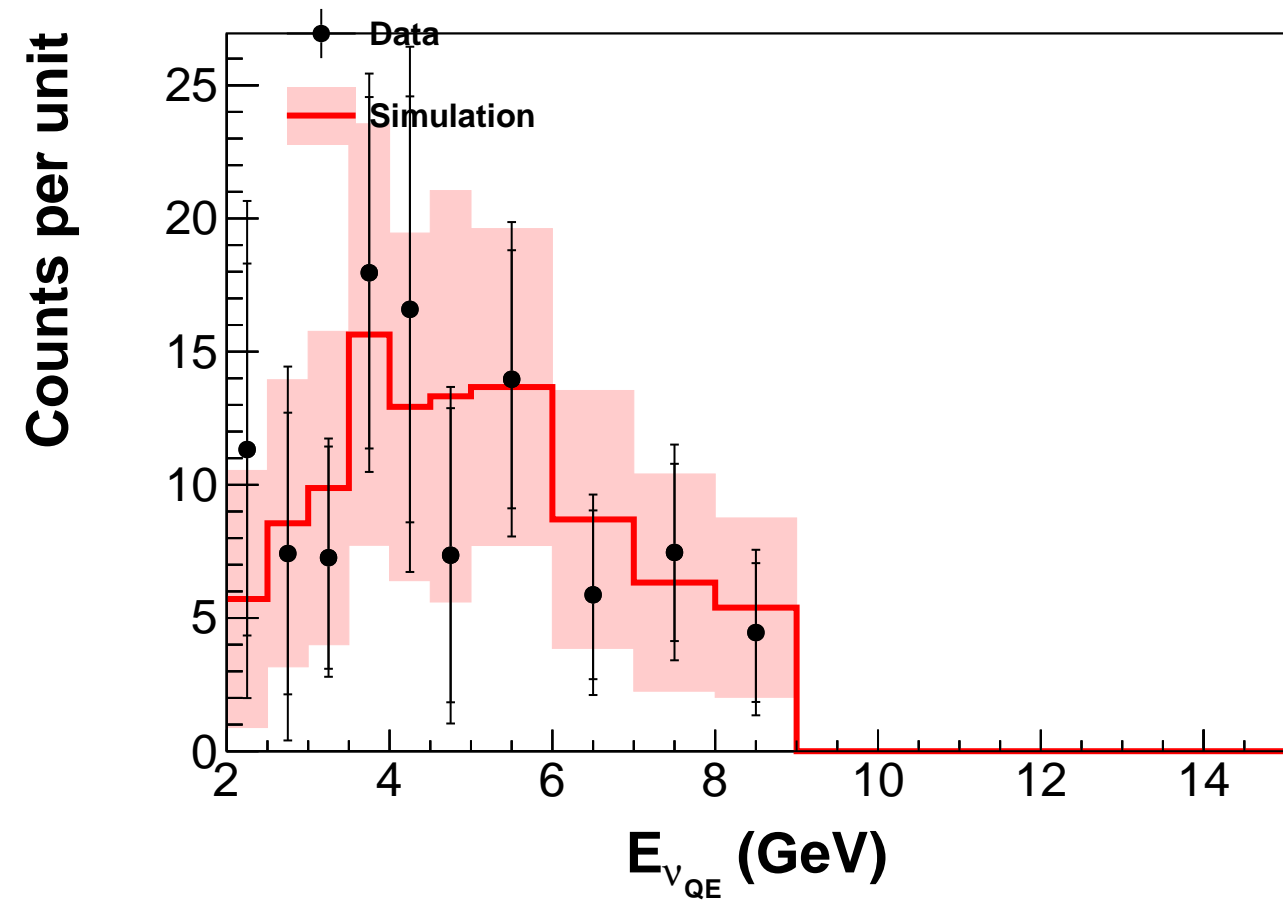
Data Before and After Unsmearing



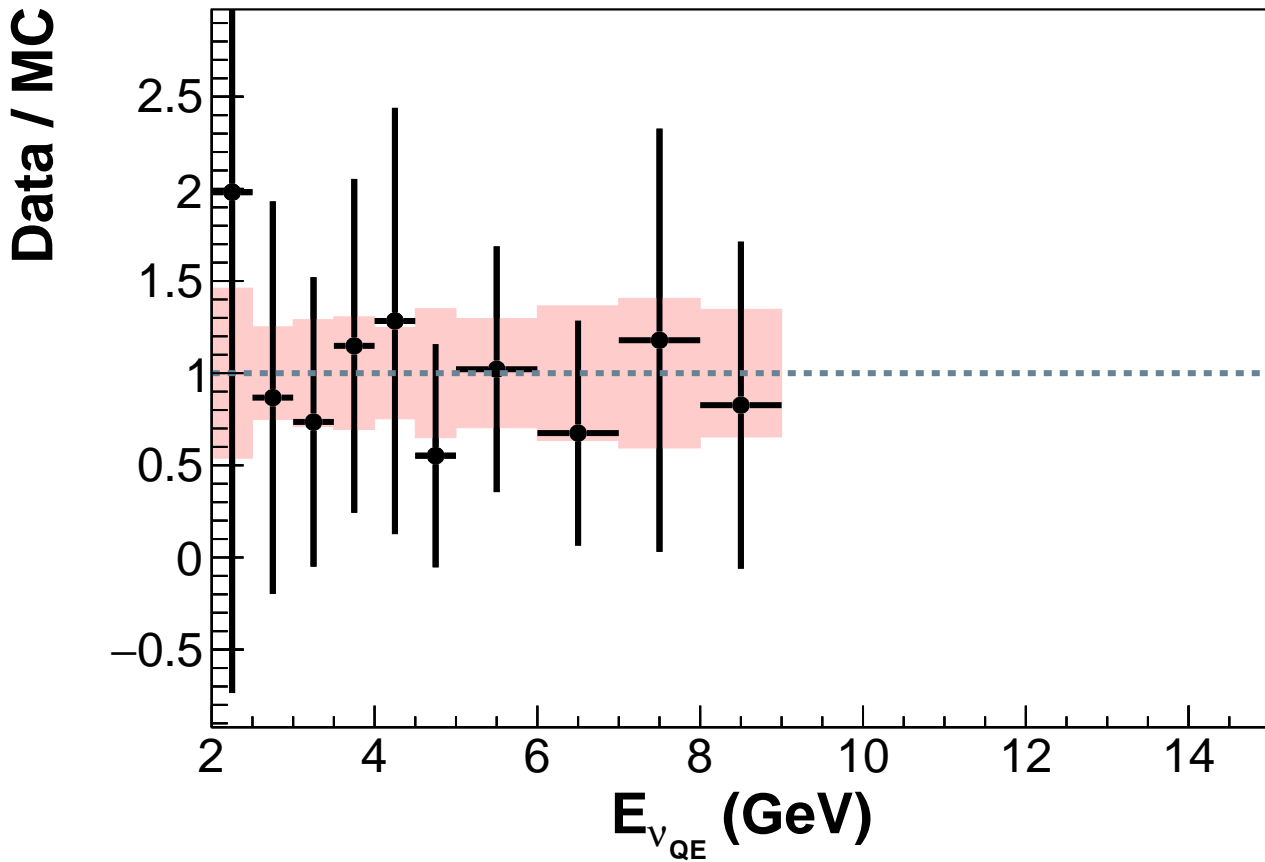
Data Before and After Unsmearing



Unsmeared Data Compared to Selected MC



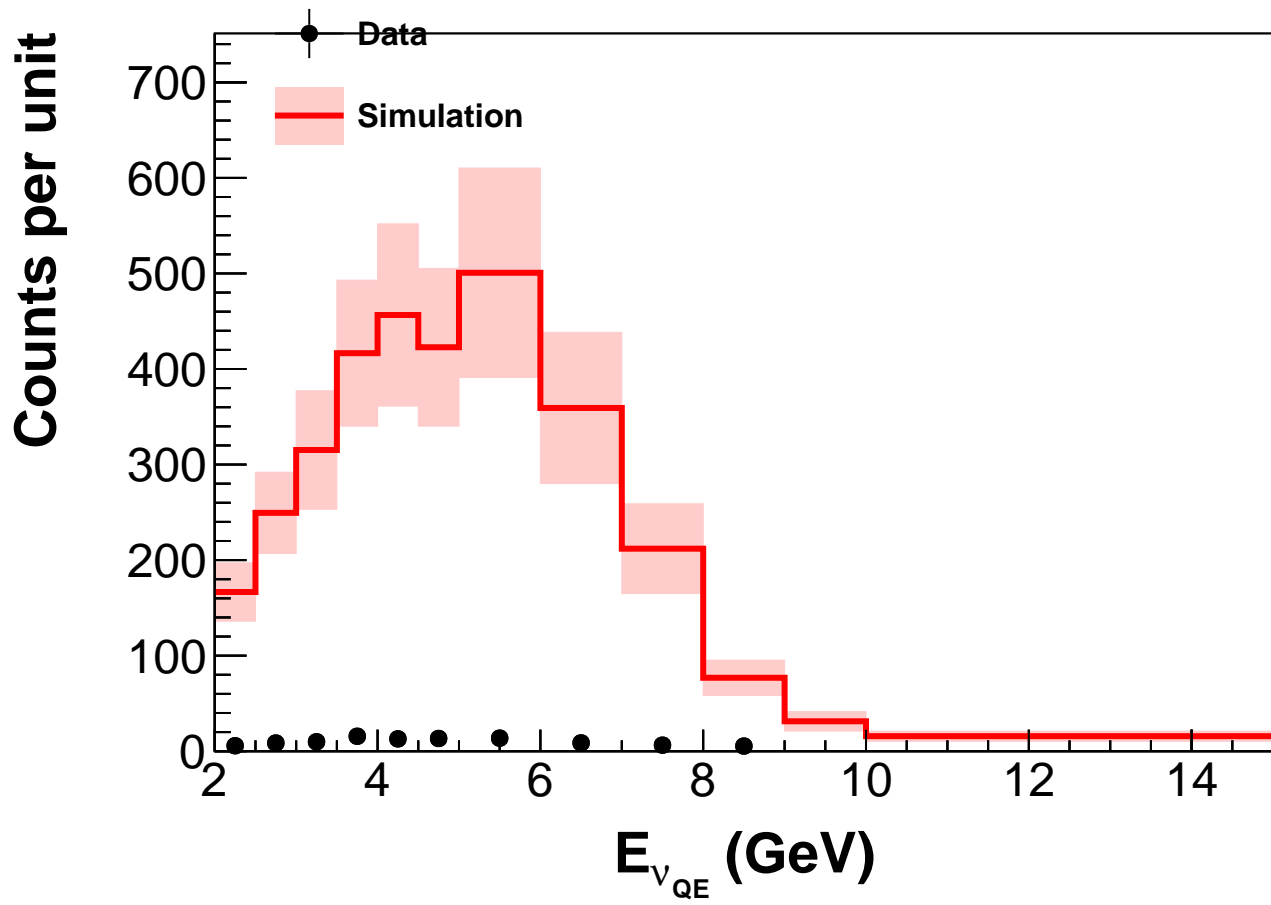
Unsmearred Data Compared to Selected MC



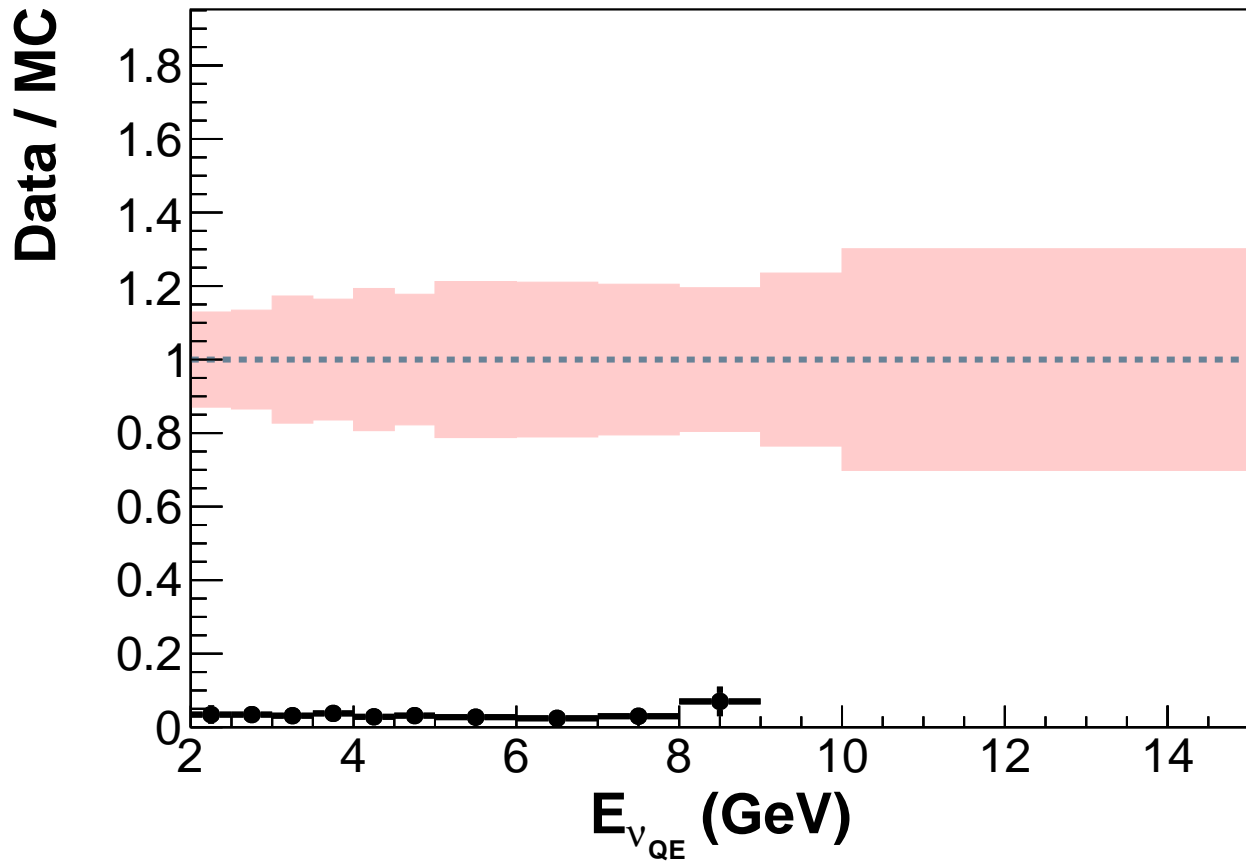
Unsmeared Data Systematics


$$E_{\nu_{QE}} \text{ (GeV)}$$

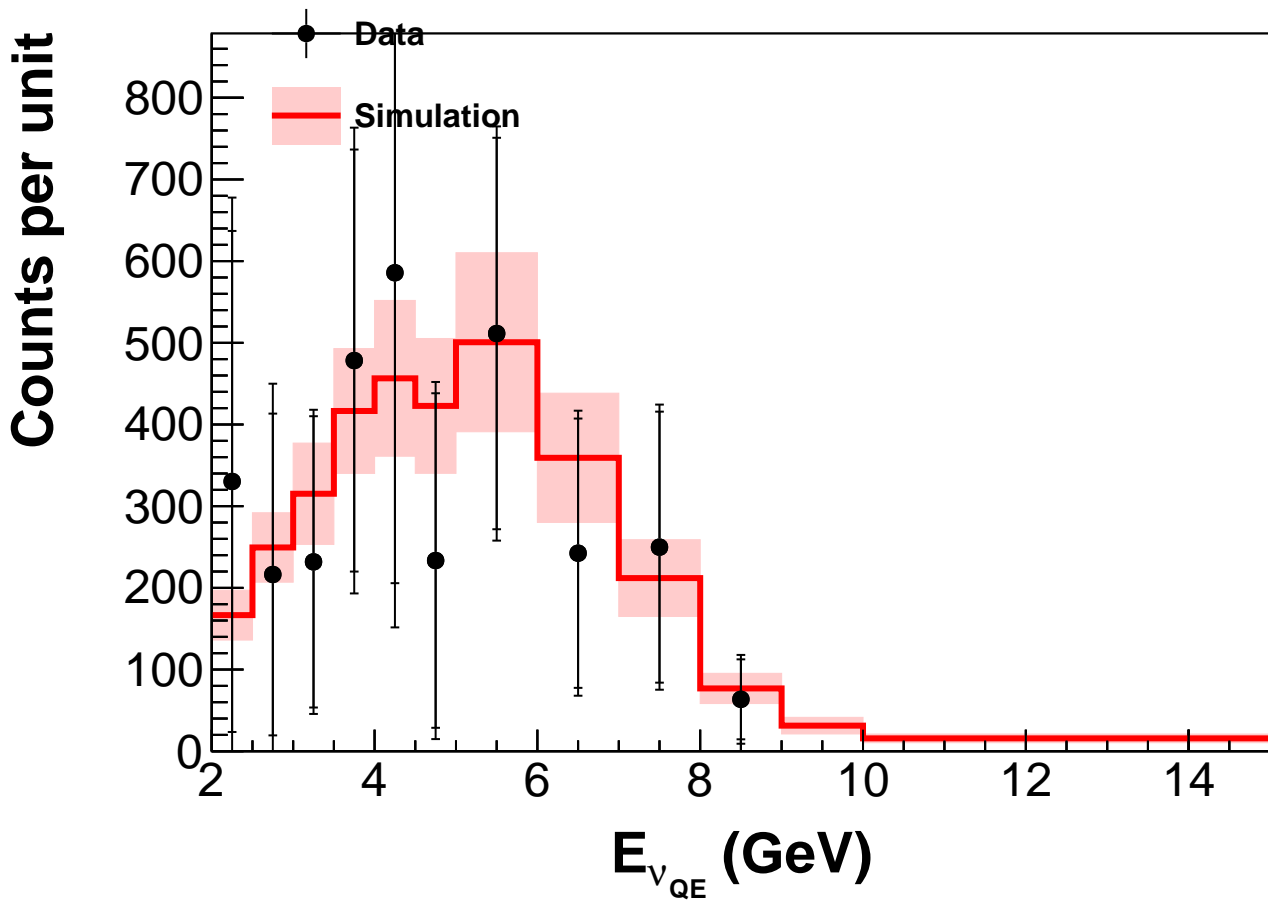
efficiency: selected and true



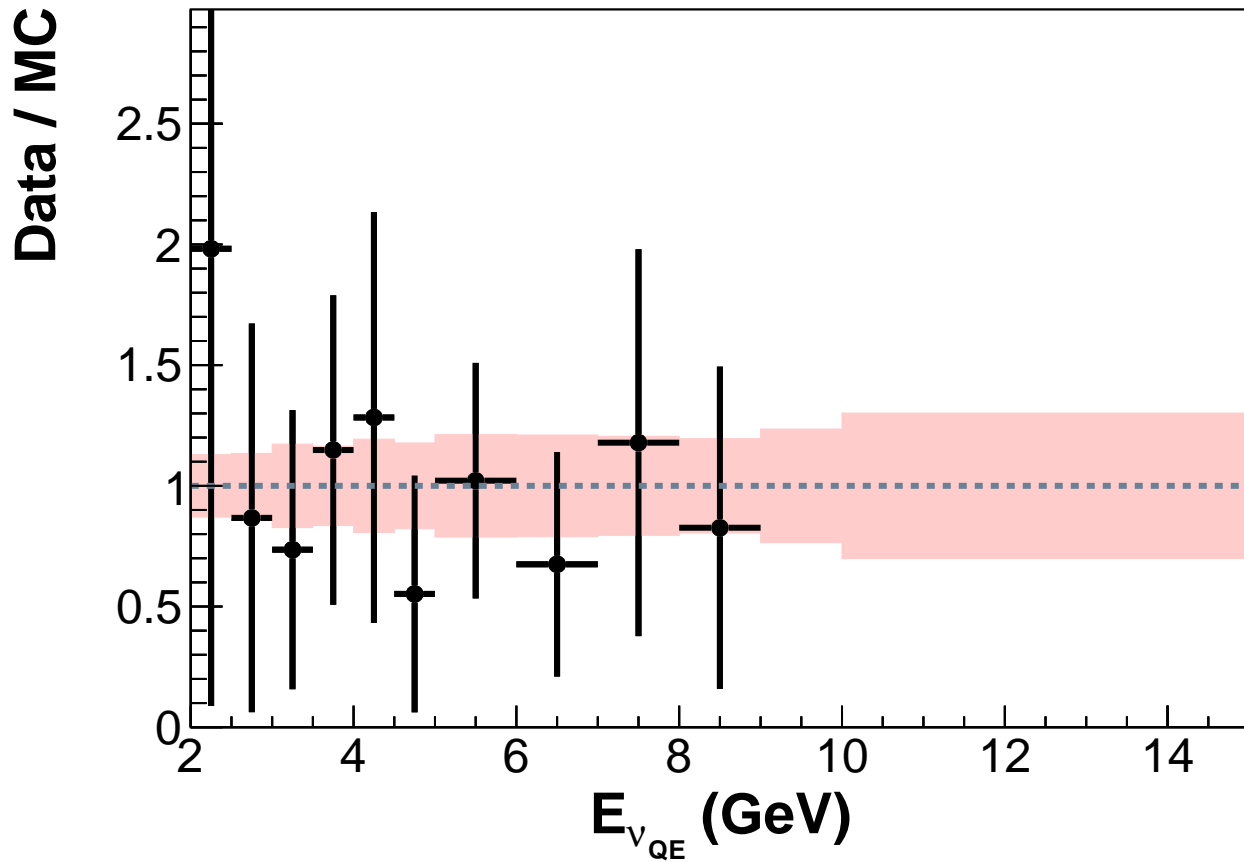
efficiency: selected and true



effcorr data vs truth



effcorr data vs truth



Efficiency Factor Systematics



———— Total Uncertainty

Statistical

Flux

Angle

FSI Model

Geant

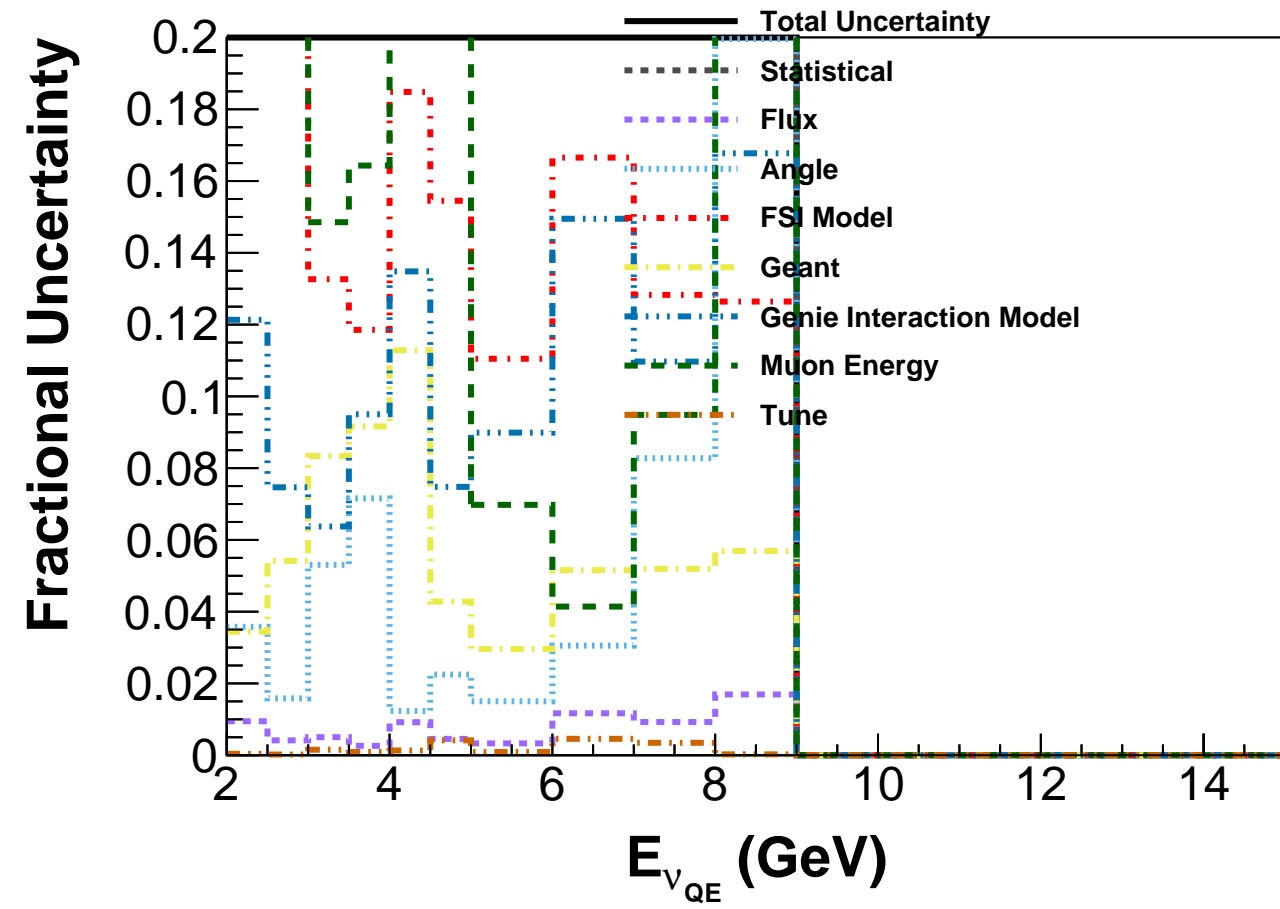
Genie Interaction Model

Muon Energy

1. **Understanding the Problem:**

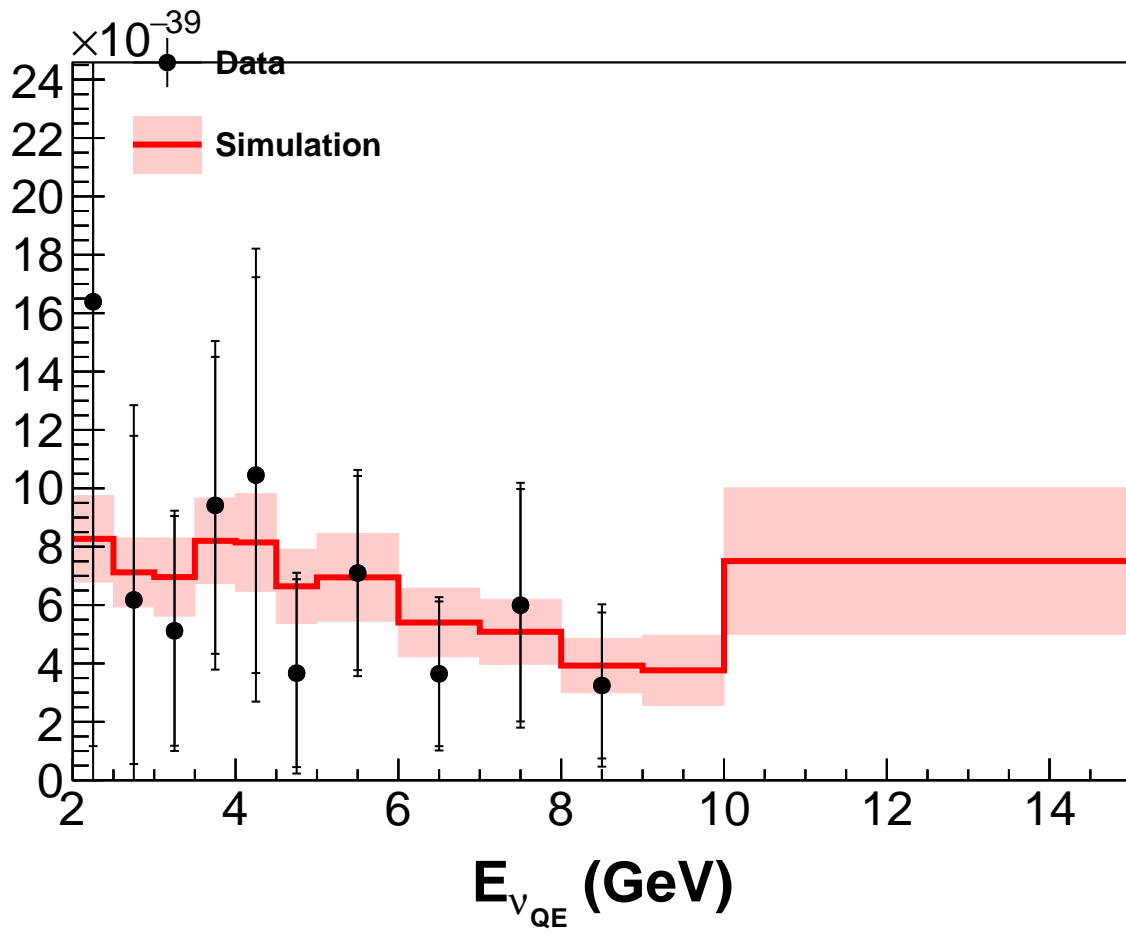
$$E_{\nu_{QE}} \text{ (GeV)}$$

Efficiency Corrected Data Systematics



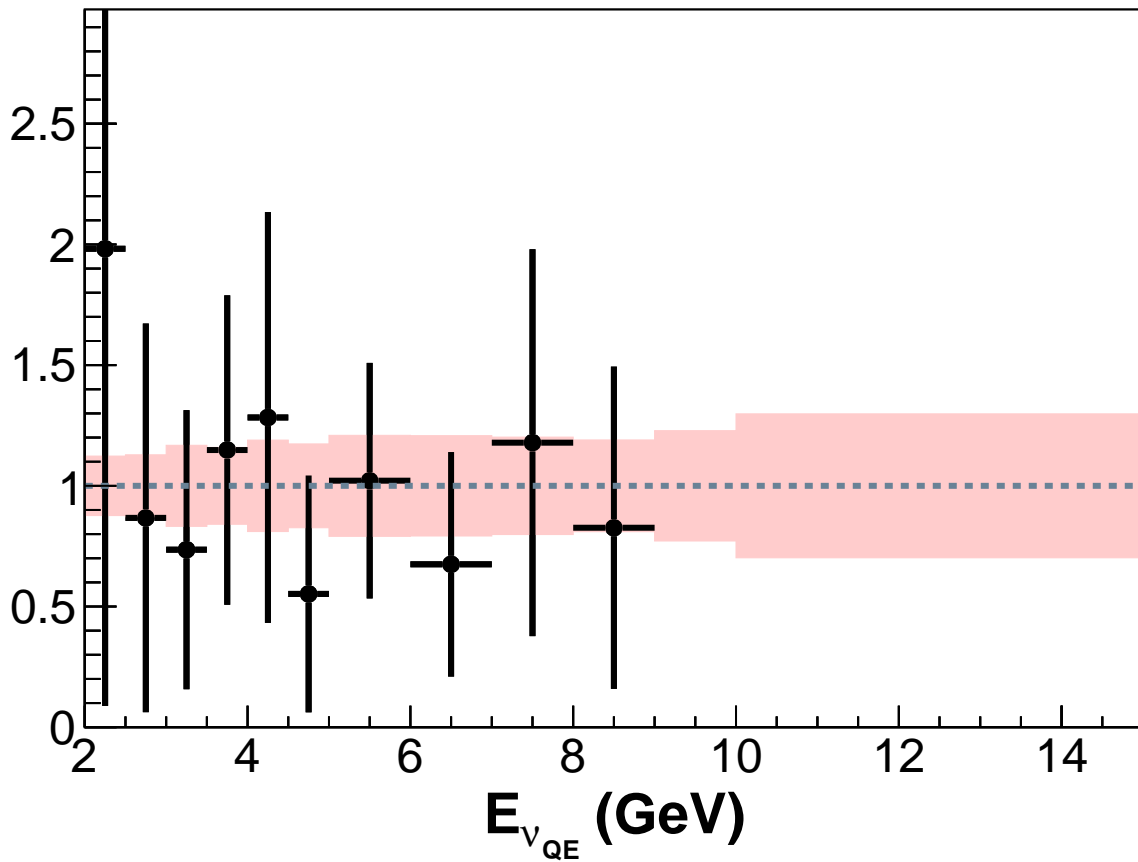
sigma

Counts per unit

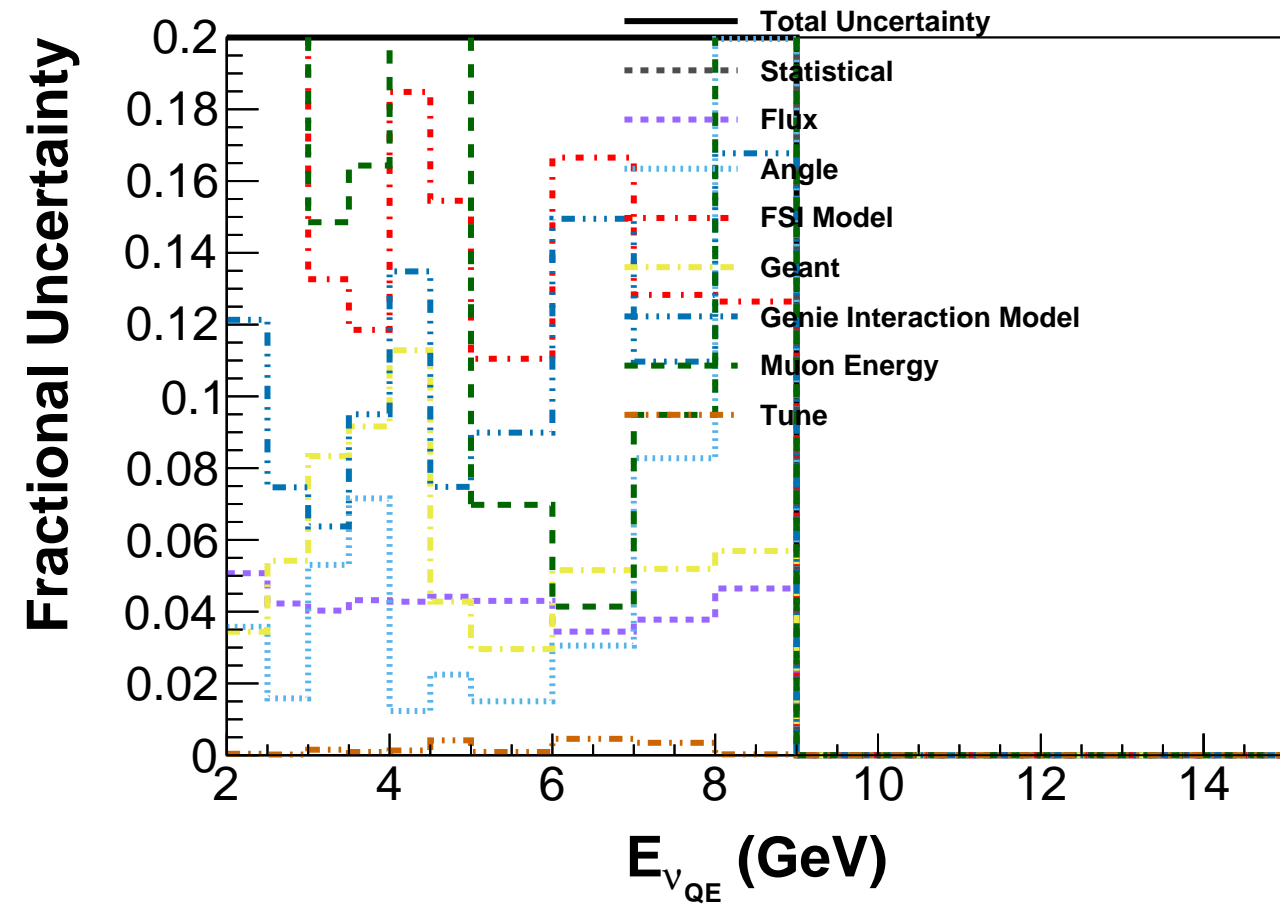


sigma

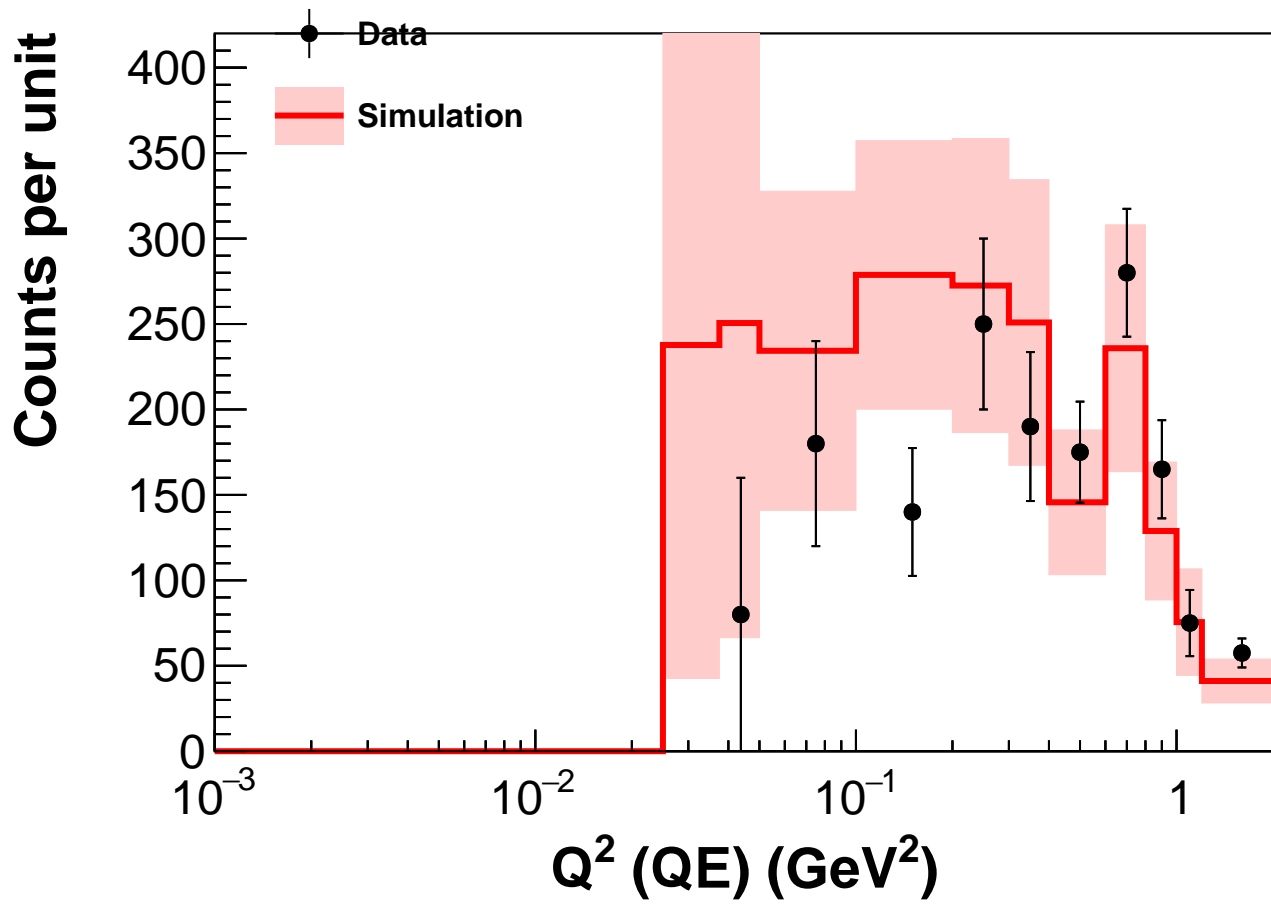
Data / MC



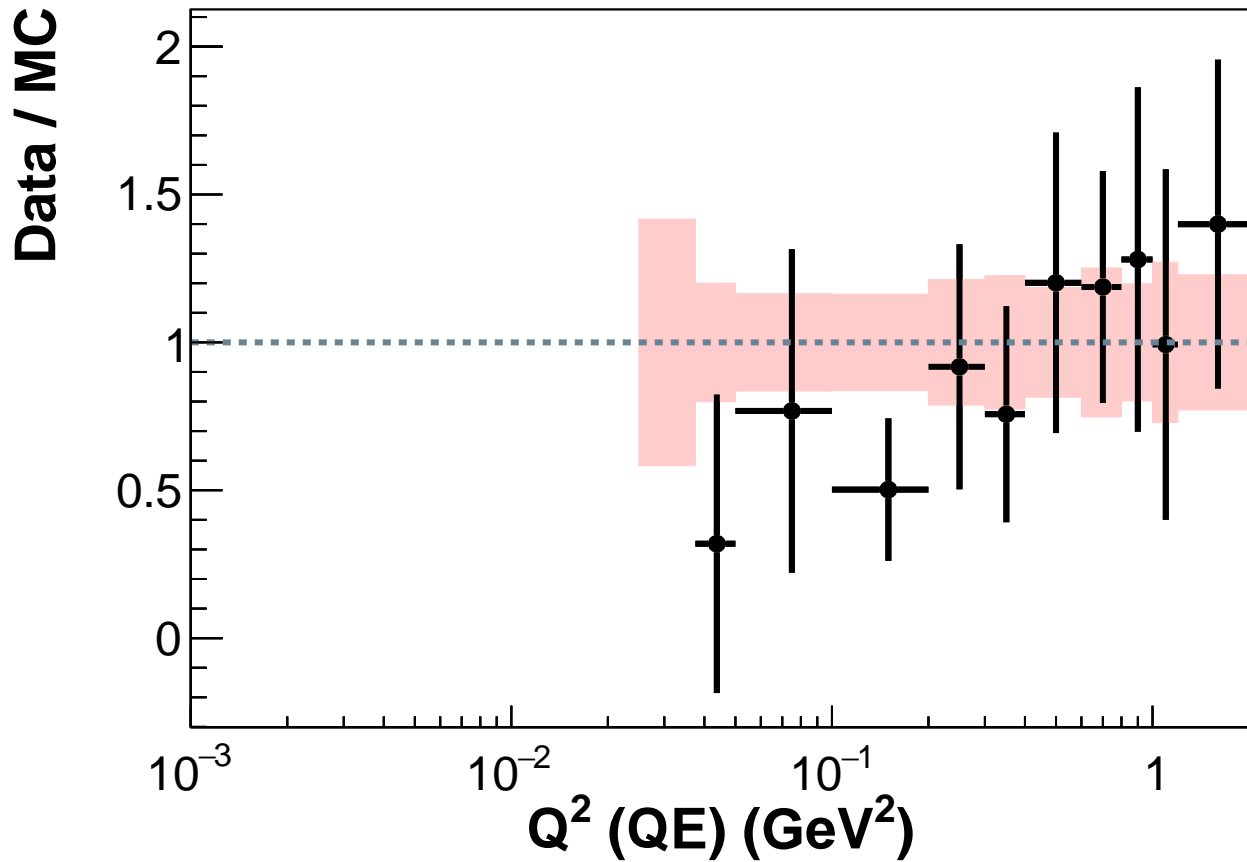
Cross Section Systematics



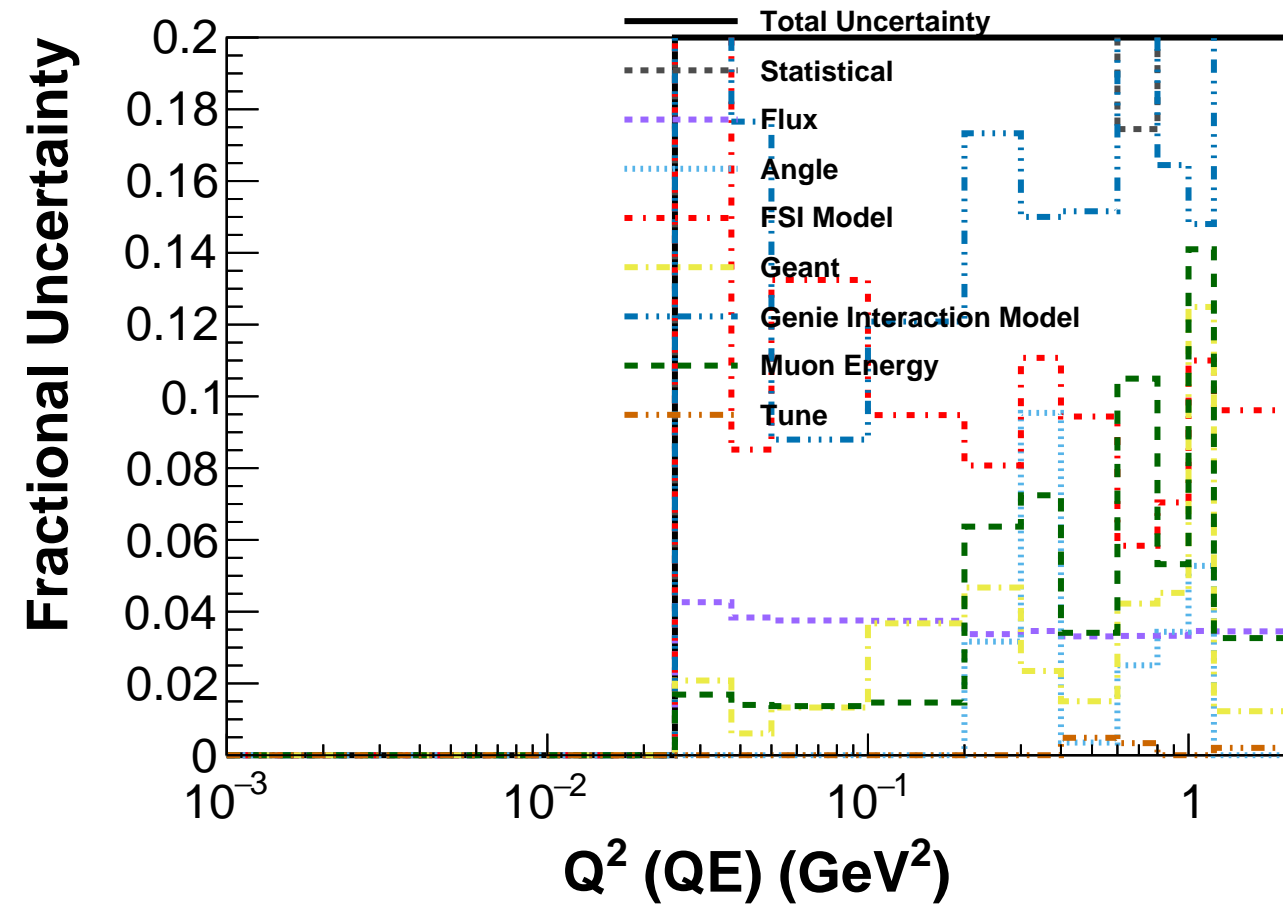
DATA_vs_MC



DATA_vs_MC

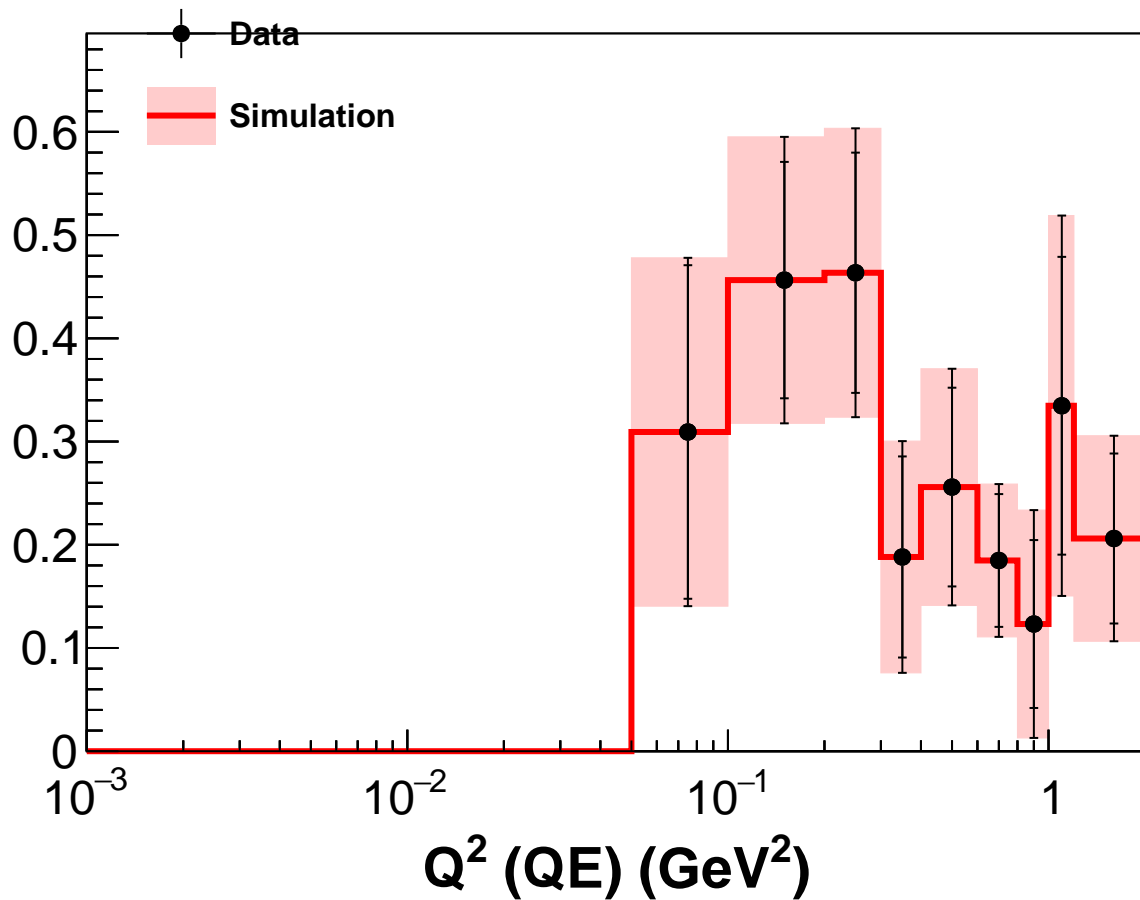


Raw MC Systematics



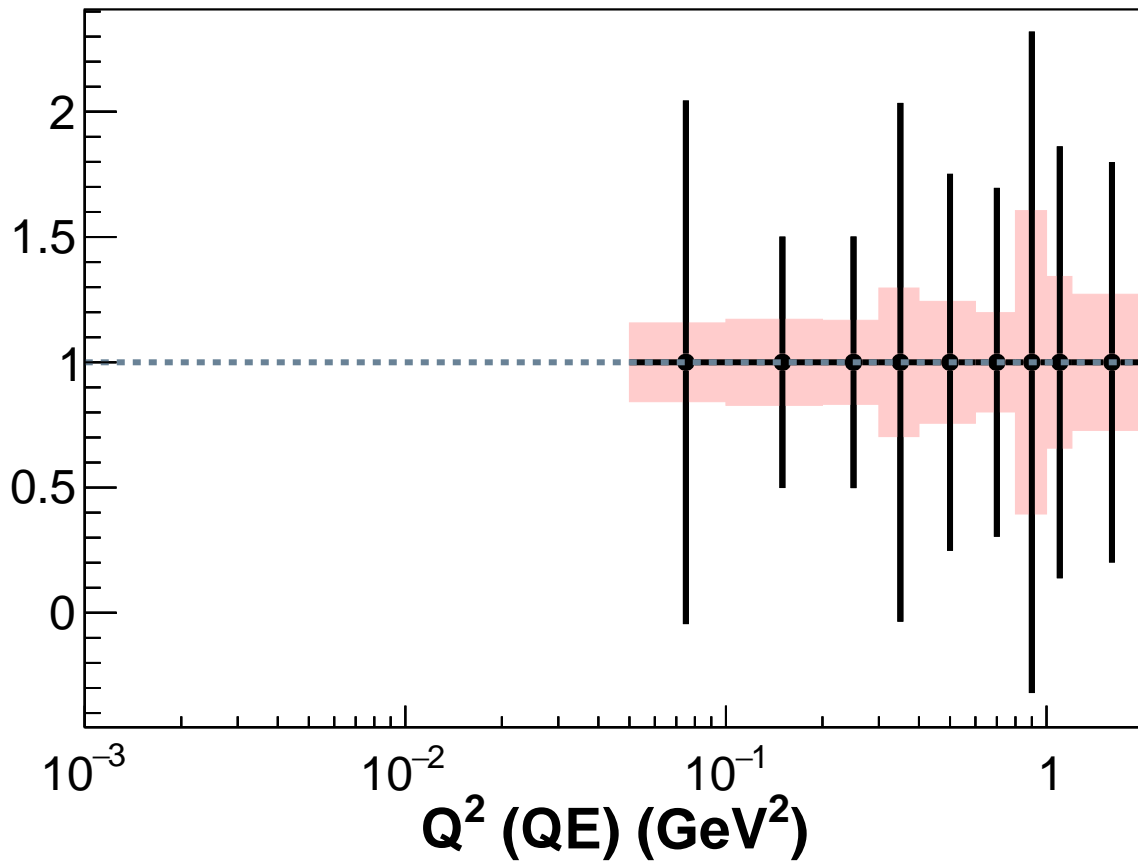
Signal Fraction

Counts per unit

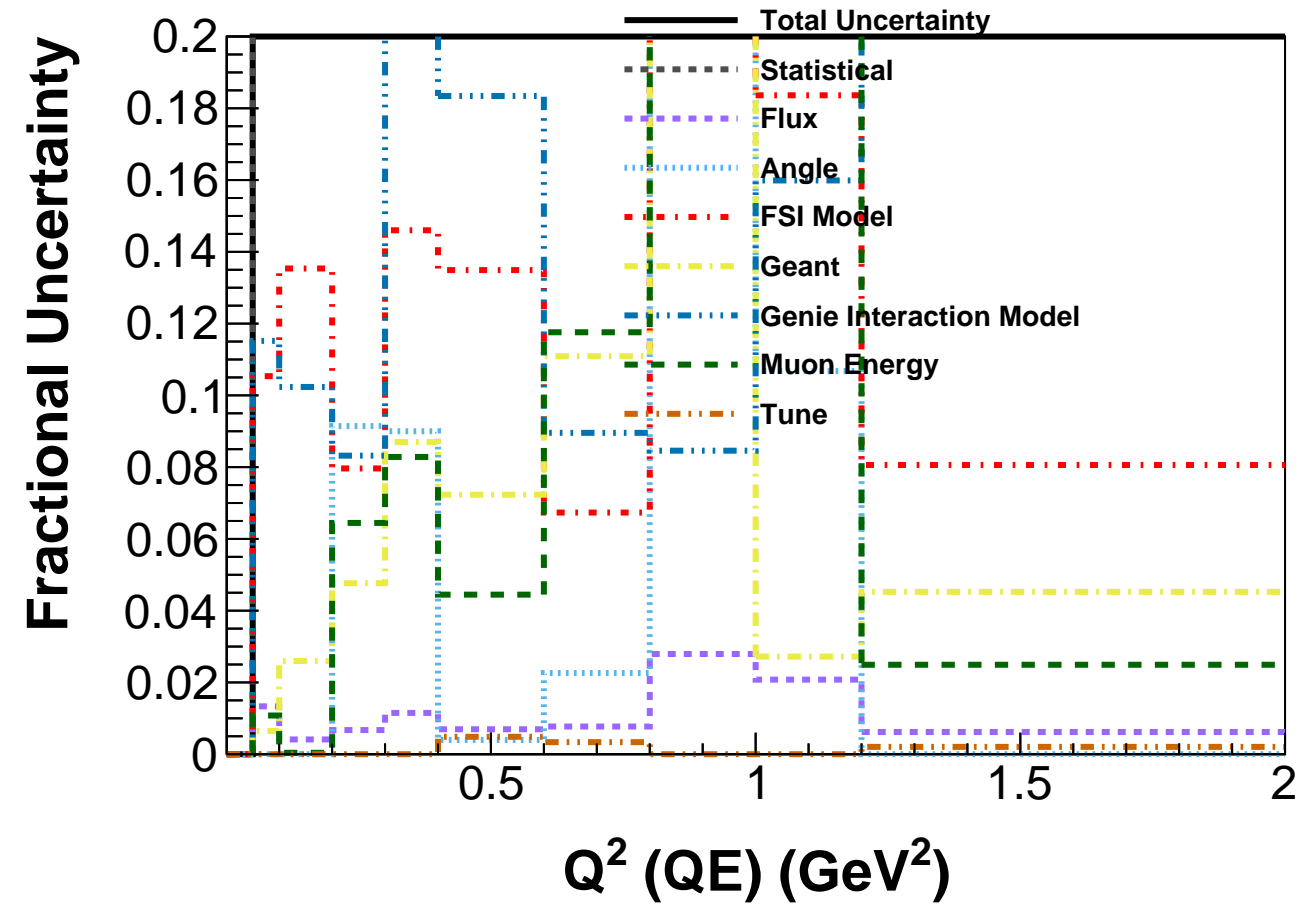


Signal Fraction

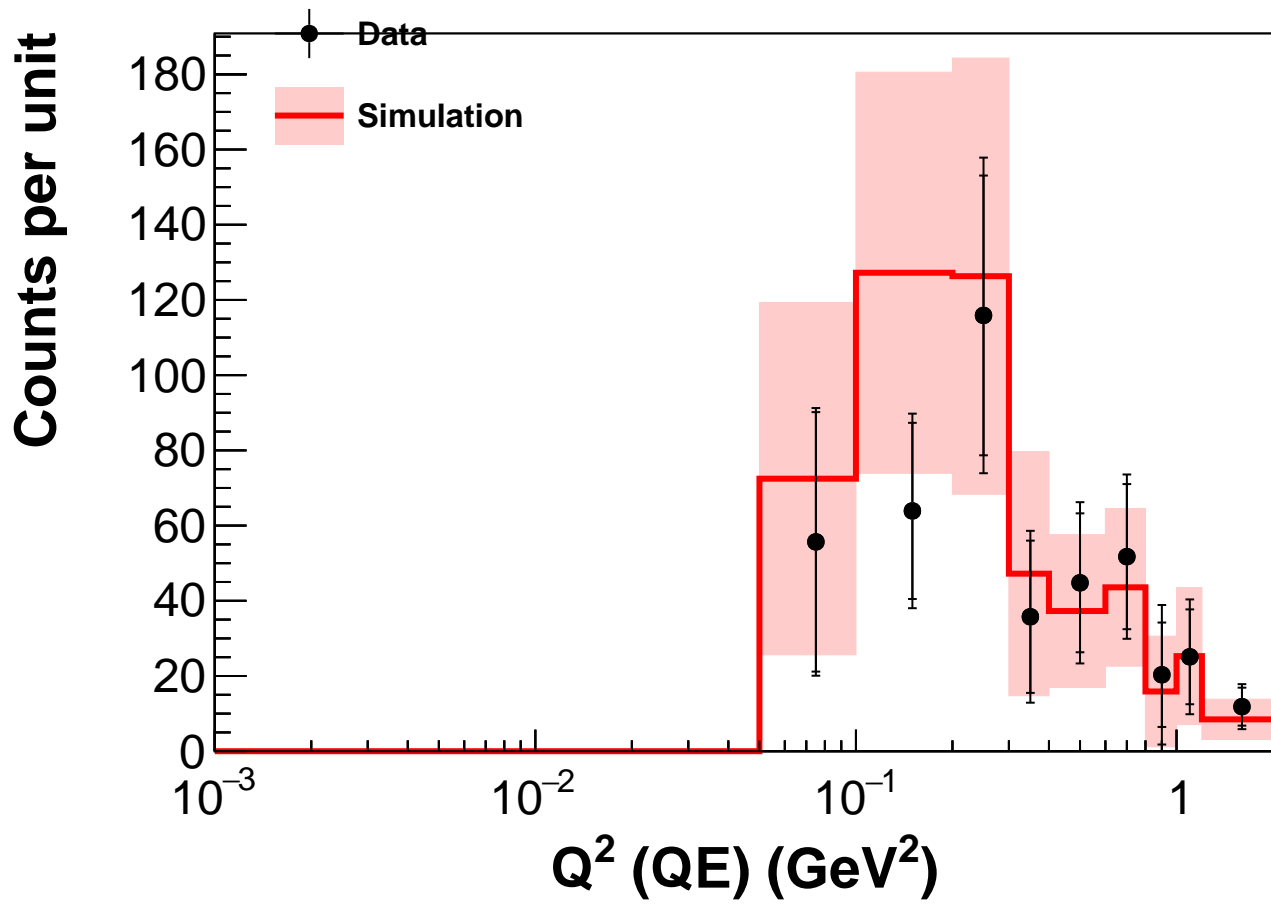
Data / MC



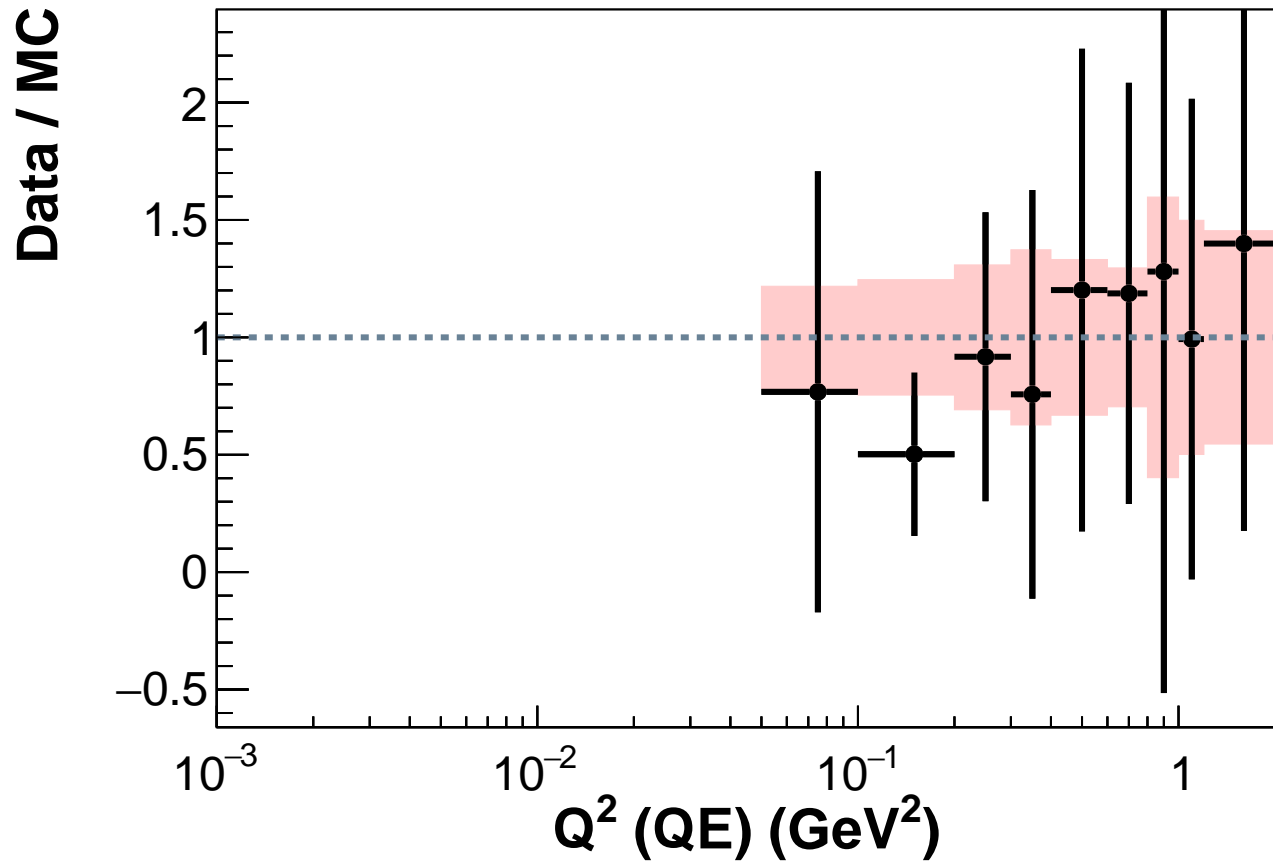
Signal Fraction Systematics



BKGsub vs. MC signal



BKGsub vs. MC signal

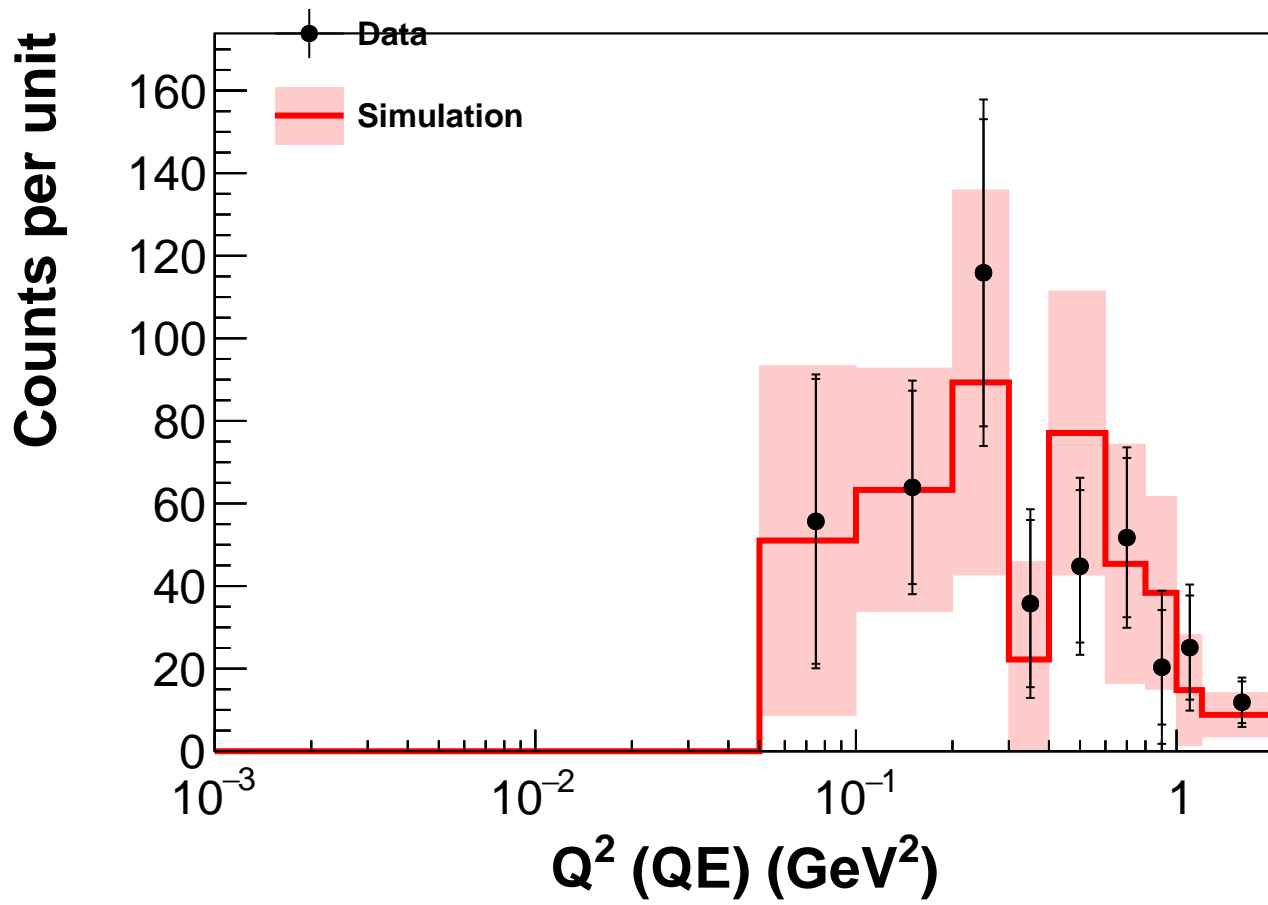


BKGsub Systematics

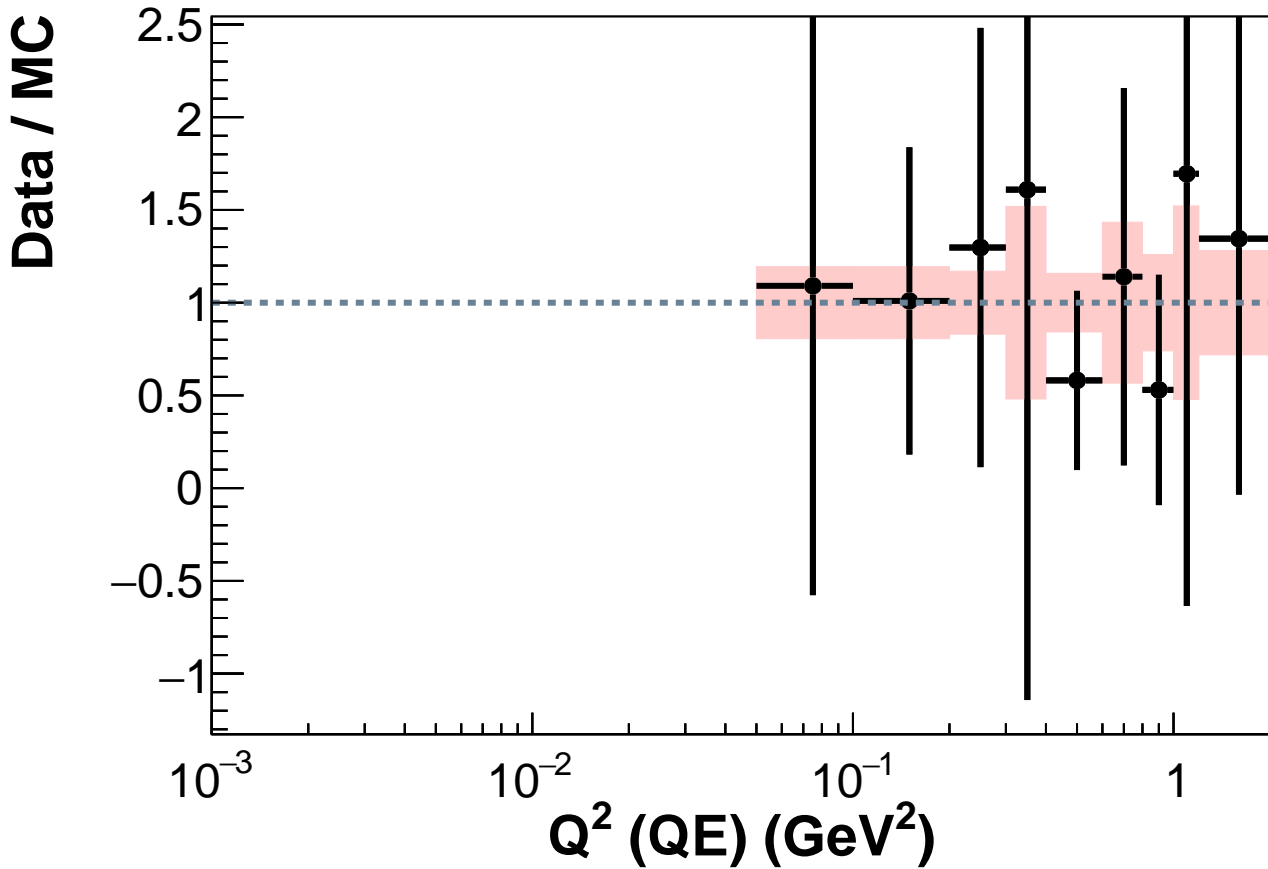


Q^2 (QE) (GeV²)

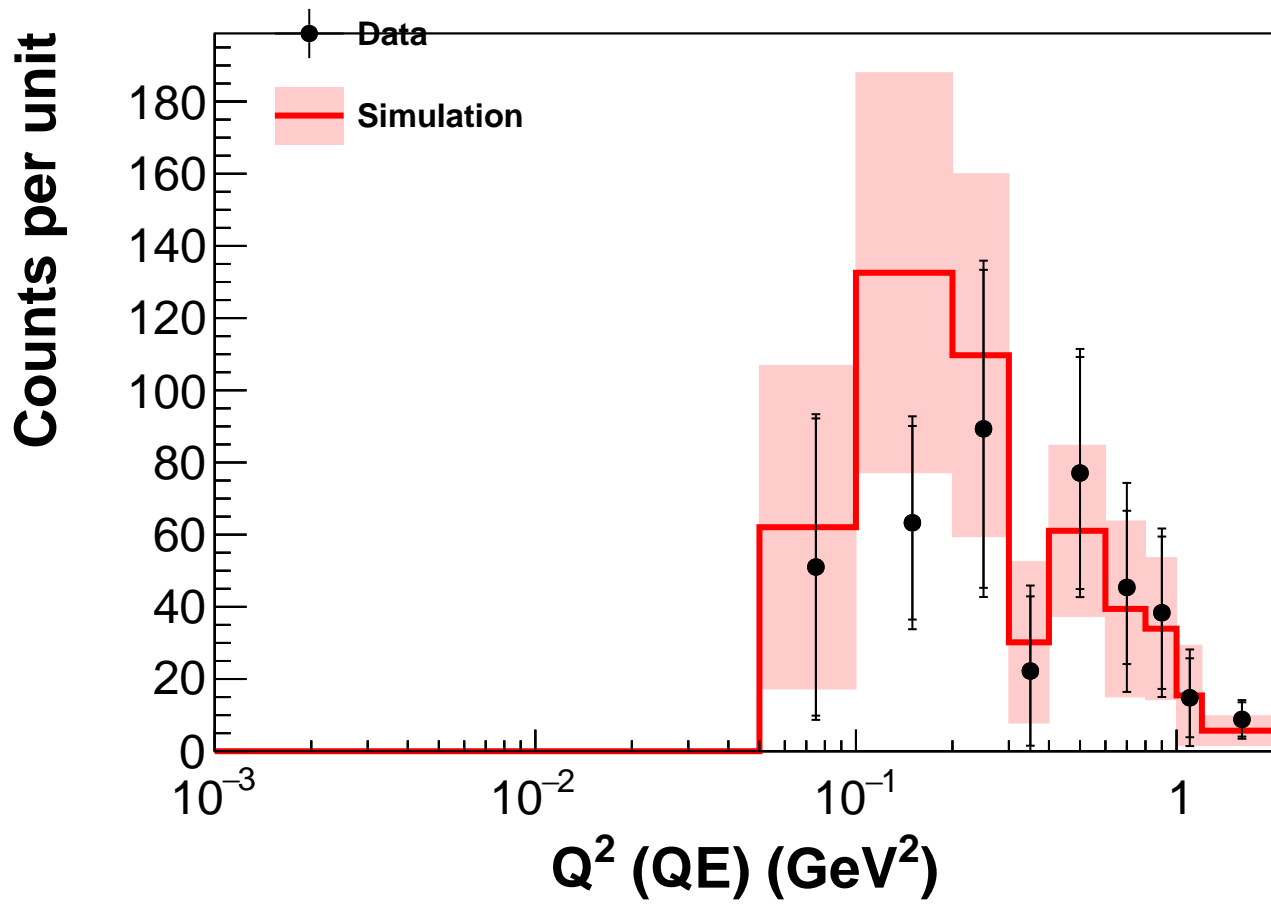
Data Before and After Unsmearing



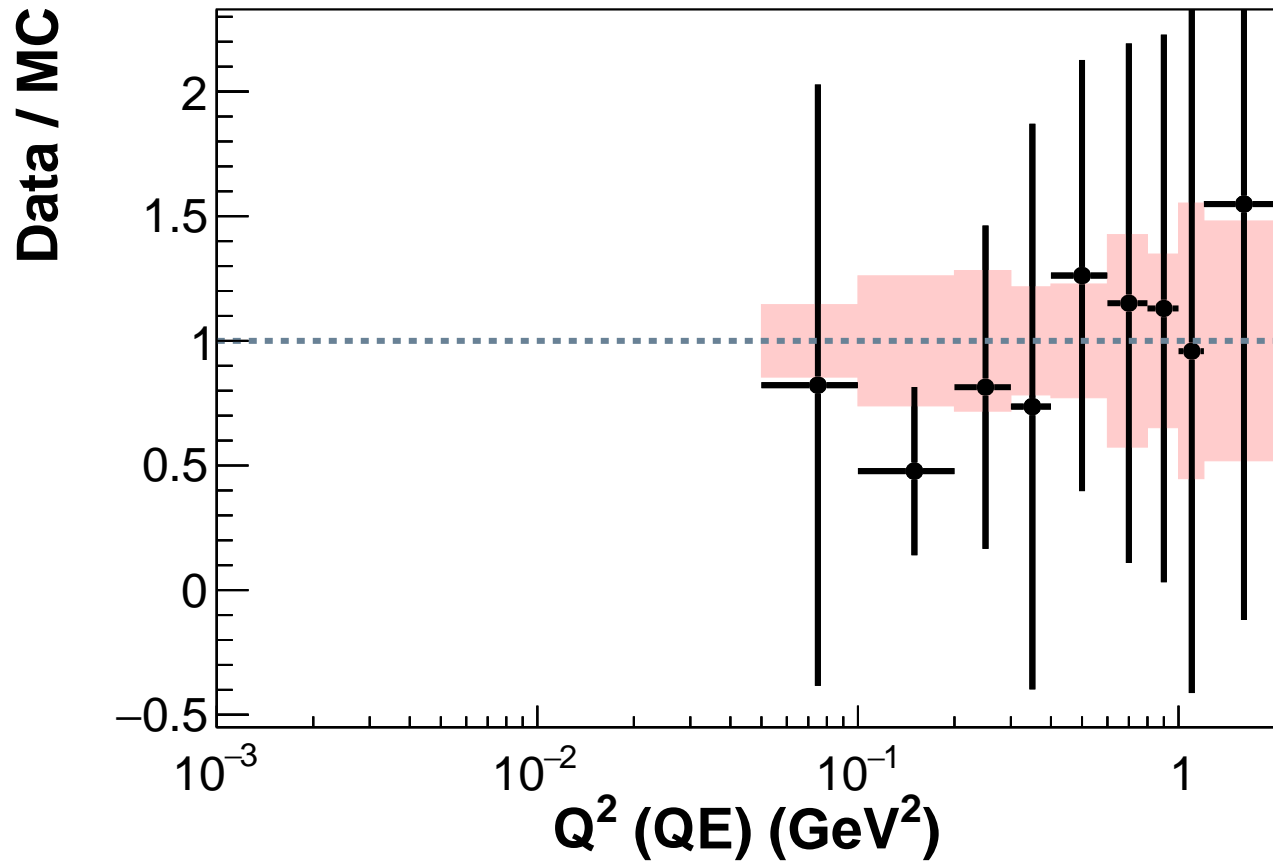
Data Before and After Unsmearing



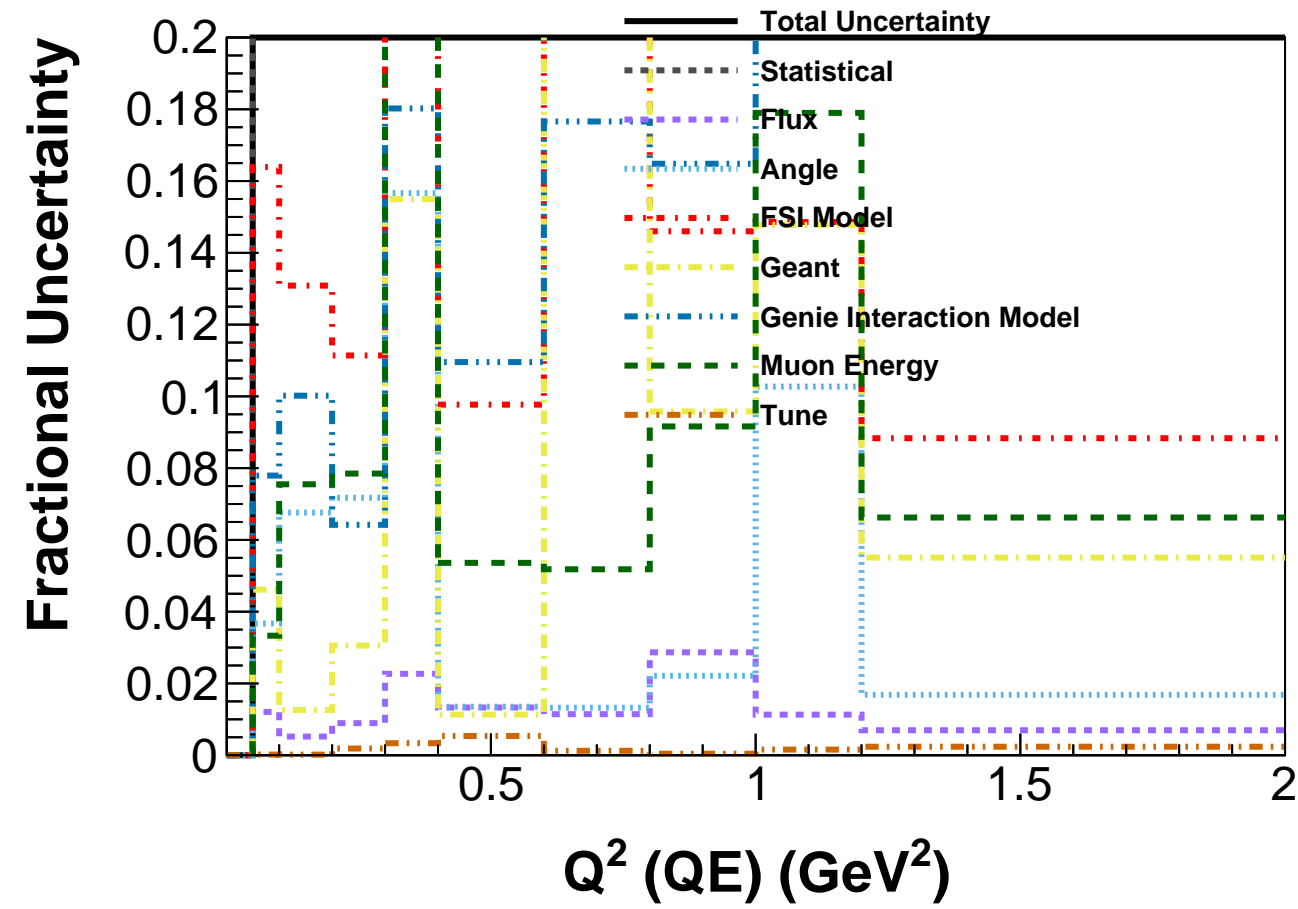
Unsmeared Data Compared to Selected MC



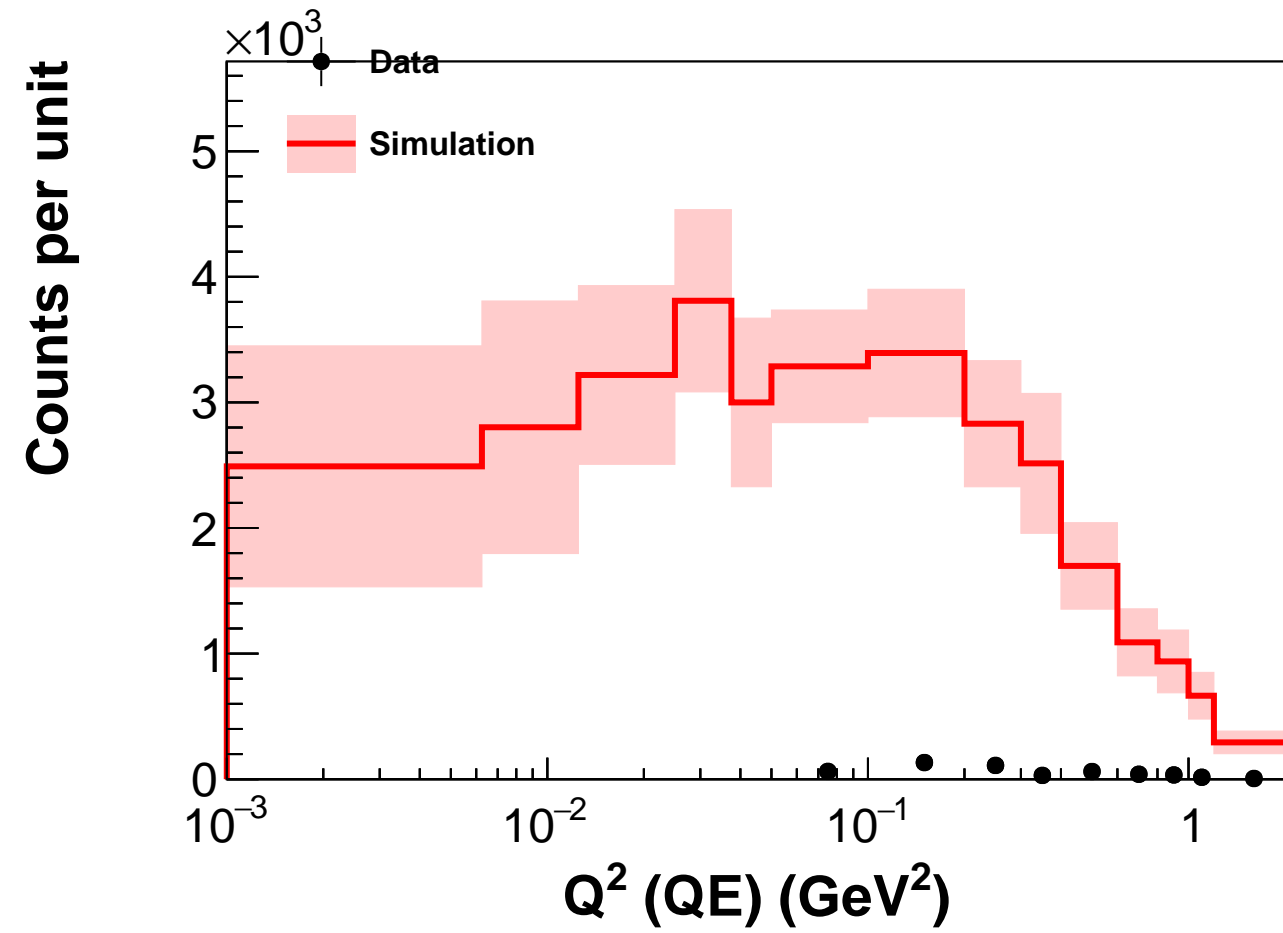
Unsmeared Data Compared to Selected MC



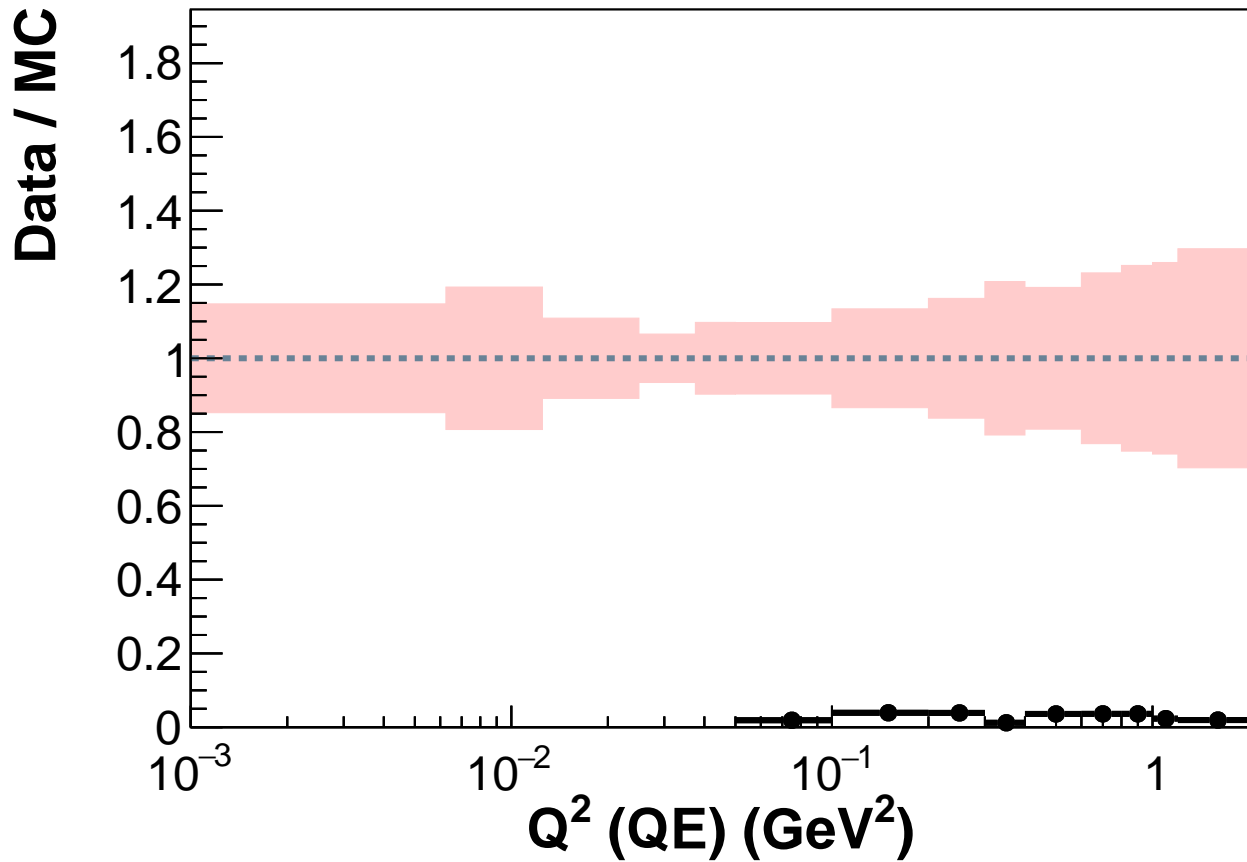
Unsmeared Data Systematics



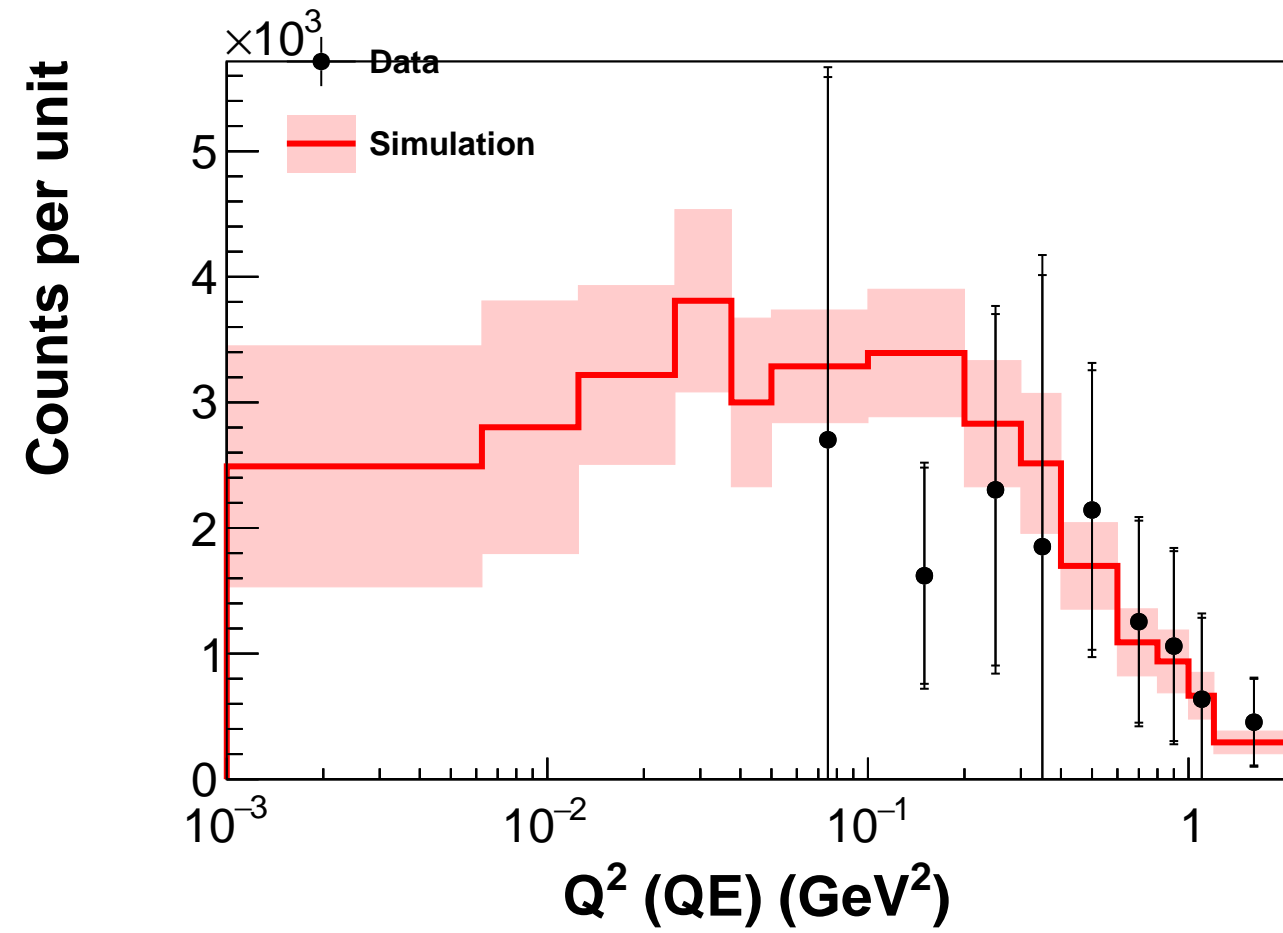
efficiency: selected and true



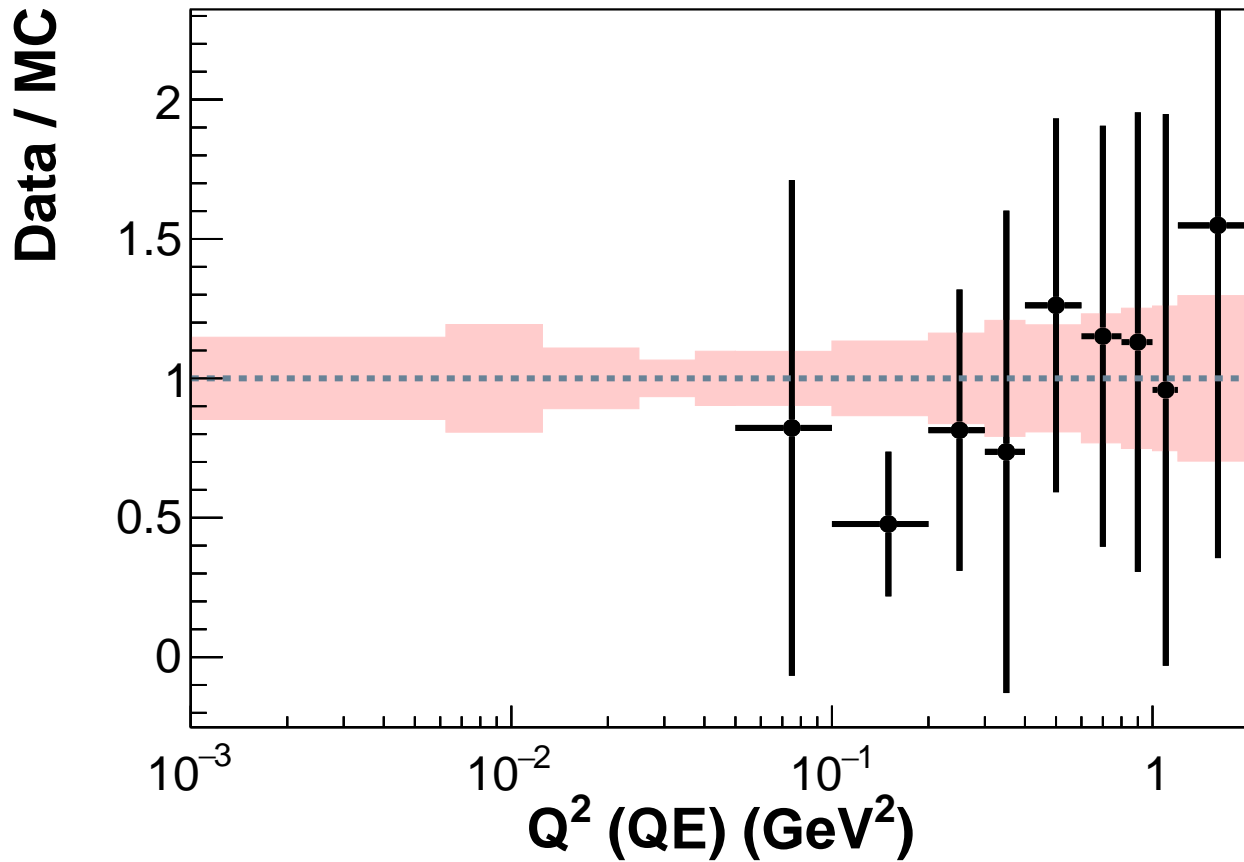
efficiency: selected and true



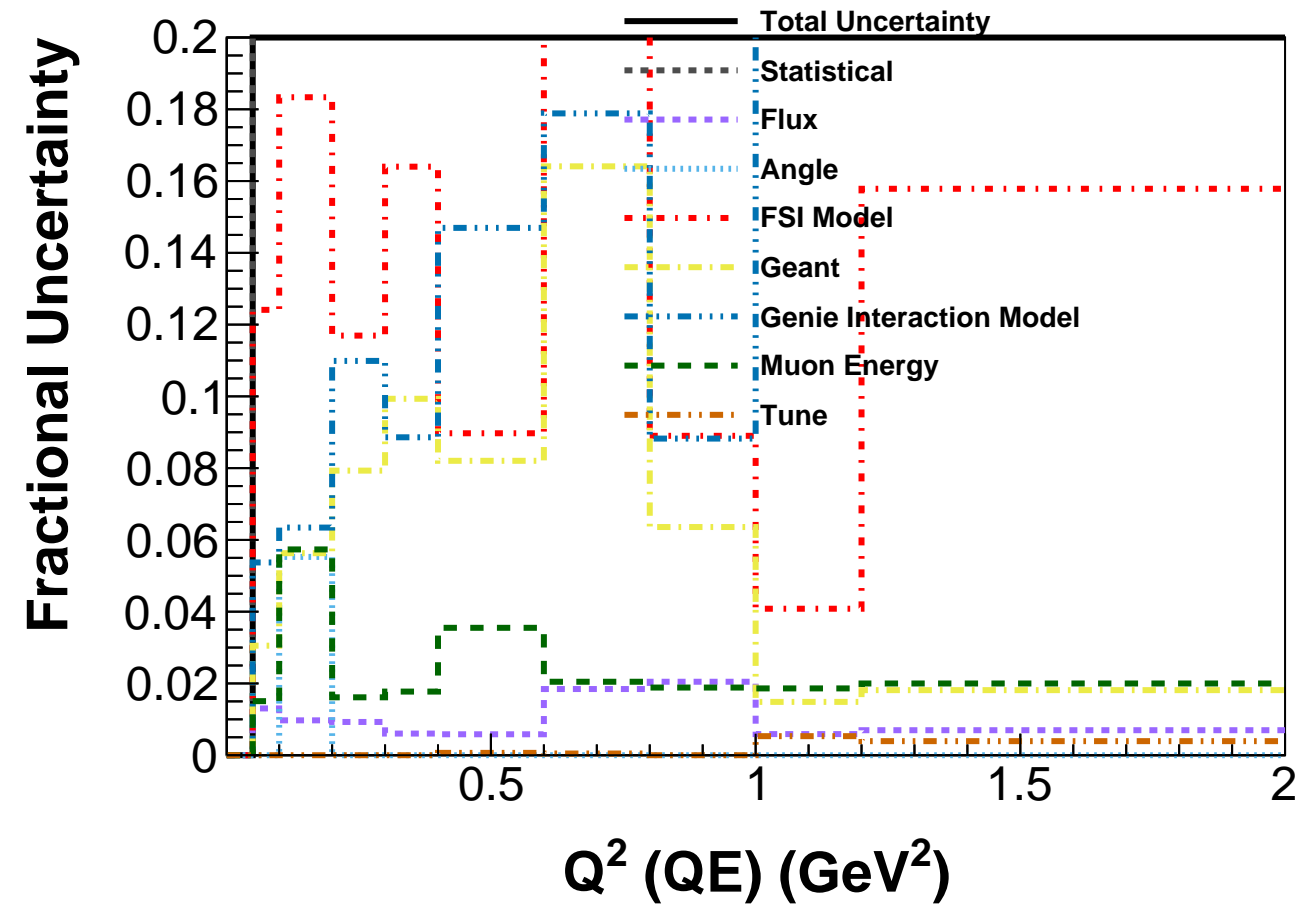
effcorr data vs truth



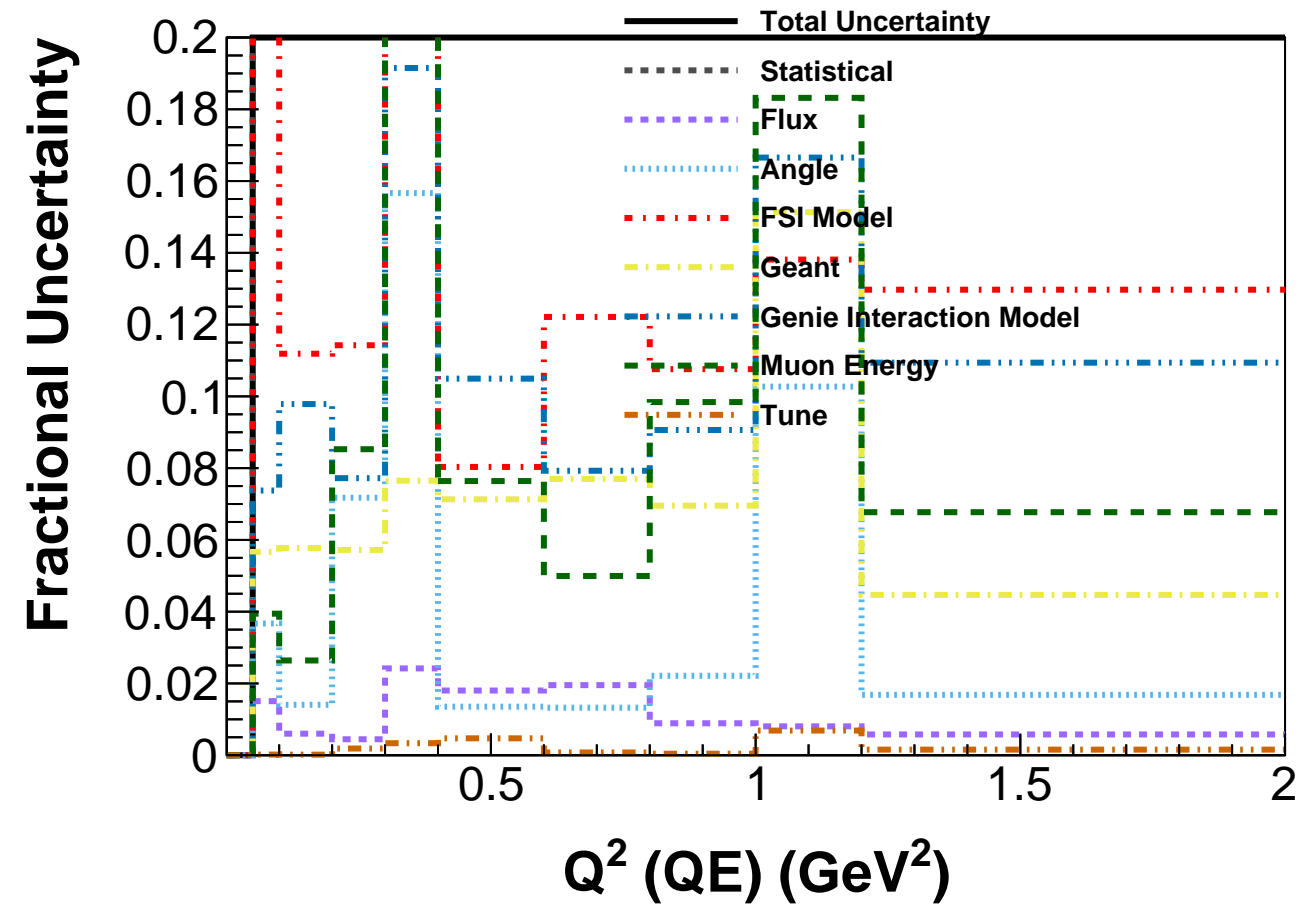
effcorr data vs truth



Efficiency Factor Systematics

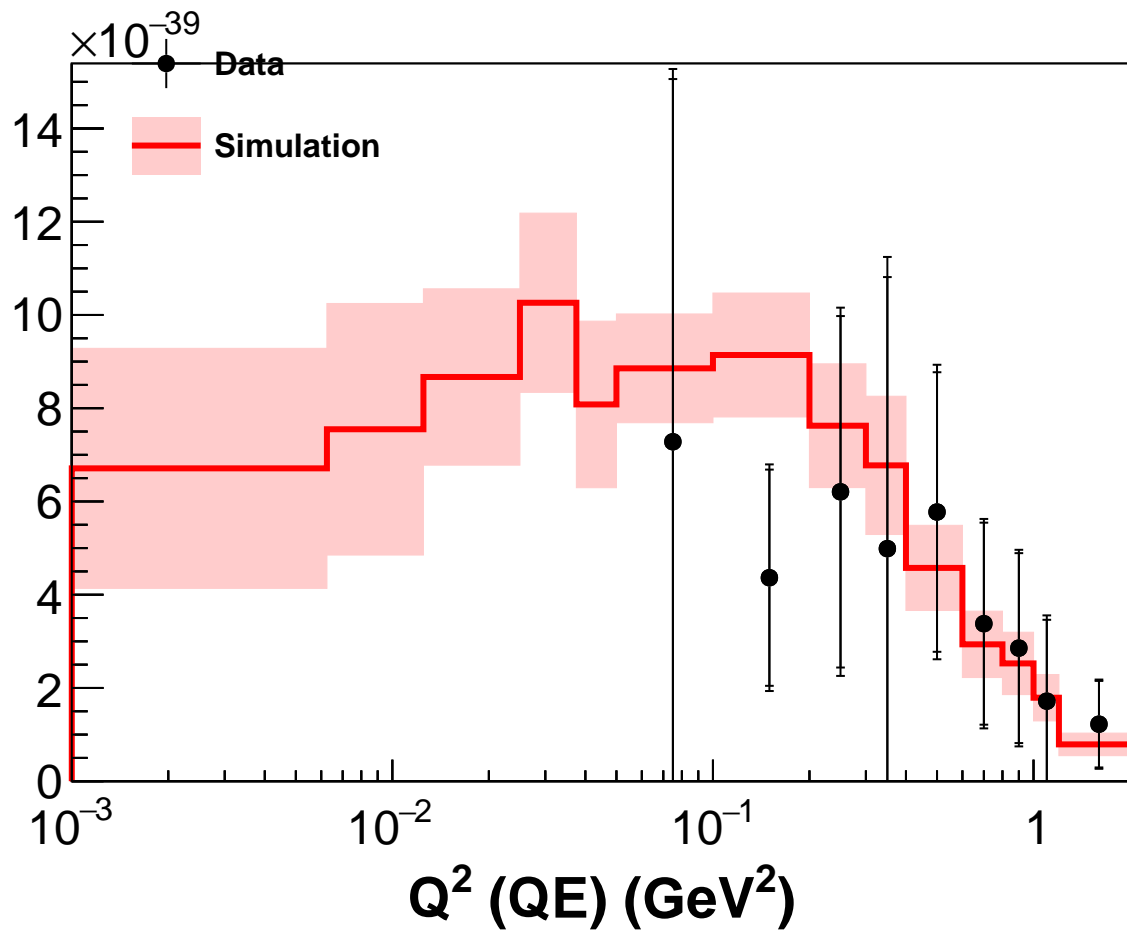


Efficiency Corrected Data Systematics



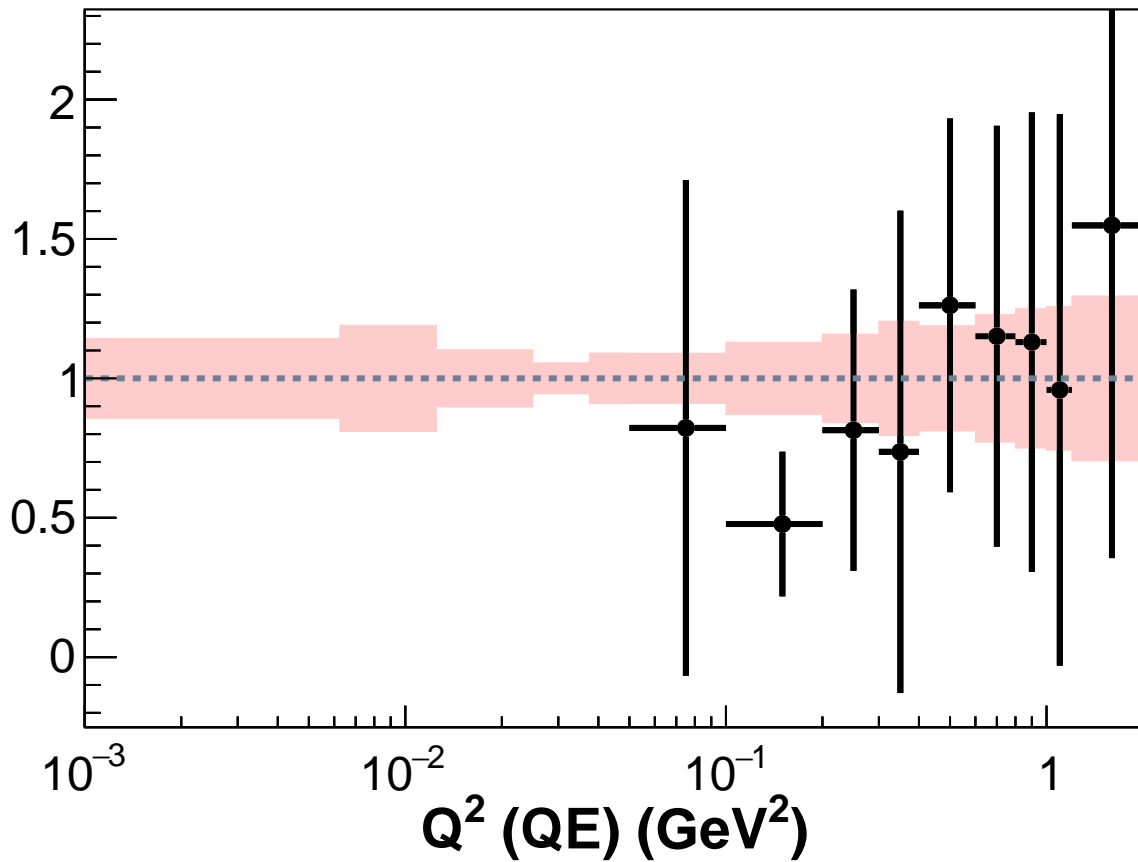
Counts per unit

σ

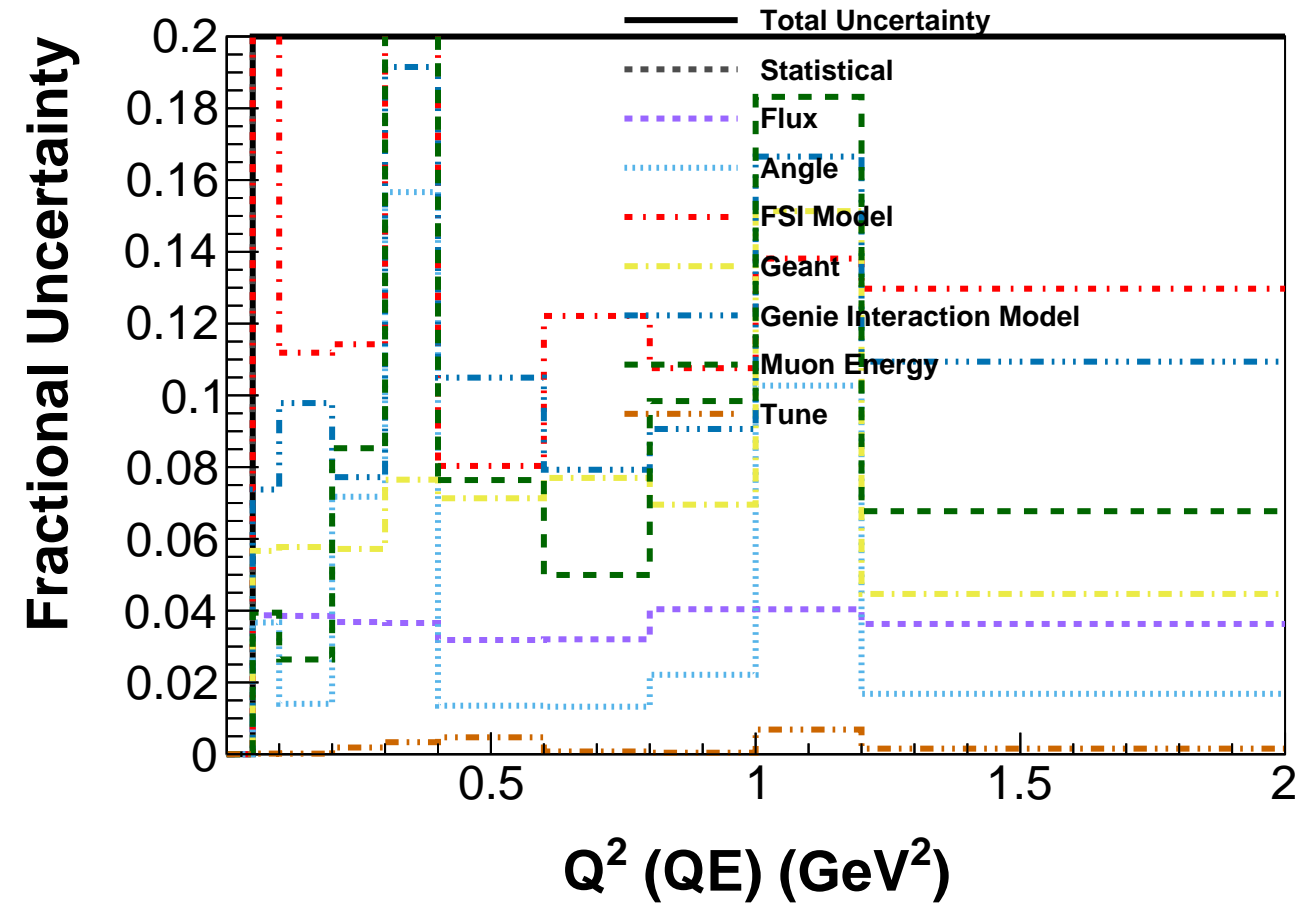


sigma

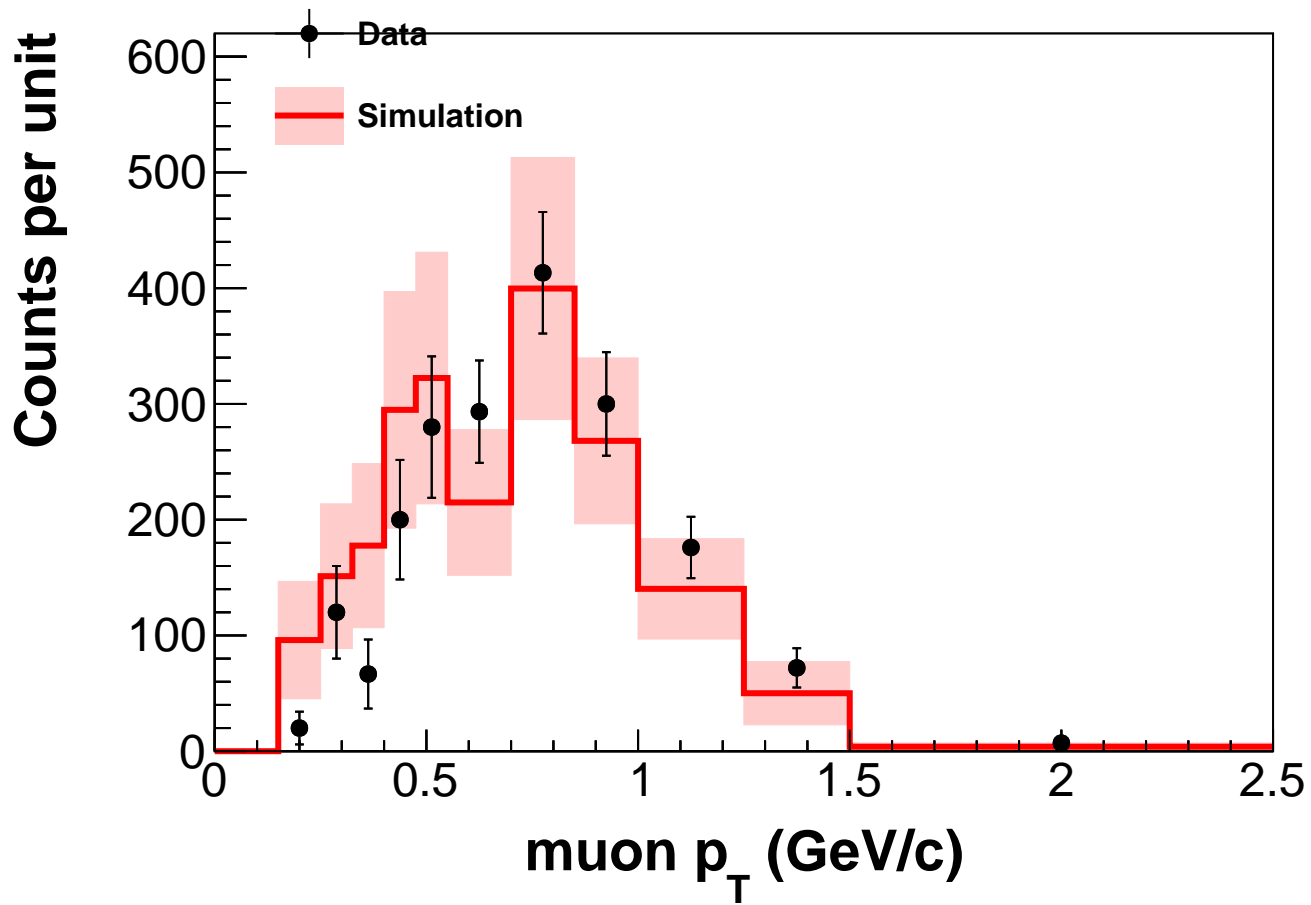
Data / MC



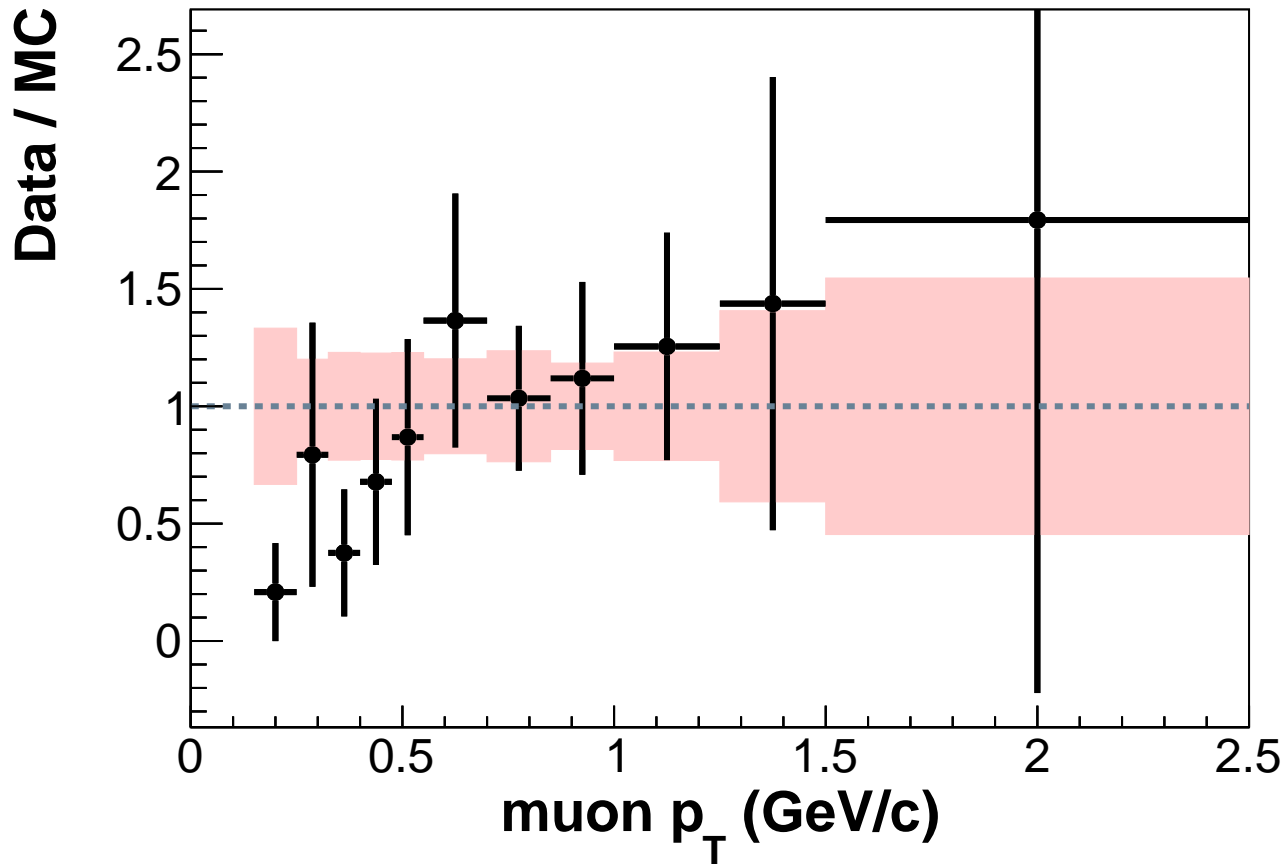
Cross Section Systematics



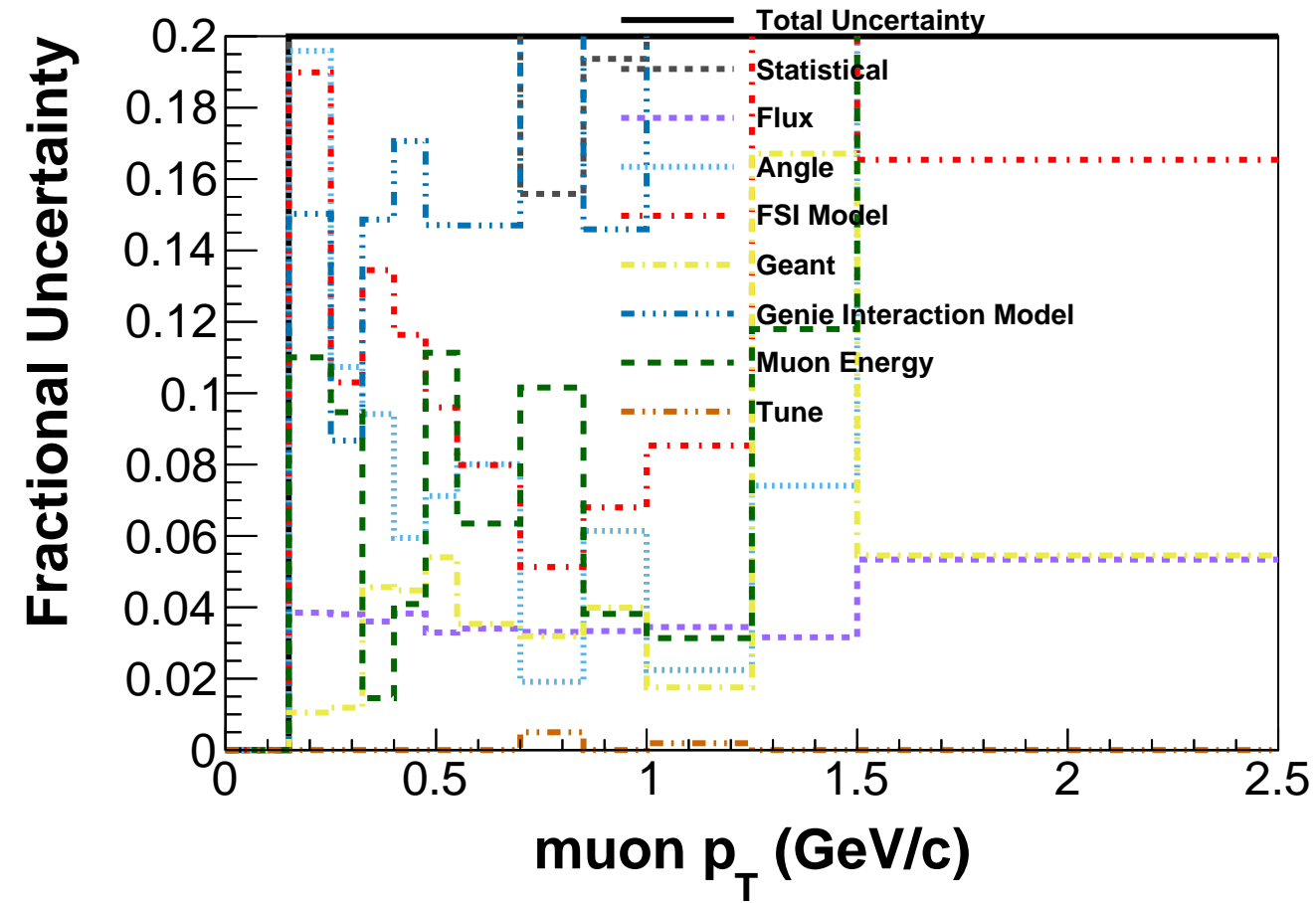
DATA_vs_MC



DATA_vs_MC

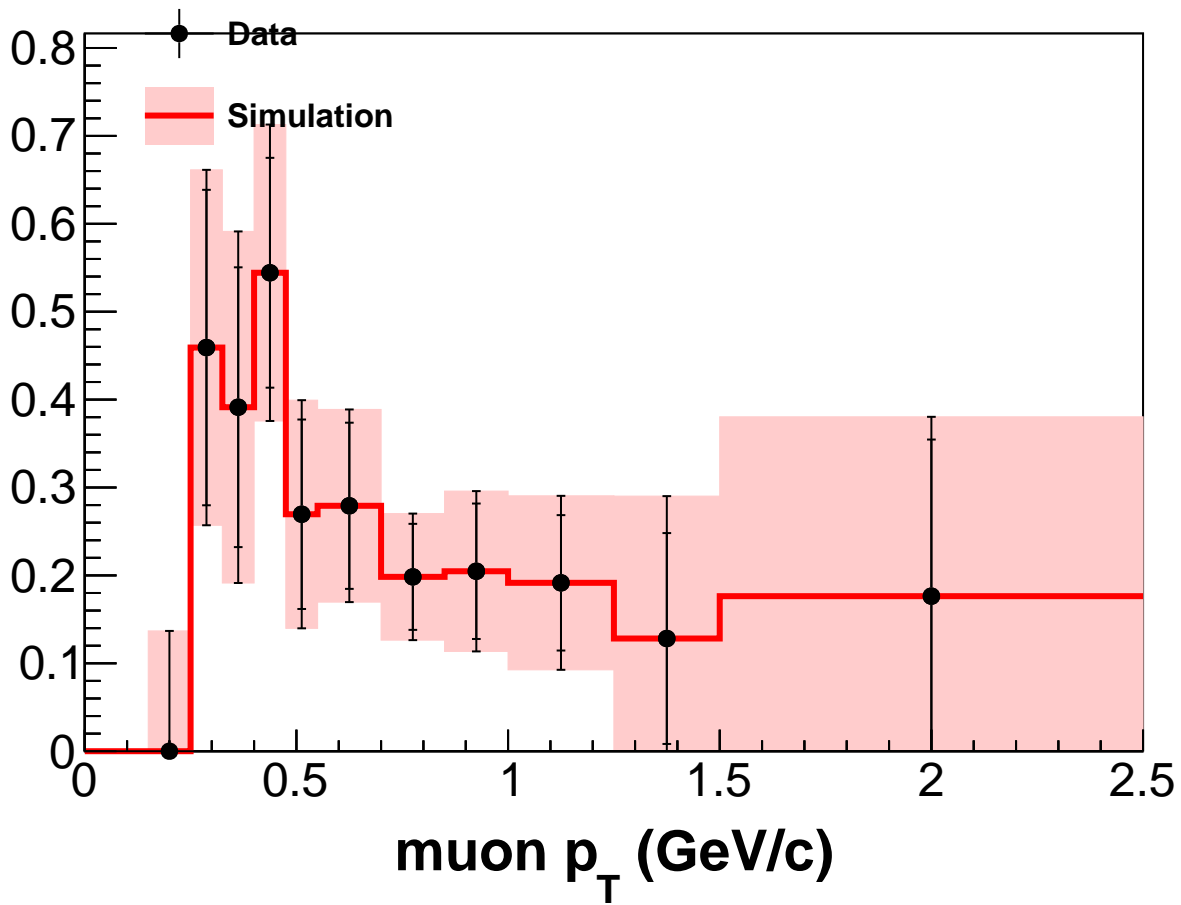


Raw MC Systematics



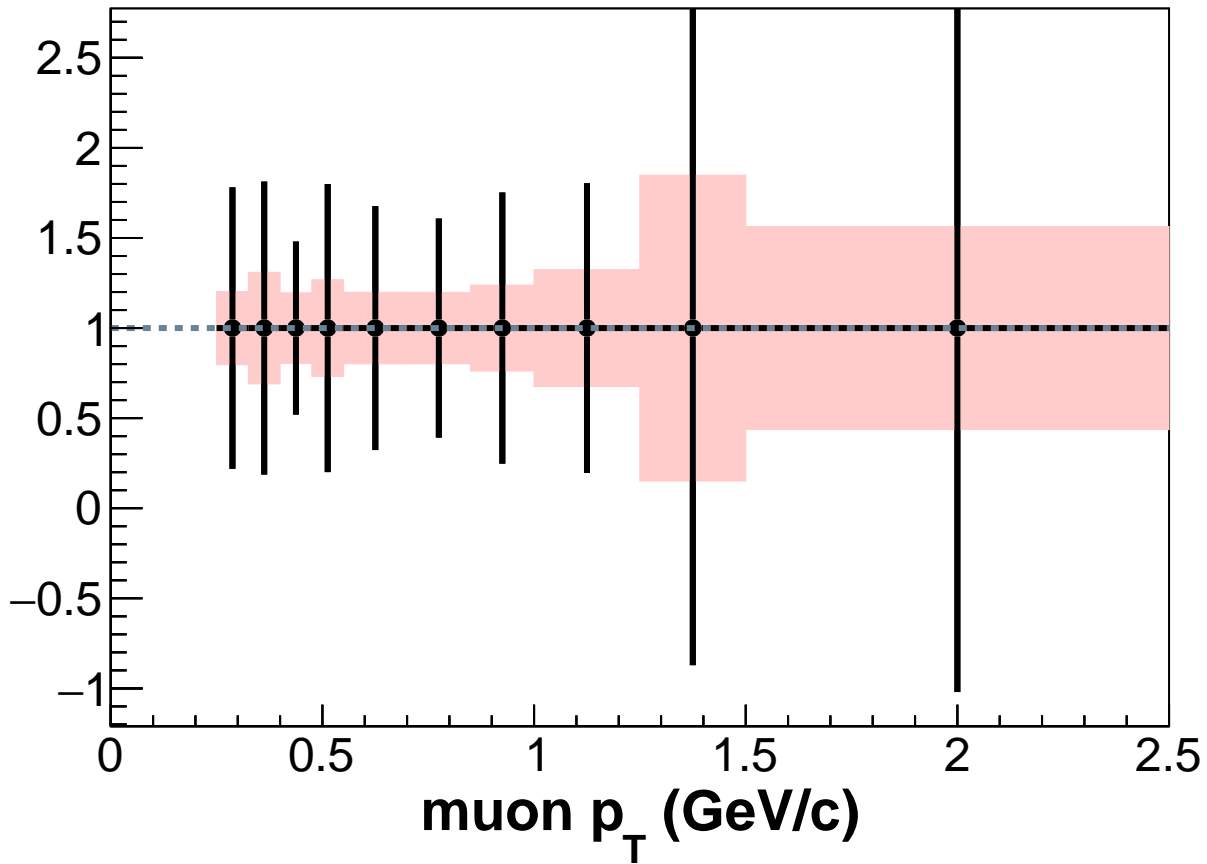
Signal Fraction

Counts per unit

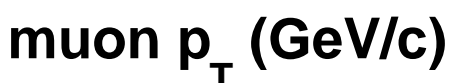


Signal Fraction

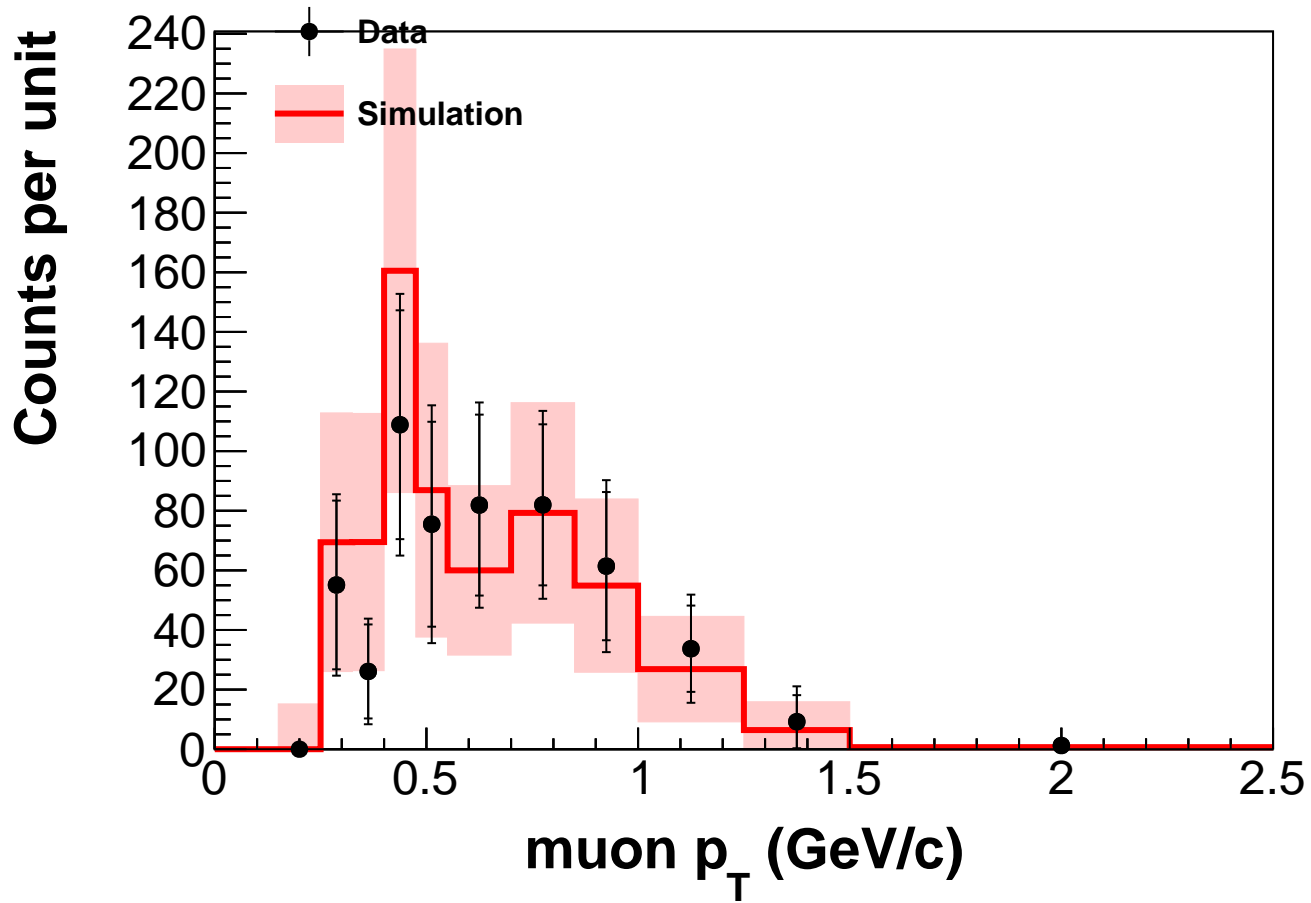
Data / MC



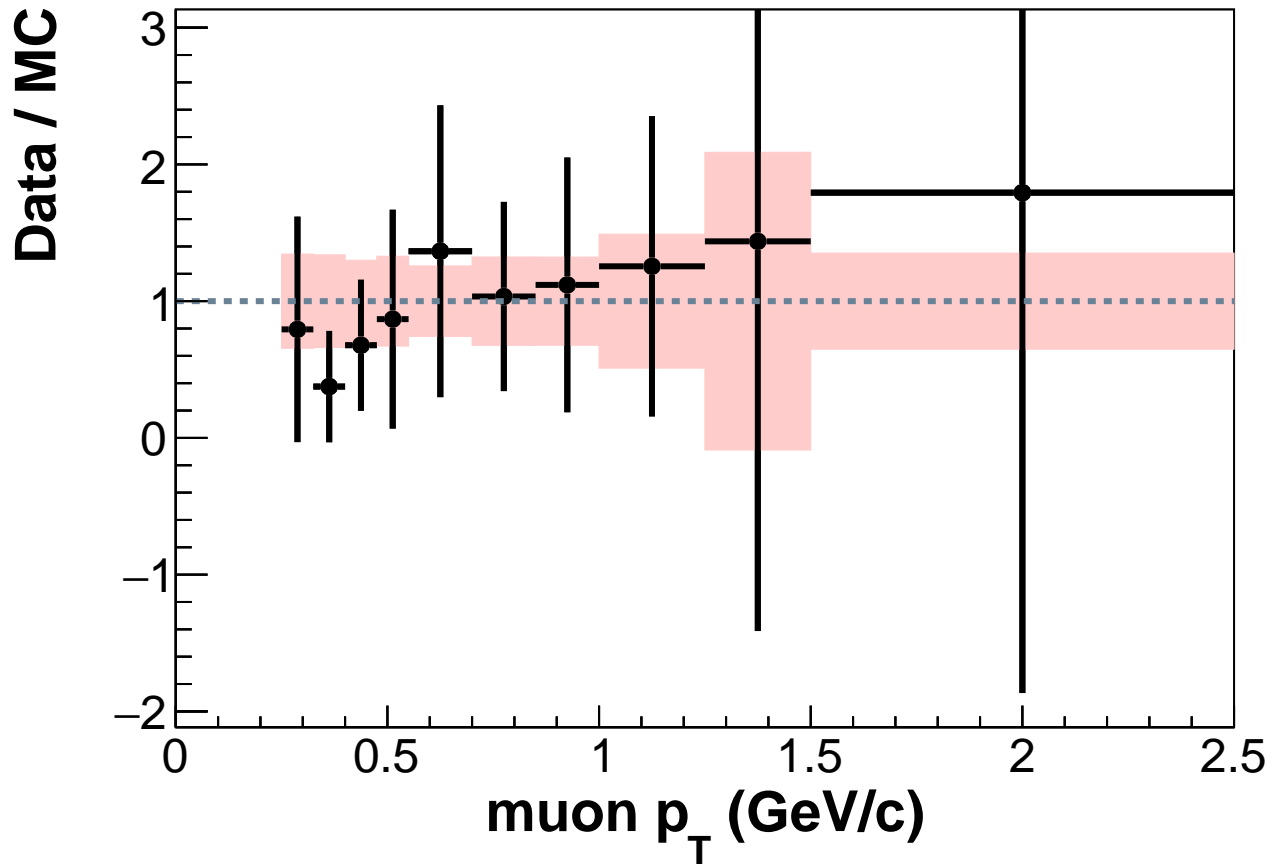
Signal Fraction Systematics



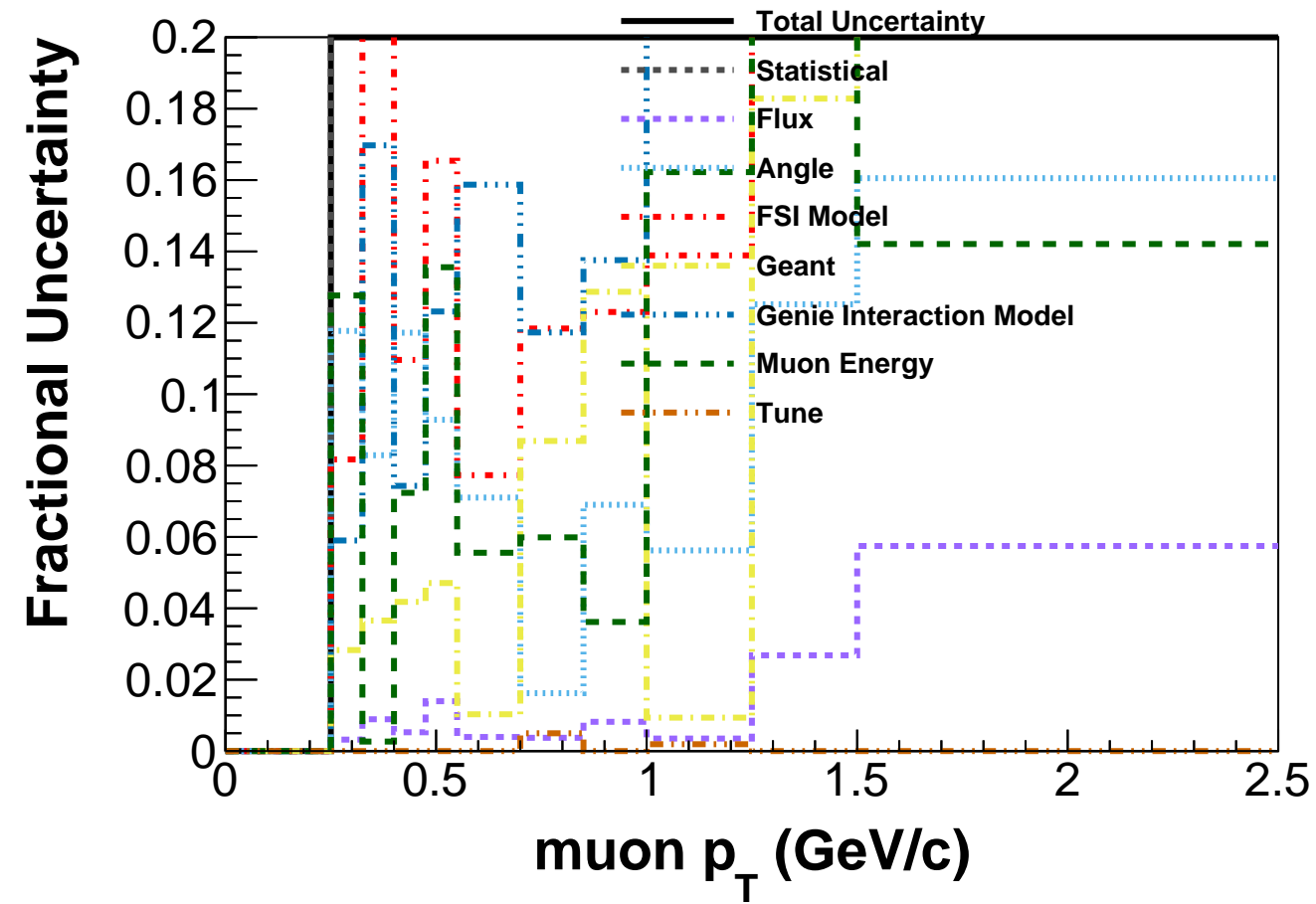
BKGsub vs. MC signal



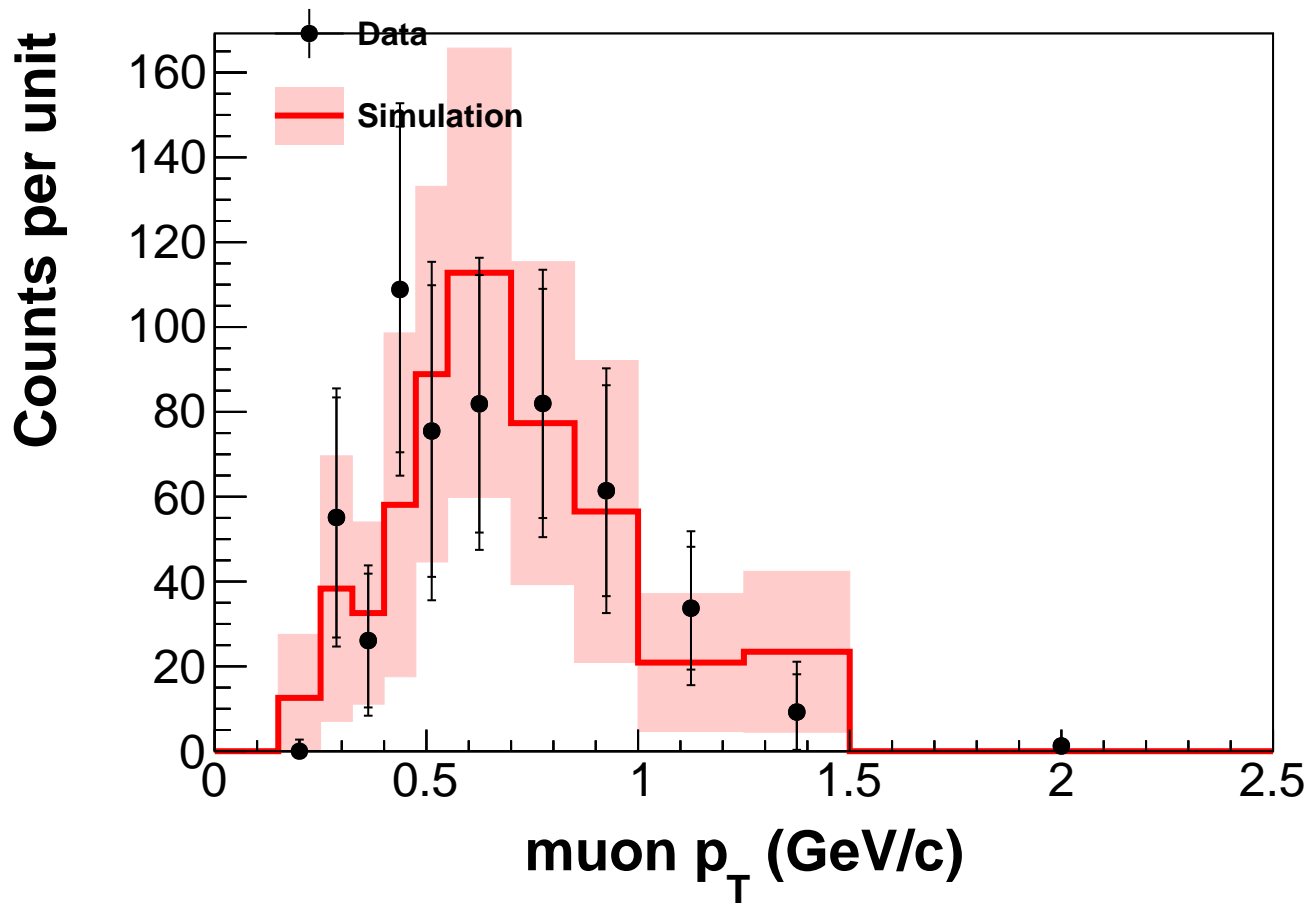
BKGsub vs. MC signal



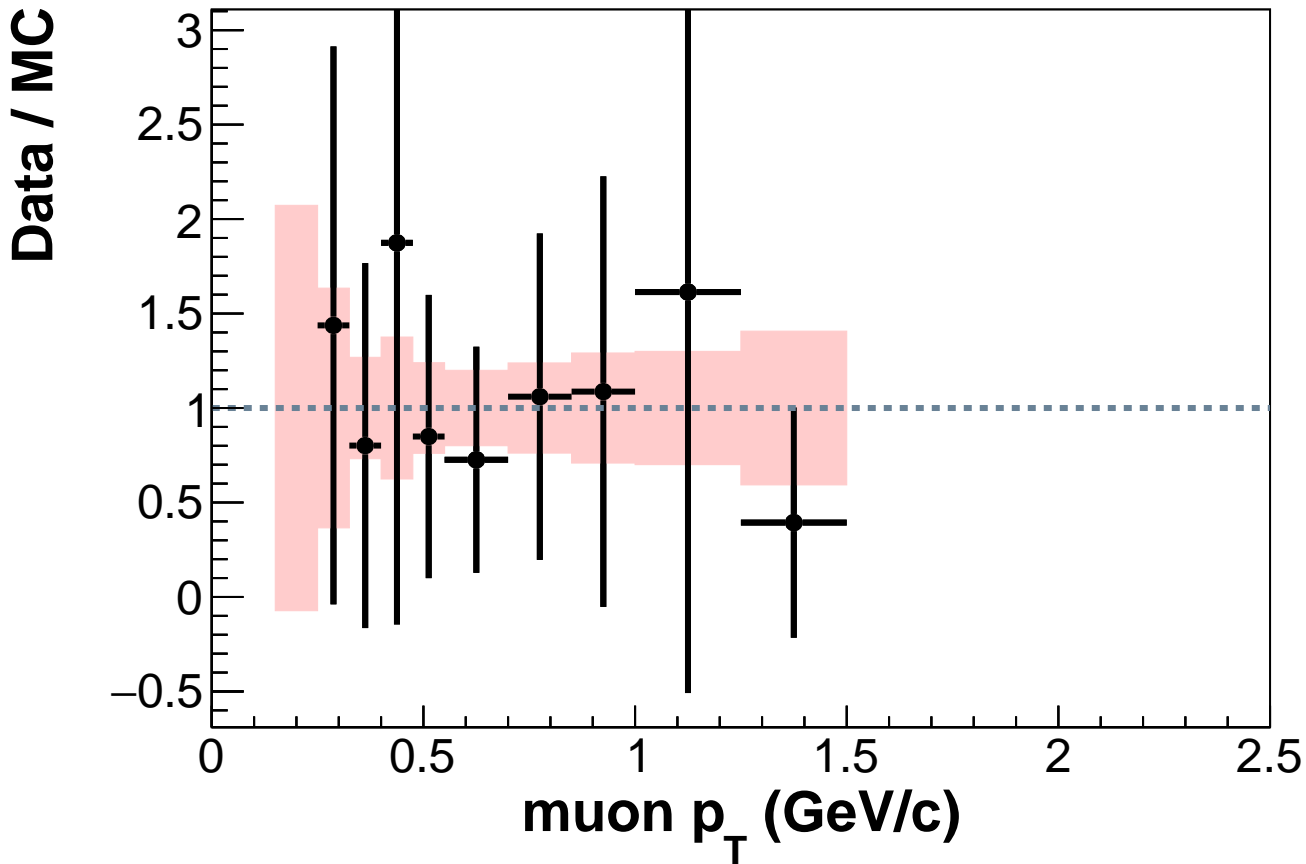
BKGsub Systematics



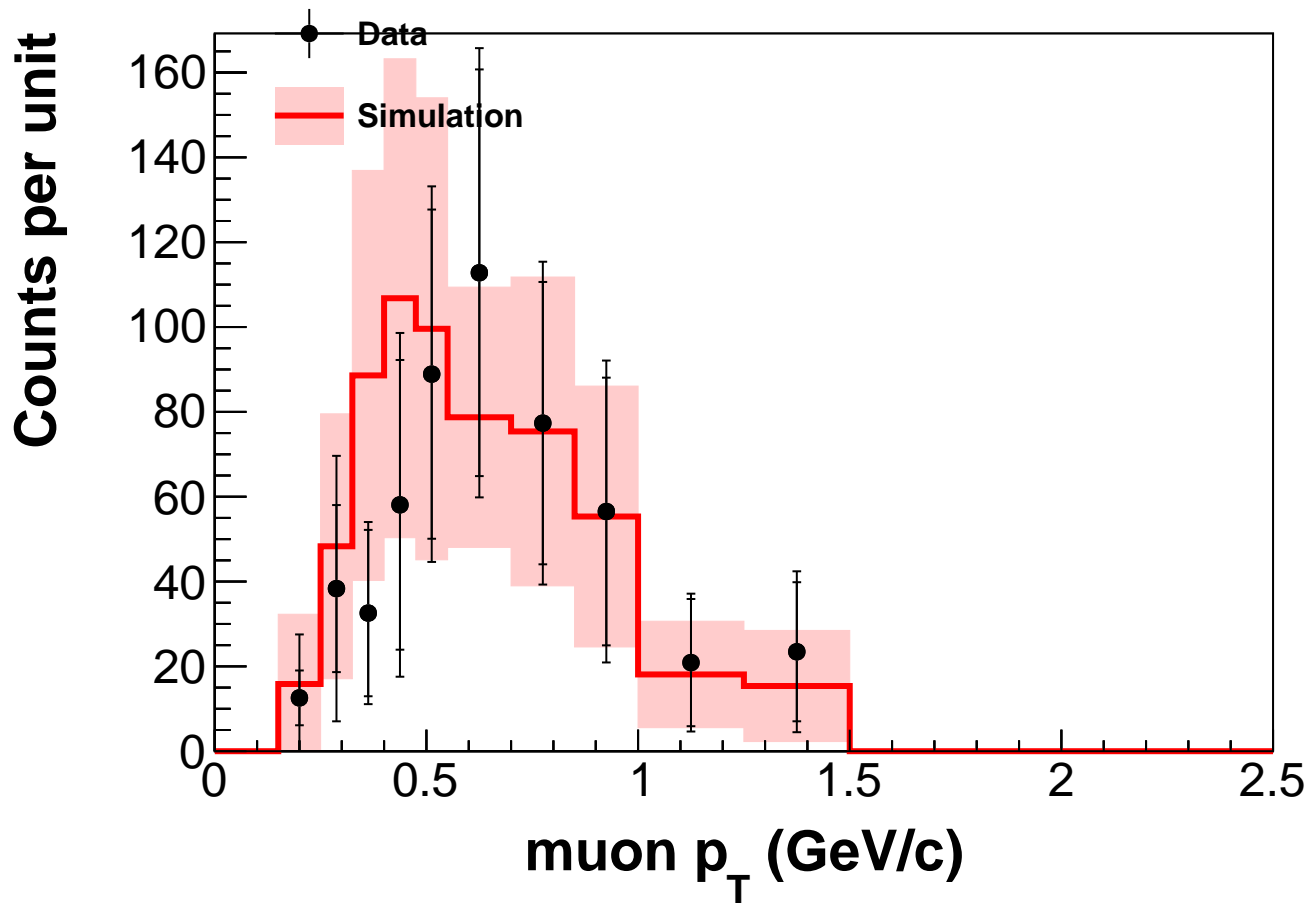
Data Before and After Unsmearing



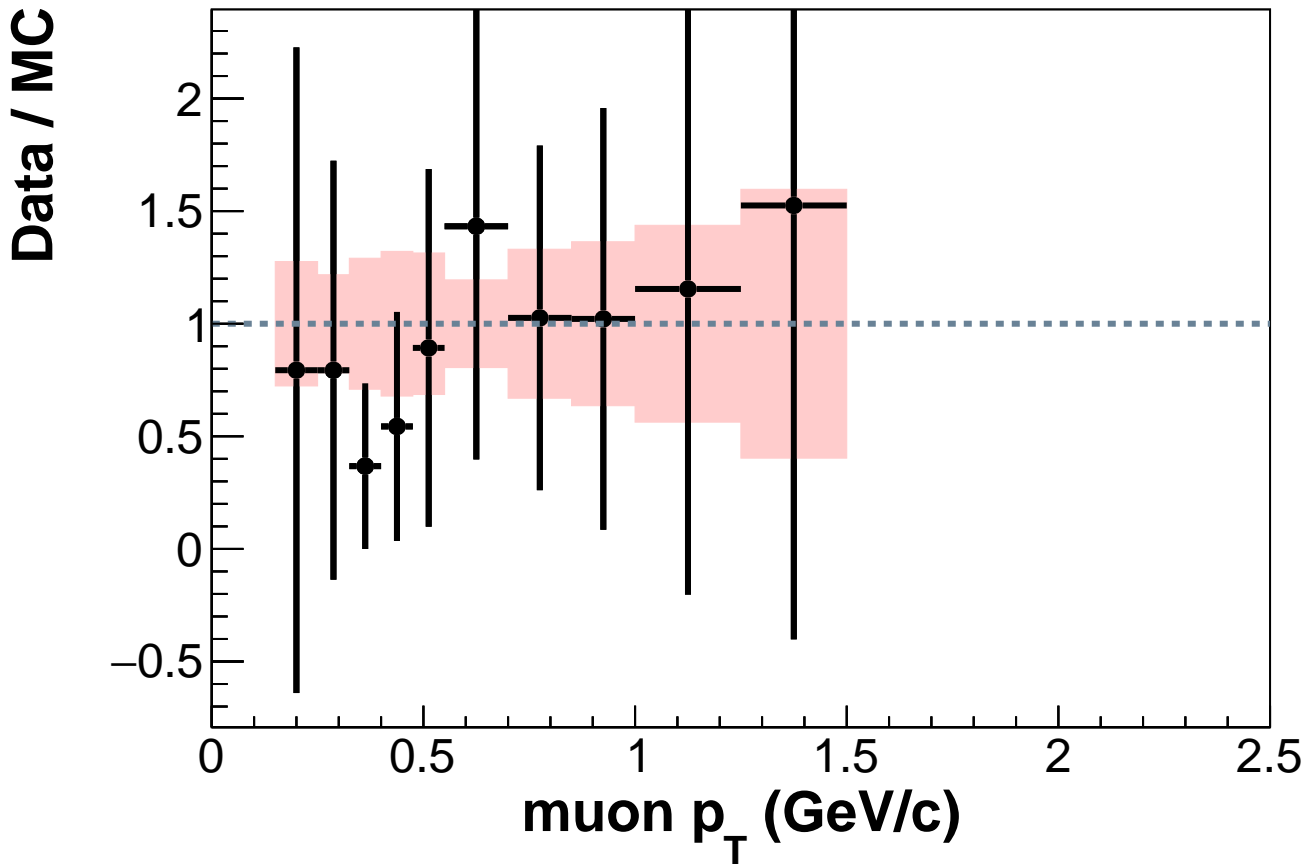
Data Before and After Unsmearing



Unsmeared Data Compared to Selected MC



Unsmeared Data Compared to Selected MC



Unsmeared Data Systematics



—— Total Uncertainty

Statistical

Flux

Angle

FSI Model

Geant

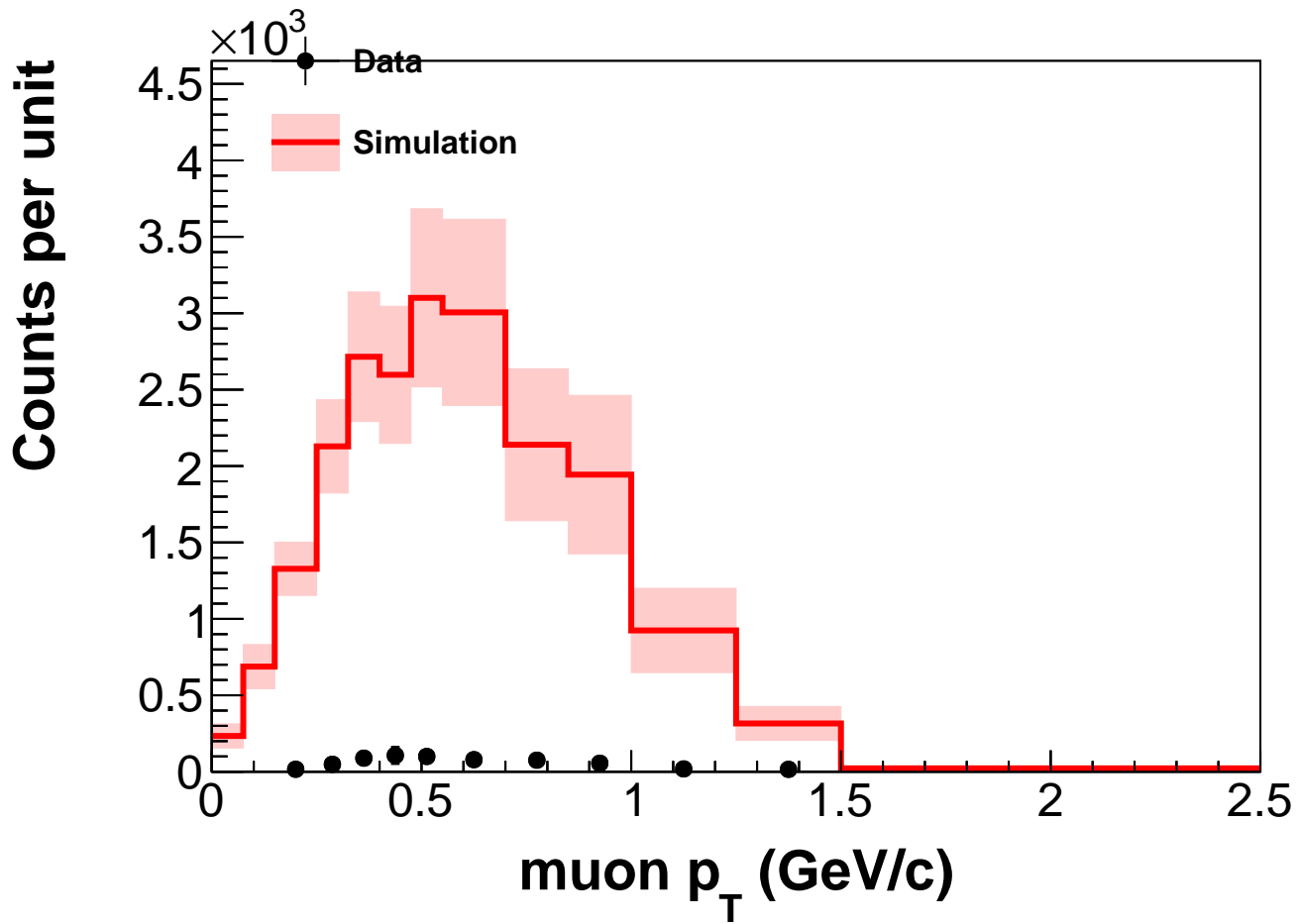
Genie Interaction Model

Muon Energy

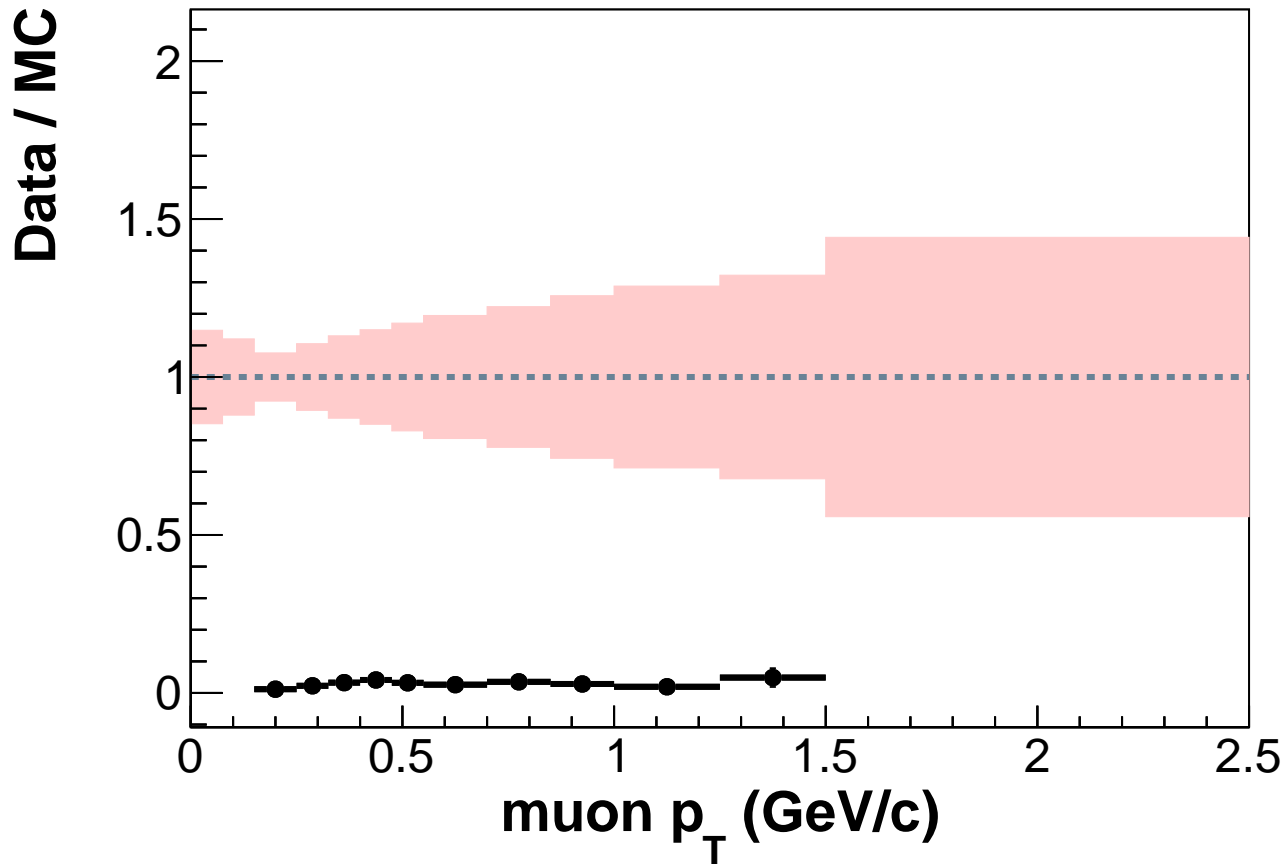
Tune

muon p_T (GeV/c)

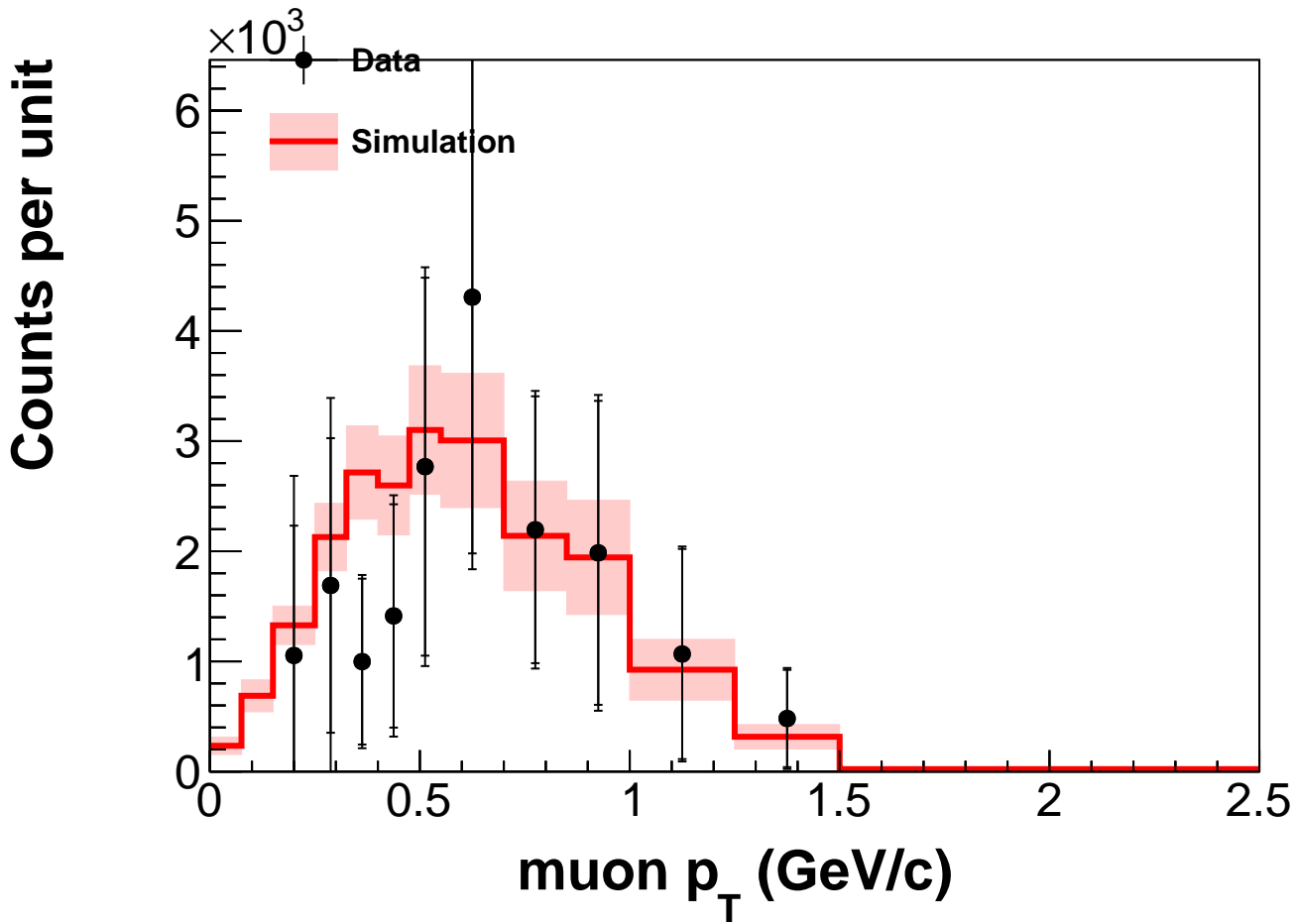
efficiency: selected and true



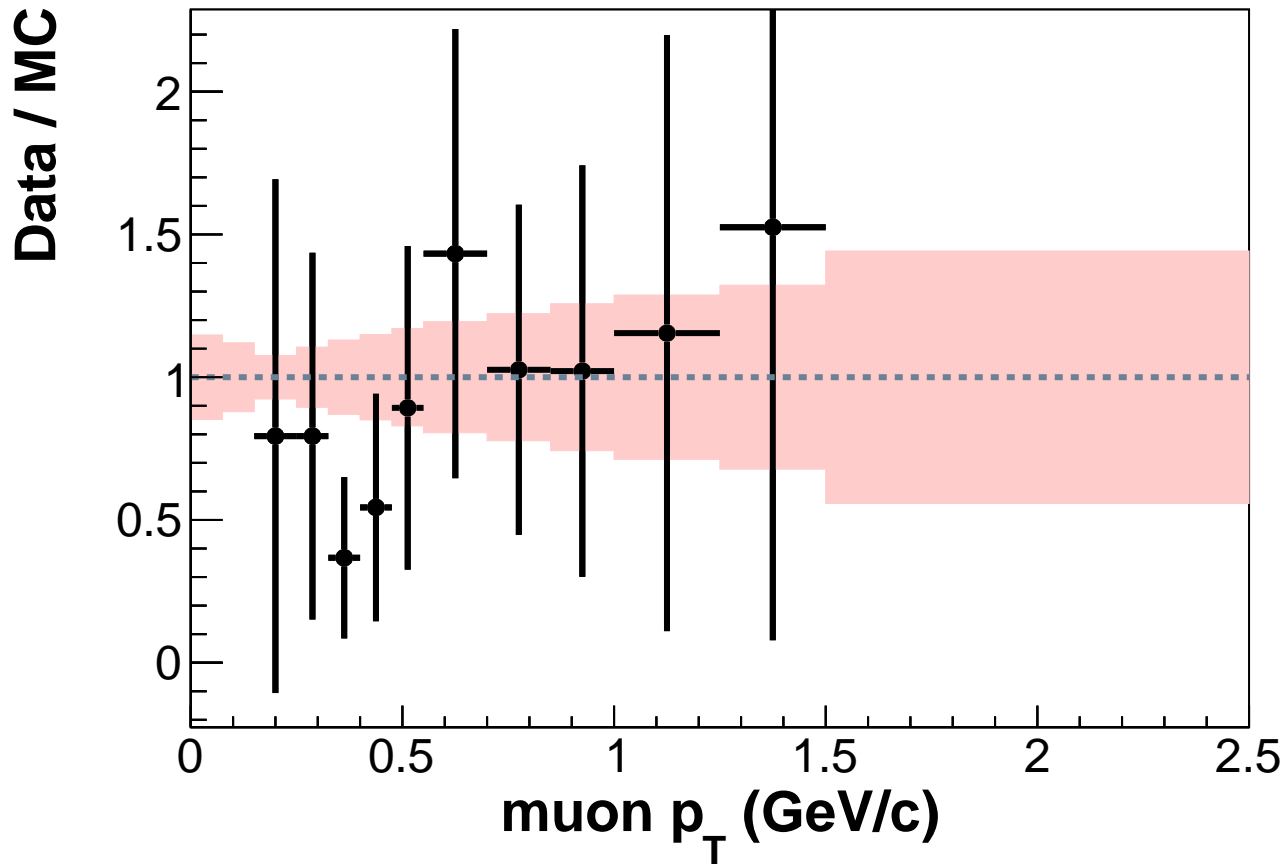
efficiency: selected and true



effcorr data vs truth



effcorr data vs truth

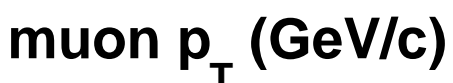


Efficiency Factor Systematics



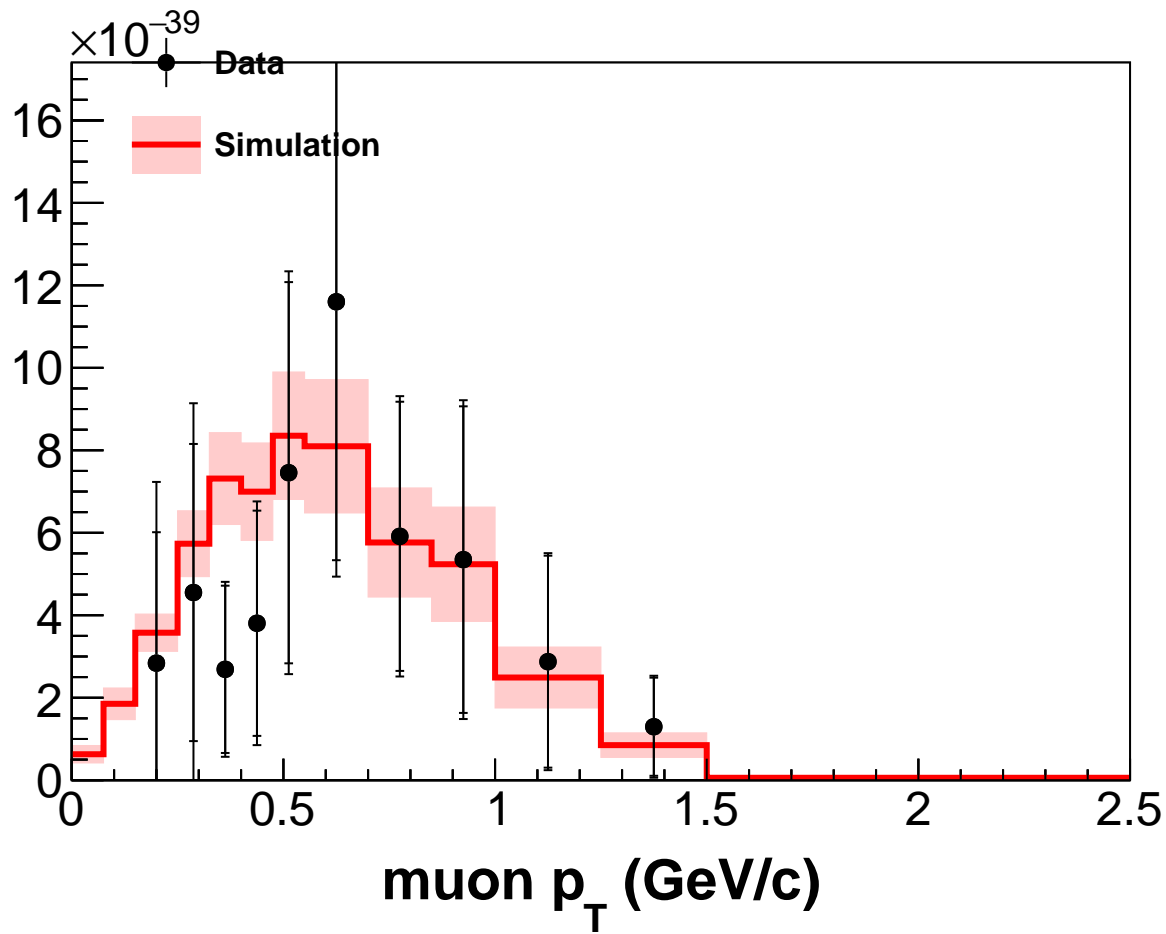
muon p_T (GeV/c)

Efficiency Corrected Data Systematics



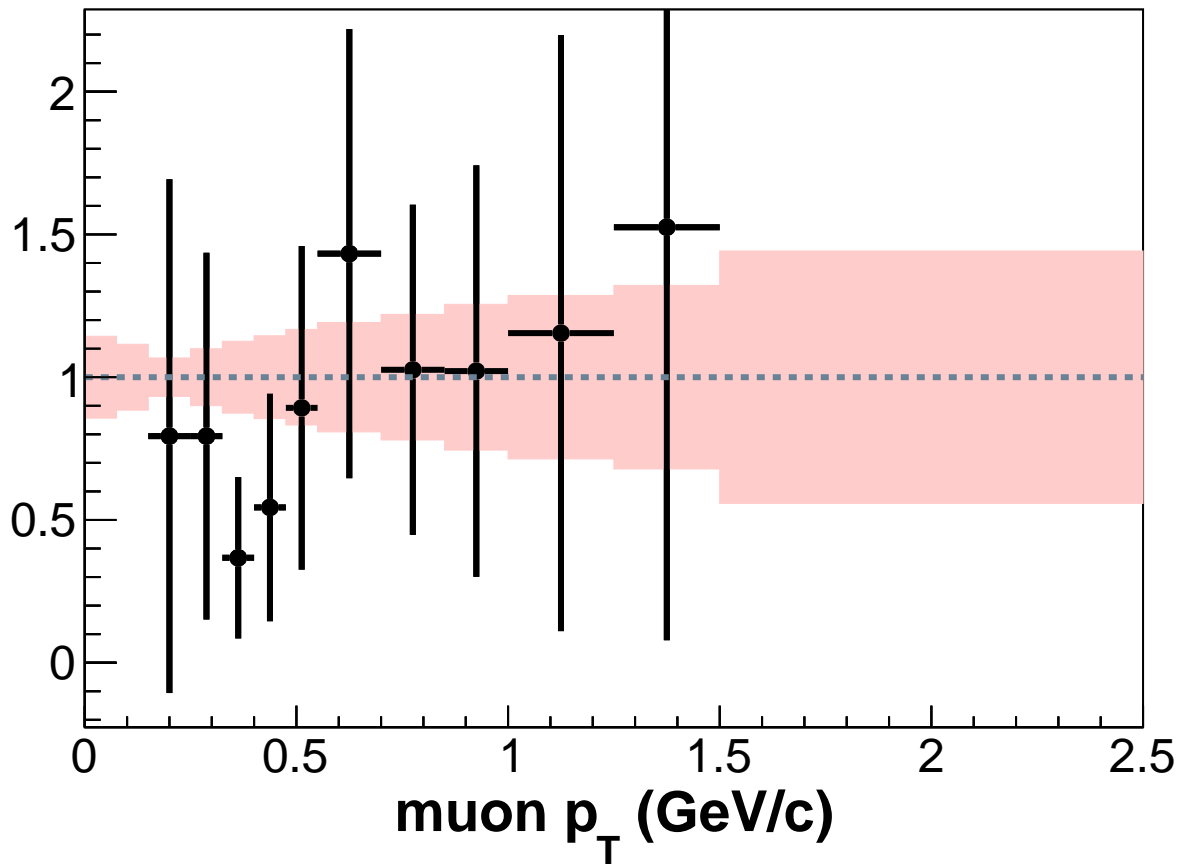
Counts per unit

sigma



sigma

Data / MC

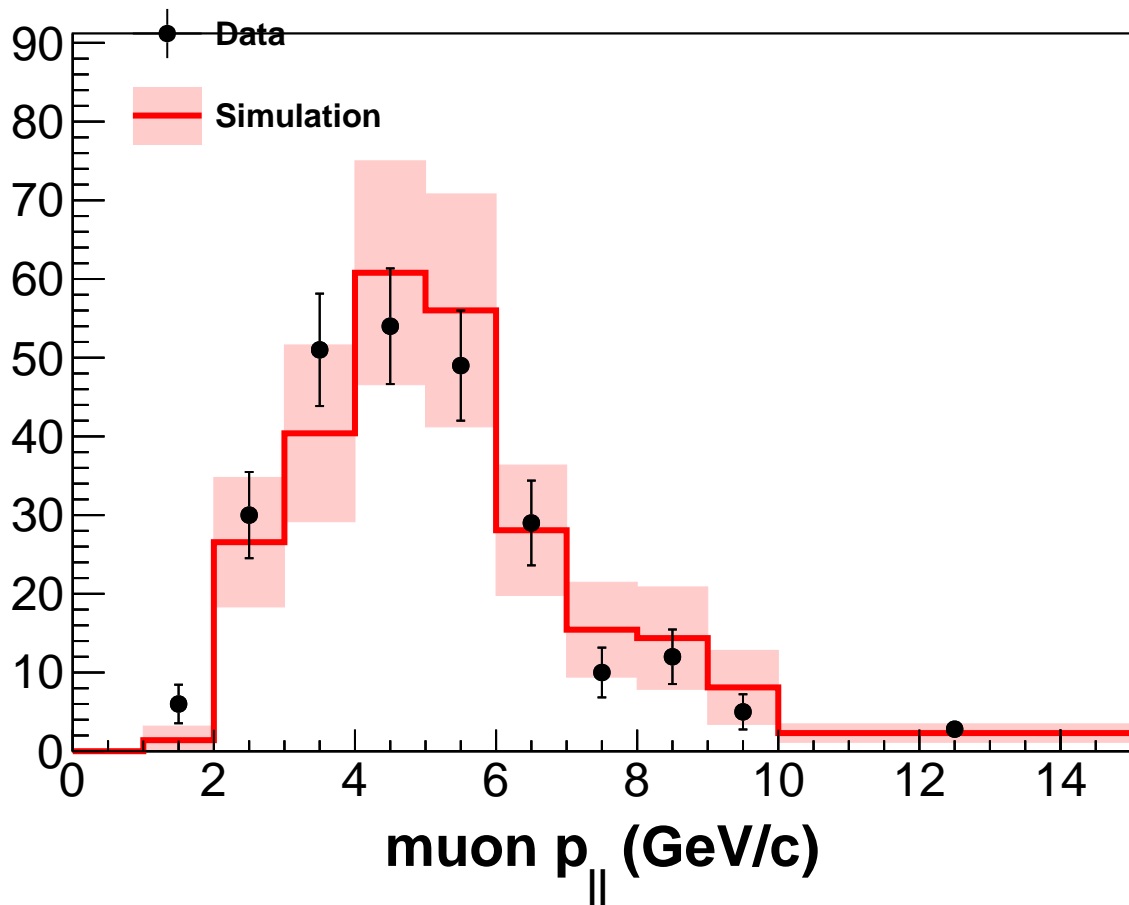


Cross Section Systematics

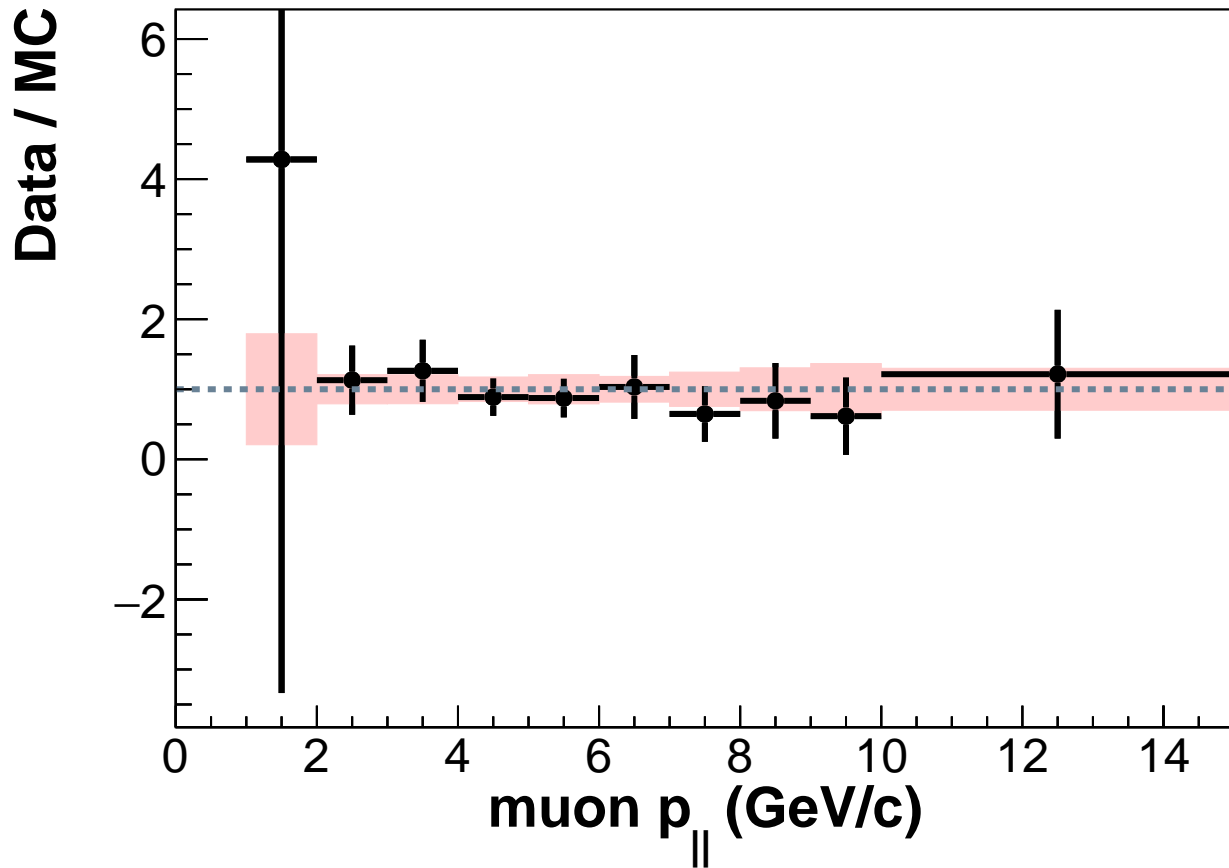


DATA_vs_MC

Counts per unit



DATA_vs_MC

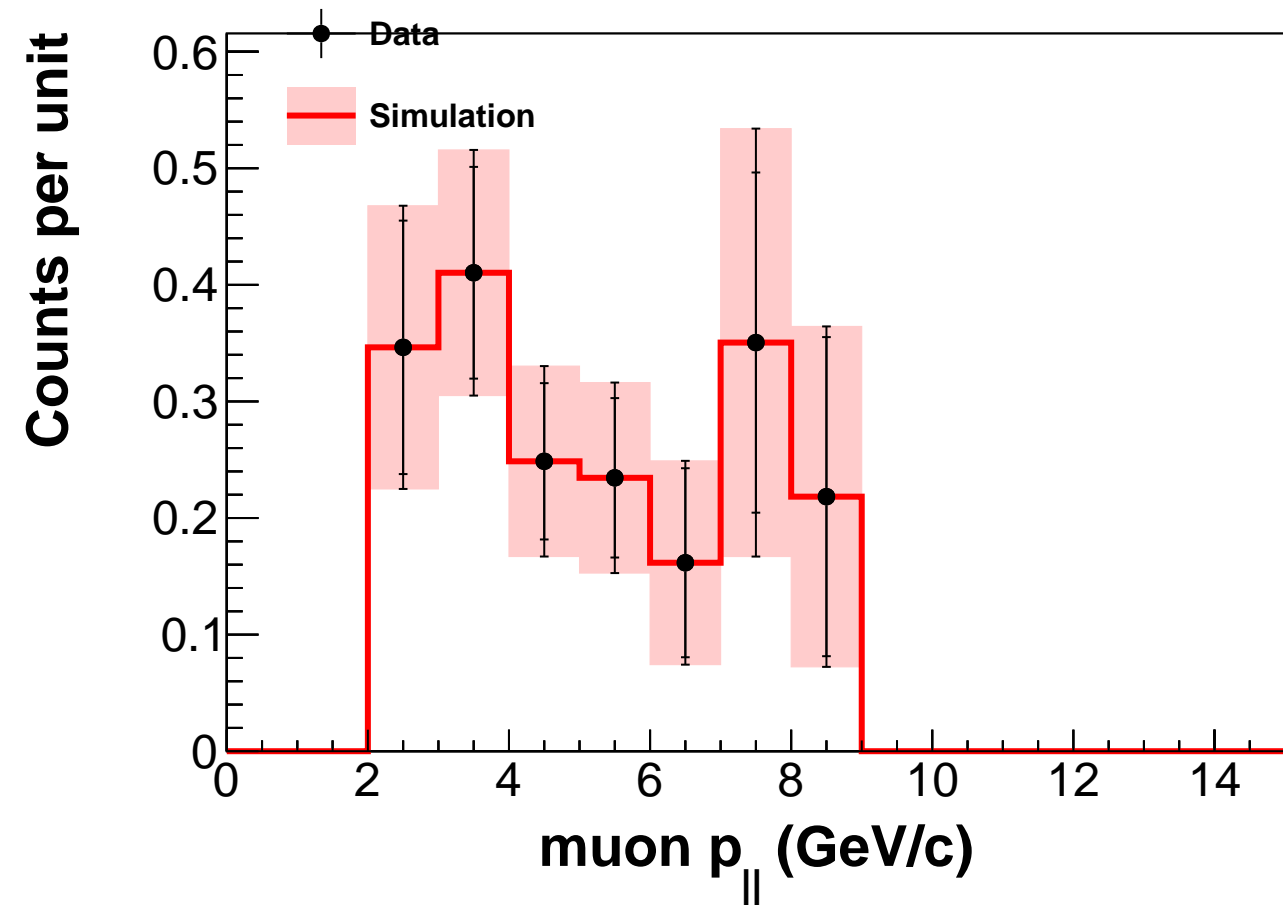


Raw MC Systematics

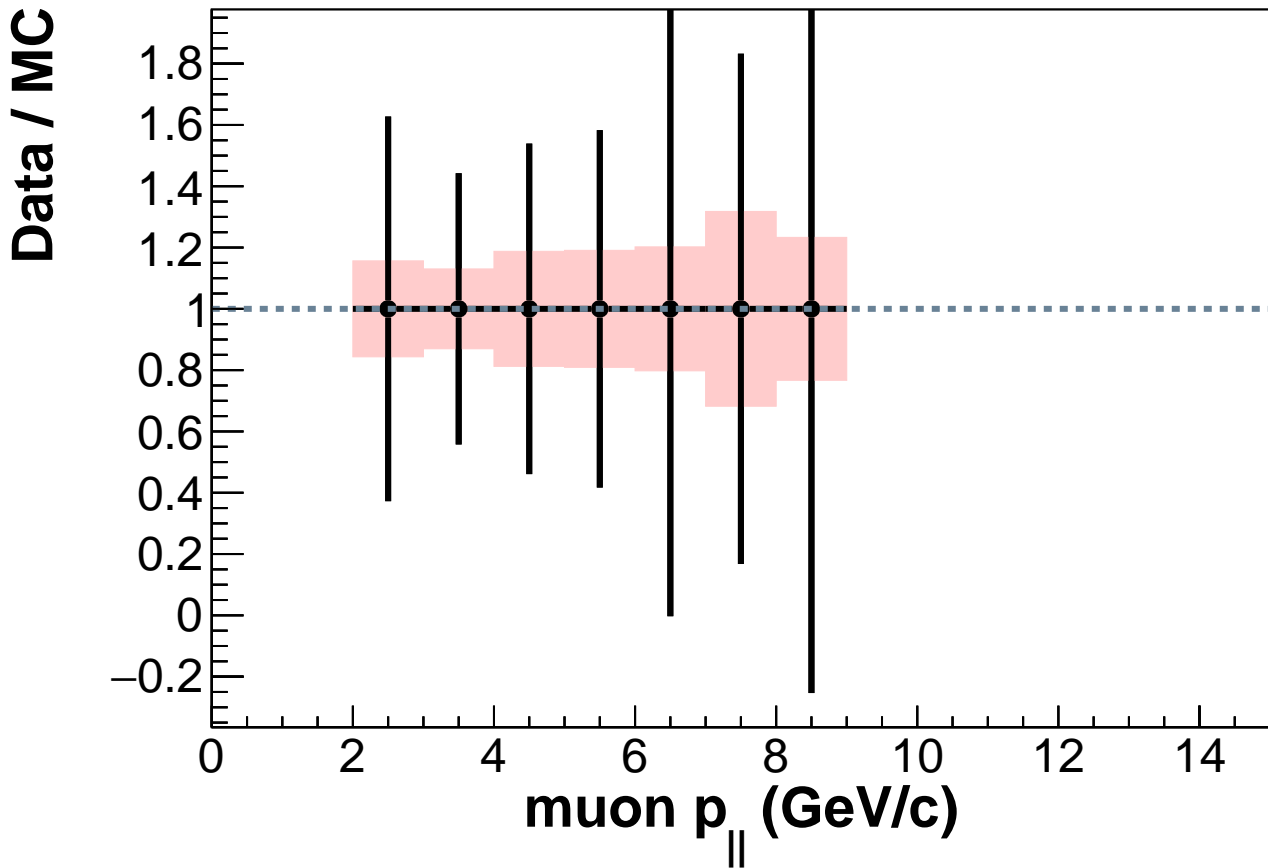


muon p_{\perp} (GeV/c)

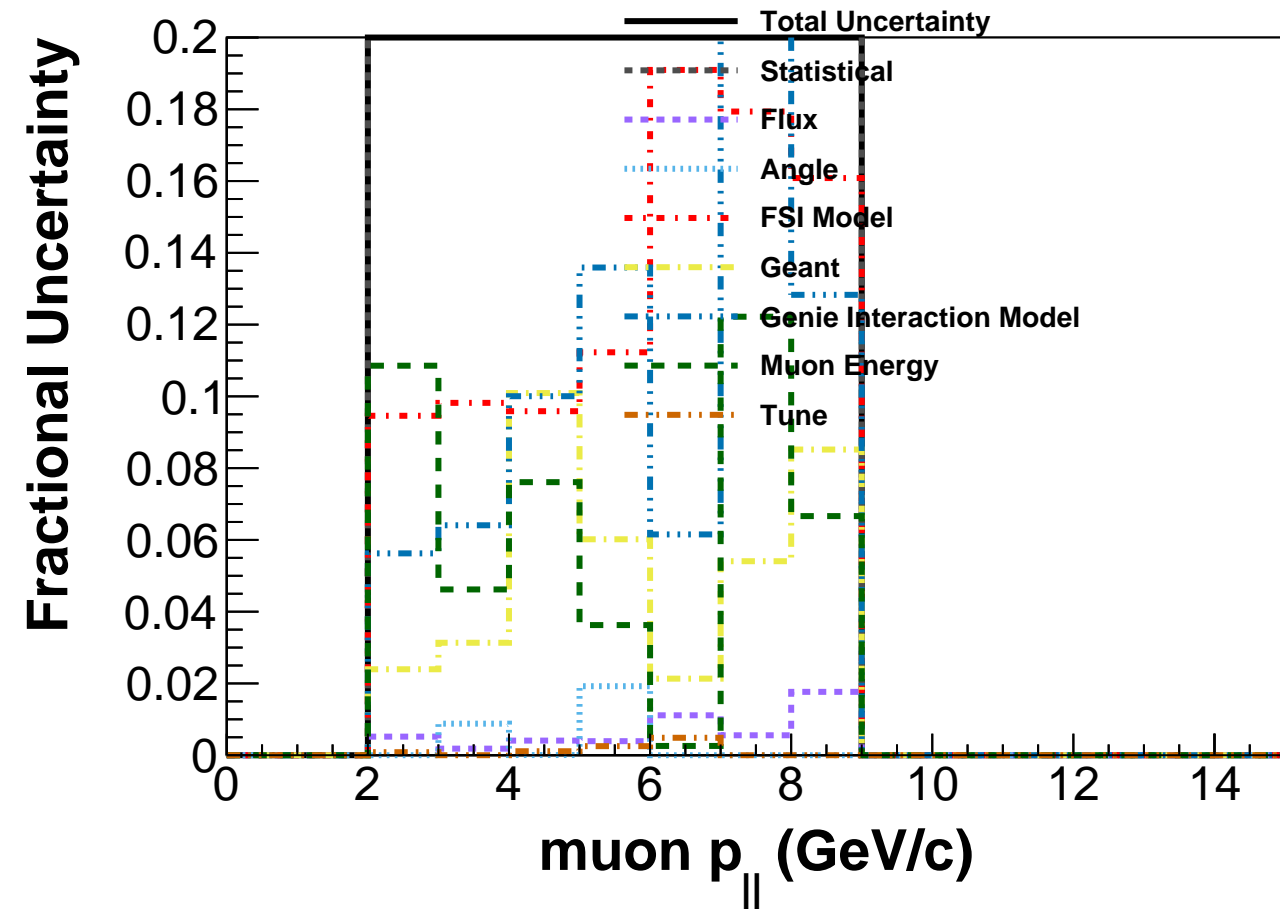
Signal Fraction



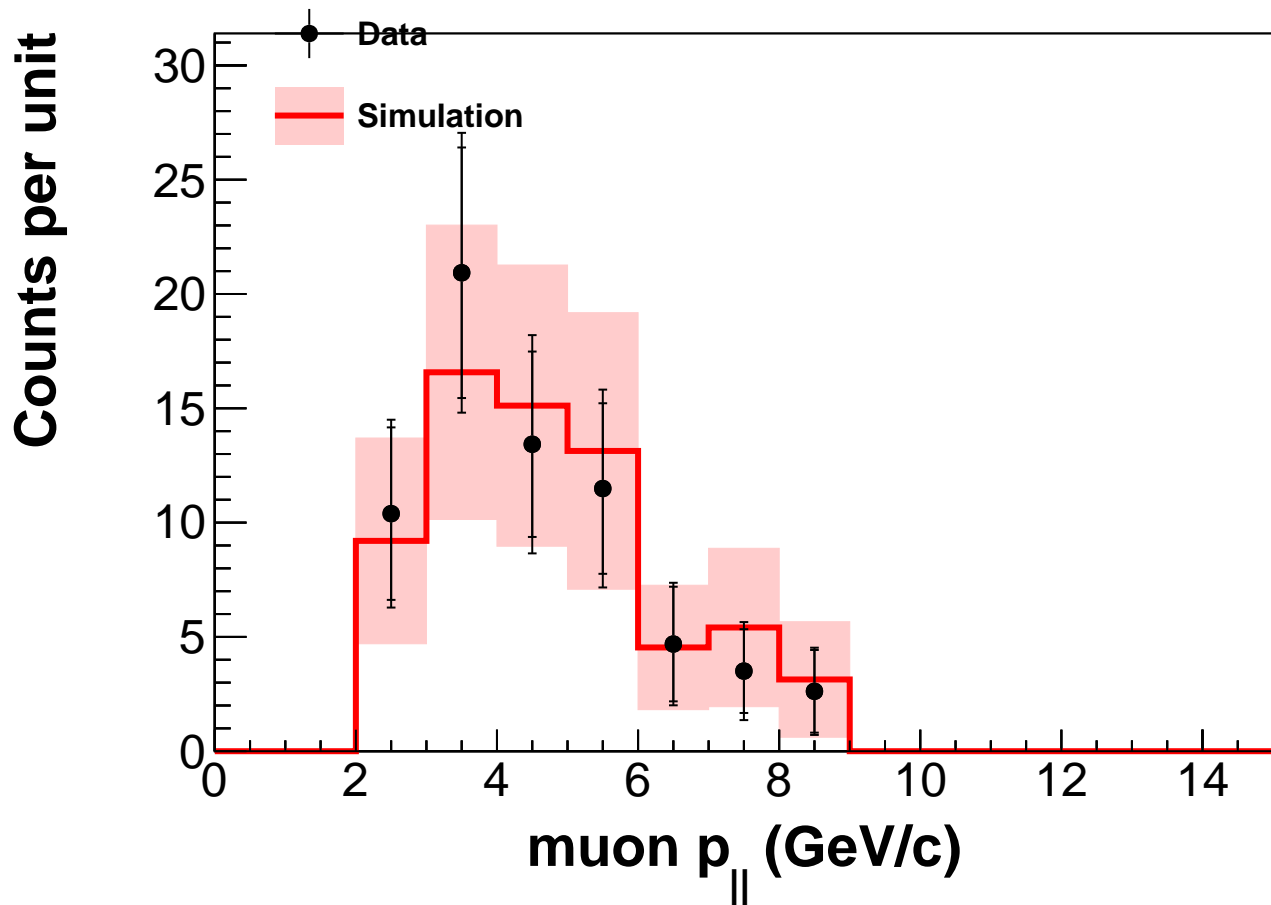
Signal Fraction



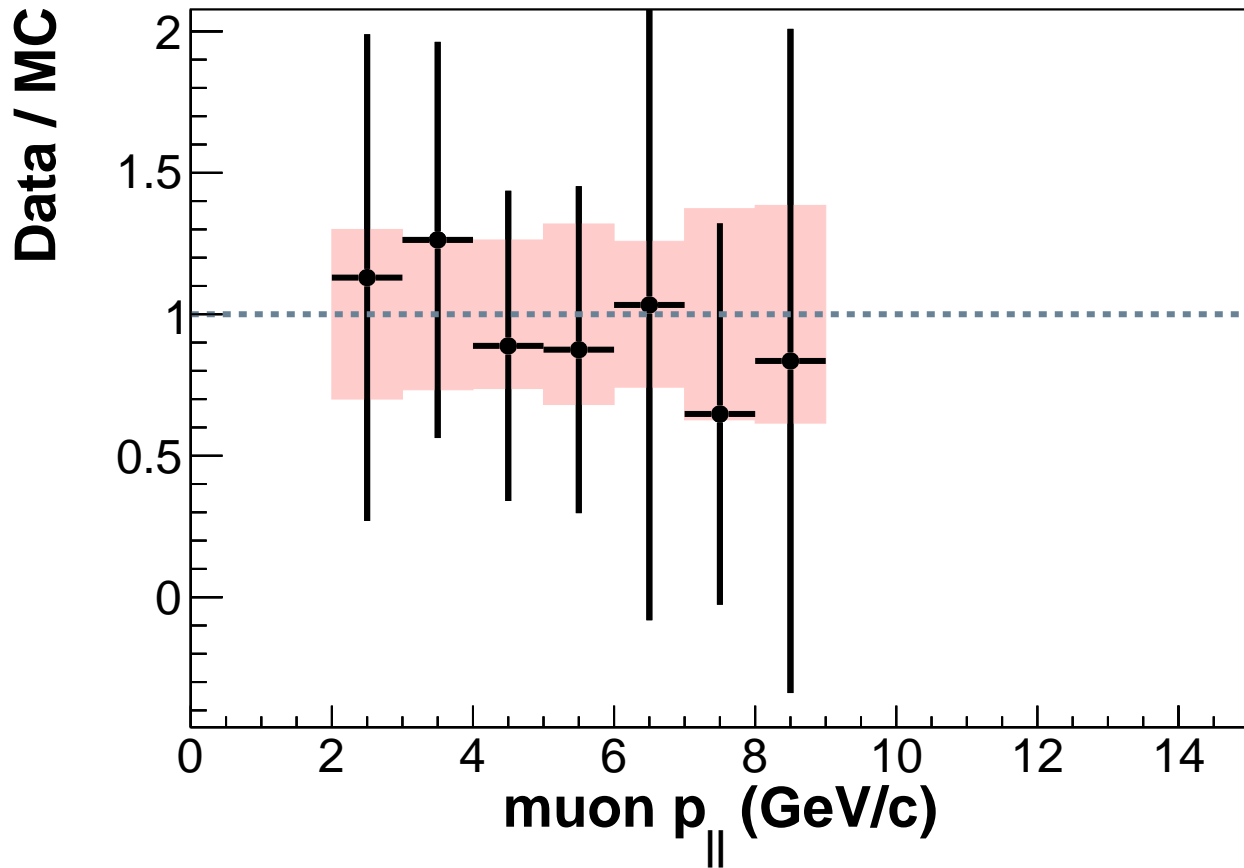
Signal Fraction Systematics



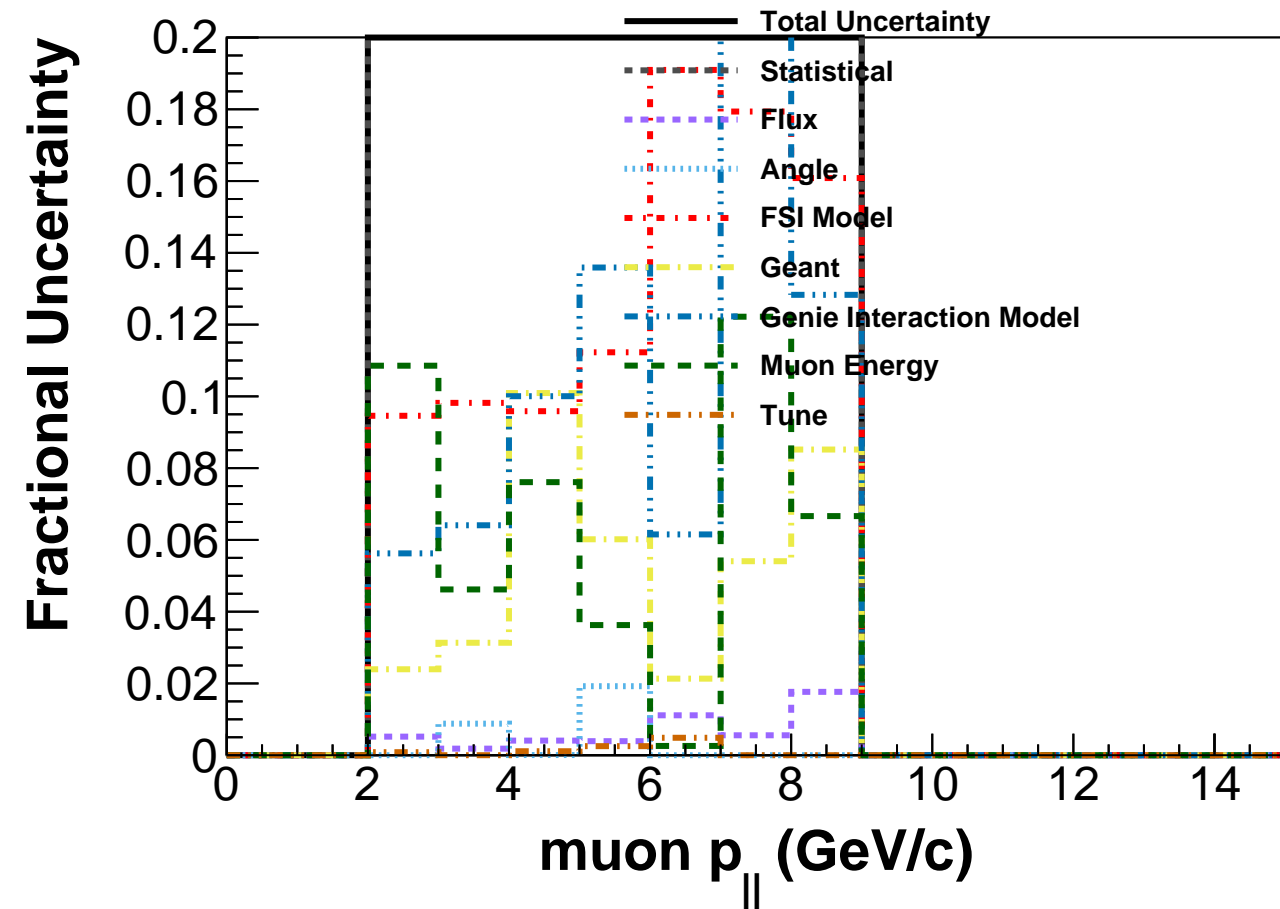
BKGsub vs. MC signal



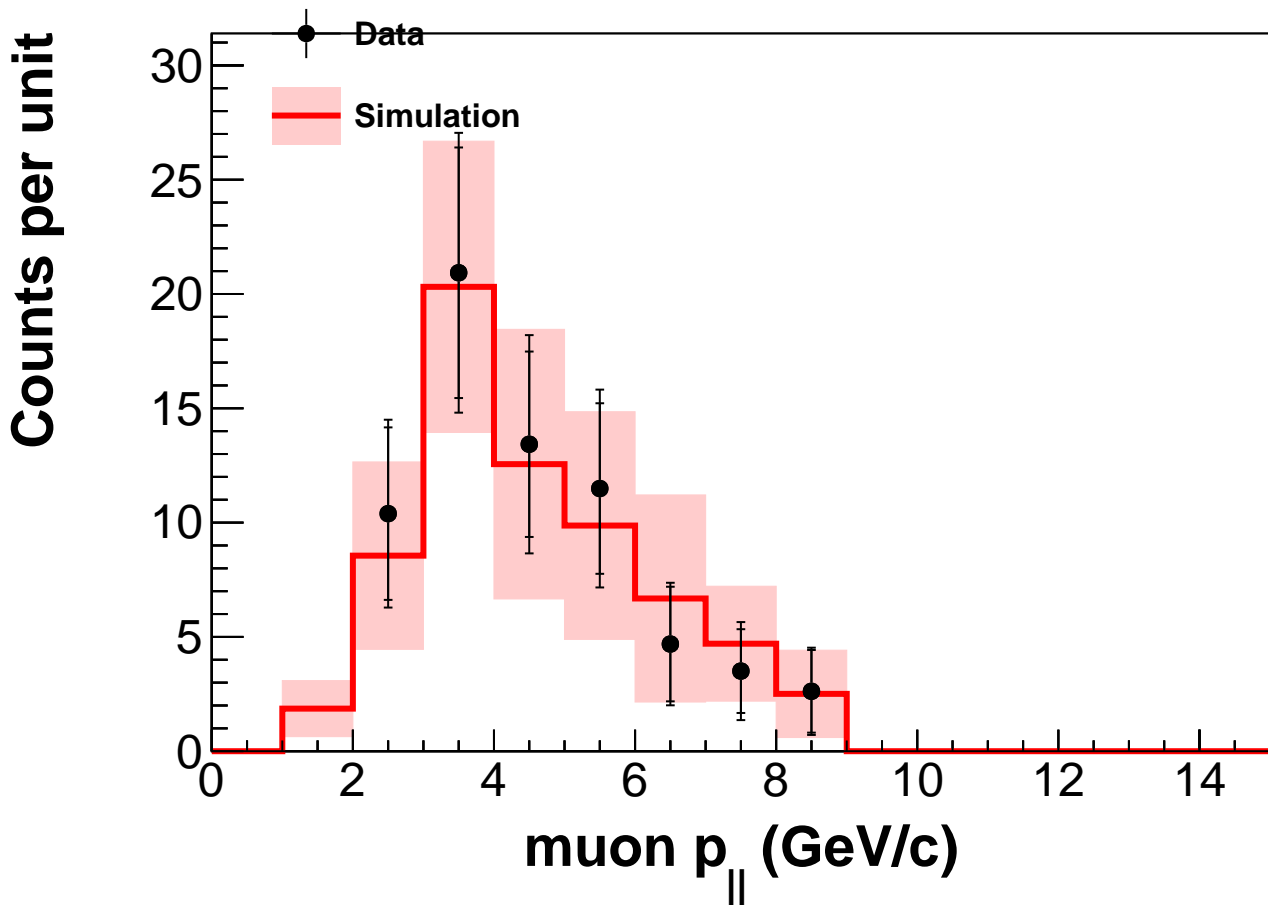
BKGsub vs. MC signal



BKGsub Systematics

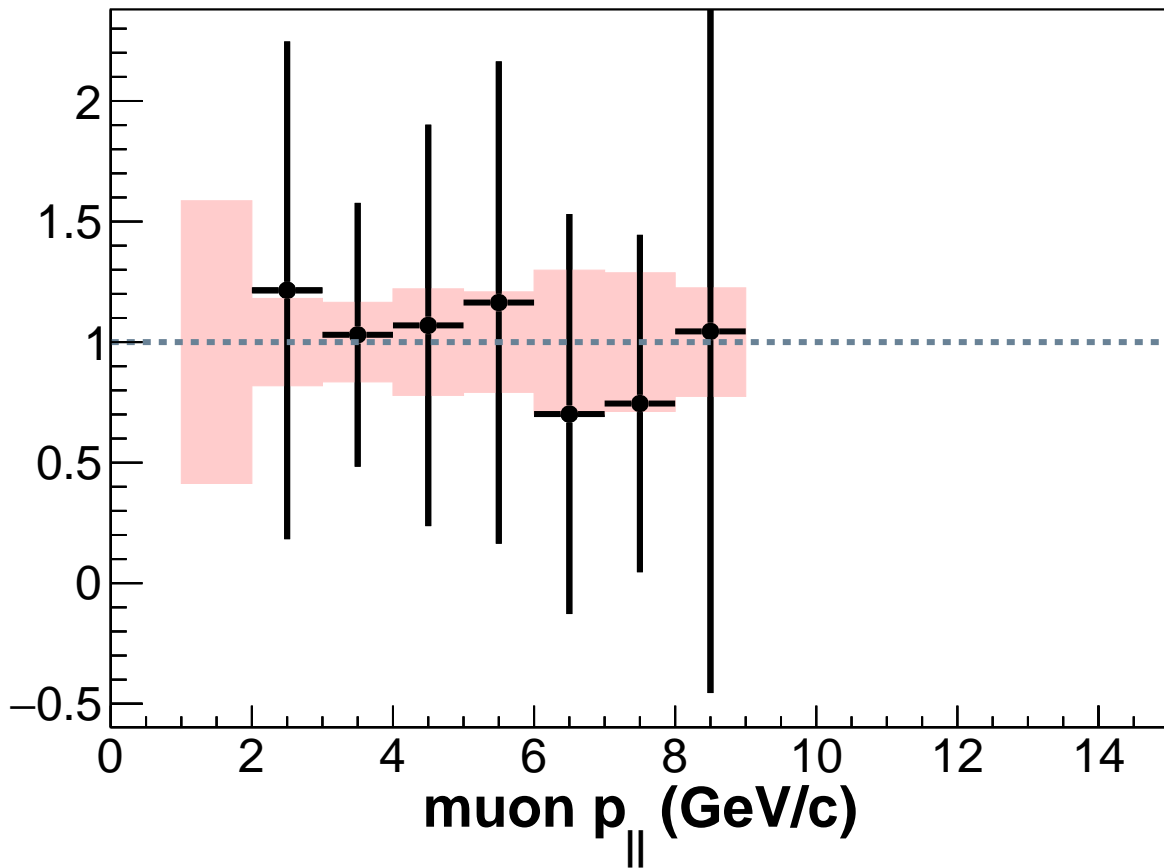


Data Before and After Unsmearing

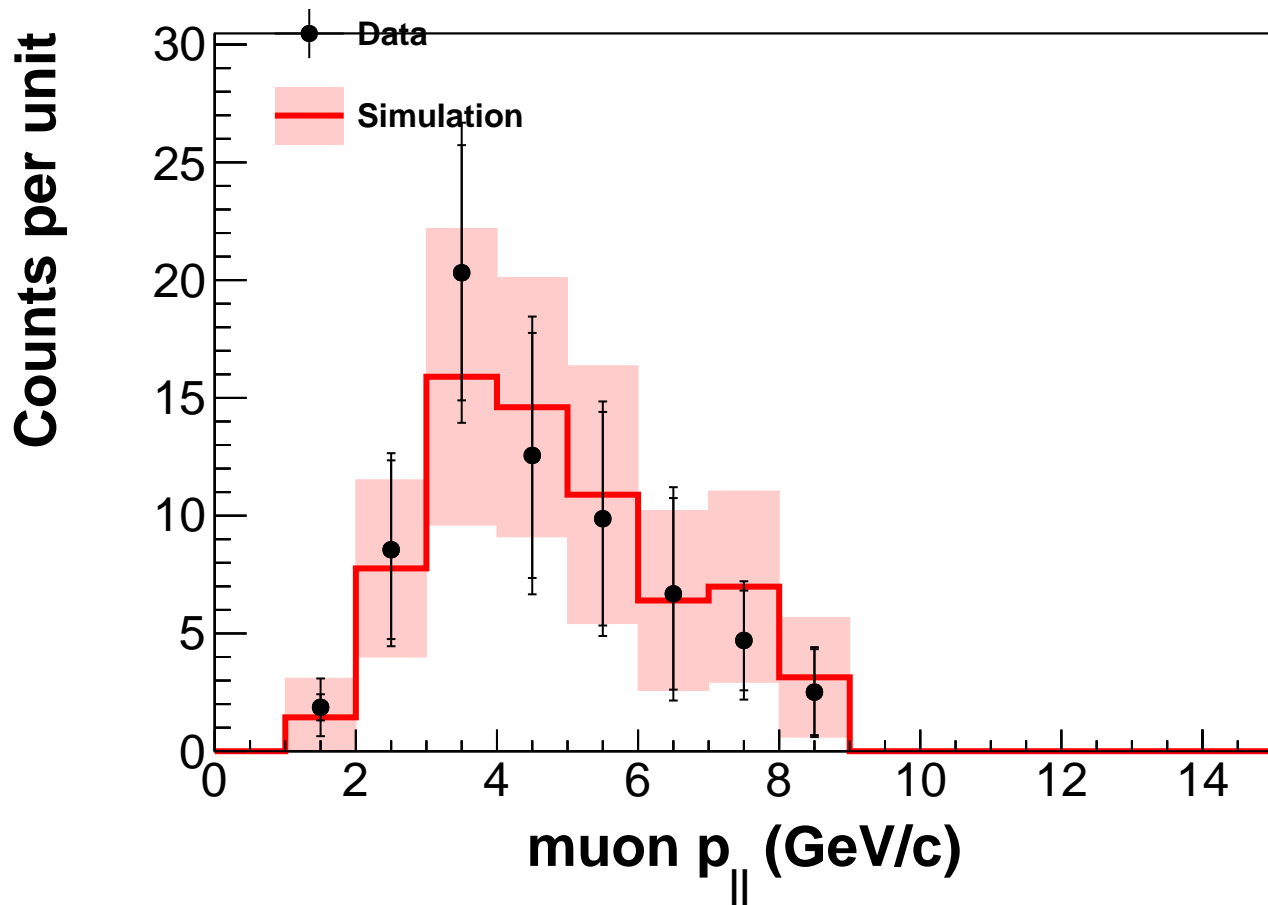


Data Before and After Unsmearing

Data / MC

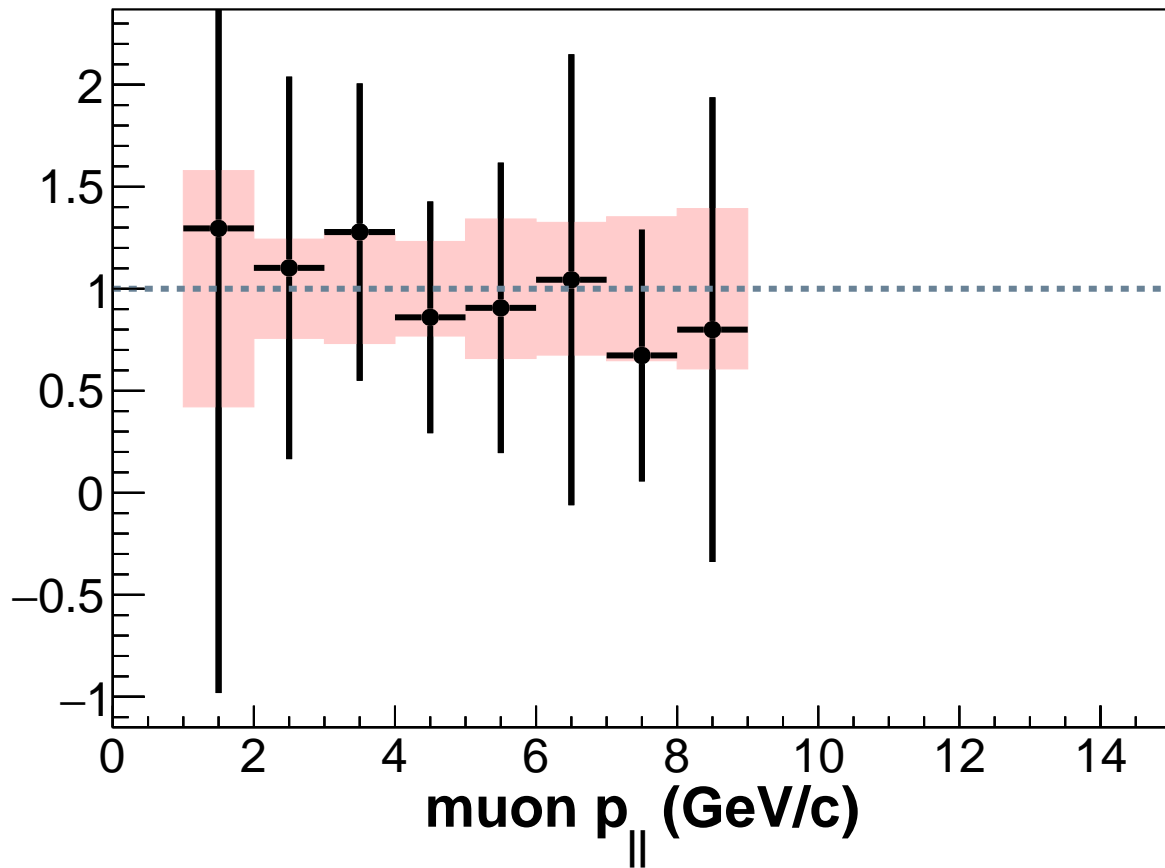


Unsmeared Data Compared to Selected MC



Unsmeared Data Compared to Selected MC

Data / MC

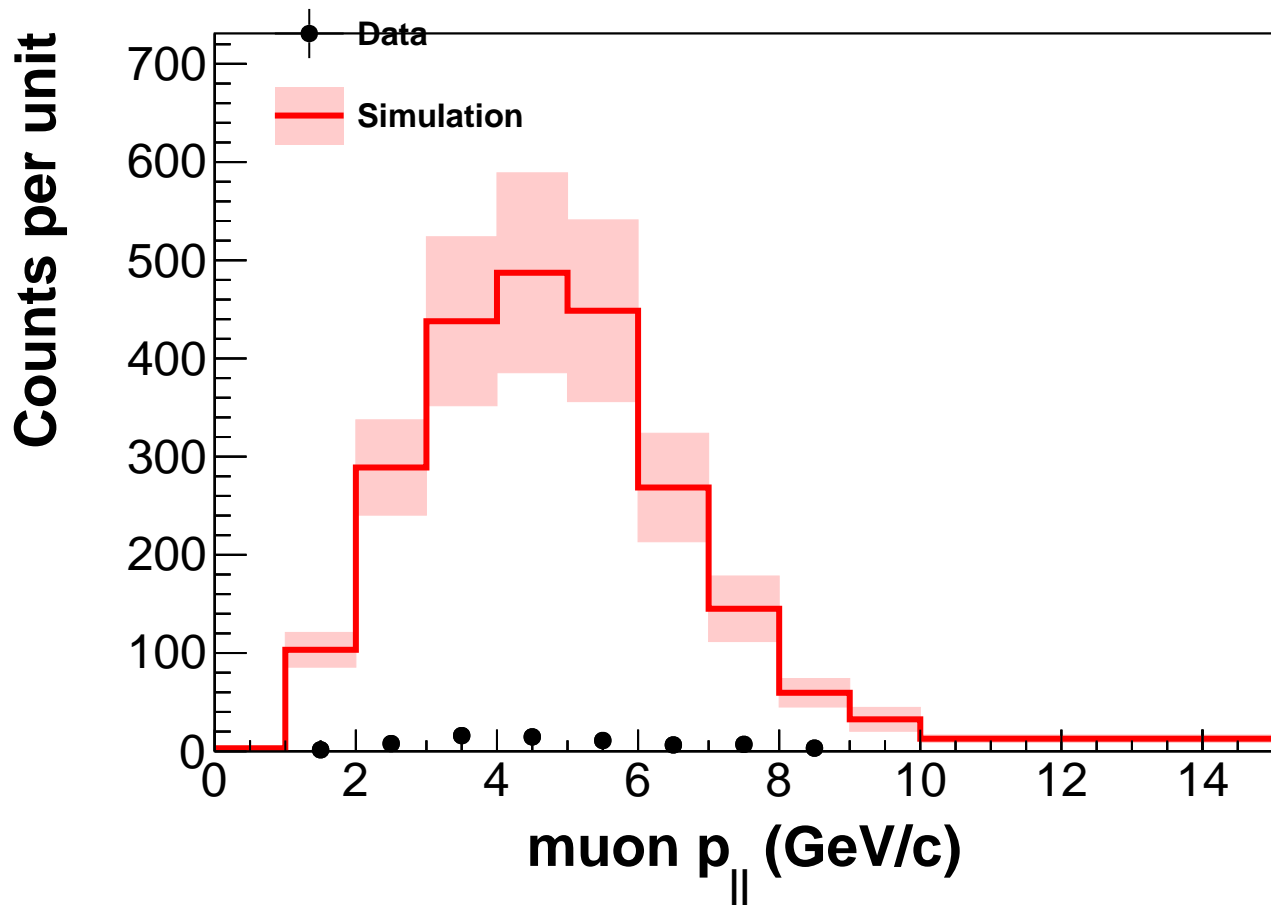


Unsmeared Data Systematics

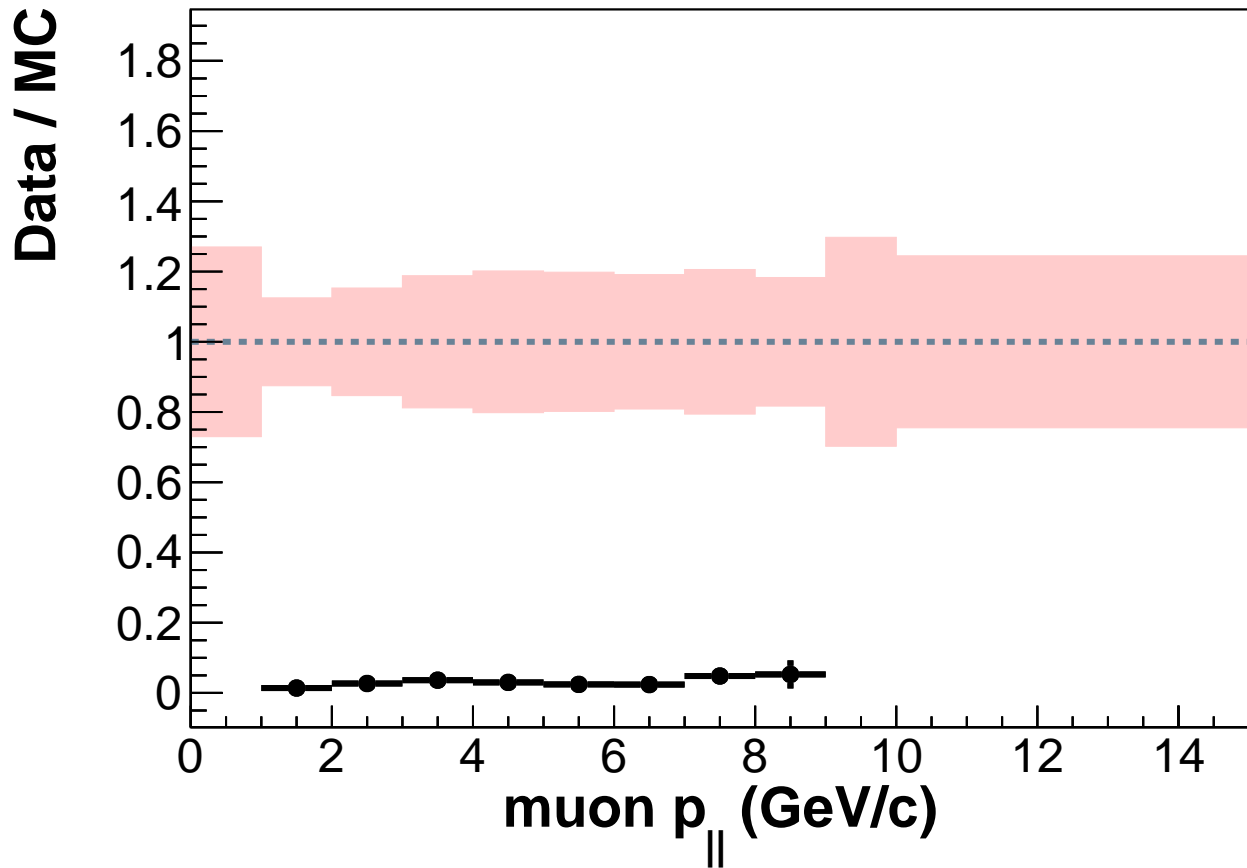


muon p_{\perp} (GeV/c)

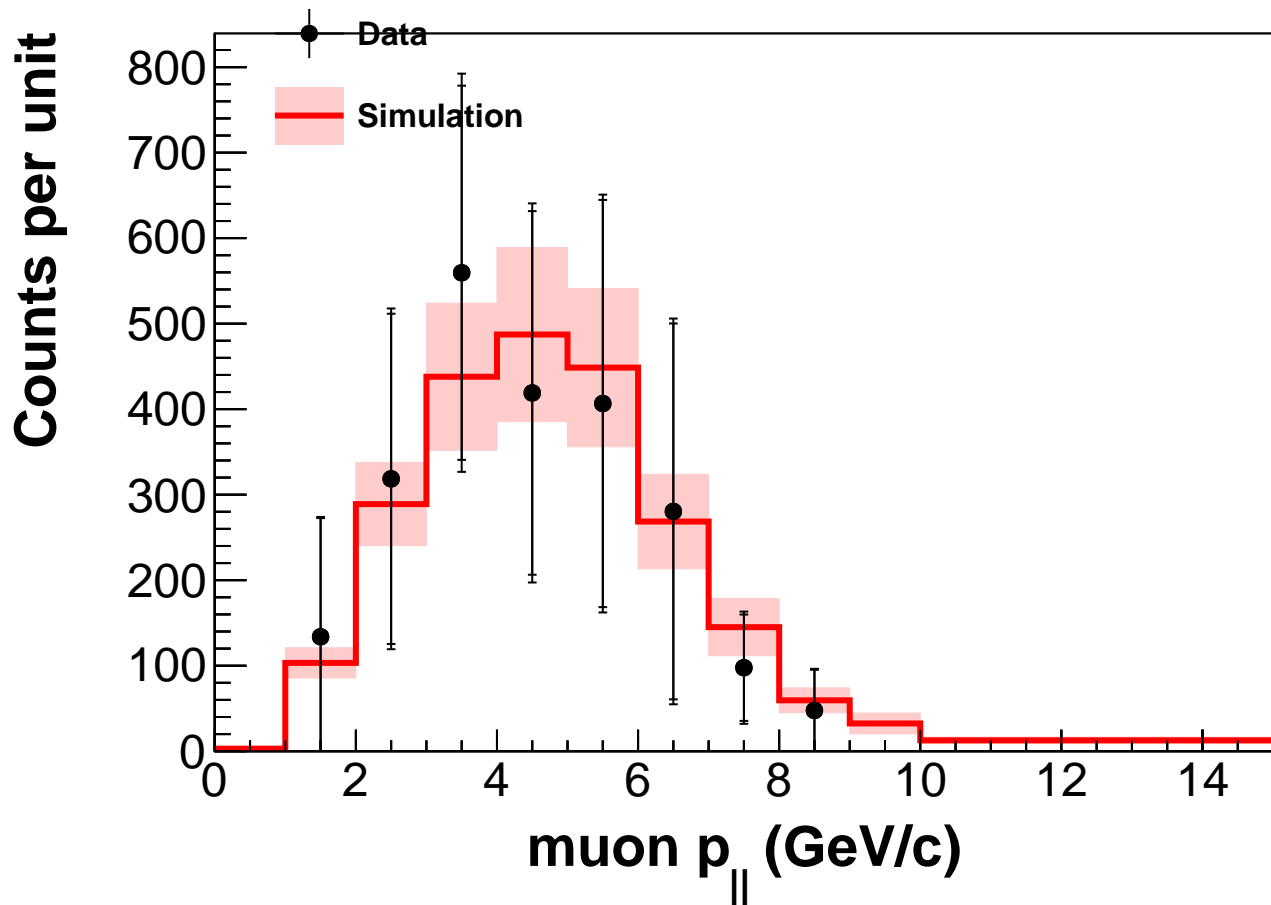
efficiency: selected and true



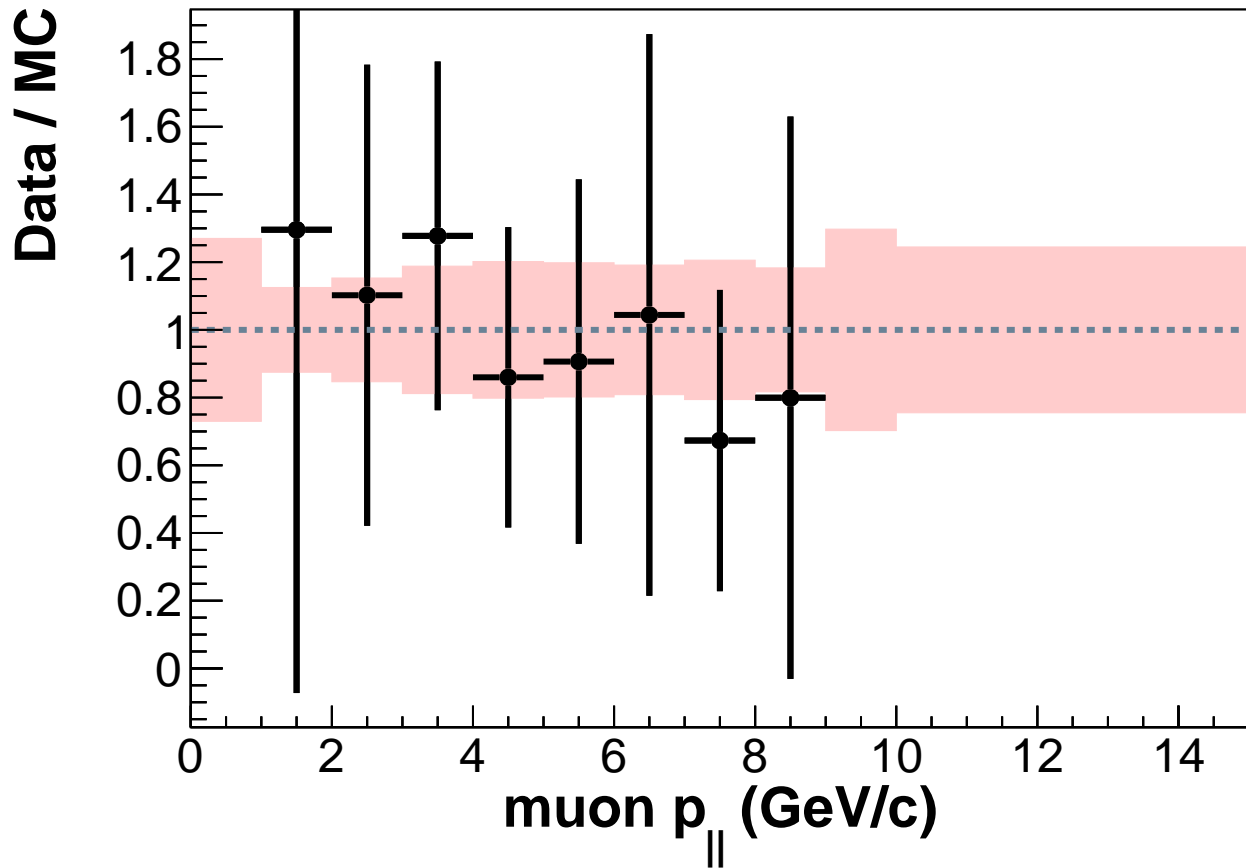
efficiency: selected and true



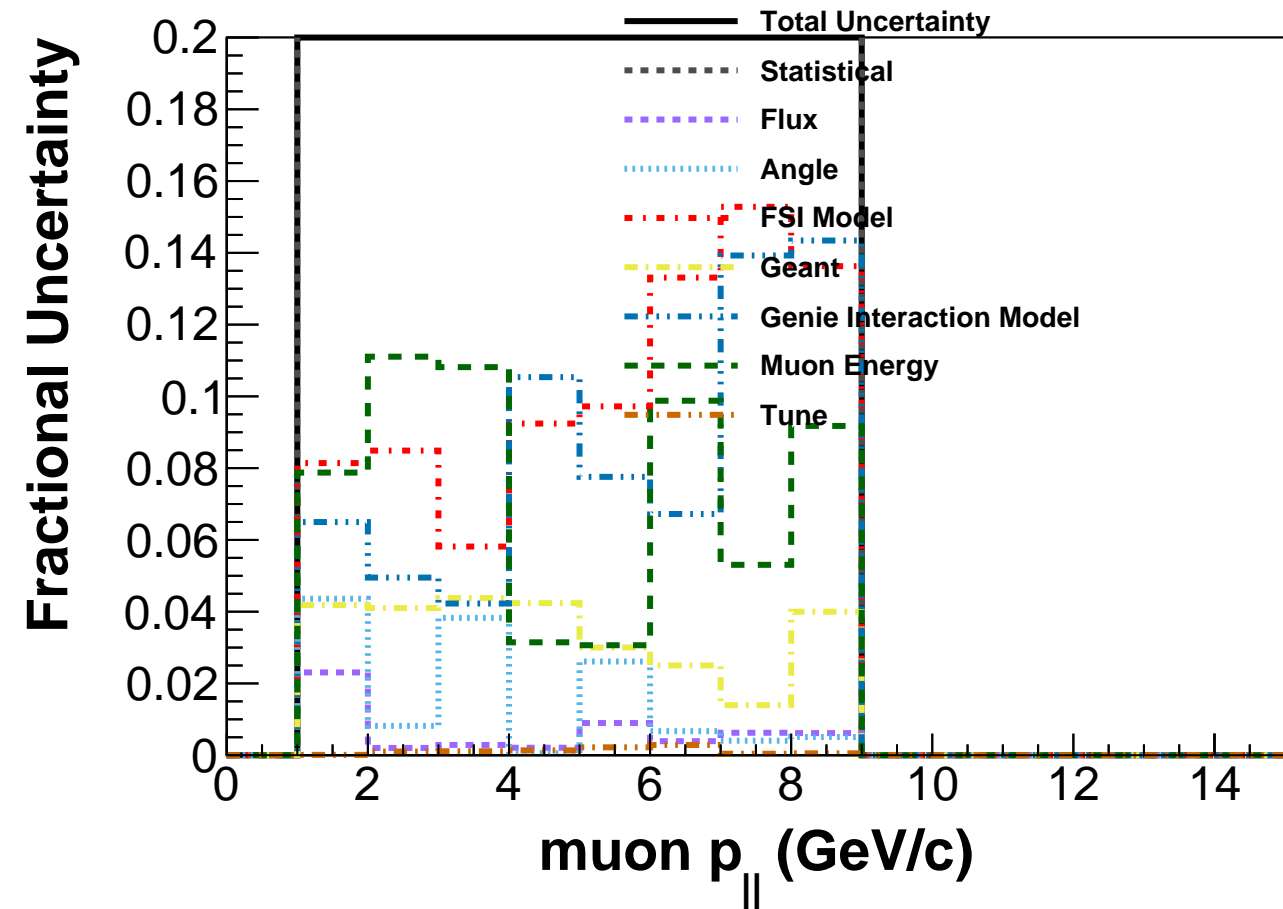
effcorr data vs truth



effcorr data vs truth

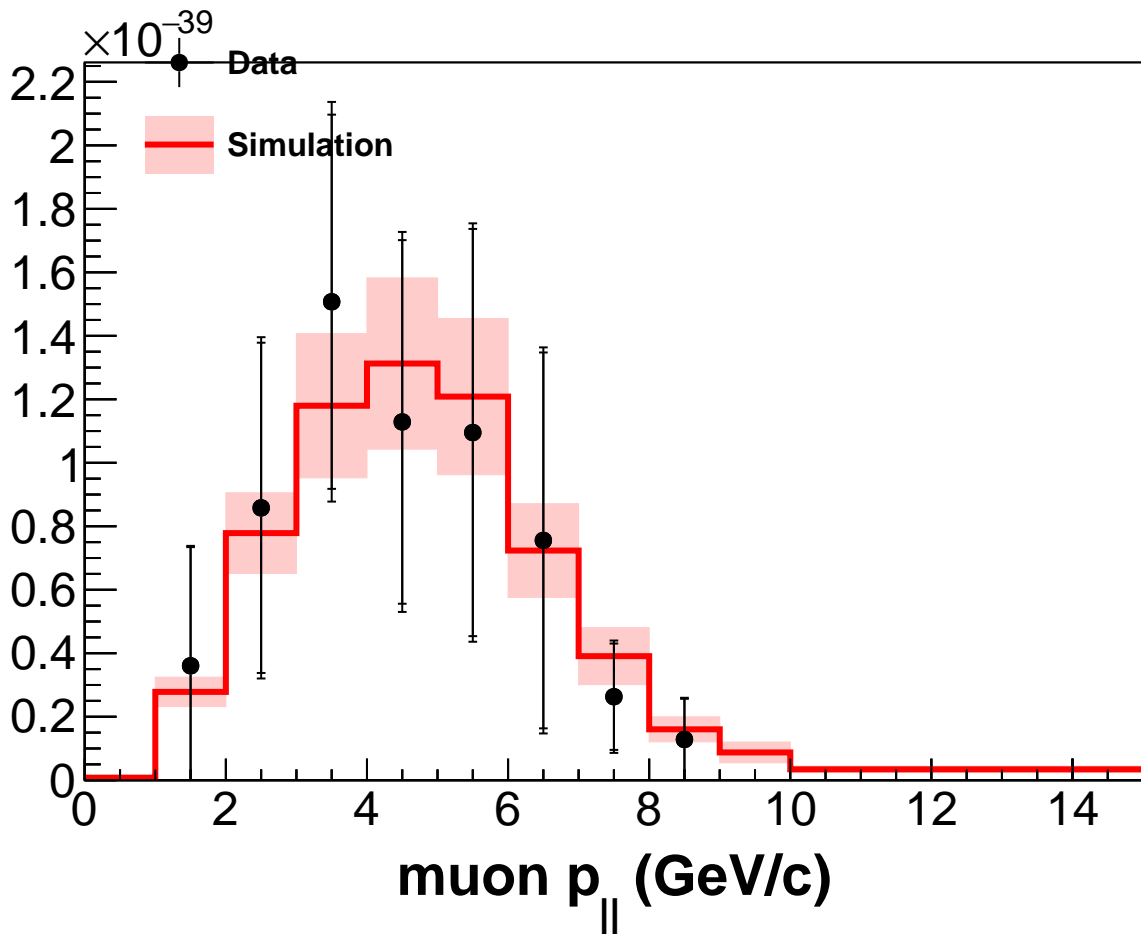


Efficiency Corrected Data Systematics



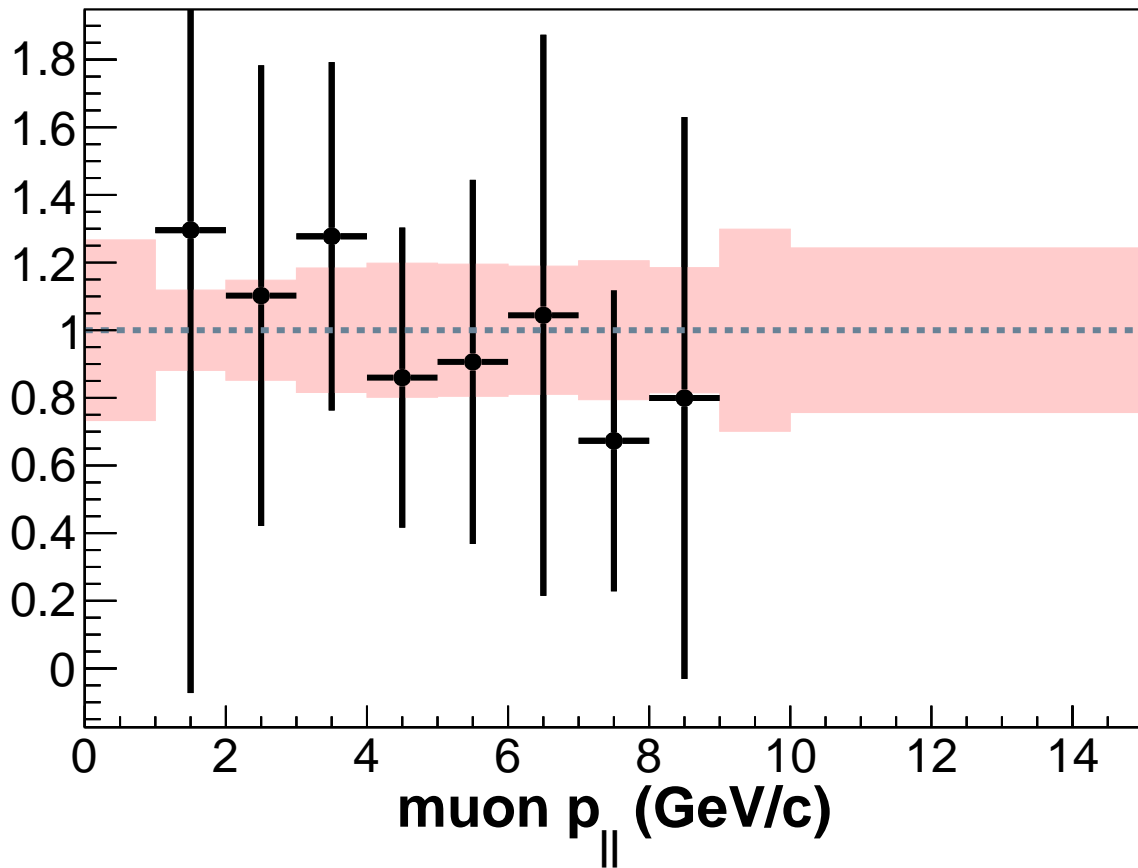
σ

Counts per unit



sigma

Data / MC



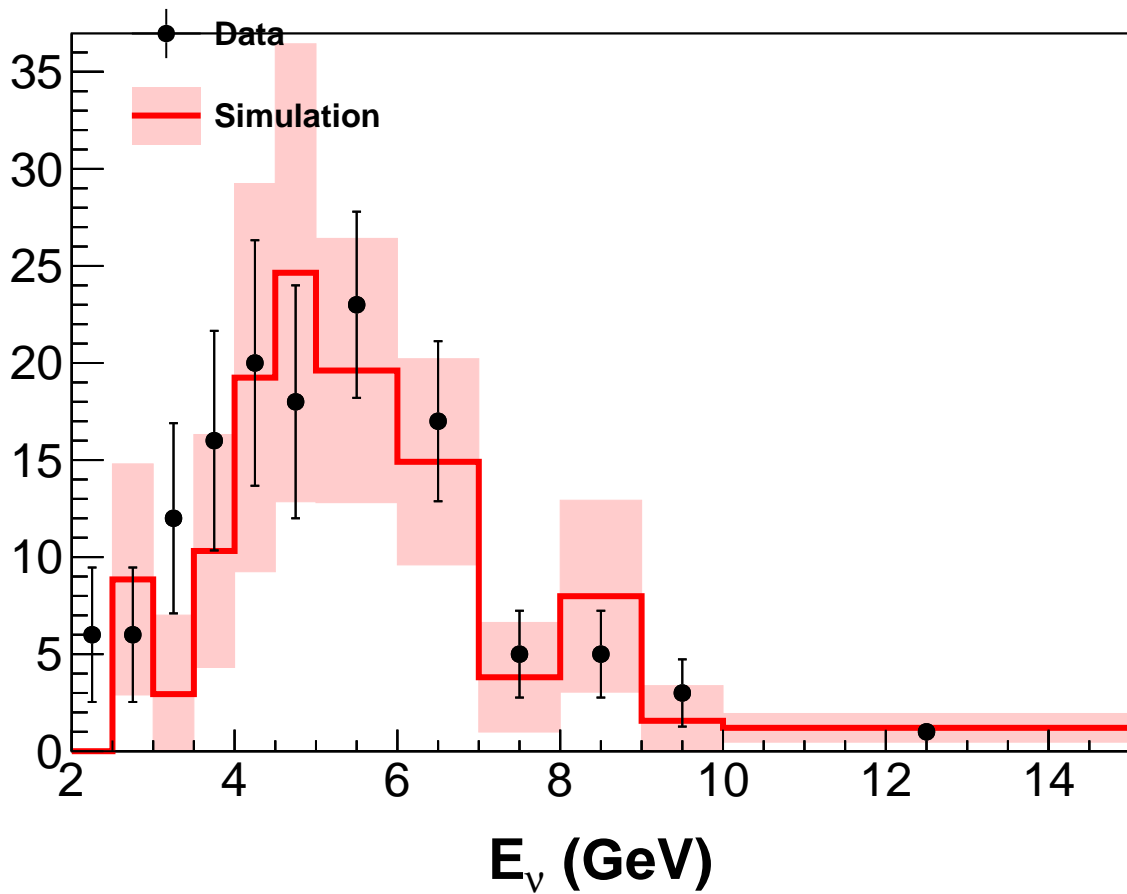
Cross Section Systematics



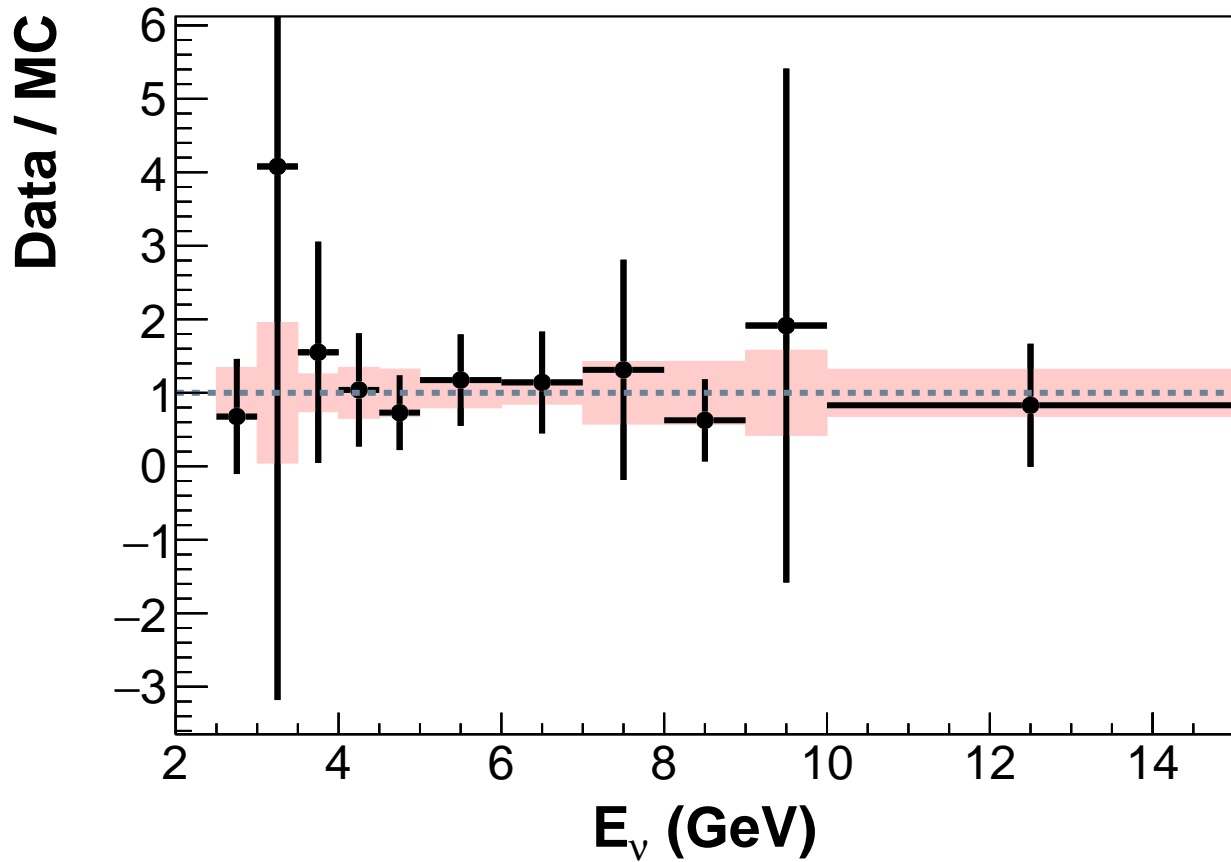
muon p_{\perp} (GeV/c)

DATA_vs_MC

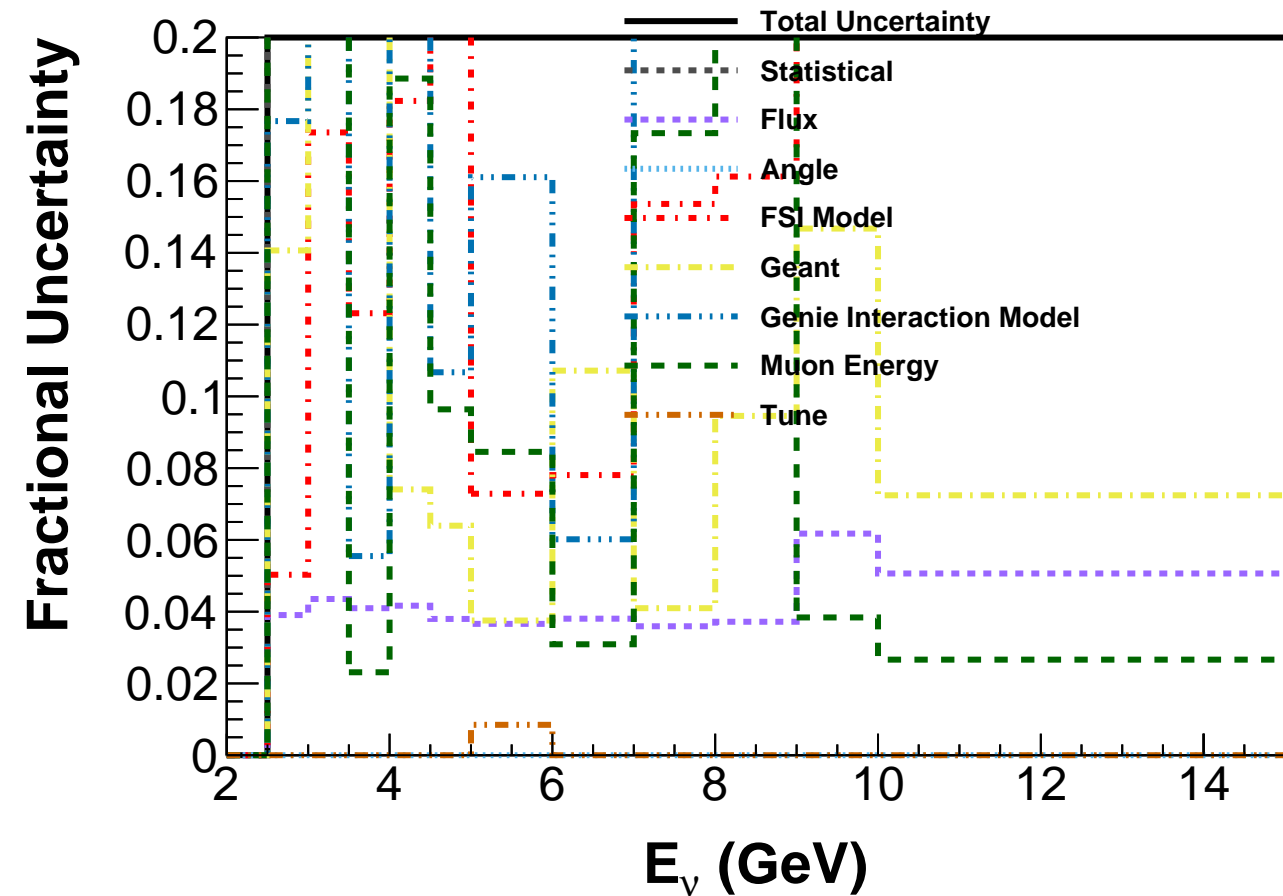
Counts per unit



DATA_vs_MC

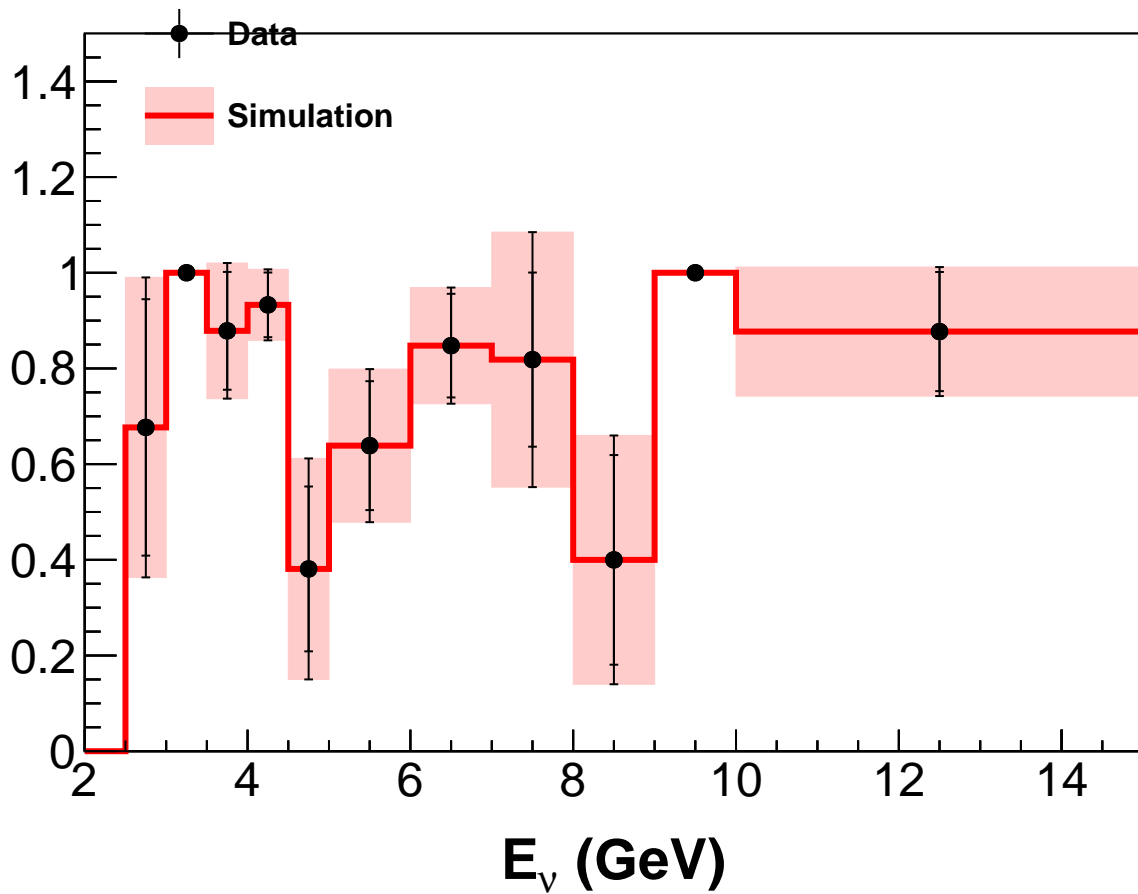


Raw MC Systematics

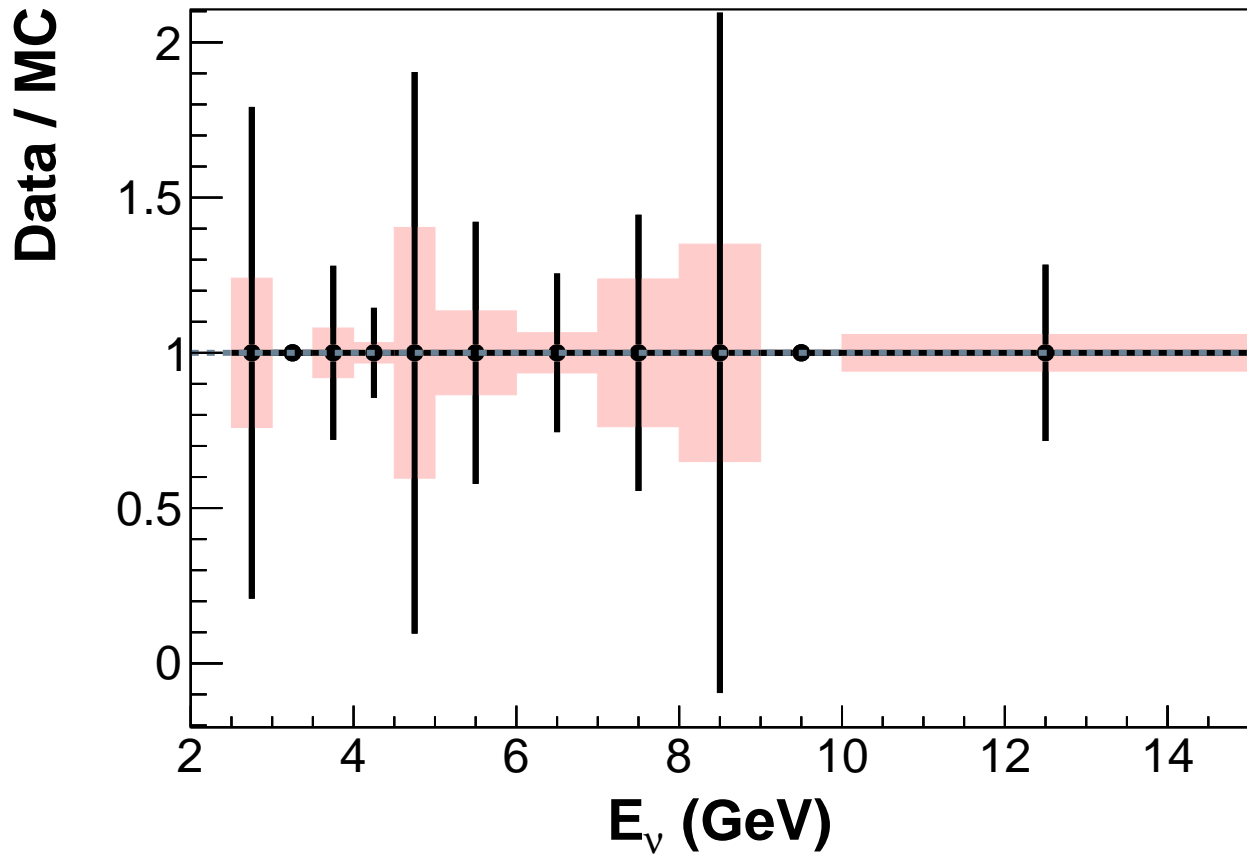


Signal Fraction

Counts per unit



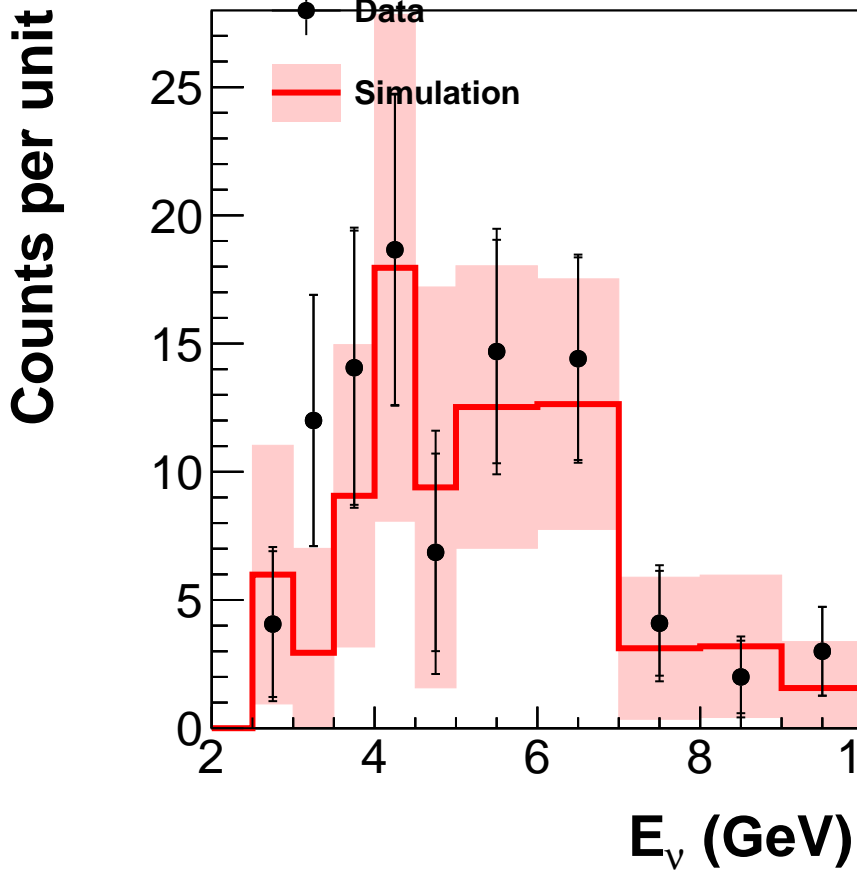
Signal Fraction



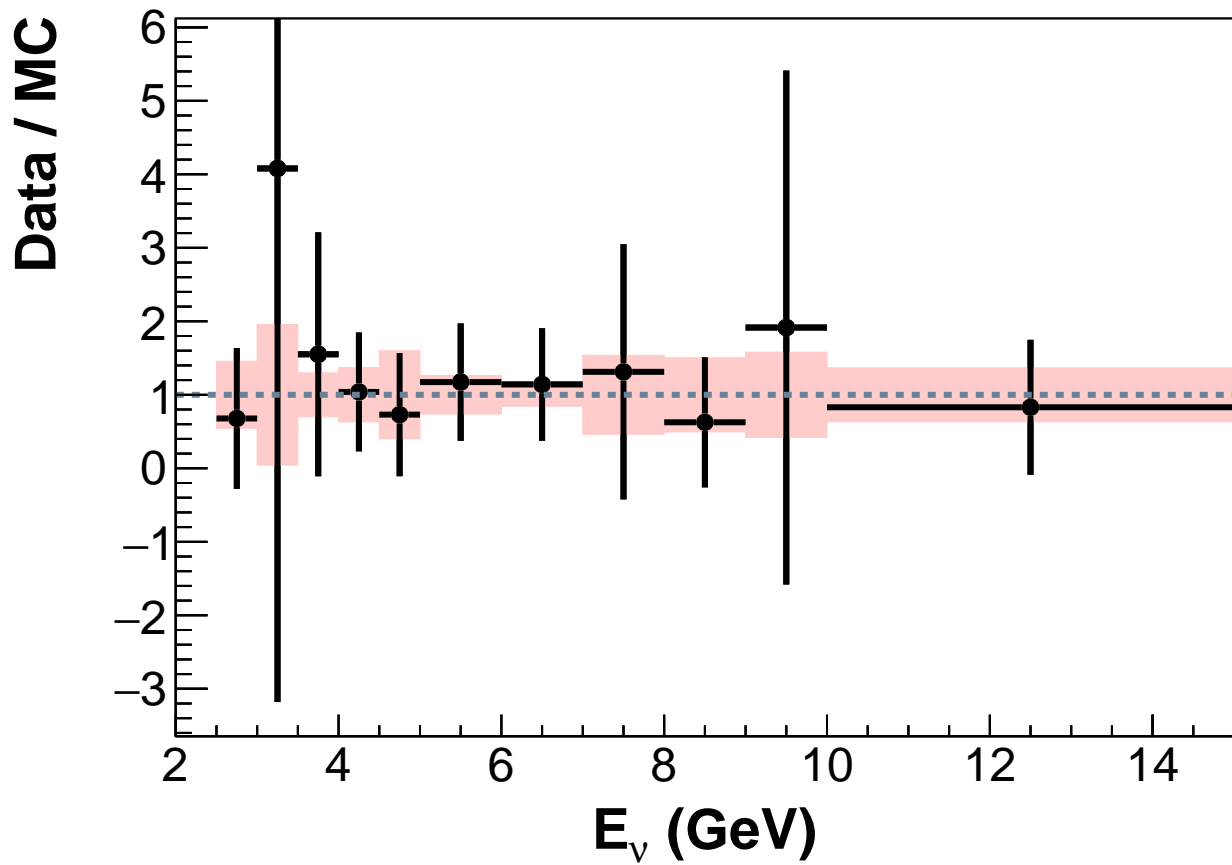
Signal Fraction Systematics

 E_ν (GeV)

BKGsub vs. MC signal



BKGsub vs. MC signal

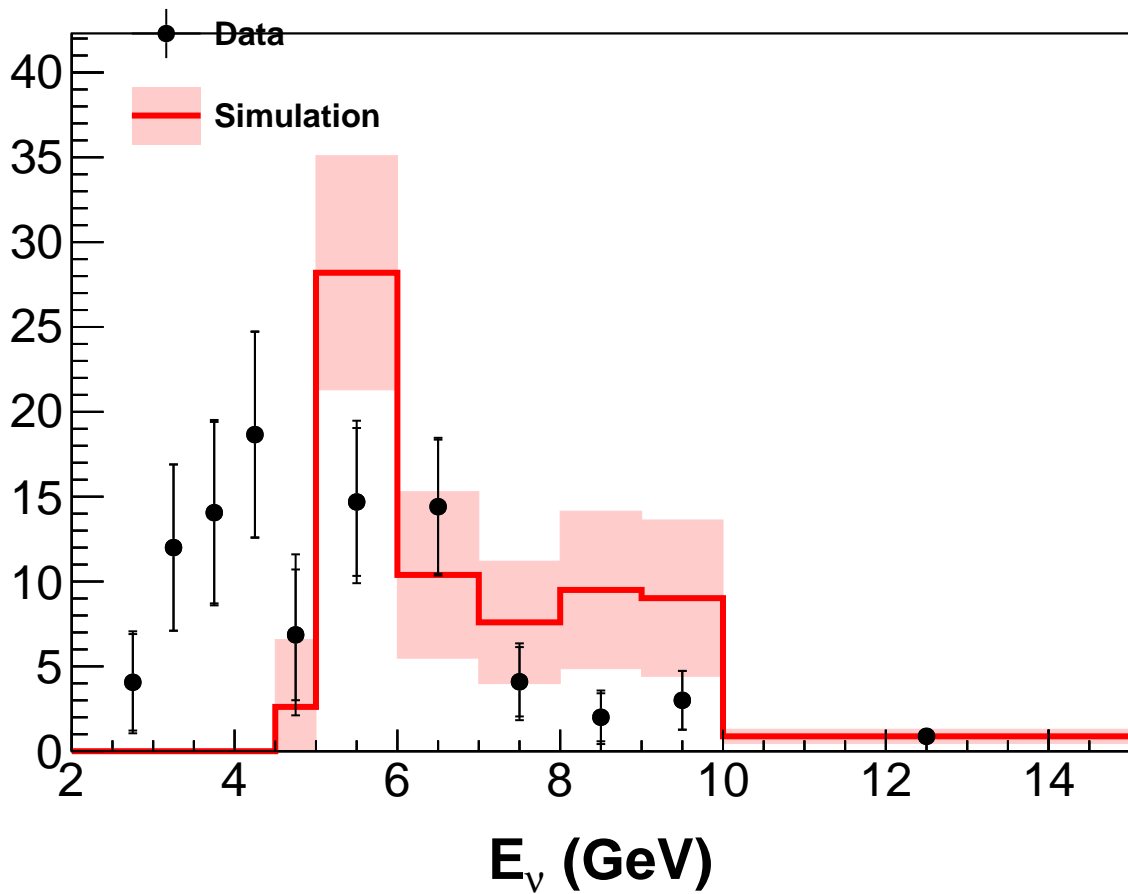


BKGsub Systematics

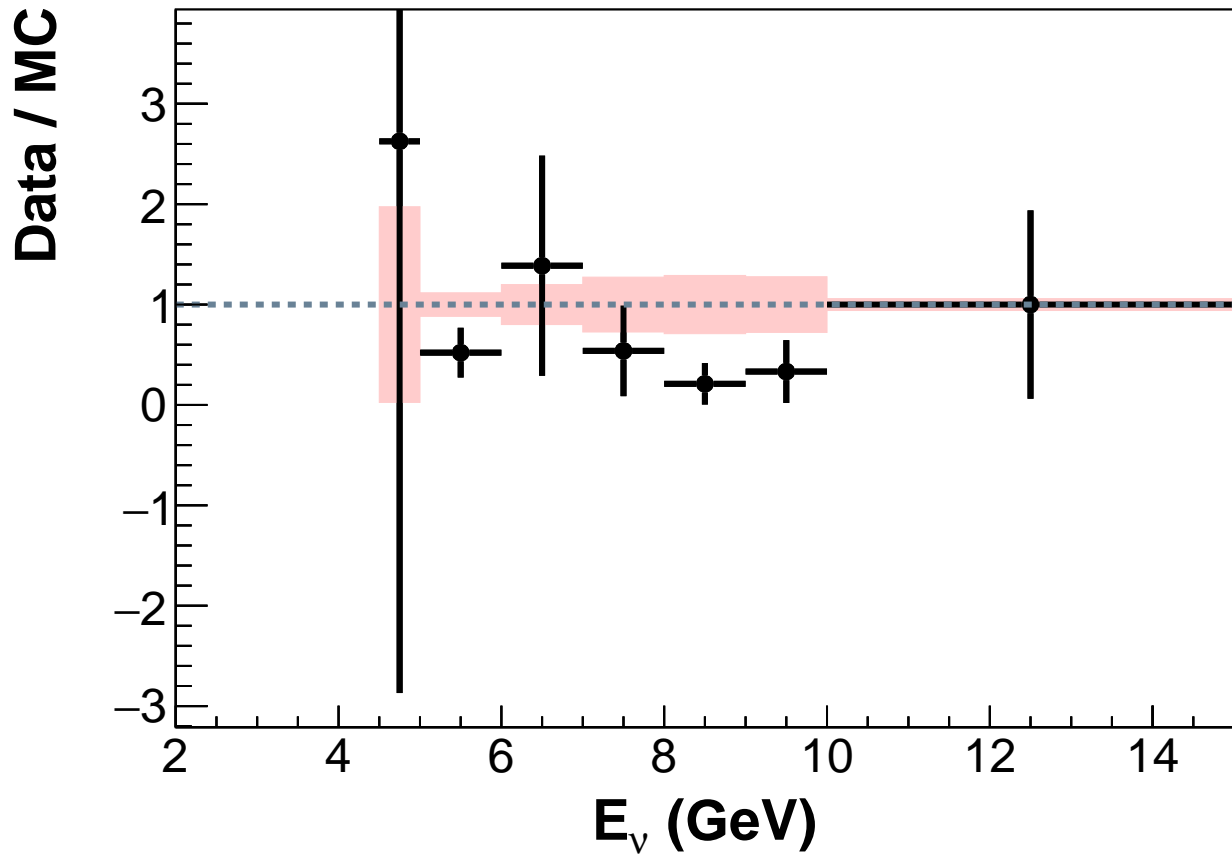


Data Before and After Unsmearing

Counts per unit

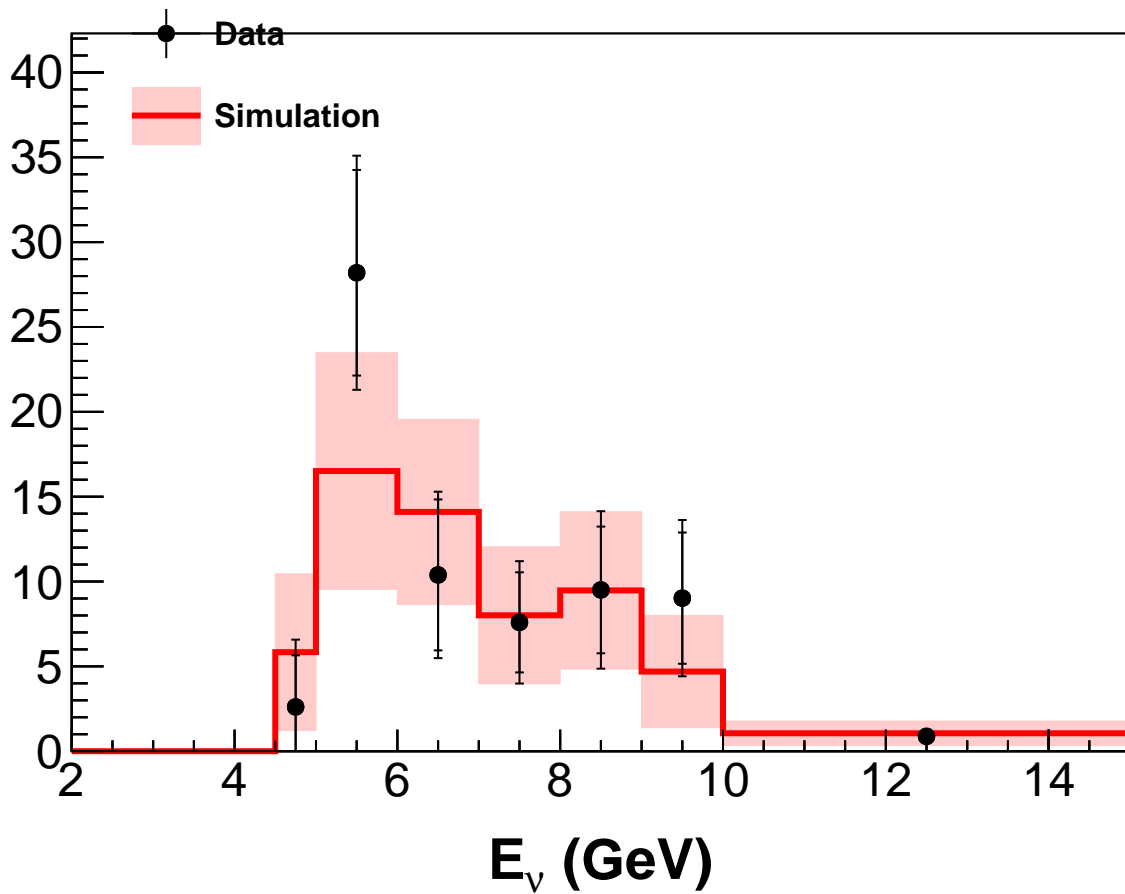


Data Before and After Unsmearing

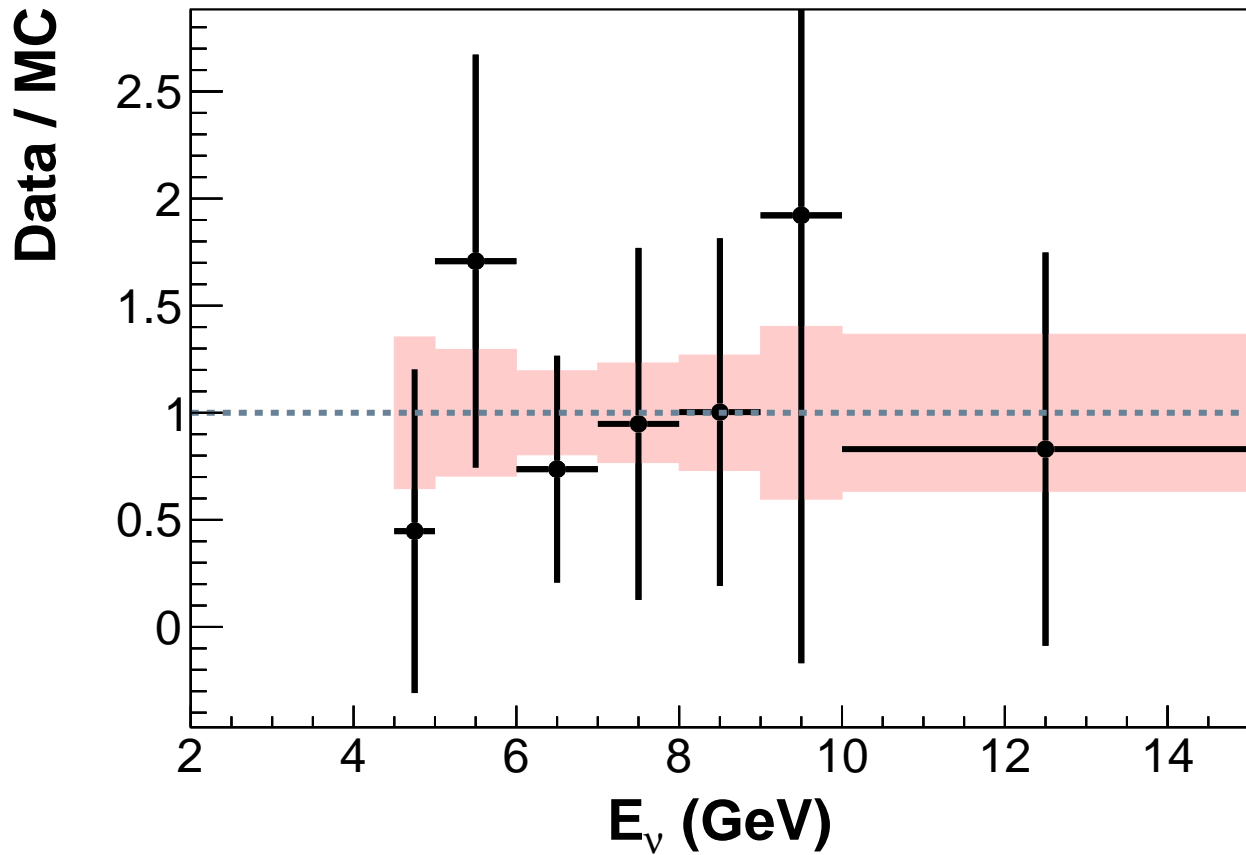


Unsmeared Data Compared to Selected MC

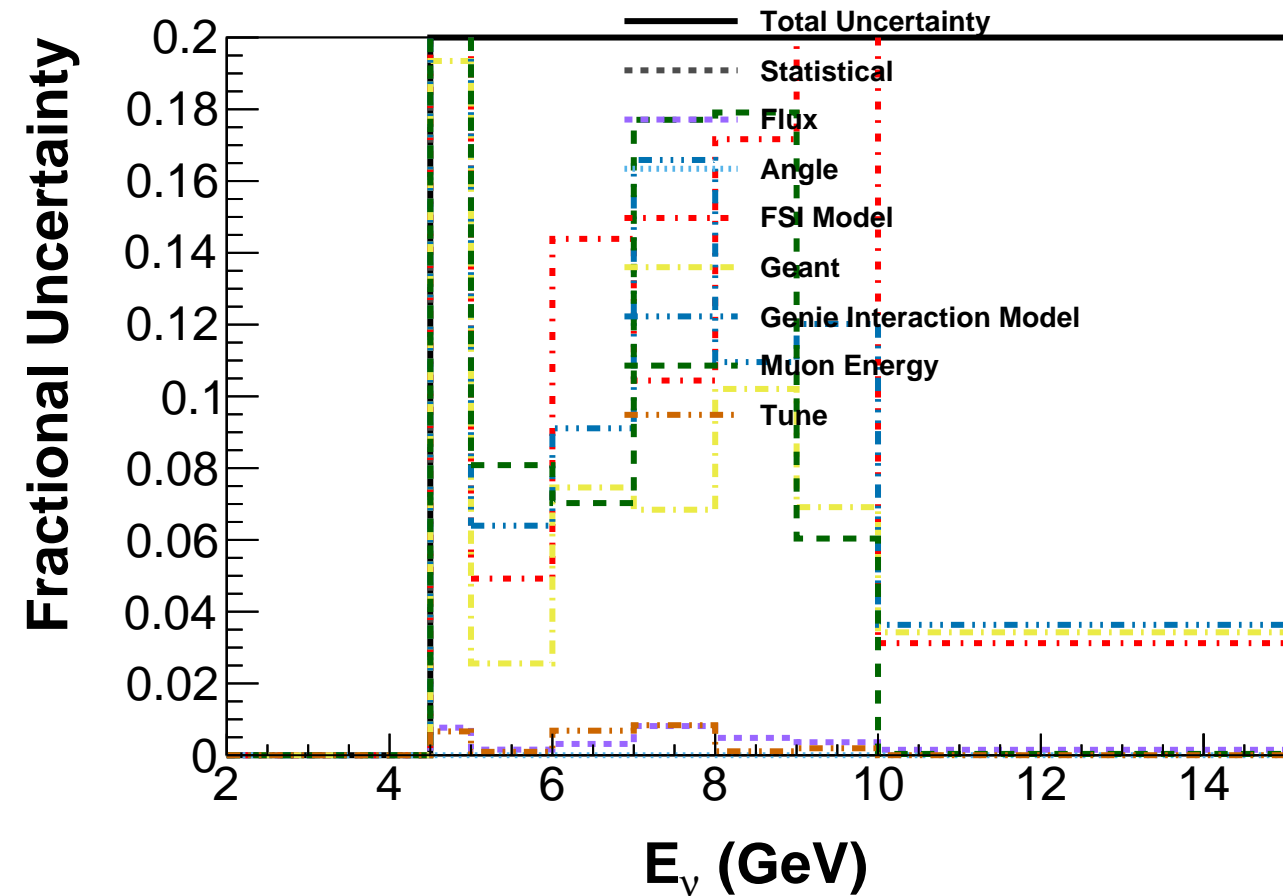
Counts per unit



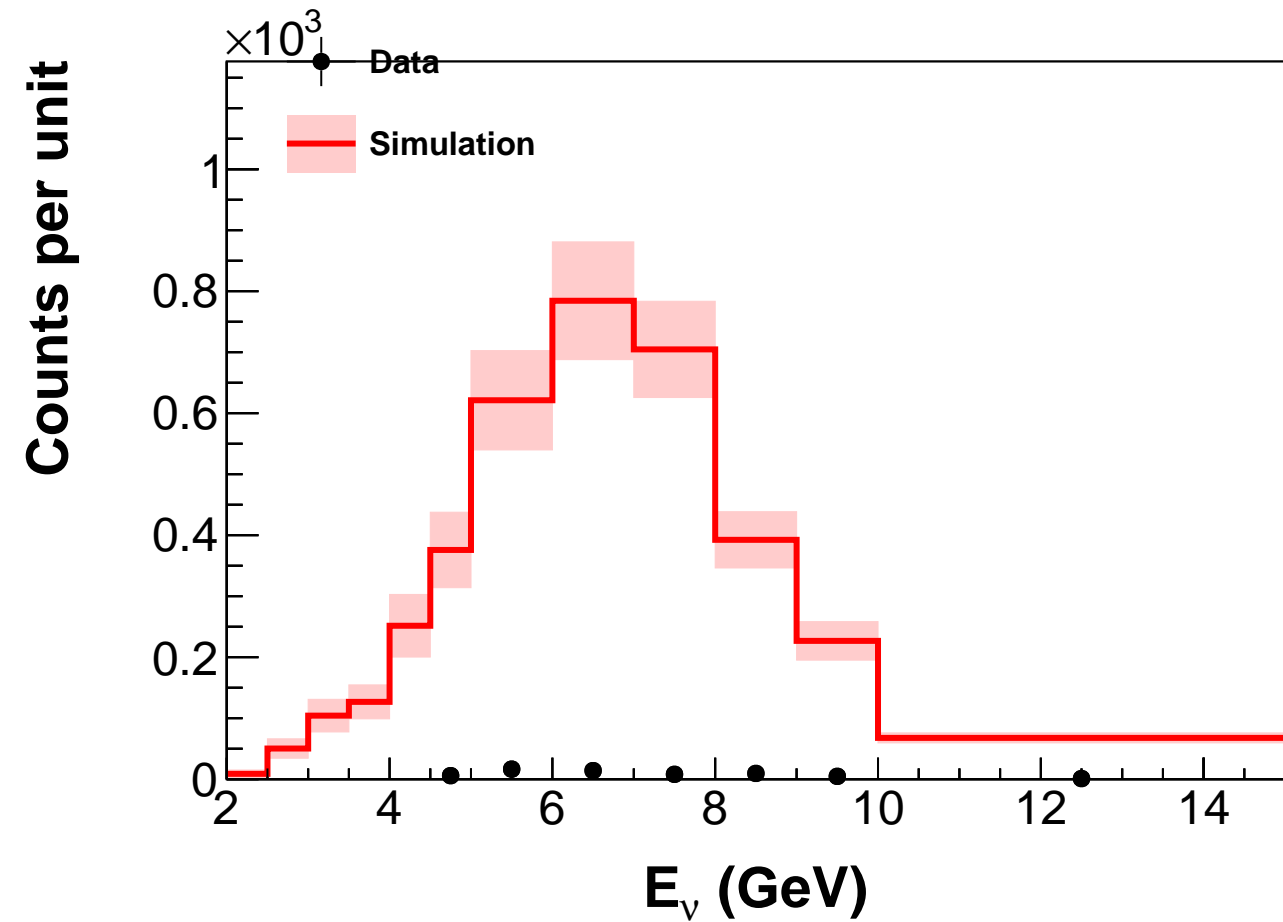
Unsmeared Data Compared to Selected MC



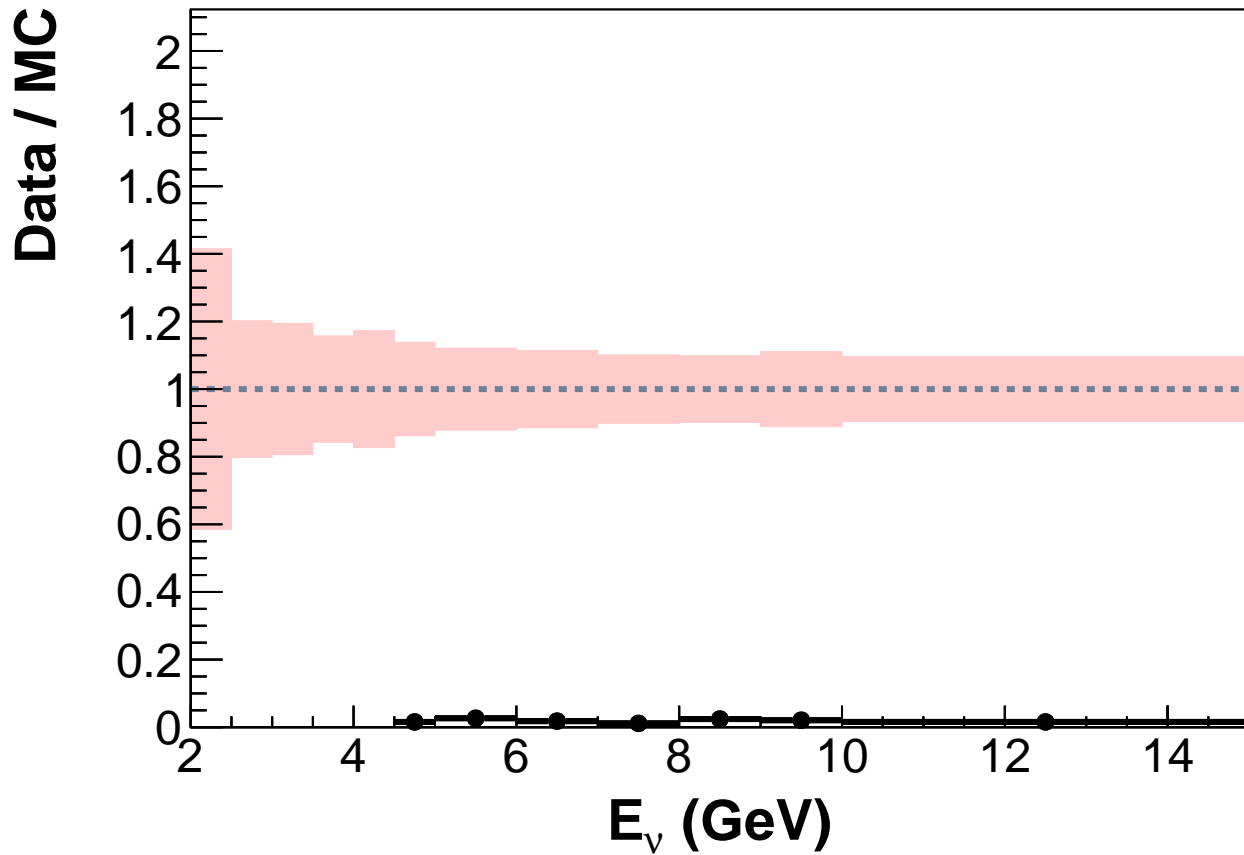
Unsmeared Data Systematics



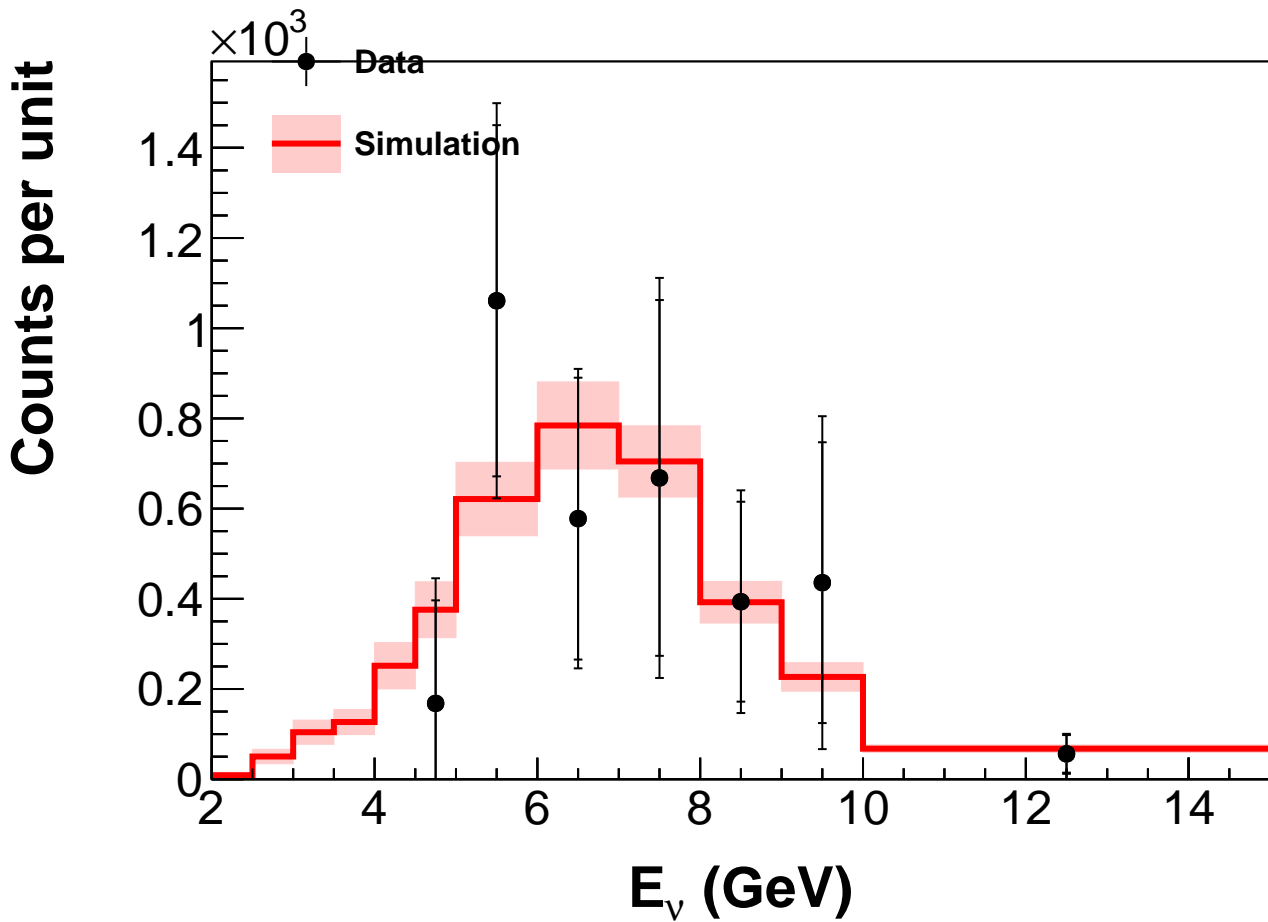
efficiency: selected and true



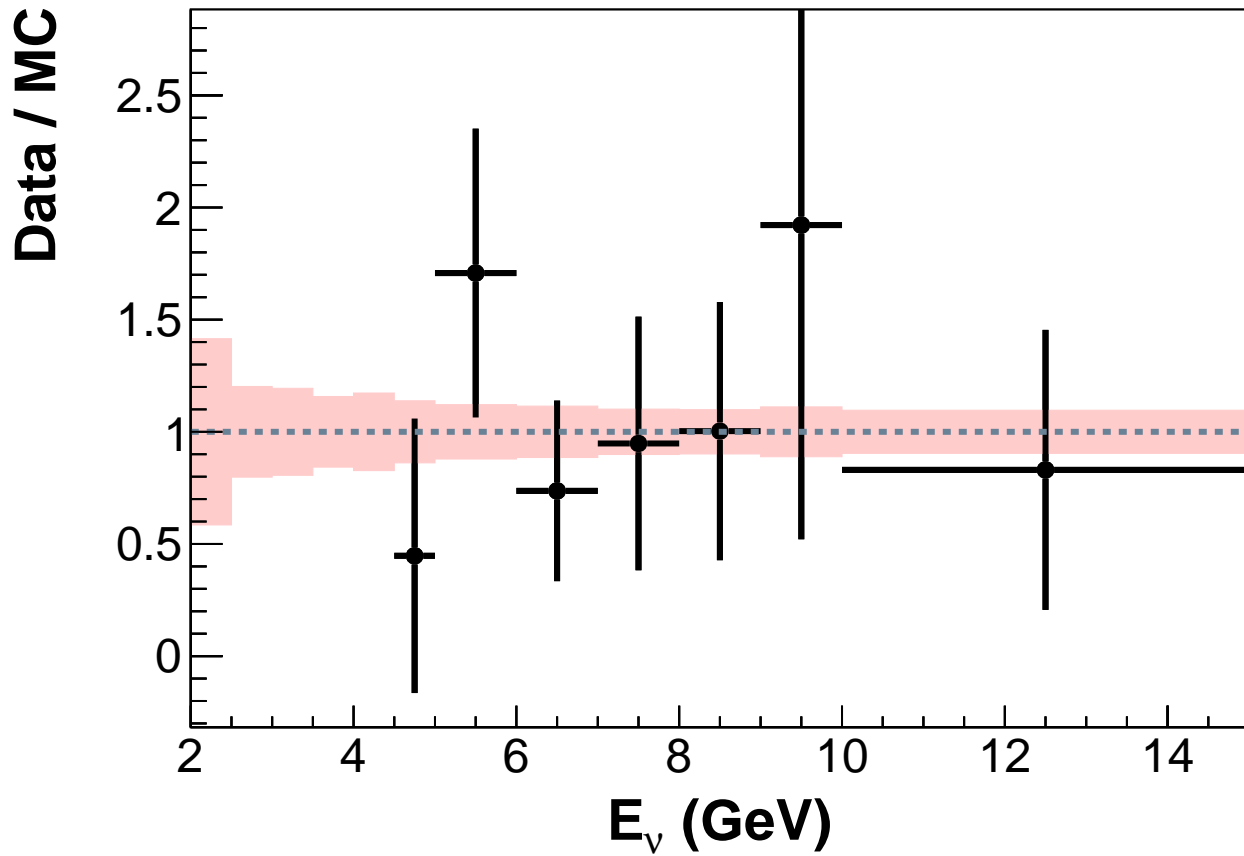
efficiency: selected and true



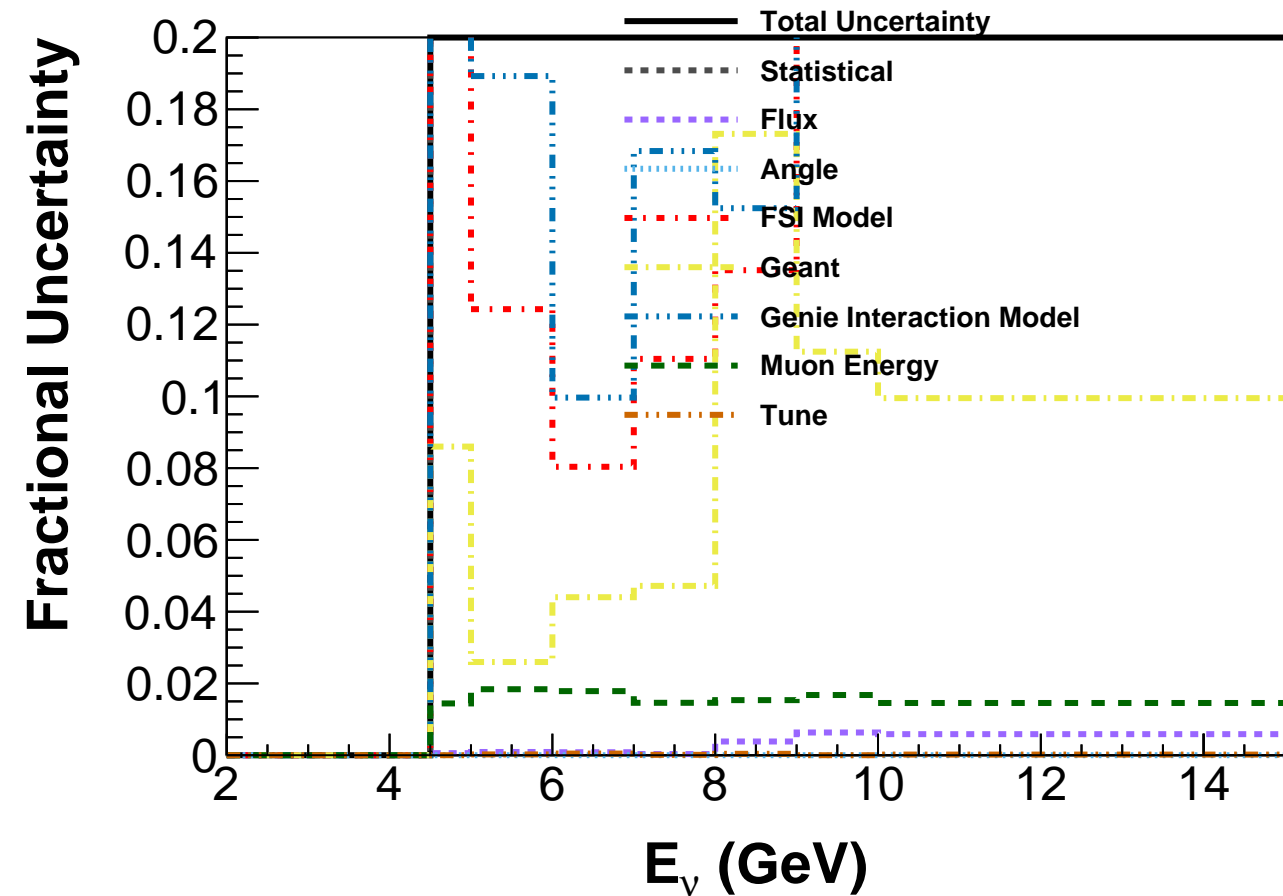
effcorr data vs truth



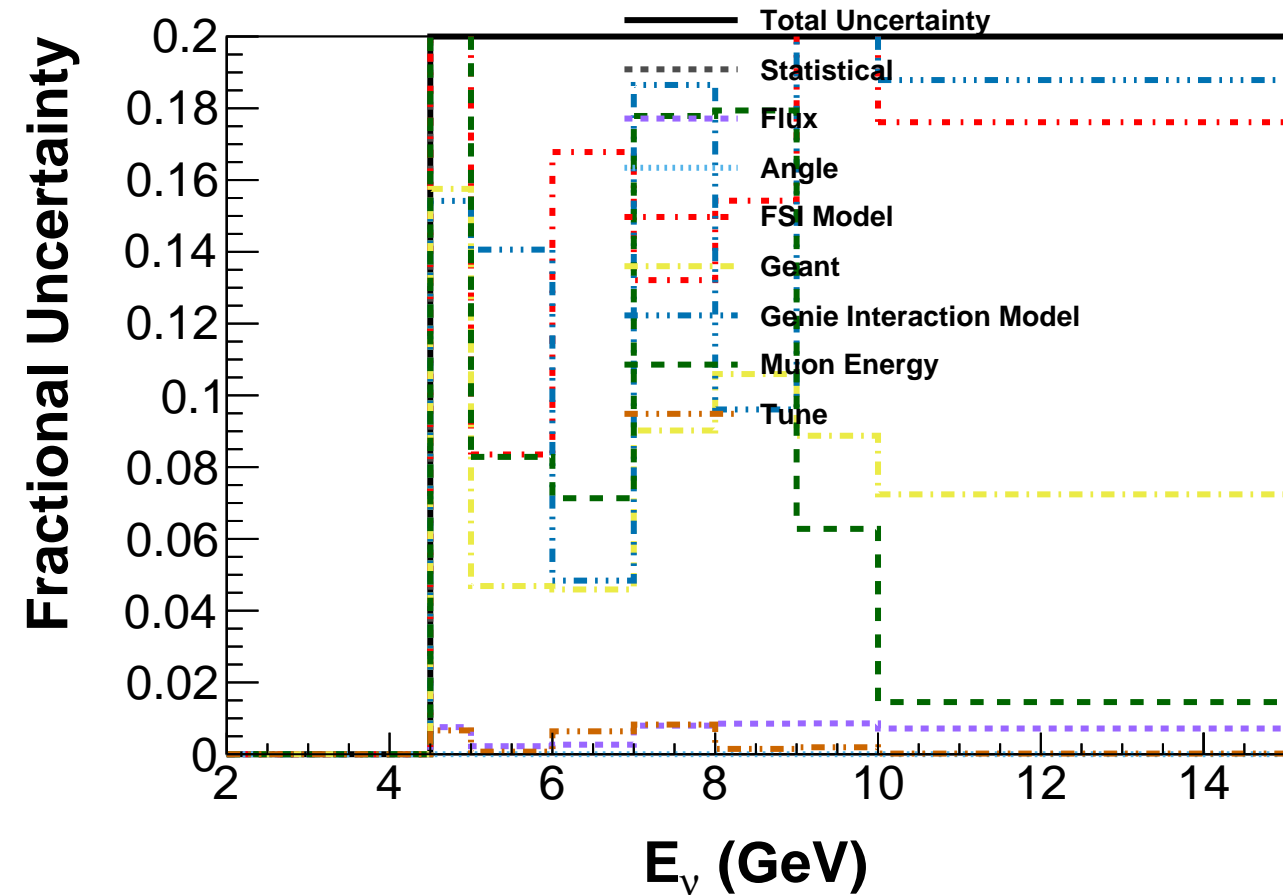
effcorr data vs truth



Efficiency Factor Systematics

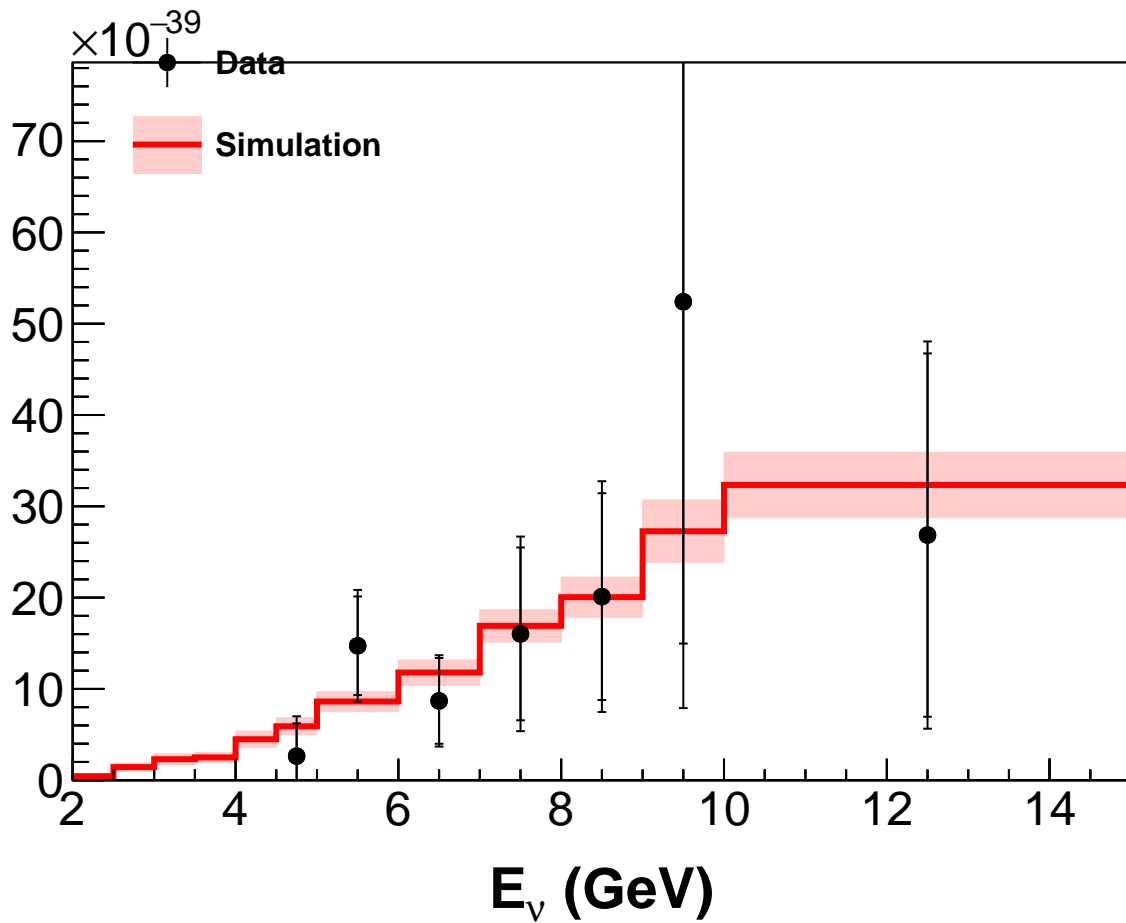


Efficiency Corrected Data Systematics

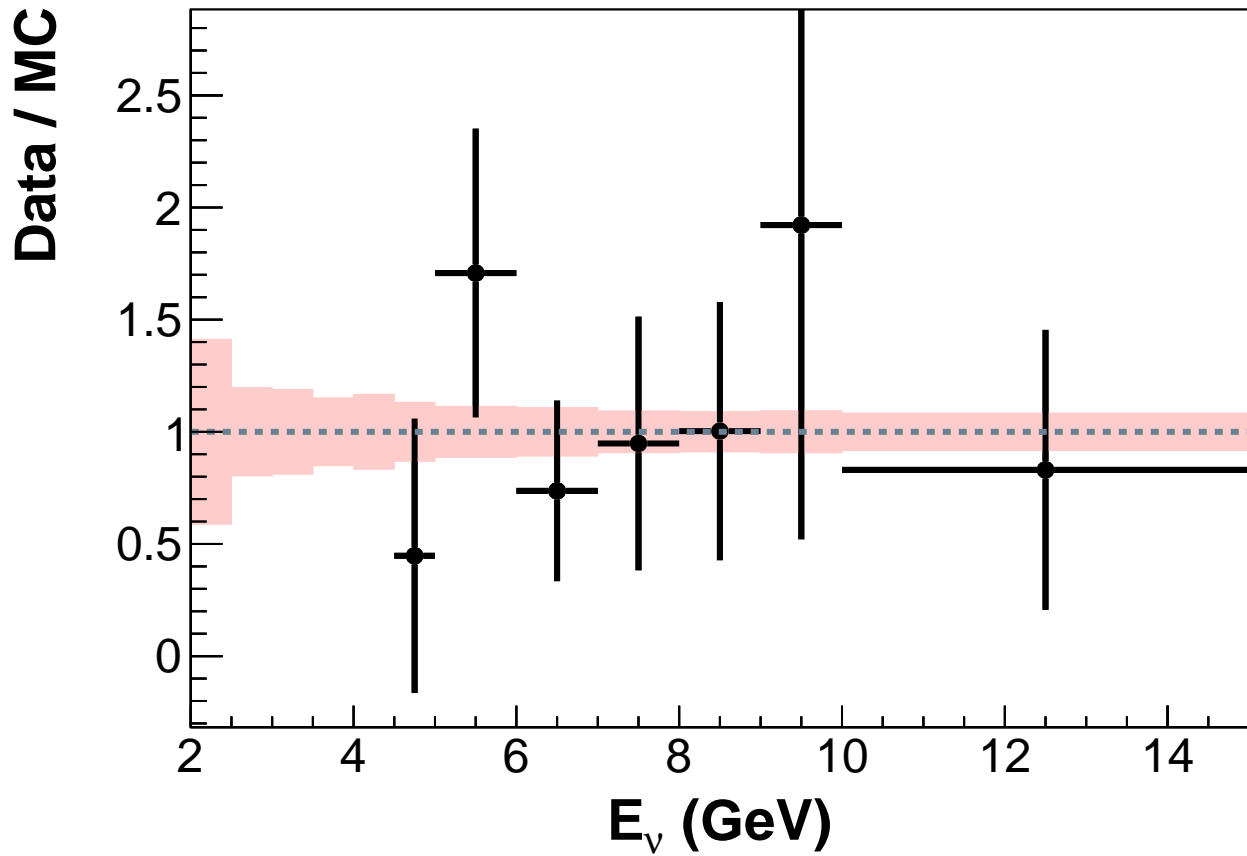


sigma

Counts per unit



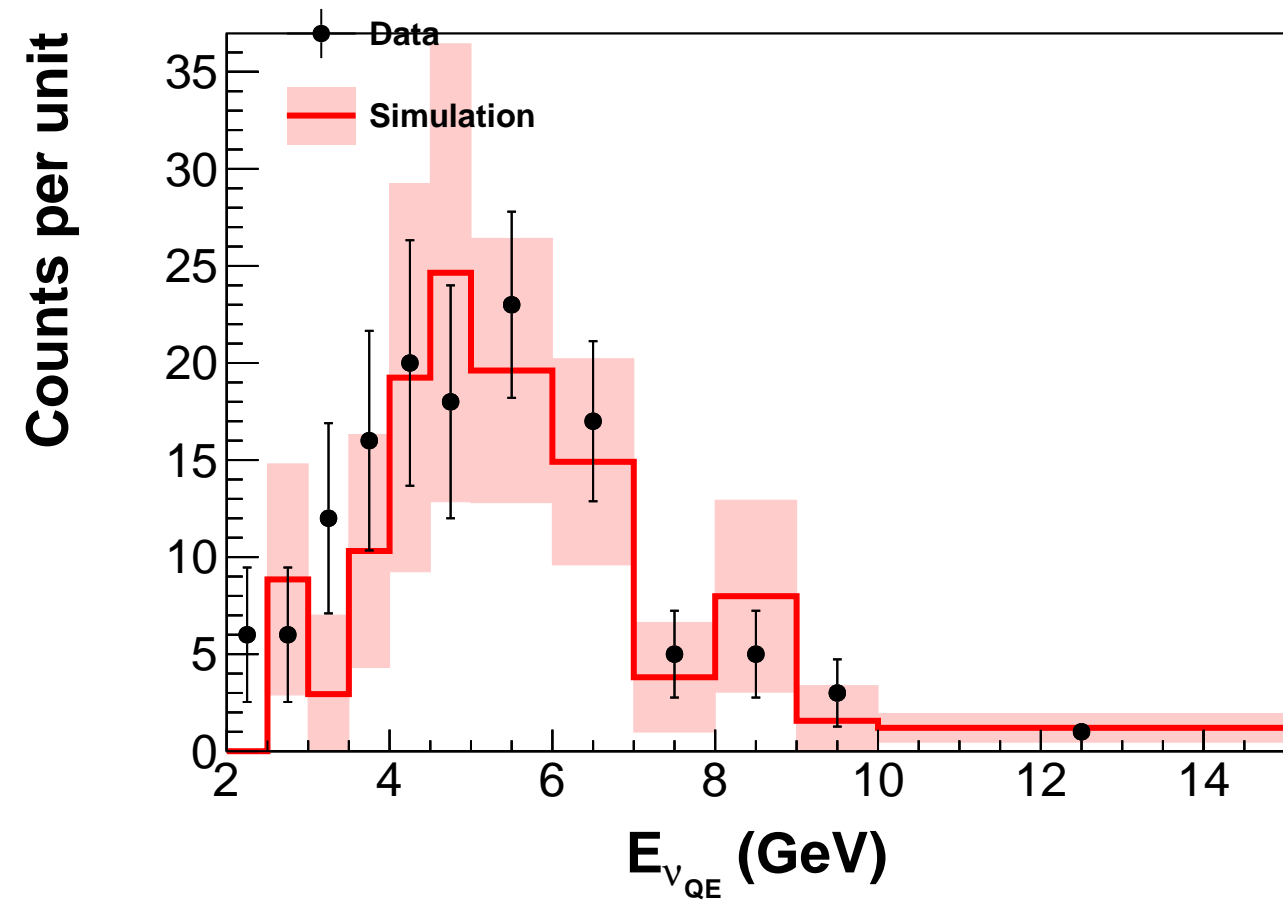
sigma



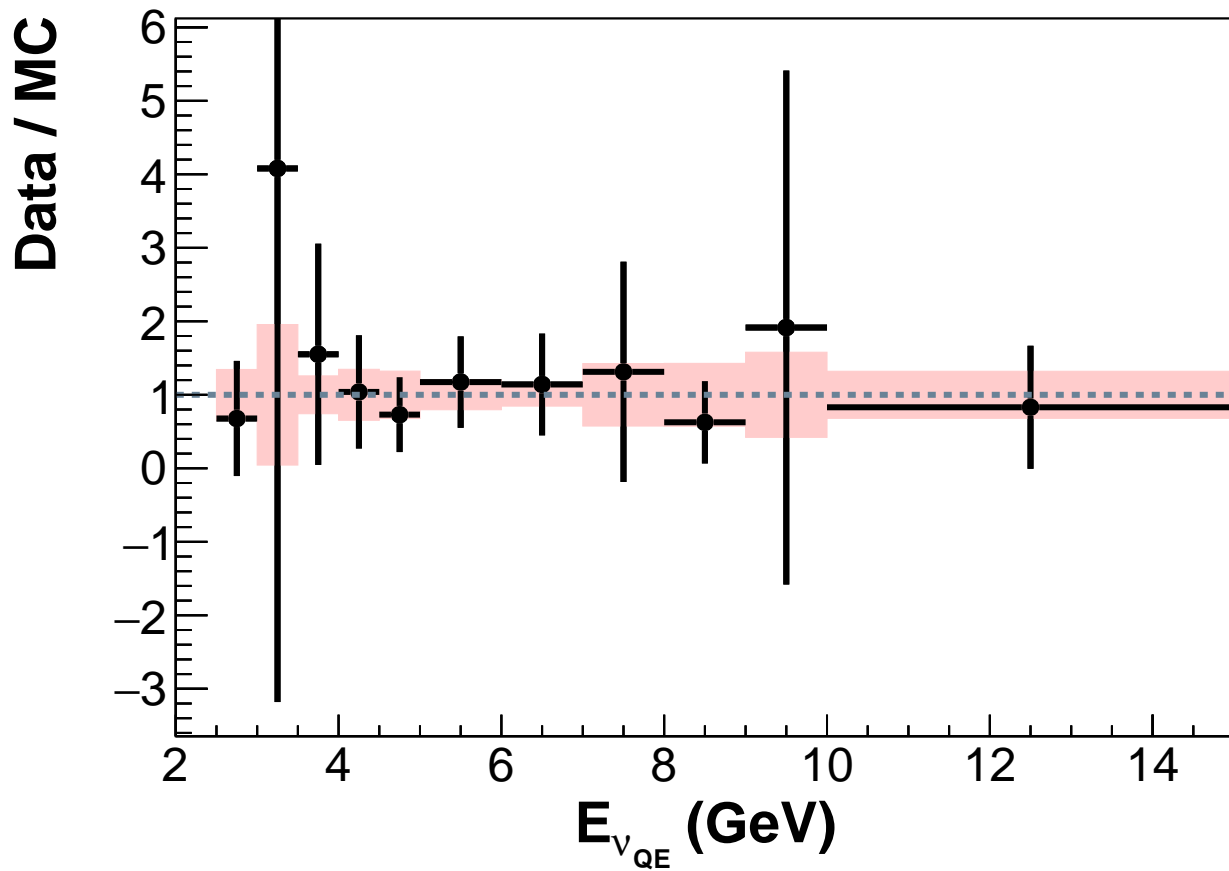
Cross Section Systematics



DATA_vs_MC

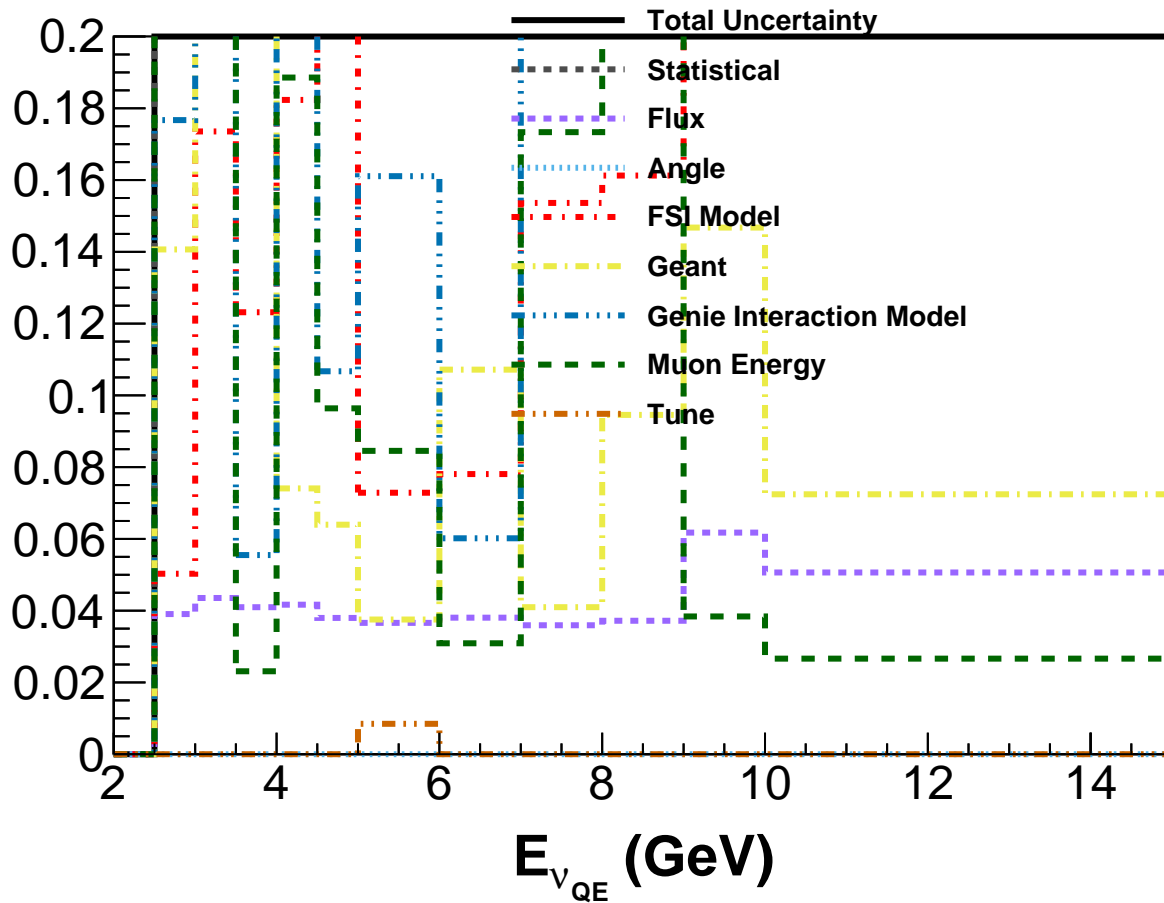


DATA_vs_MC

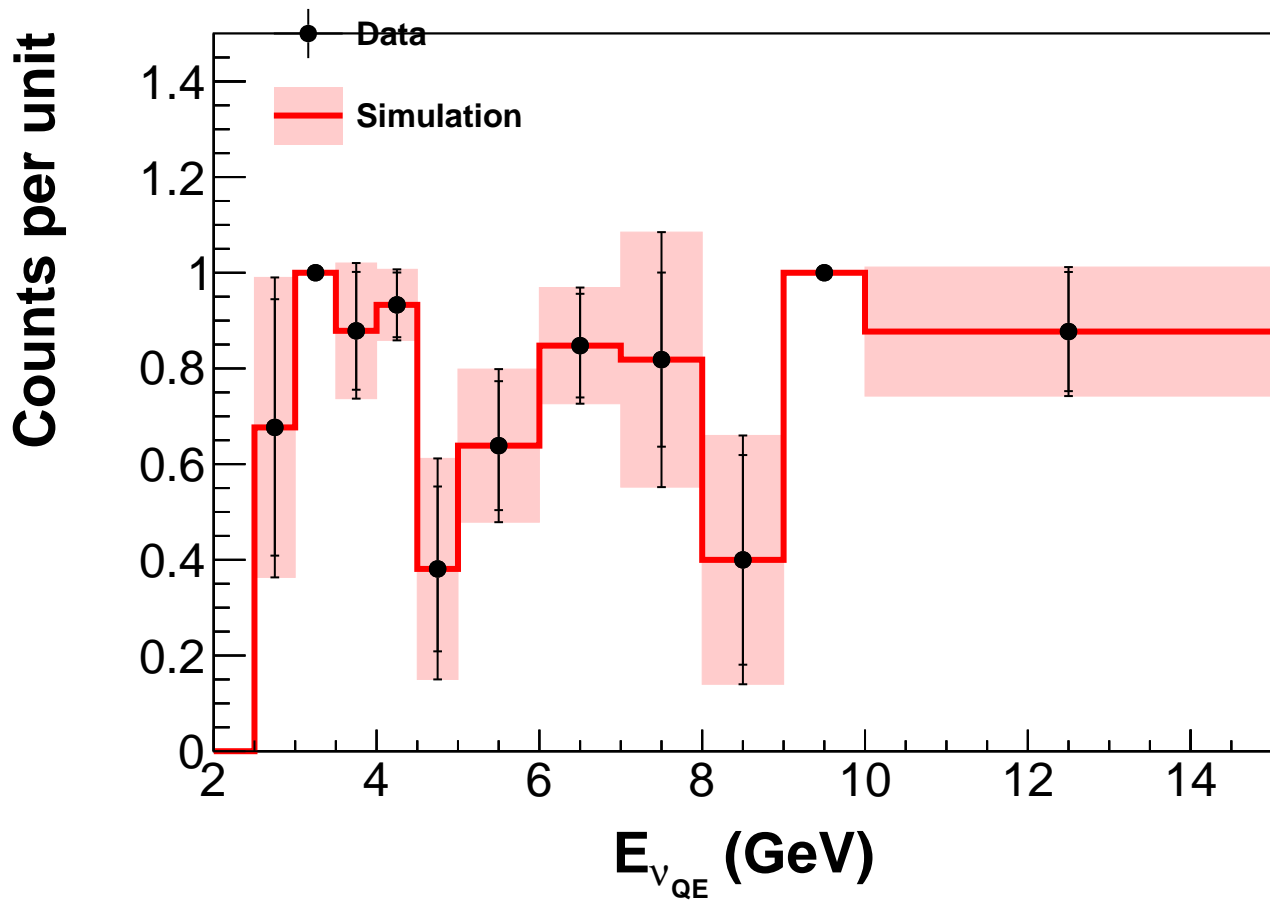


Raw MC Systematics

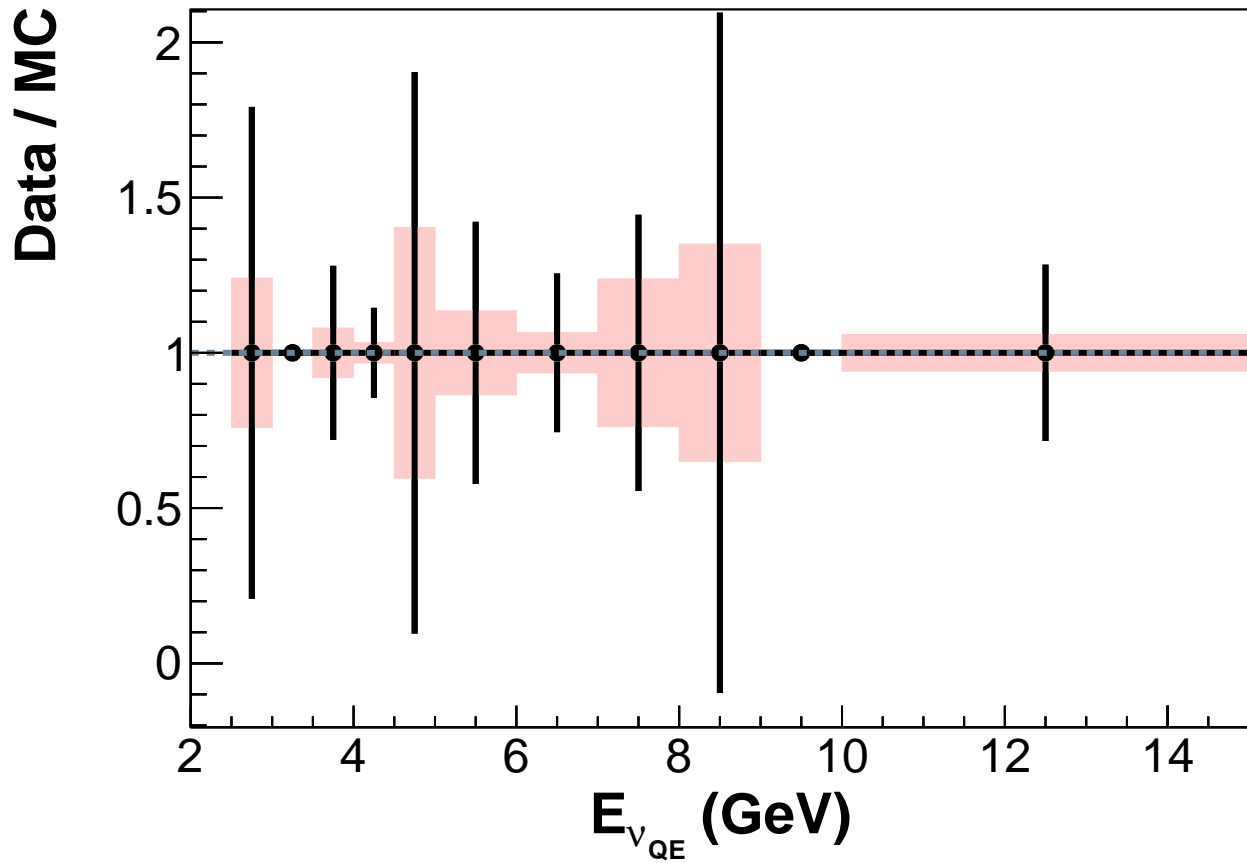
Fractional Uncertainty



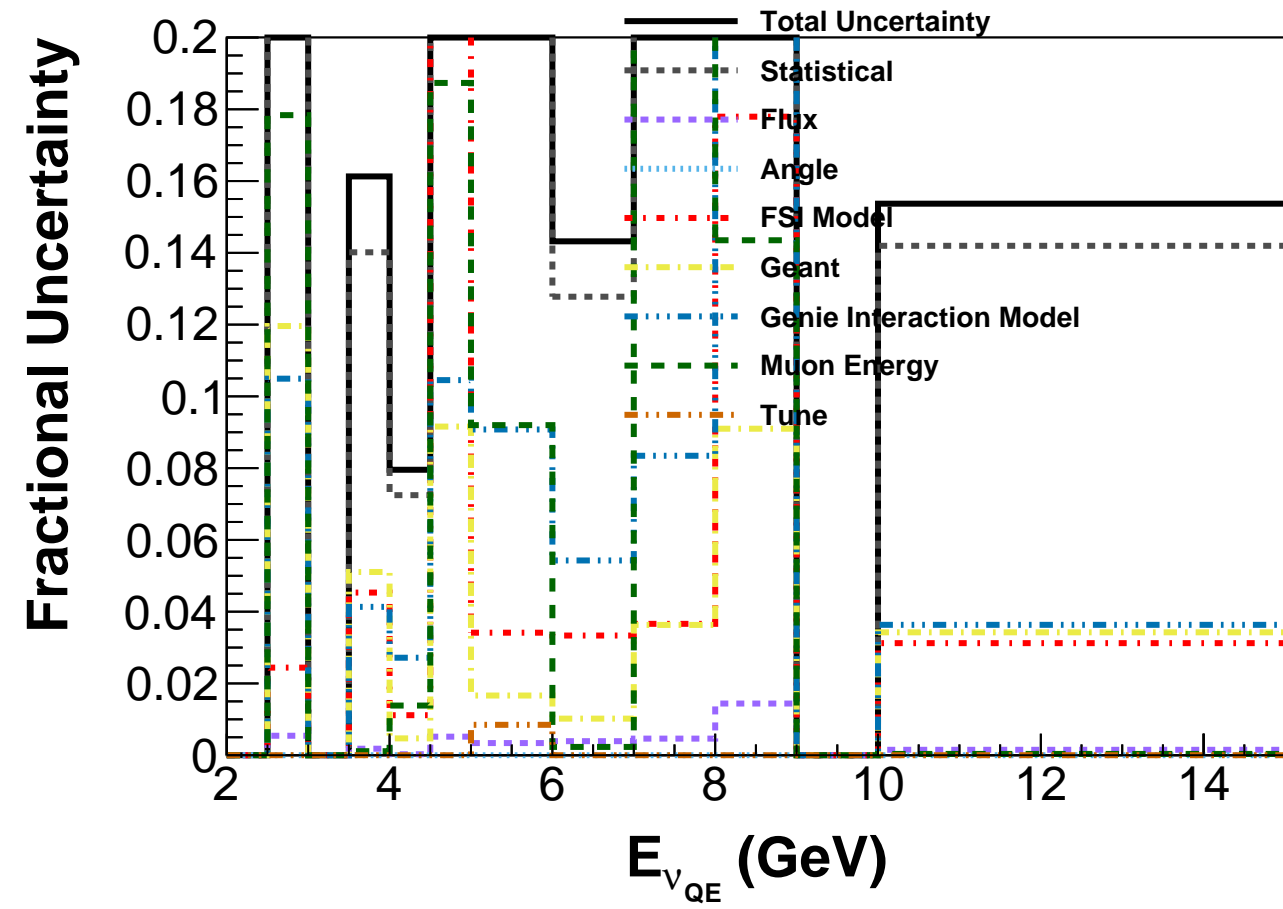
Signal Fraction



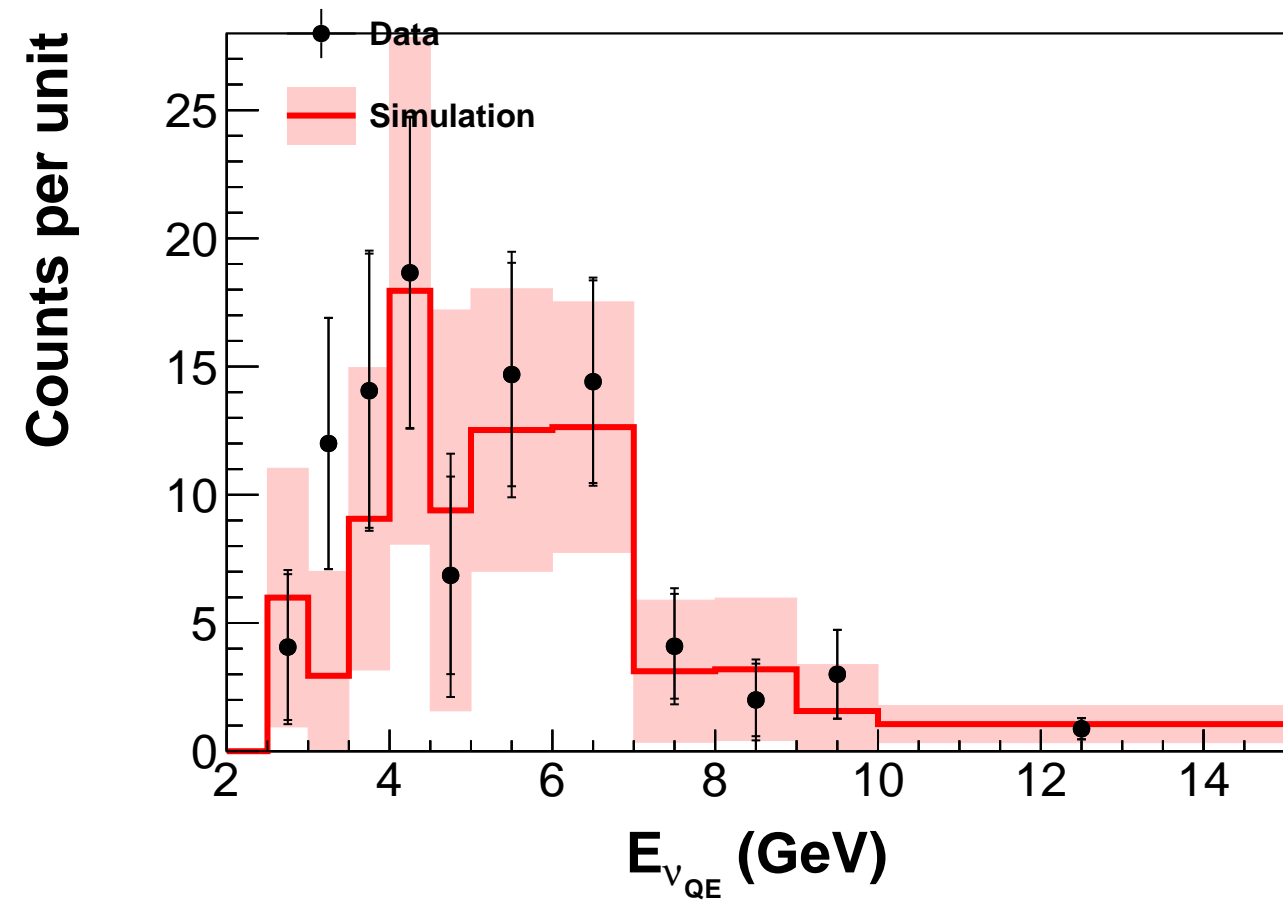
Signal Fraction



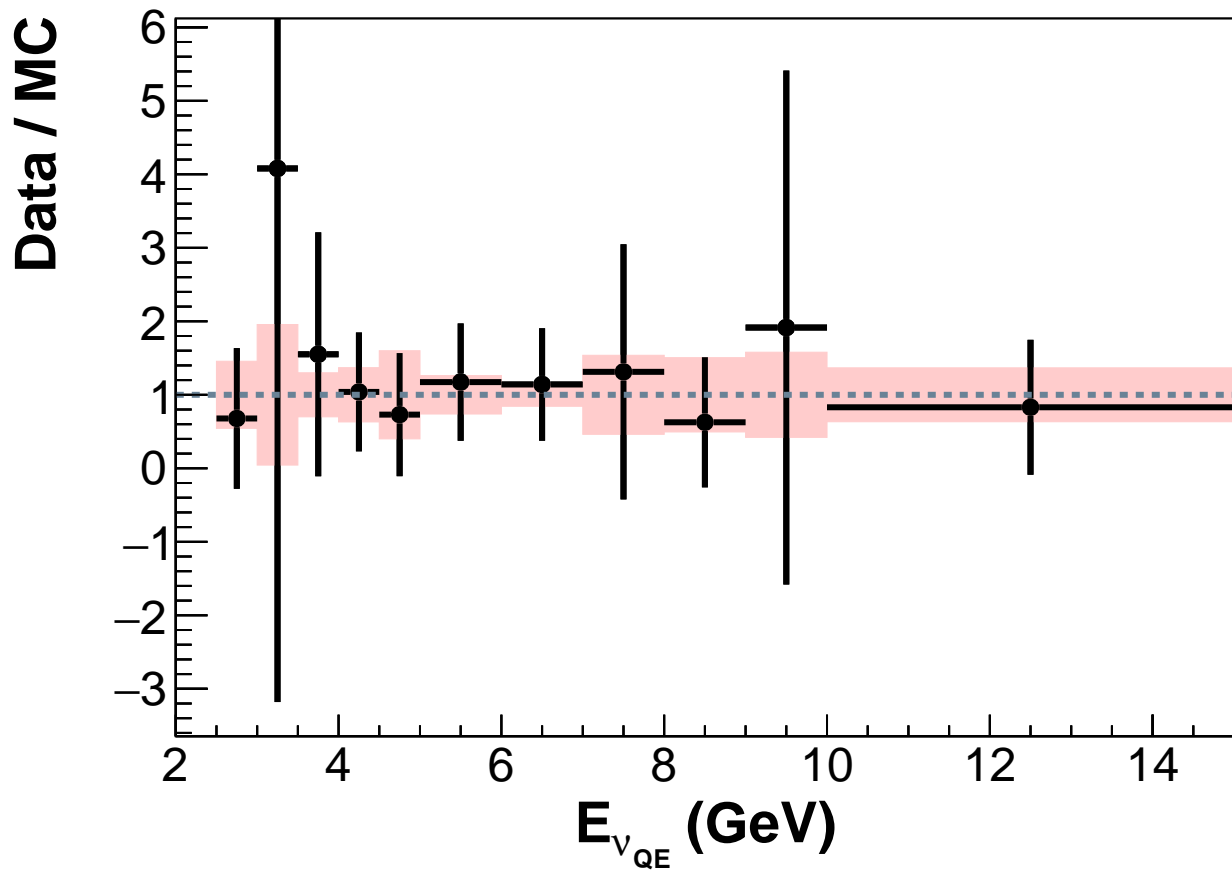
Signal Fraction Systematics



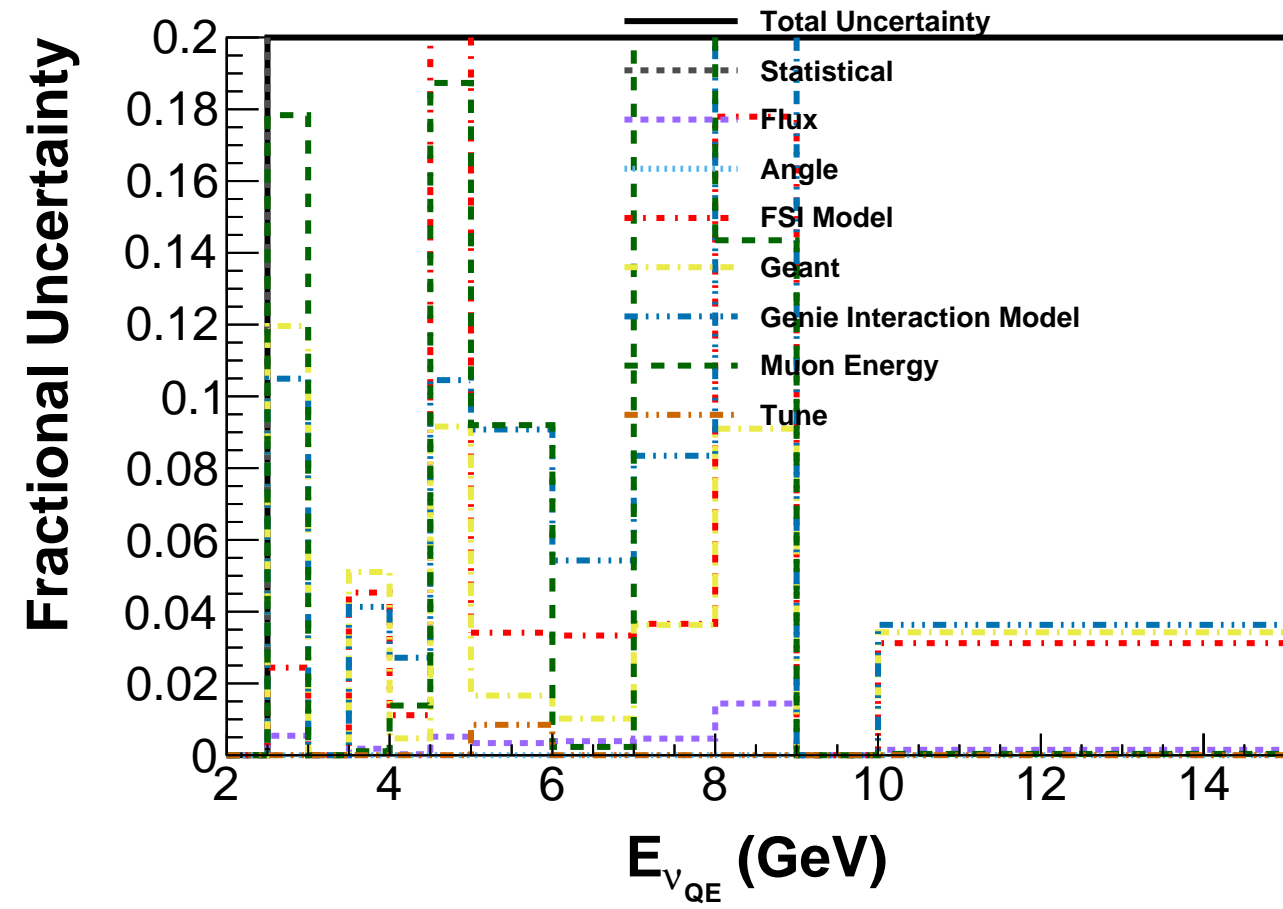
BKGsub vs. MC signal



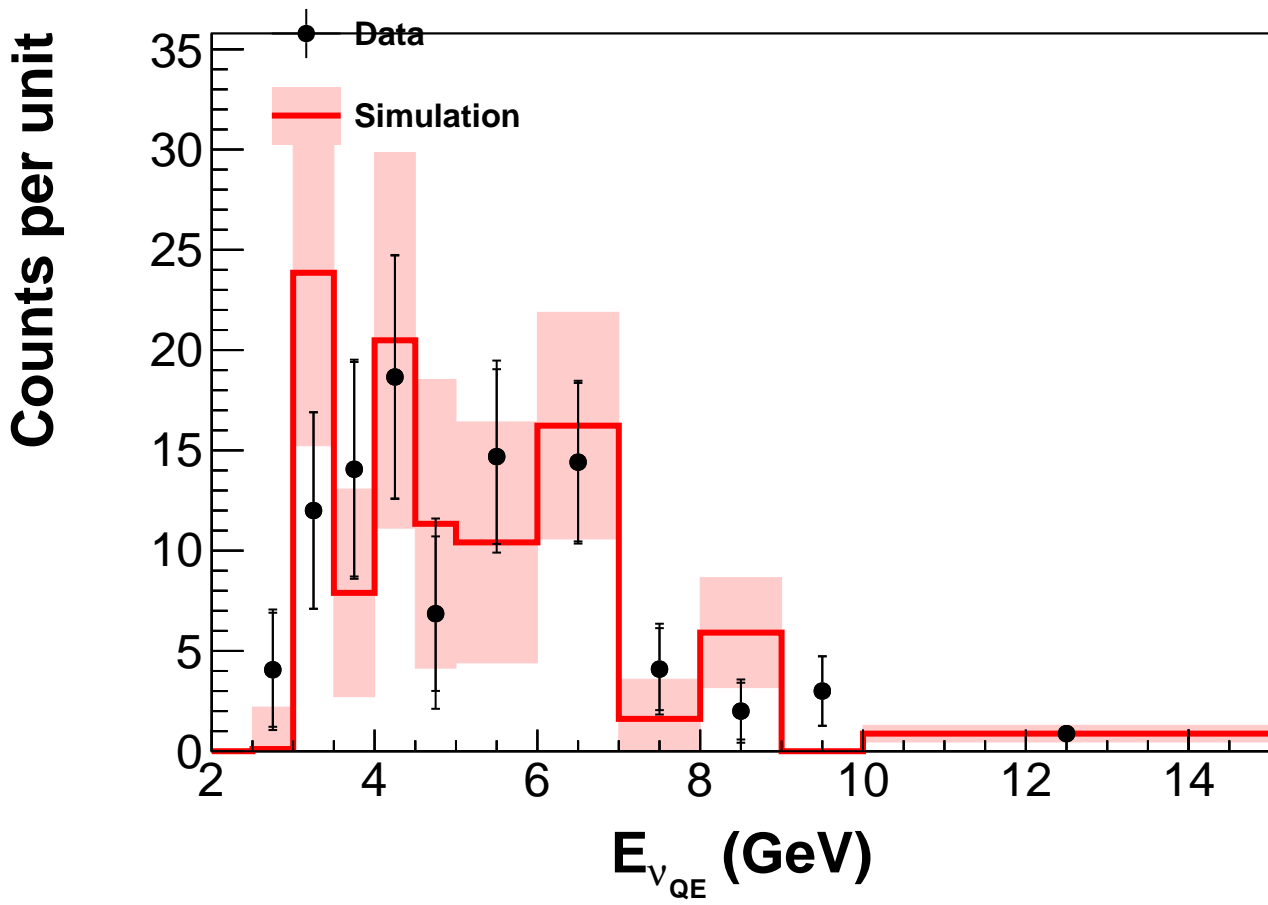
BKGsub vs. MC signal



BKGsub Systematics

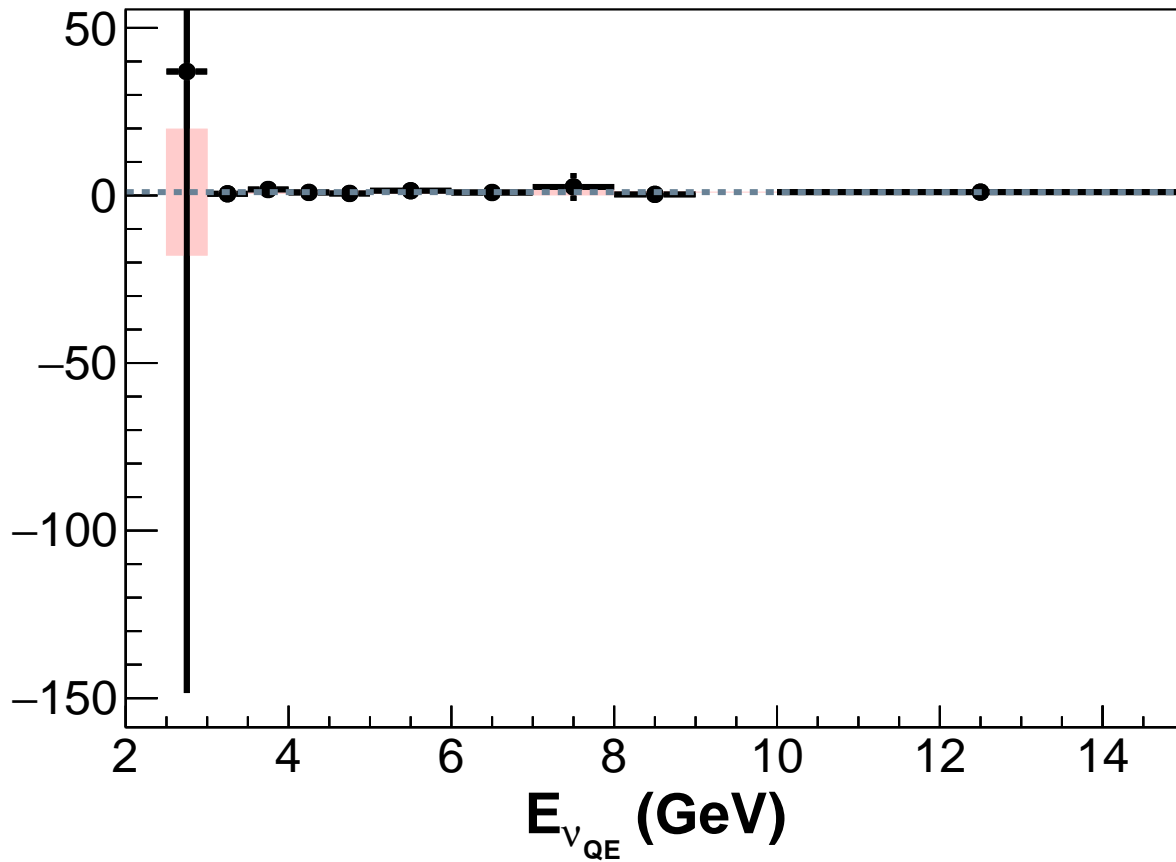


Data Before and After Unsmearing

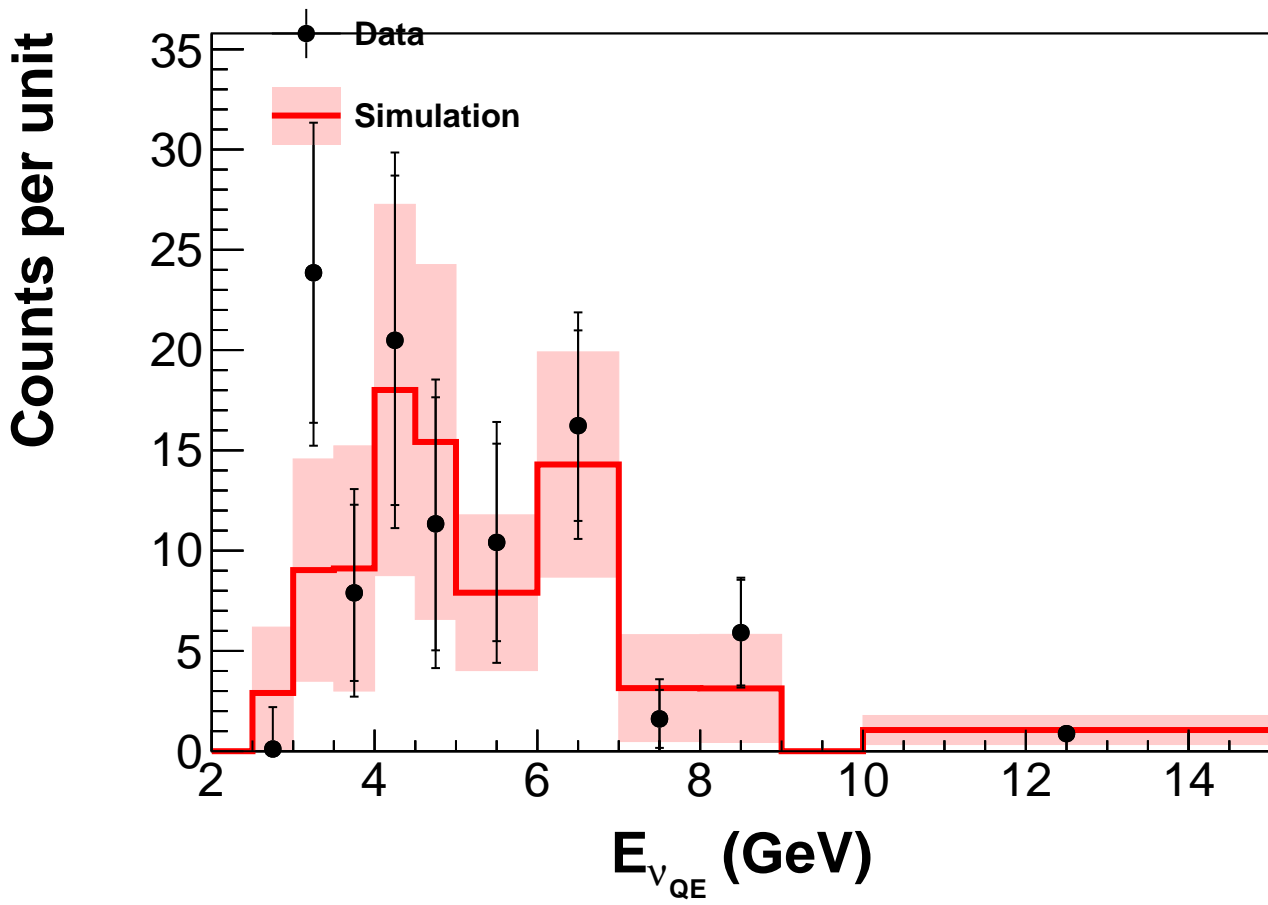


Data Before and After Unsmearing

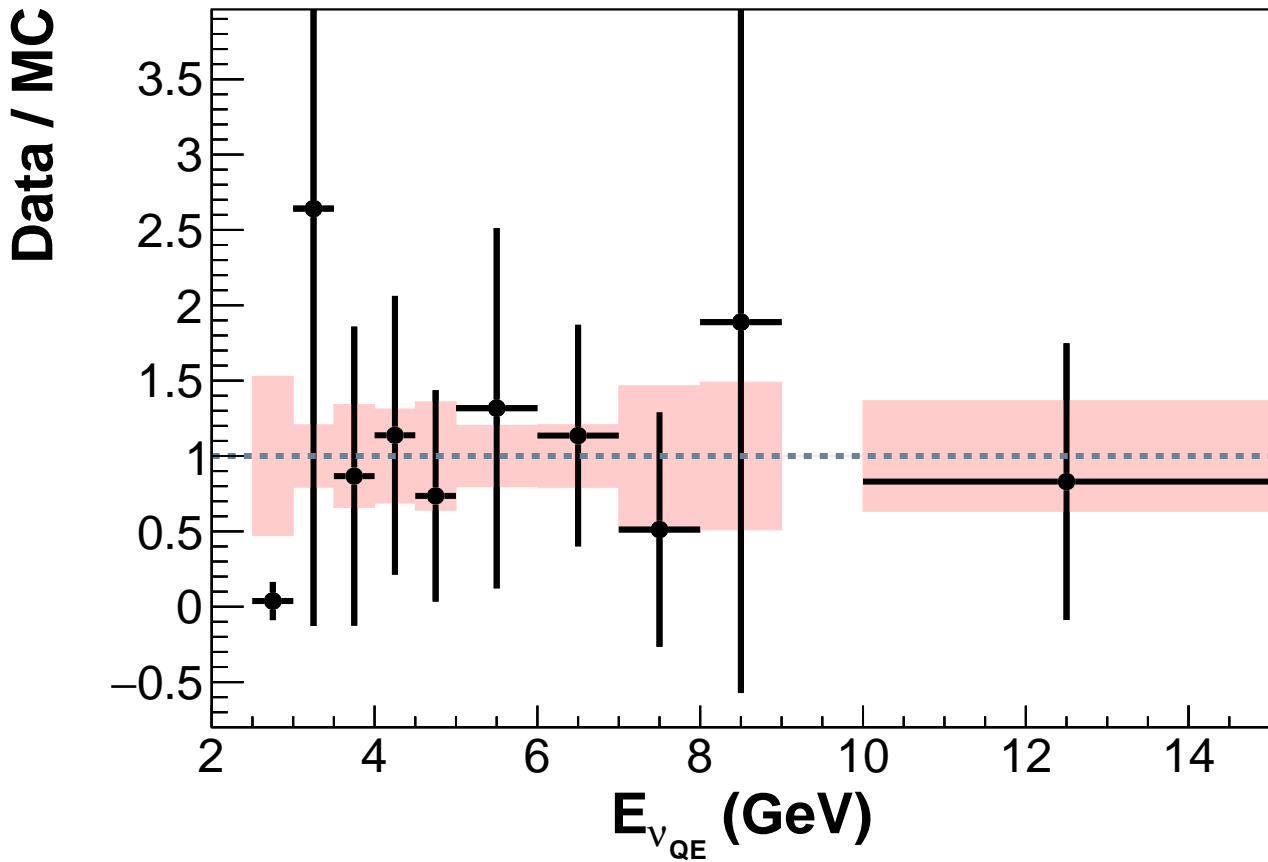
Data / MC



Unsmeared Data Compared to Selected MC



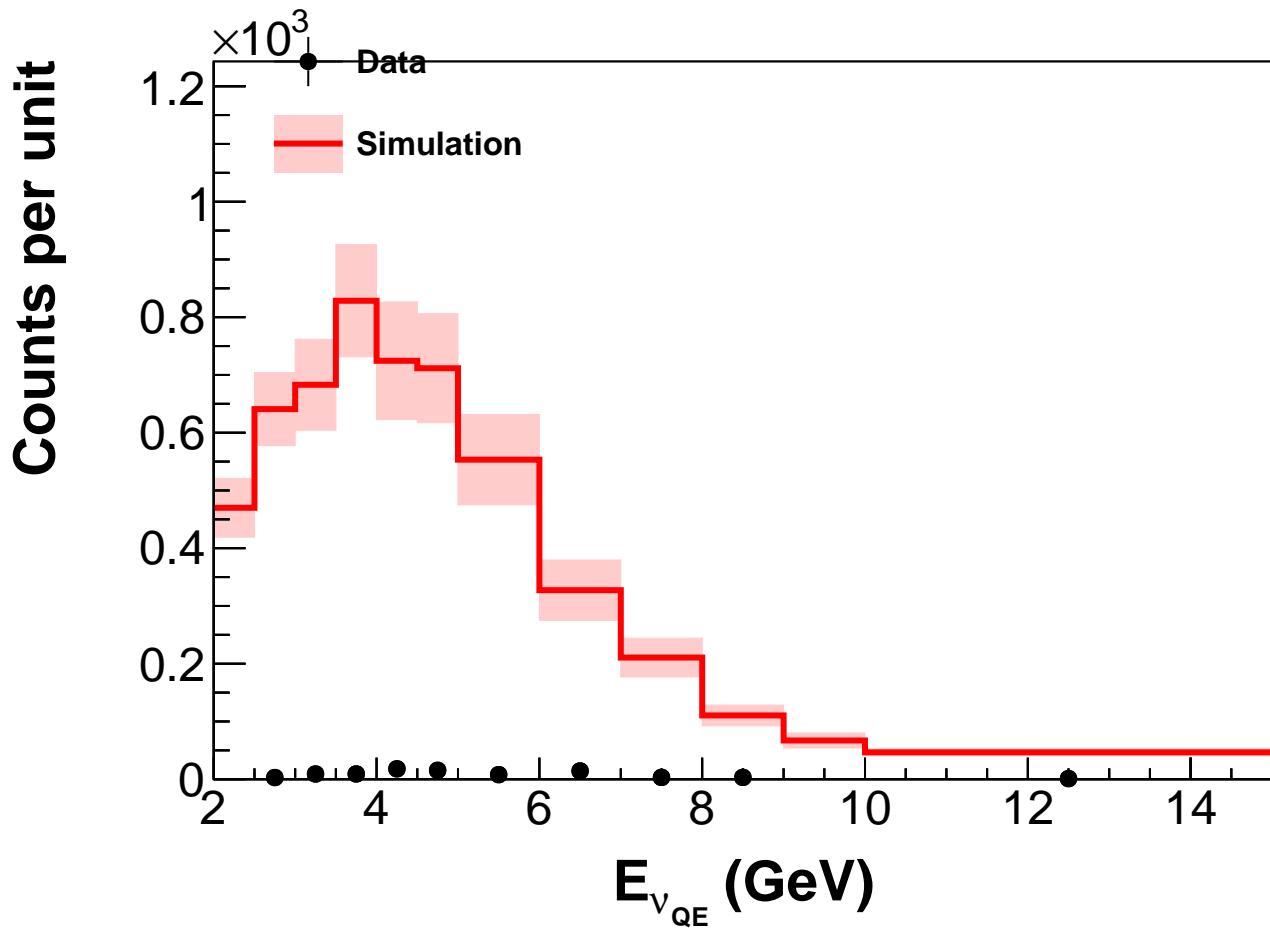
Unsmeared Data Compared to Selected MC



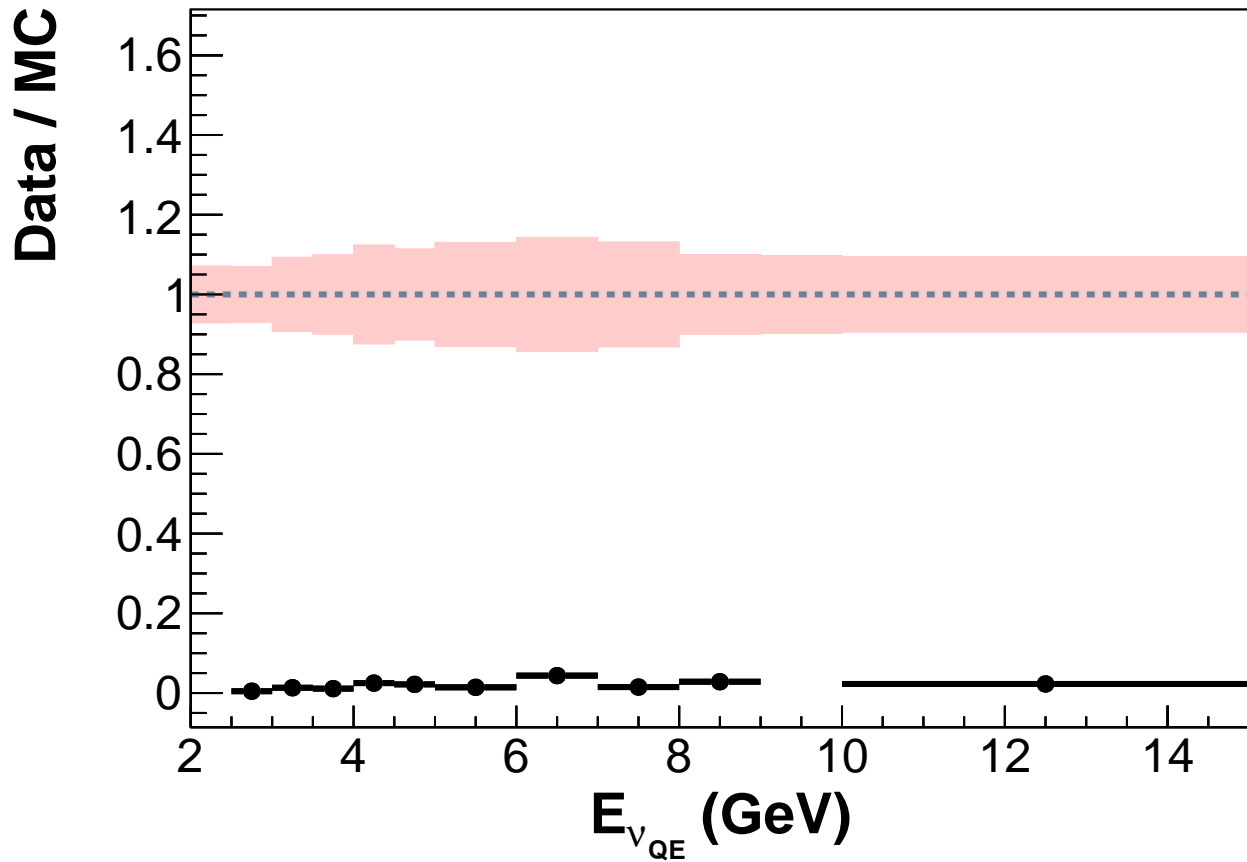
Unsmeared Data Systematics


$$E_{\nu_{QE}} \text{ (GeV)}$$

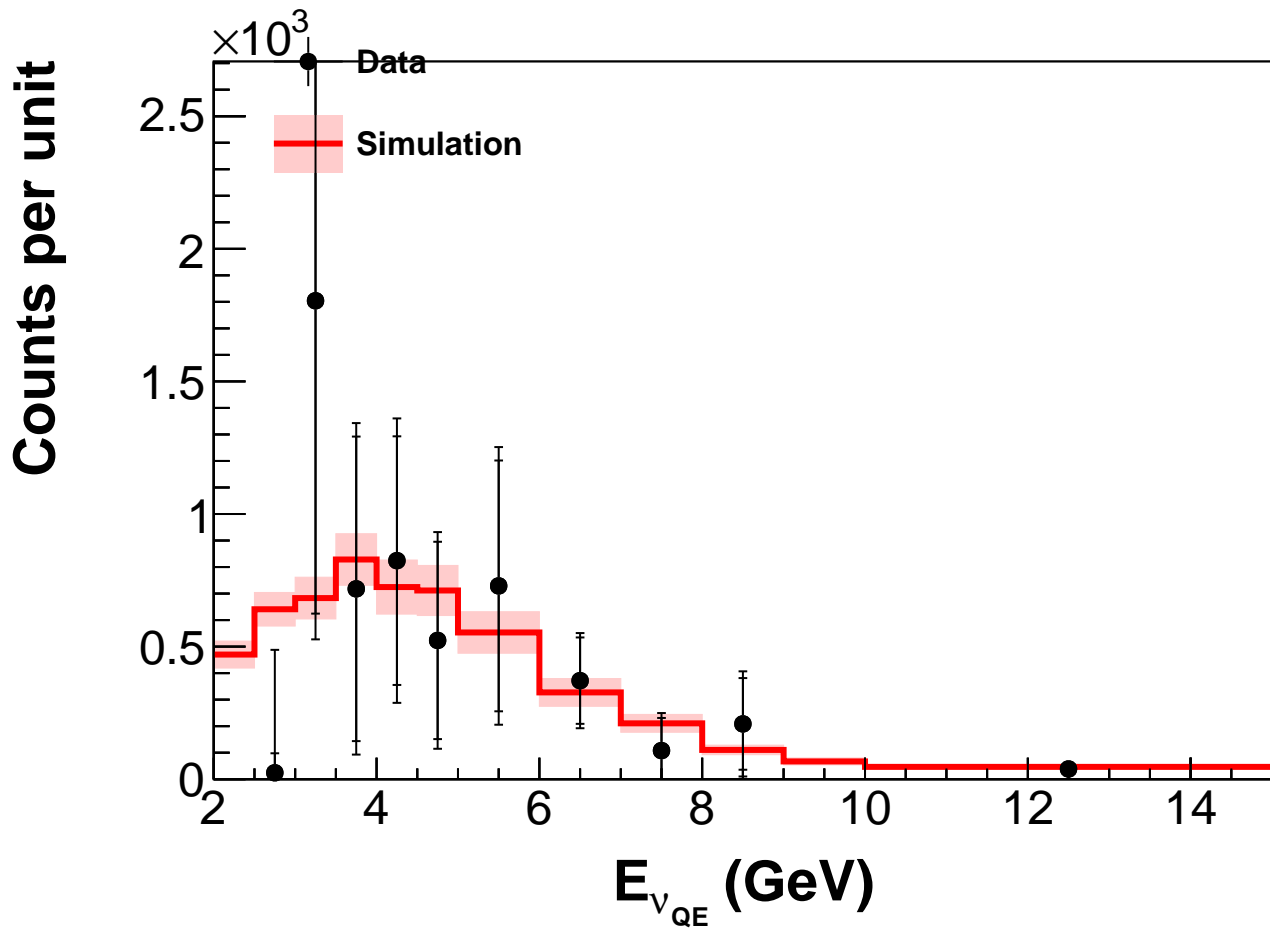
efficiency: selected and true



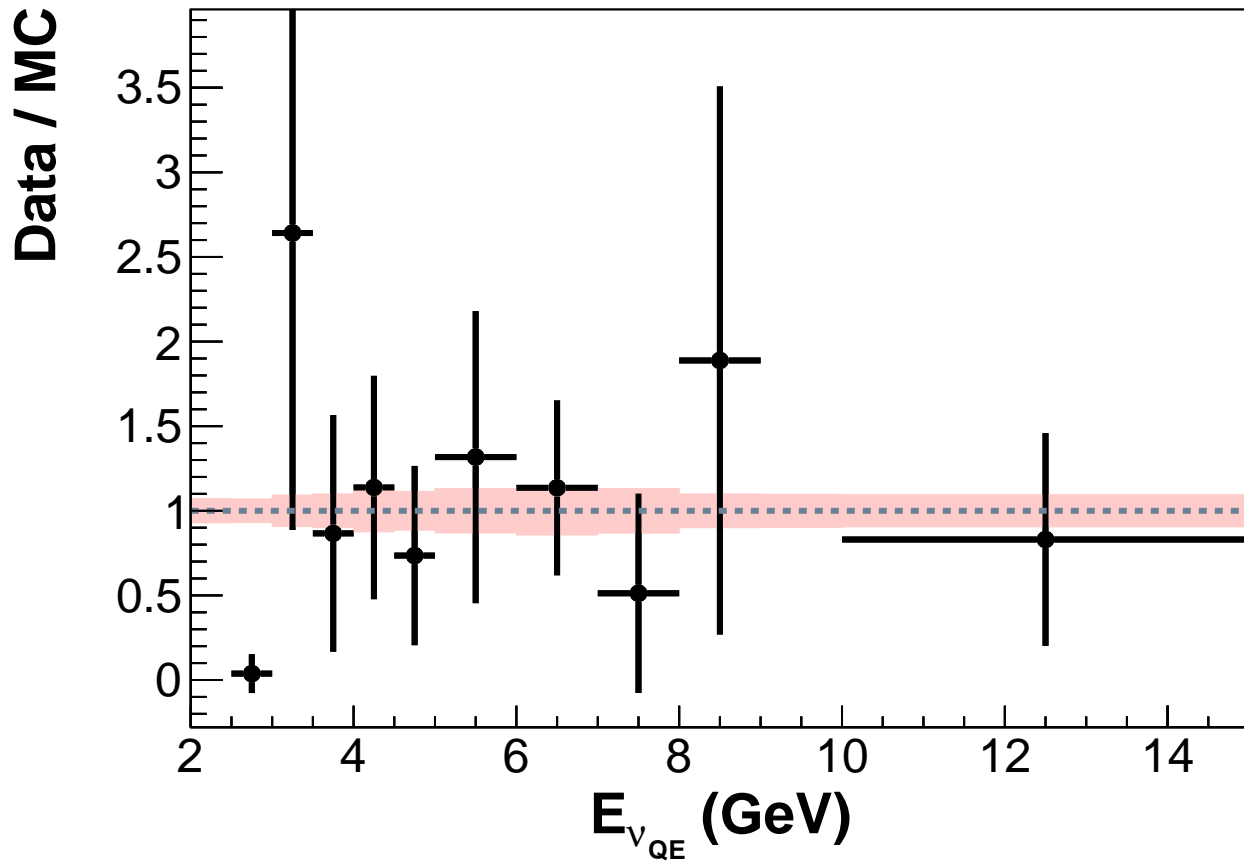
efficiency: selected and true



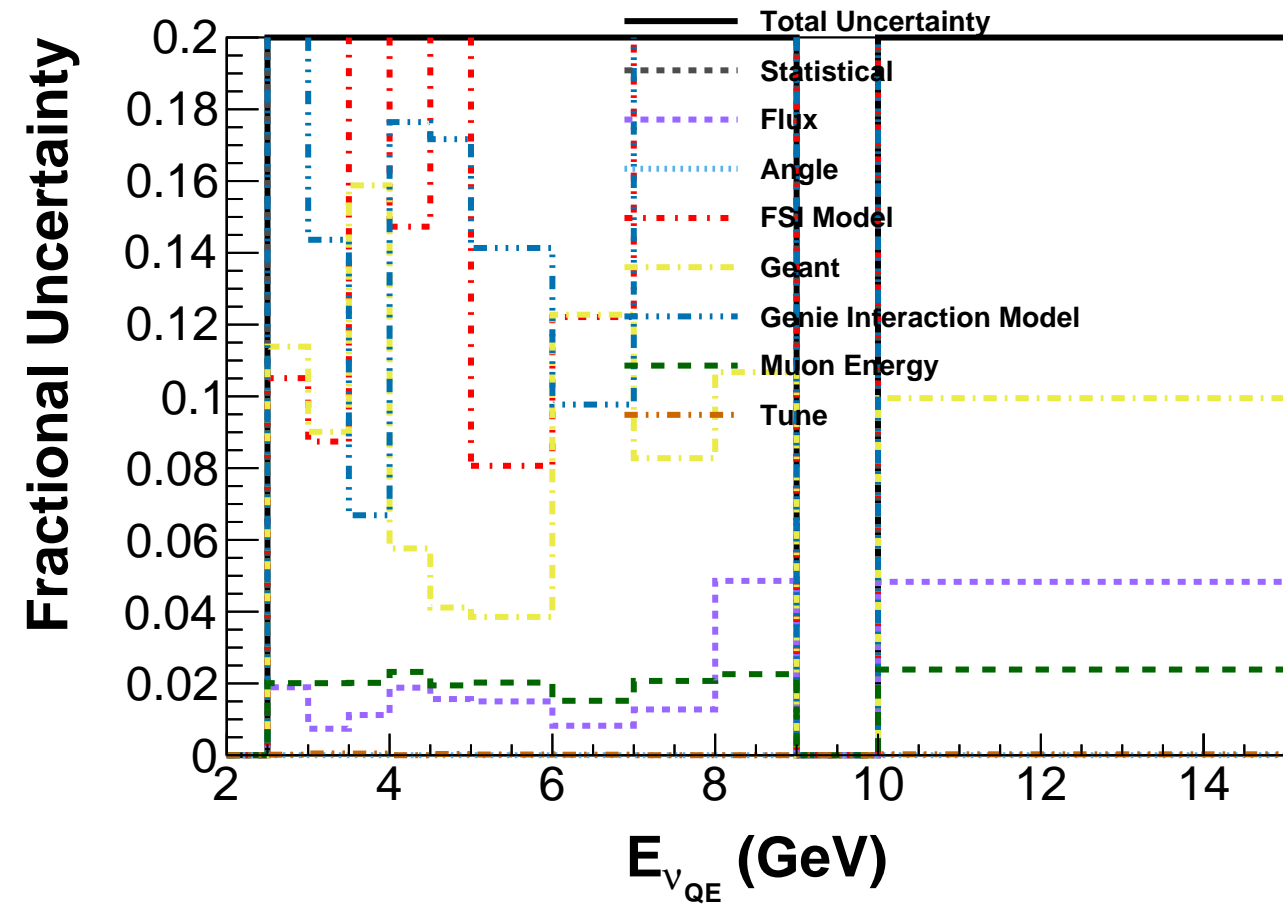
effcorr data vs truth



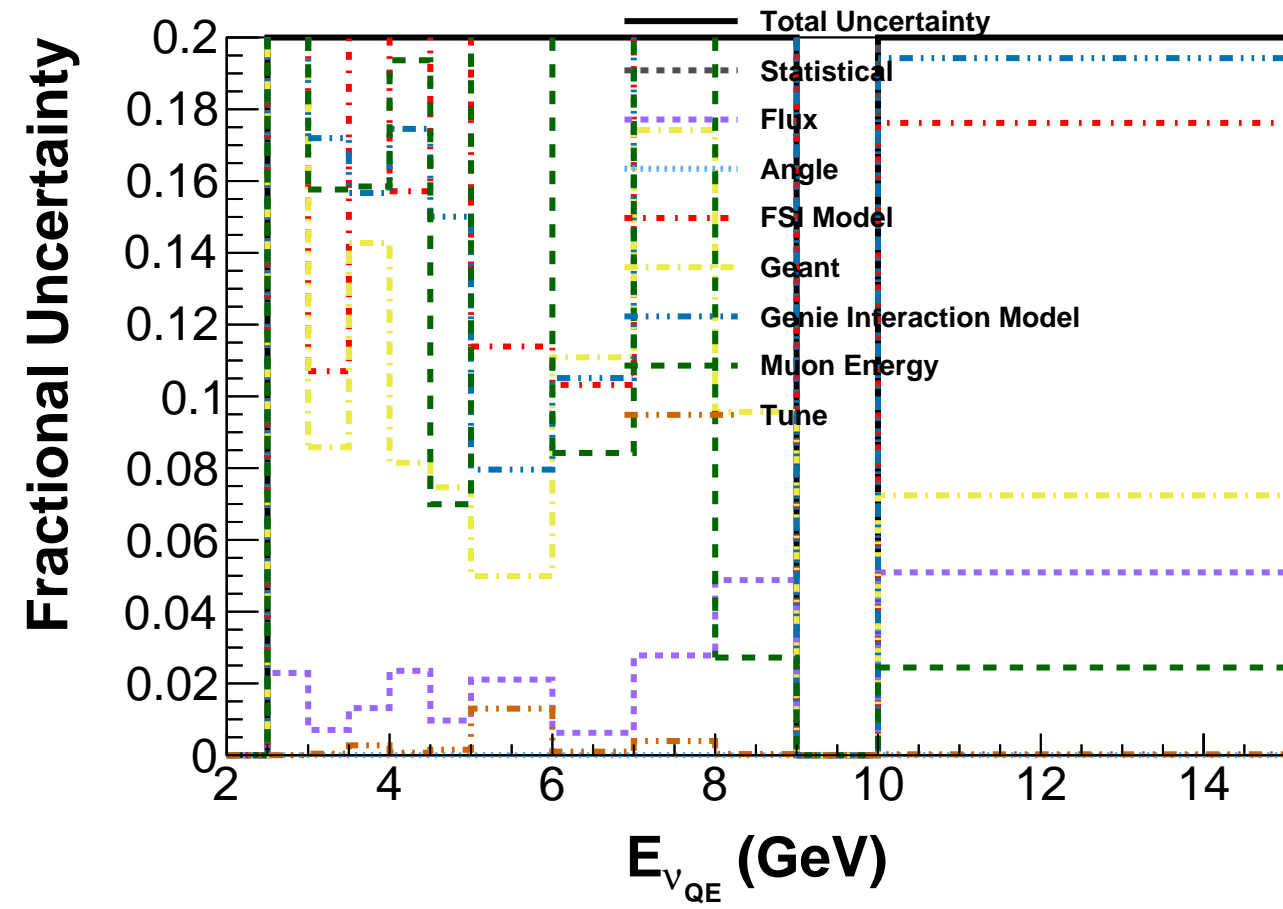
effcorr data vs truth



Efficiency Factor Systematics

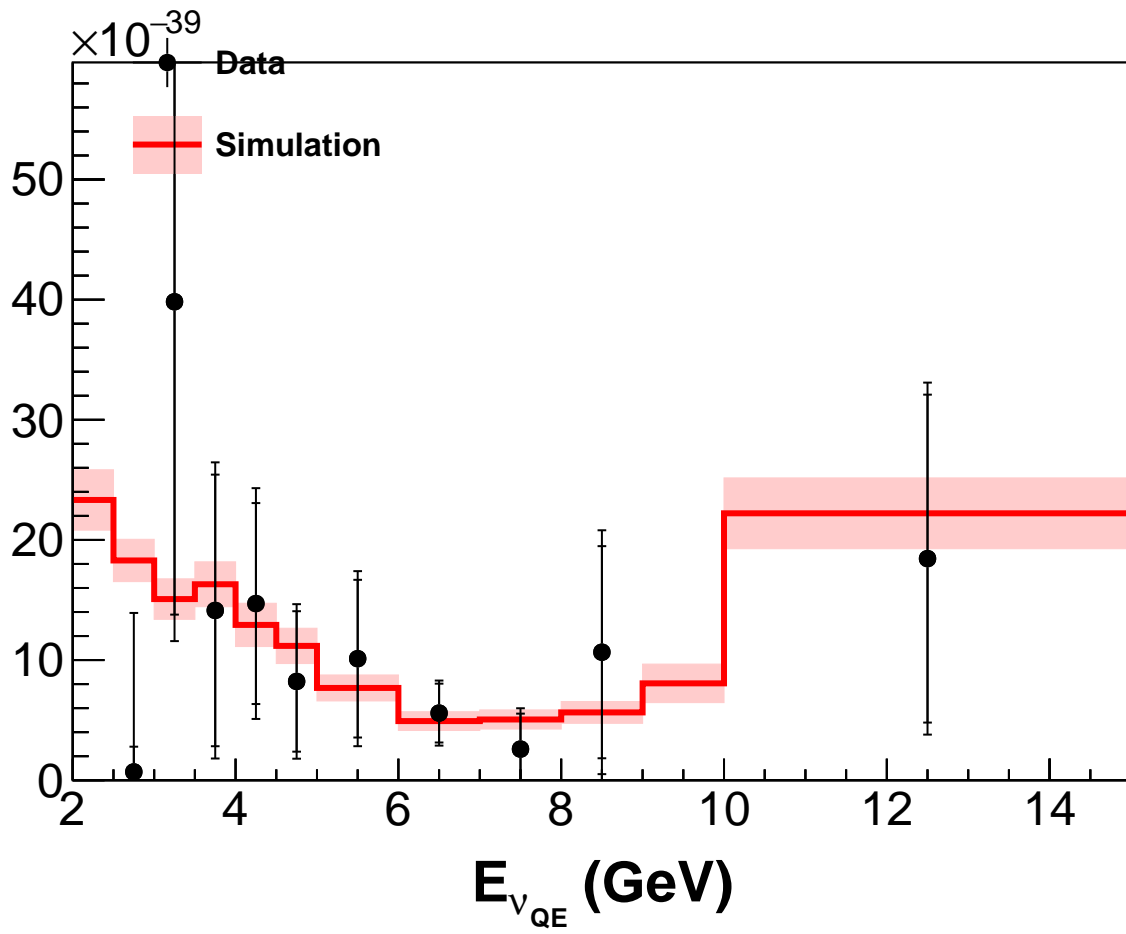


Efficiency Corrected Data Systematics



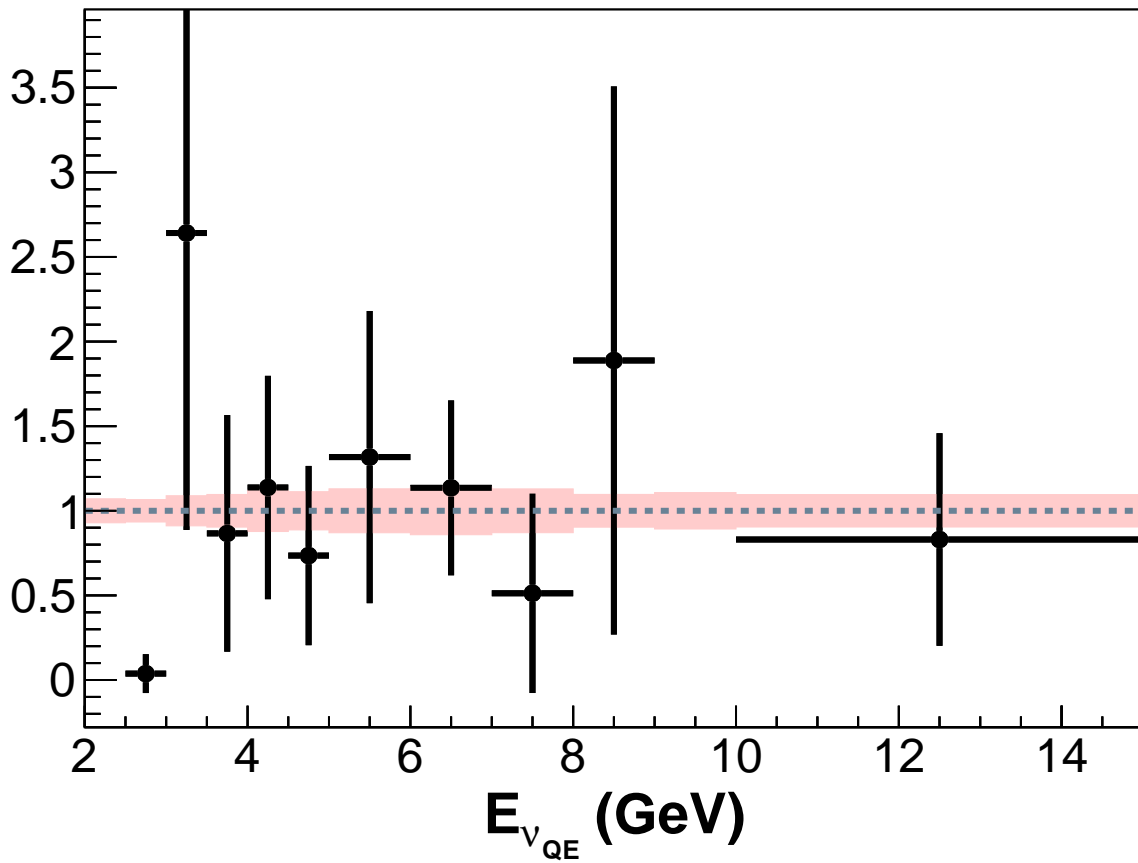
σ

Counts per unit

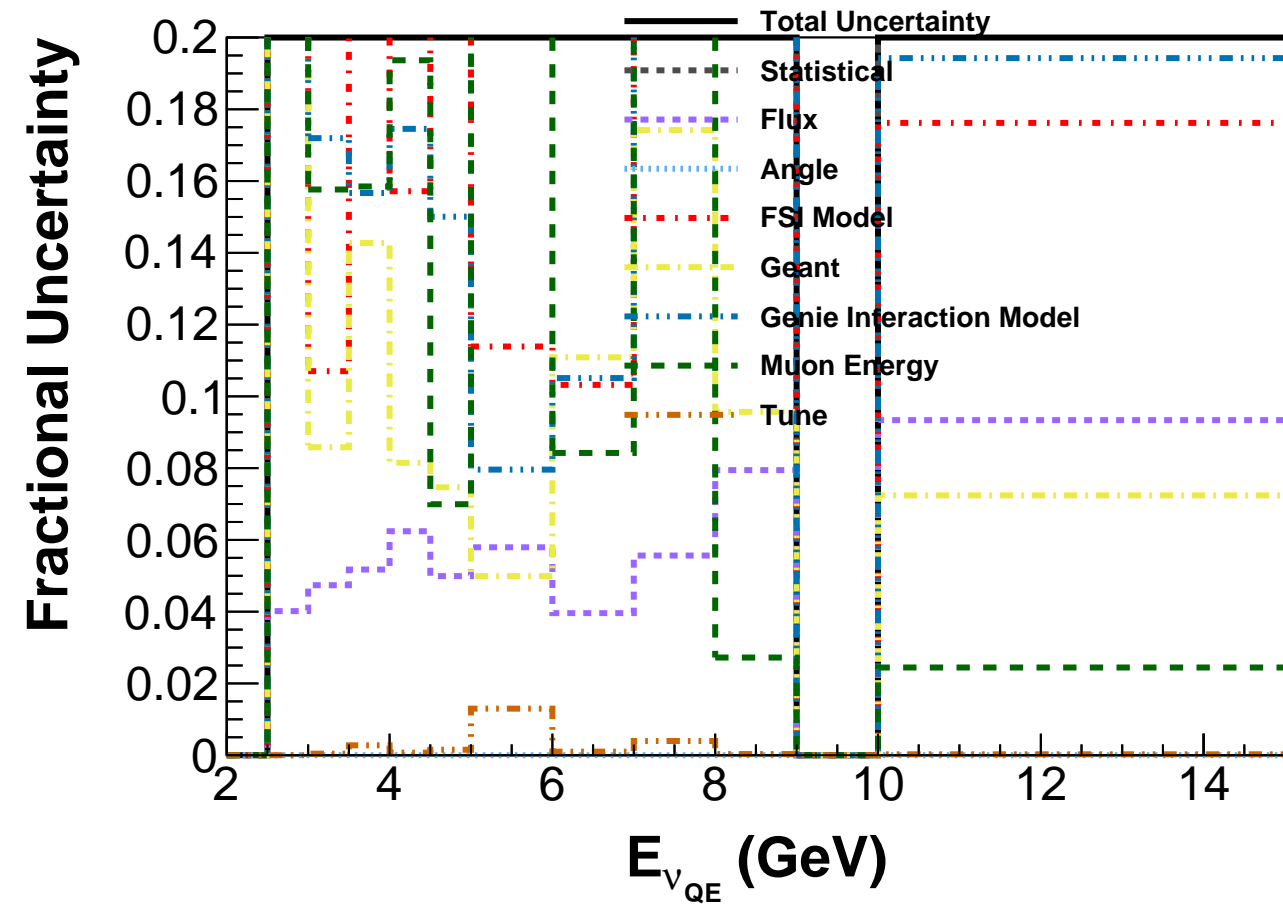


sigma

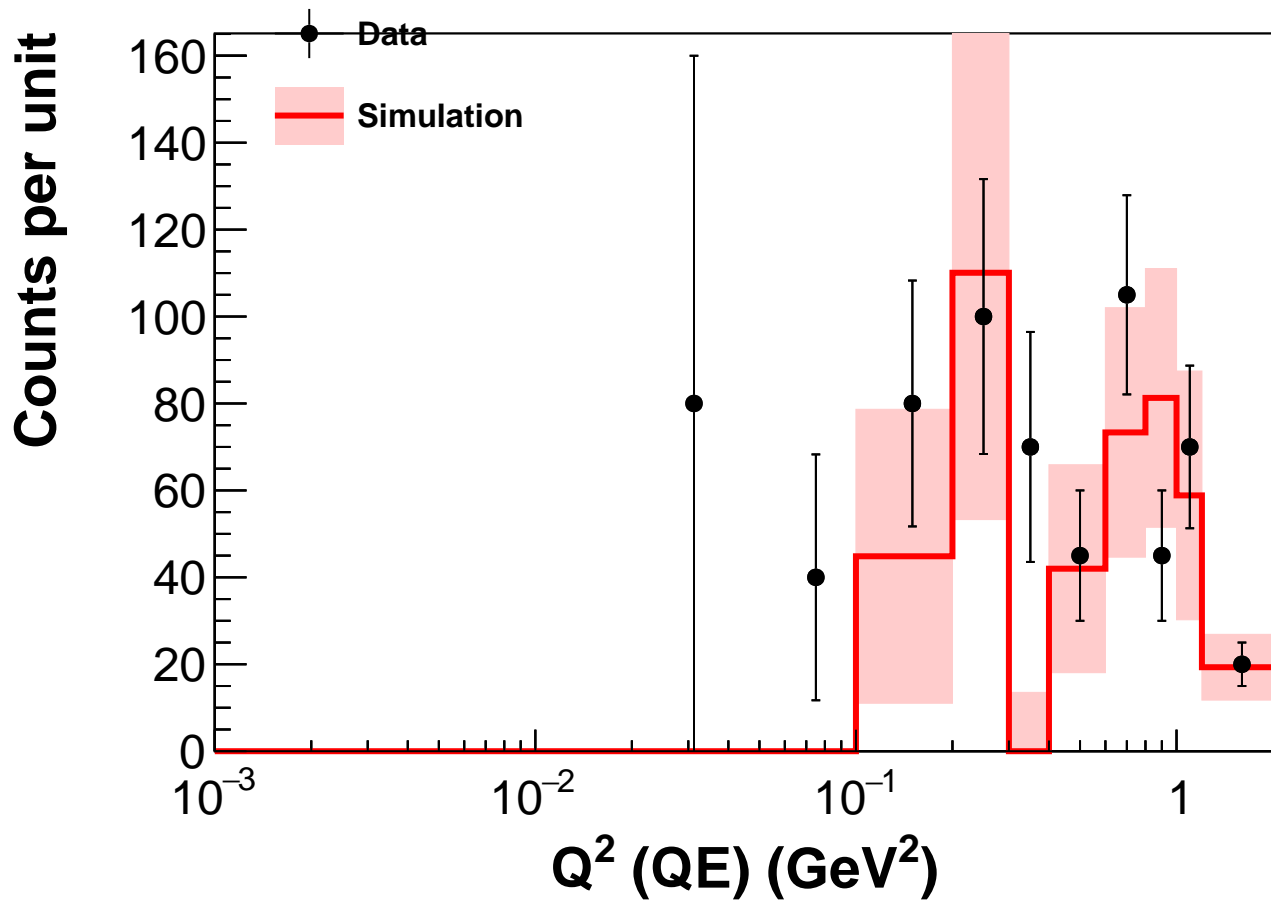
Data / MC



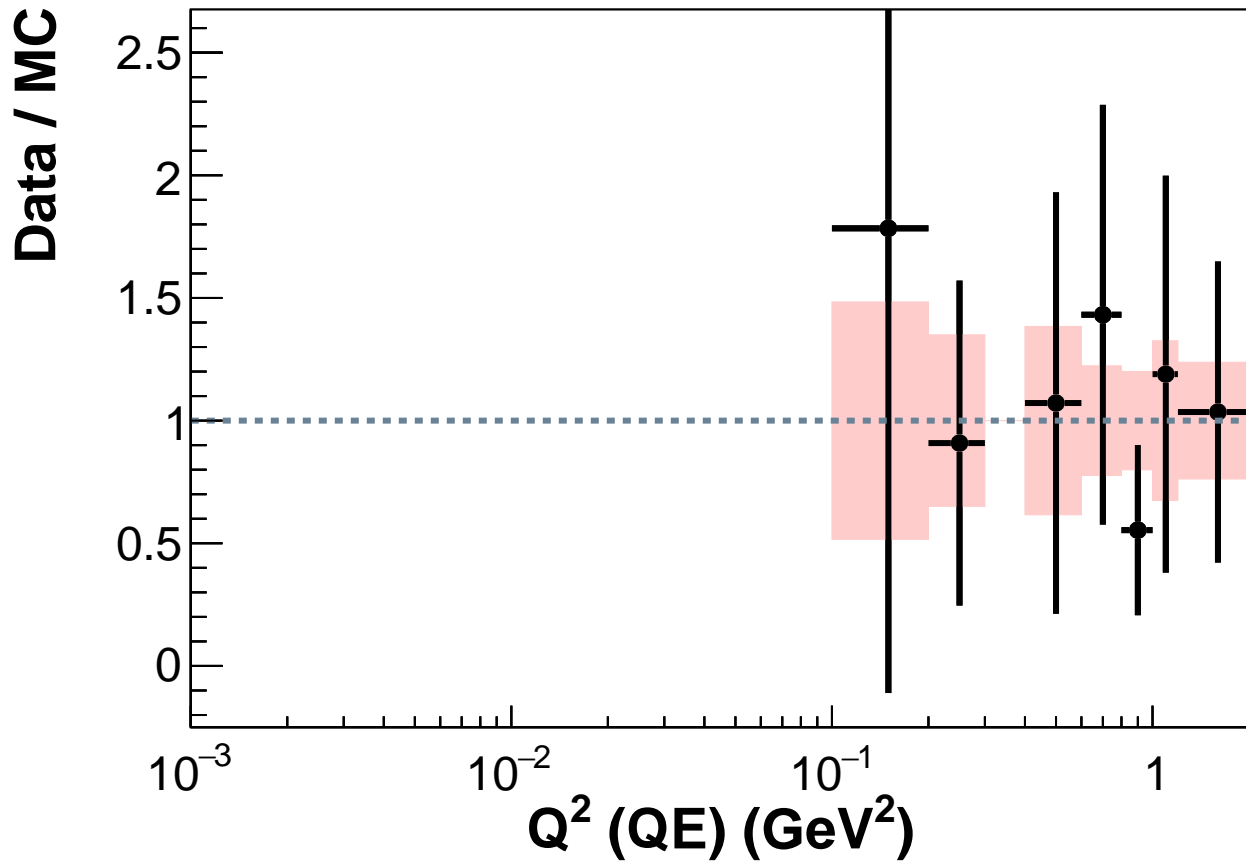
Cross Section Systematics



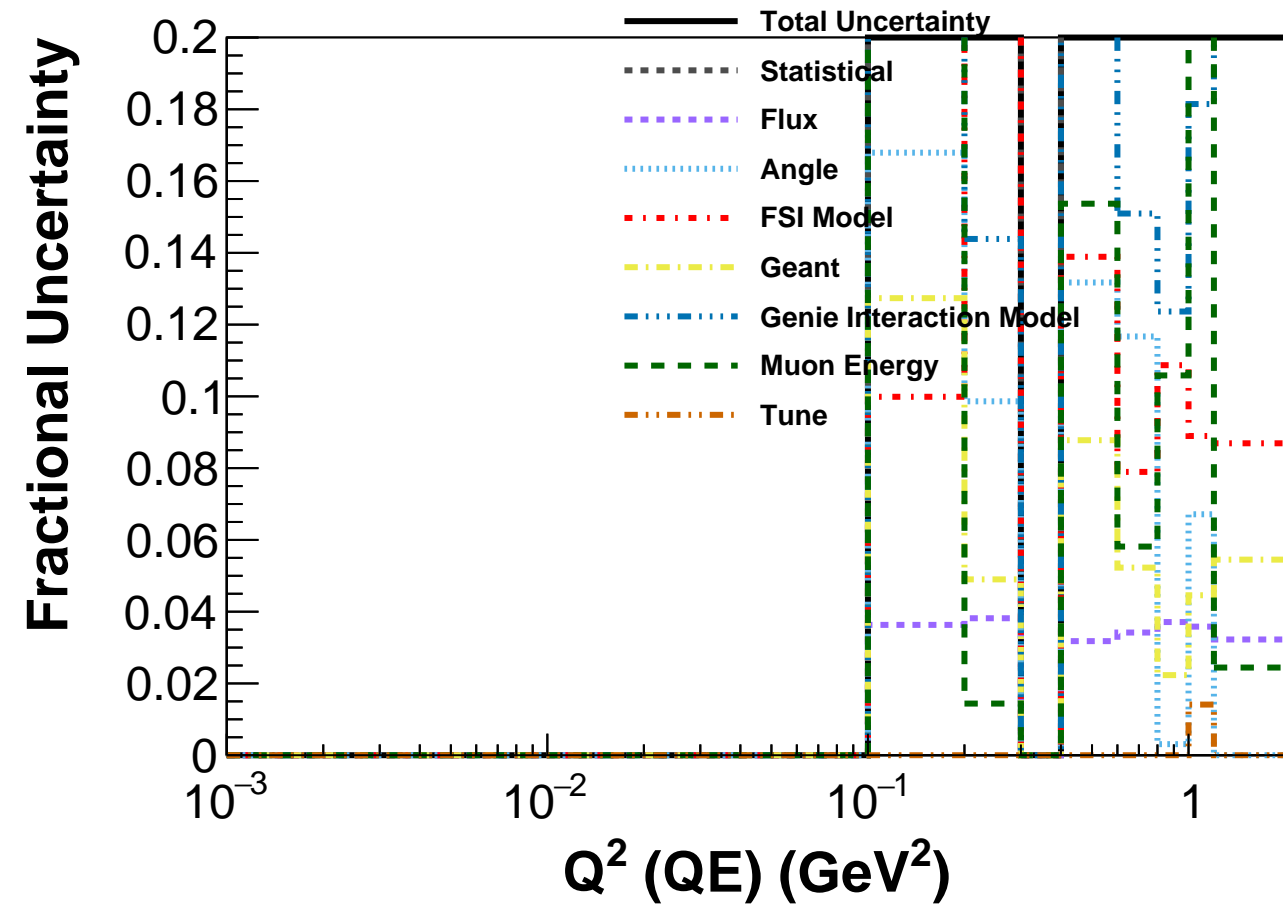
DATA_vs_MC



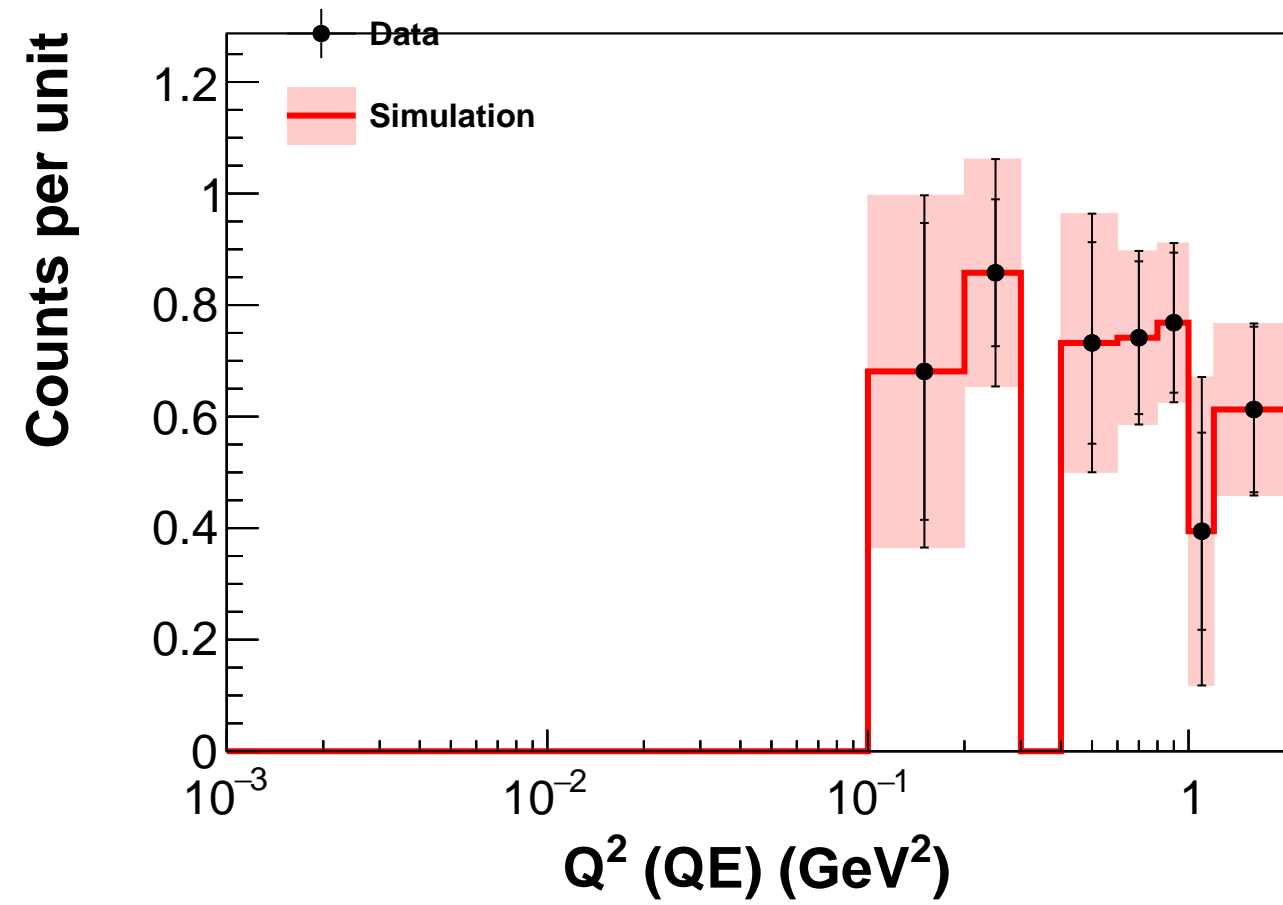
DATA_vs_MC



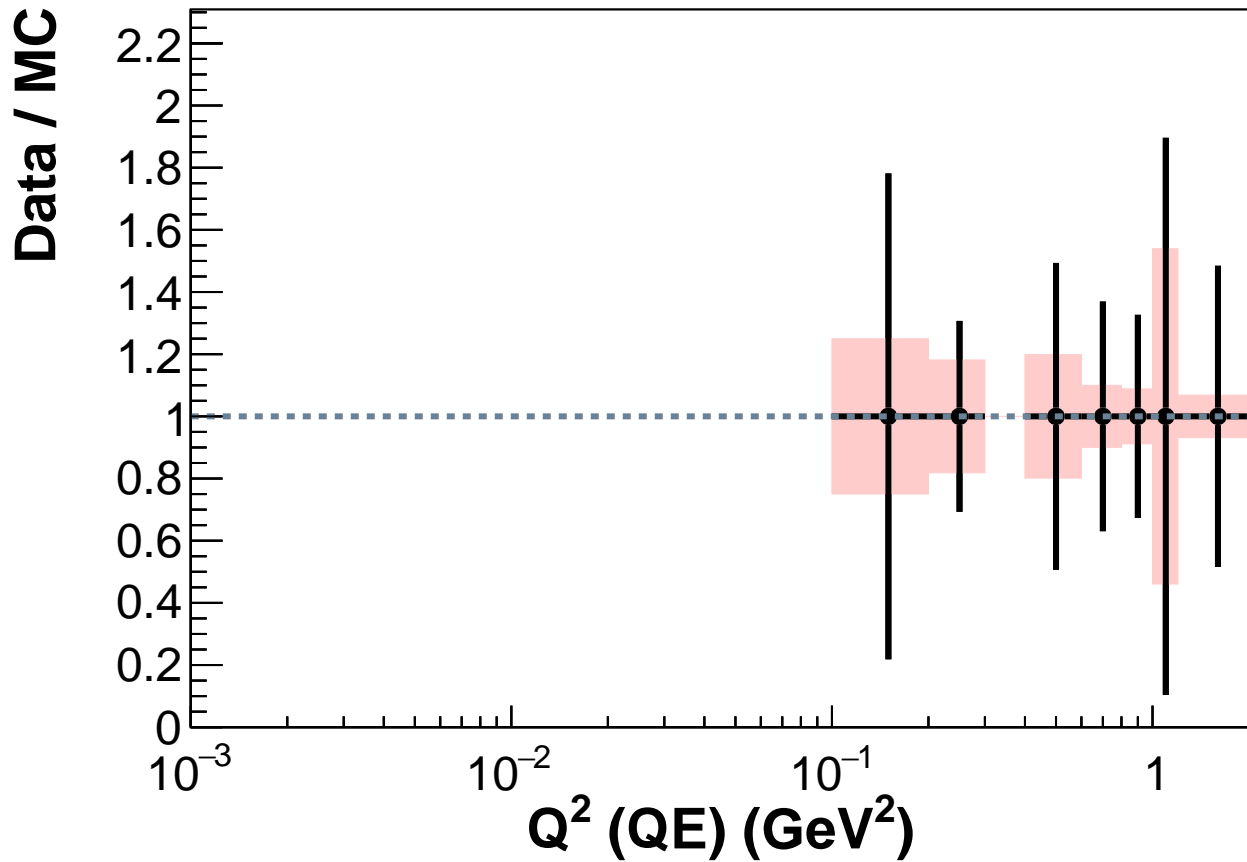
Raw MC Systematics



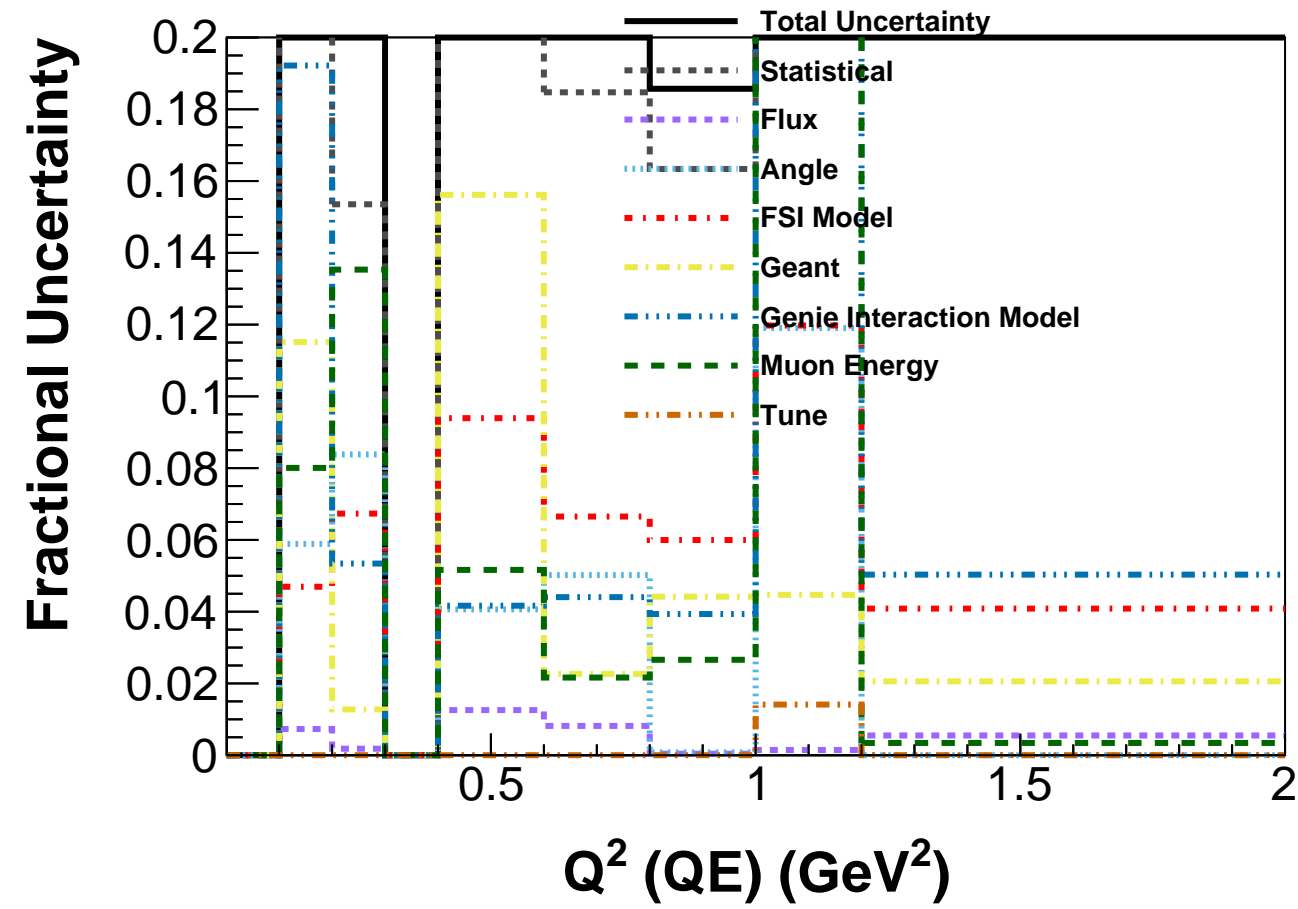
Signal Fraction



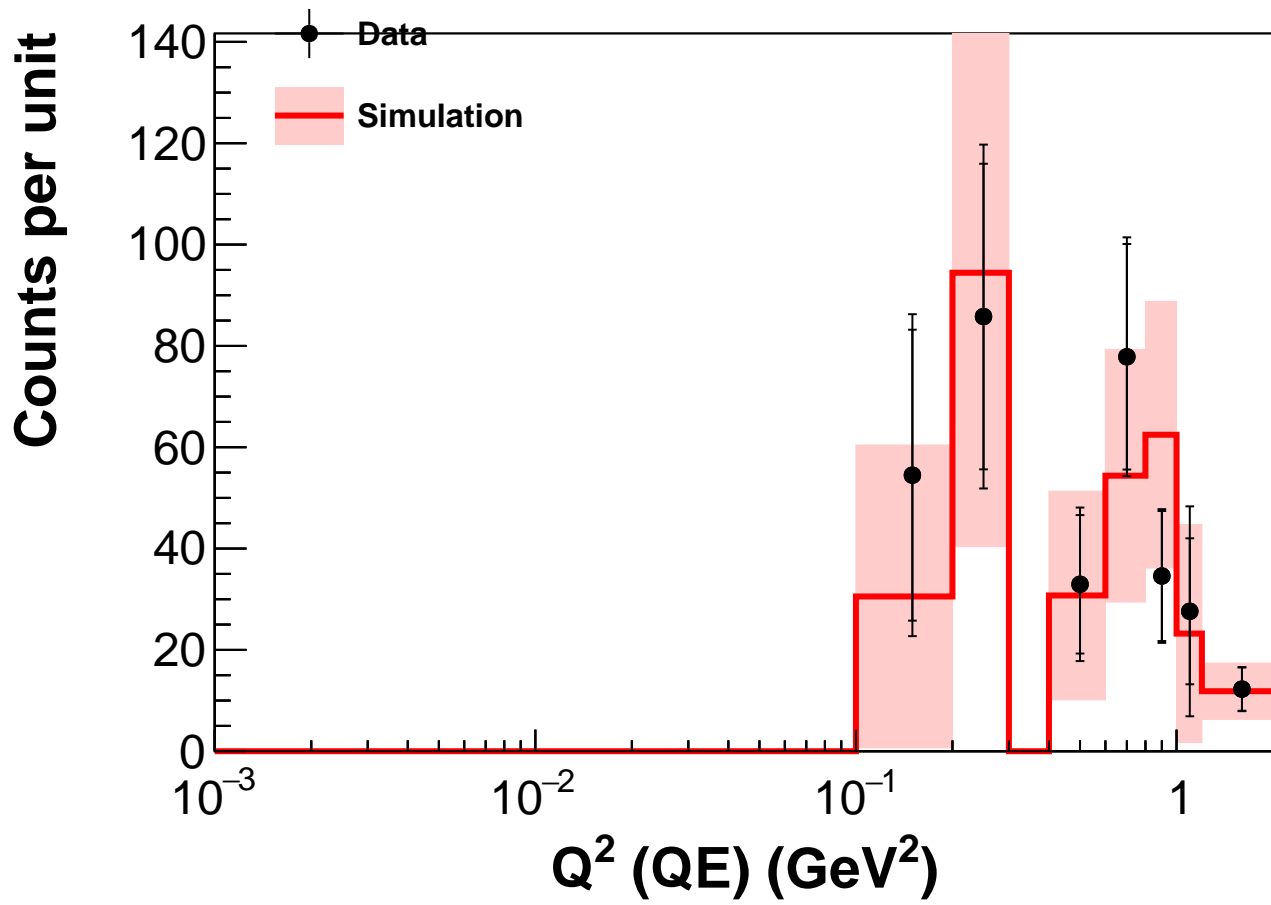
Signal Fraction



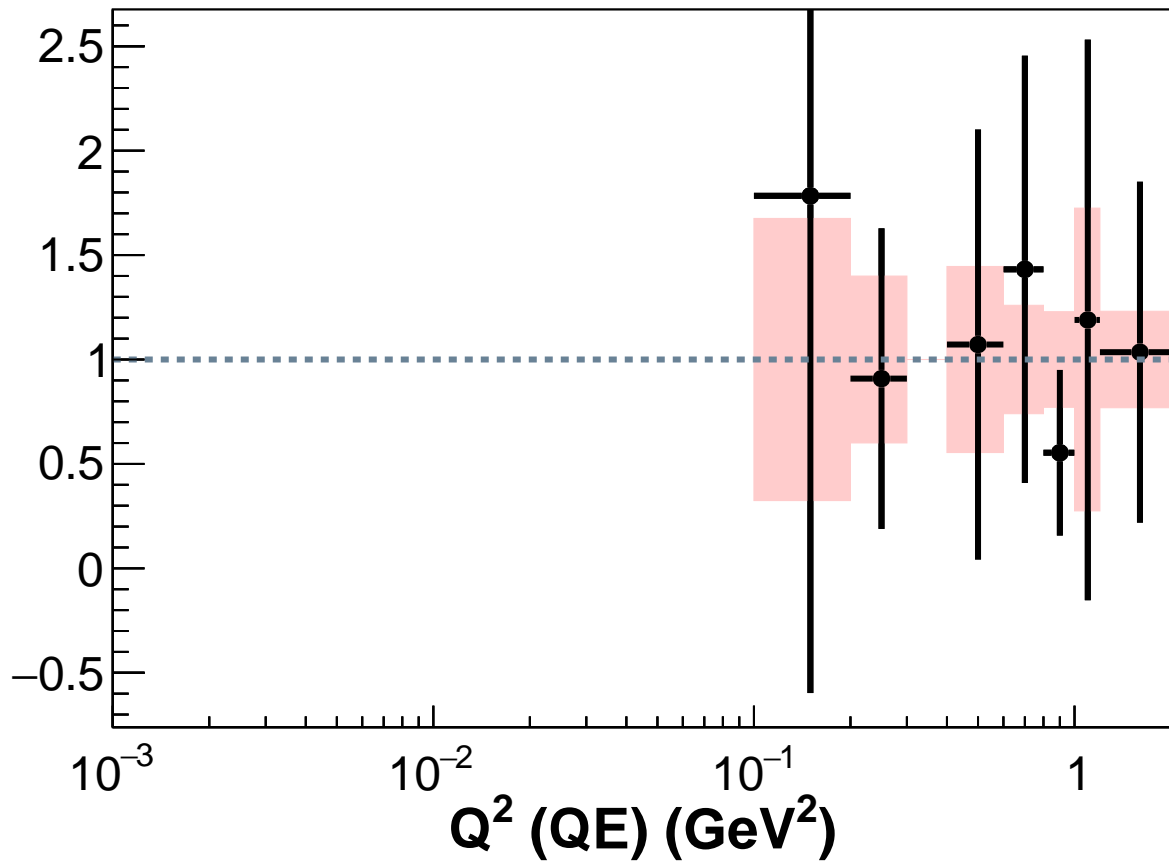
Signal Fraction Systematics



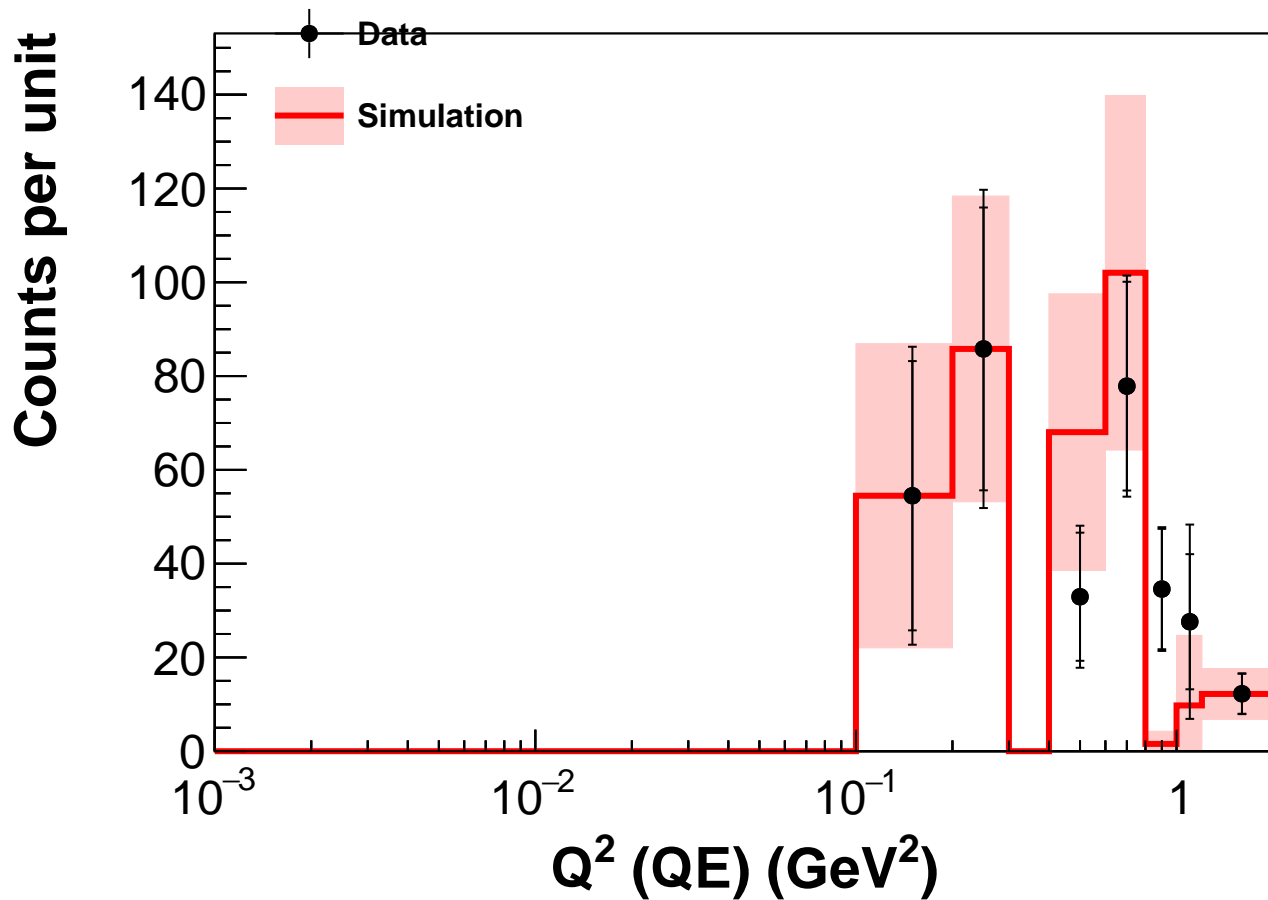
BKGsub vs. MC signal



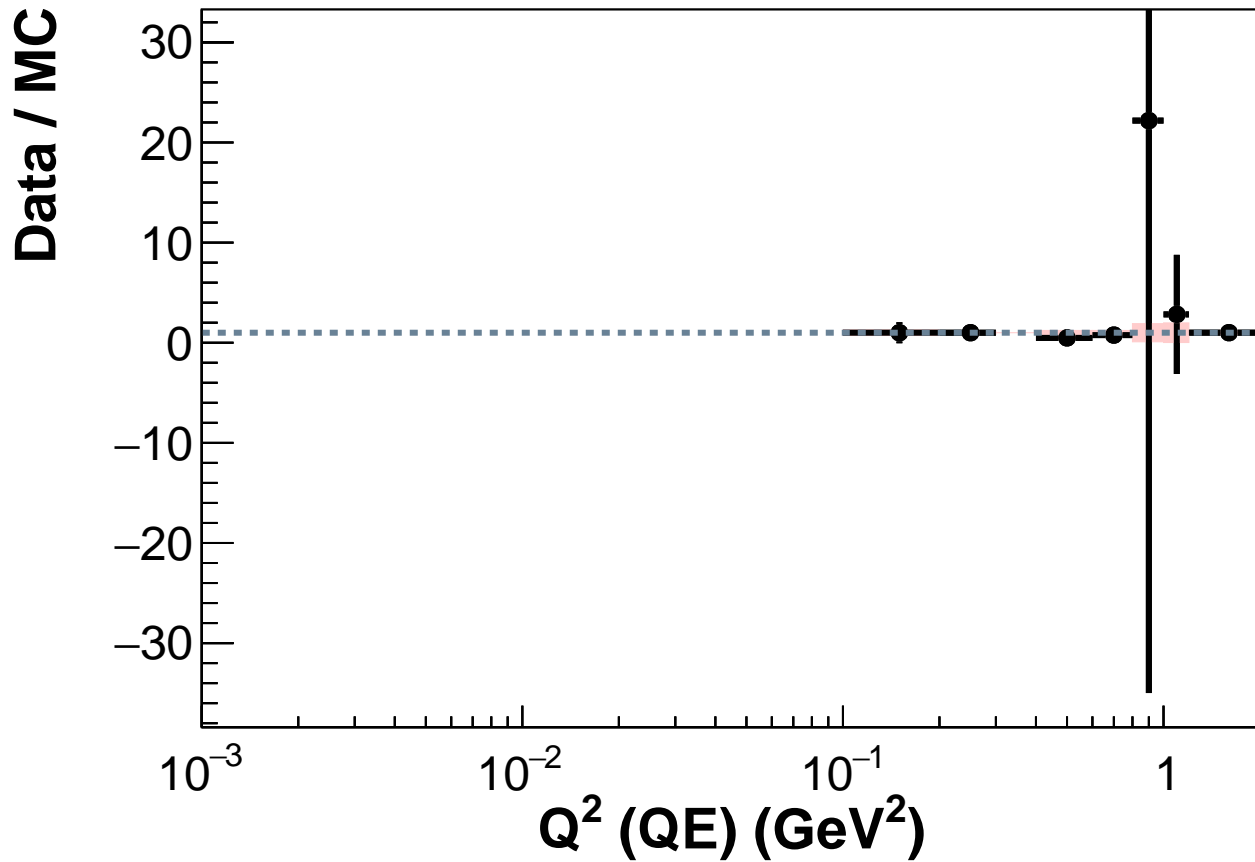
BKGsub vs. MC signal



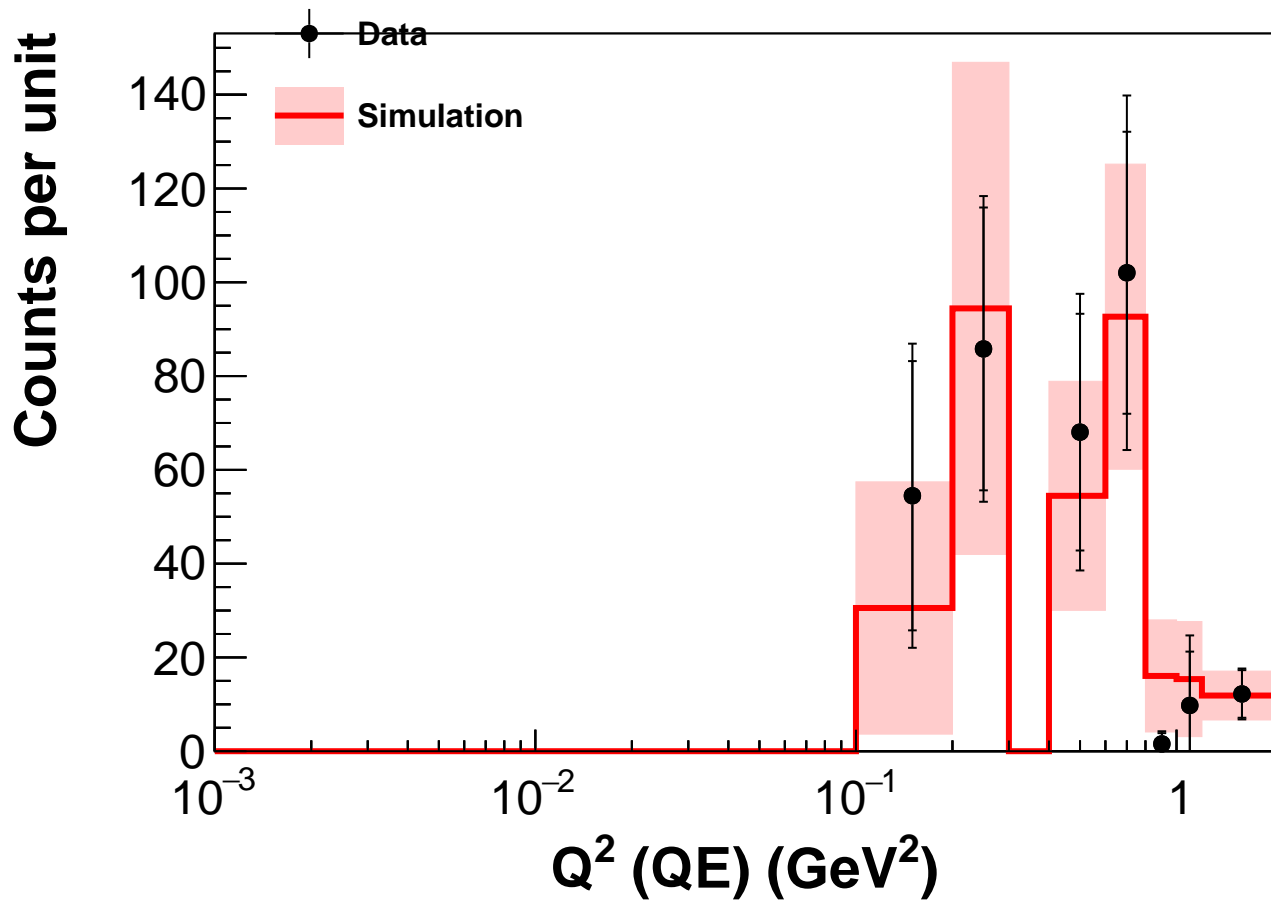
Data Before and After Unsmearing



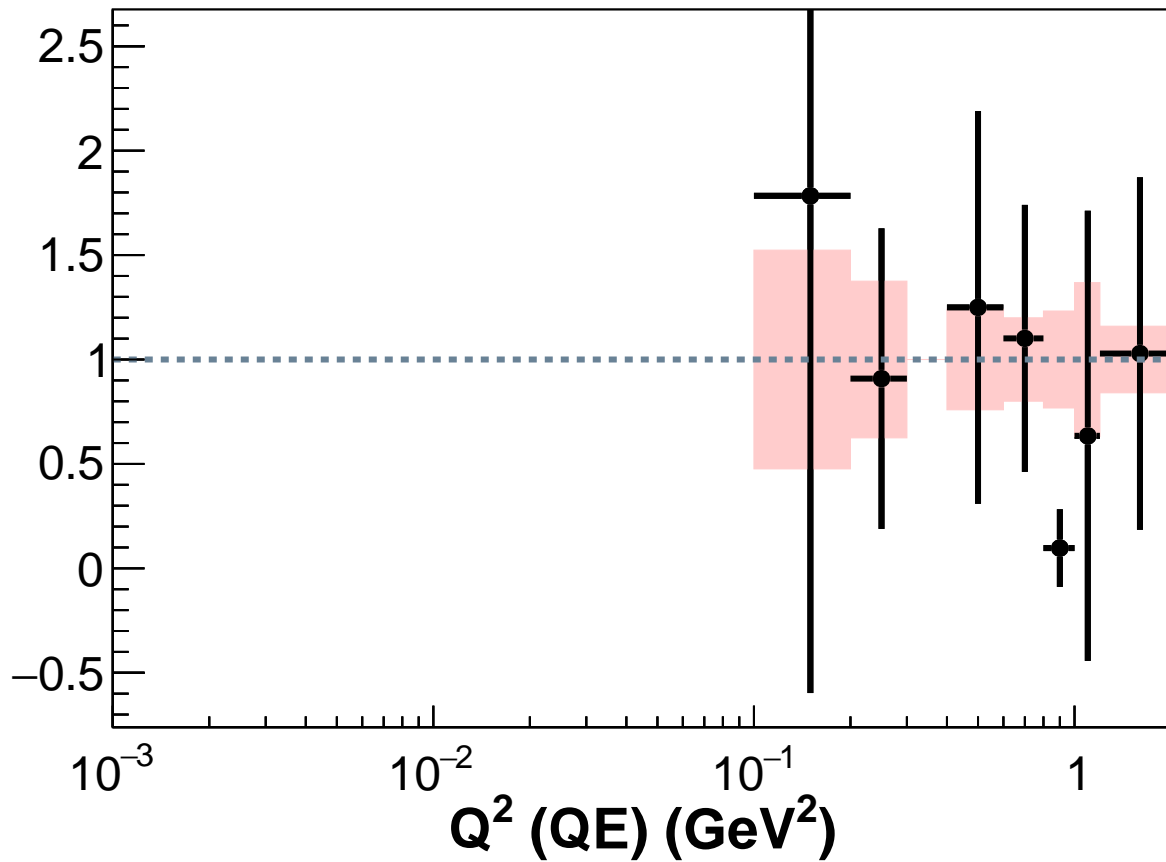
Data Before and After Unsmearing



Unsmeared Data Compared to Selected MC



Unsmeared Data Compared to Selected MC



Unsmeared Data Systematics



———— Total Uncertainty

Statistical

Flux

Angle

FSI Model

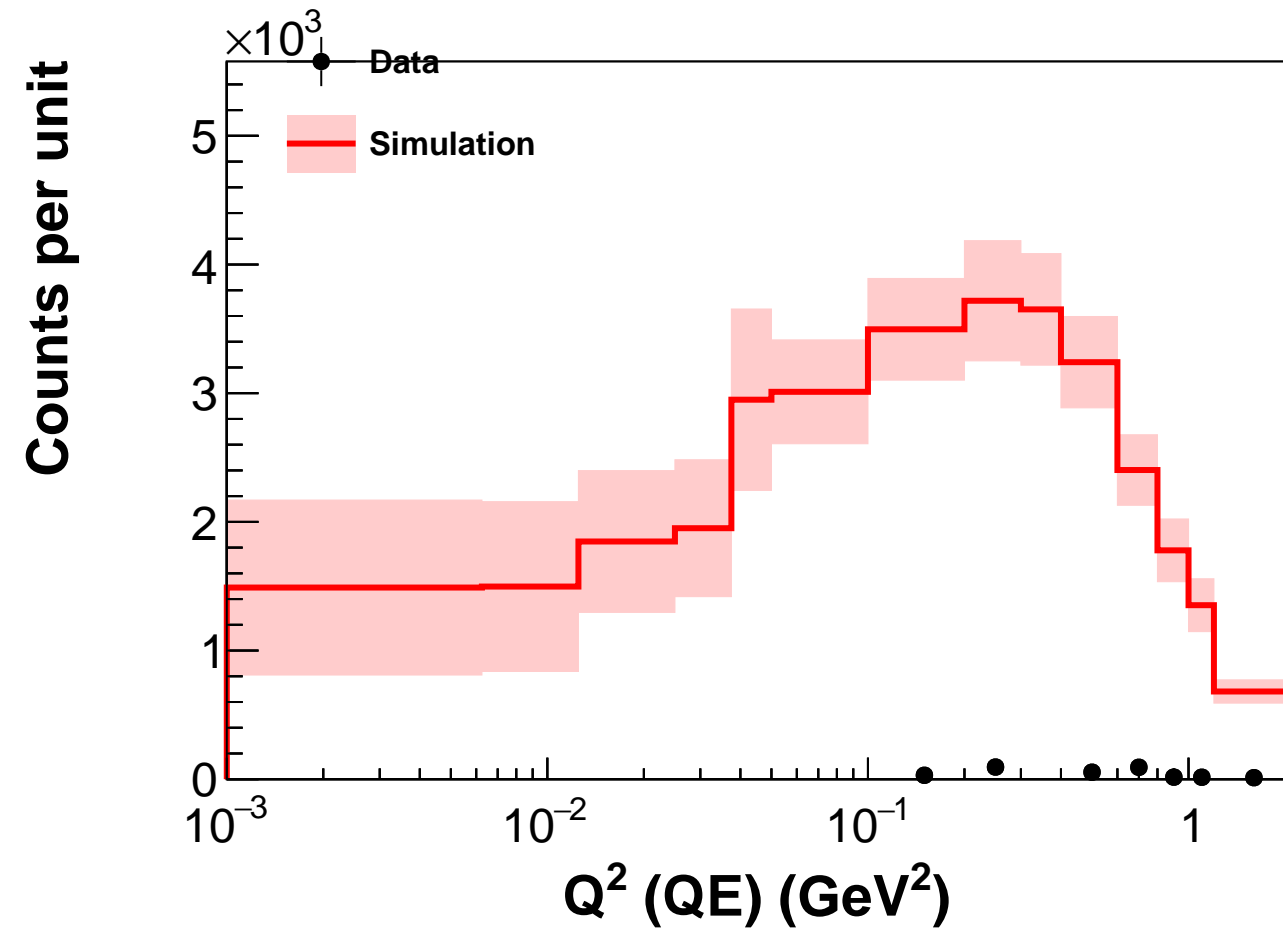
Geant

Genie Interaction Model

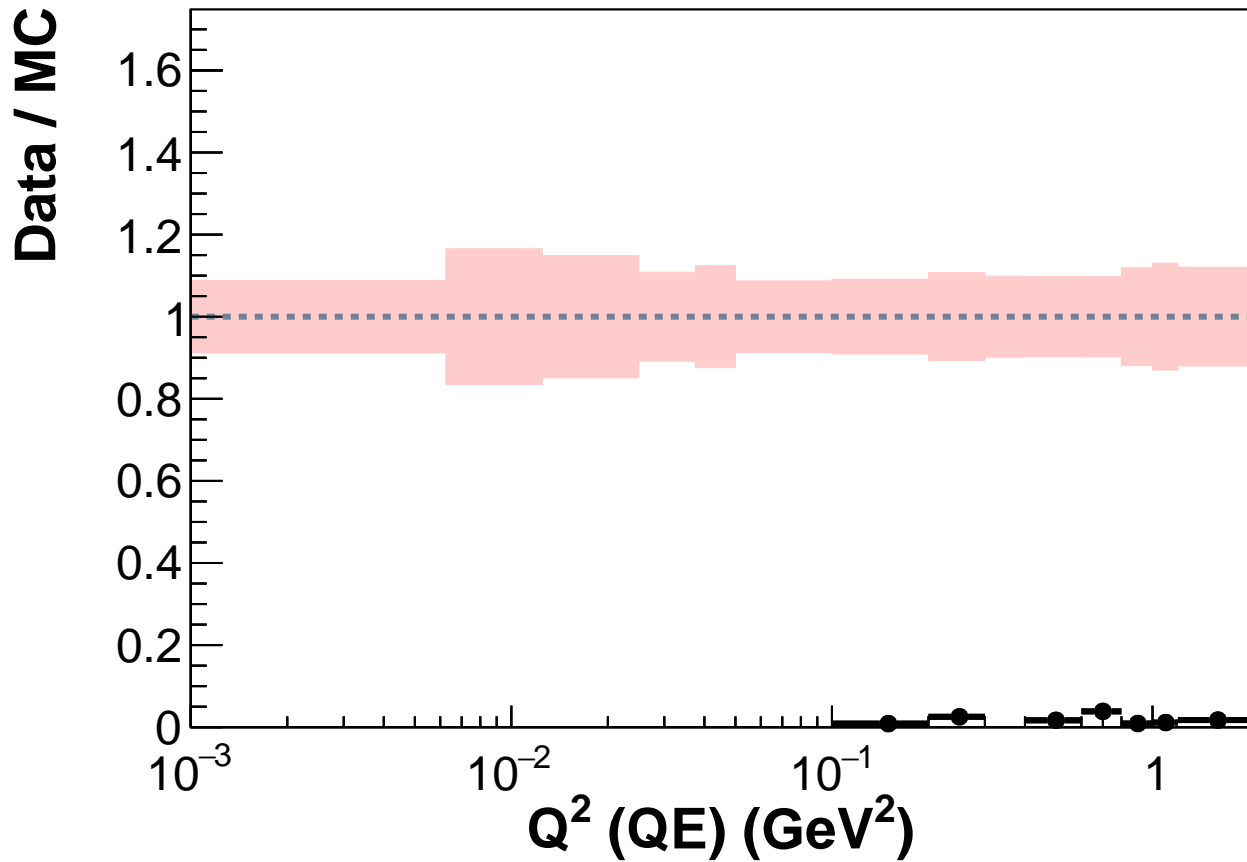
Muon Energy

Tune

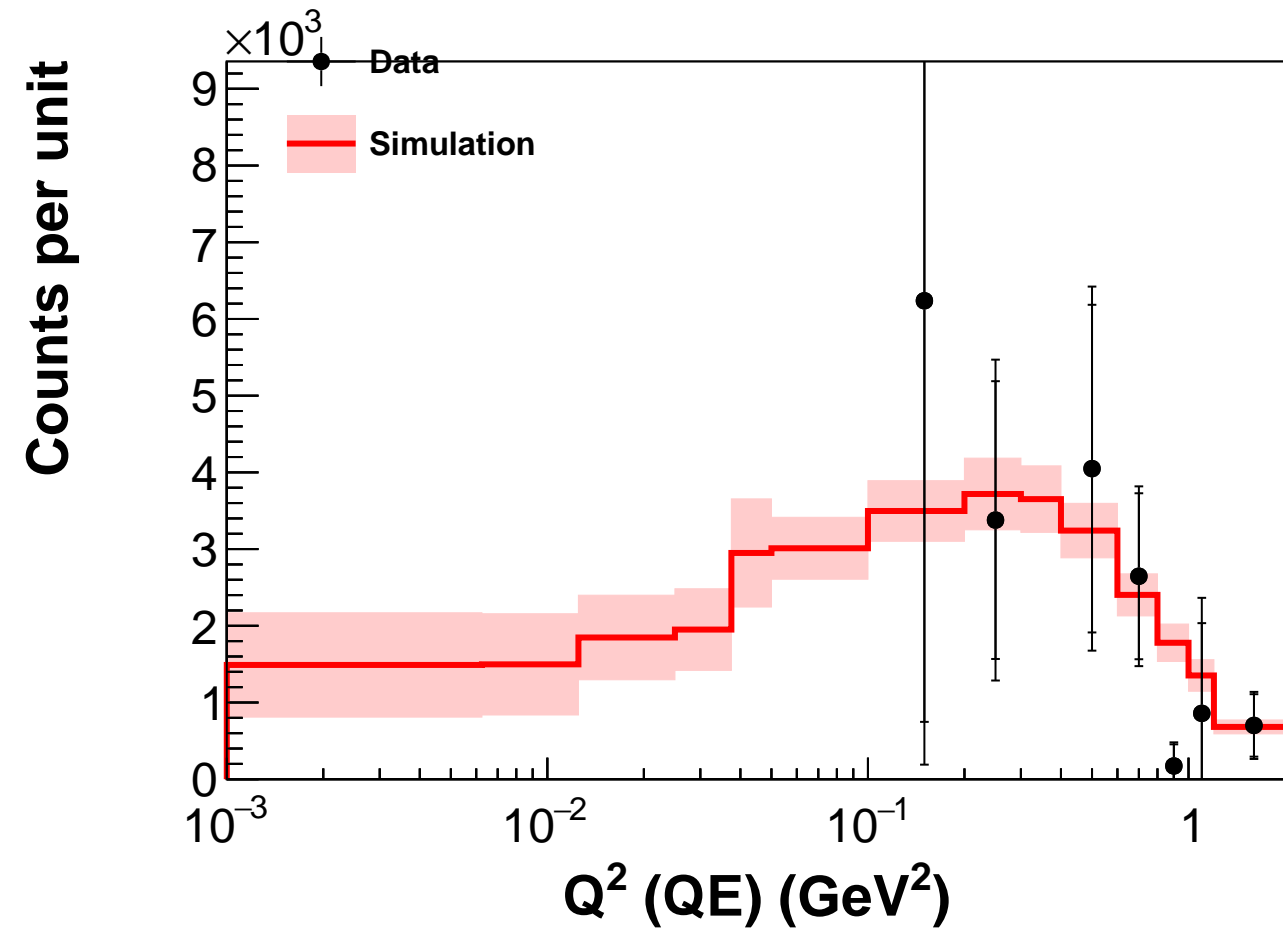
efficiency: selected and true



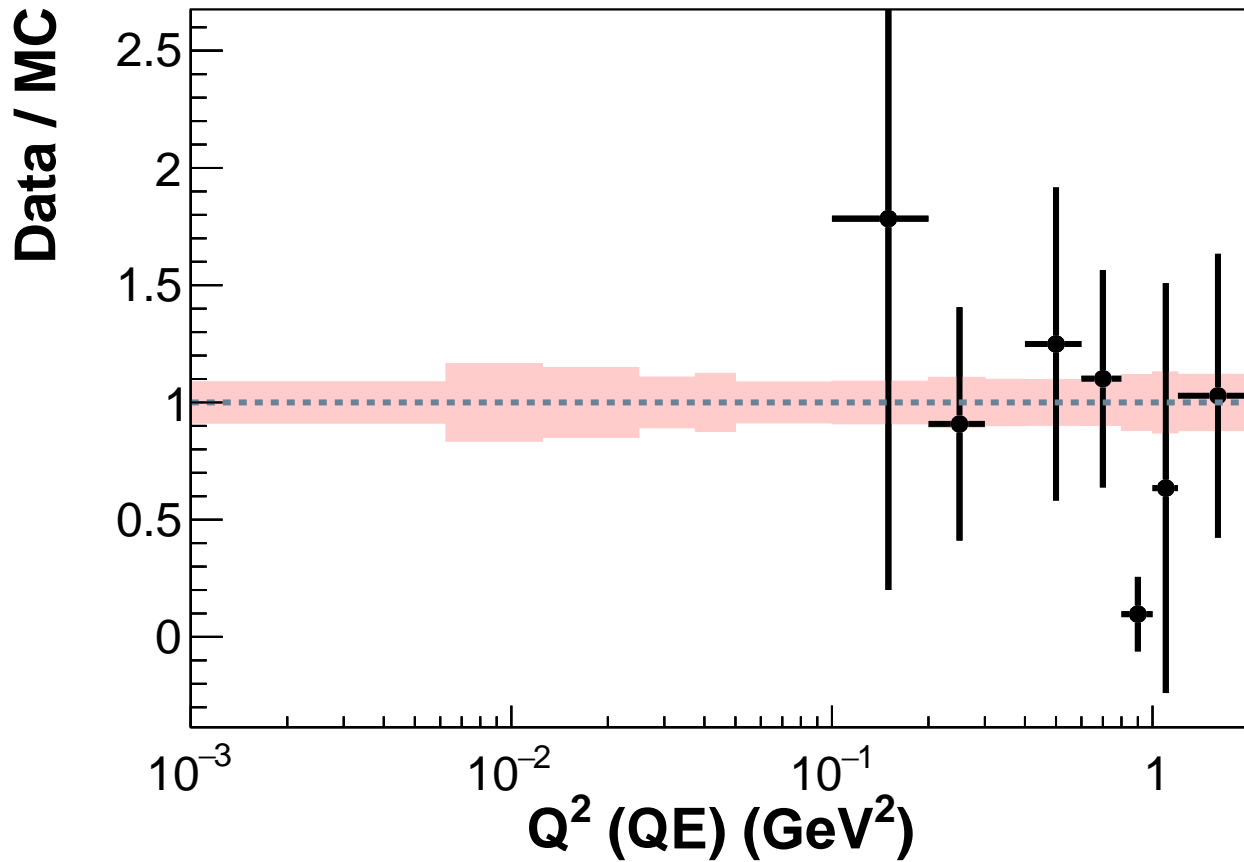
efficiency: selected and true



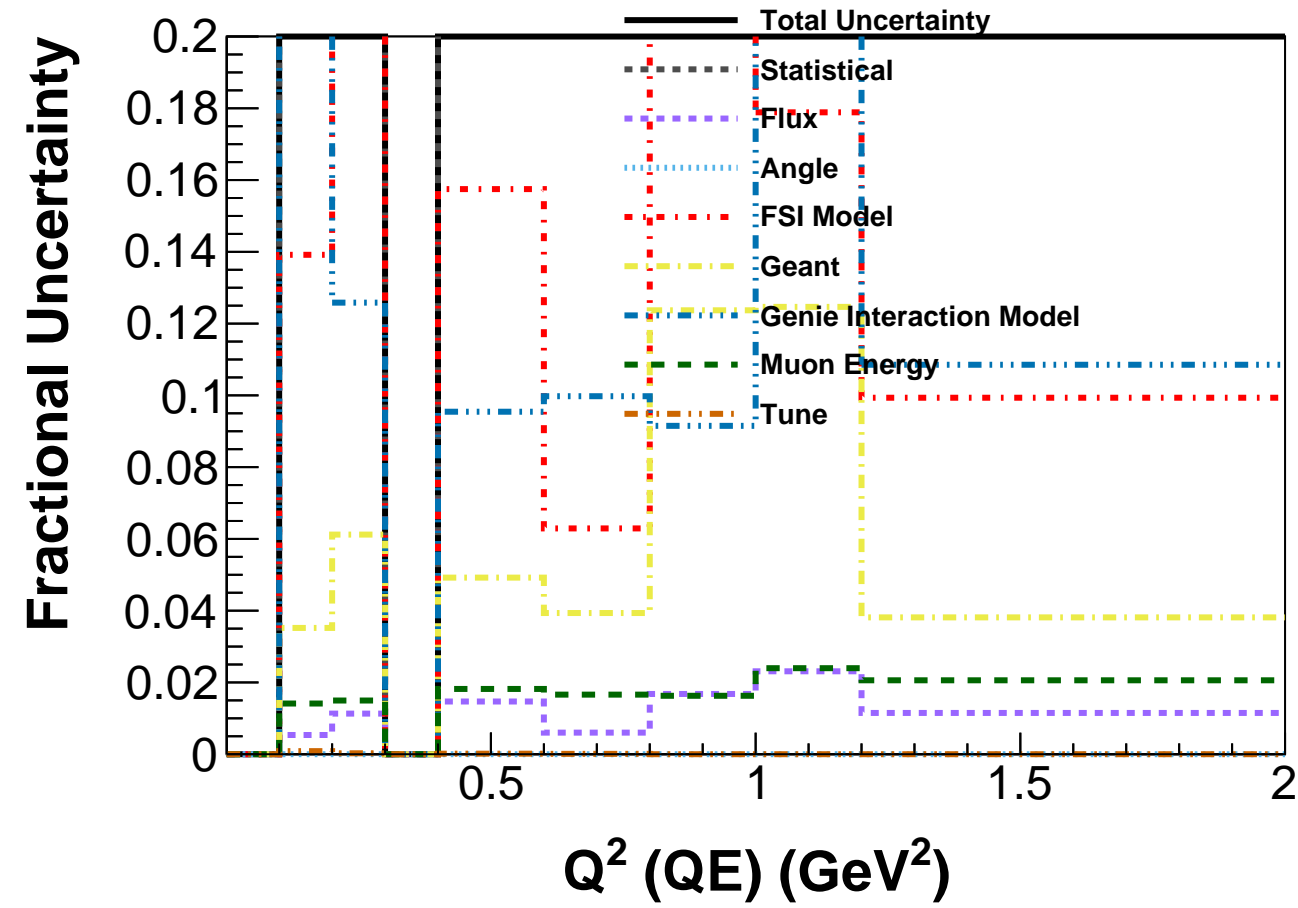
effcorr data vs truth



effcorr data vs truth



Efficiency Factor Systematics

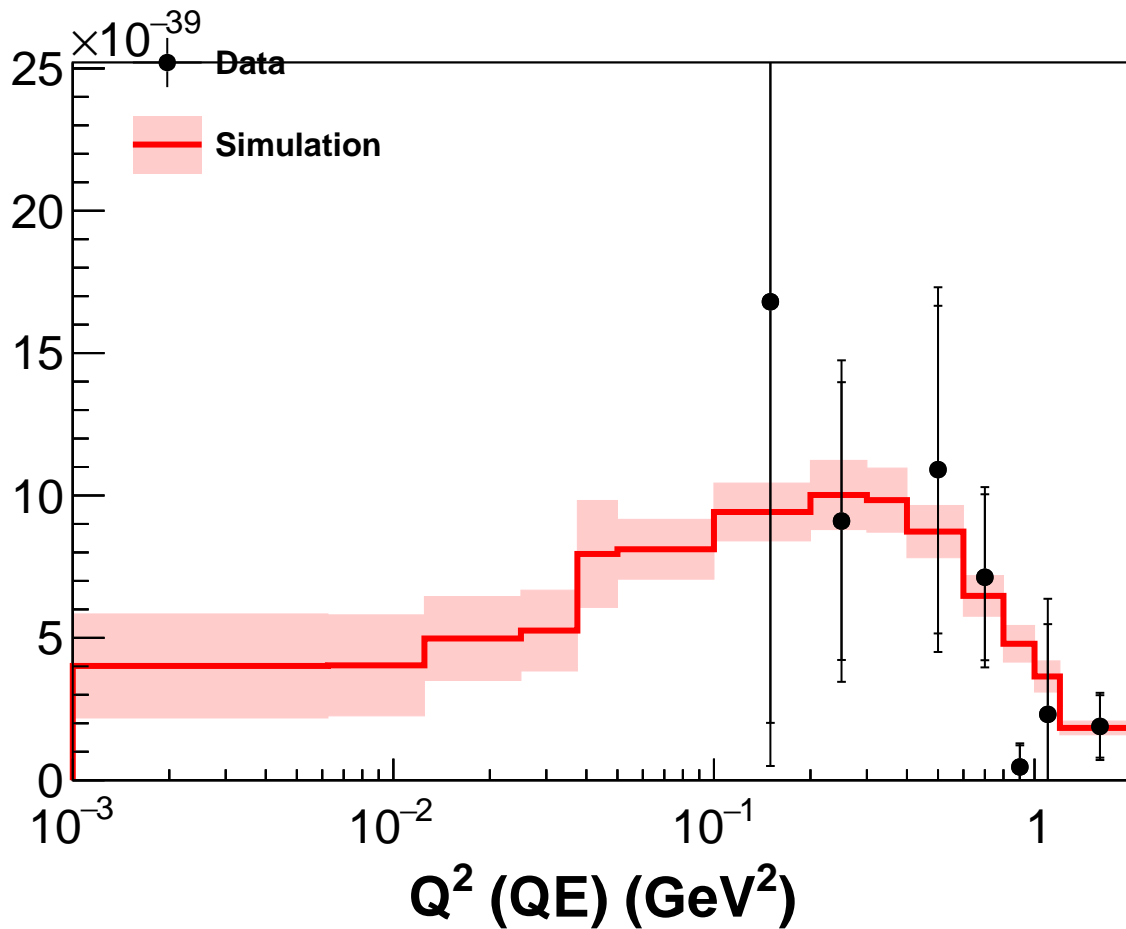


Efficiency Corrected Data Systematics

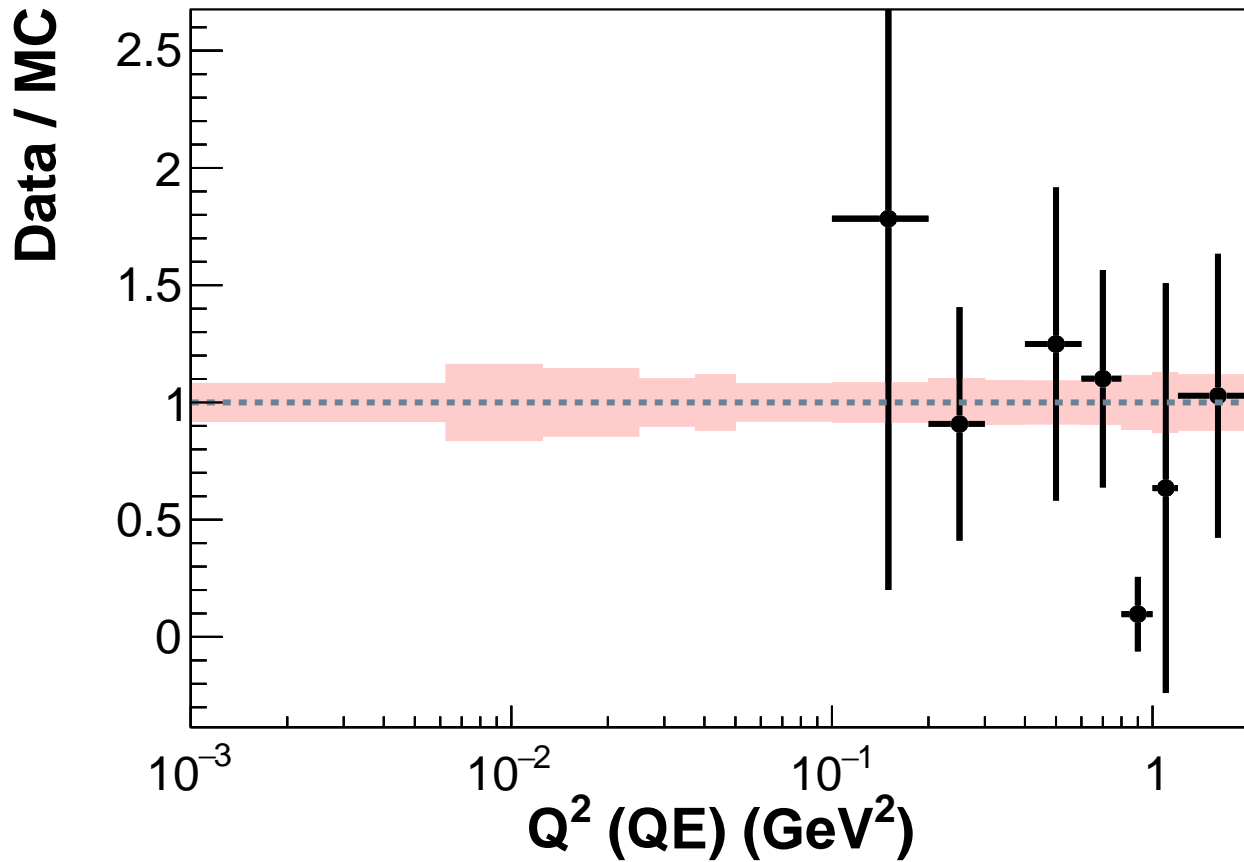


sigma

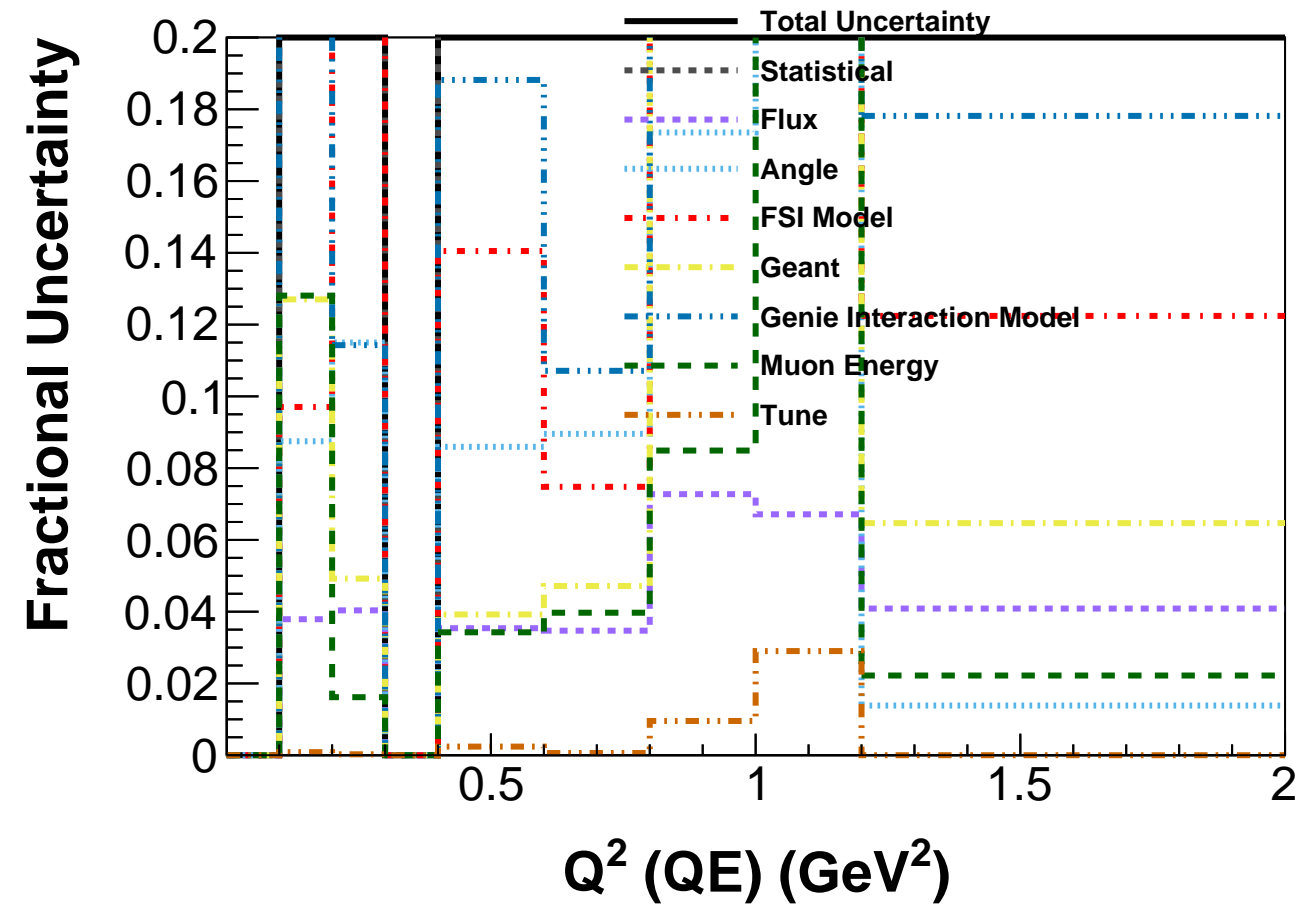
Counts per unit



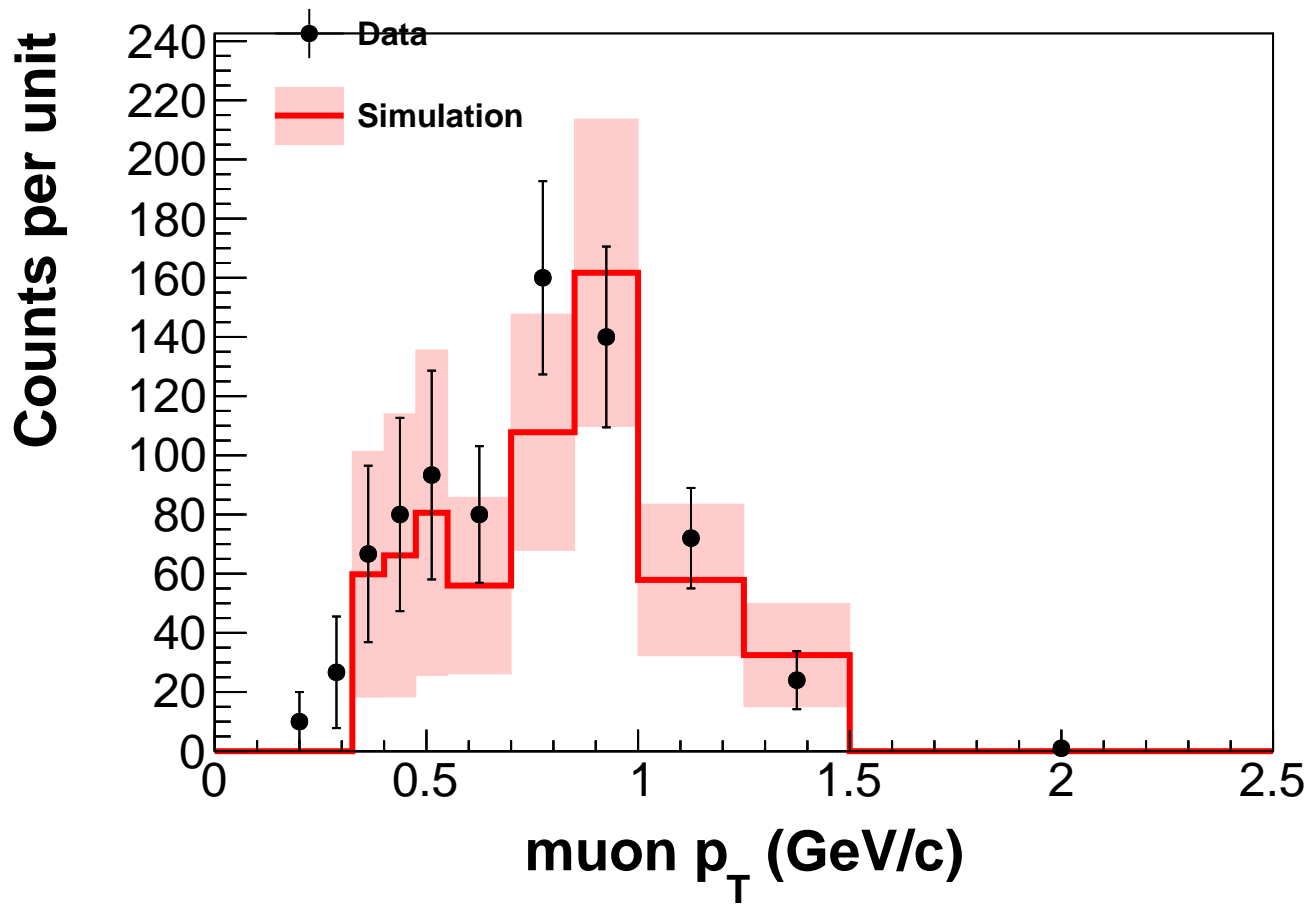
sigma



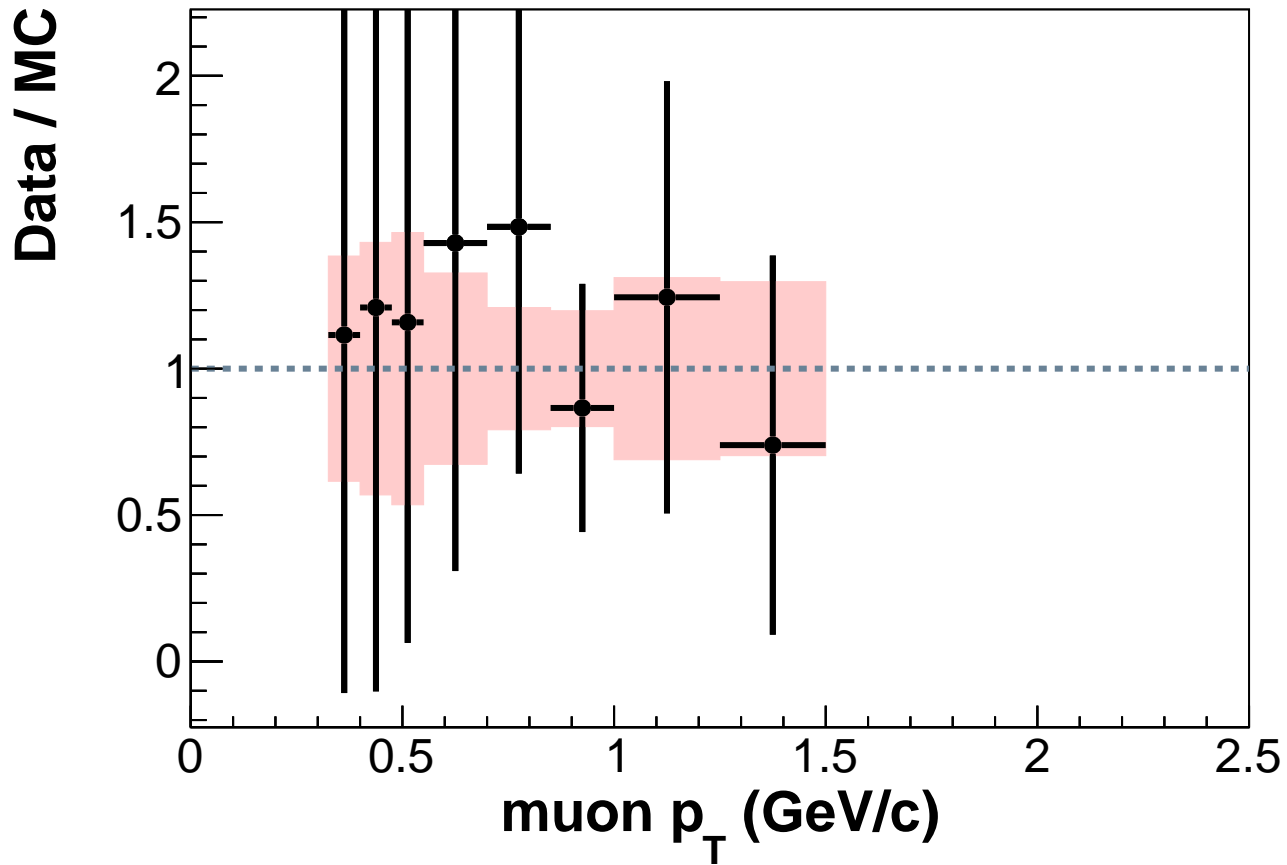
Cross Section Systematics



DATA_vs_MC

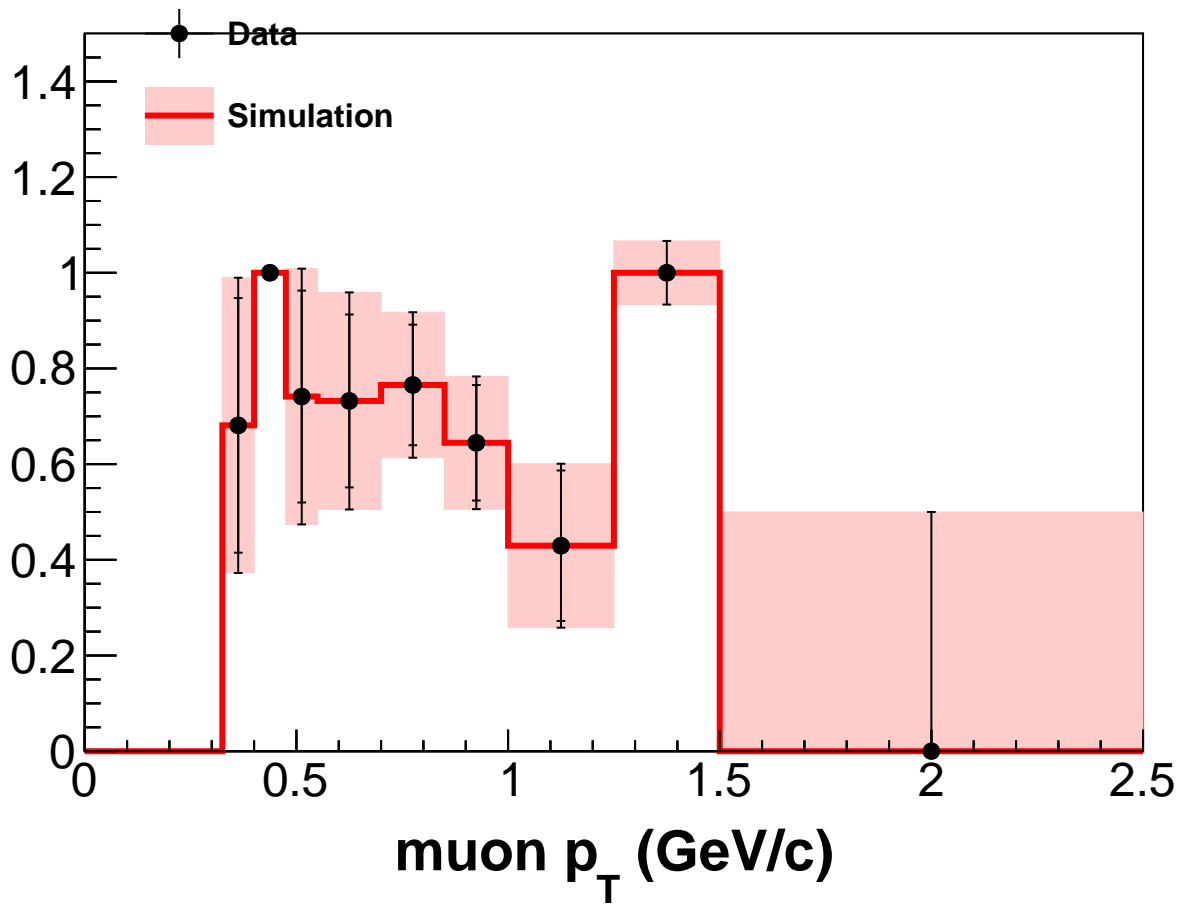


DATA_vs_MC

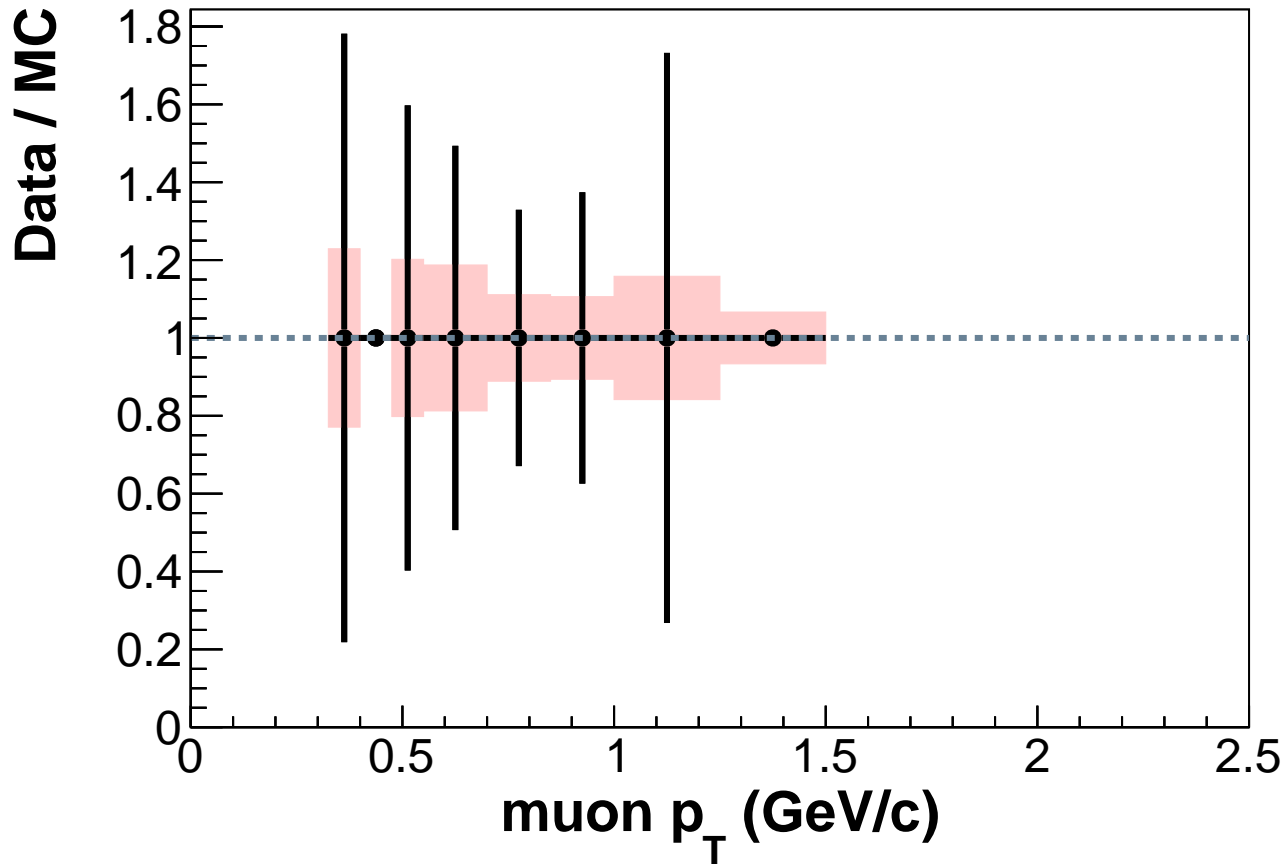


Signal Fraction

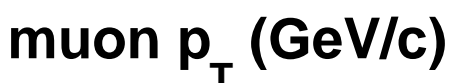
Counts per unit



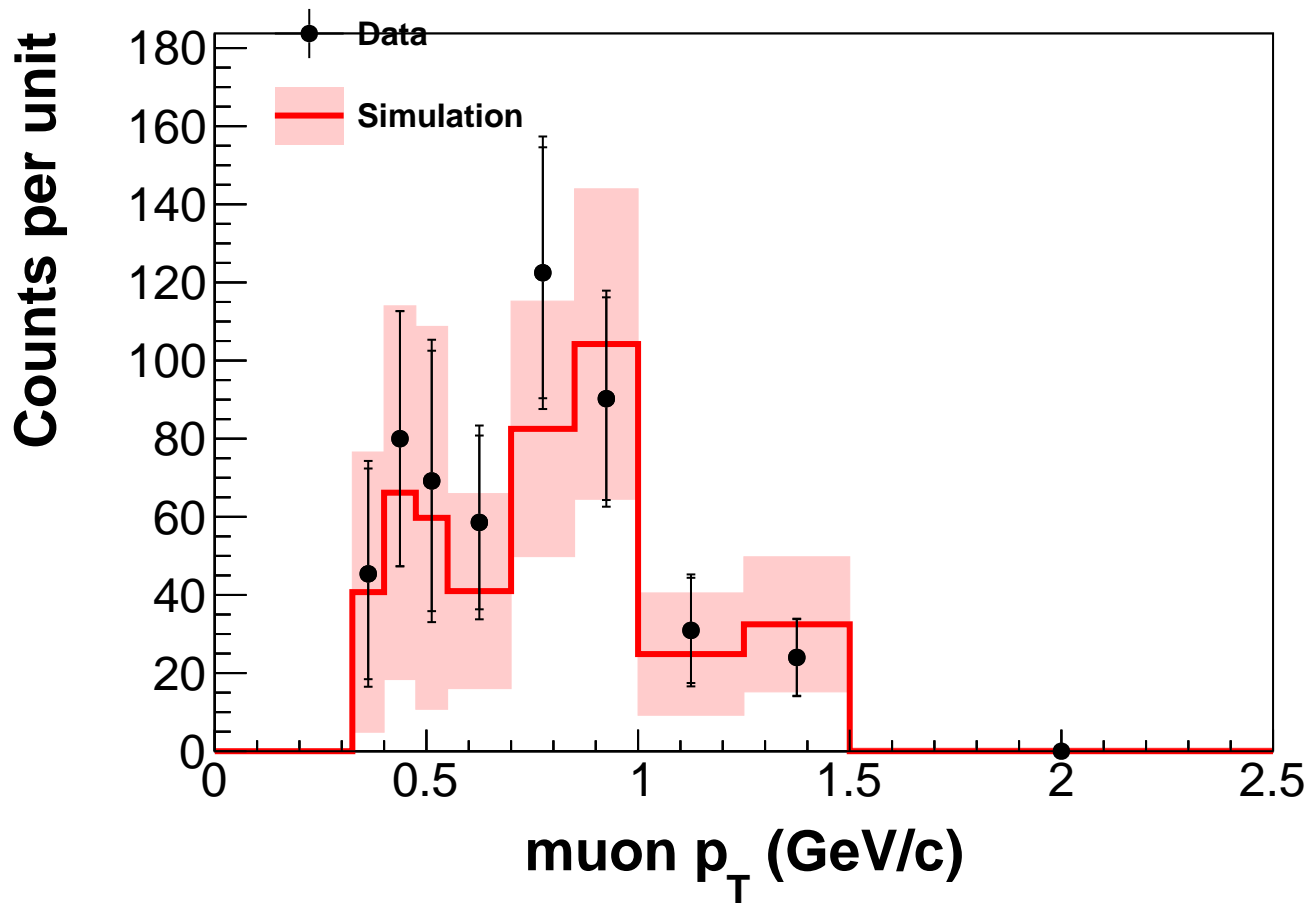
Signal Fraction



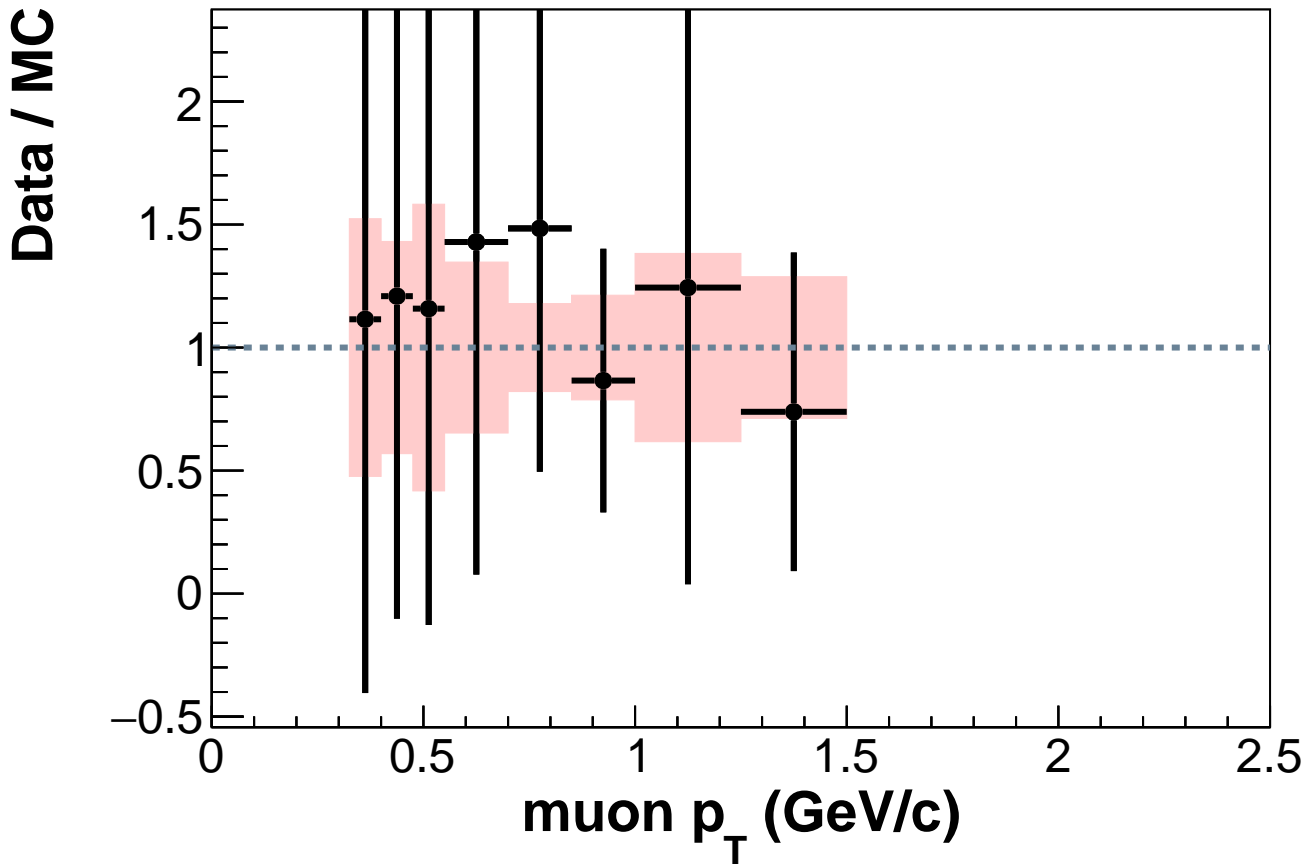
Signal Fraction Systematics



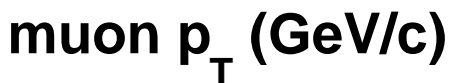
BKGsub vs. MC signal



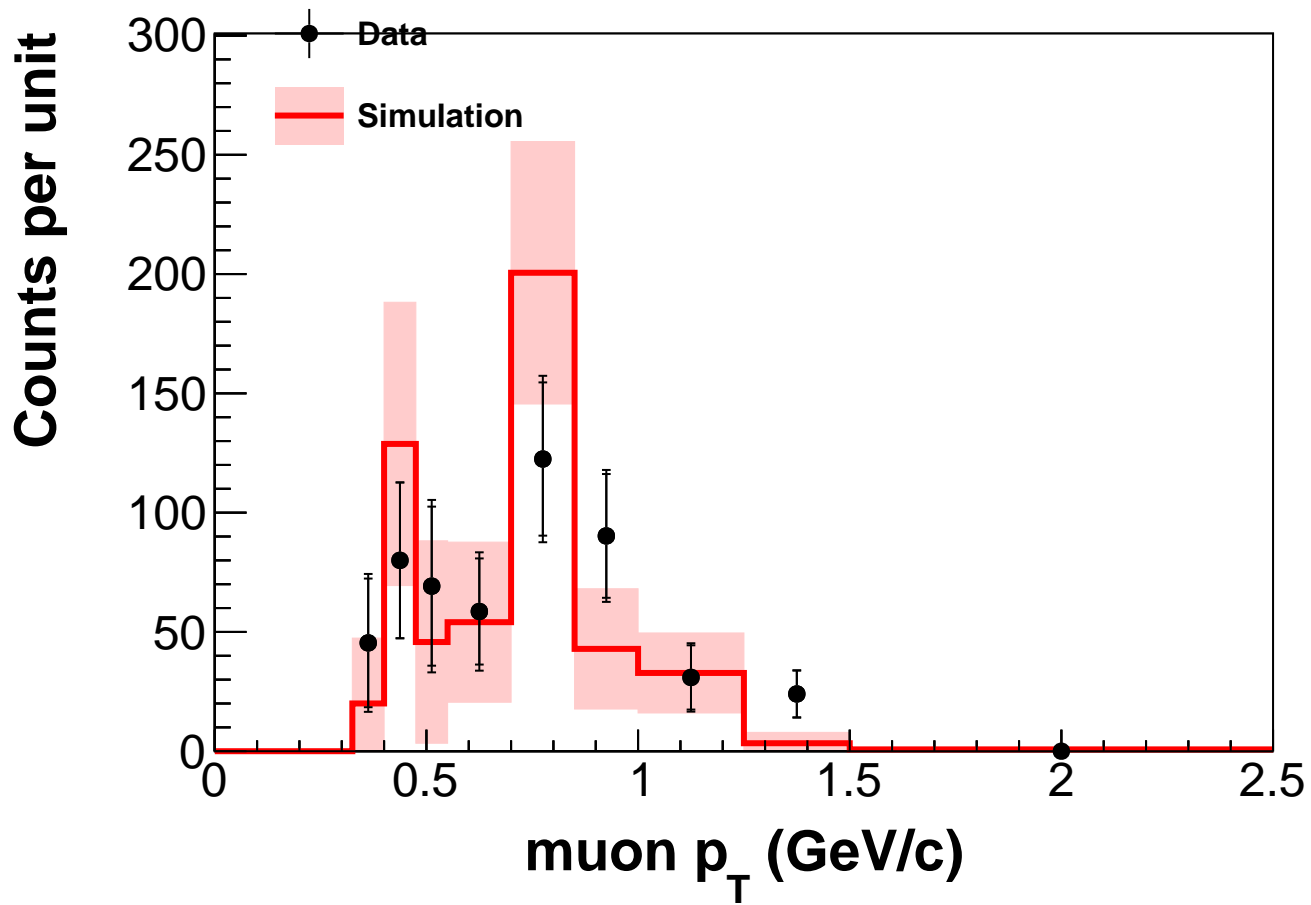
BKGsub vs. MC signal



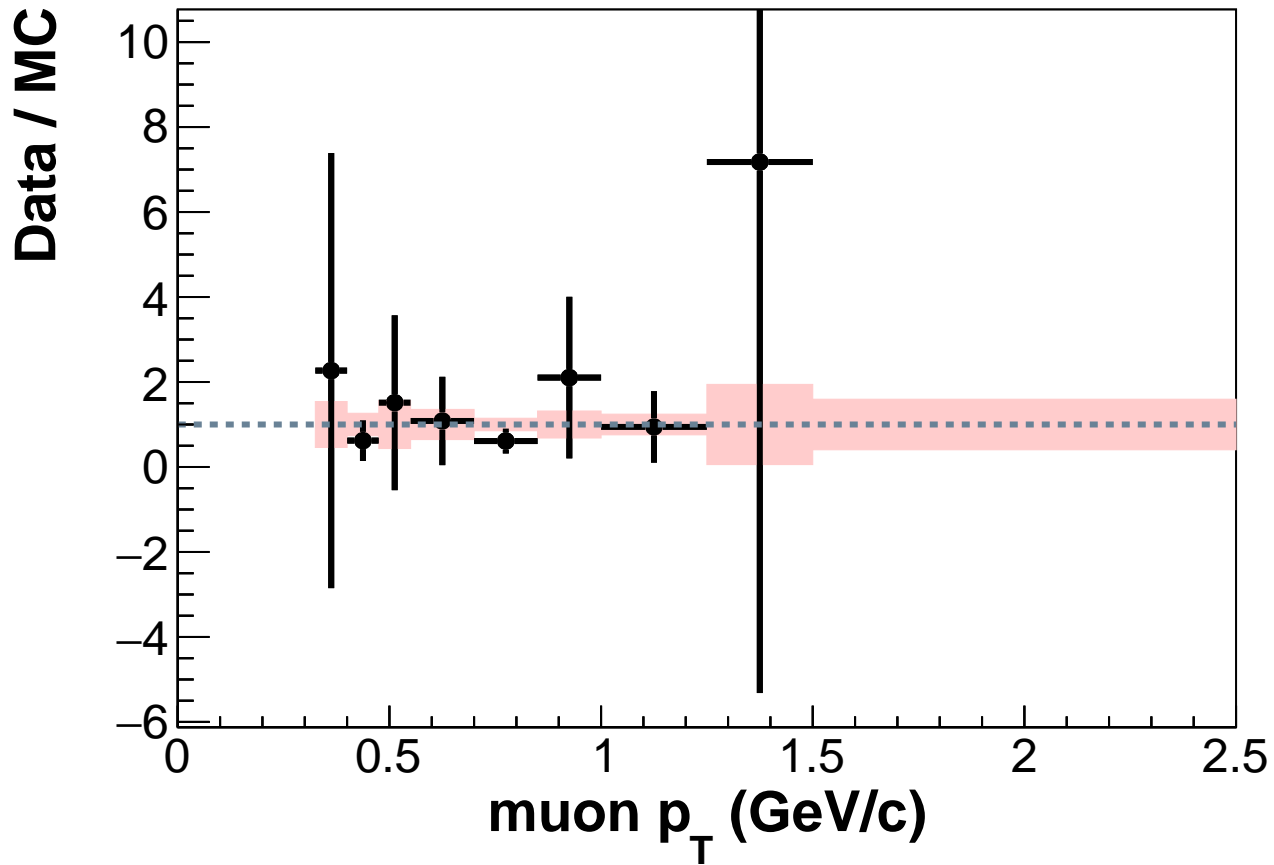
BKGsub Systematics



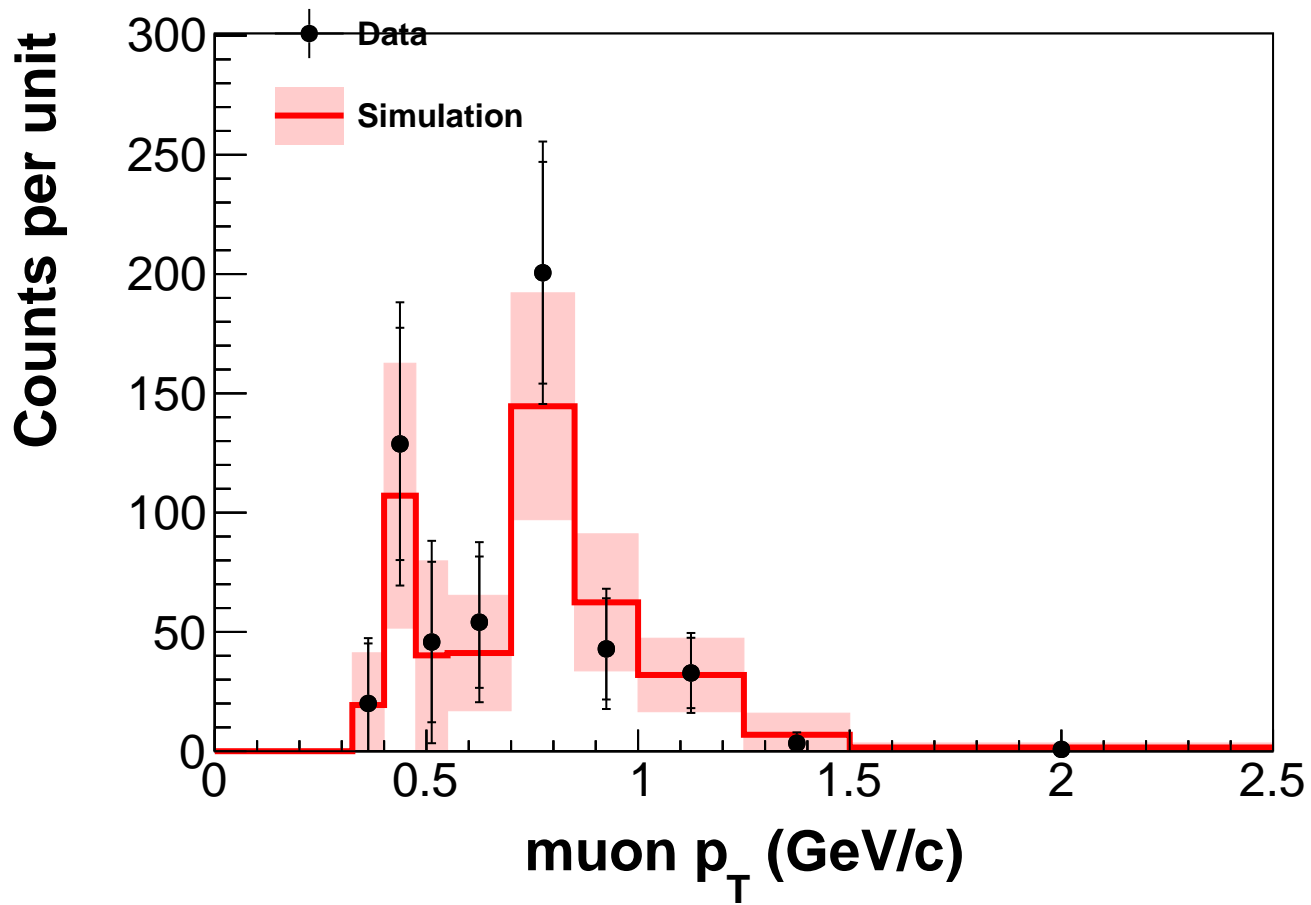
Data Before and After Unsmearing



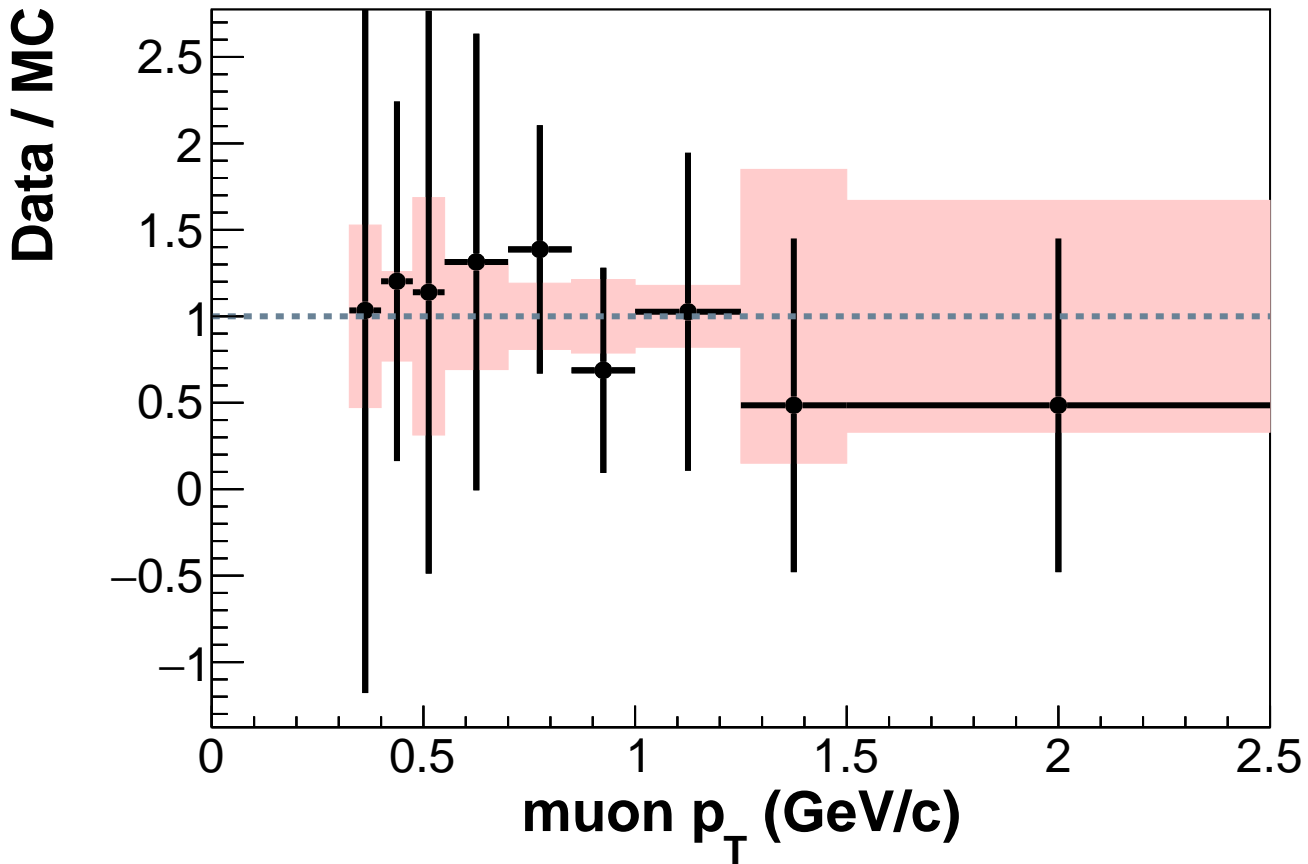
Data Before and After Unsmearing



Unsmearred Data Compared to Selected MC



Unsmeared Data Compared to Selected MC



Unsmeared Data Systematics



Statistical

Flux

Angle

FSI Model

Geant

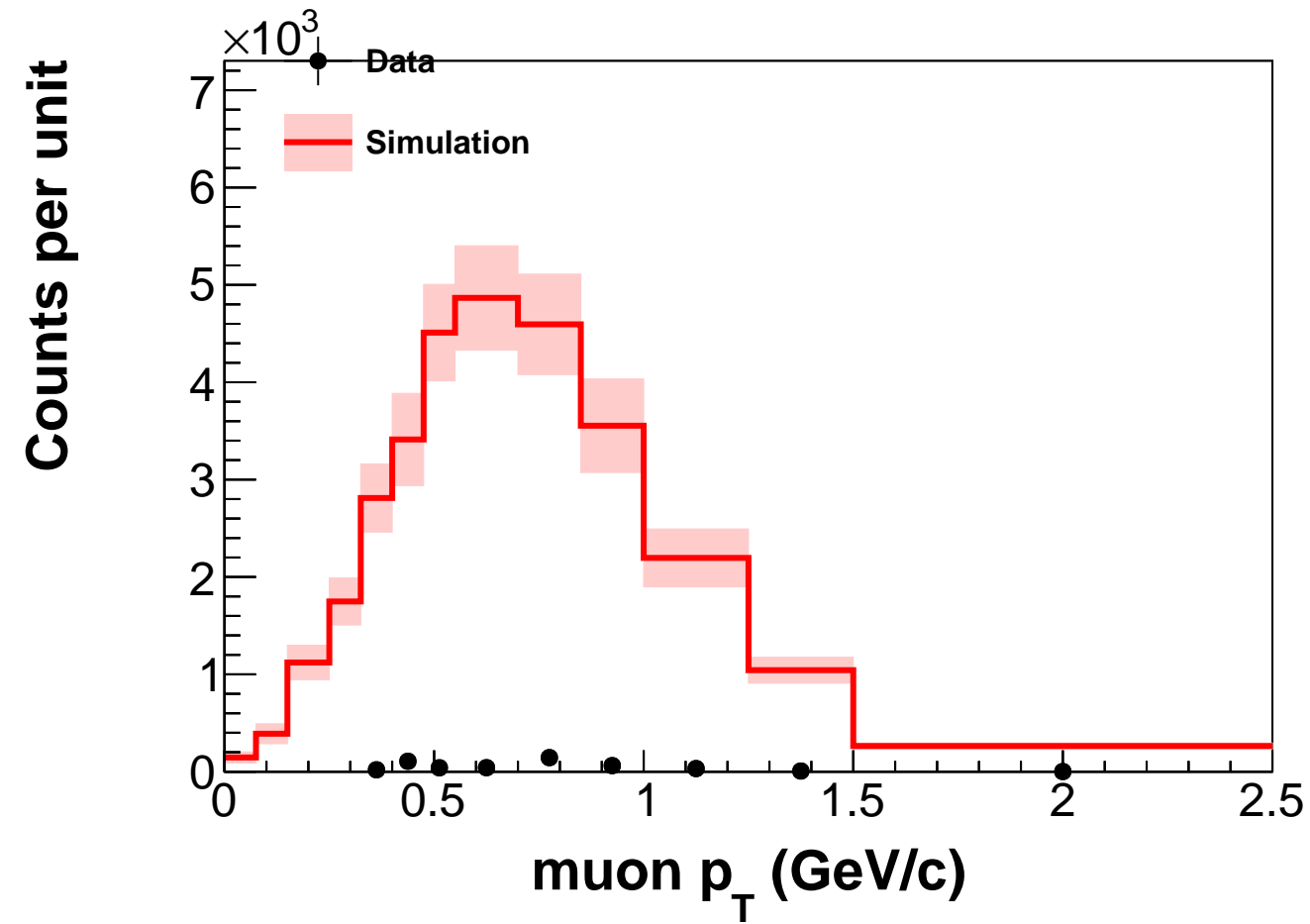
Genie Interaction Model

Muon Energy

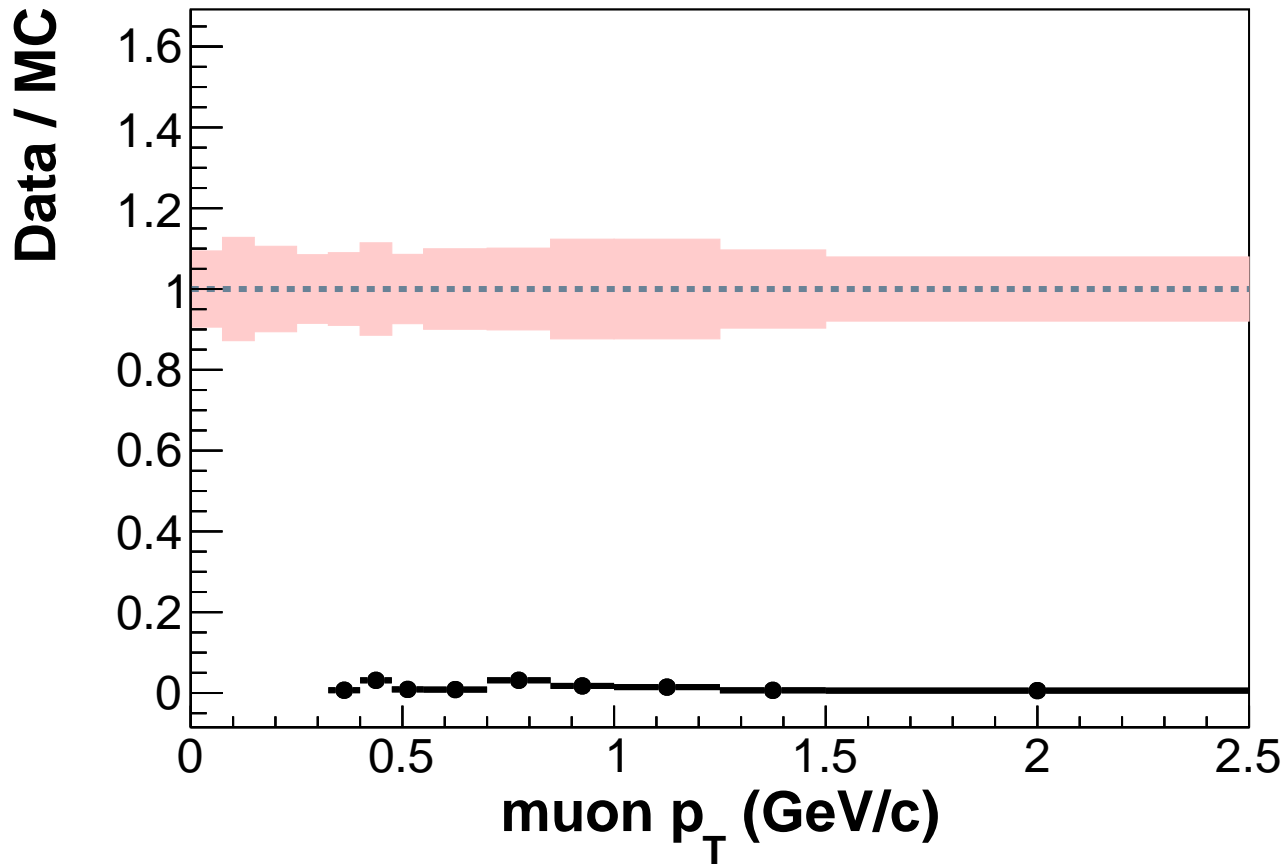
Tune

muon p_T (GeV/c)

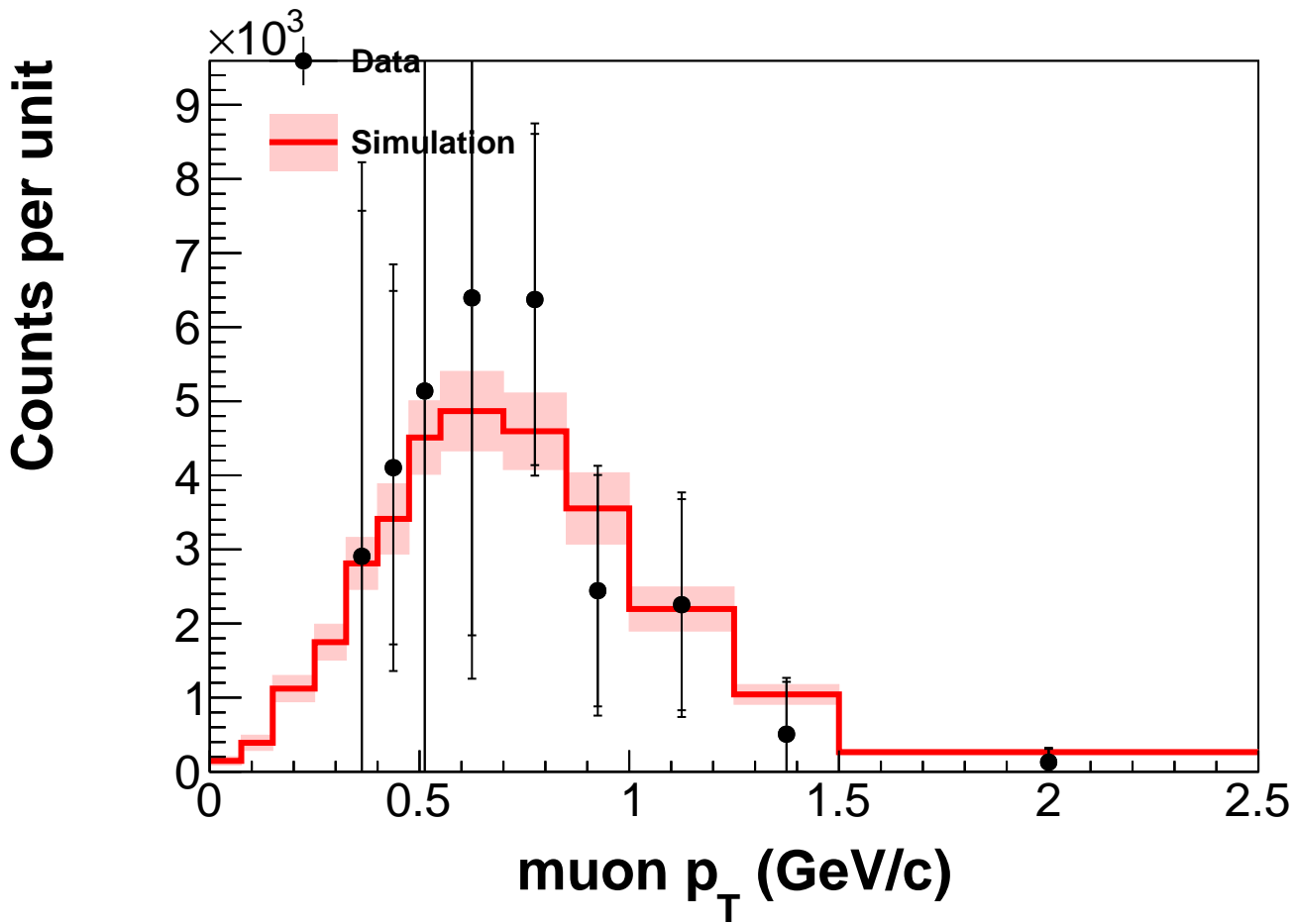
efficiency: selected and true



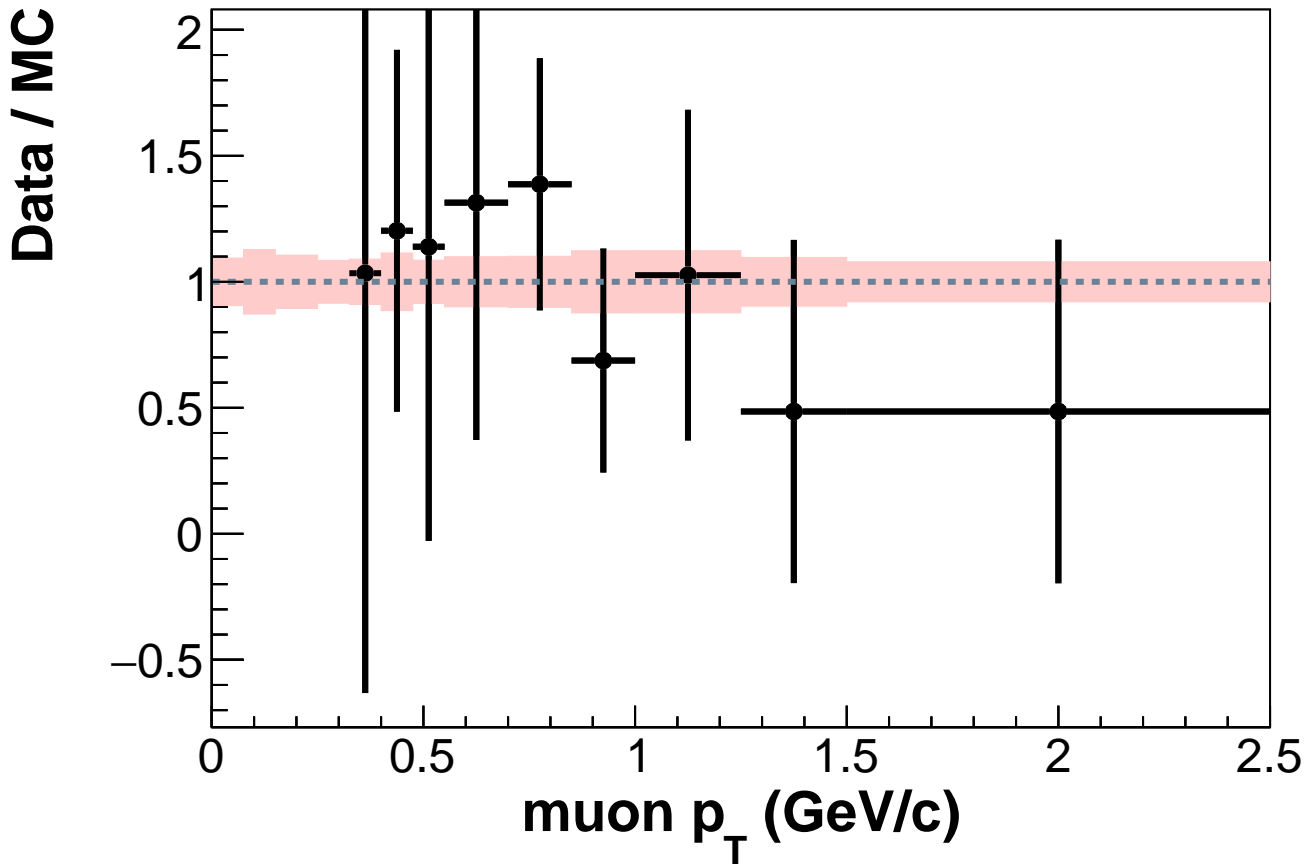
efficiency: selected and true



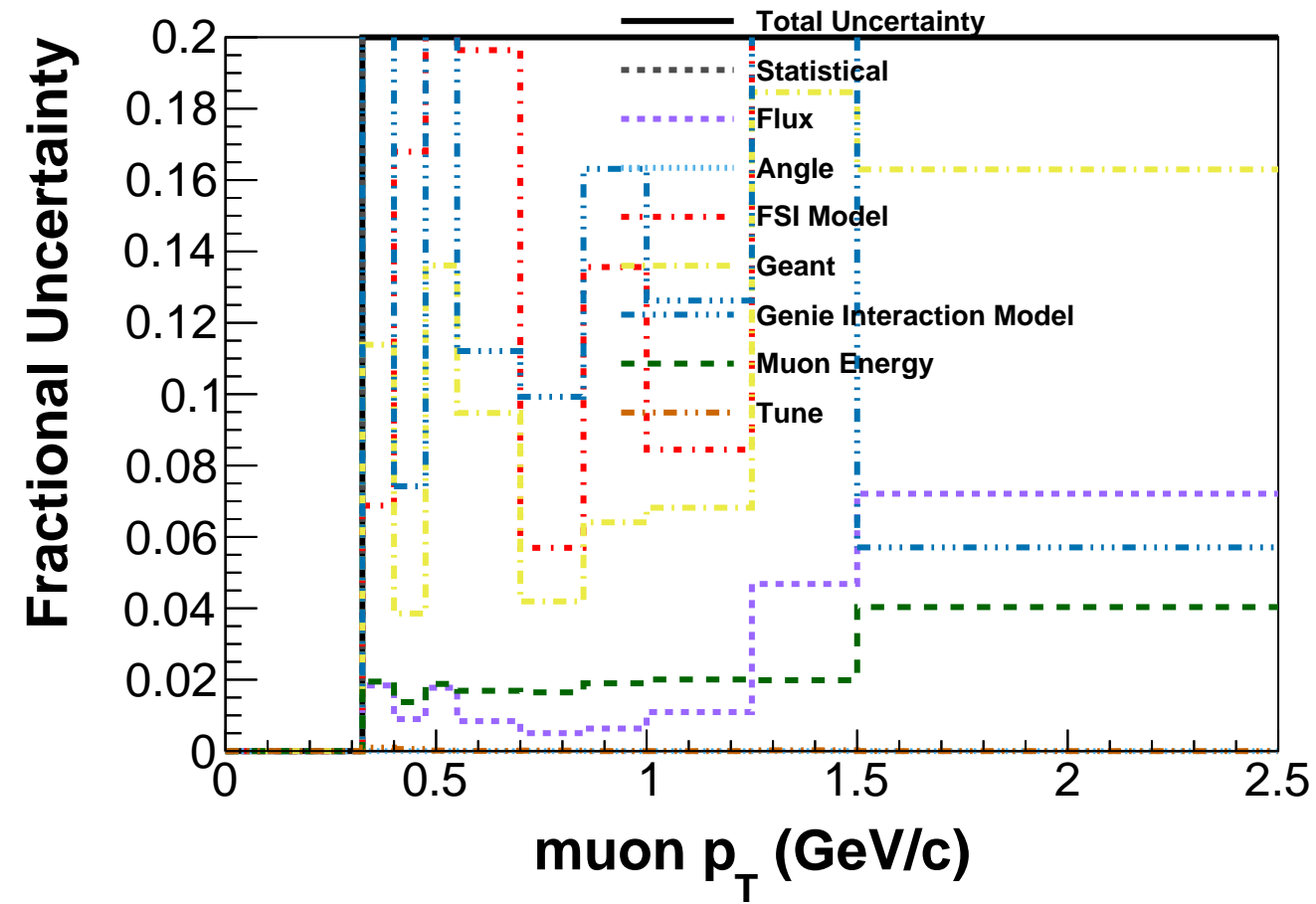
effcorr data vs truth



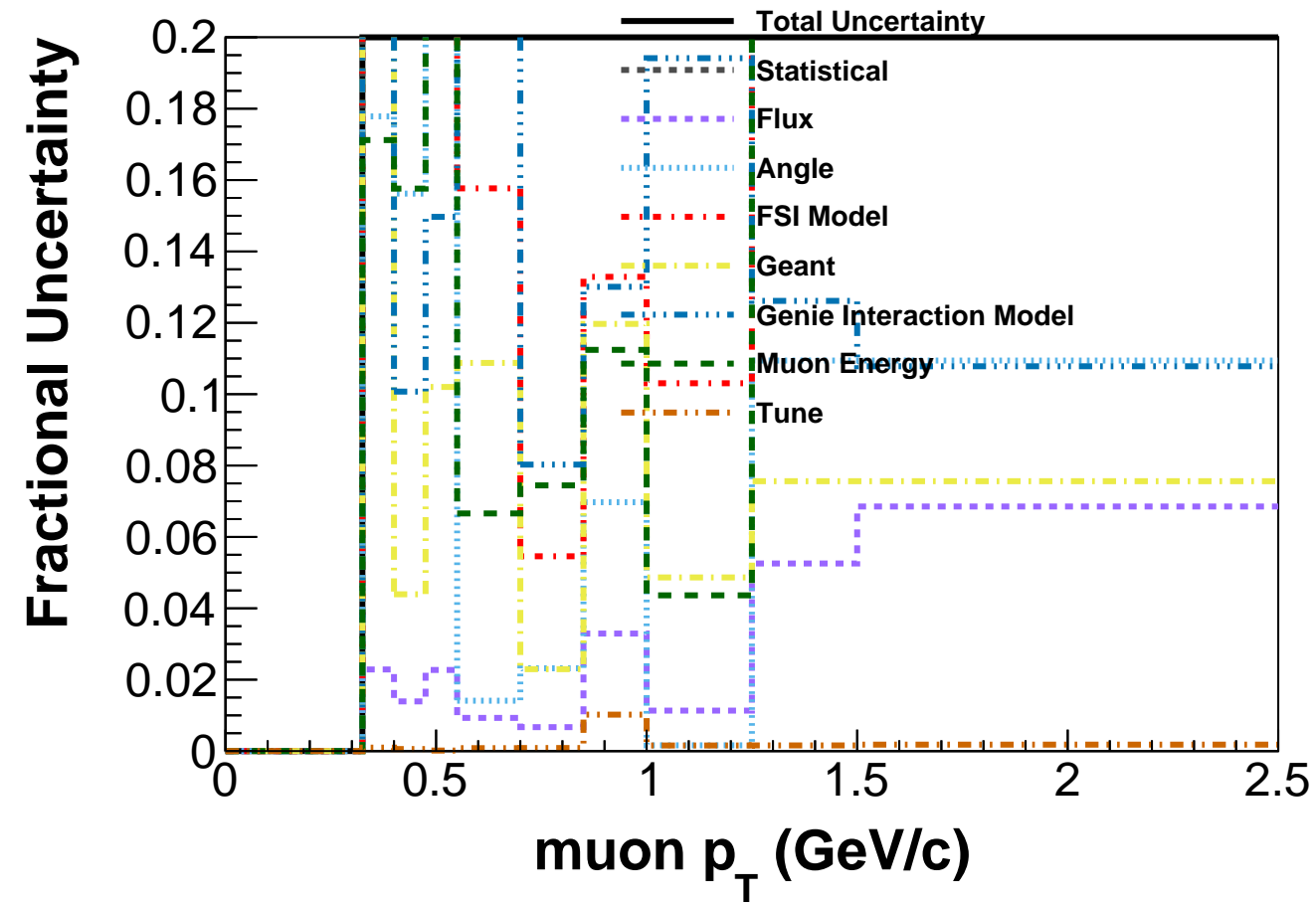
effcorr data vs truth



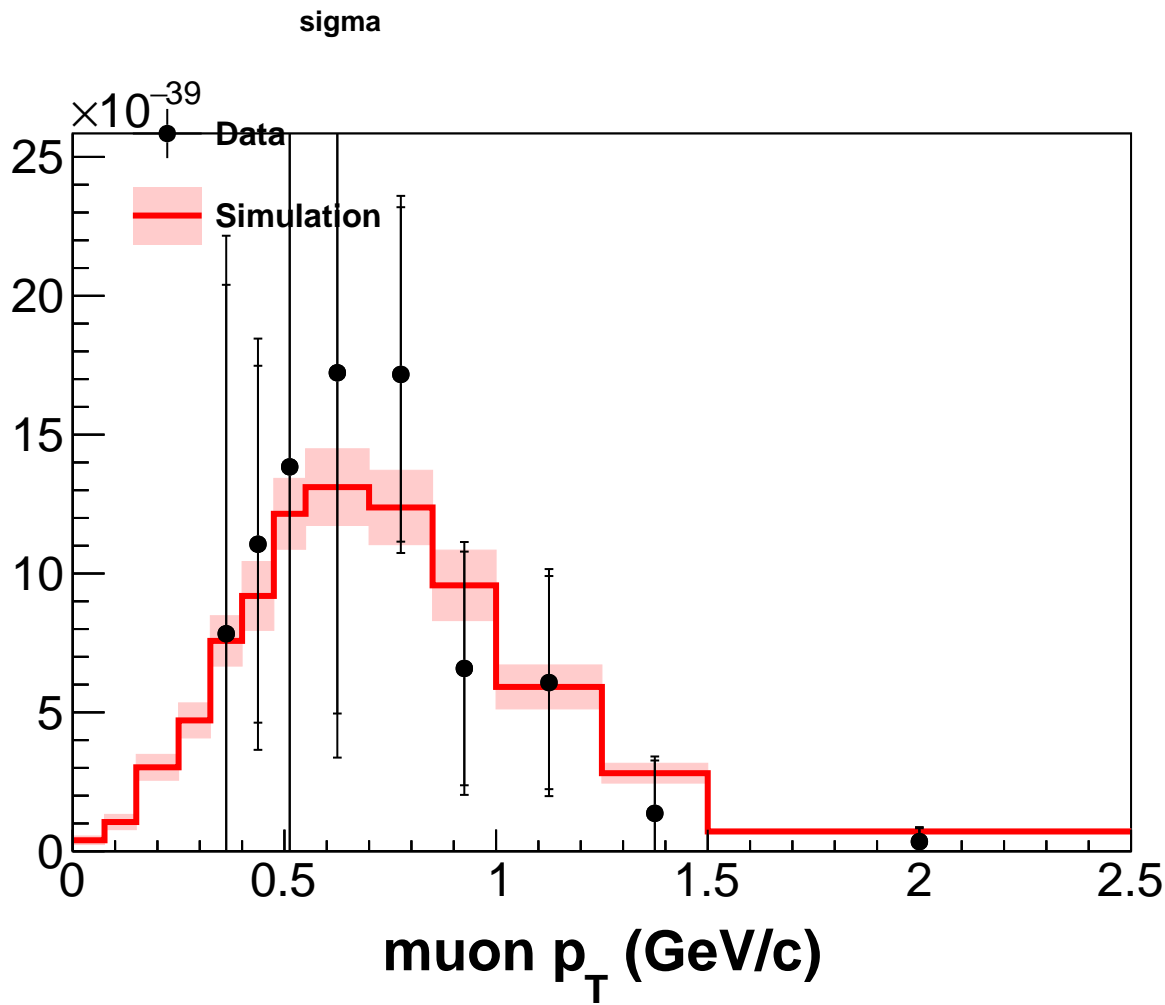
Efficiency Factor Systematics



Efficiency Corrected Data Systematics

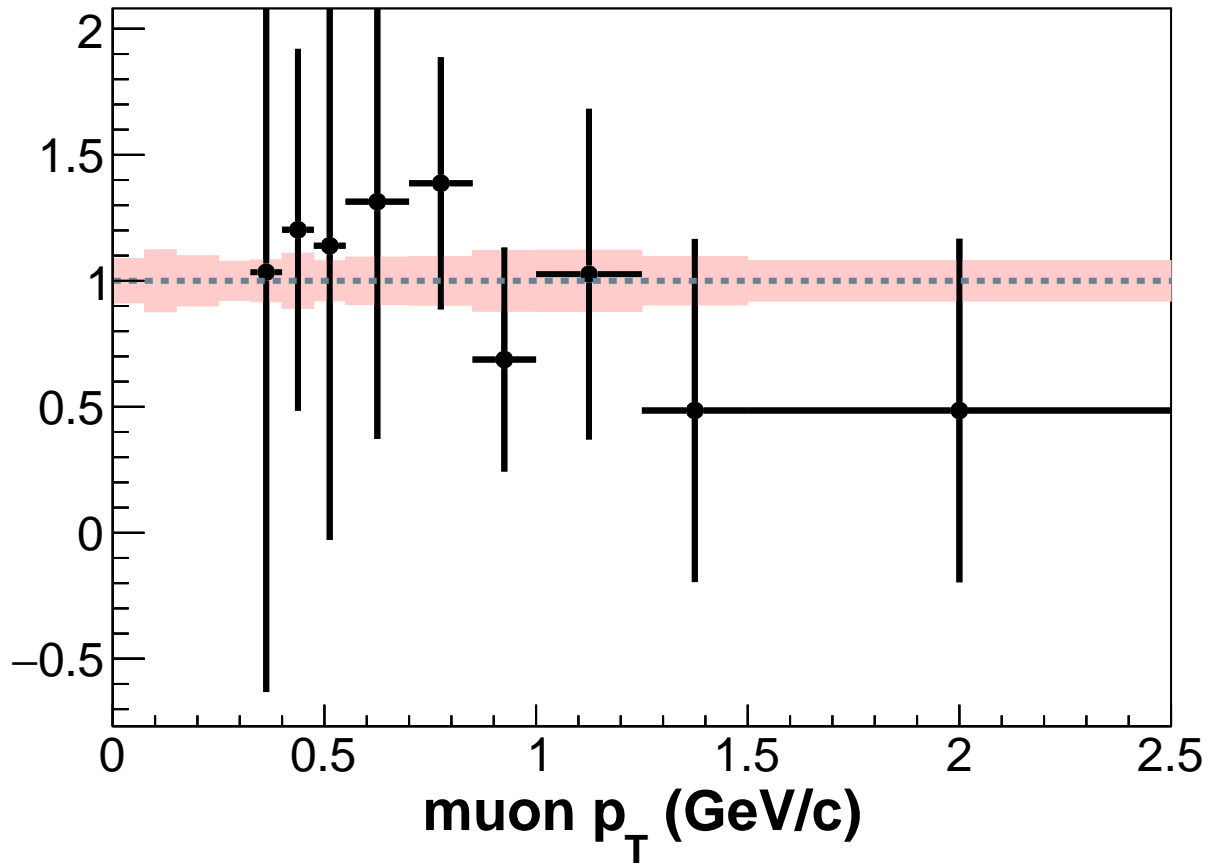


Counts per unit

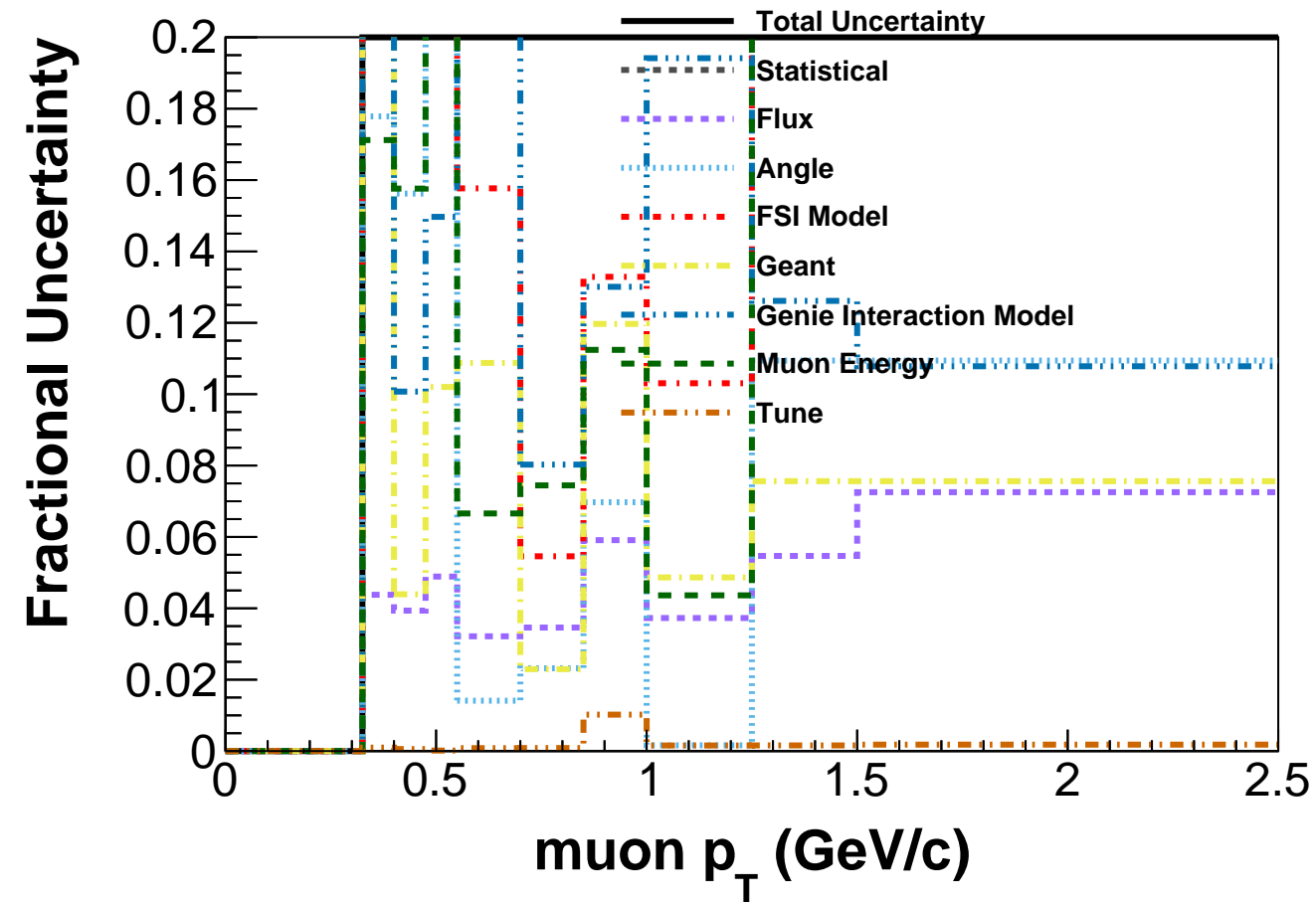


Data / MC

sigma

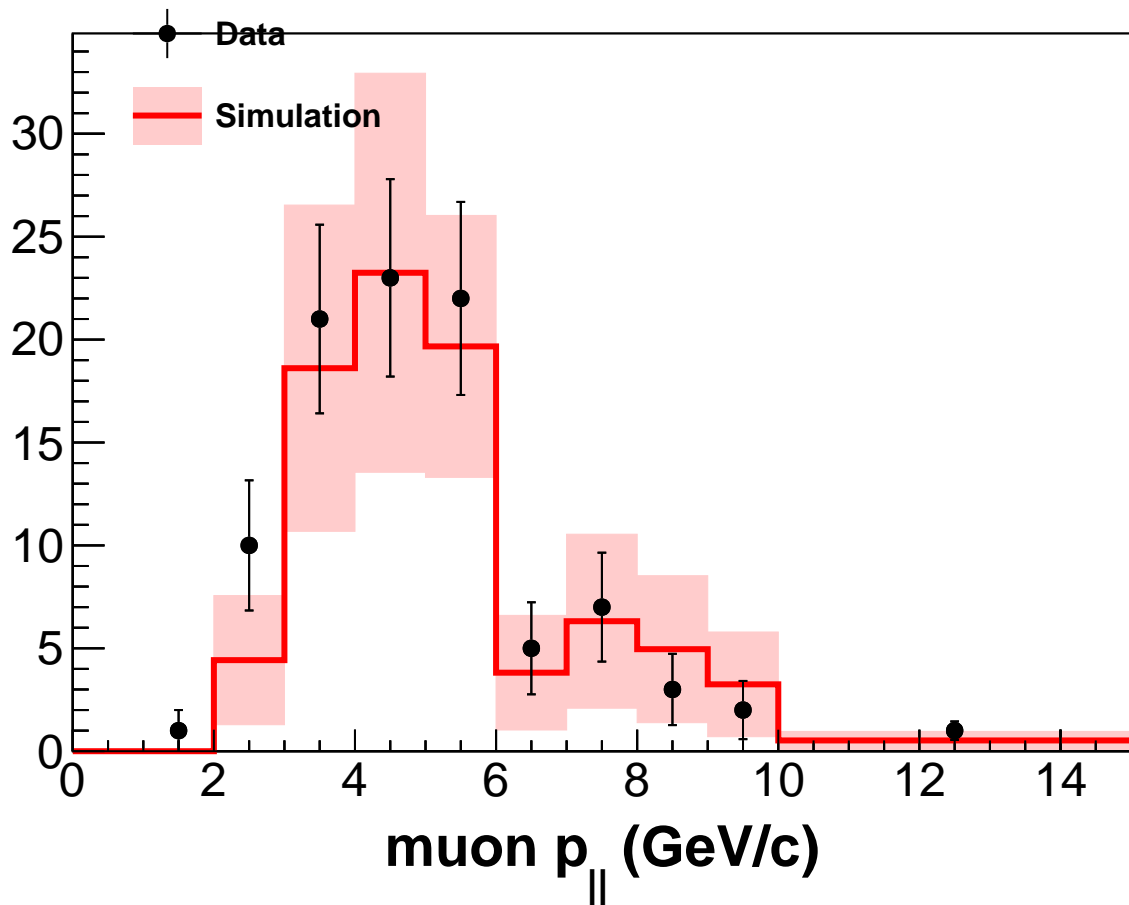


Cross Section Systematics

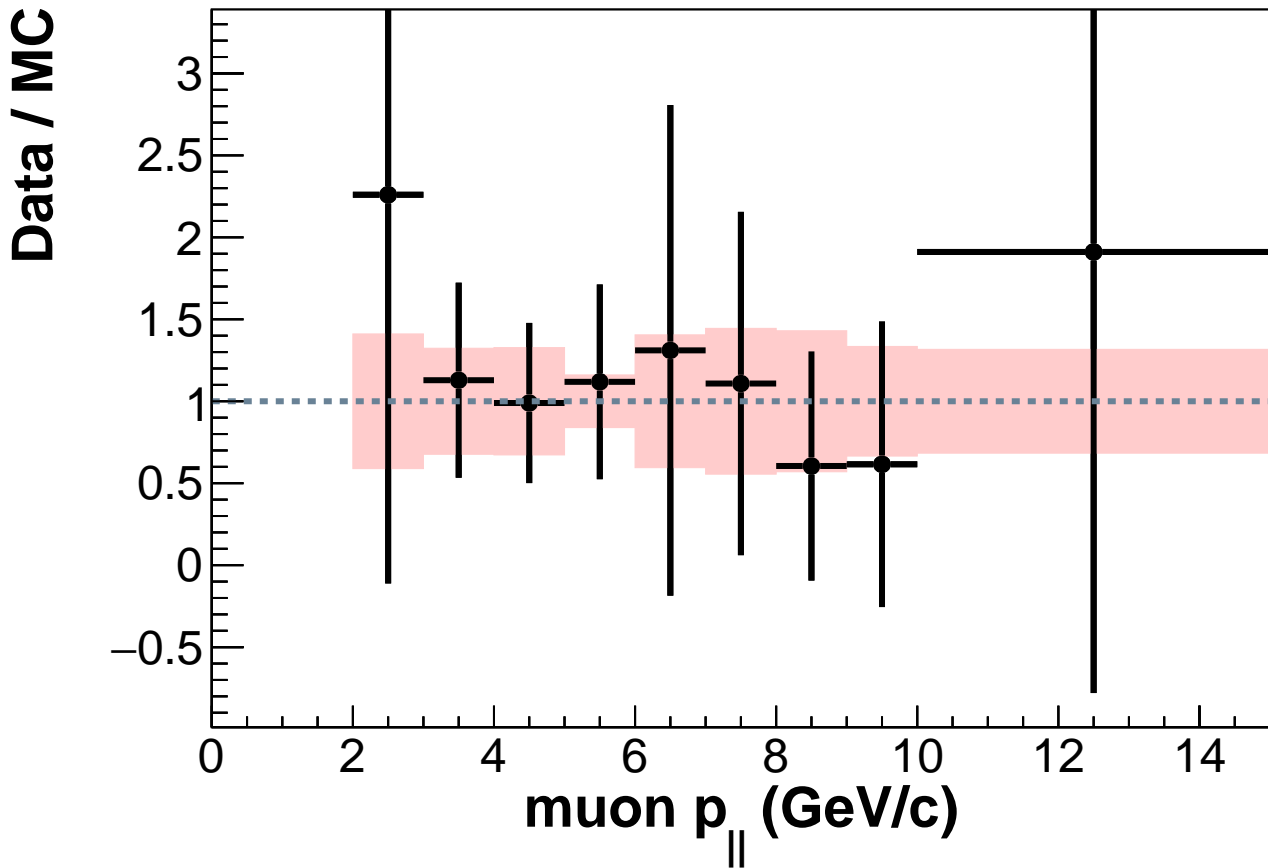


DATA_vs_MC

Counts per unit



DATA_vs_MC



Raw MC Systematics



Total Uncertainty

Statistical

Flux

Angle

FSI Model

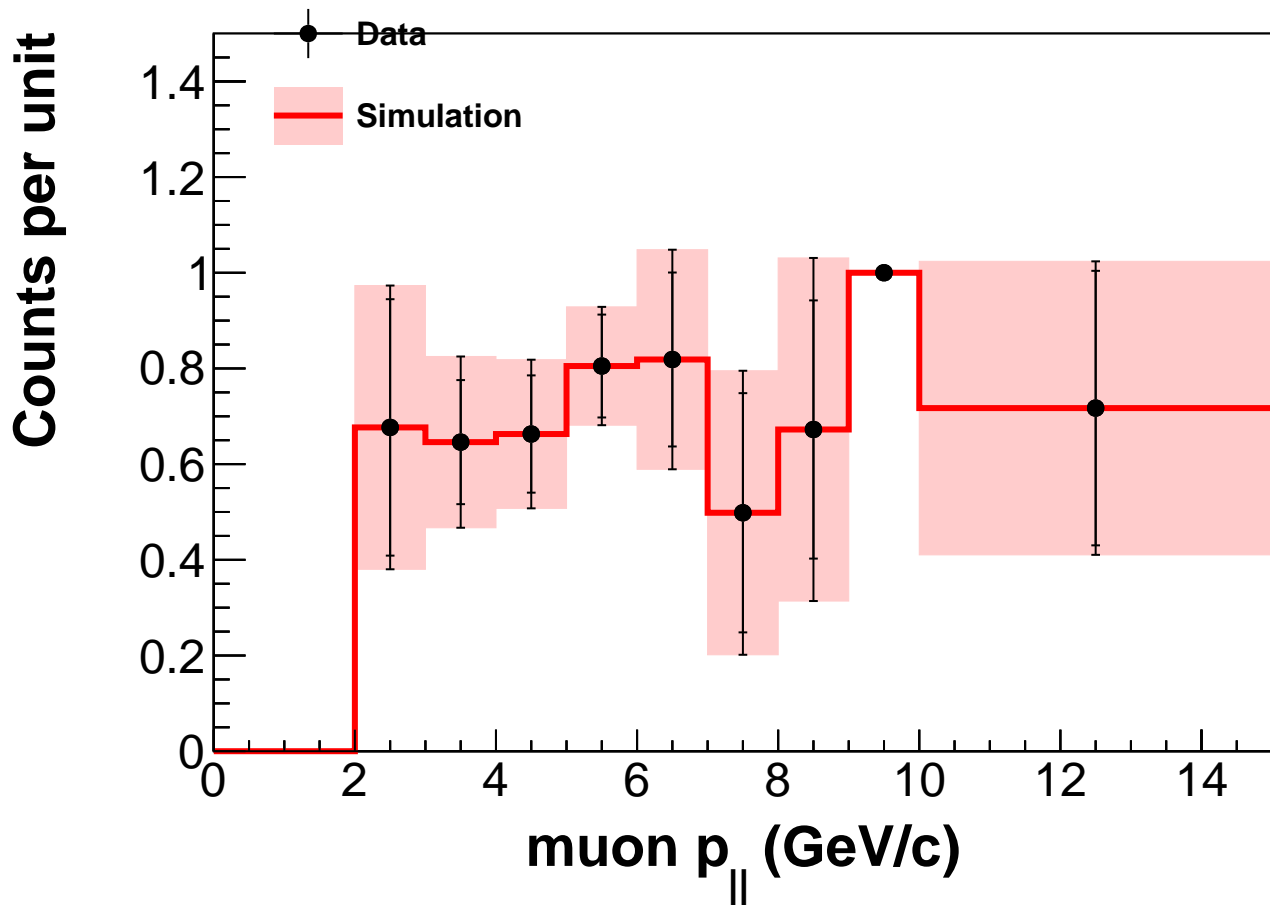
Geant

Genie Interaction Model

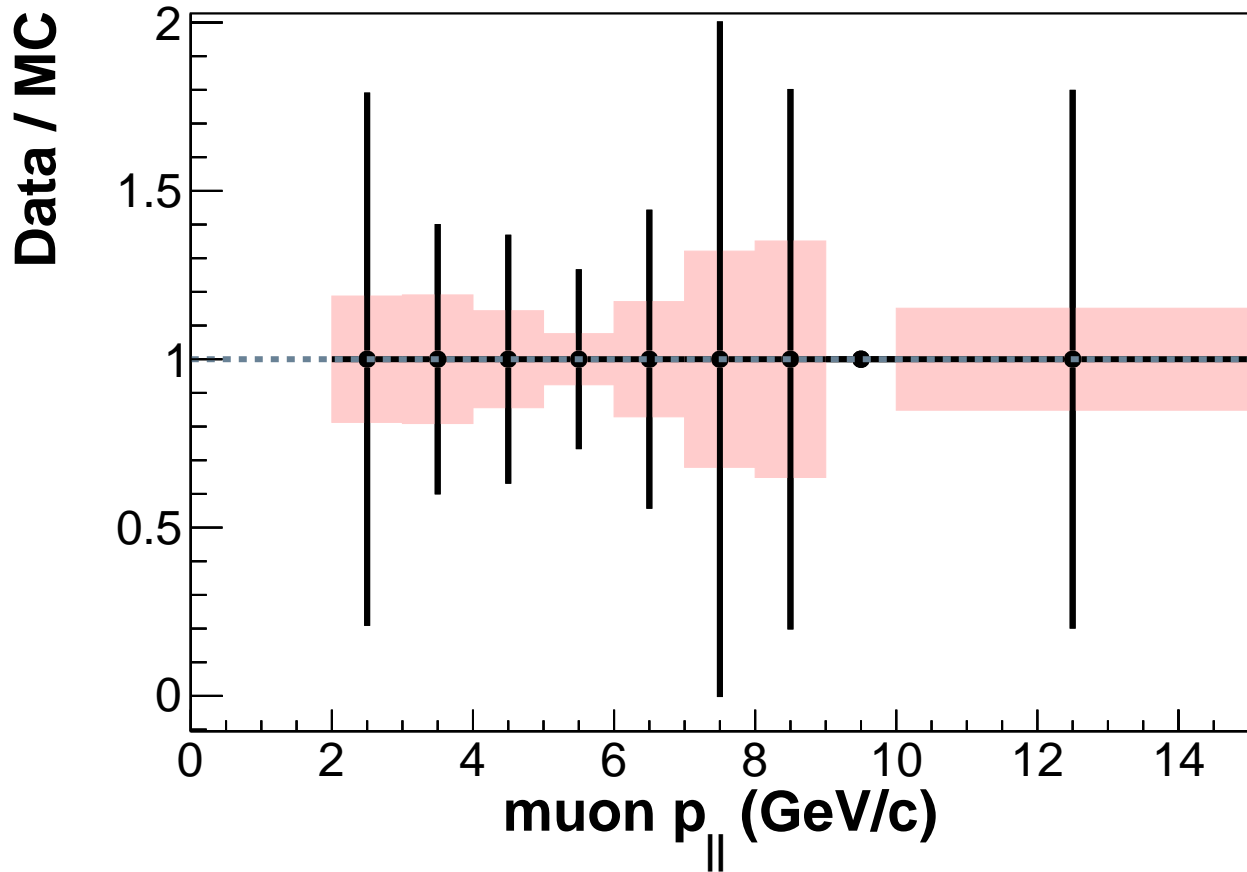
Muon Energy

Tune

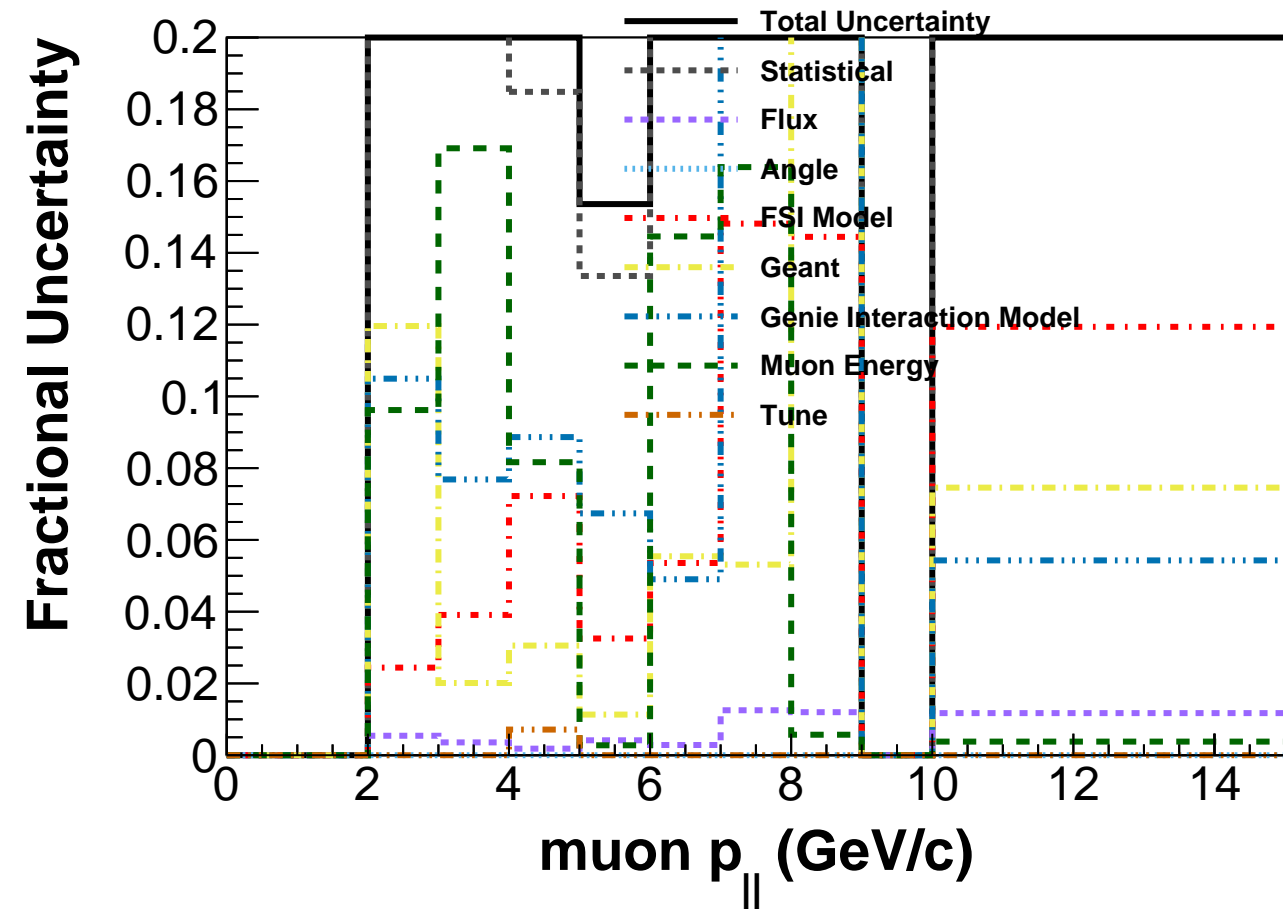
Signal Fraction



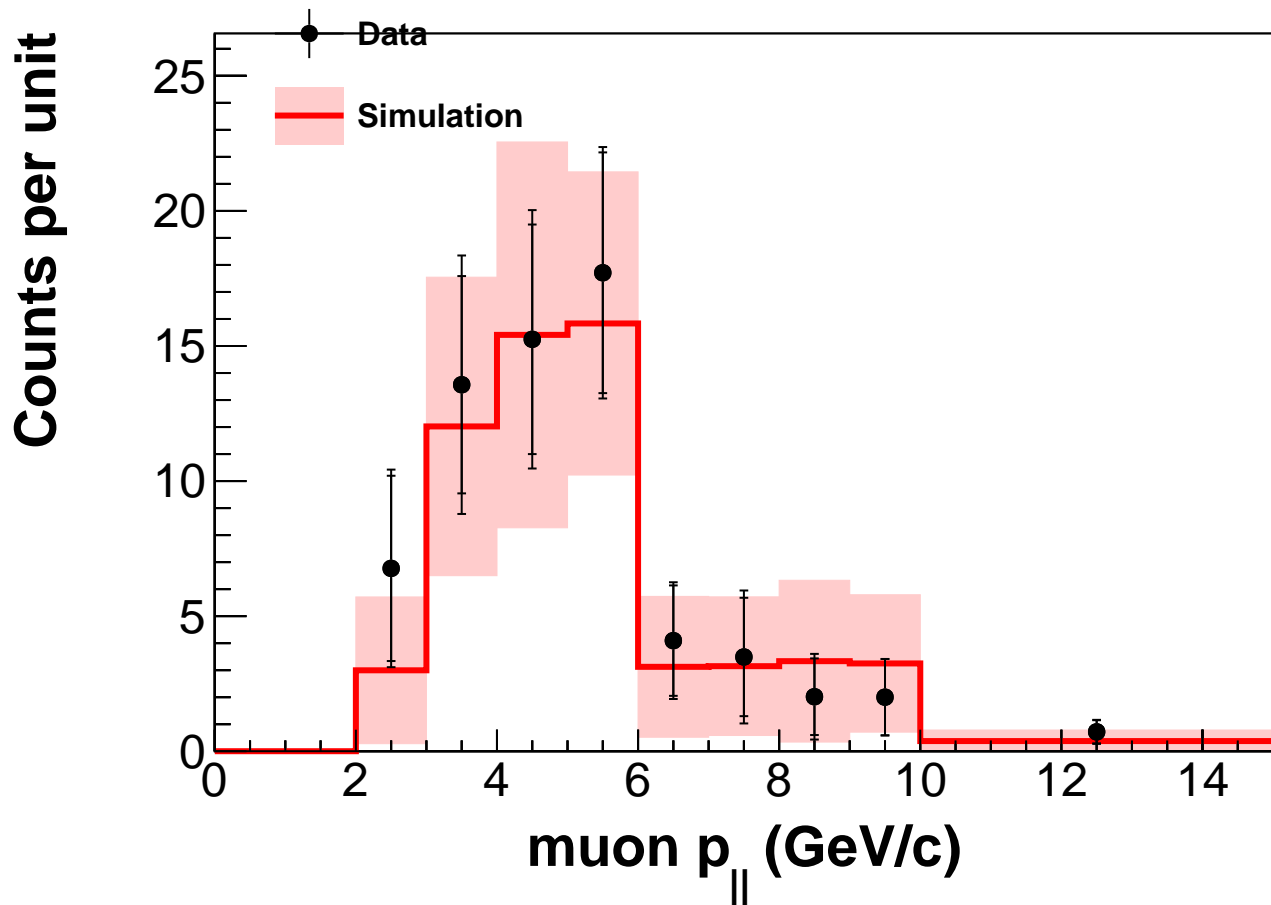
Signal Fraction



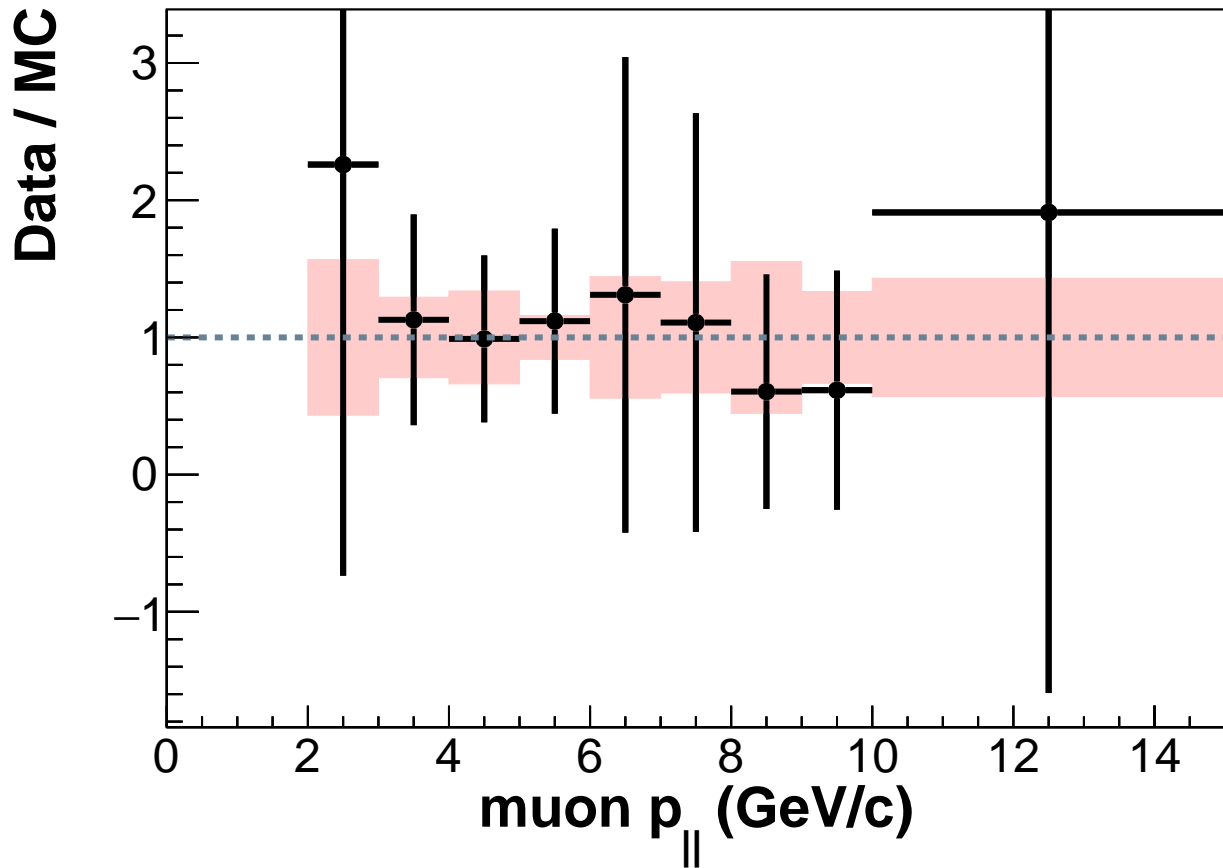
Signal Fraction Systematics



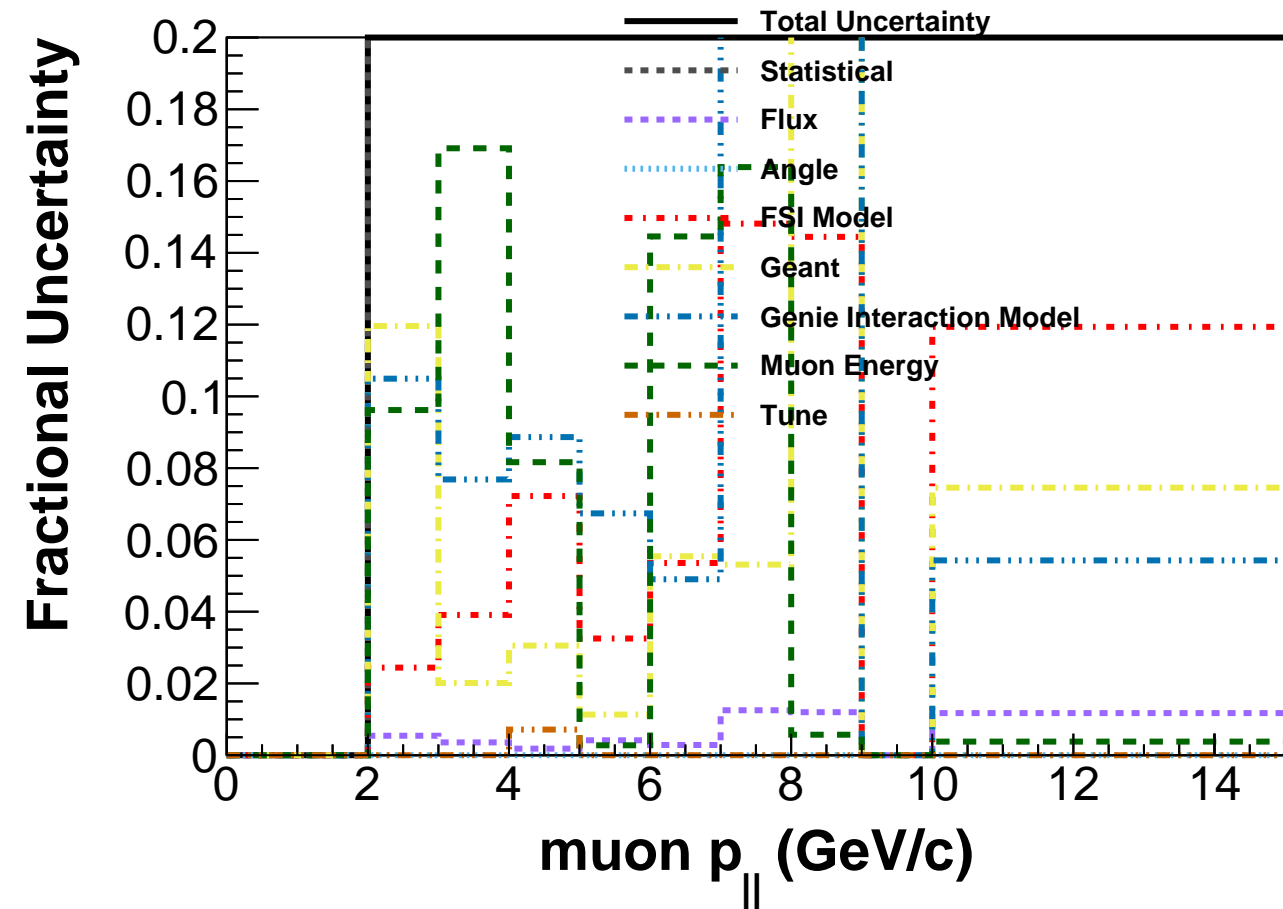
BKGsub vs. MC signal



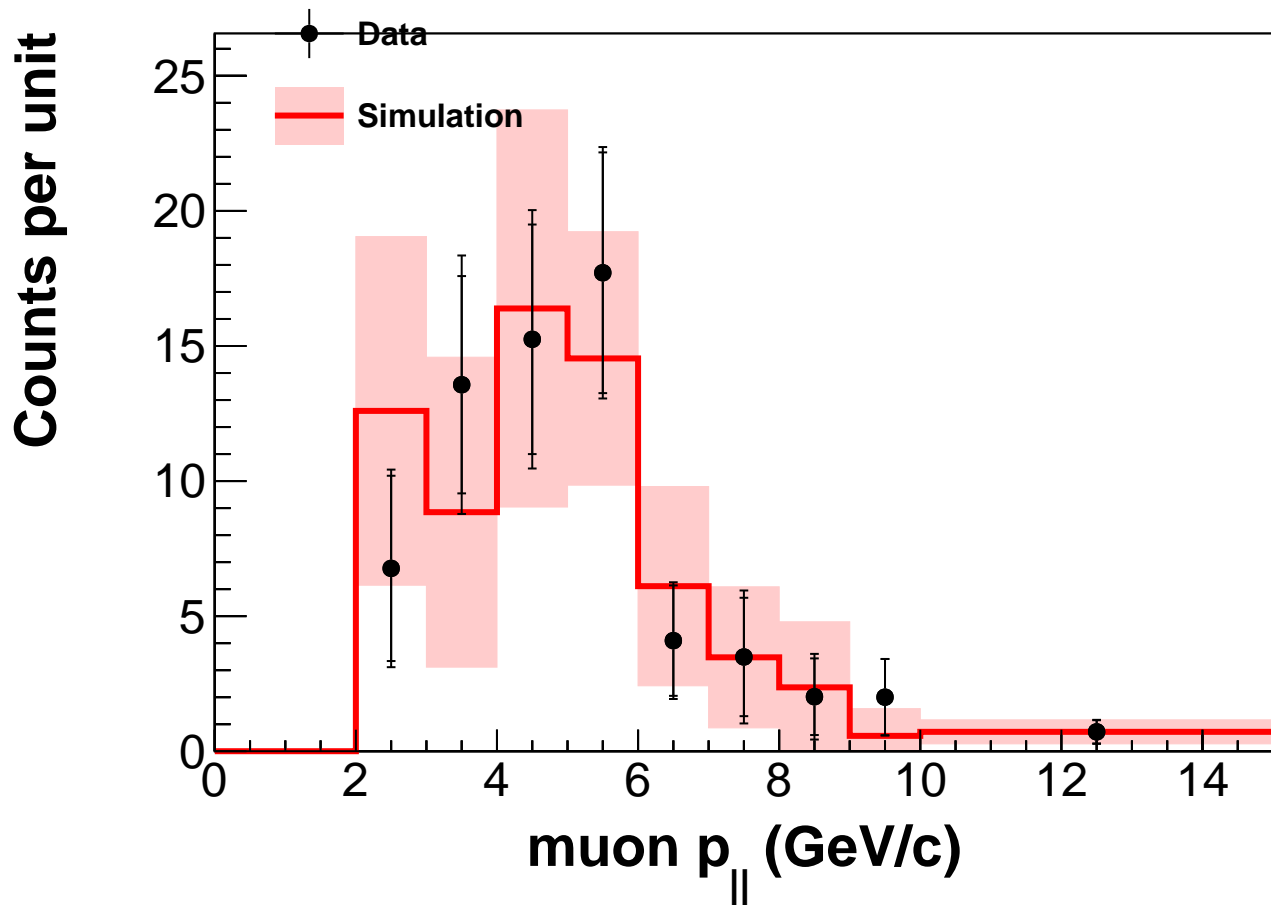
BKGsub vs. MC signal



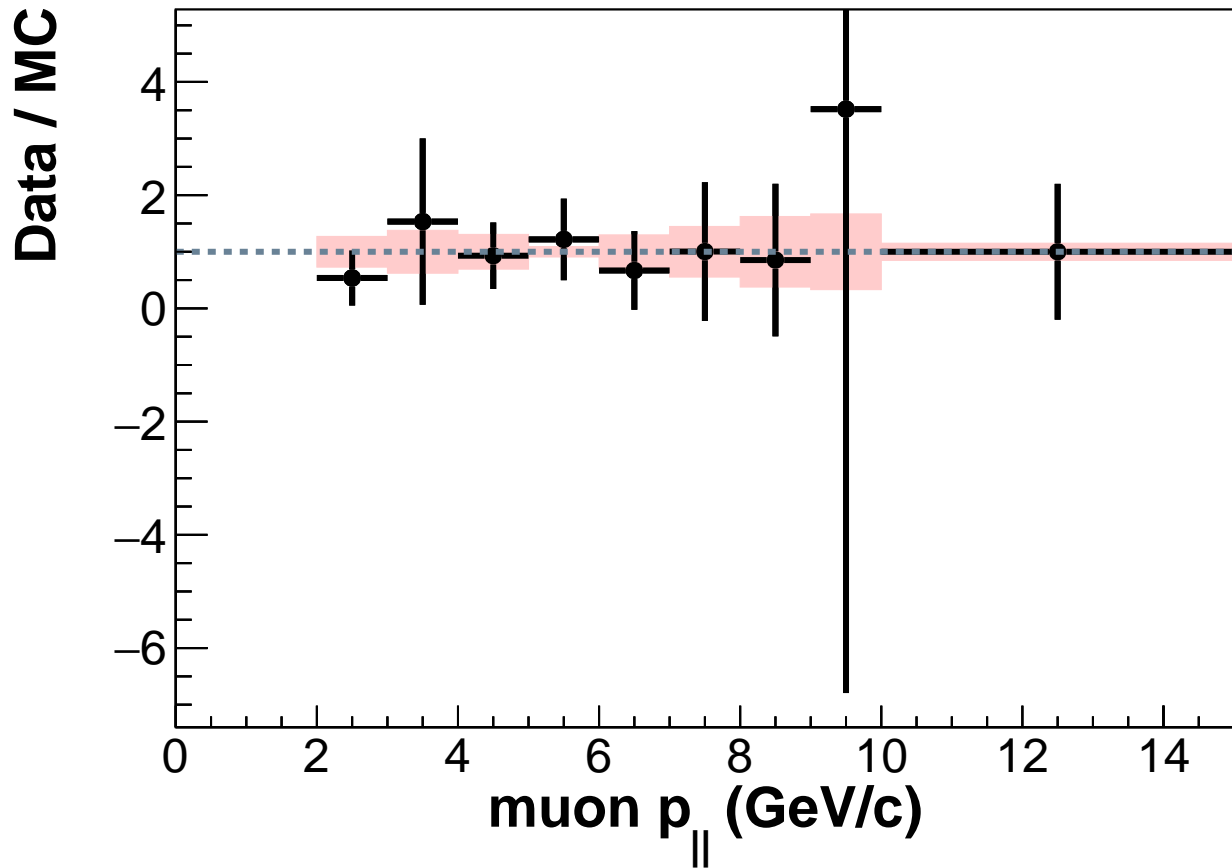
BKGsub Systematics



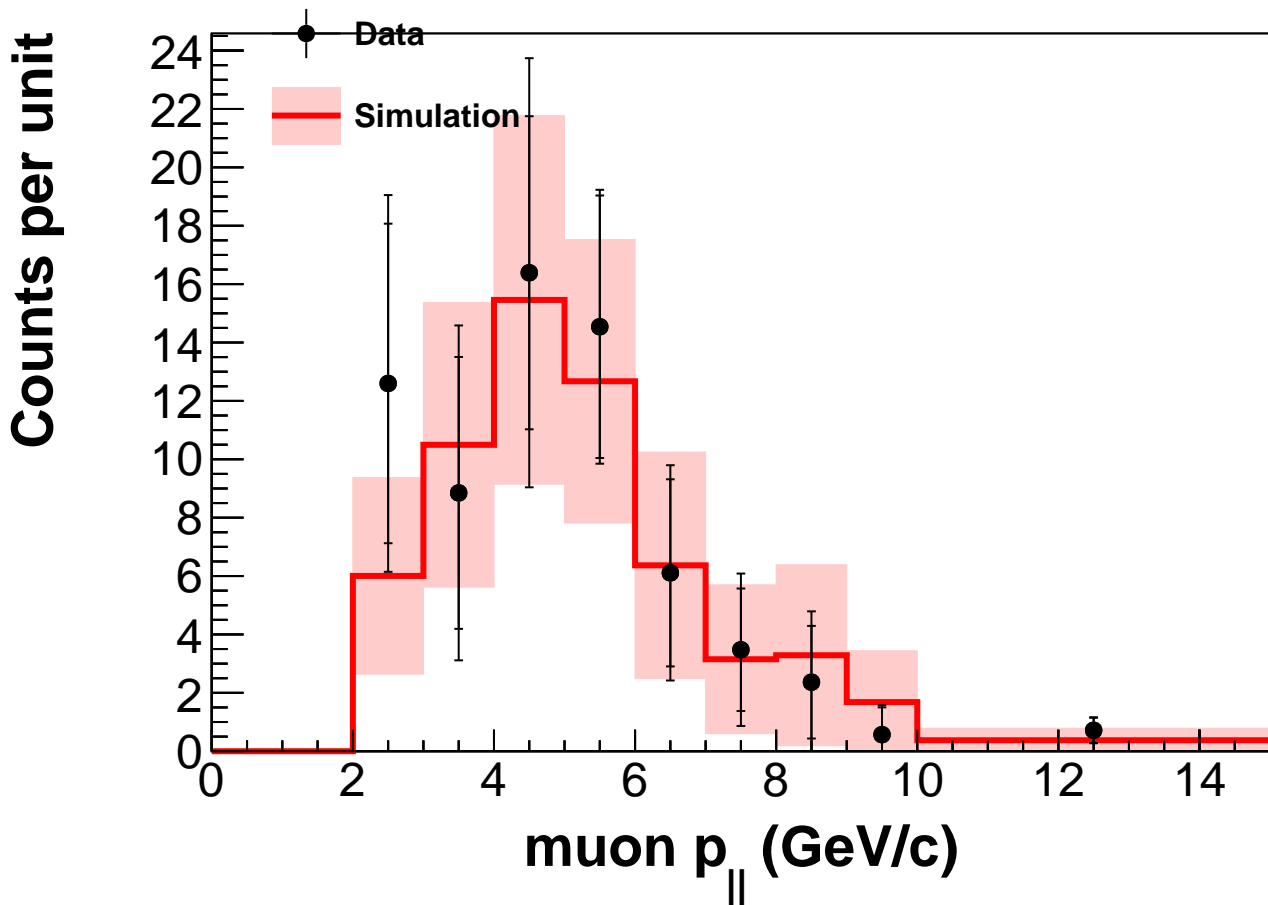
Data Before and After Unsmearing



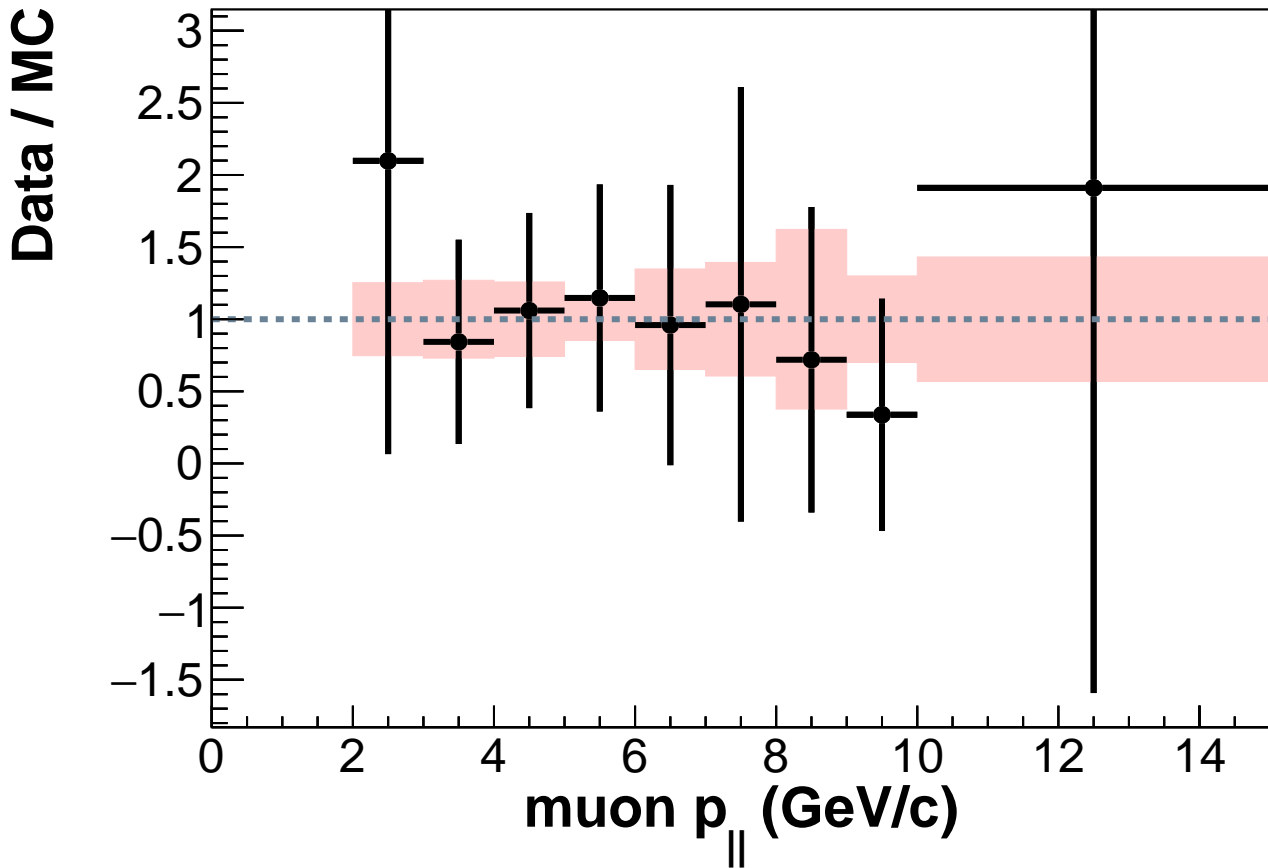
Data Before and After Unsmearing



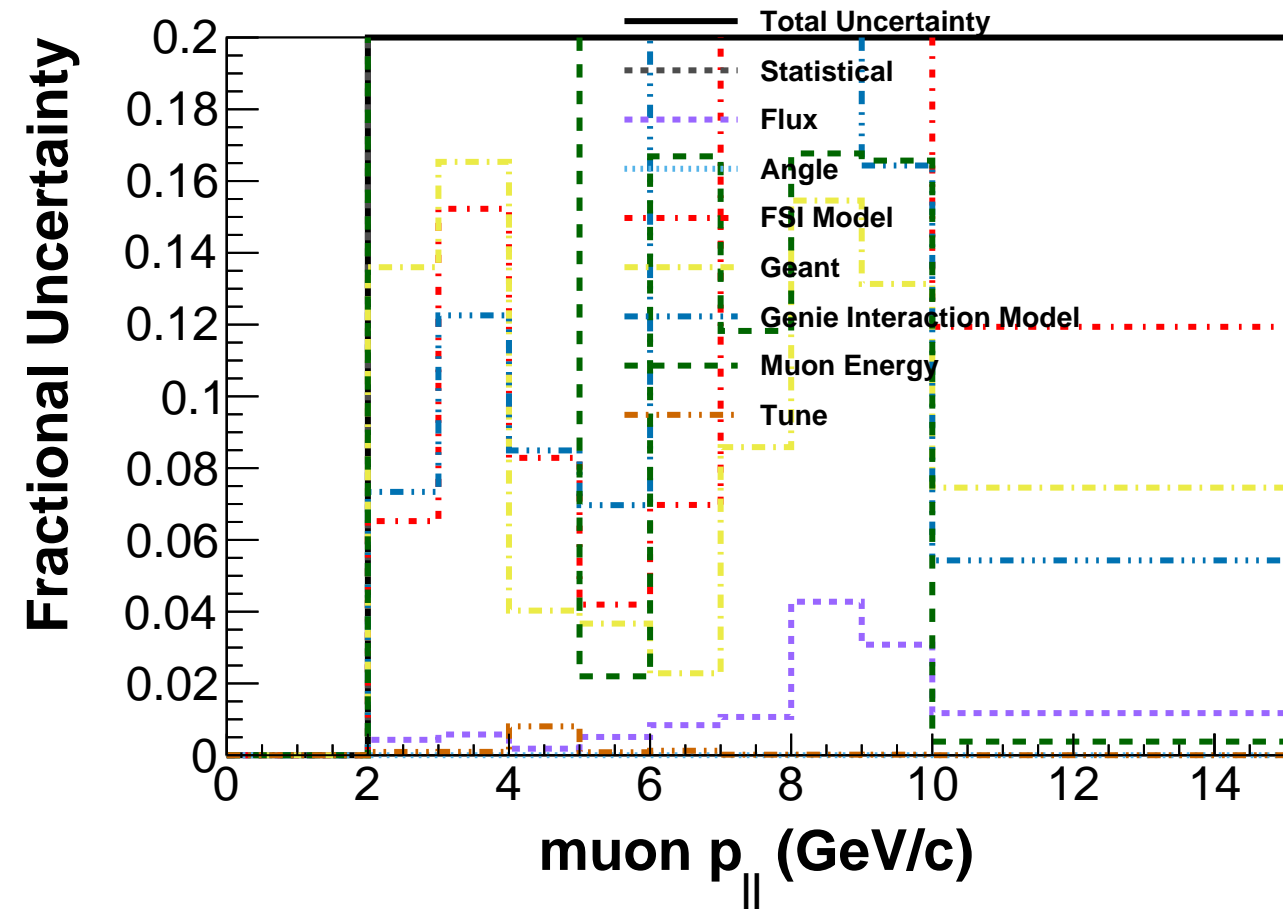
Unsmeared Data Compared to Selected MC



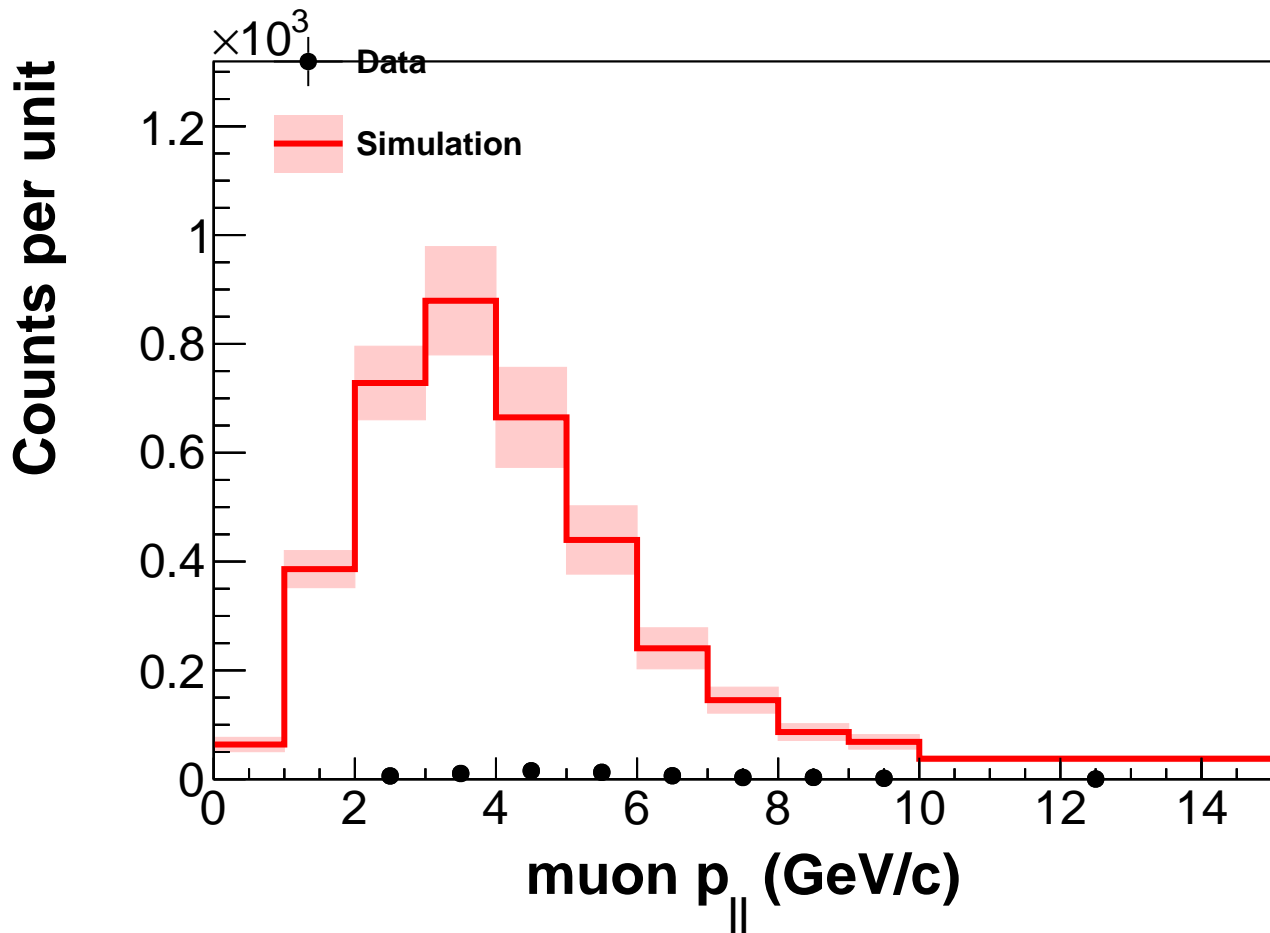
Unsmeared Data Compared to Selected MC



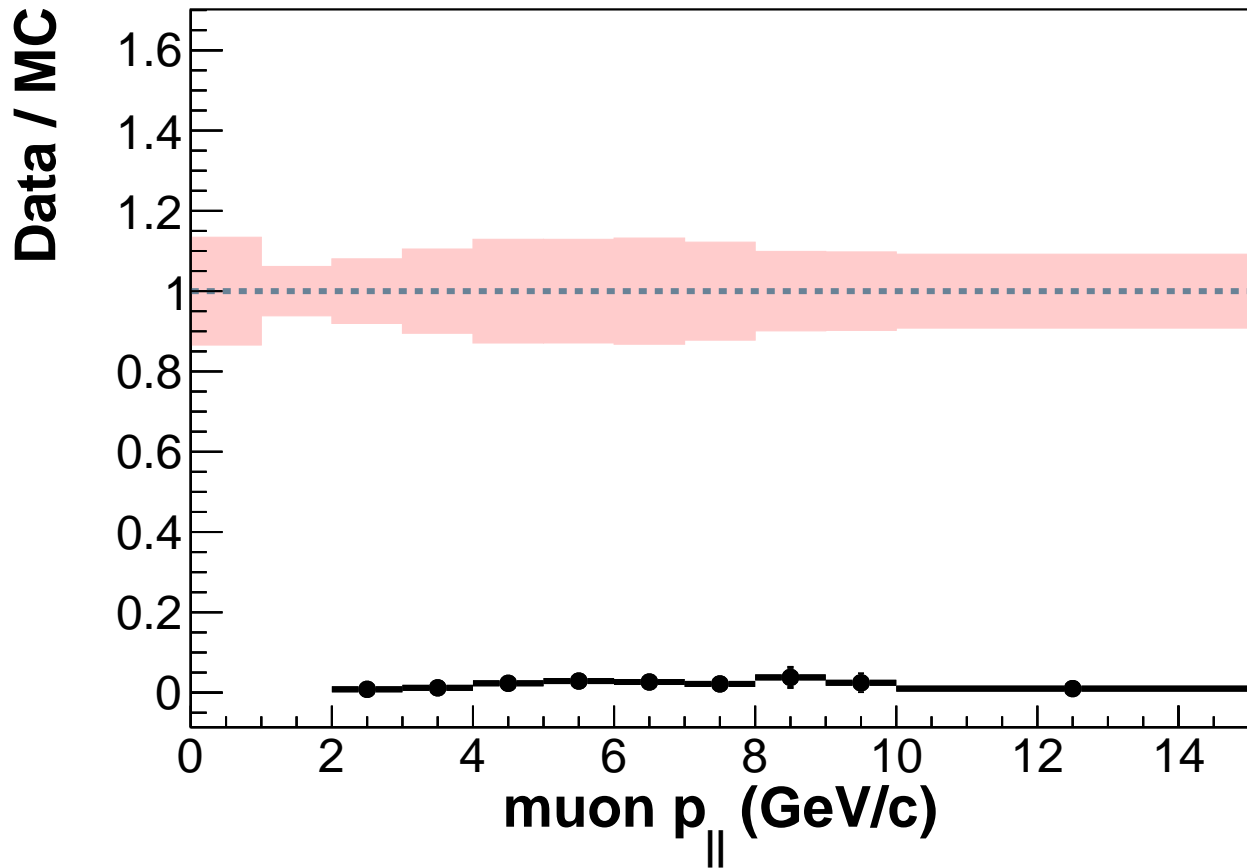
Unsmeared Data Systematics



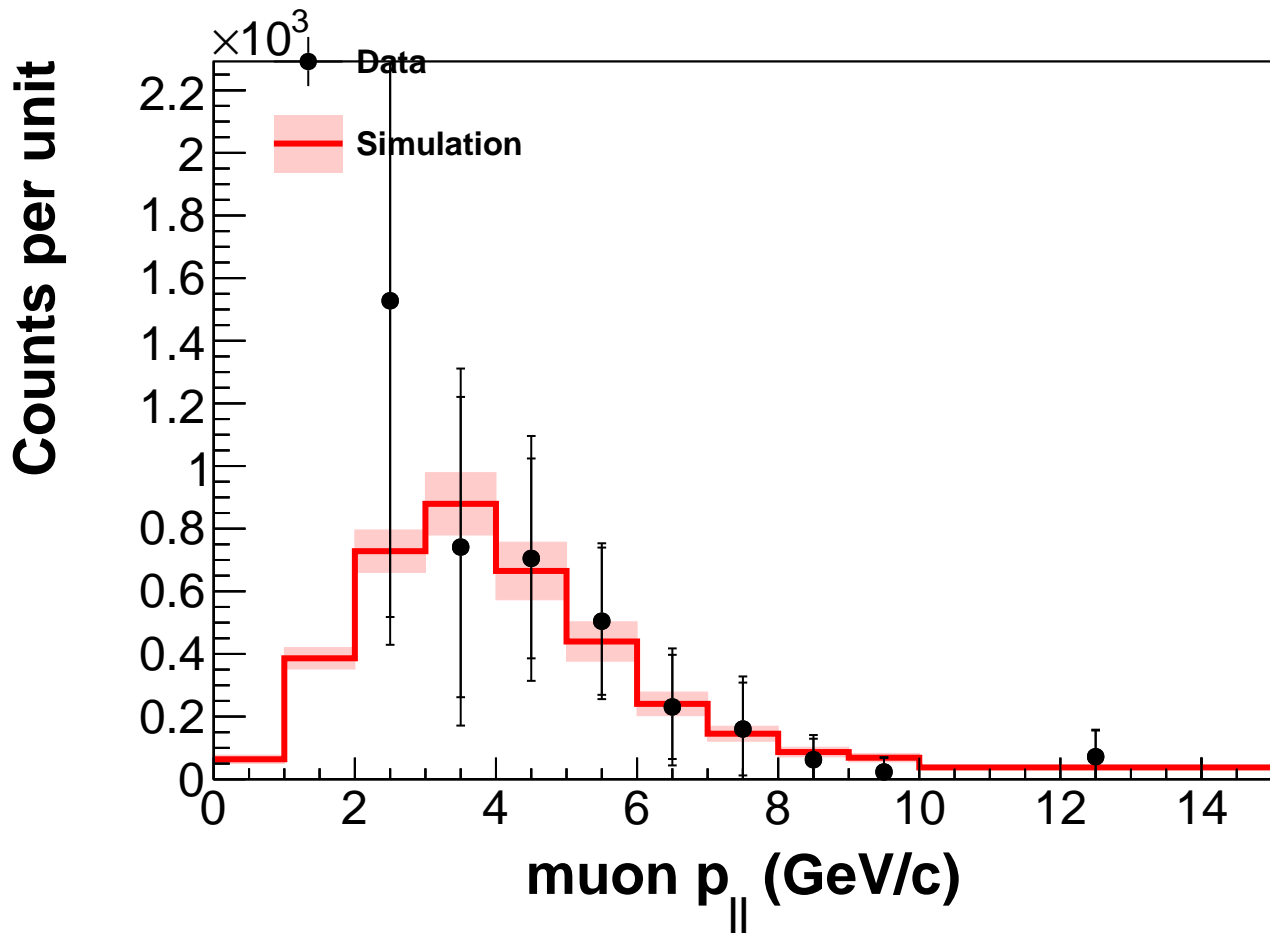
efficiency: selected and true



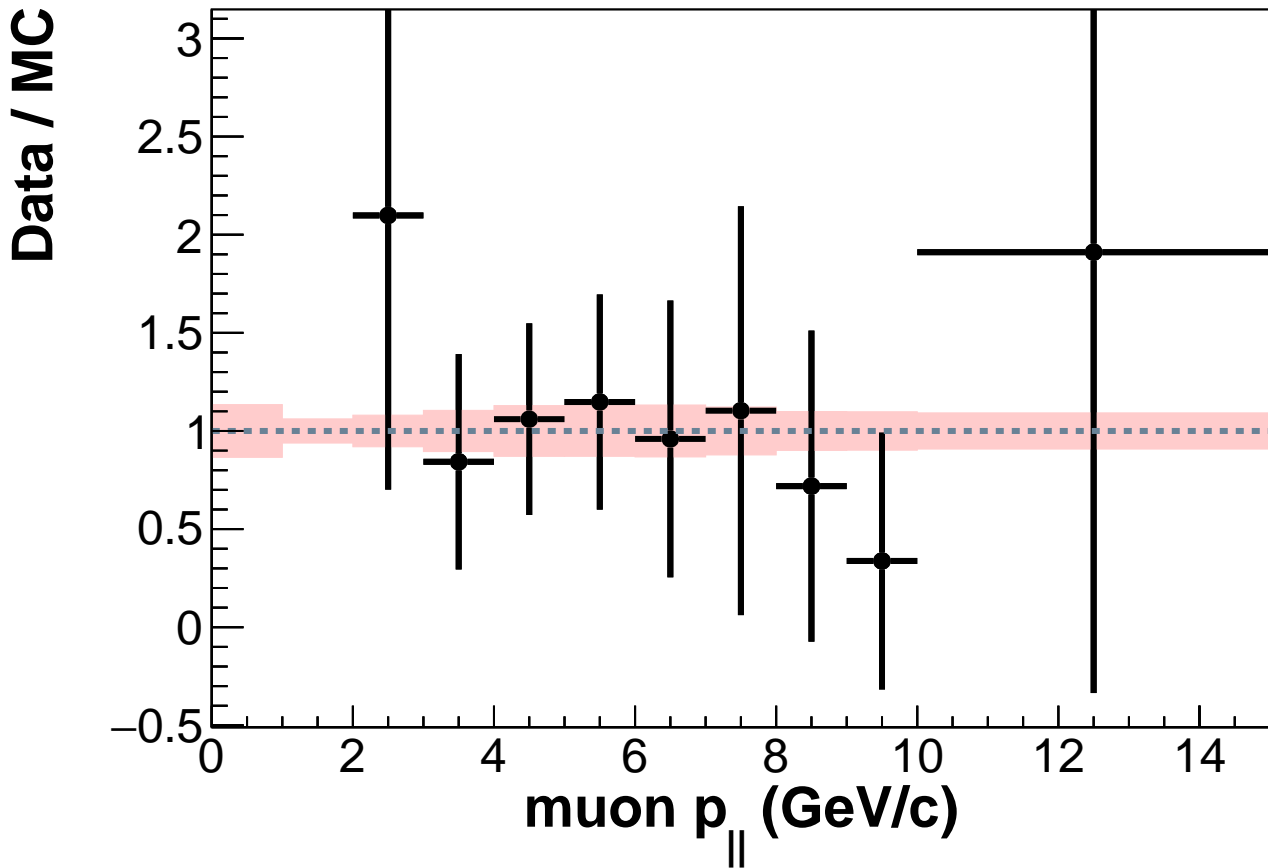
efficiency: selected and true



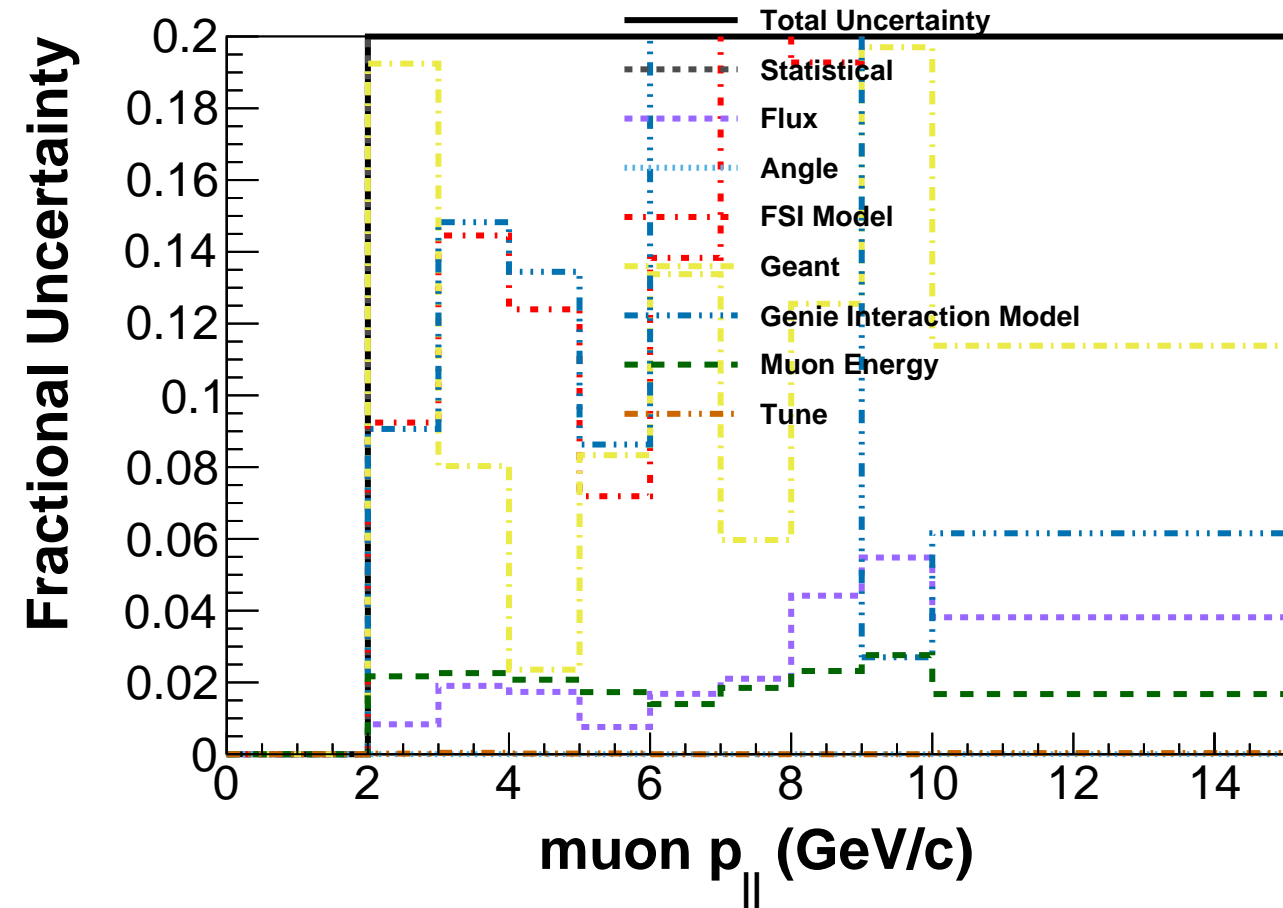
effcorr data vs truth



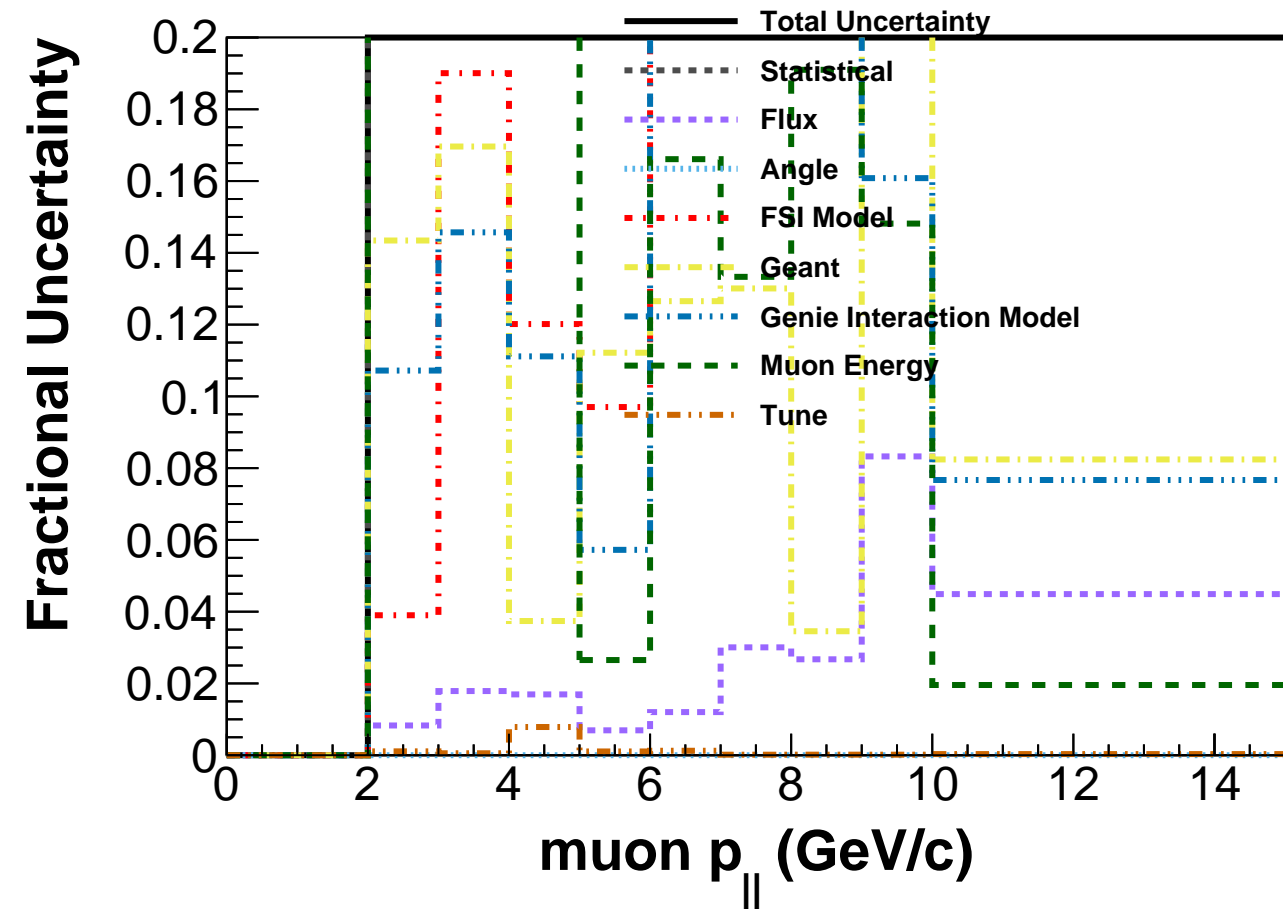
effcorr data vs truth



Efficiency Factor Systematics

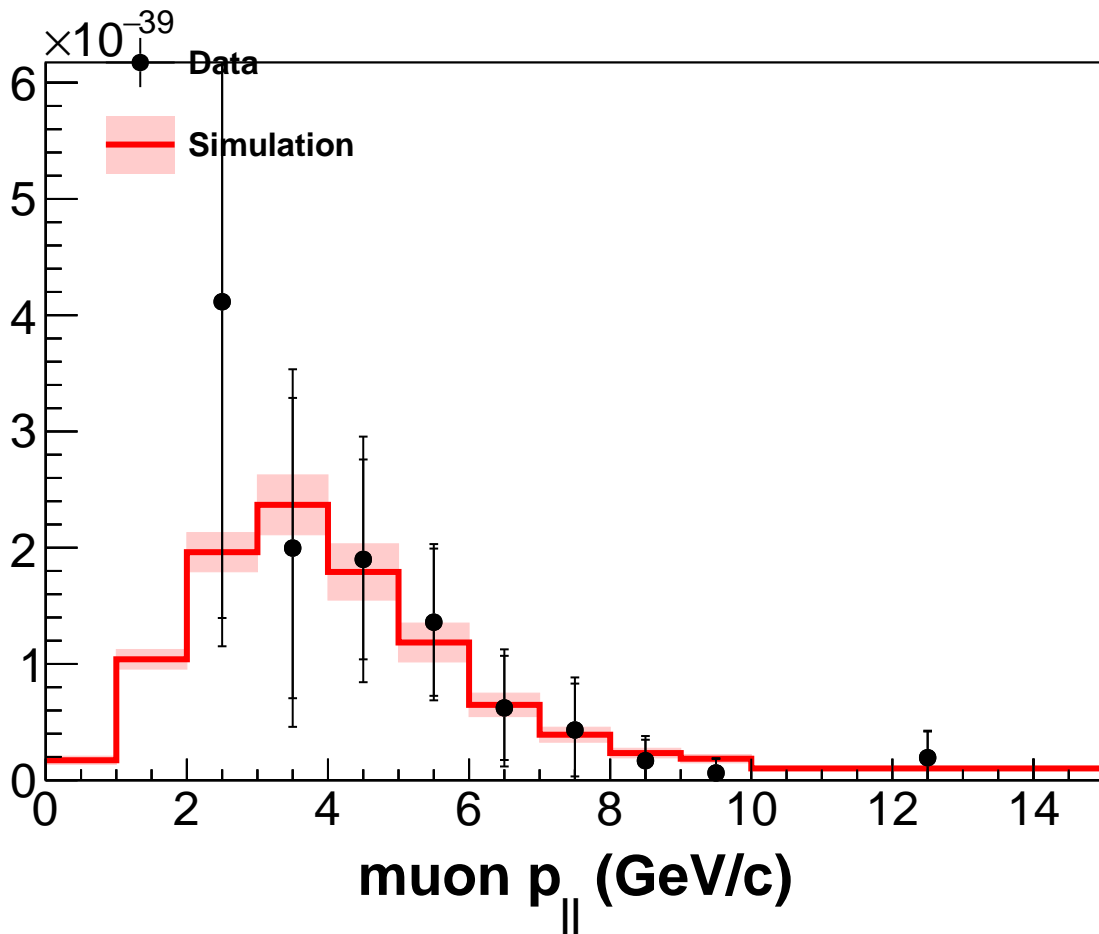


Efficiency Corrected Data Systematics



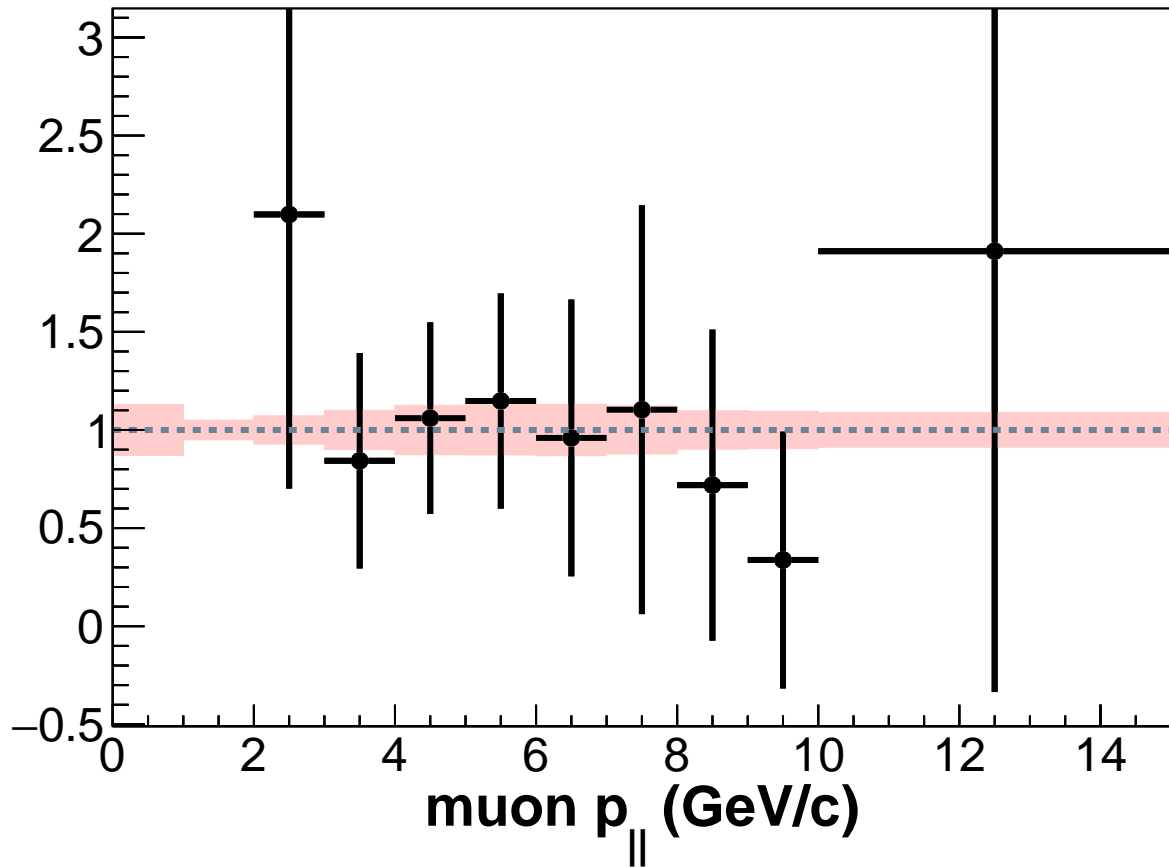
sigma

Counts per unit



sigma

Data / MC



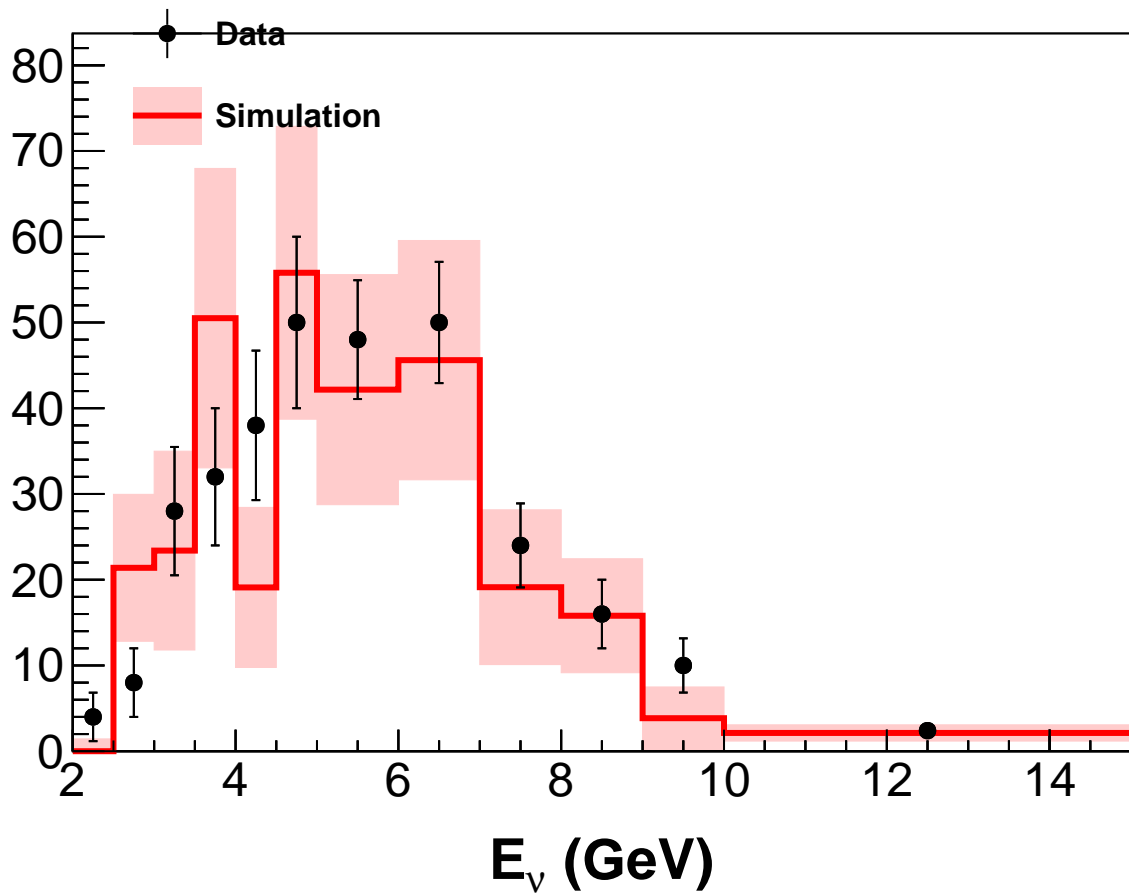
Cross Section Systematics



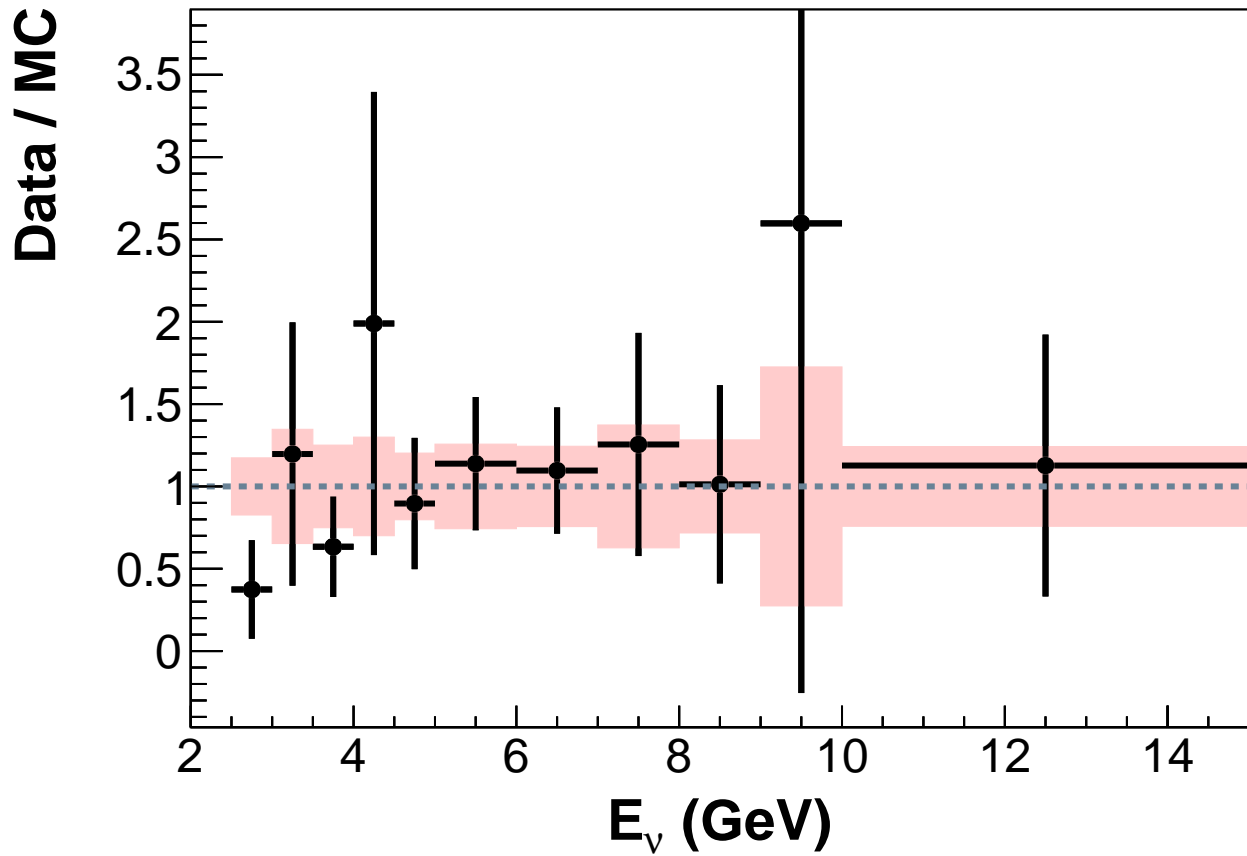
muon p_{\perp} (GeV/c)

DATA_vs_MC

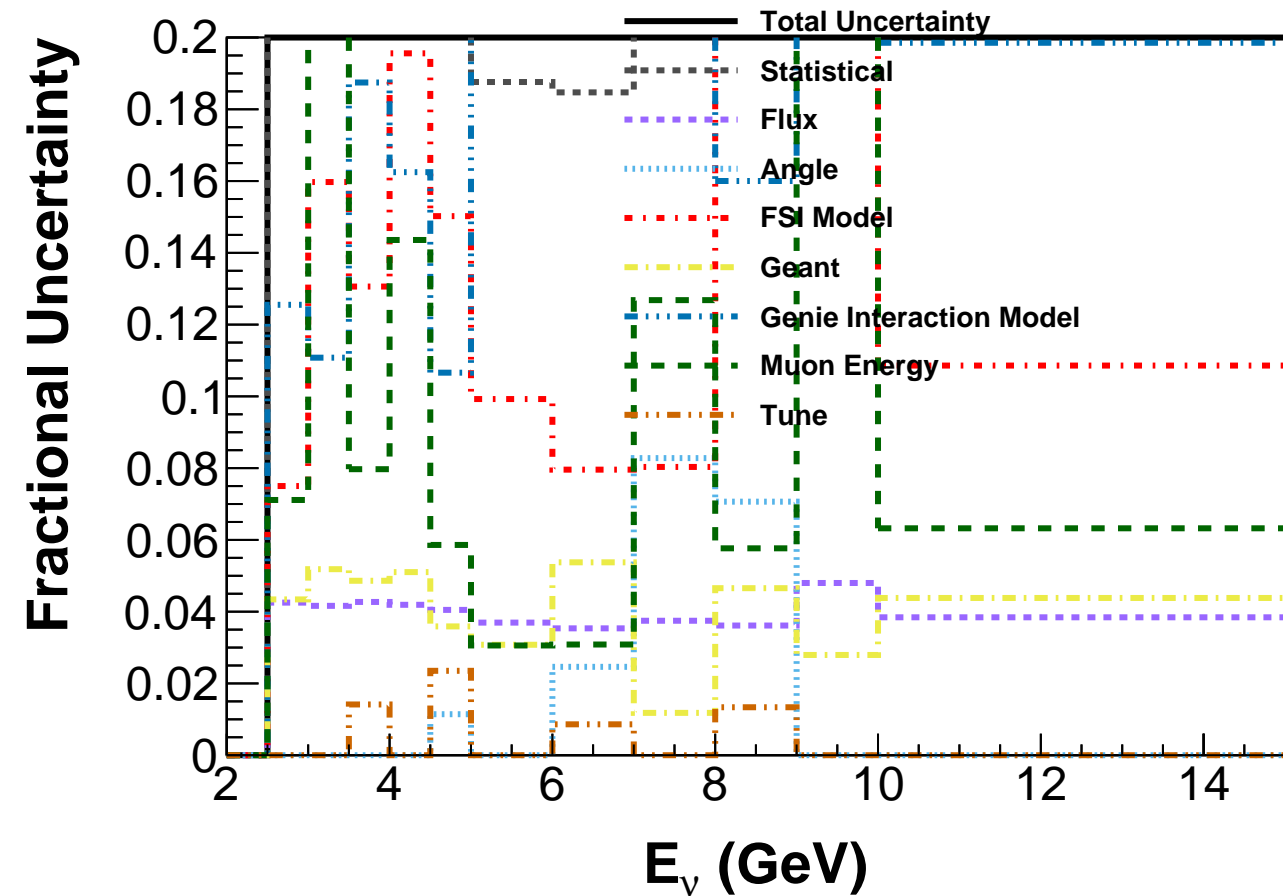
Counts per unit



DATA_vs_MC

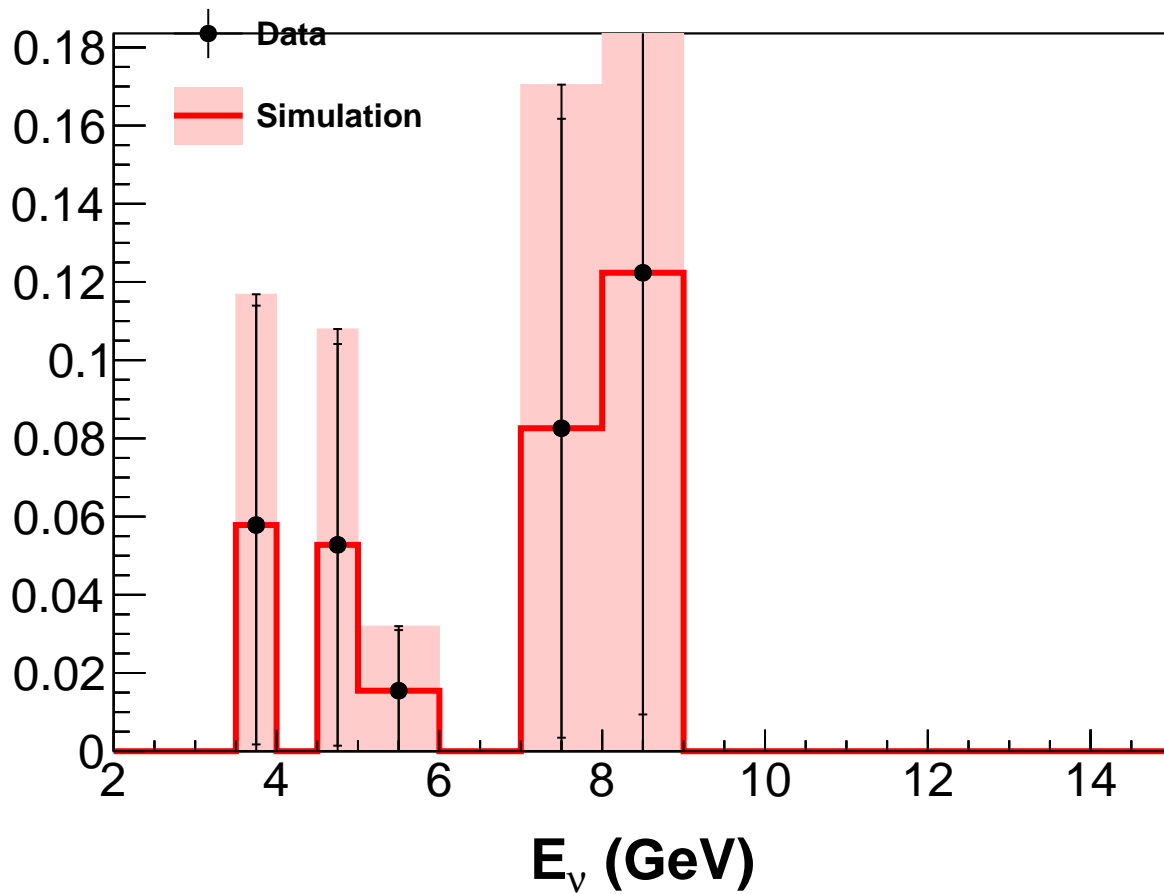


Raw MC Systematics



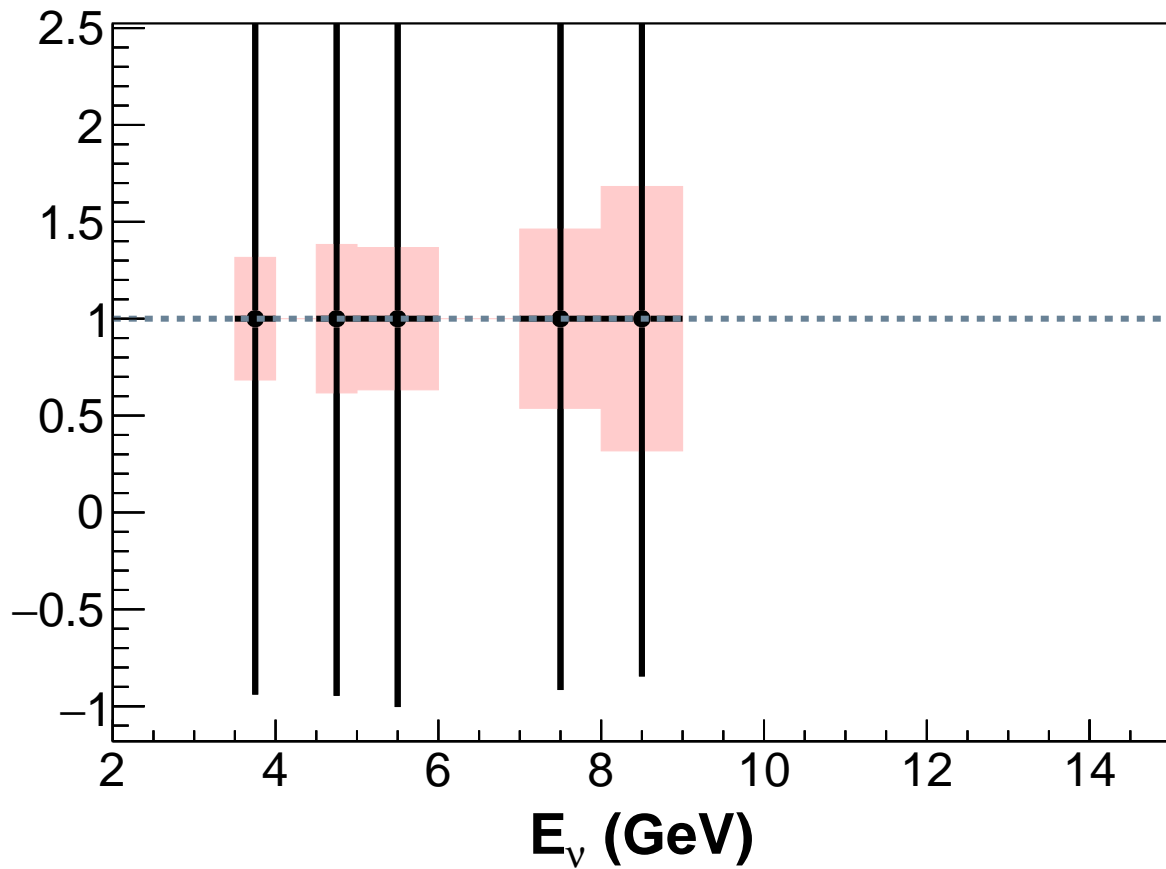
Signal Fraction

Counts per unit



Signal Fraction

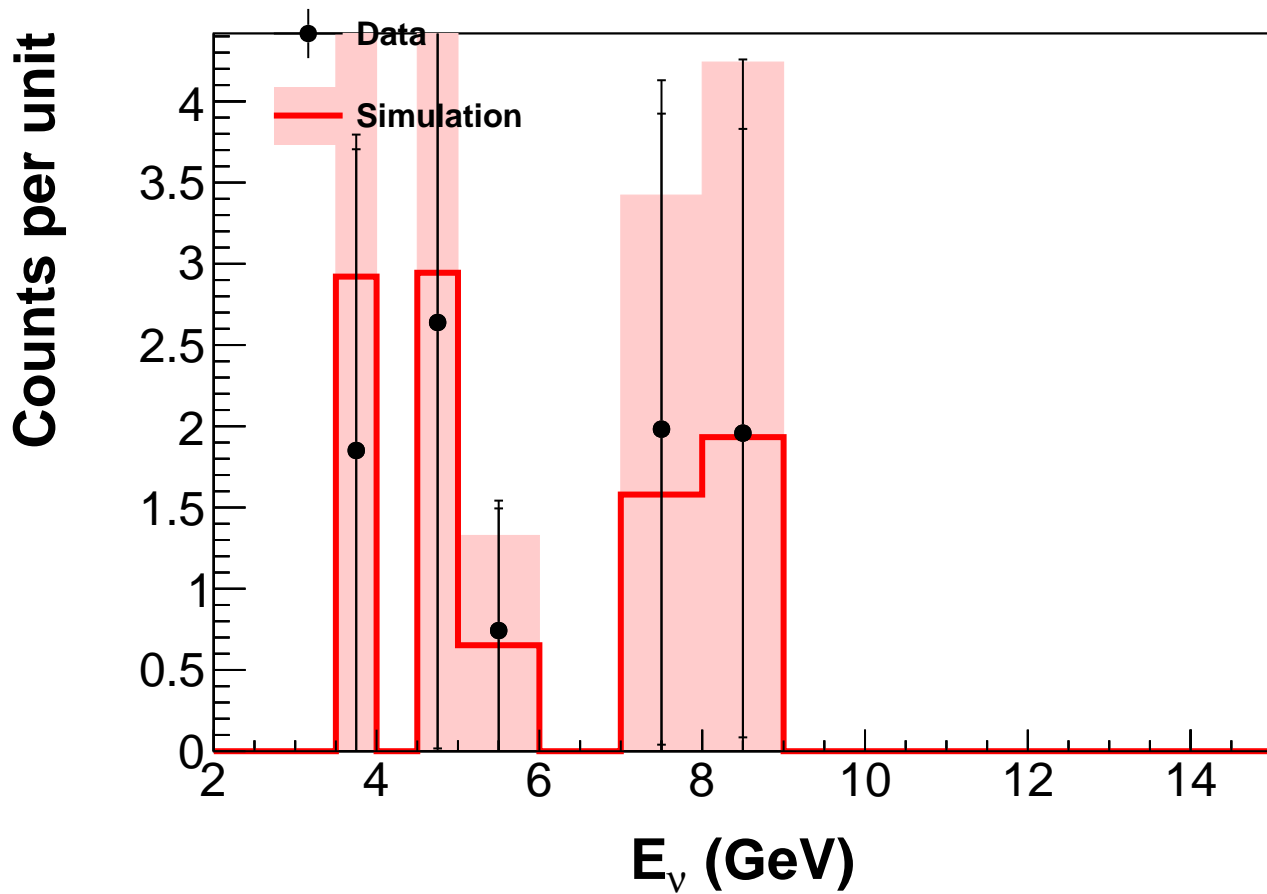
Data / MC



Signal Fraction Systematics

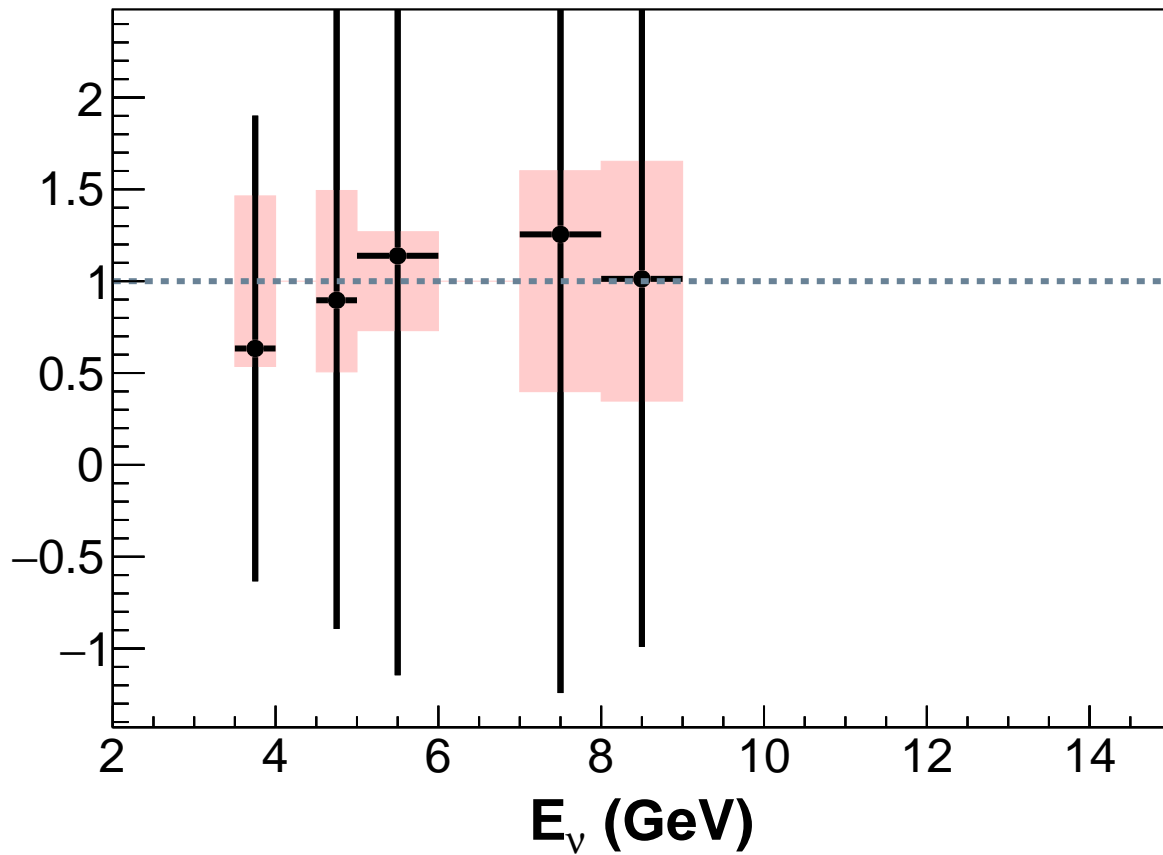
 E_ν (GeV)

BKGsub vs. MC signal



BKGsub vs. MC signal

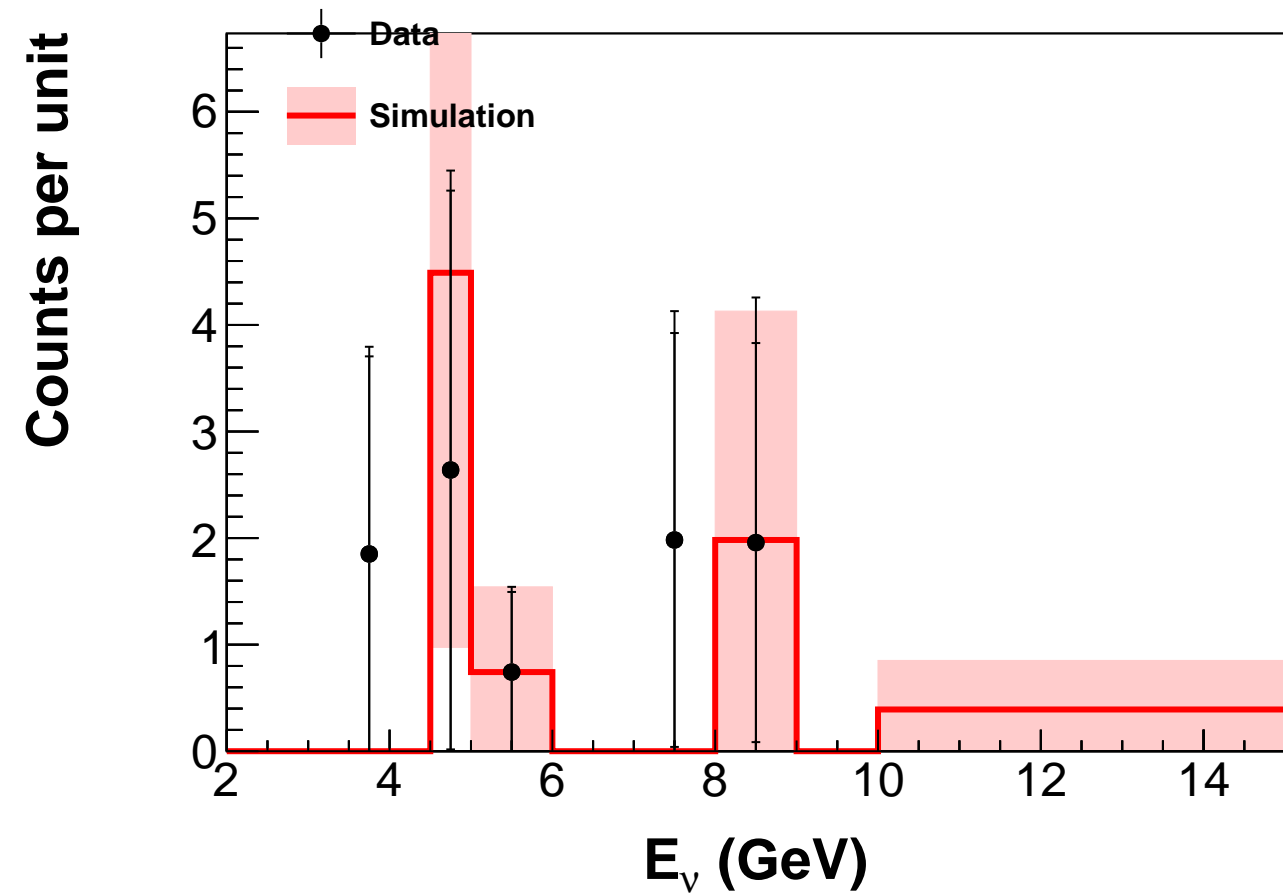
Data / MC



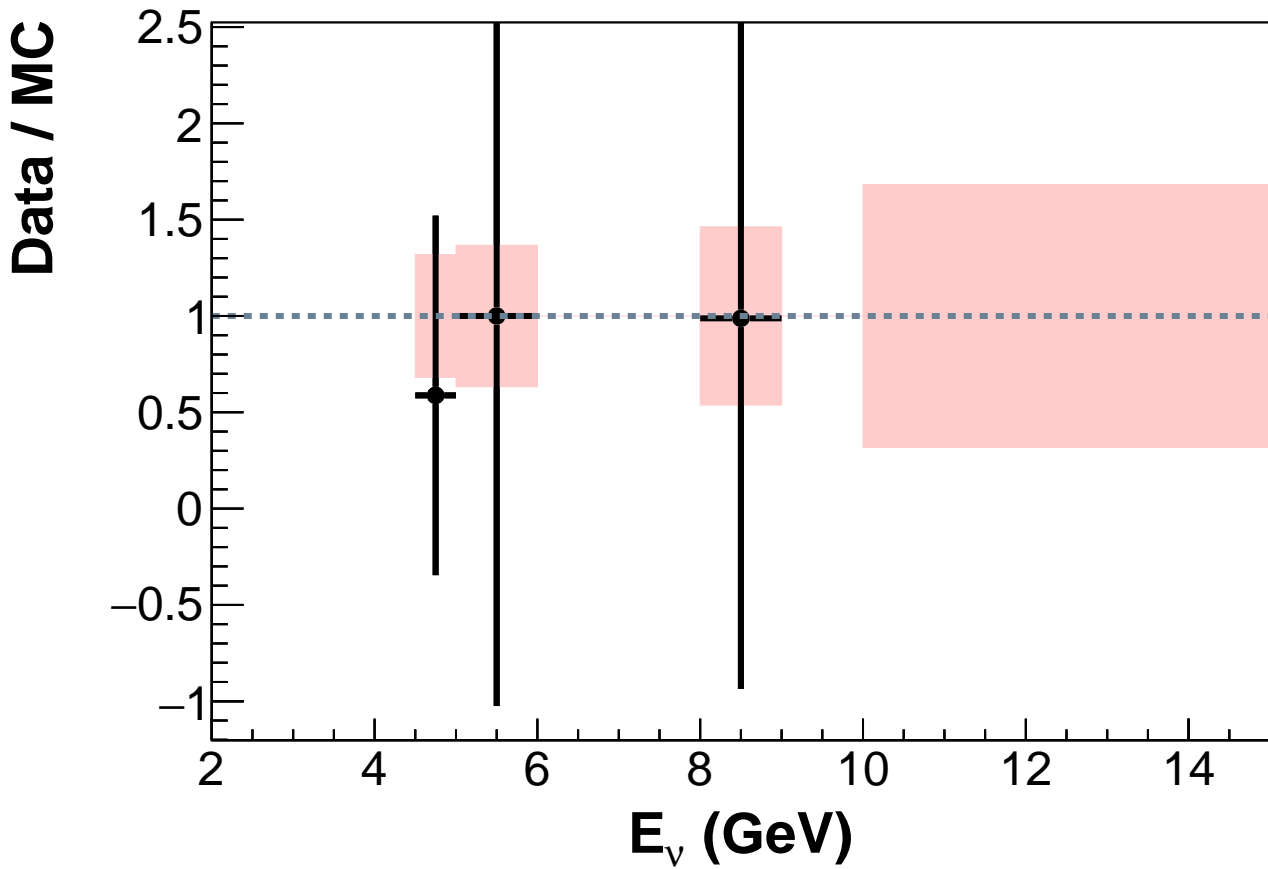
BKGsub Systematics

 E_ν (GeV)

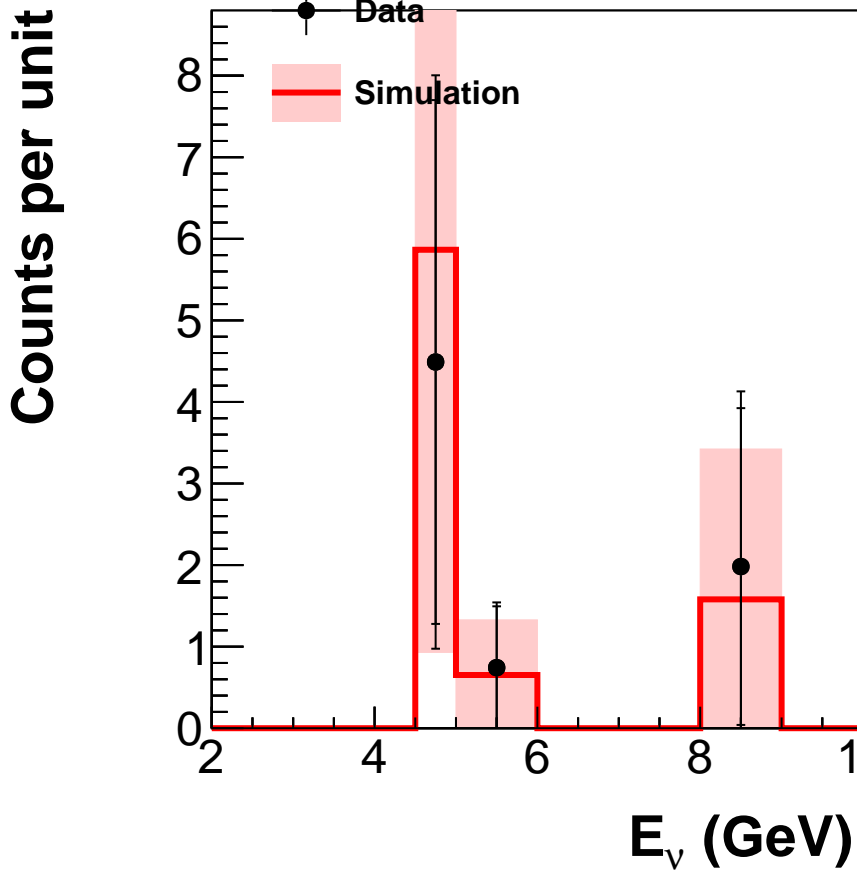
Data Before and After Unsmearing



Data Before and After Unsmearing

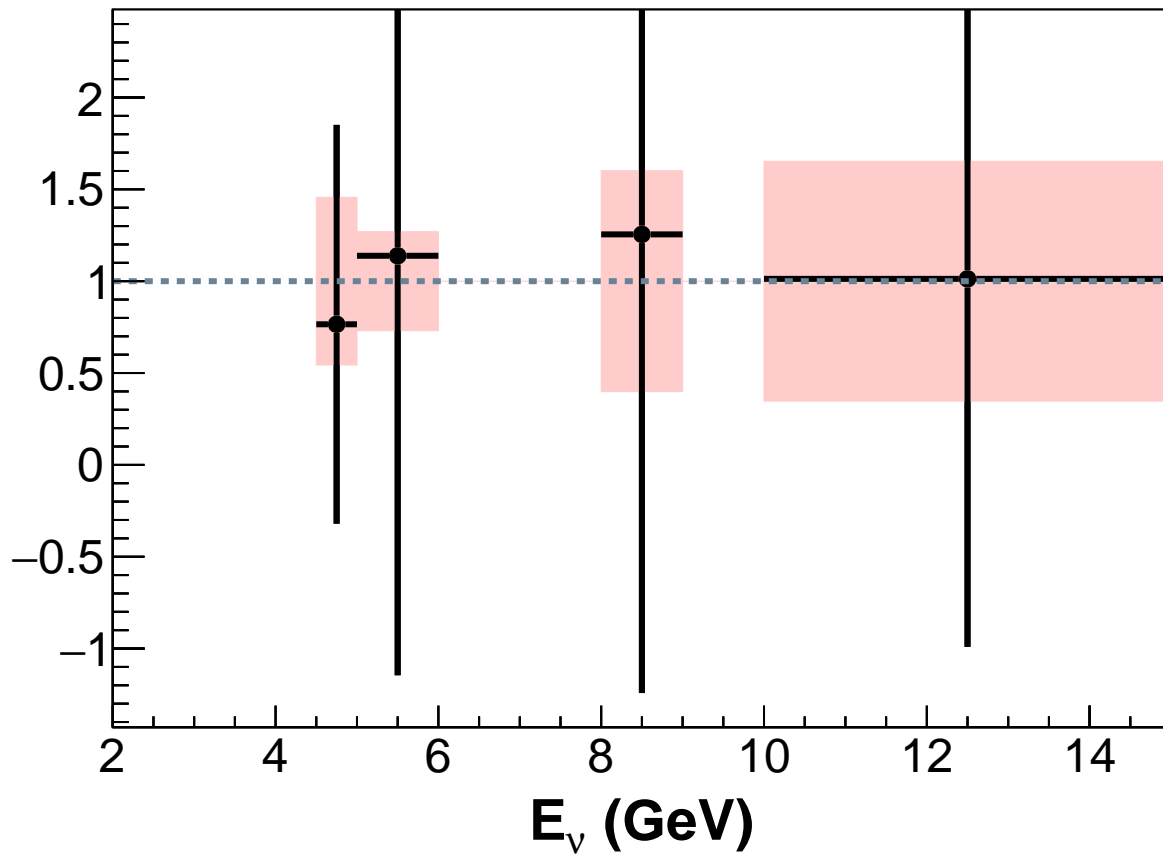


Unsmeared Data Compared to Selected MC

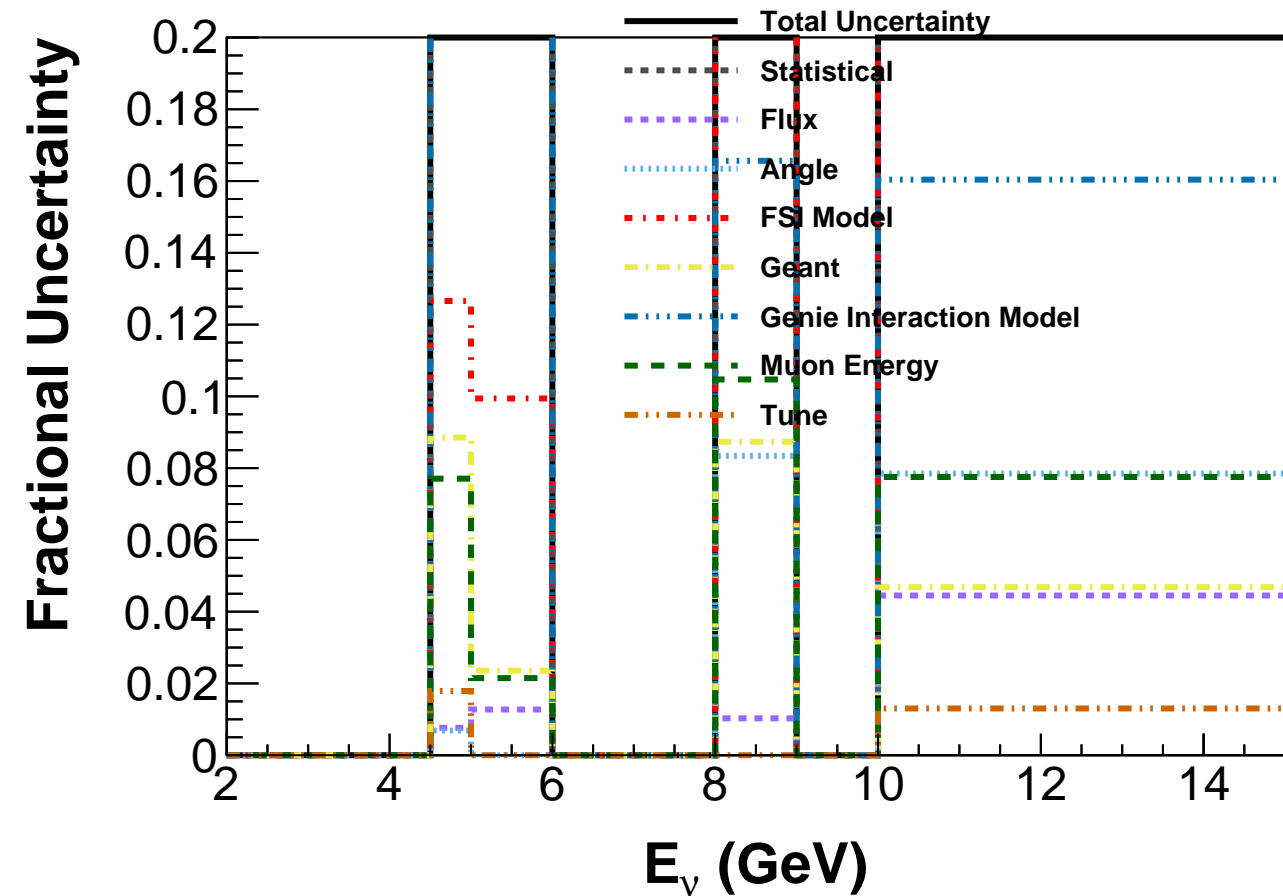


Unsmeared Data Compared to Selected MC

Data / MC

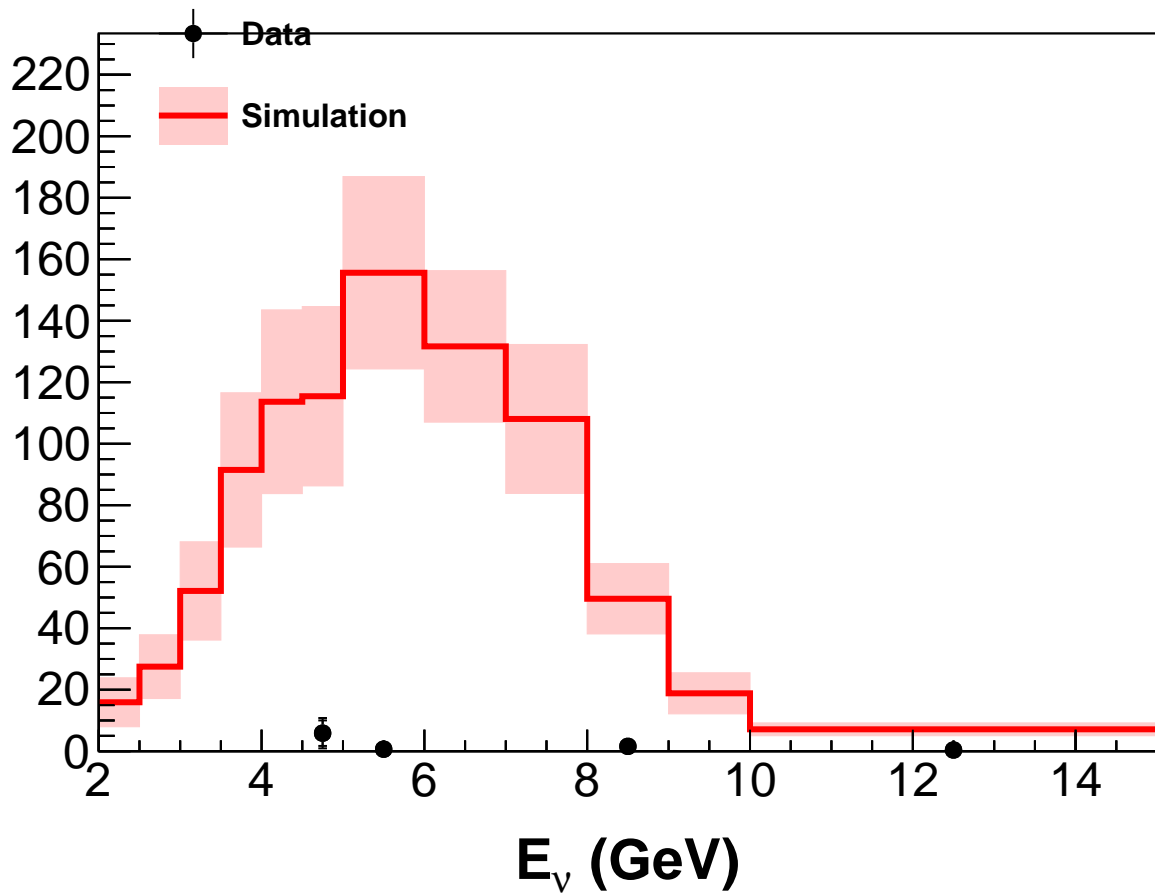


Unsmeared Data Systematics

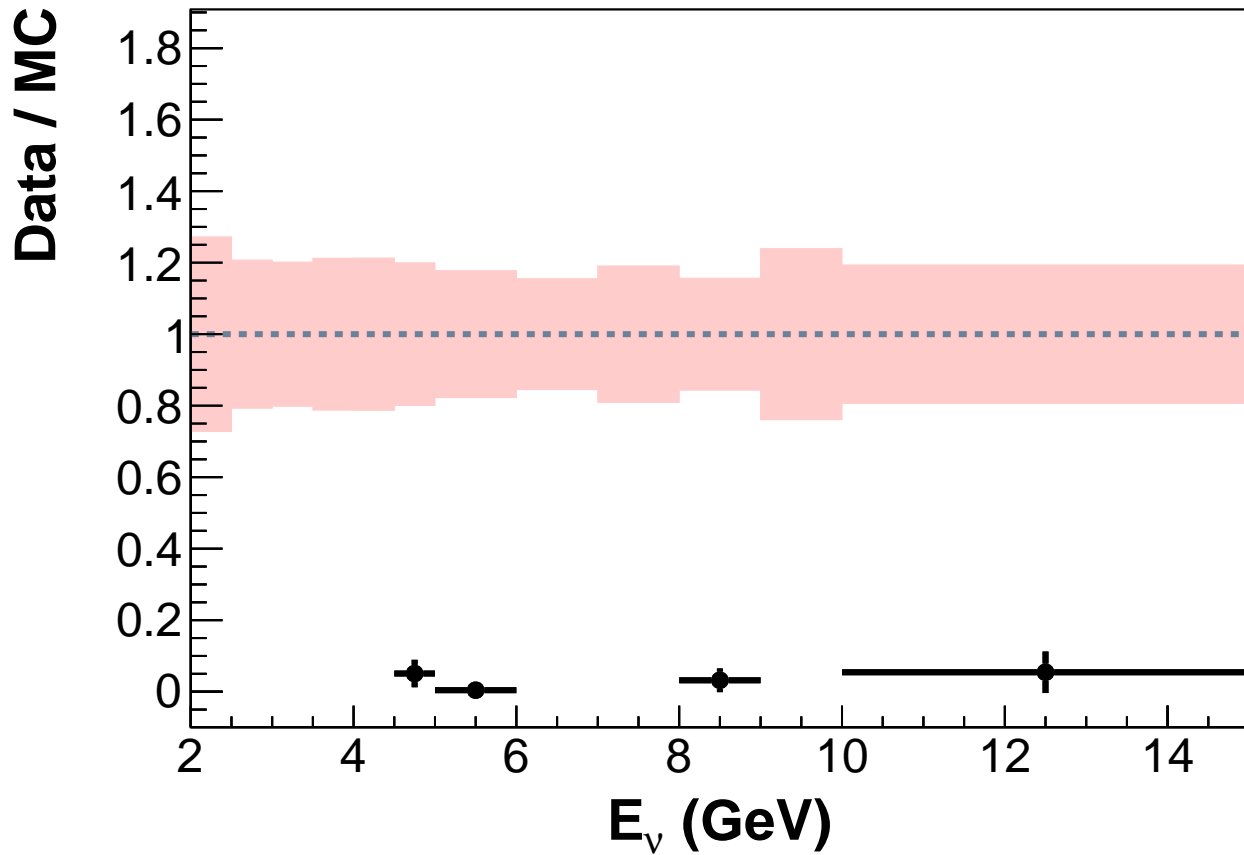


efficiency: selected and true

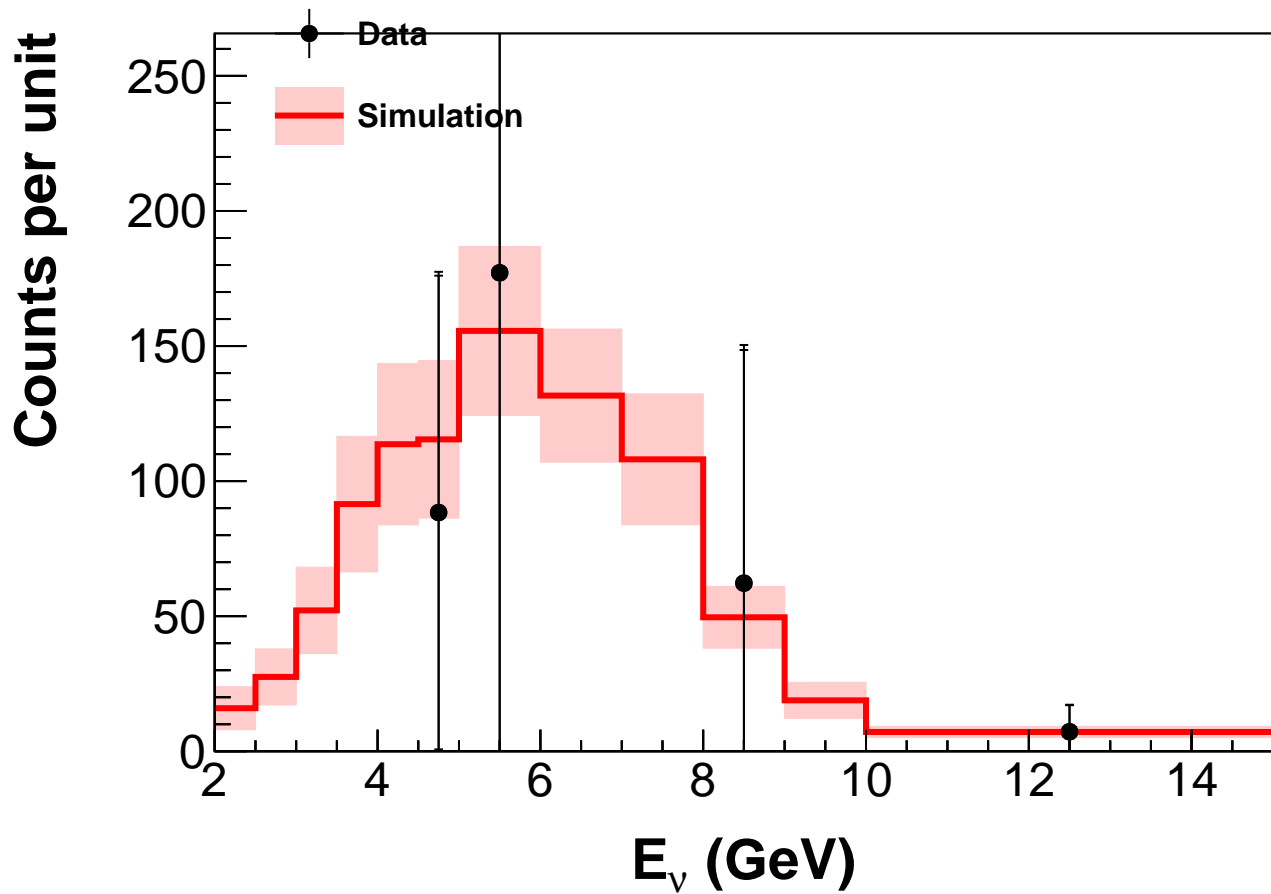
Counts per unit



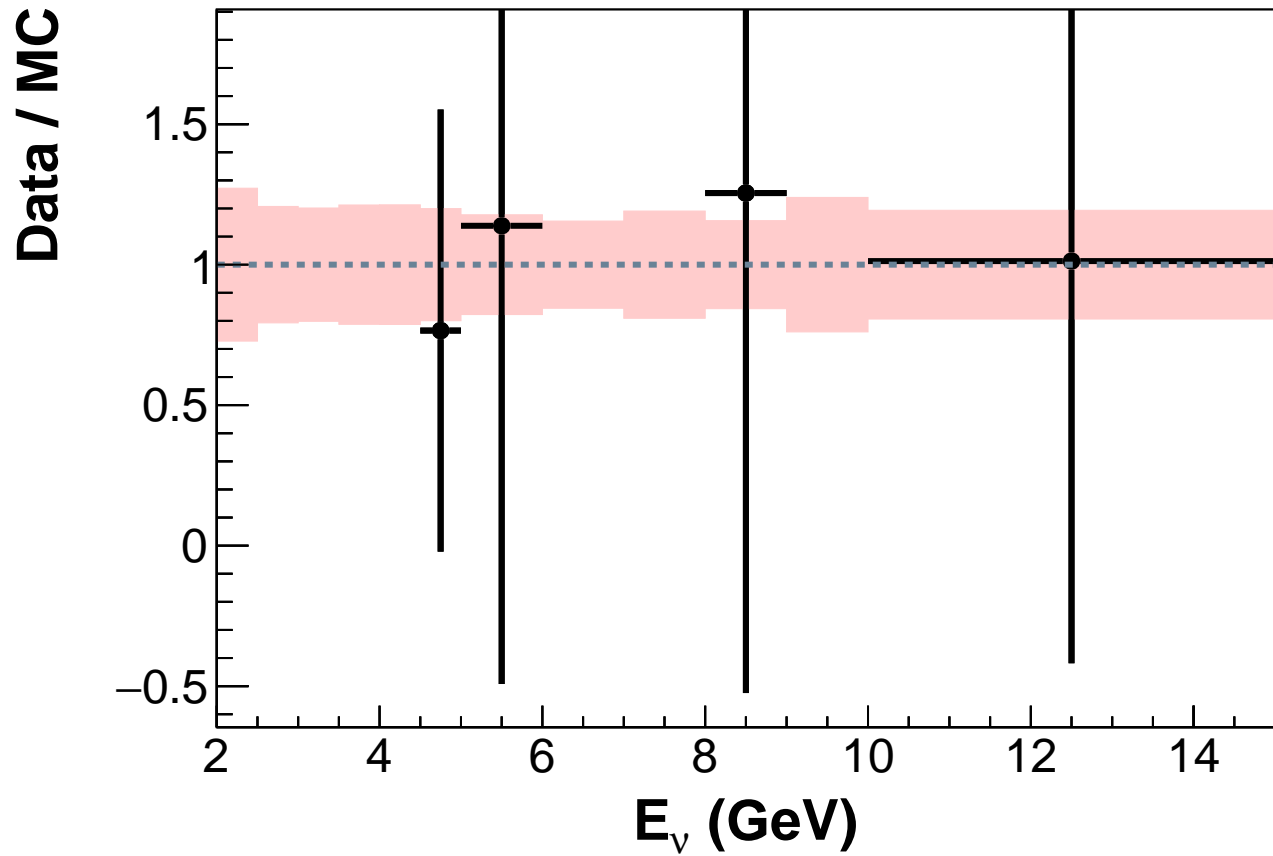
efficiency: selected and true



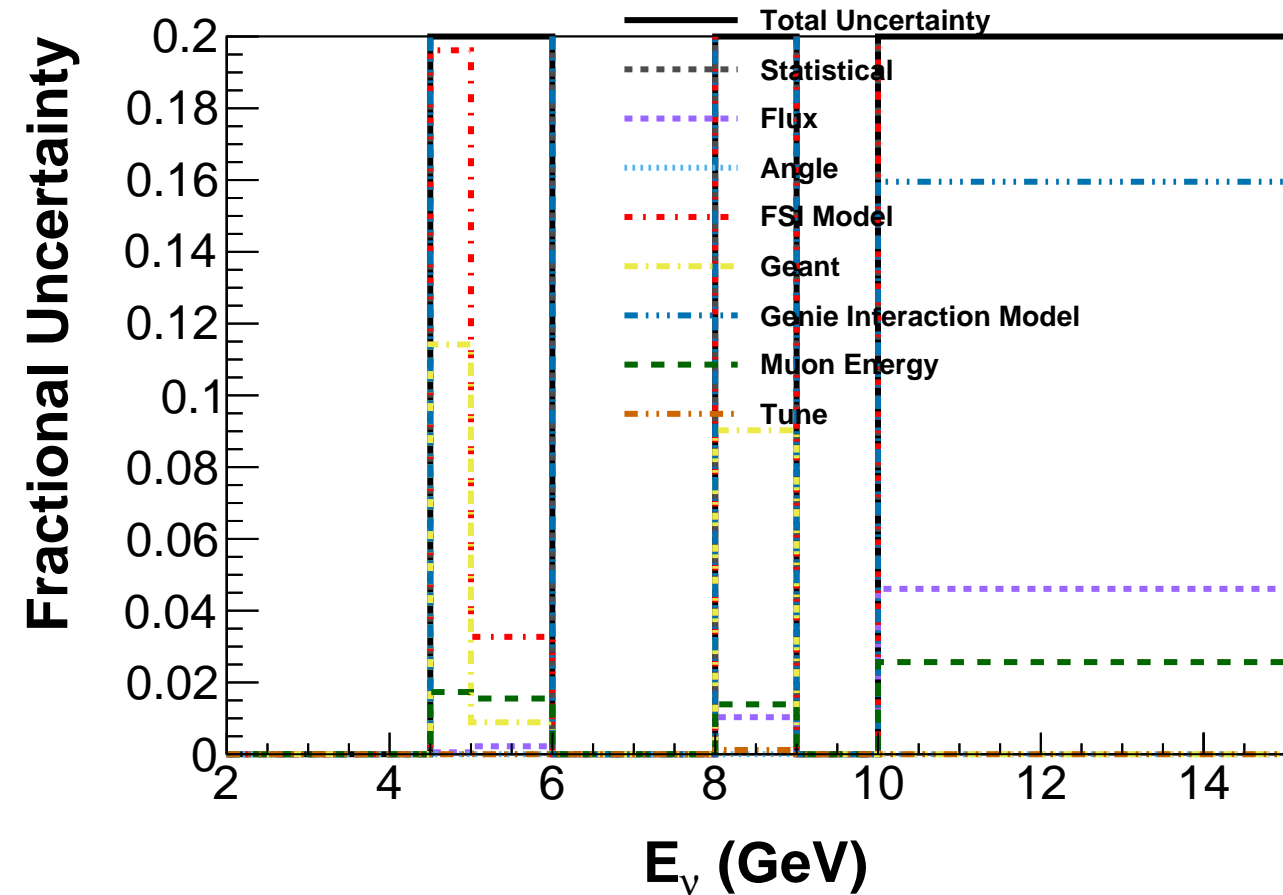
effcorr data vs truth



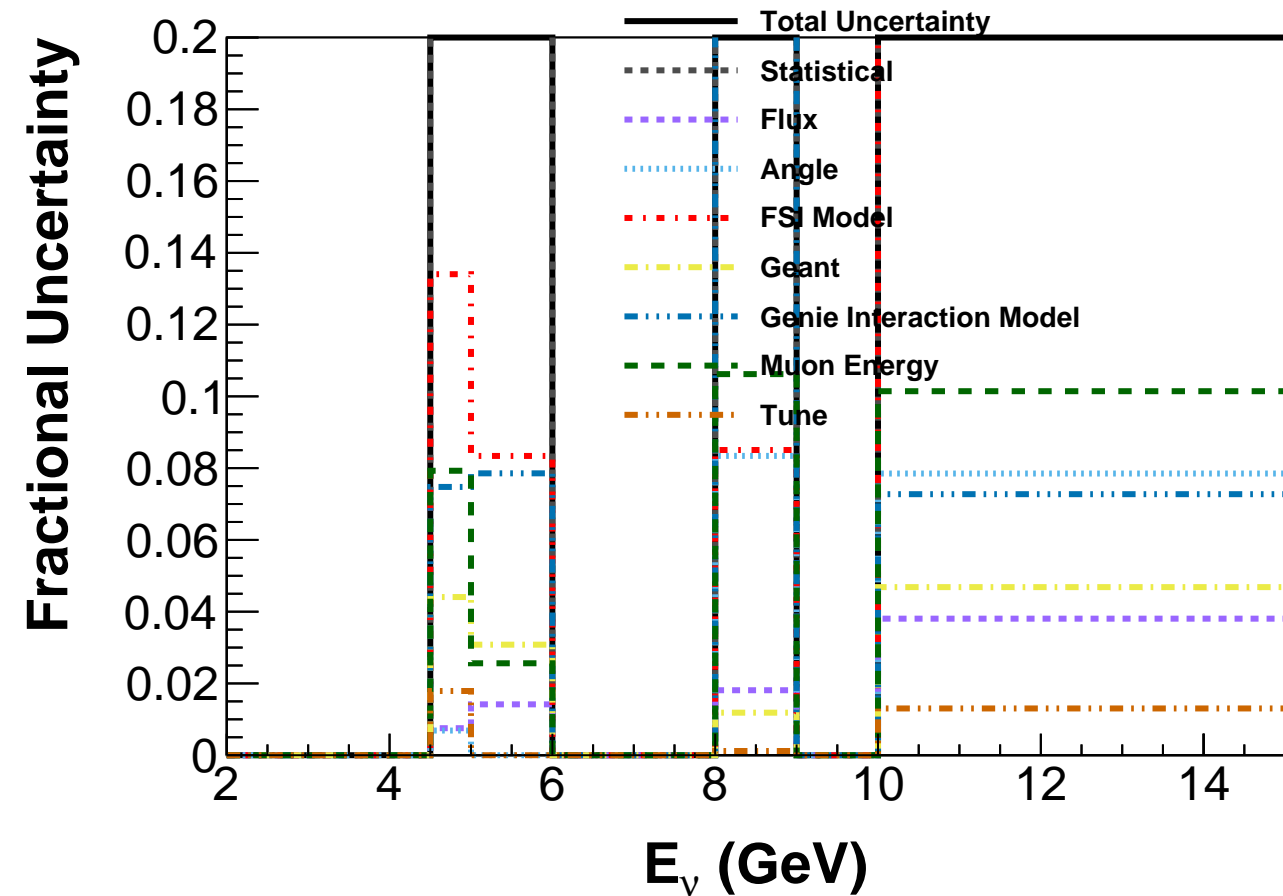
effcorr data vs truth



Efficiency Factor Systematics

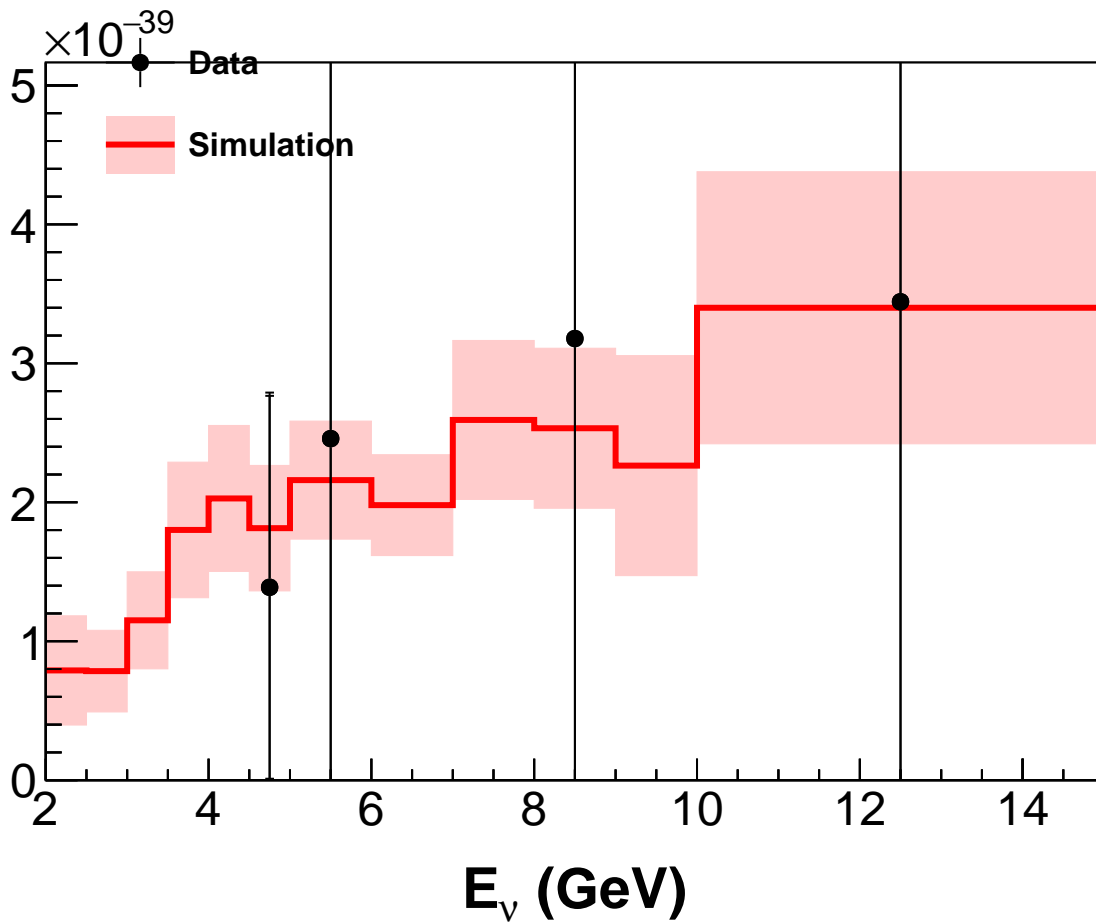


Efficiency Corrected Data Systematics



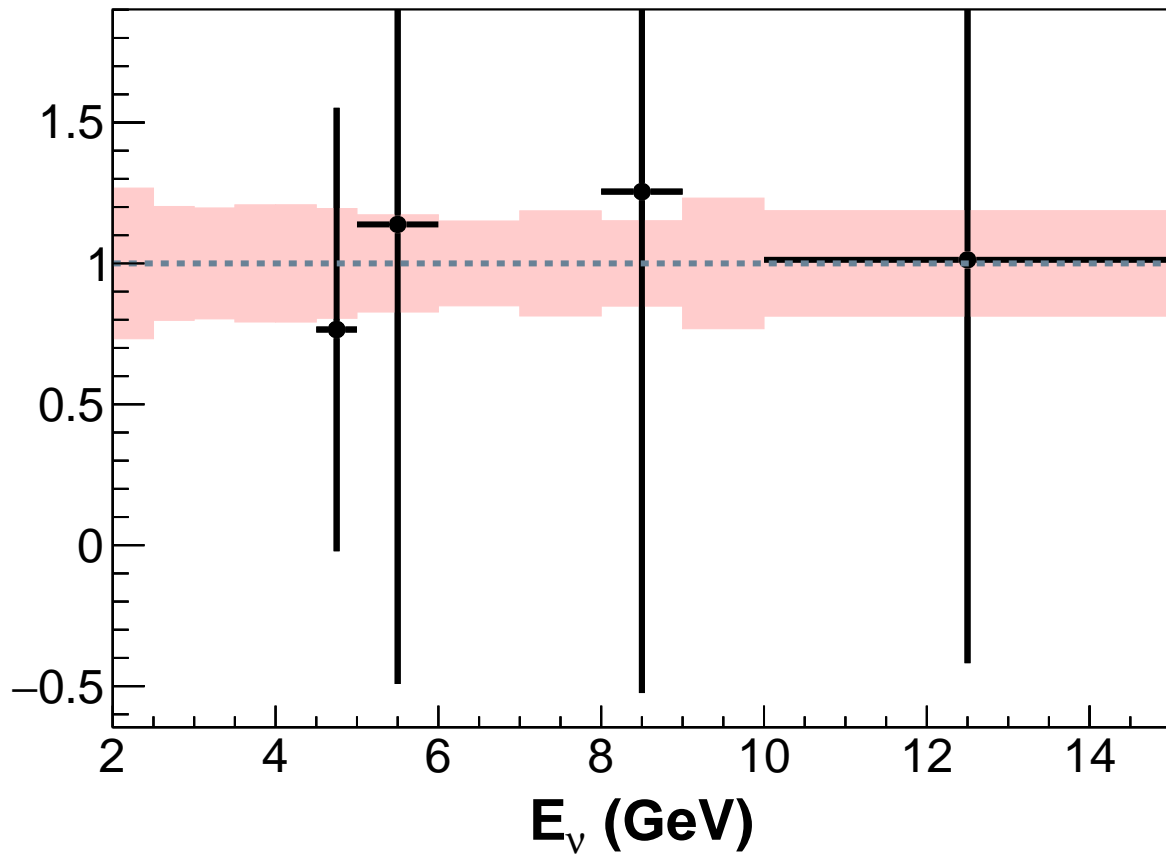
sigma

Counts per unit

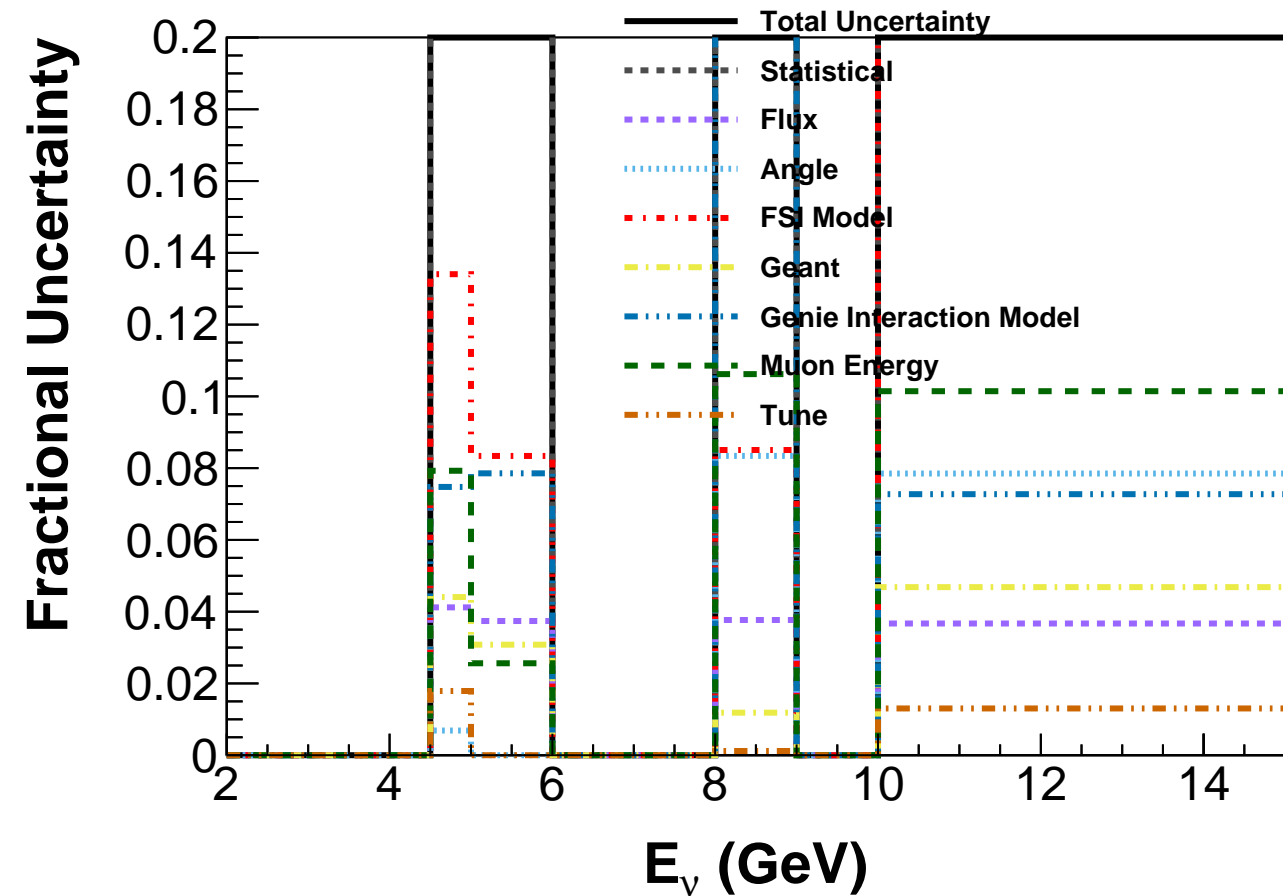


sigma

Data / MC

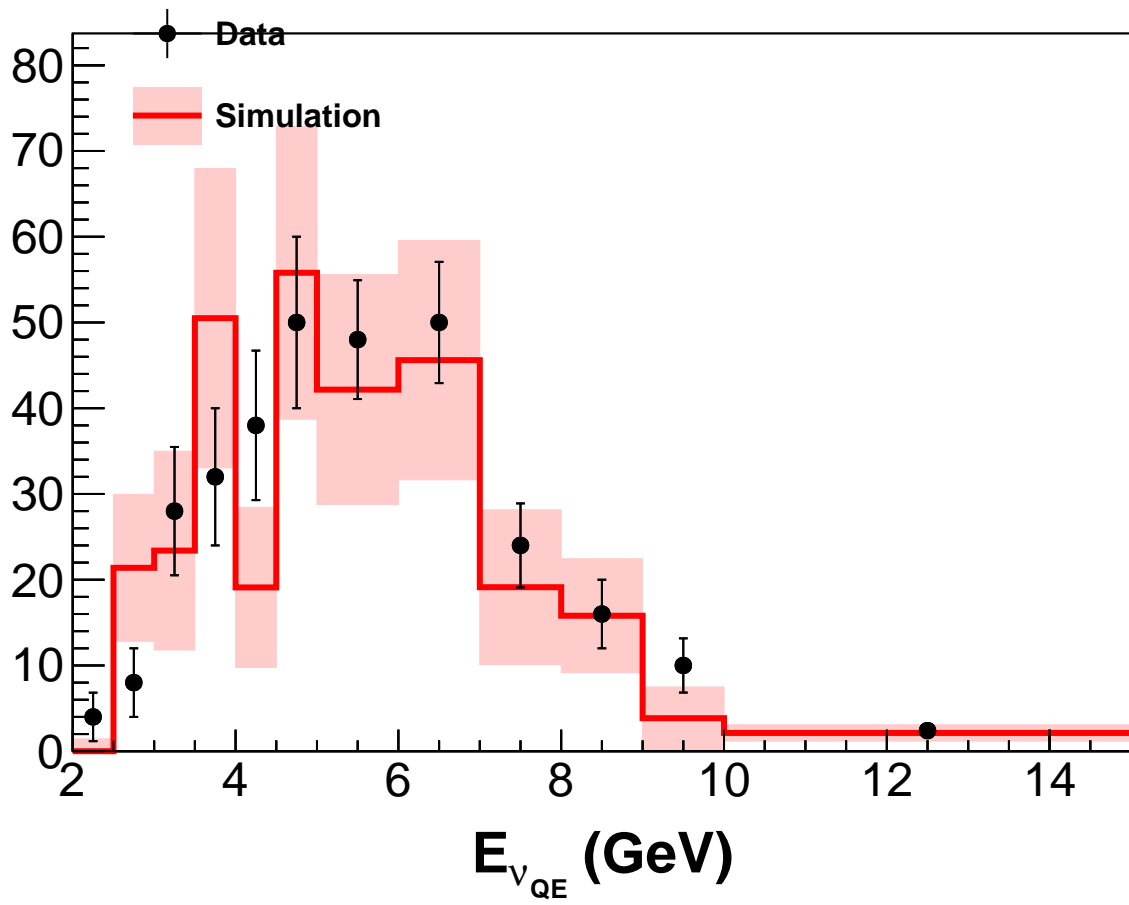


Cross Section Systematics

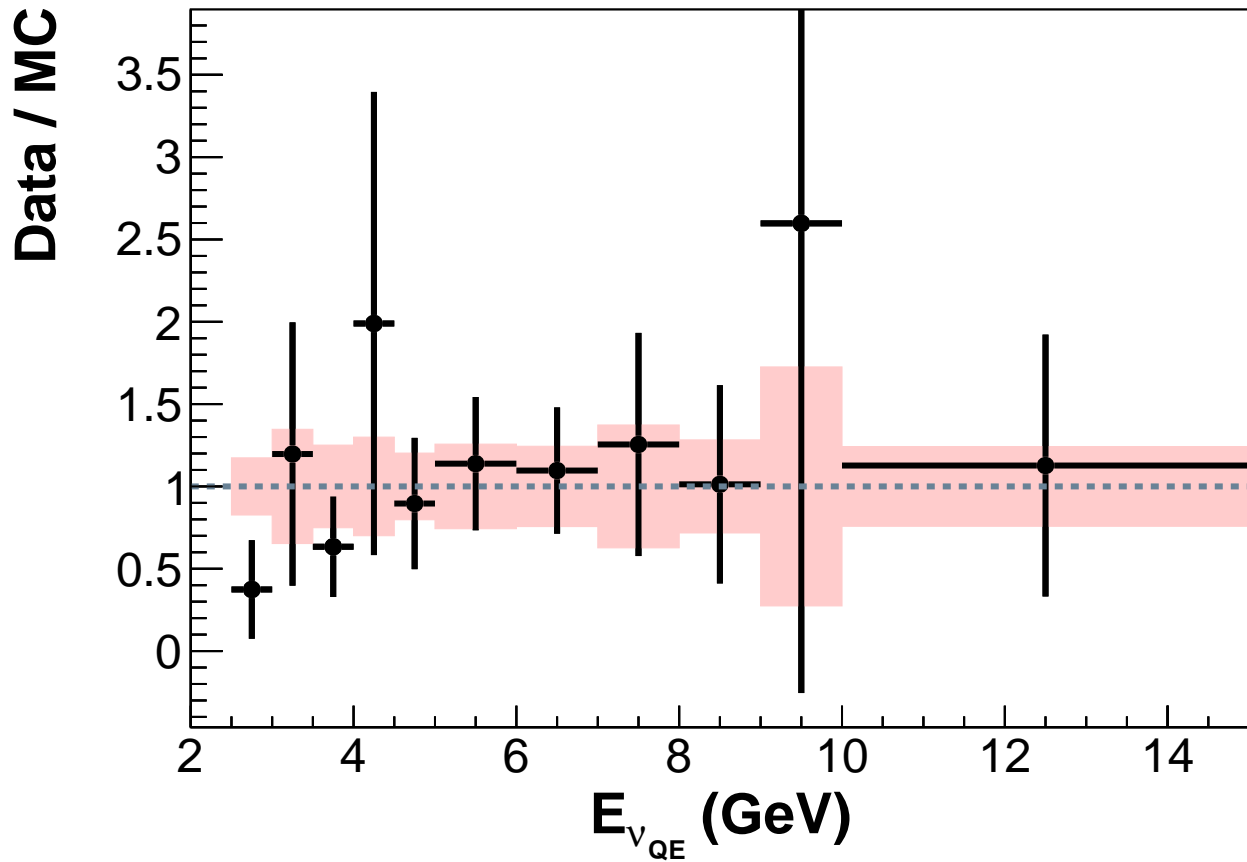


DATA_vs_MC

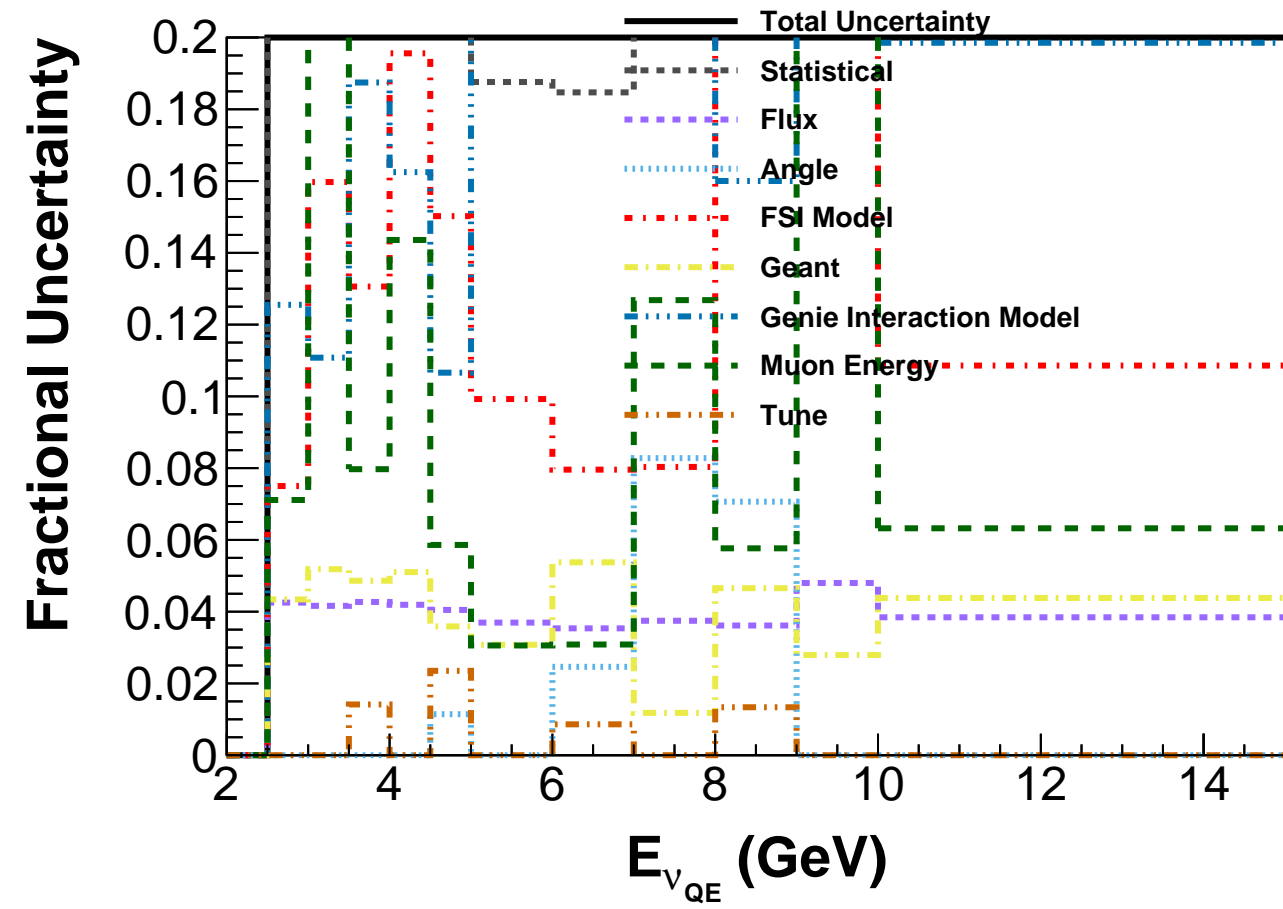
Counts per unit



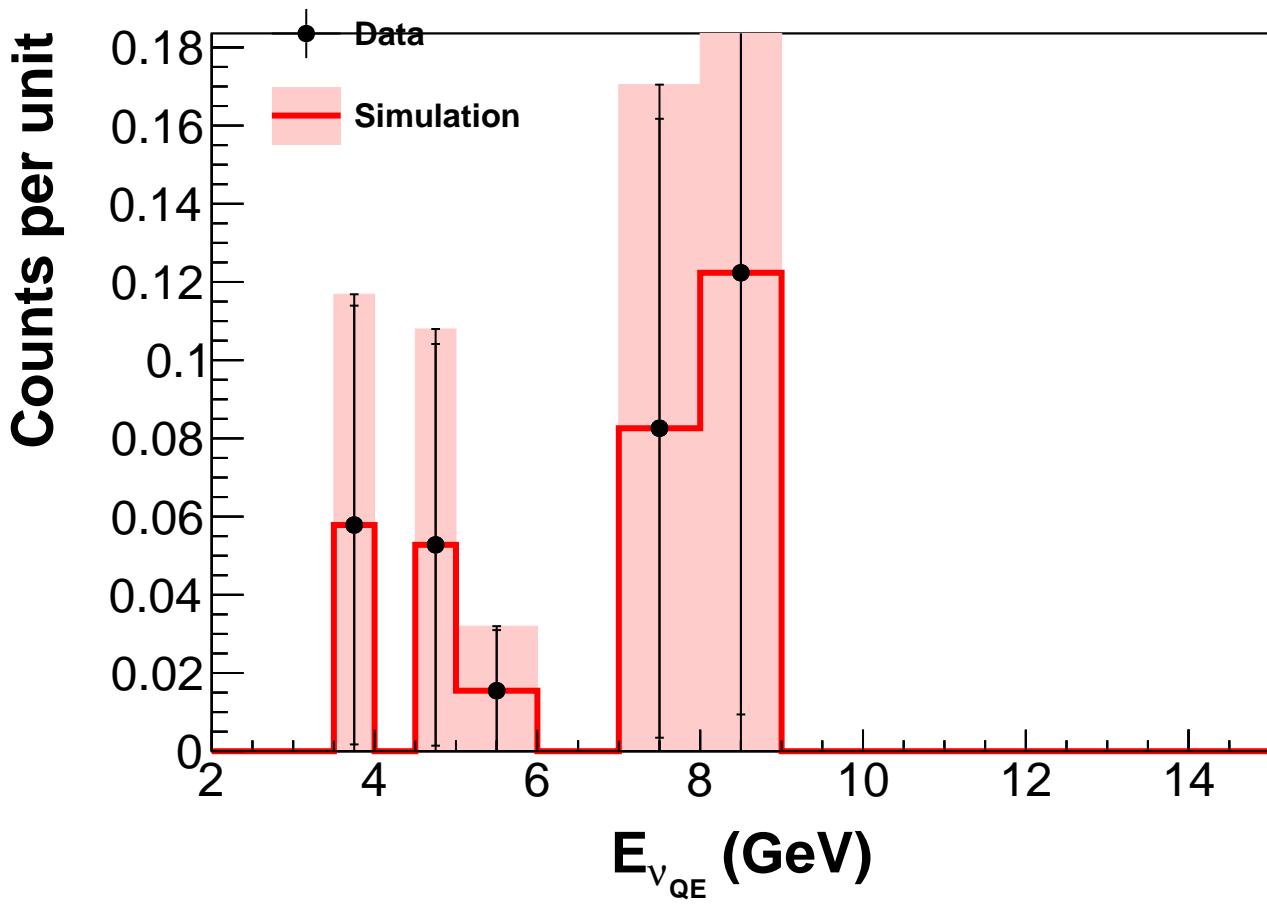
DATA_vs_MC



Raw MC Systematics

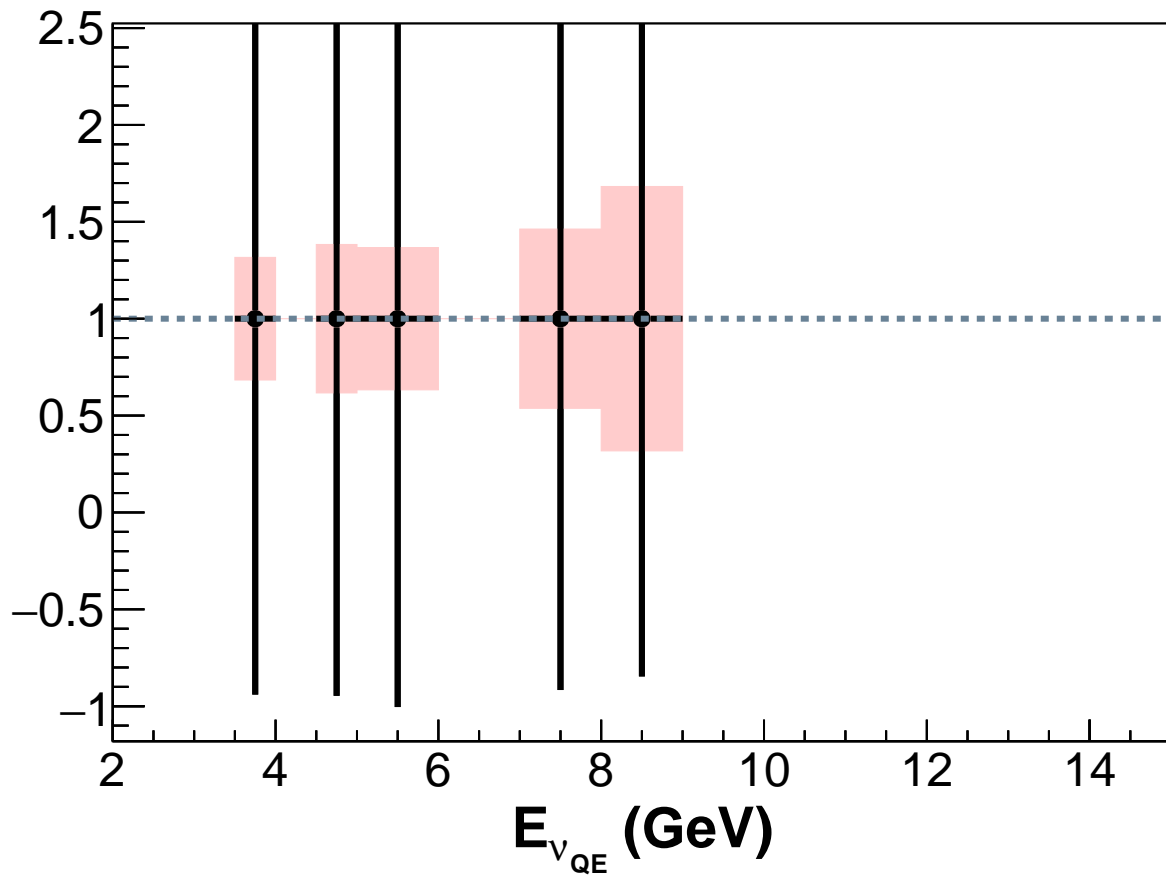


Signal Fraction

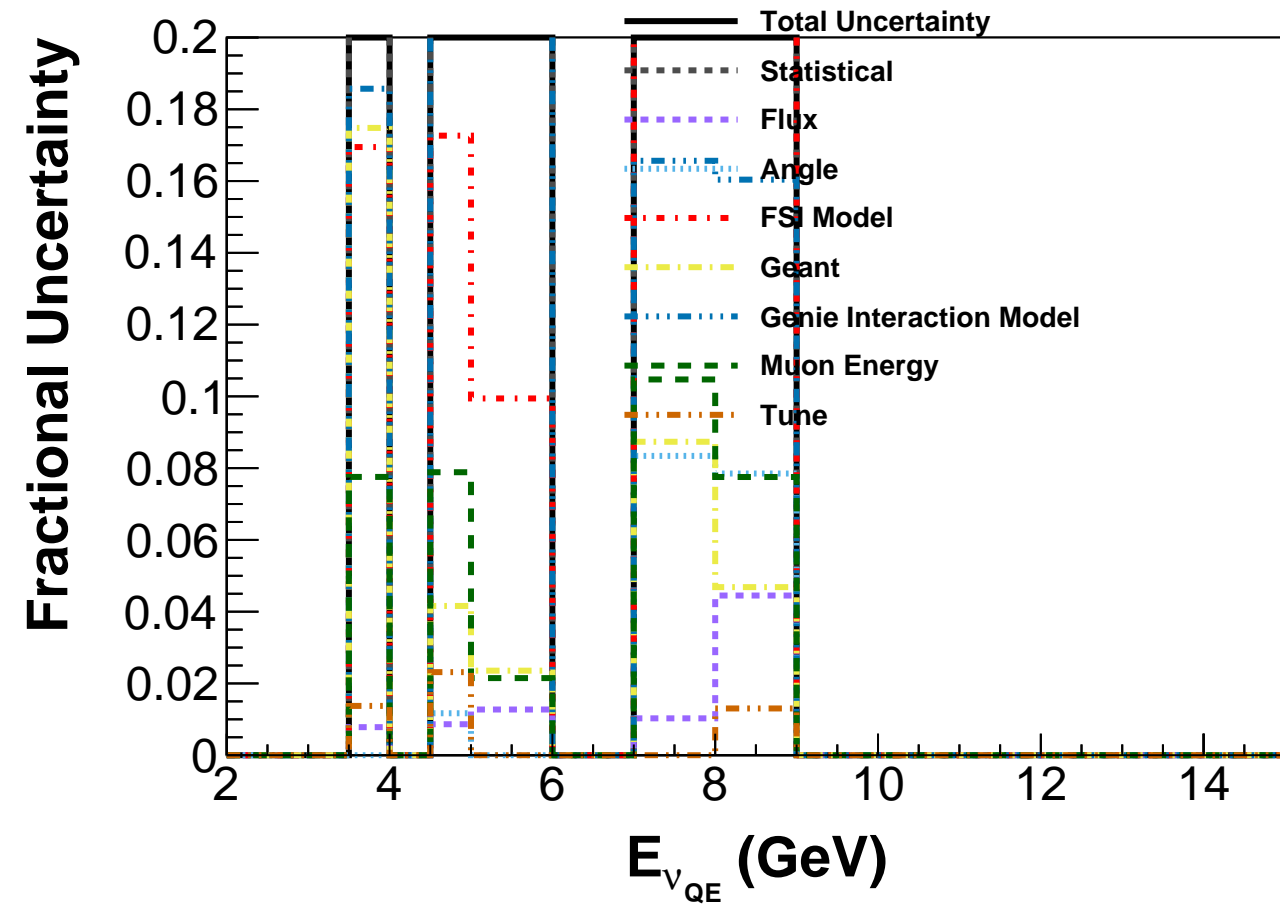


Signal Fraction

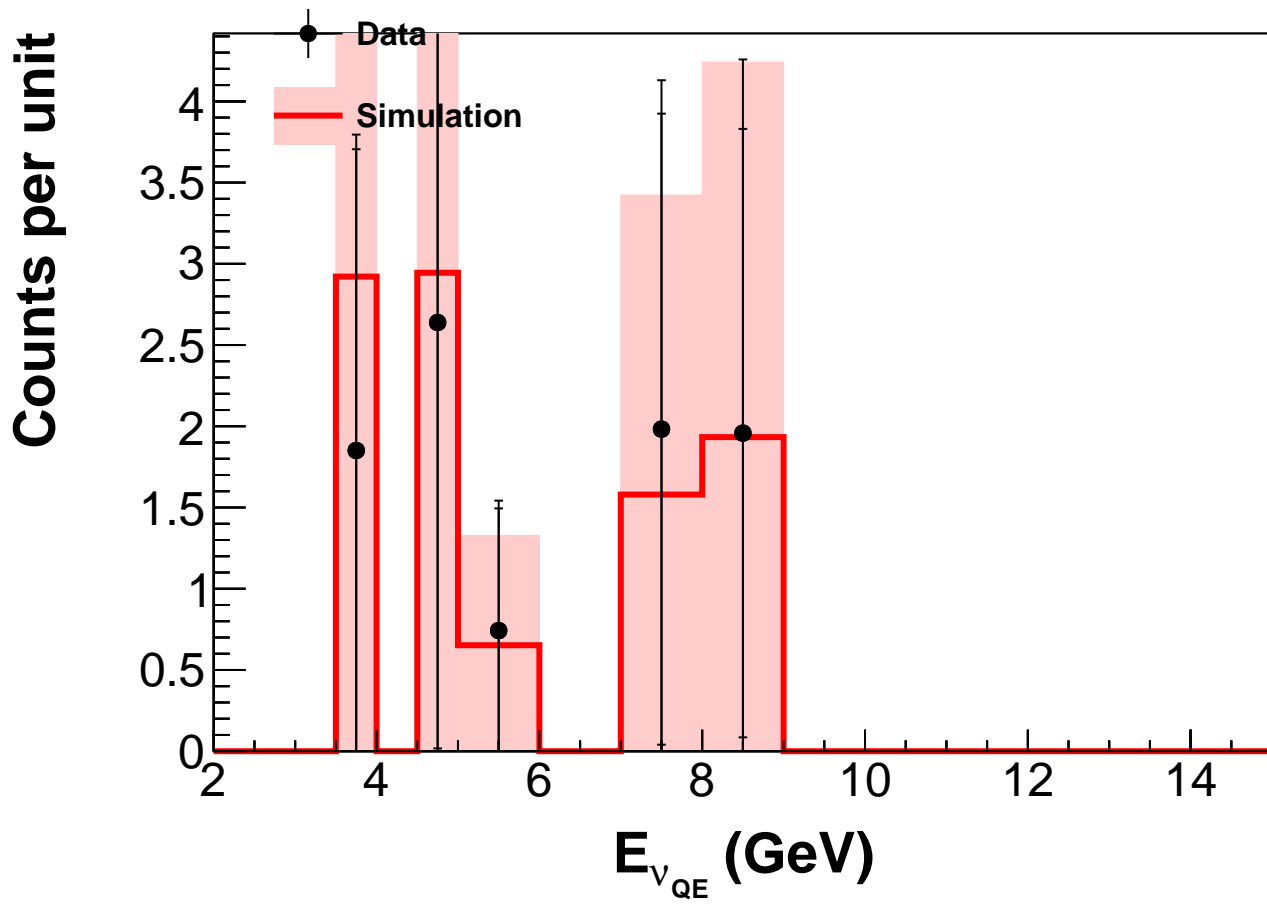
Data / MC



Signal Fraction Systematics

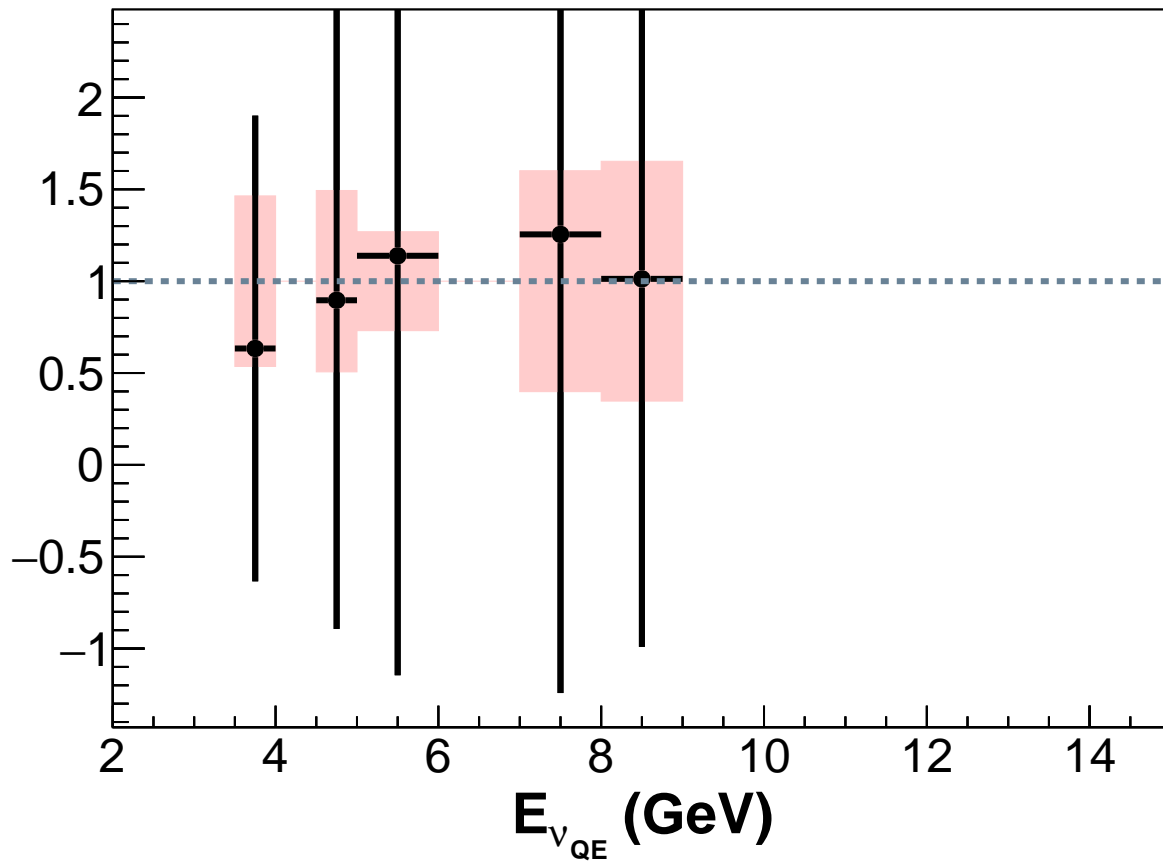


BKGsub vs. MC signal



BKGsub vs. MC signal

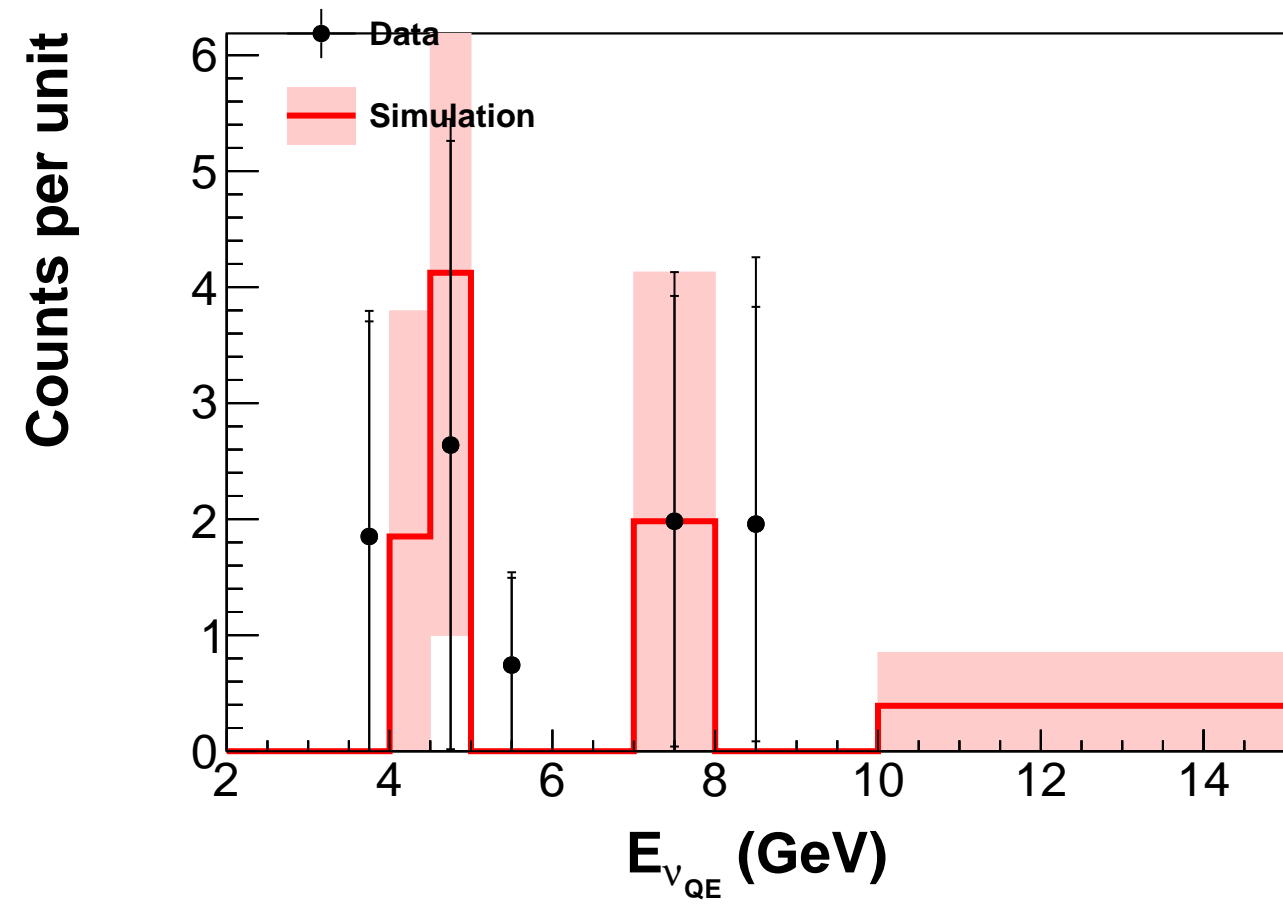
Data / MC



BKGsub Systematics

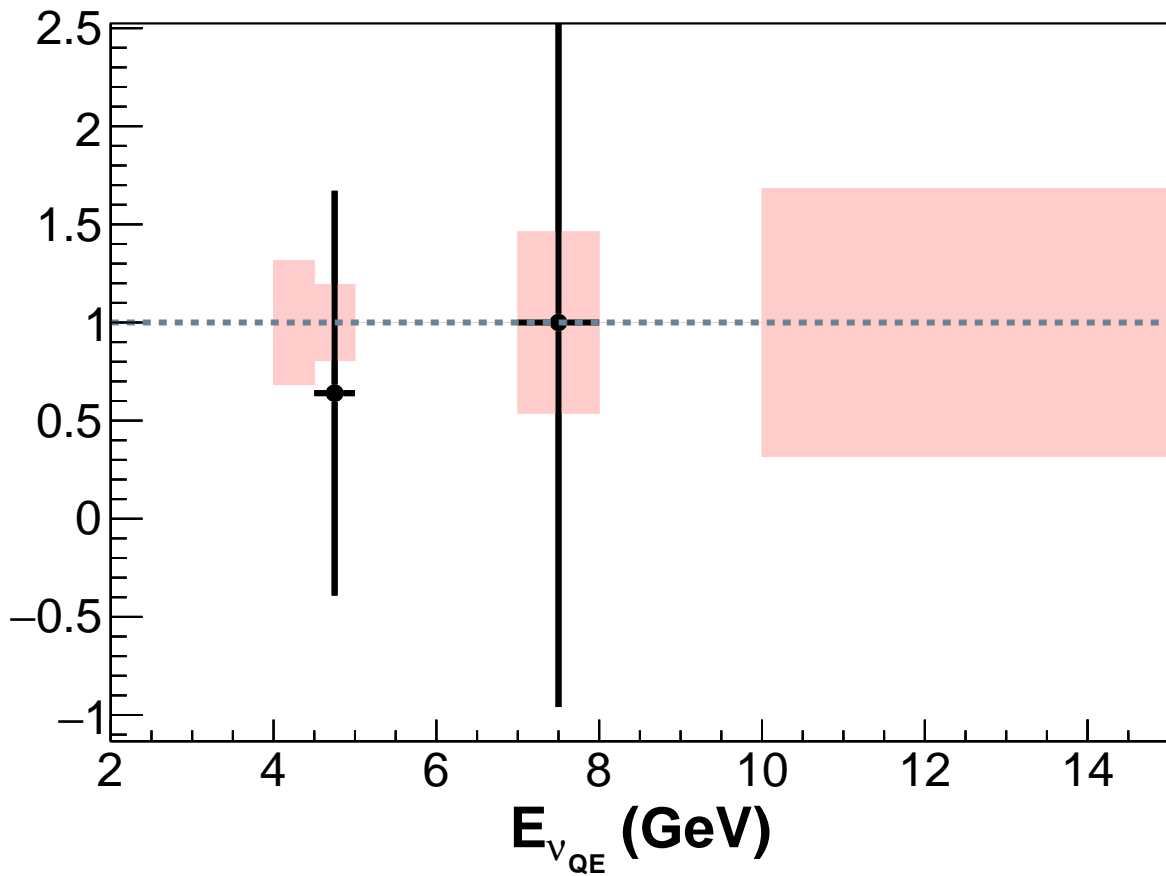

$$E_{\nu_{QE}} \text{ (GeV)}$$

Data Before and After Unsmearing

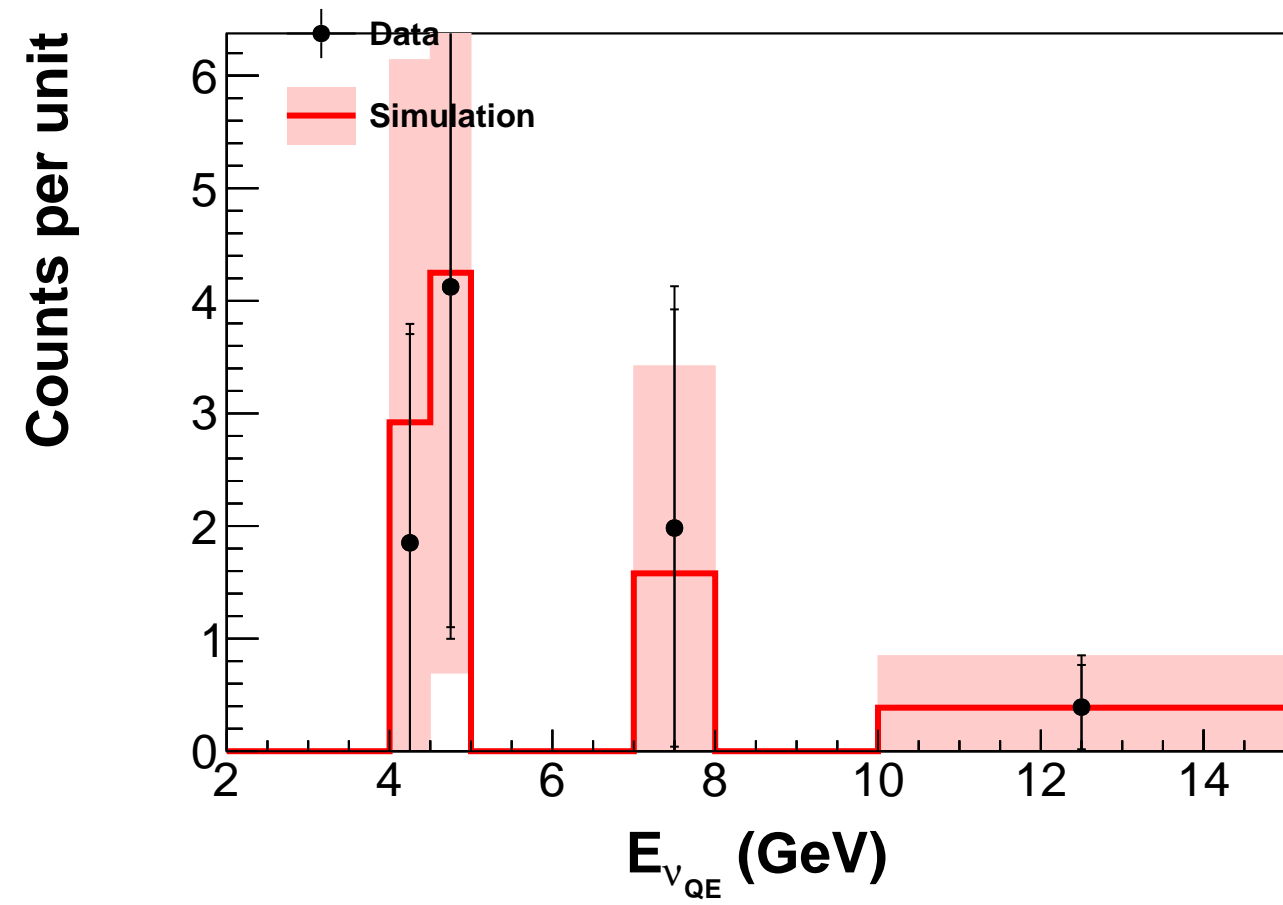


Data Before and After Unsmearing

Data / MC

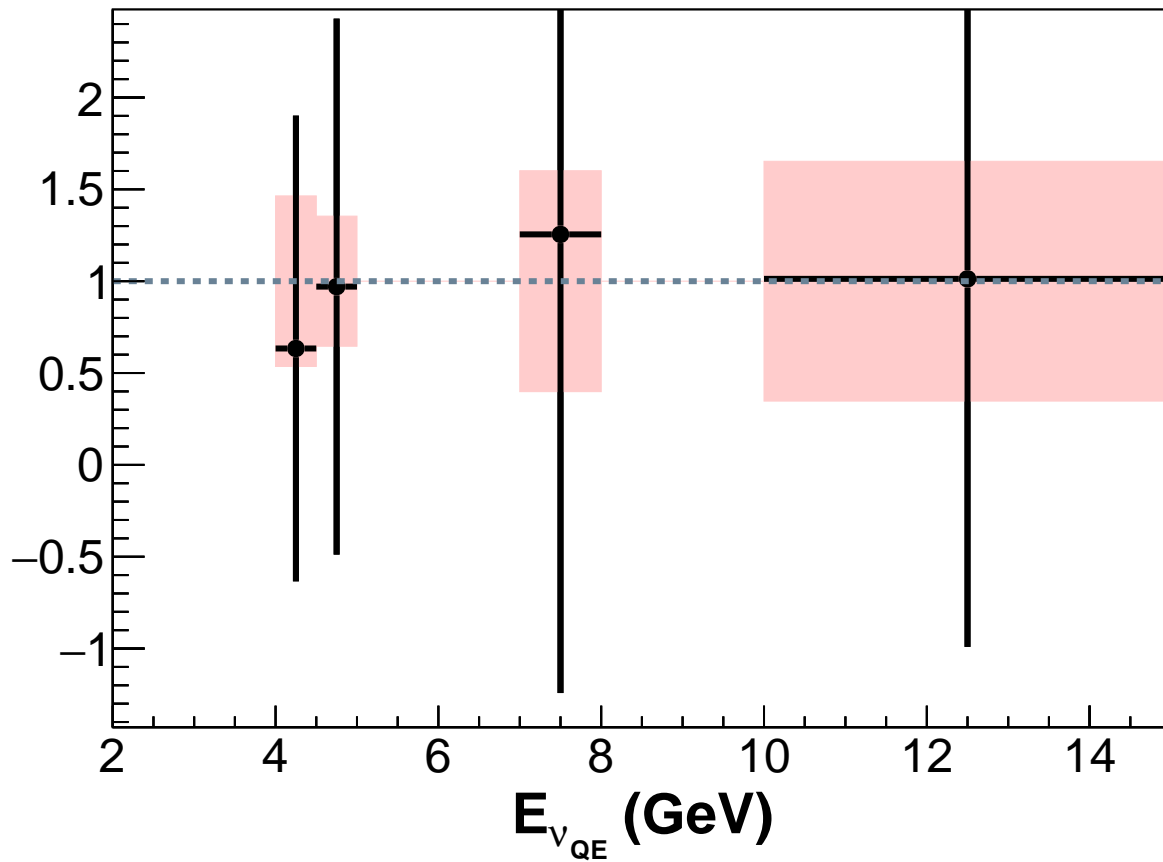


Unsmeared Data Compared to Selected MC



Unsmeared Data Compared to Selected MC

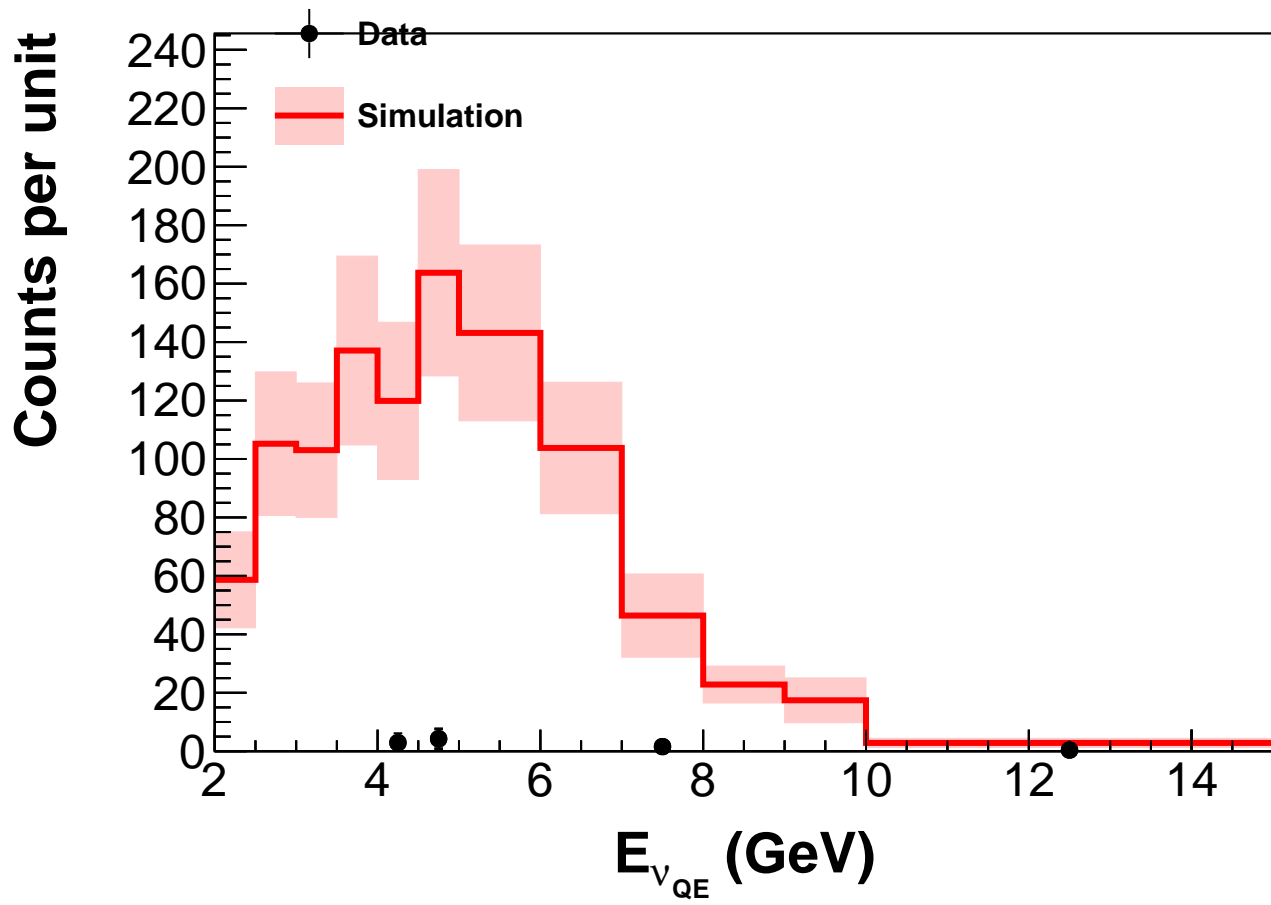
Data / MC



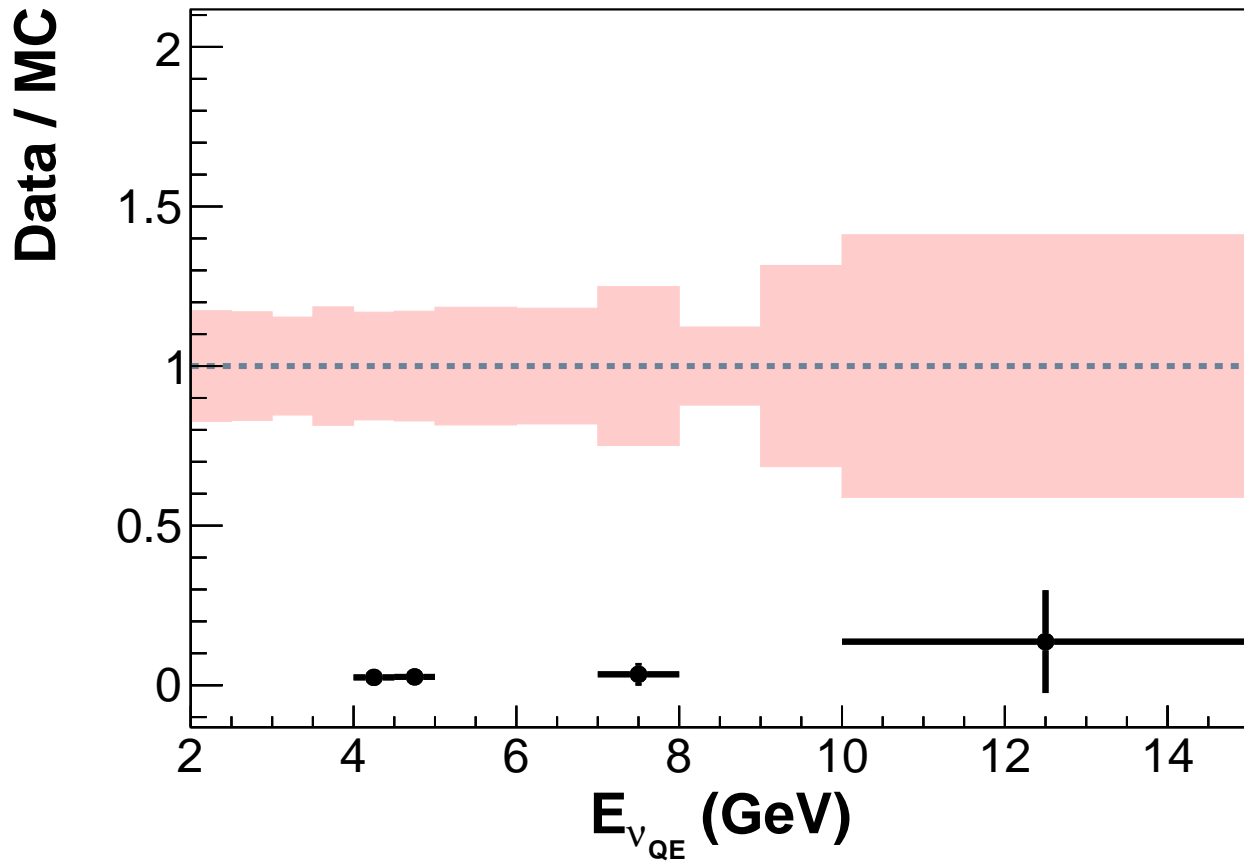
Unsmeared Data Systematics


$$E_{\nu_{QE}} \text{ (GeV)}$$

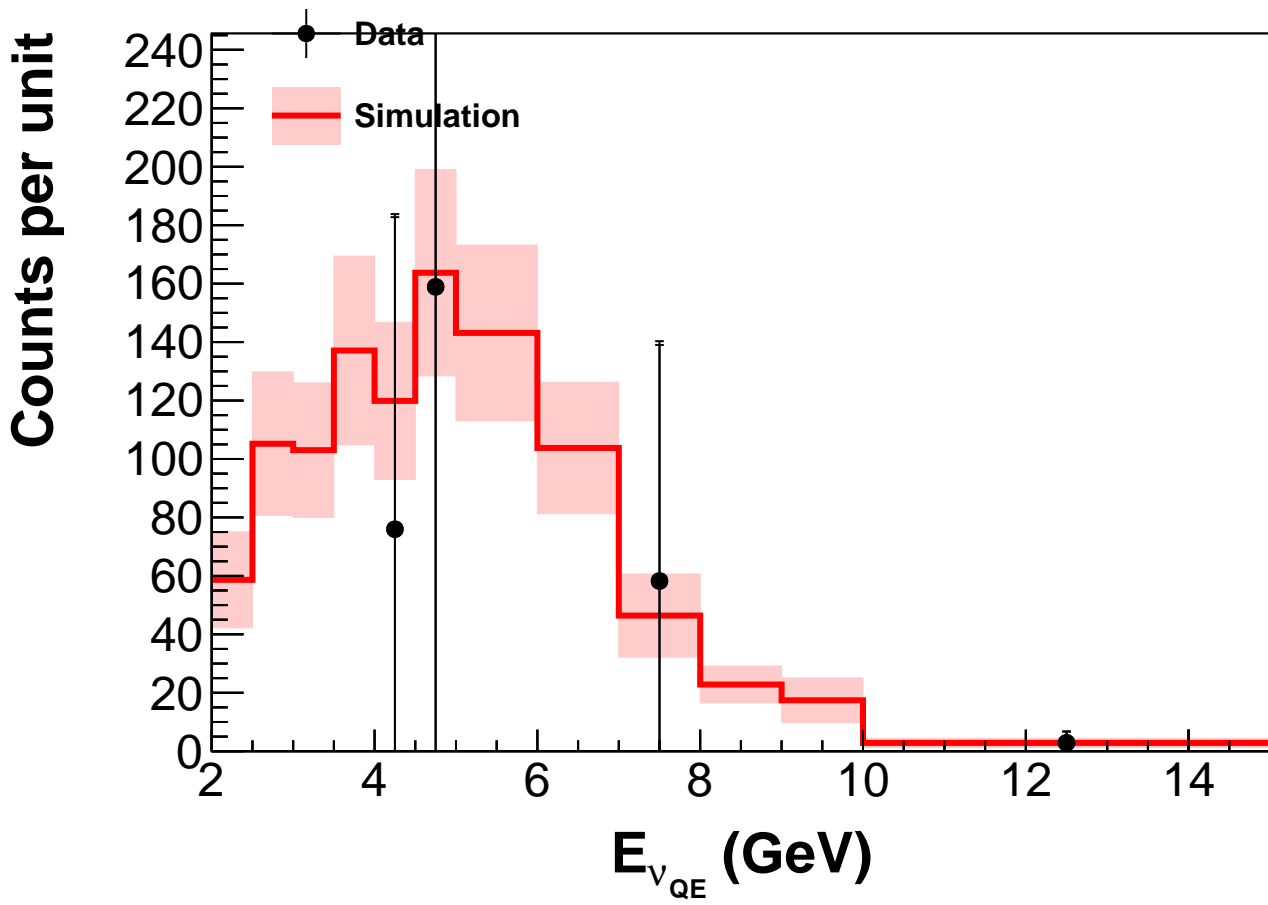
efficiency: selected and true



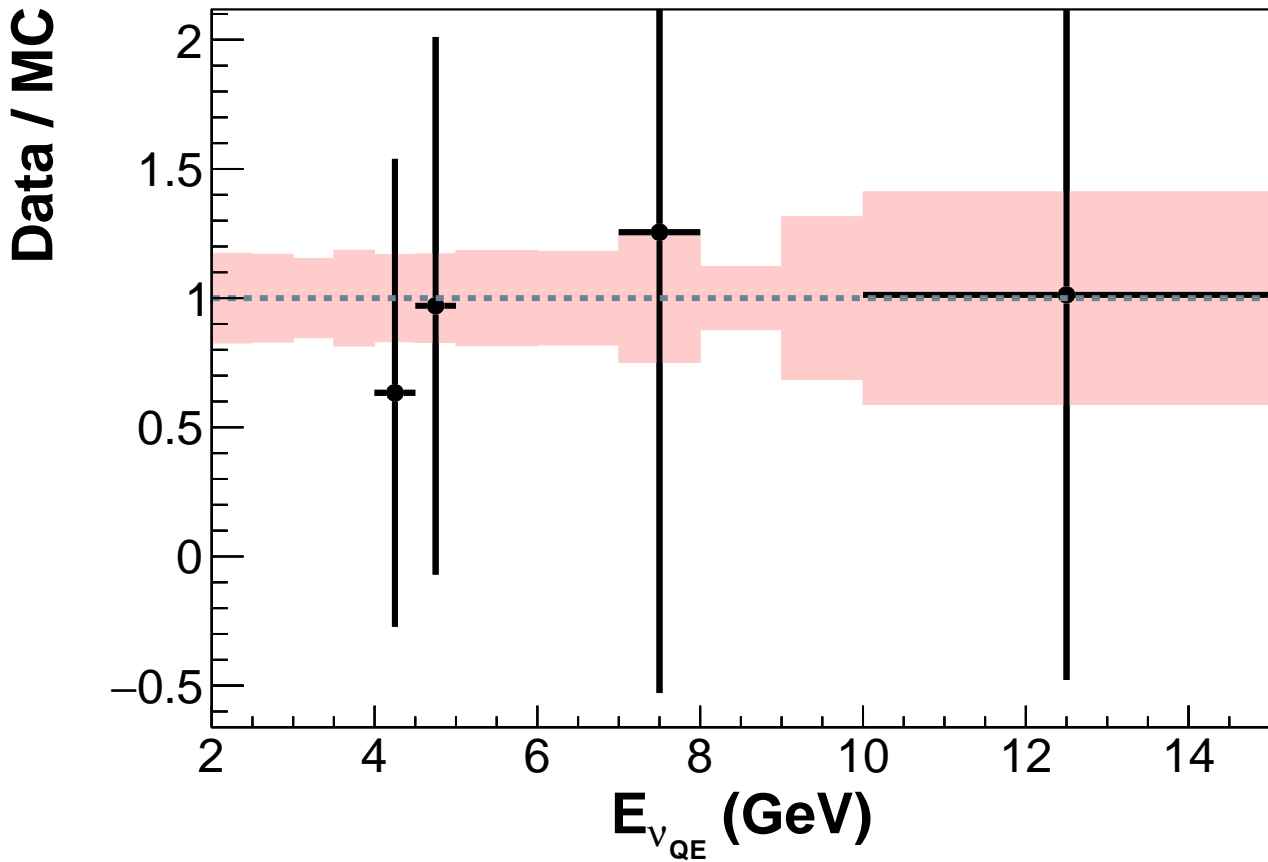
efficiency: selected and true



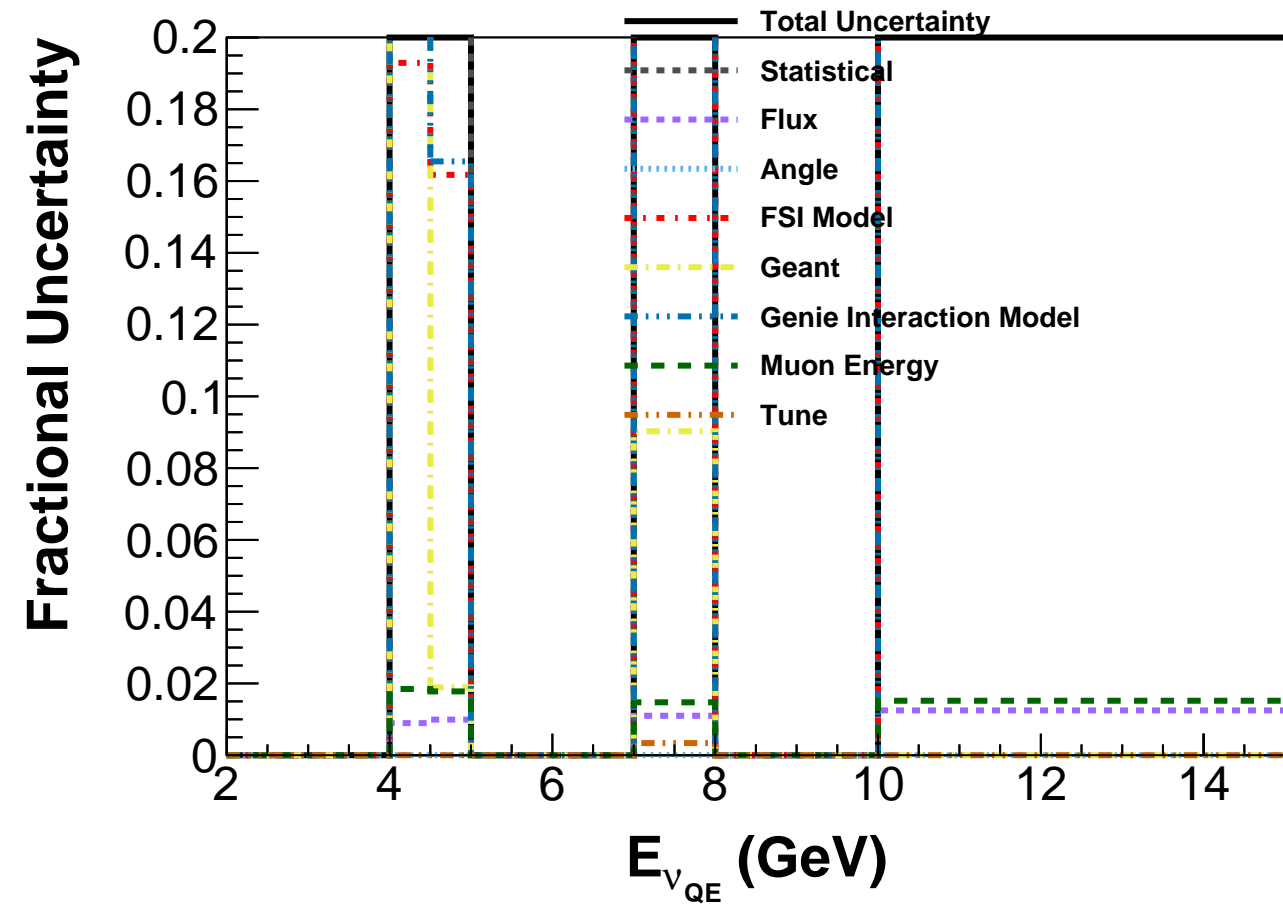
effcorr data vs truth



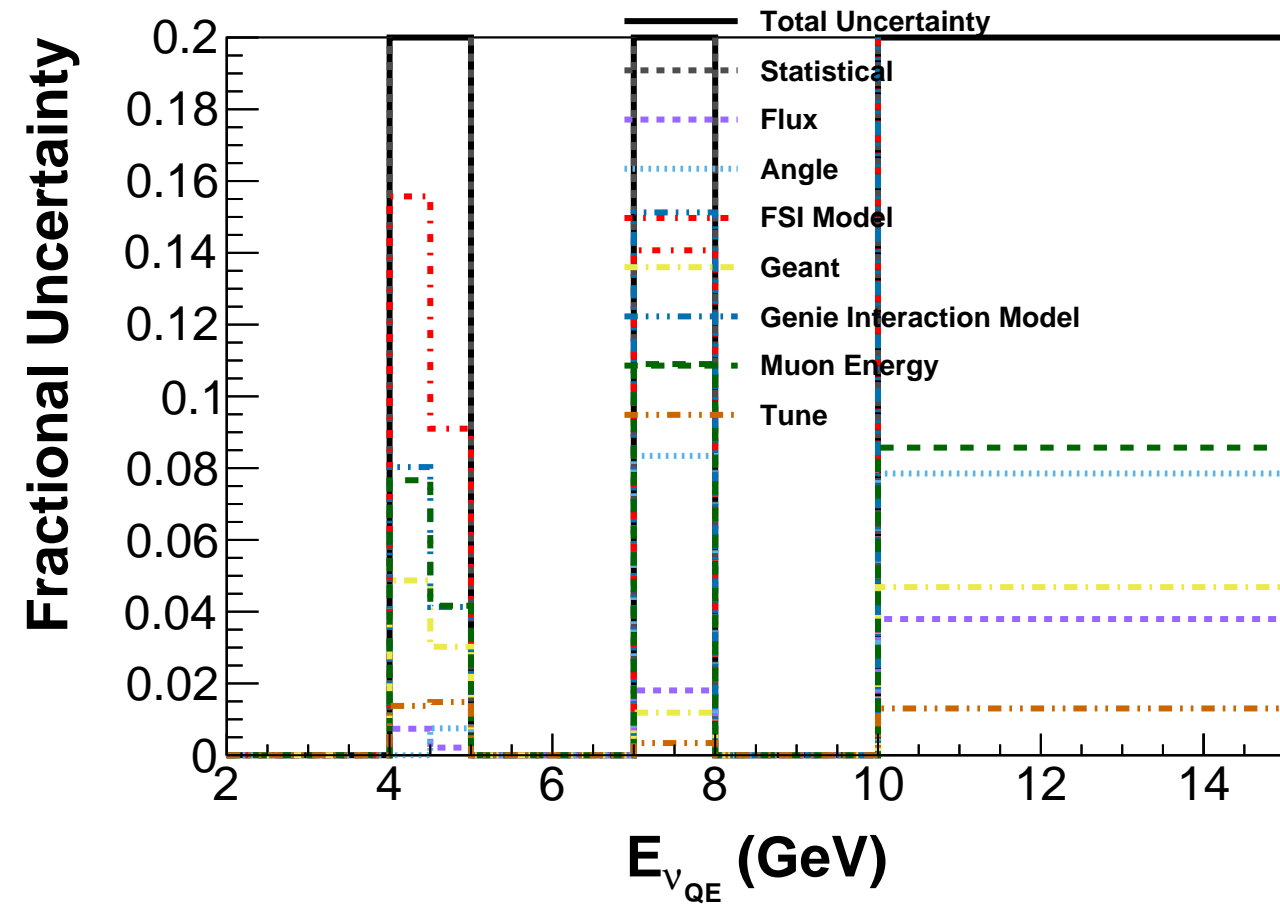
effcorr data vs truth



Efficiency Factor Systematics

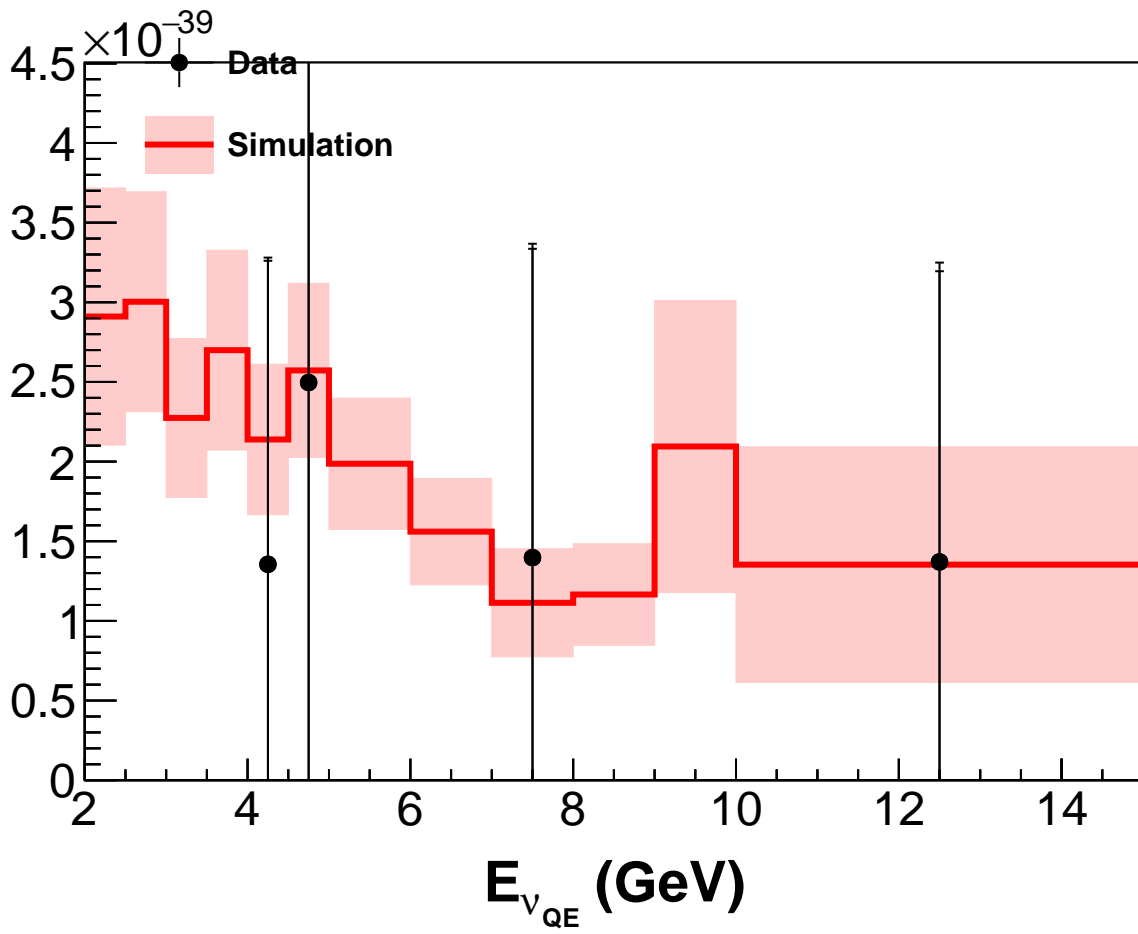


Efficiency Corrected Data Systematics



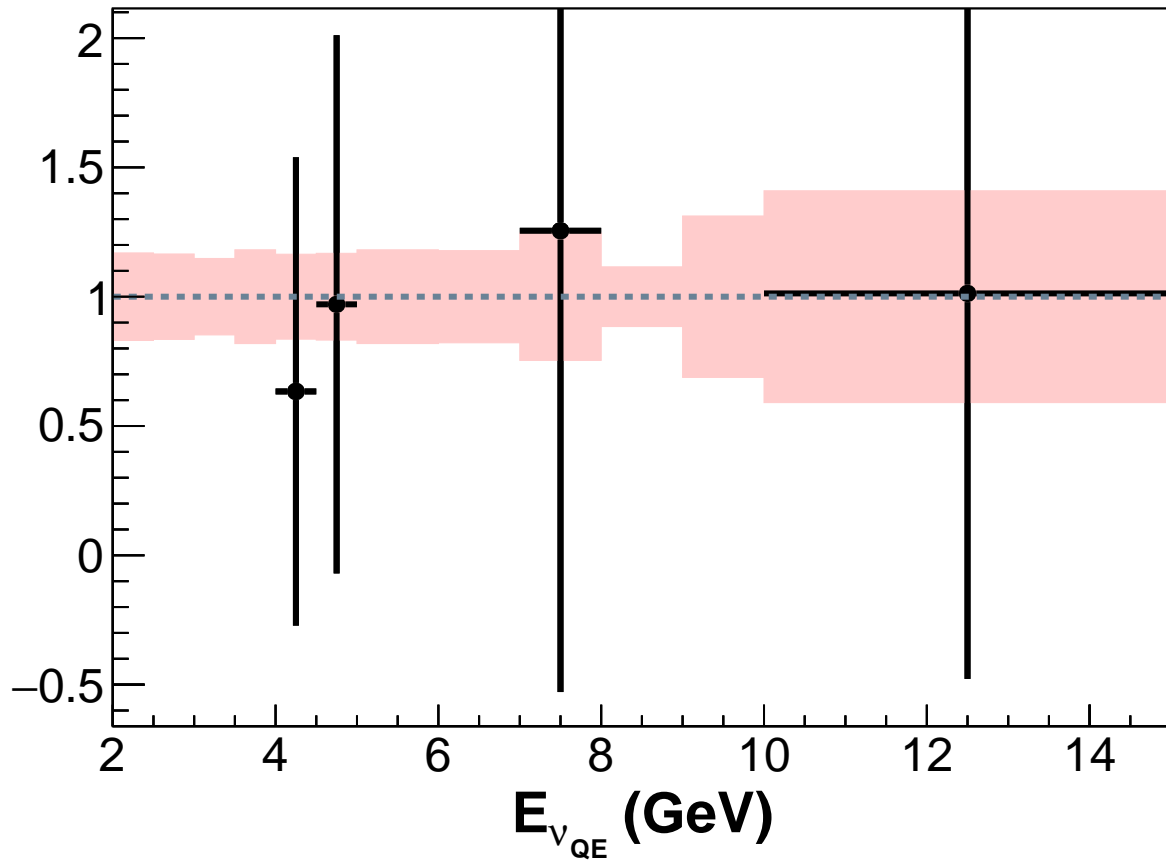
sigma

Counts per unit

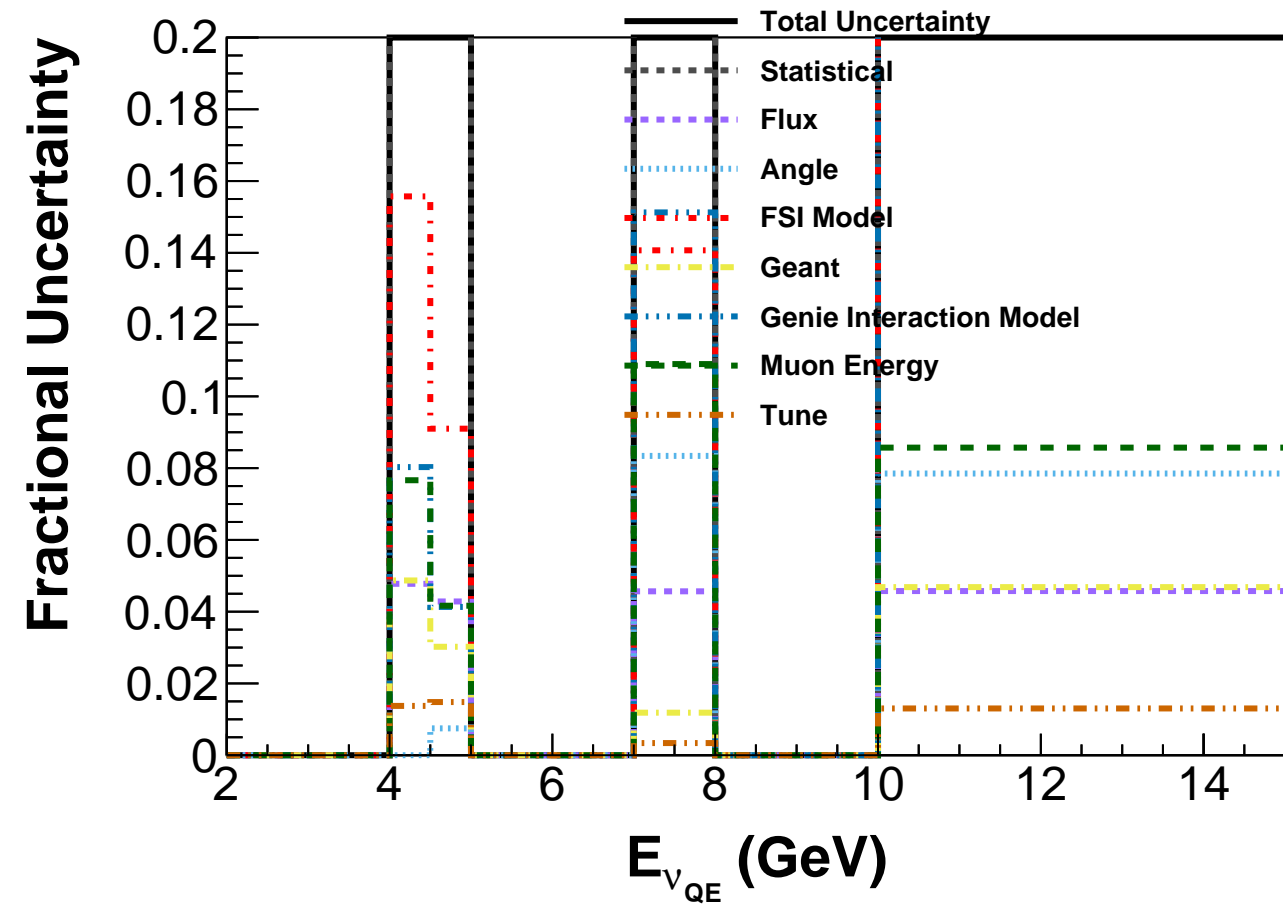


sigma

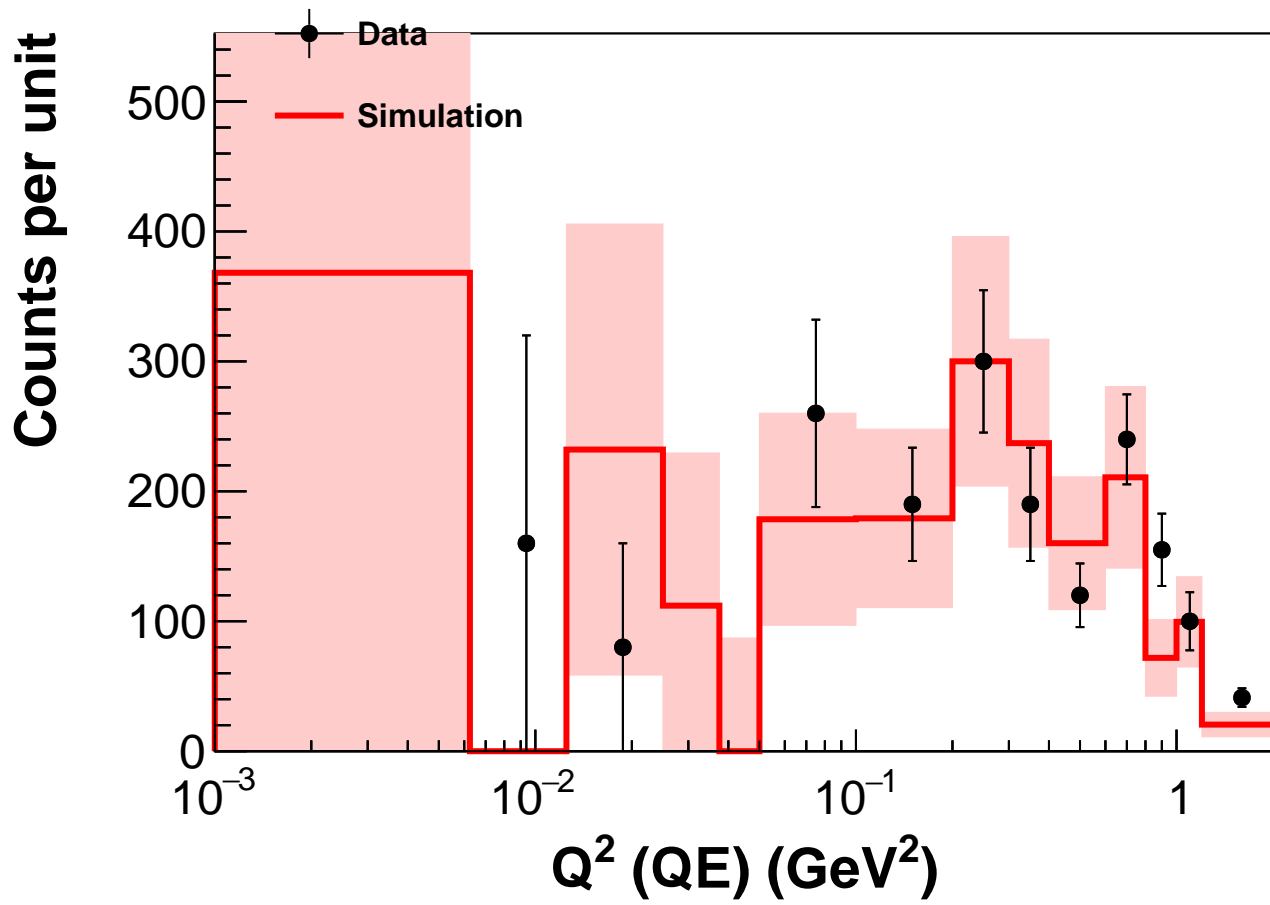
Data / MC



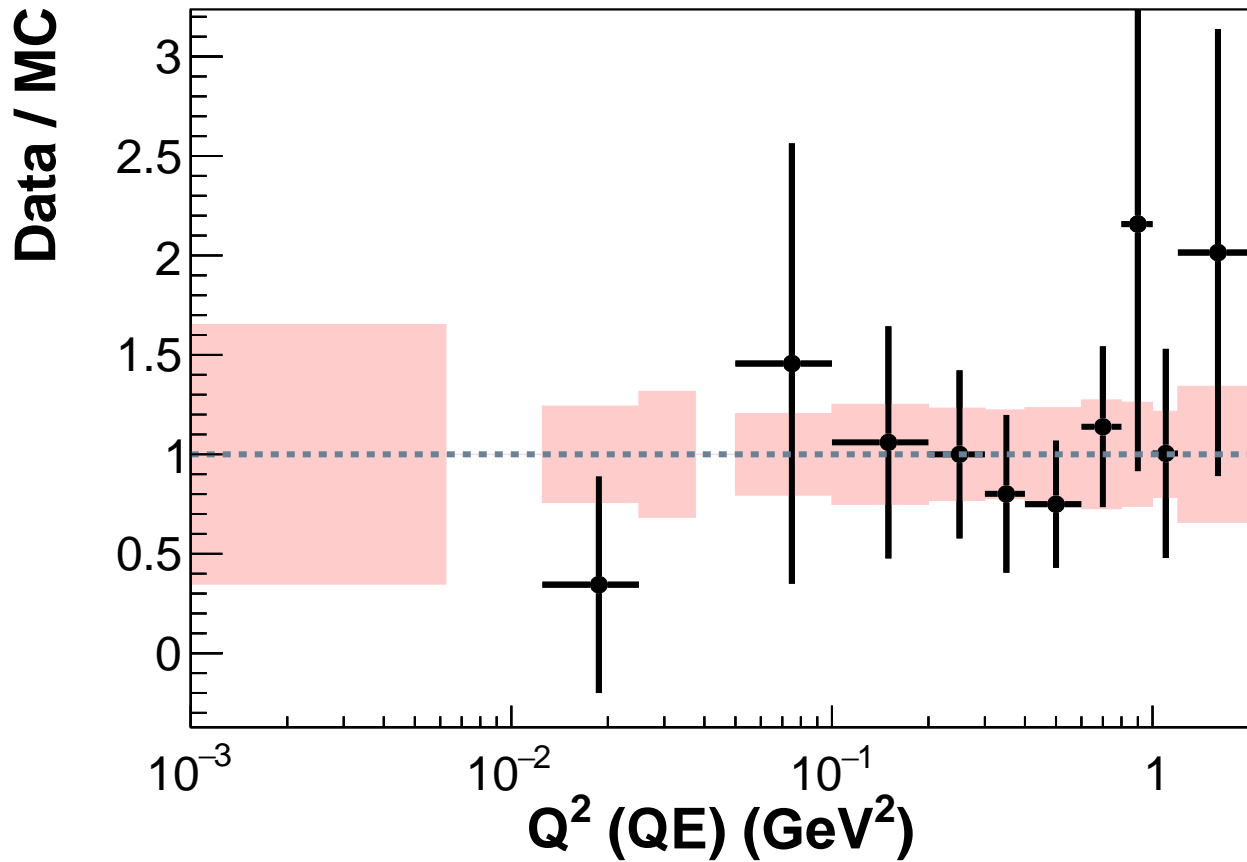
Cross Section Systematics



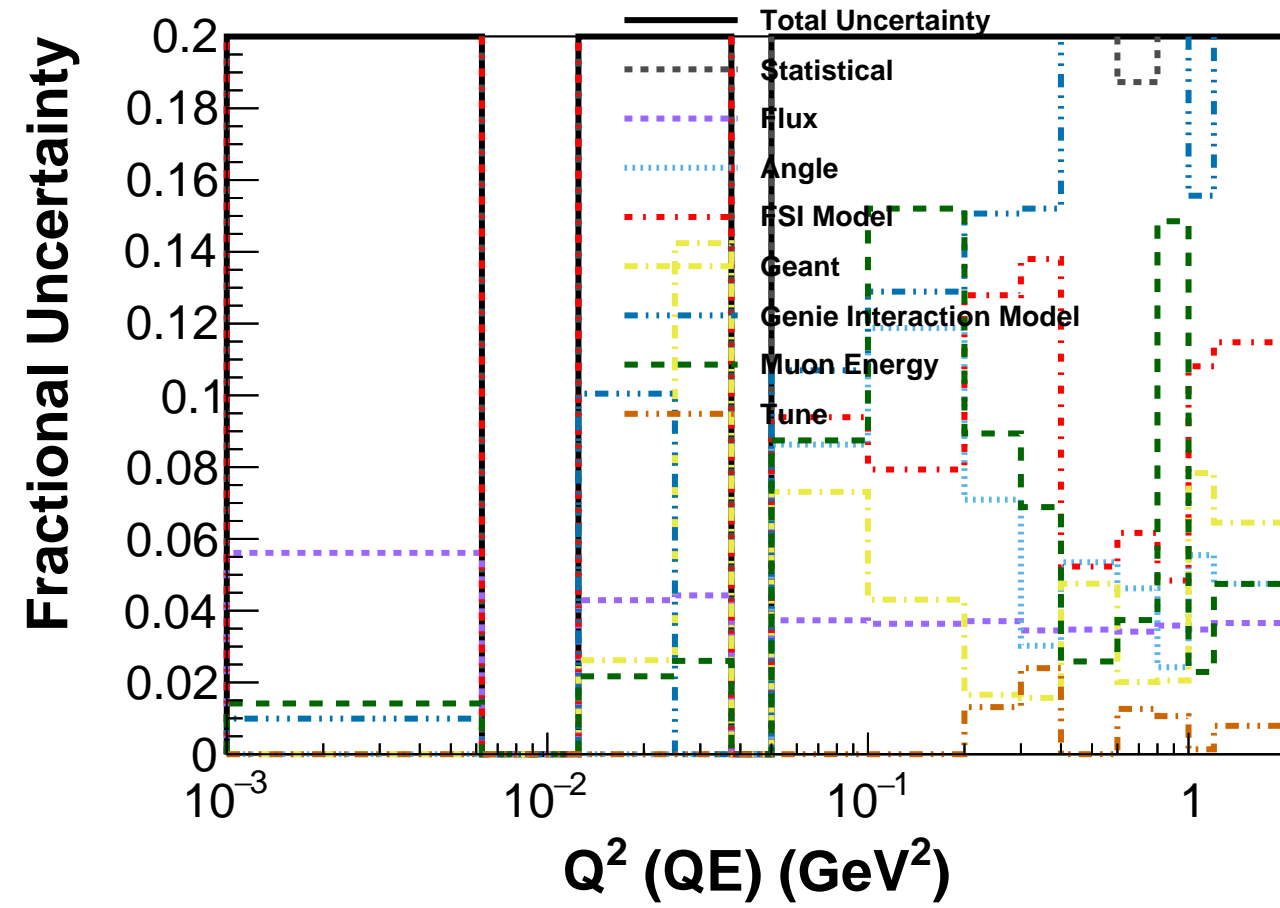
DATA_vs_MC



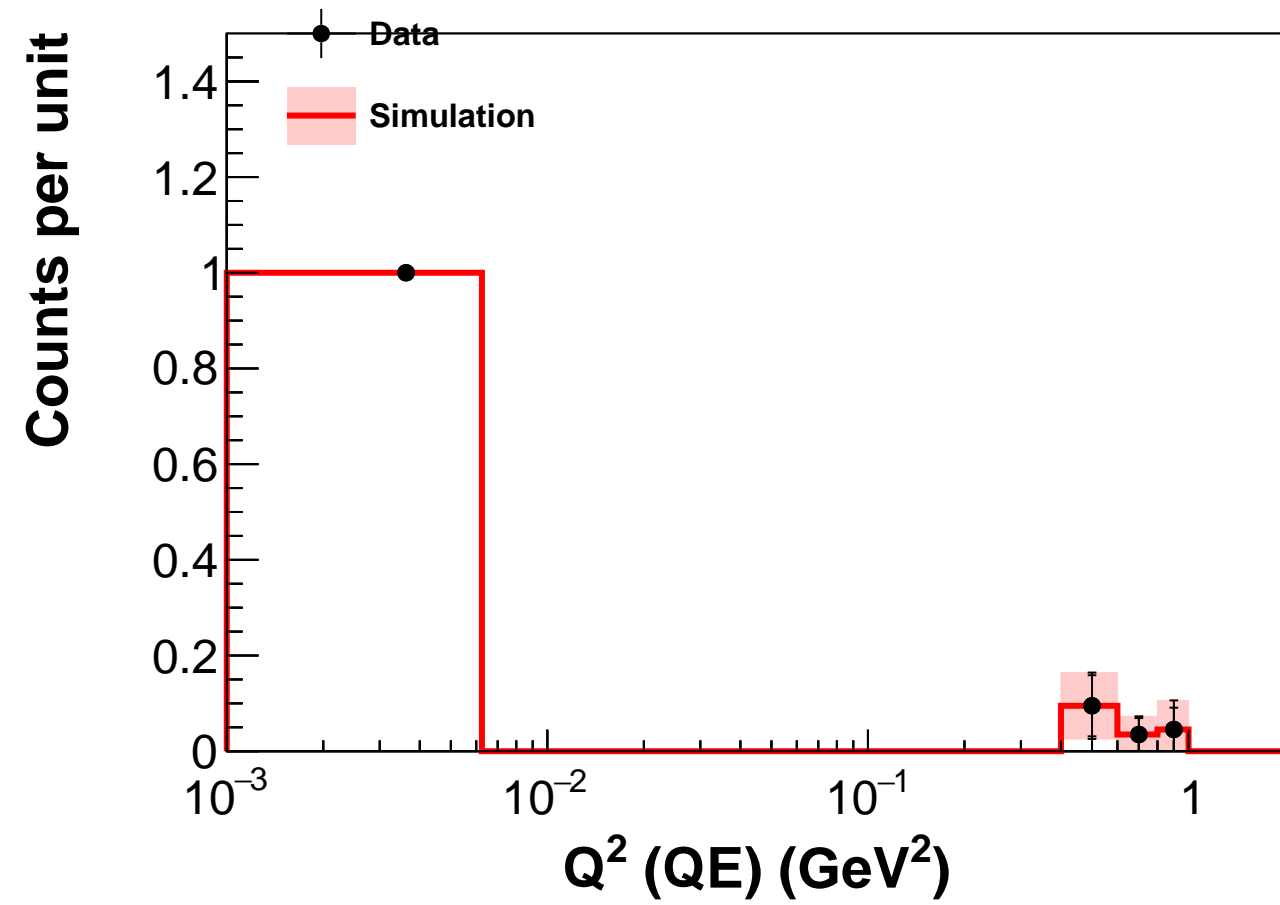
DATA_vs_MC



Raw MC Systematics

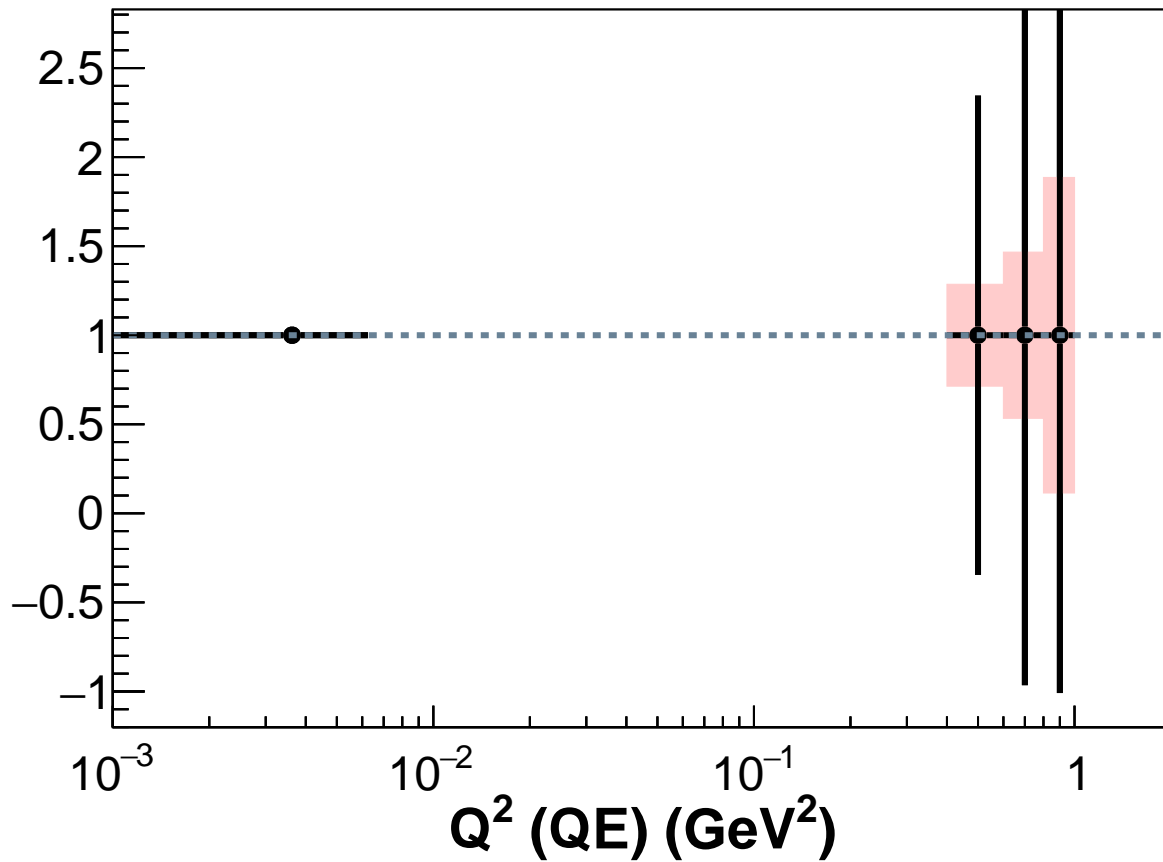


Signal Fraction



Signal Fraction

Data / MC

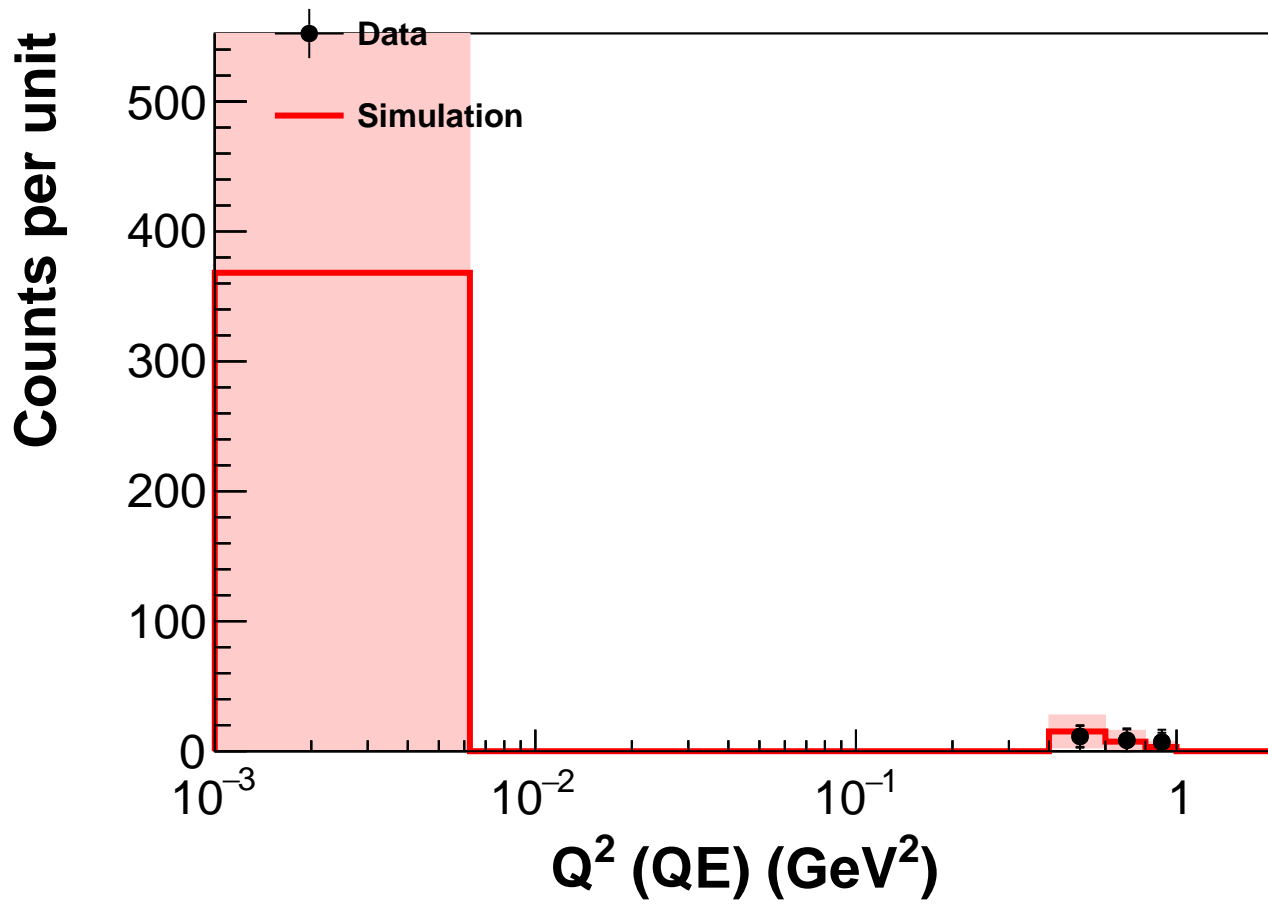


Signal Fraction Systematics

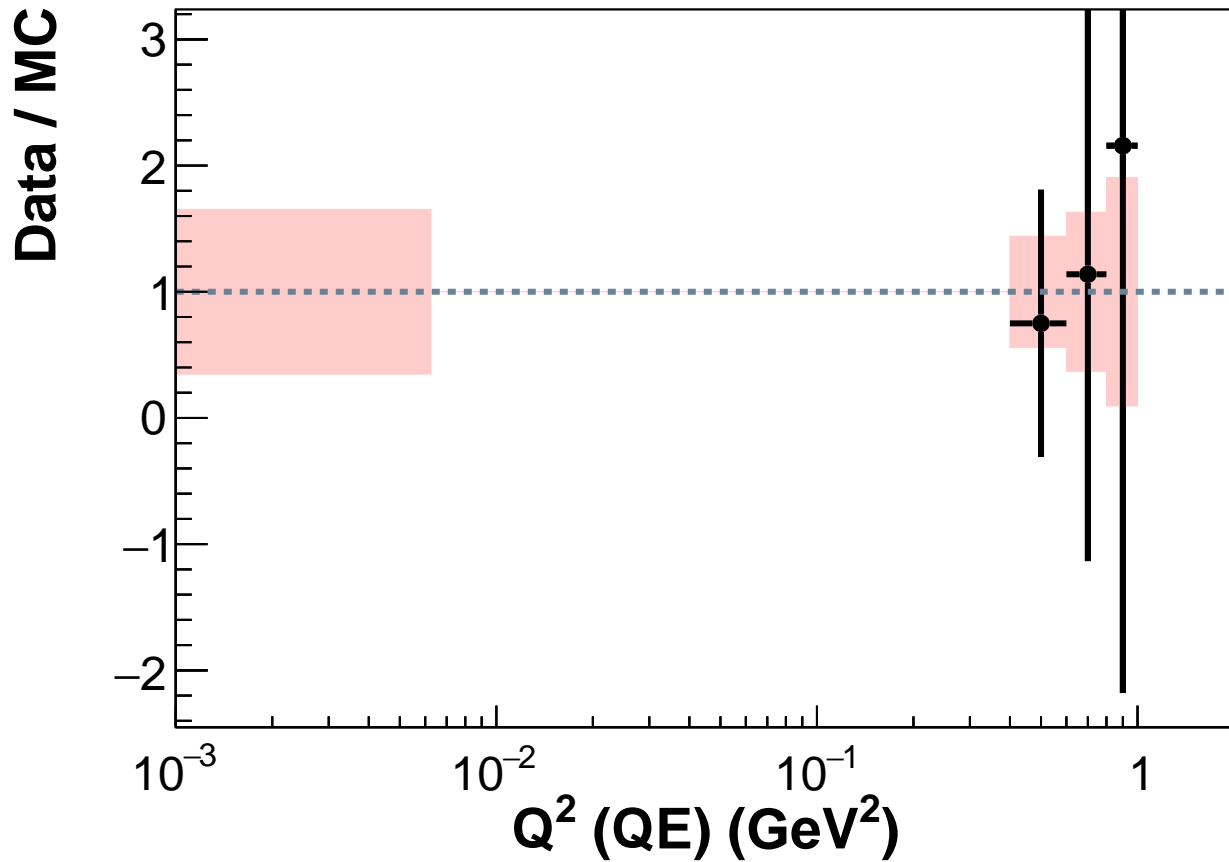


Total Uncertainty

BKGsub vs. MC signal



BKGsub vs. MC signal

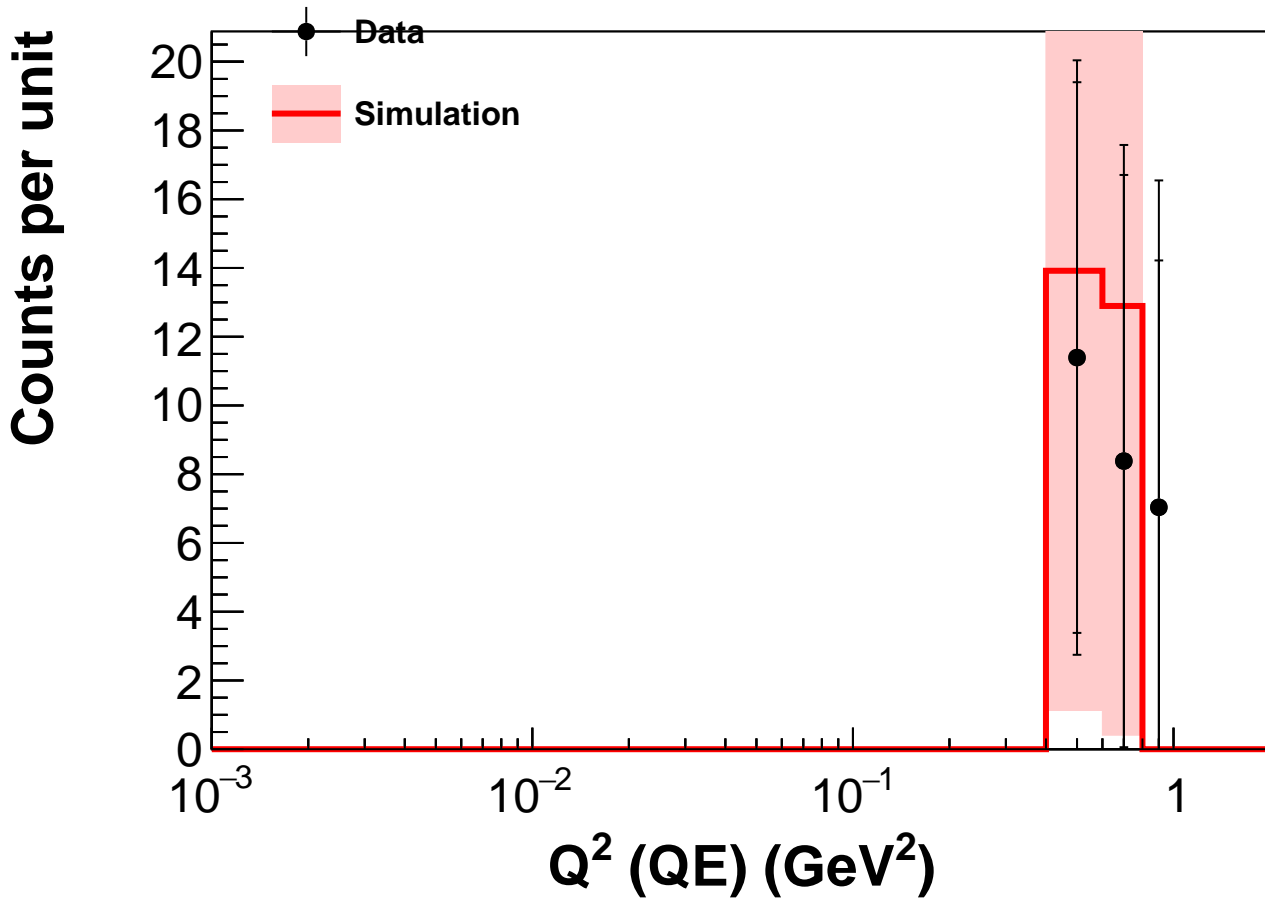


BKGsub Systematics

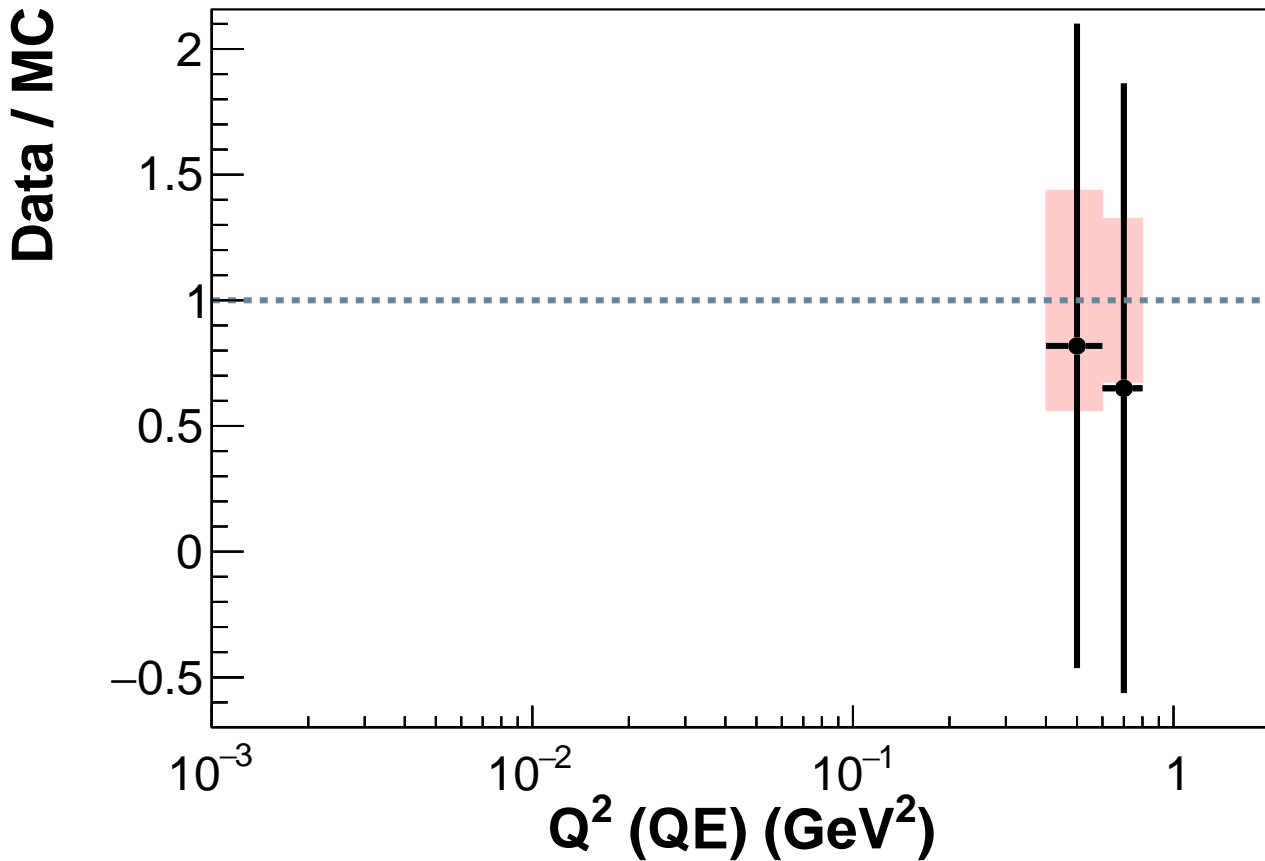


Total Uncertainty

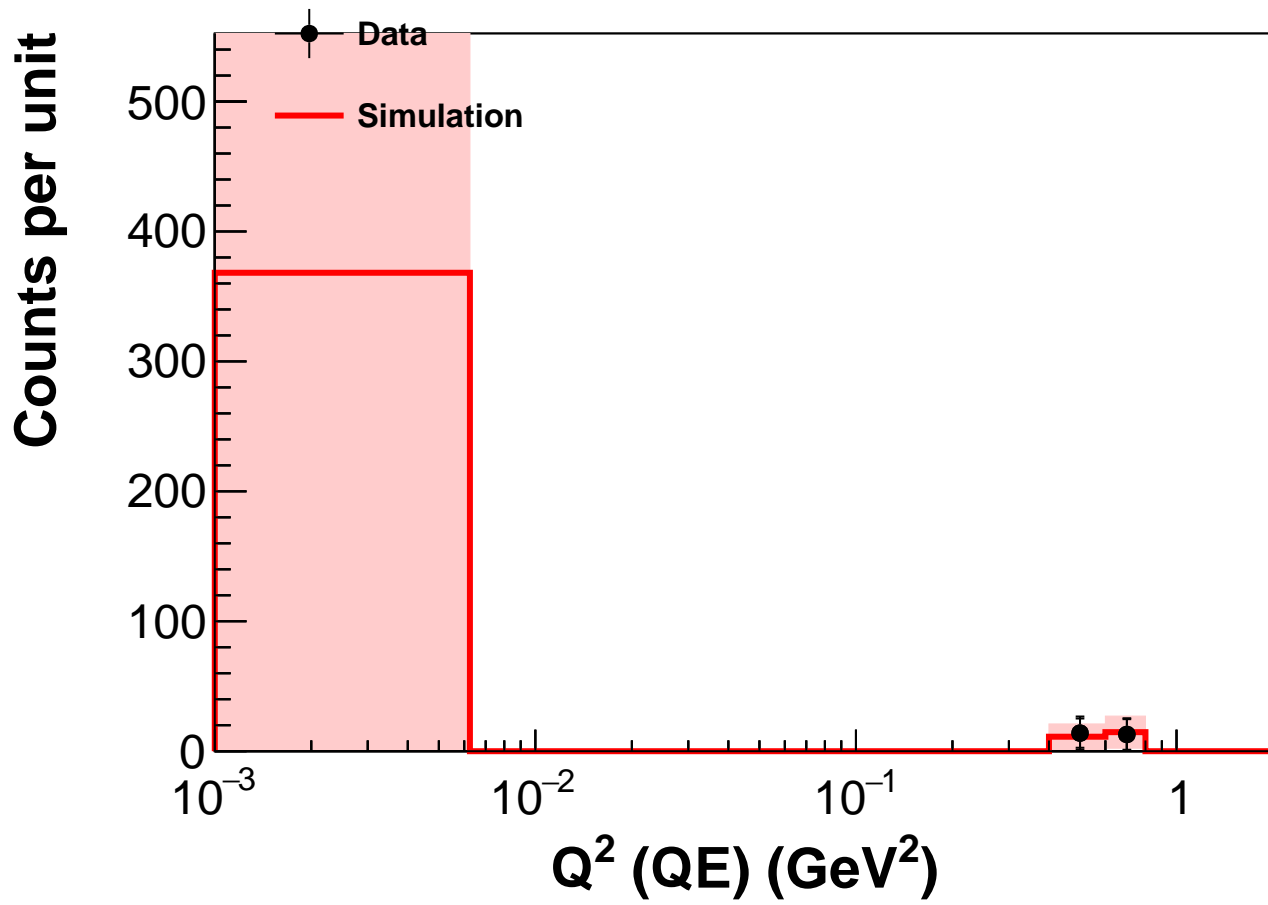
Data Before and After Unsmearing



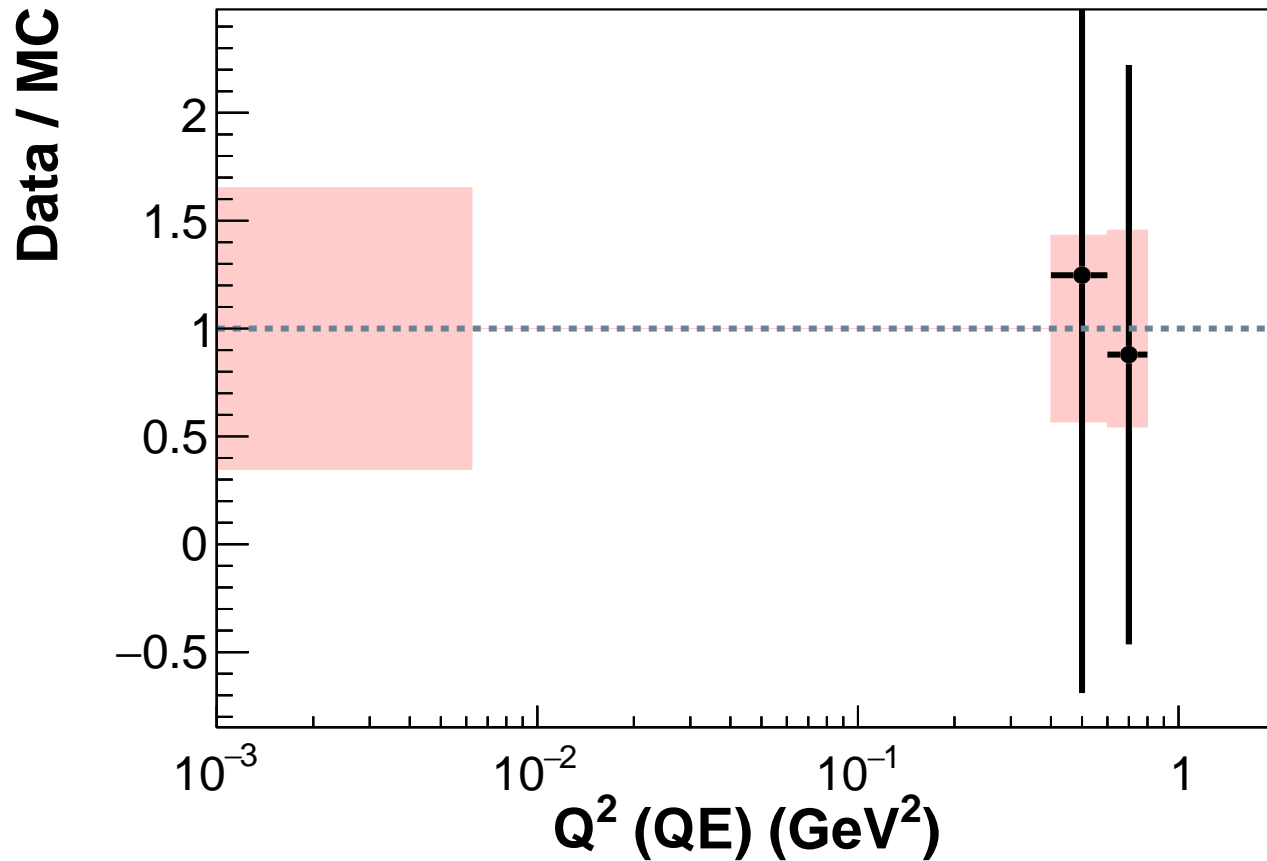
Data Before and After Unsmearing



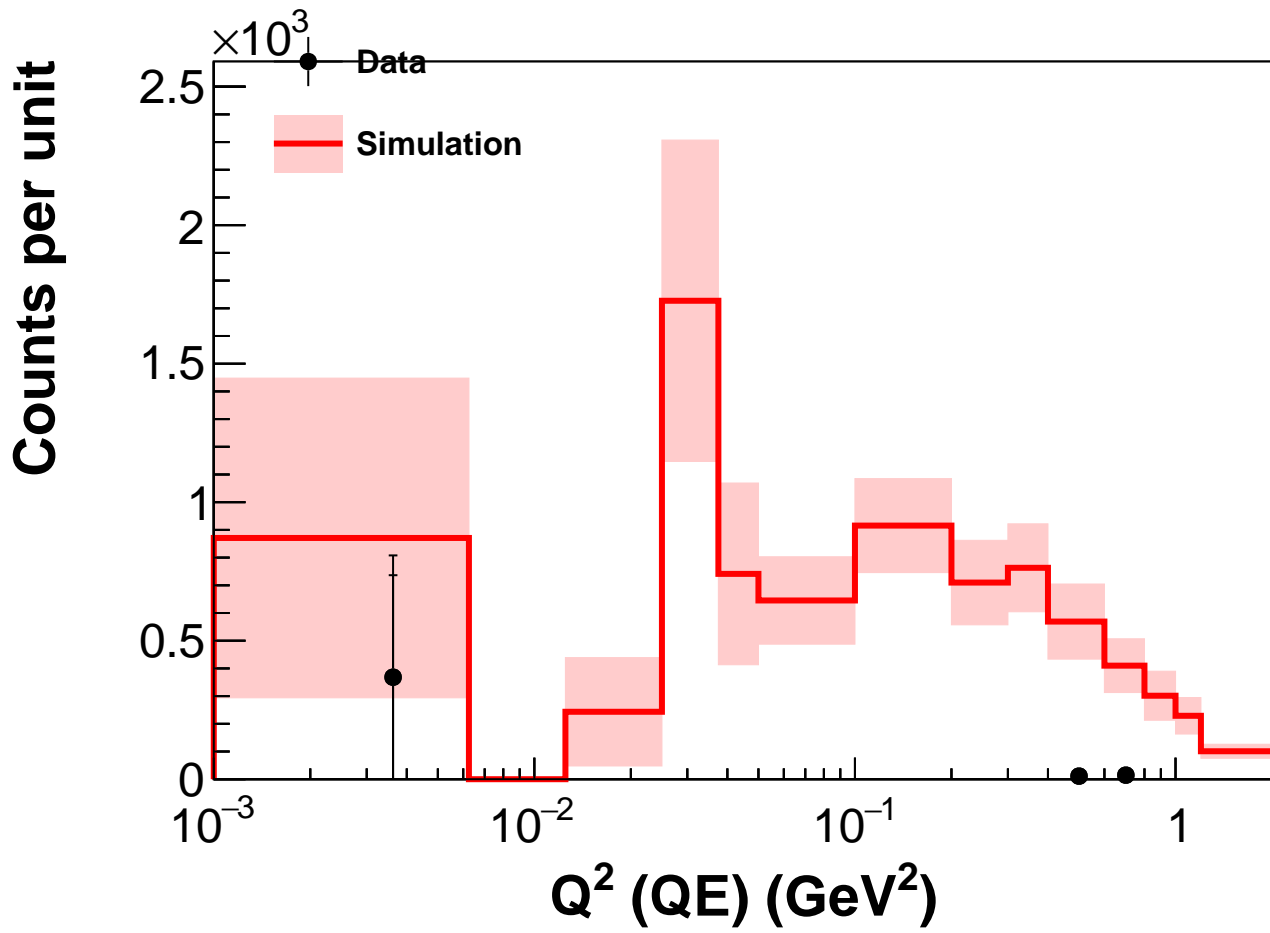
Unsmeared Data Compared to Selected MC



Unsmeared Data Compared to Selected MC

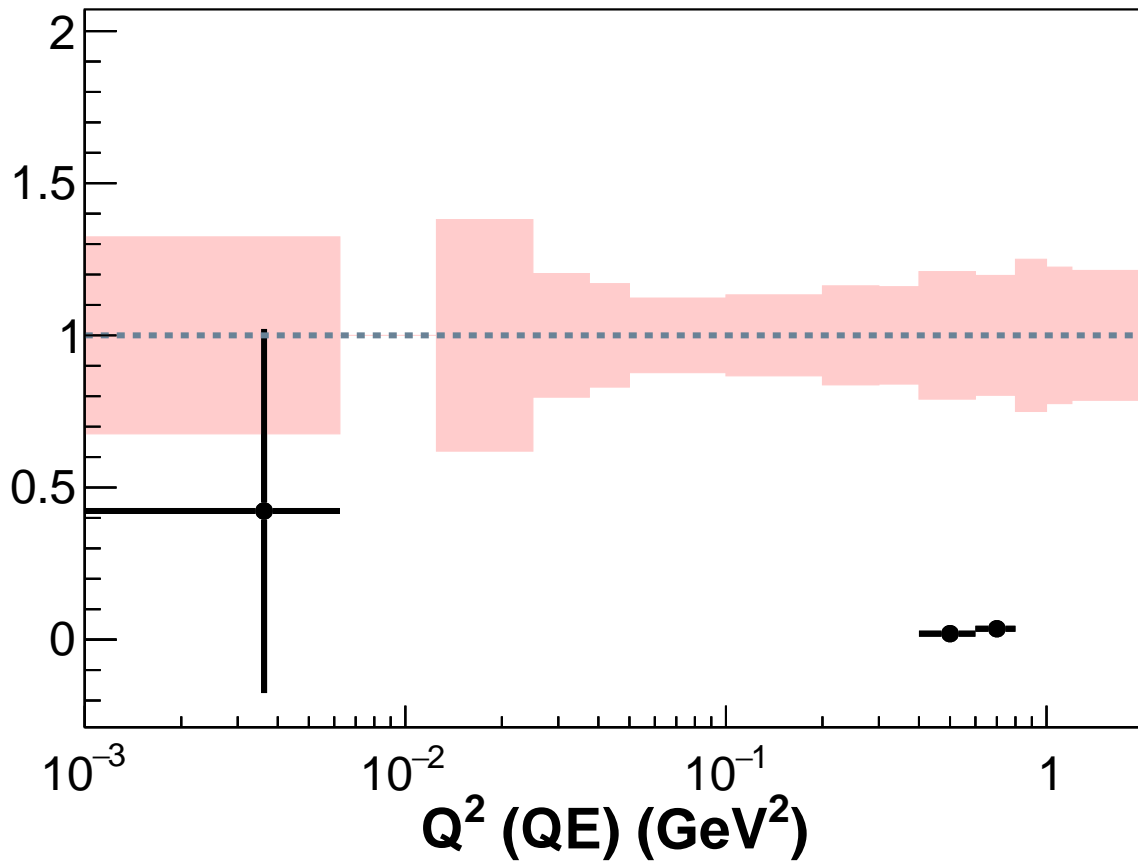


efficiency: selected and true

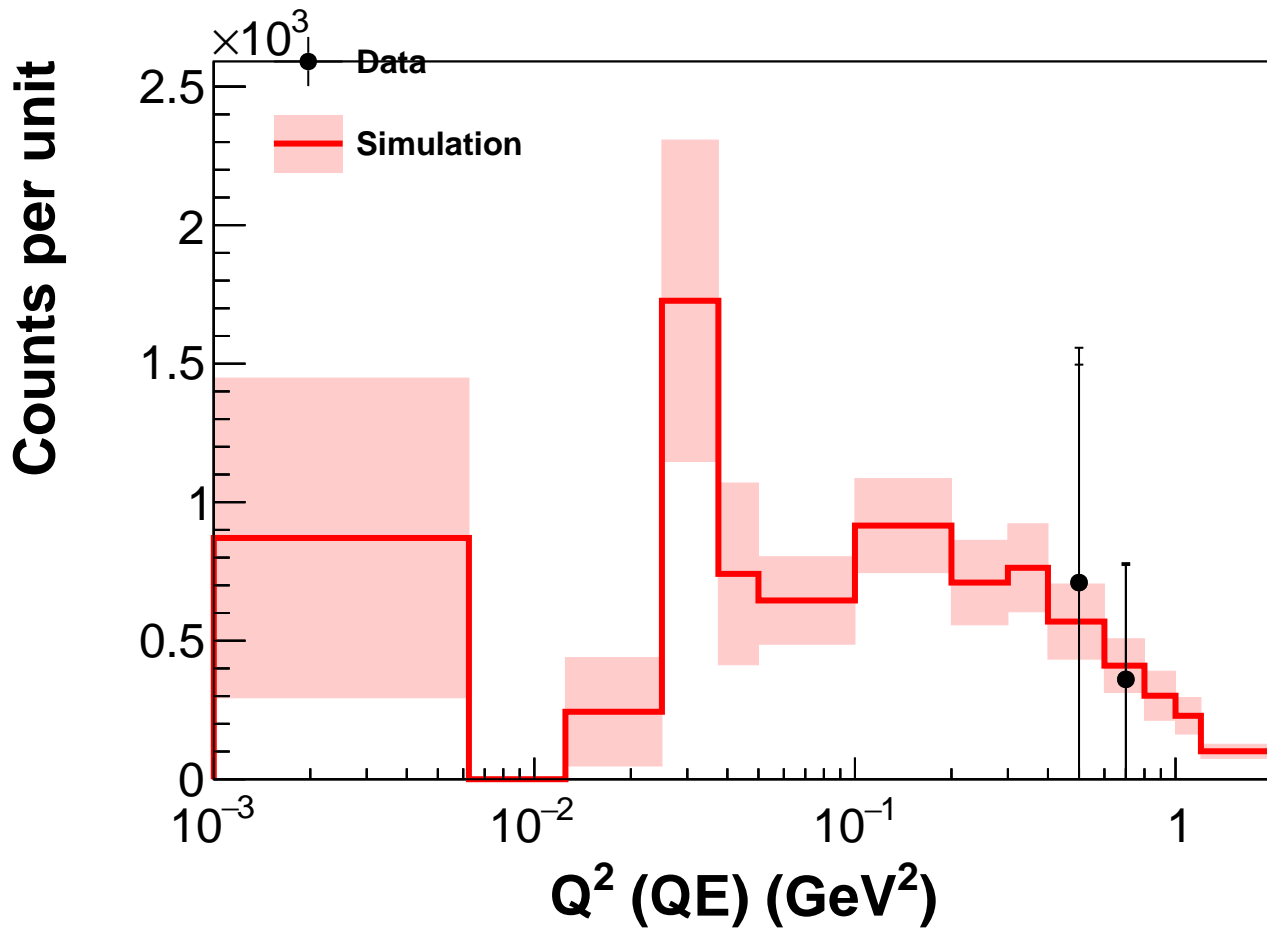


efficiency: selected and true

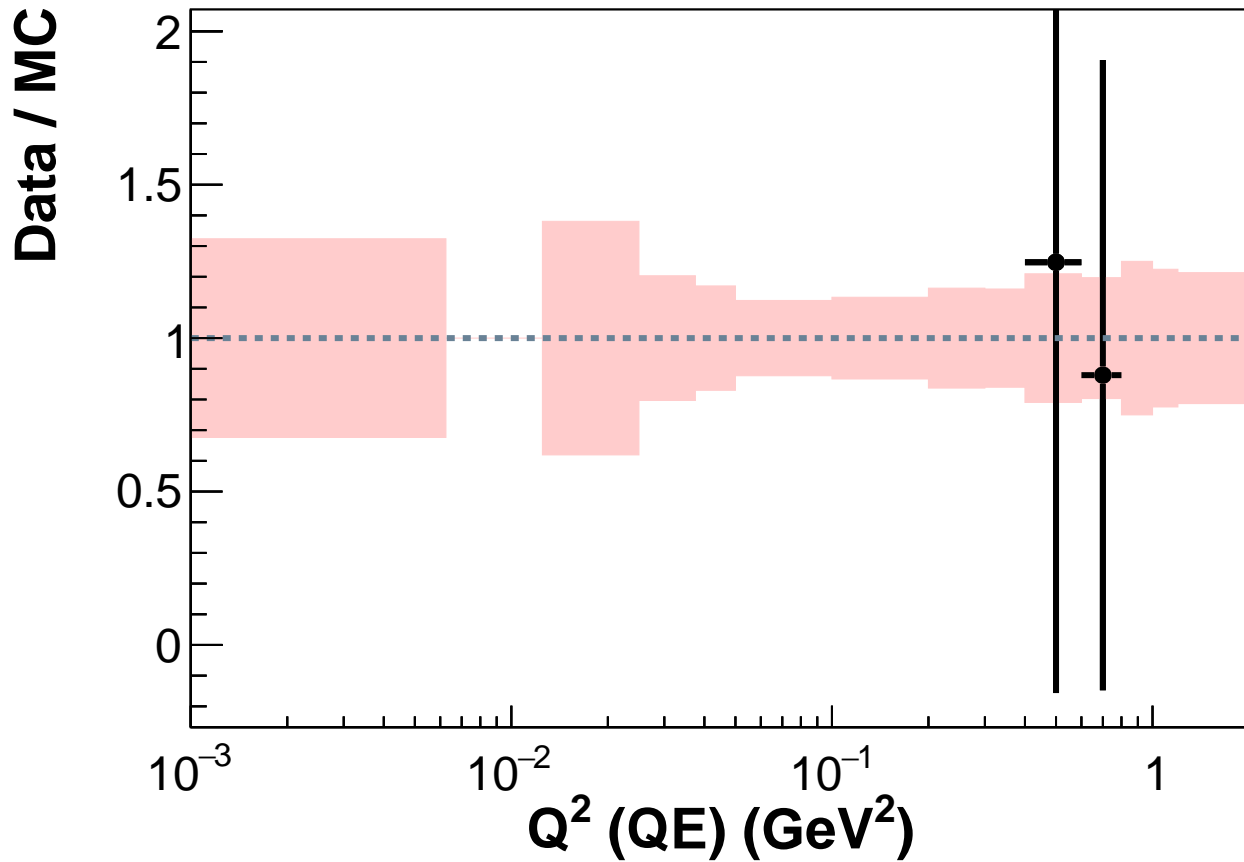
Data / MC



effcorr data vs truth



effcorr data vs truth



Efficiency Corrected Data Systematics



Total Uncertainty

Statistical

Flux

Angle

FSI Model

Geant

Genie Interaction Model

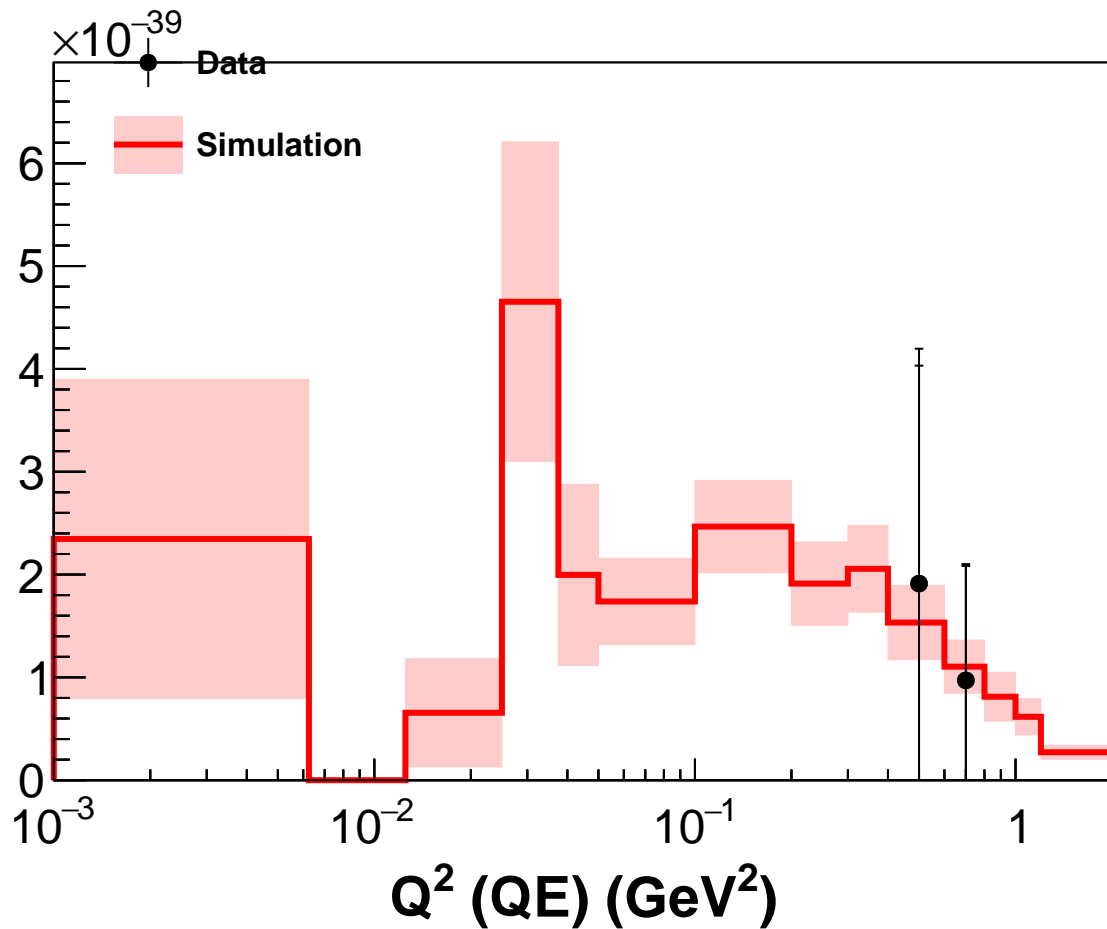
Muon Energy

Tune

Q^2 (QE) (GeV²)

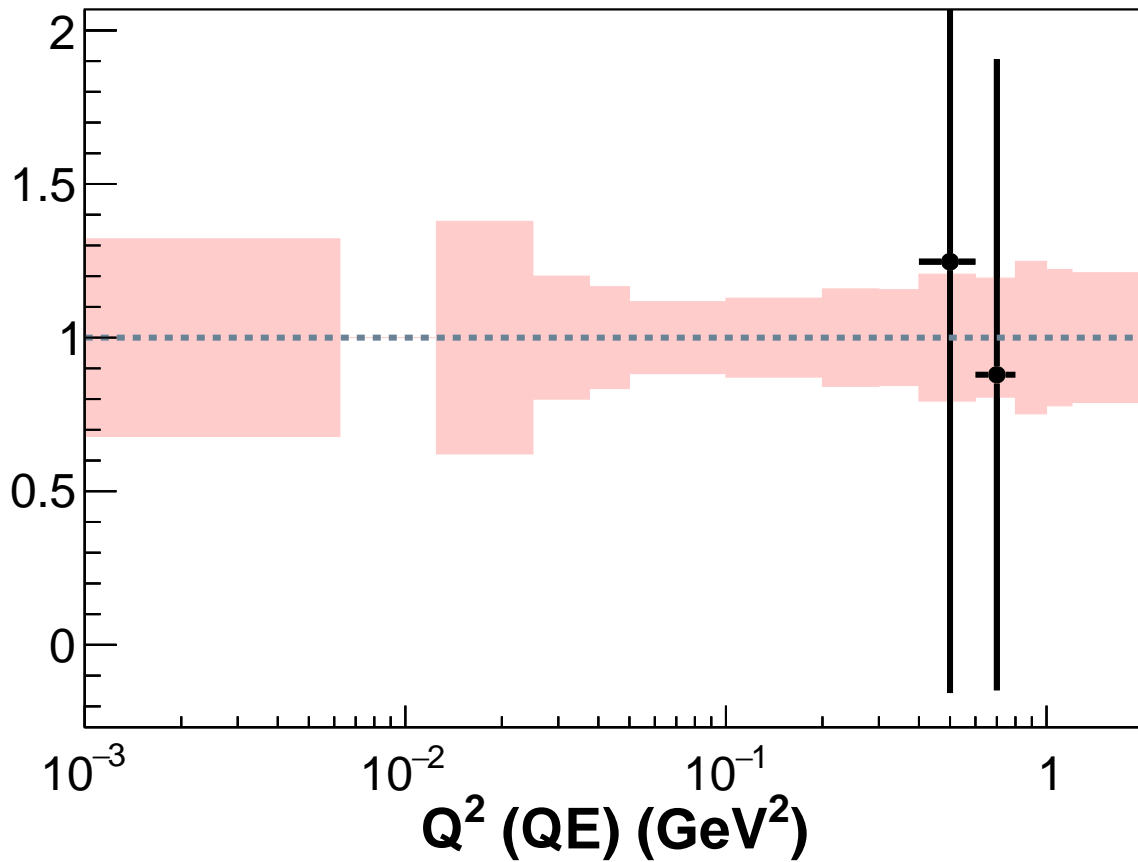
sigma

Counts per unit

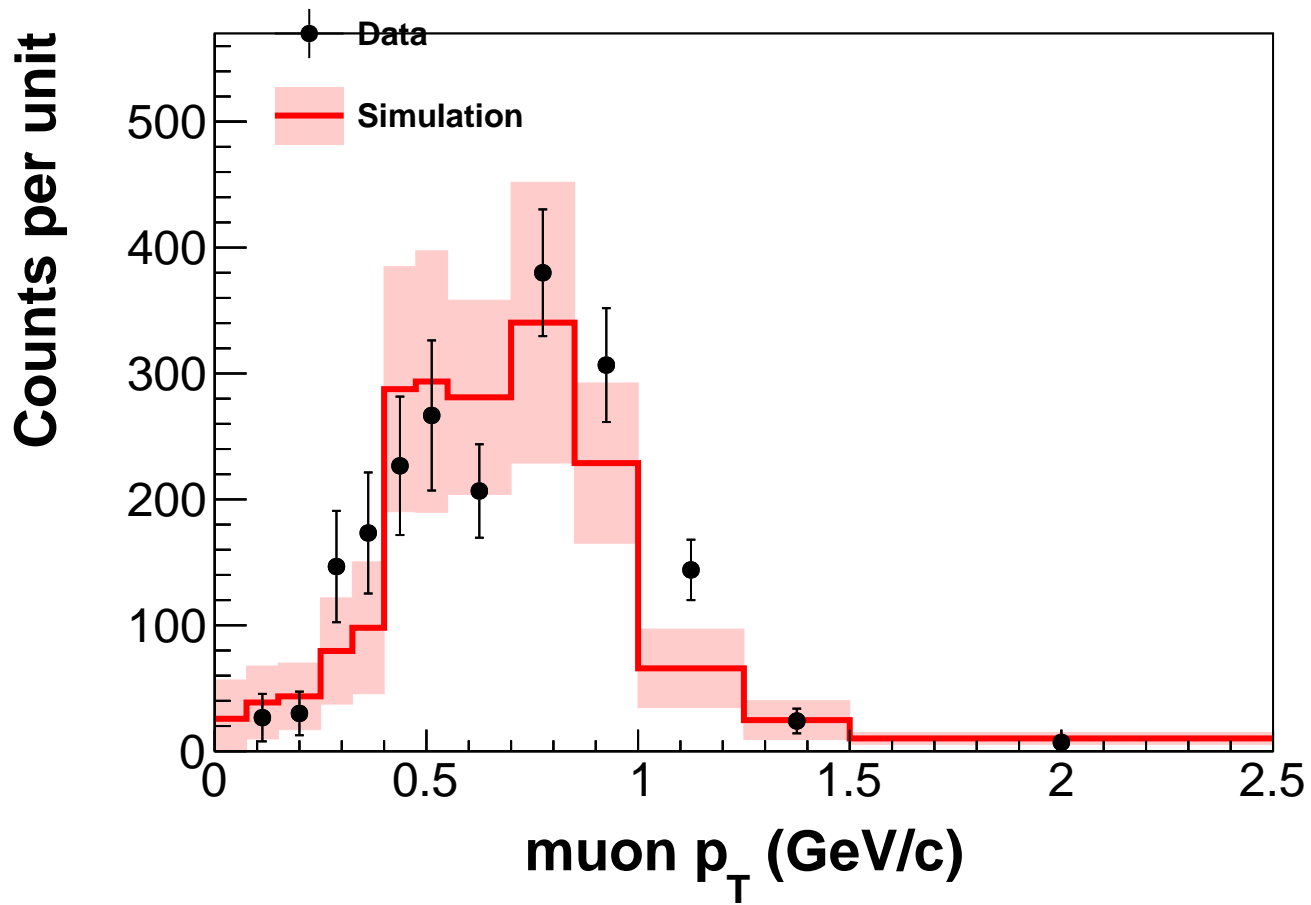


sigma

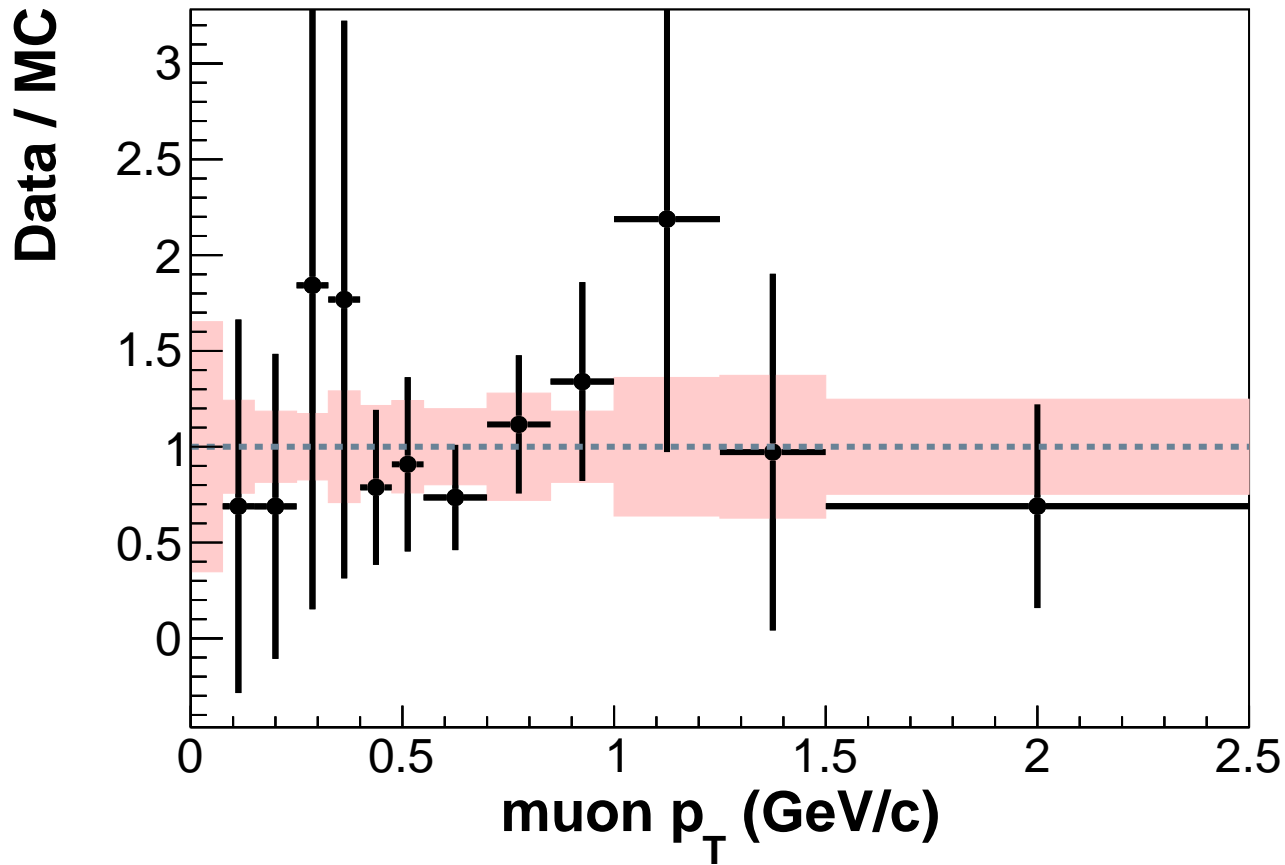
Data / MC



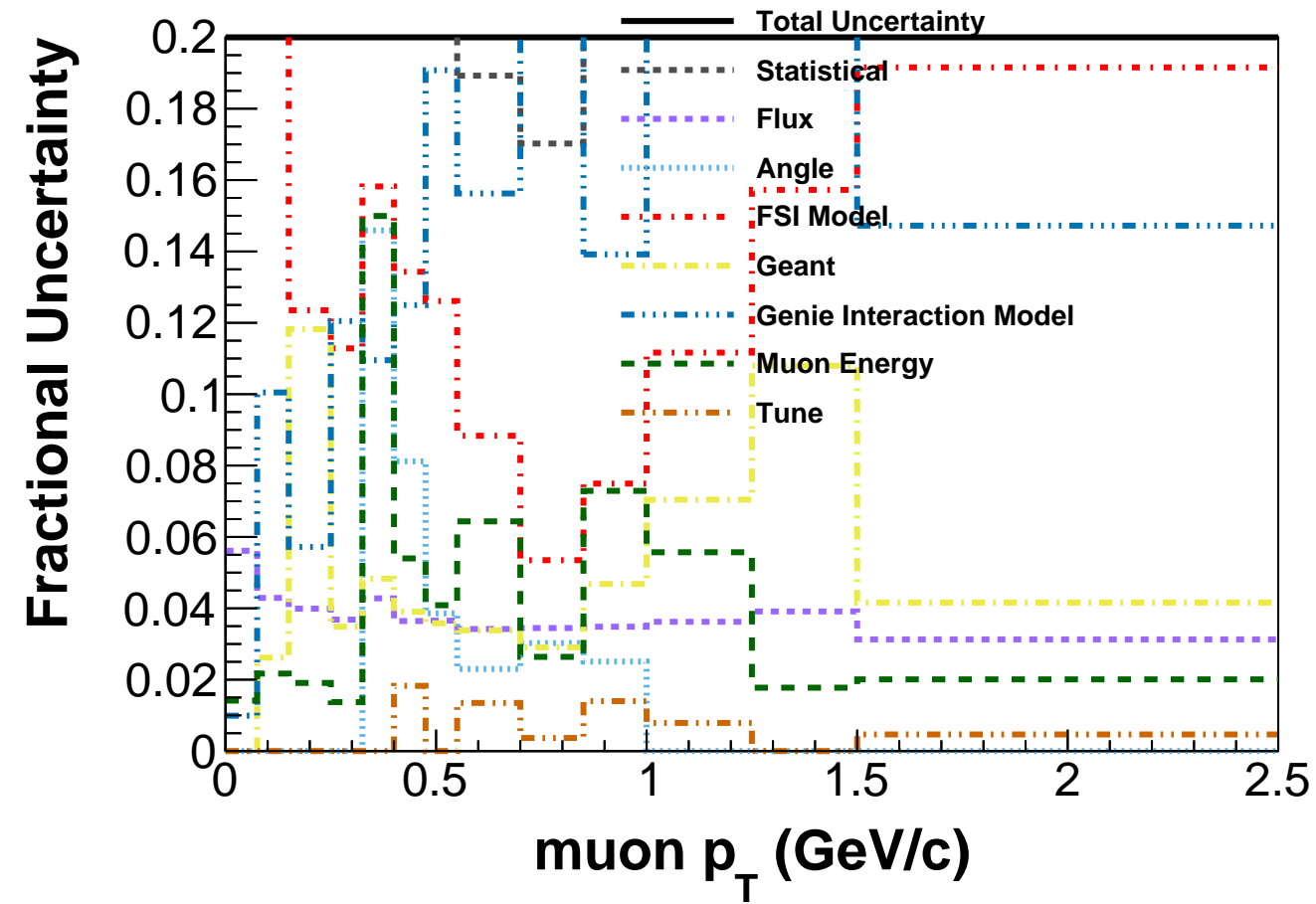
DATA_vs_MC



DATA_vs_MC

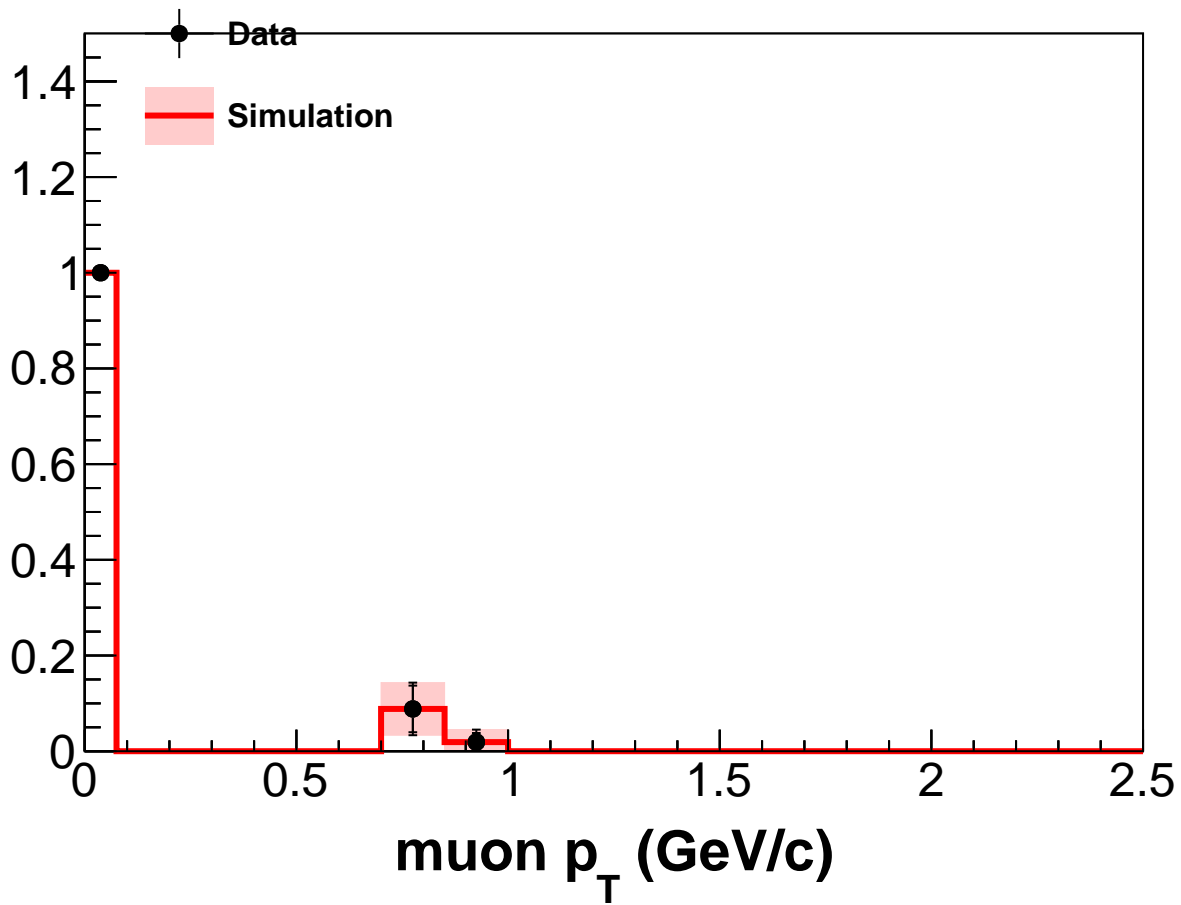


Raw MC Systematics



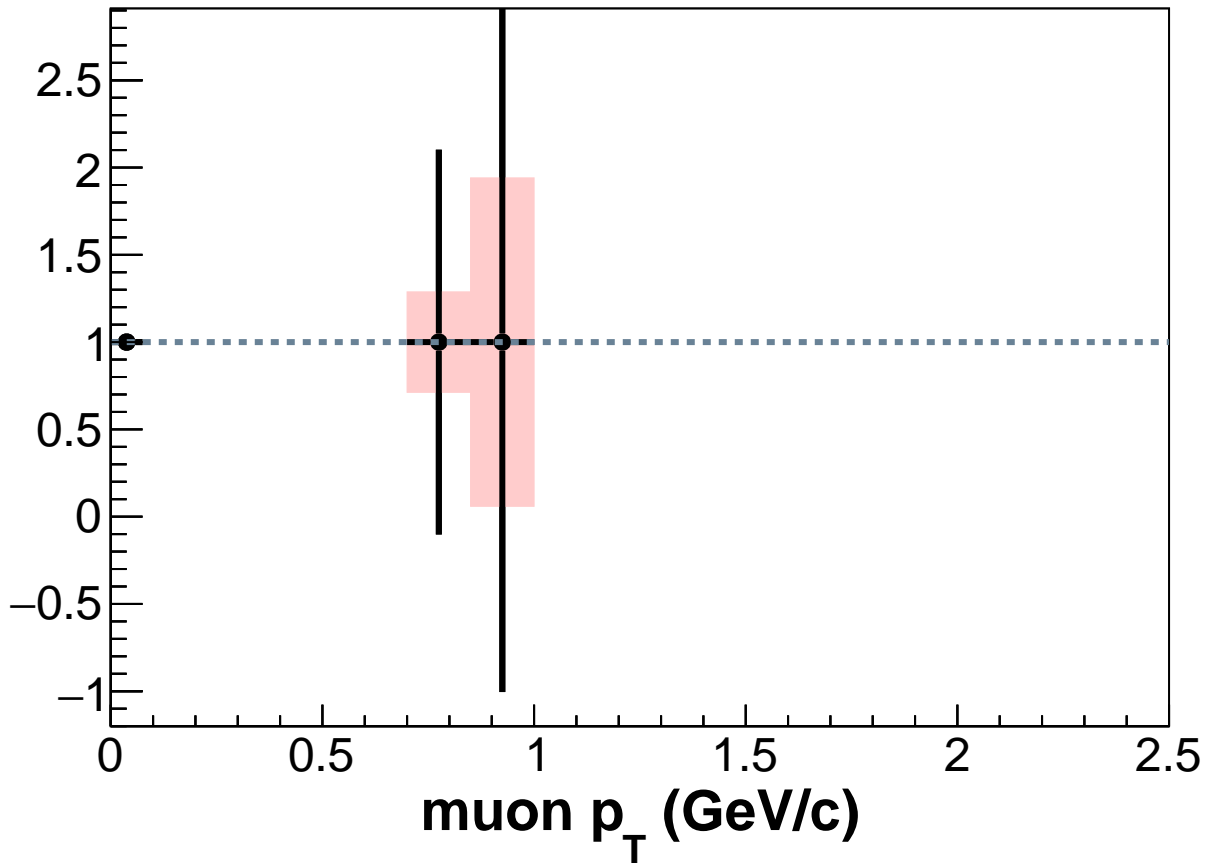
Signal Fraction

Counts per unit

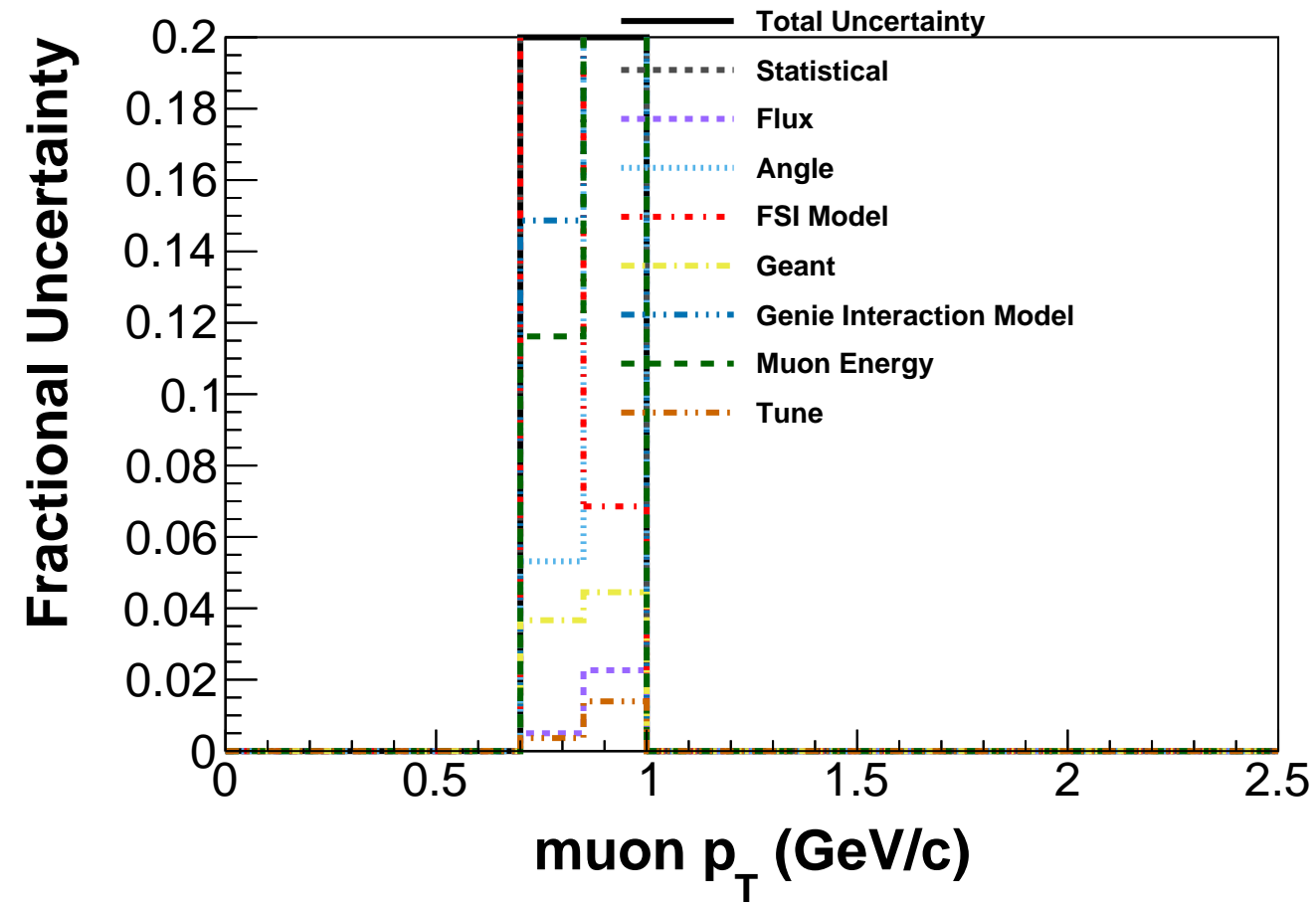


Signal Fraction

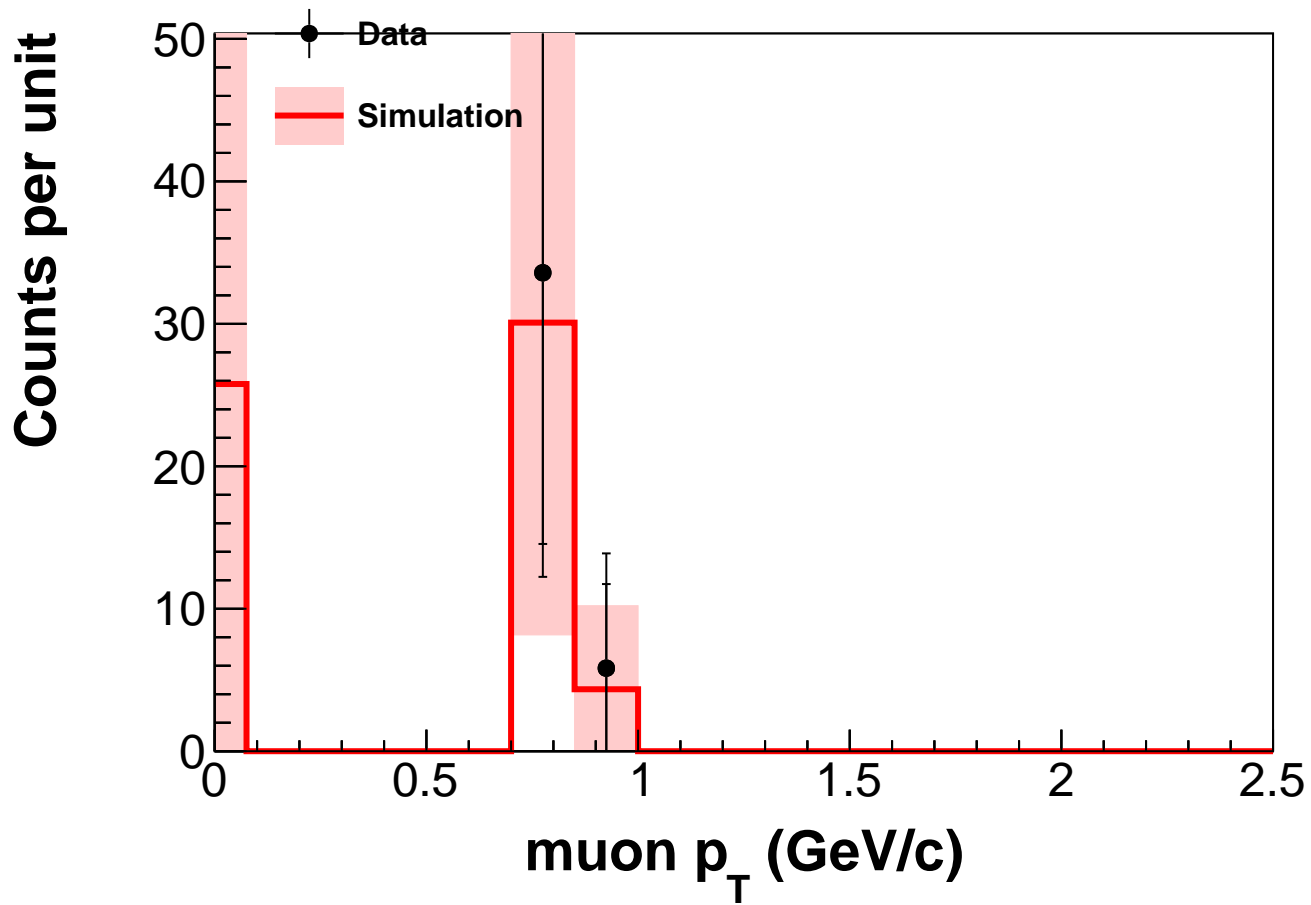
Data / MC



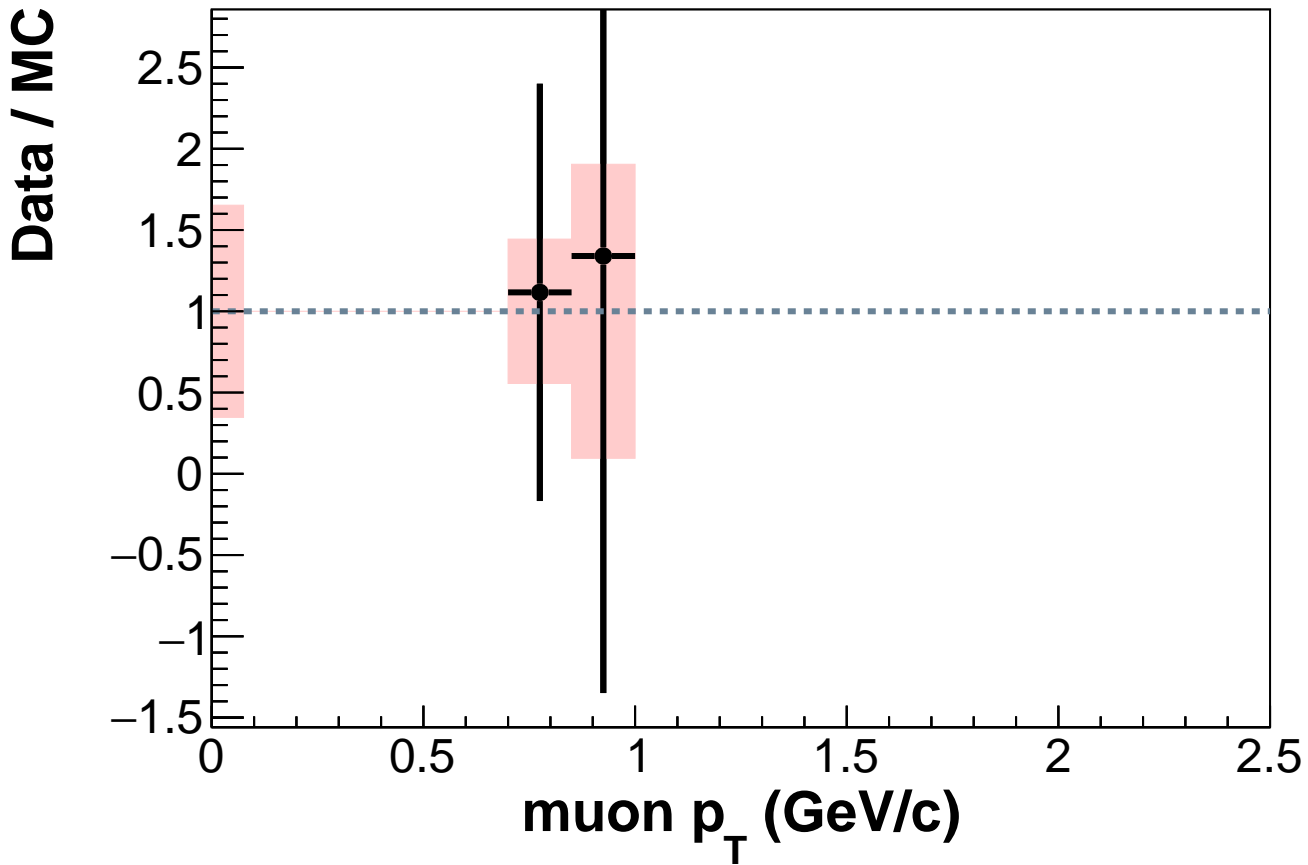
Signal Fraction Systematics

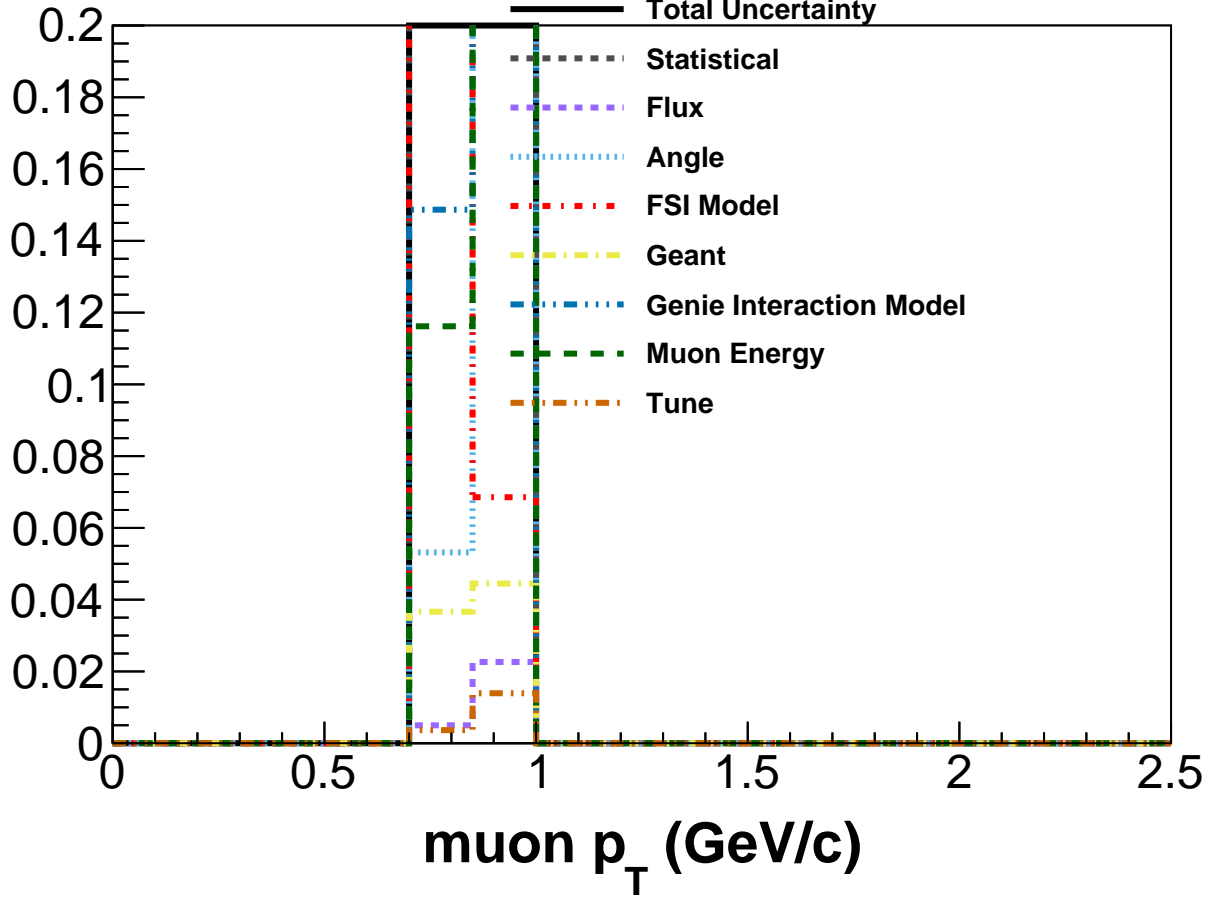


BKGsub vs. MC signal



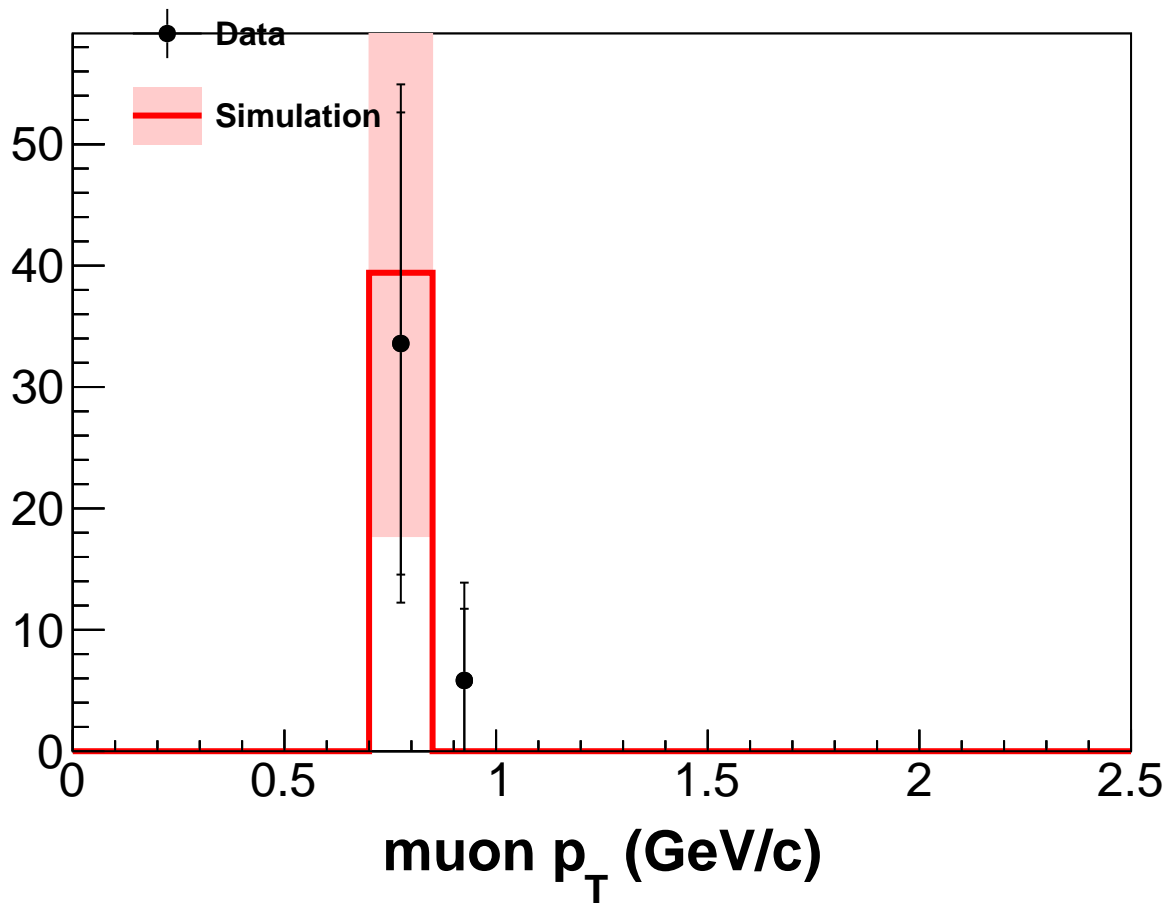
BKGsub vs. MC signal



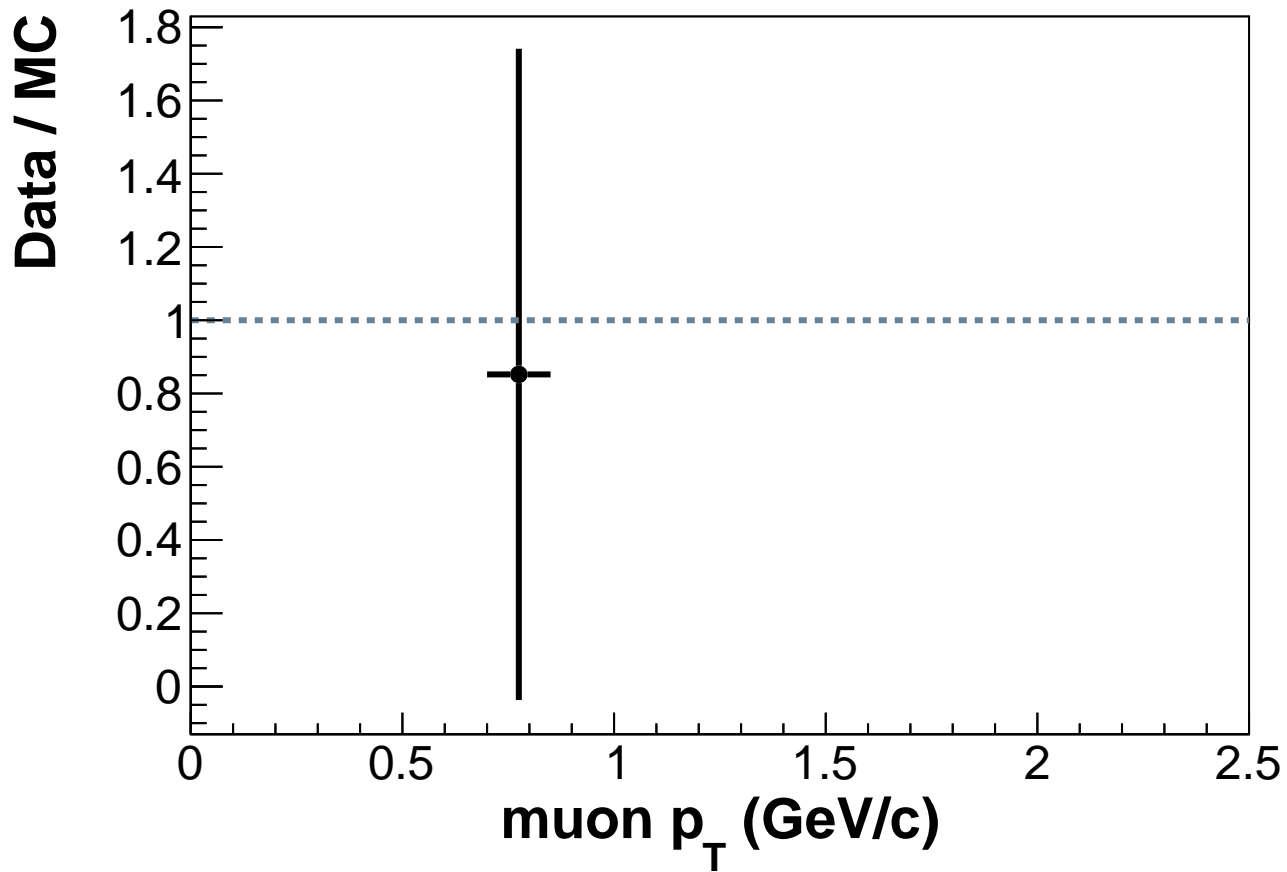


Data Before and After Unsmearing

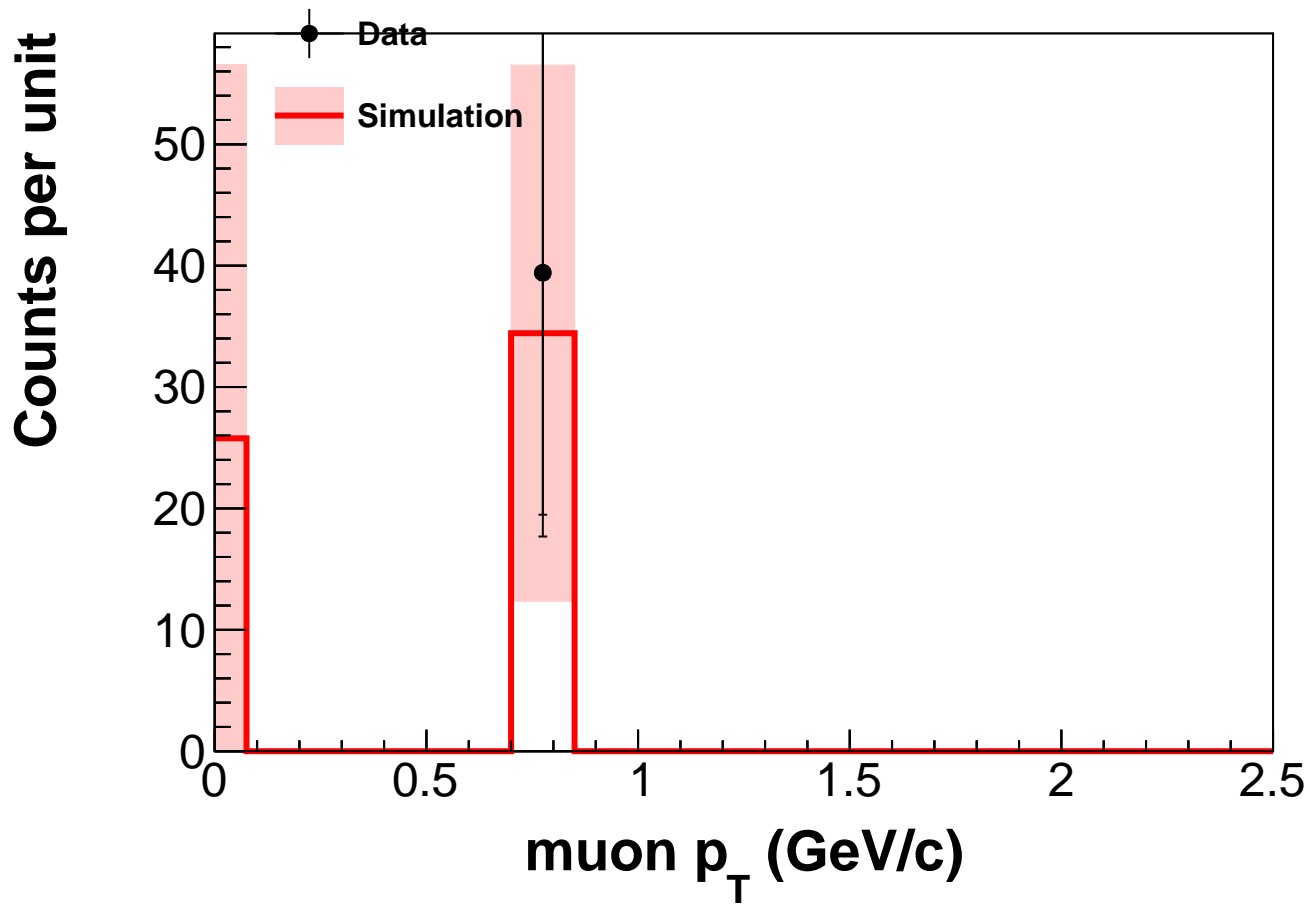
Counts per unit



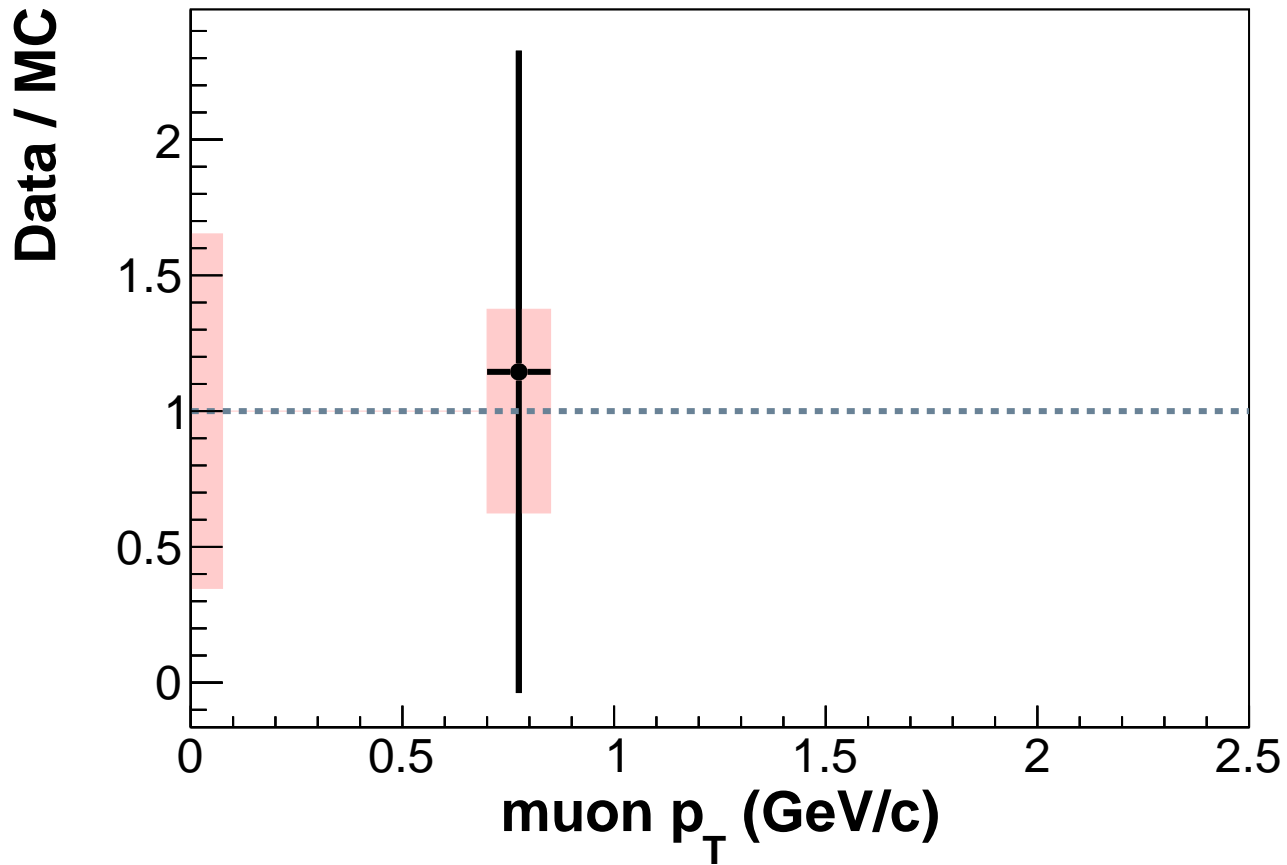
Data Before and After Unsmearing



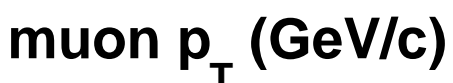
Unsmeared Data Compared to Selected MC



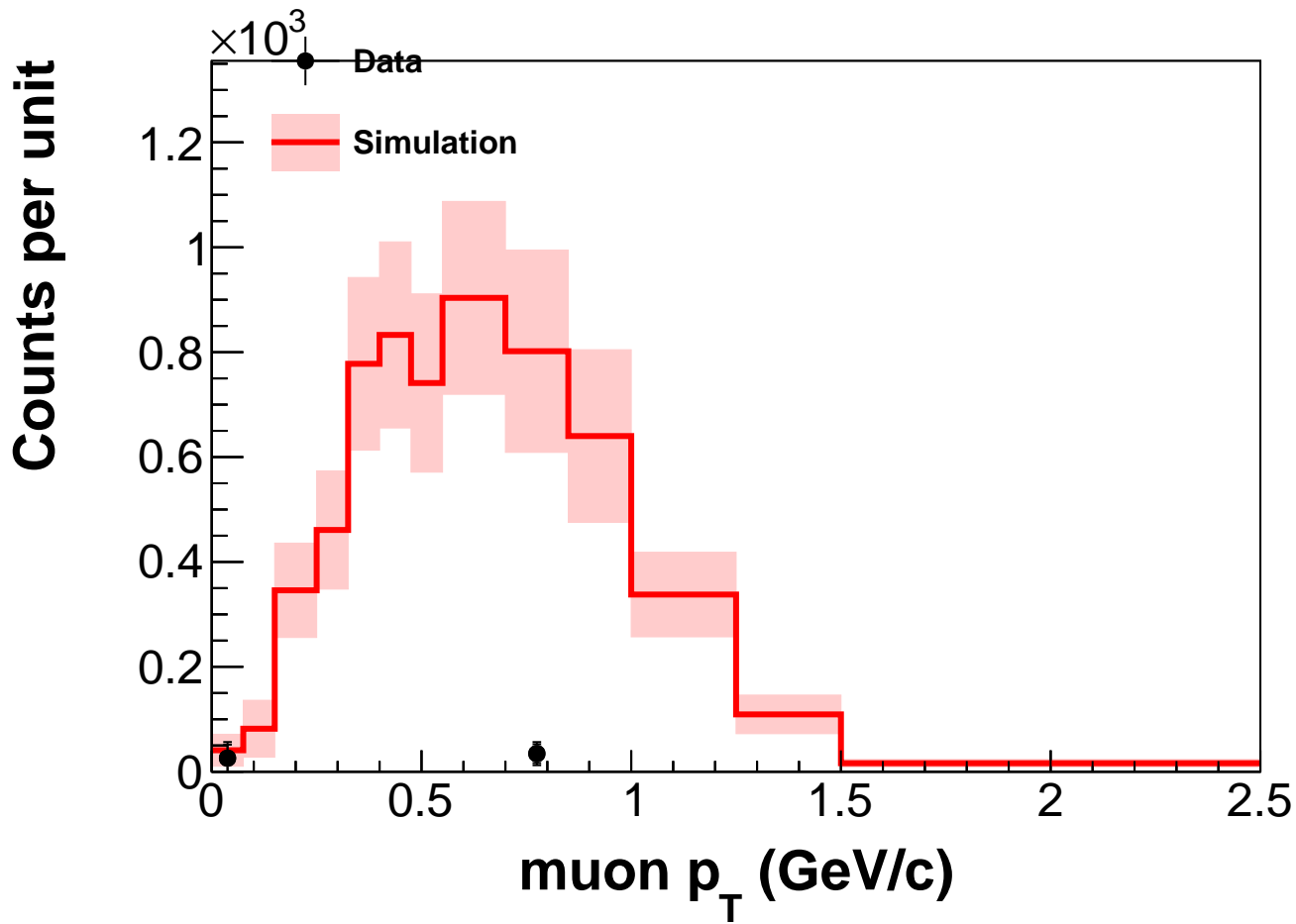
Unsmeared Data Compared to Selected MC



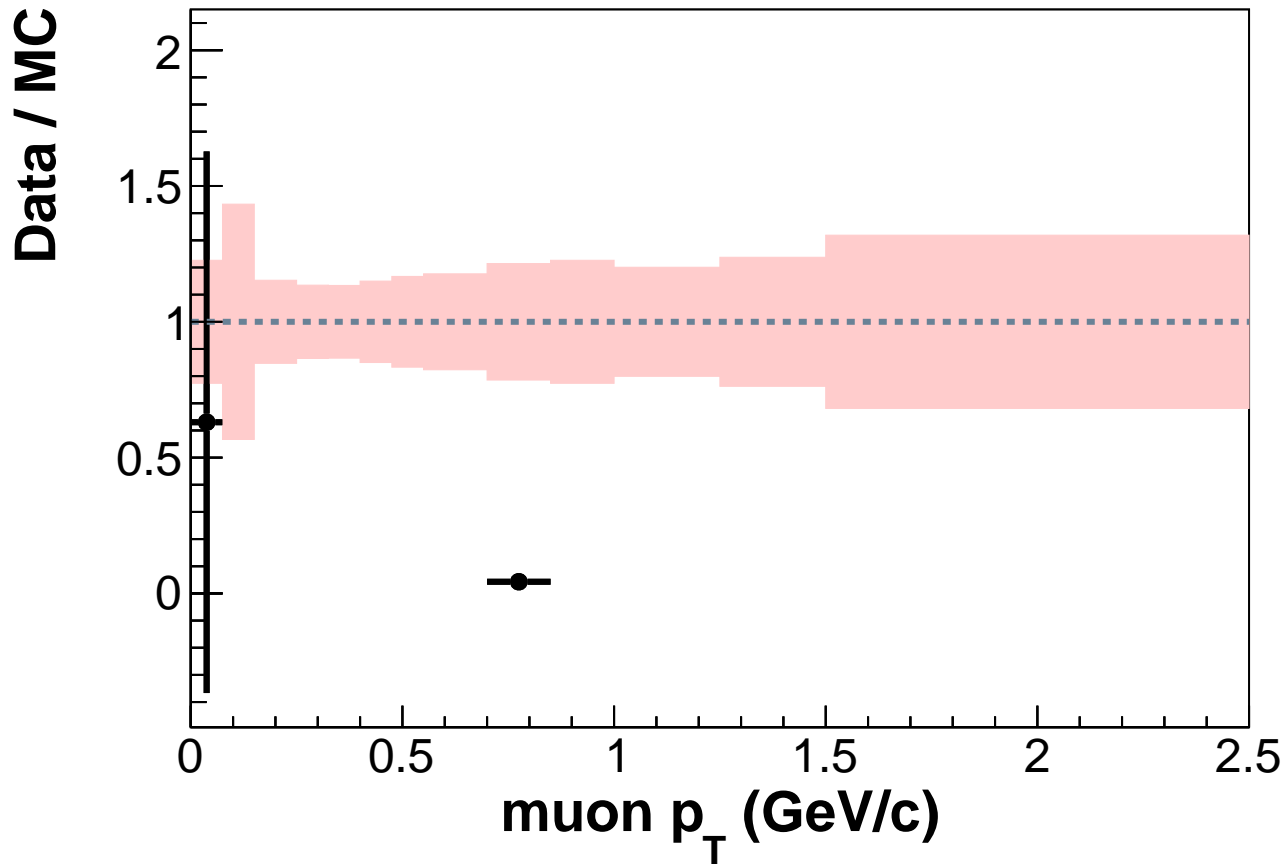
Unsmeared Data Systematics



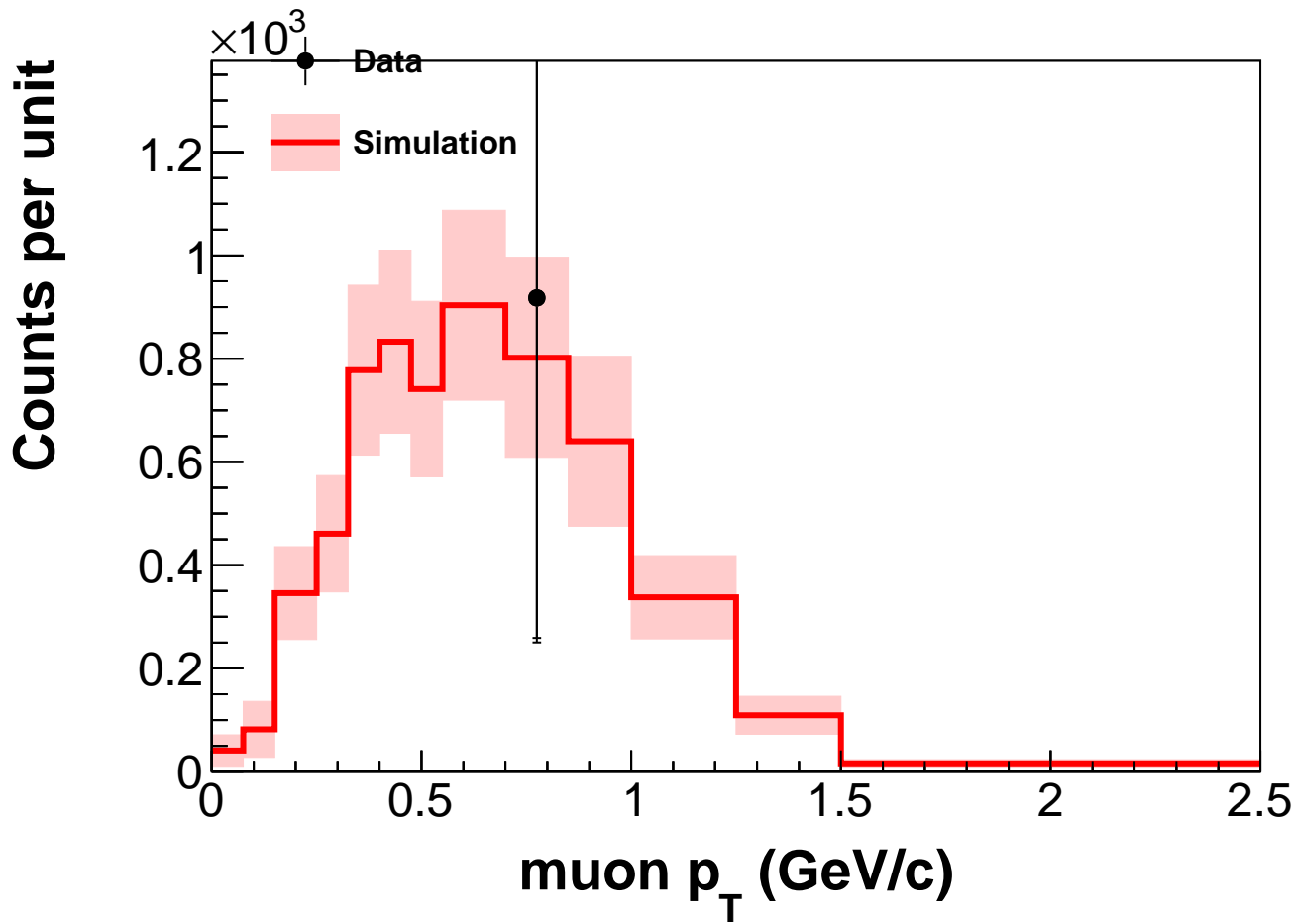
efficiency: selected and true



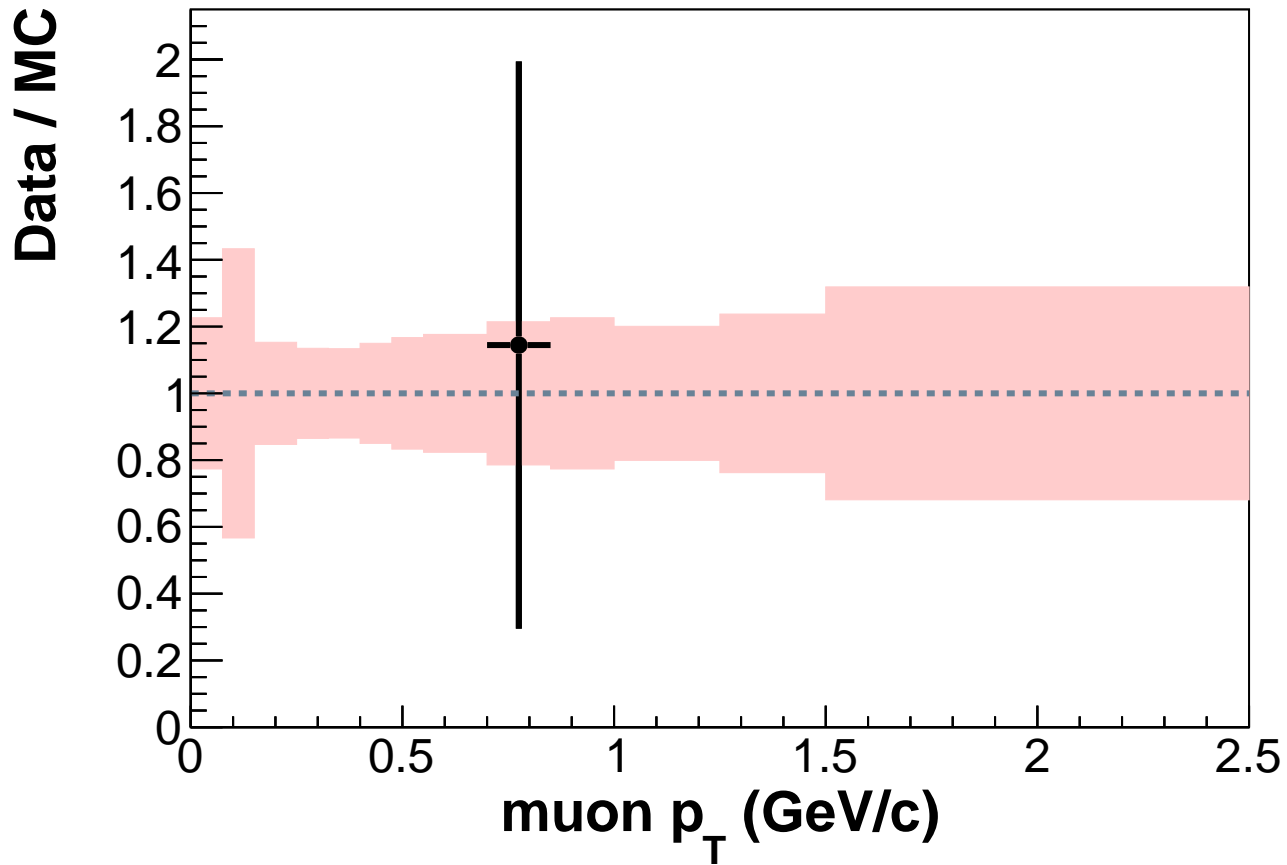
efficiency: selected and true



effcorr data vs truth

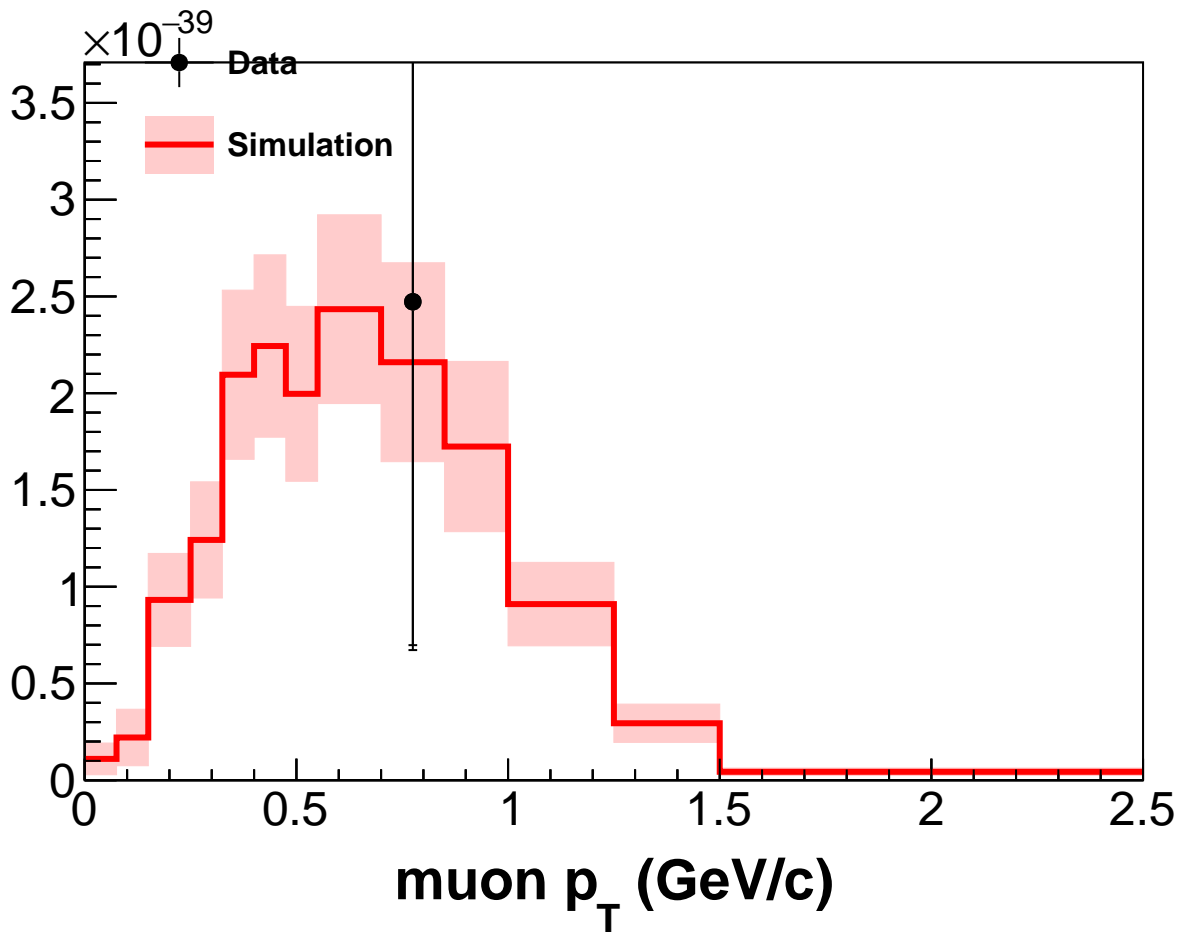


effcorr data vs truth

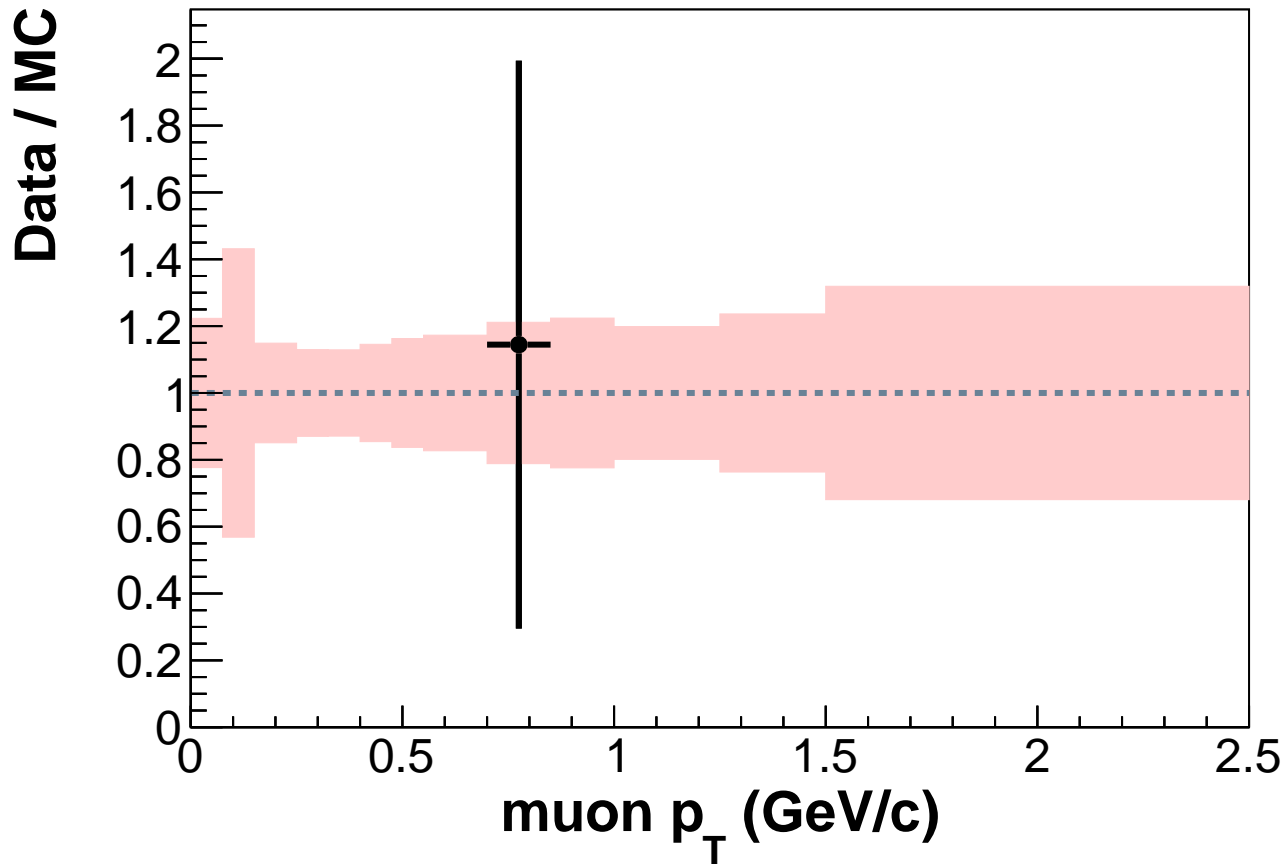


Counts per unit

sigma

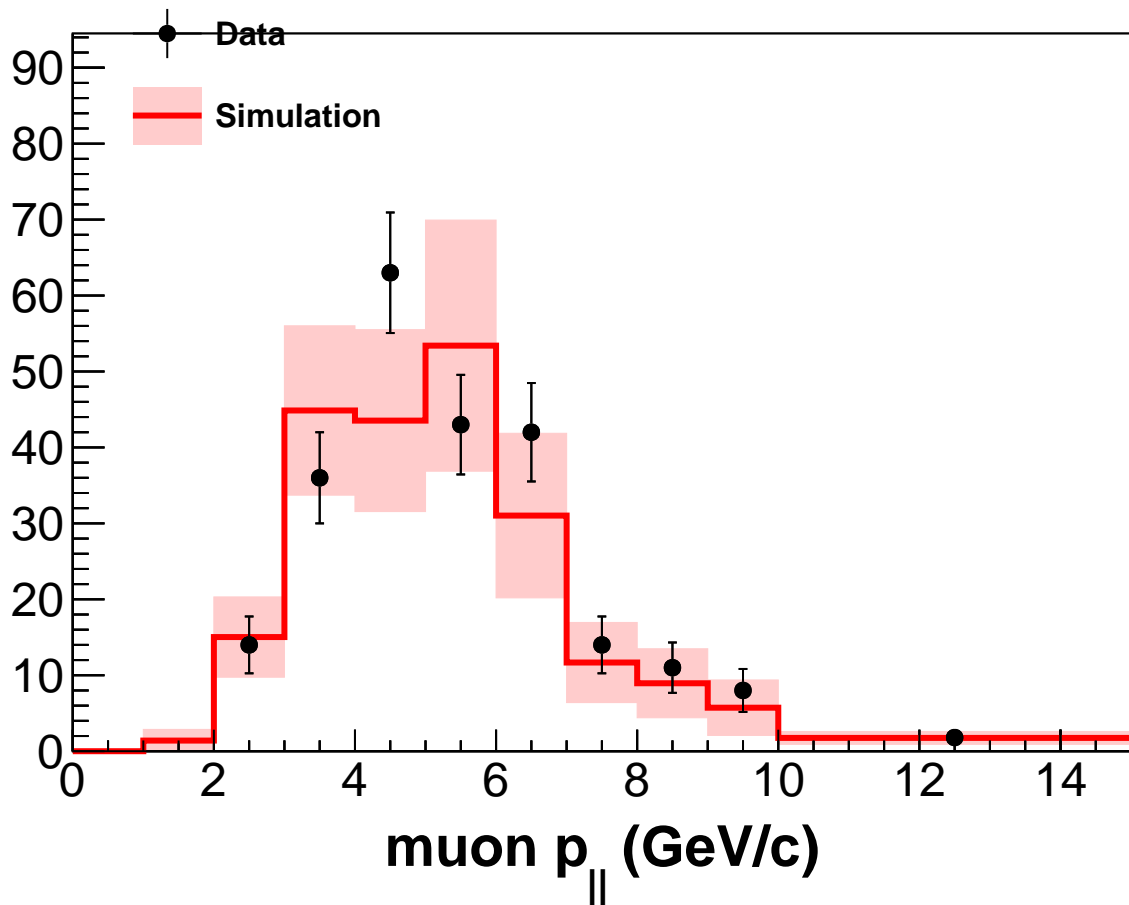


sigma

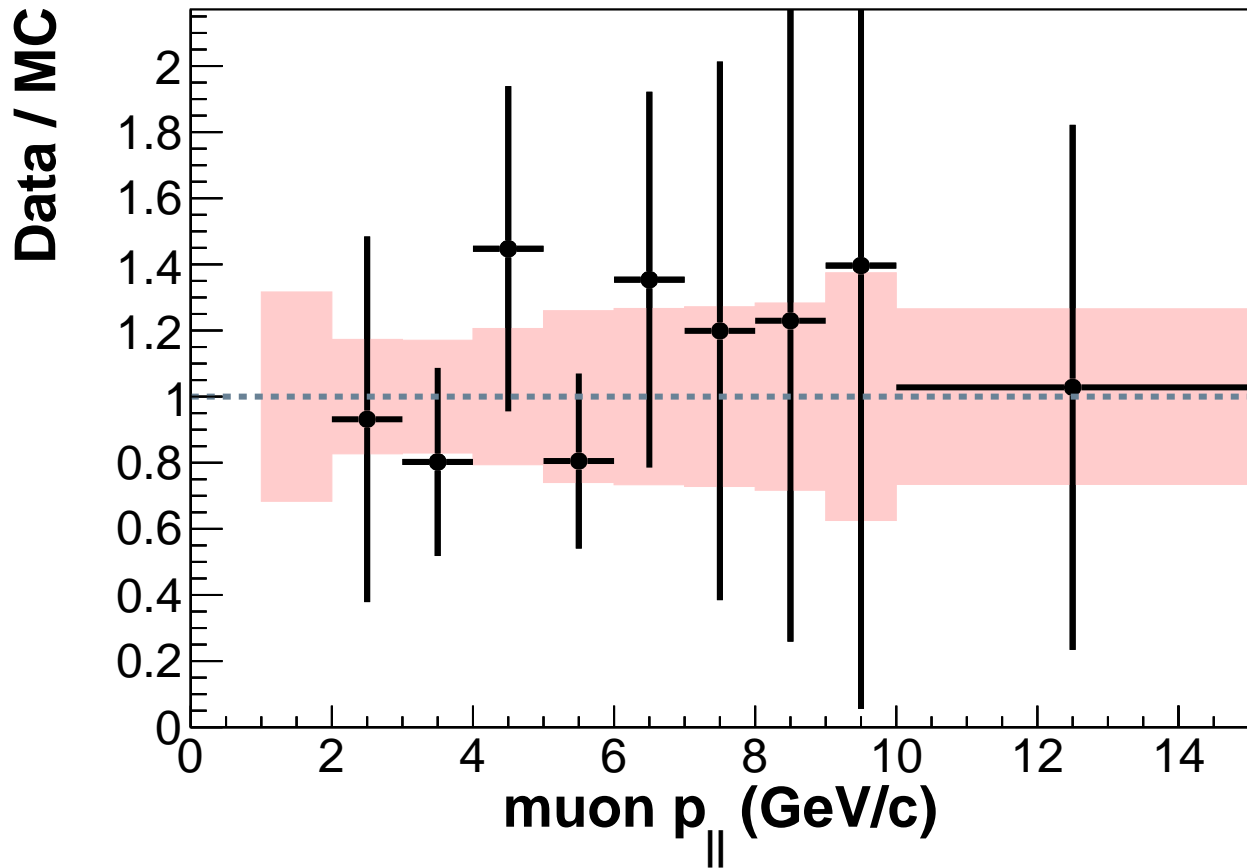


DATA_vs_MC

Counts per unit

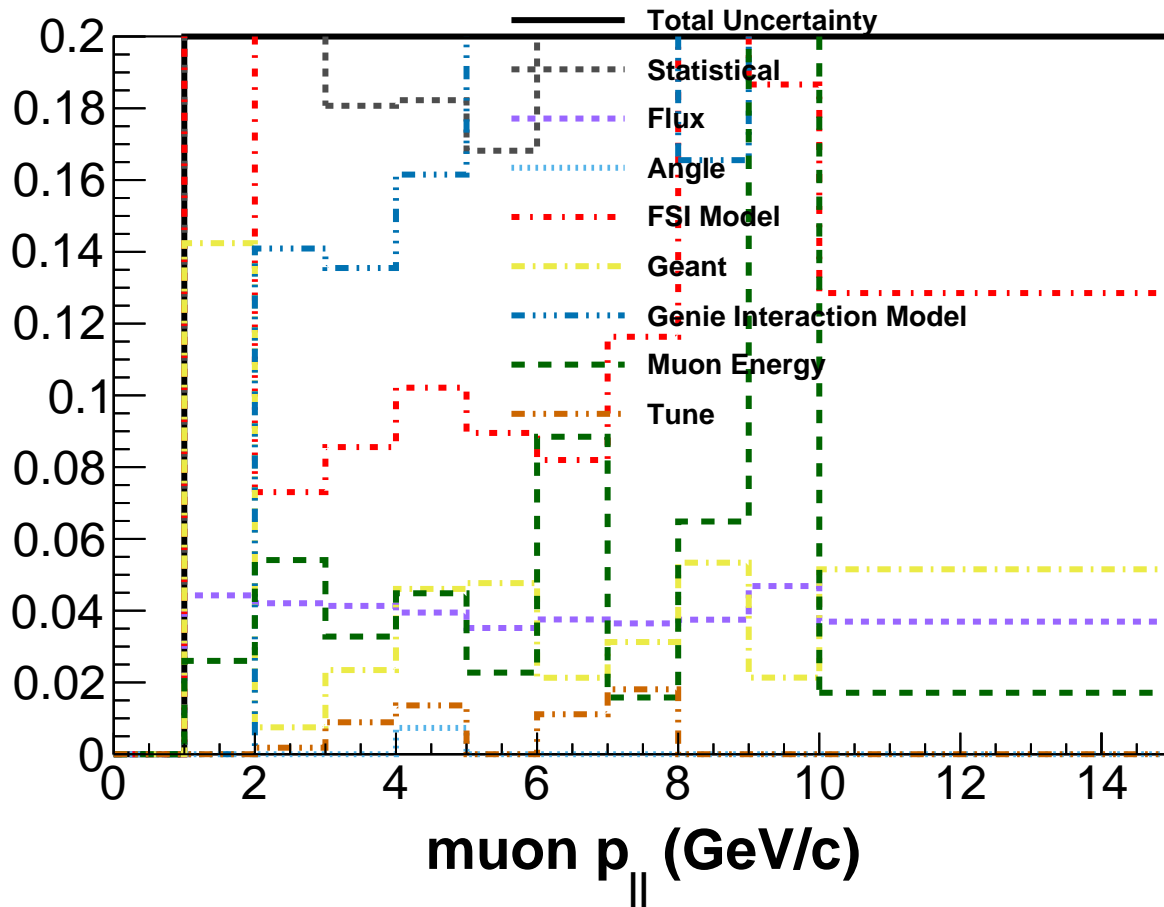


DATA_vs_MC

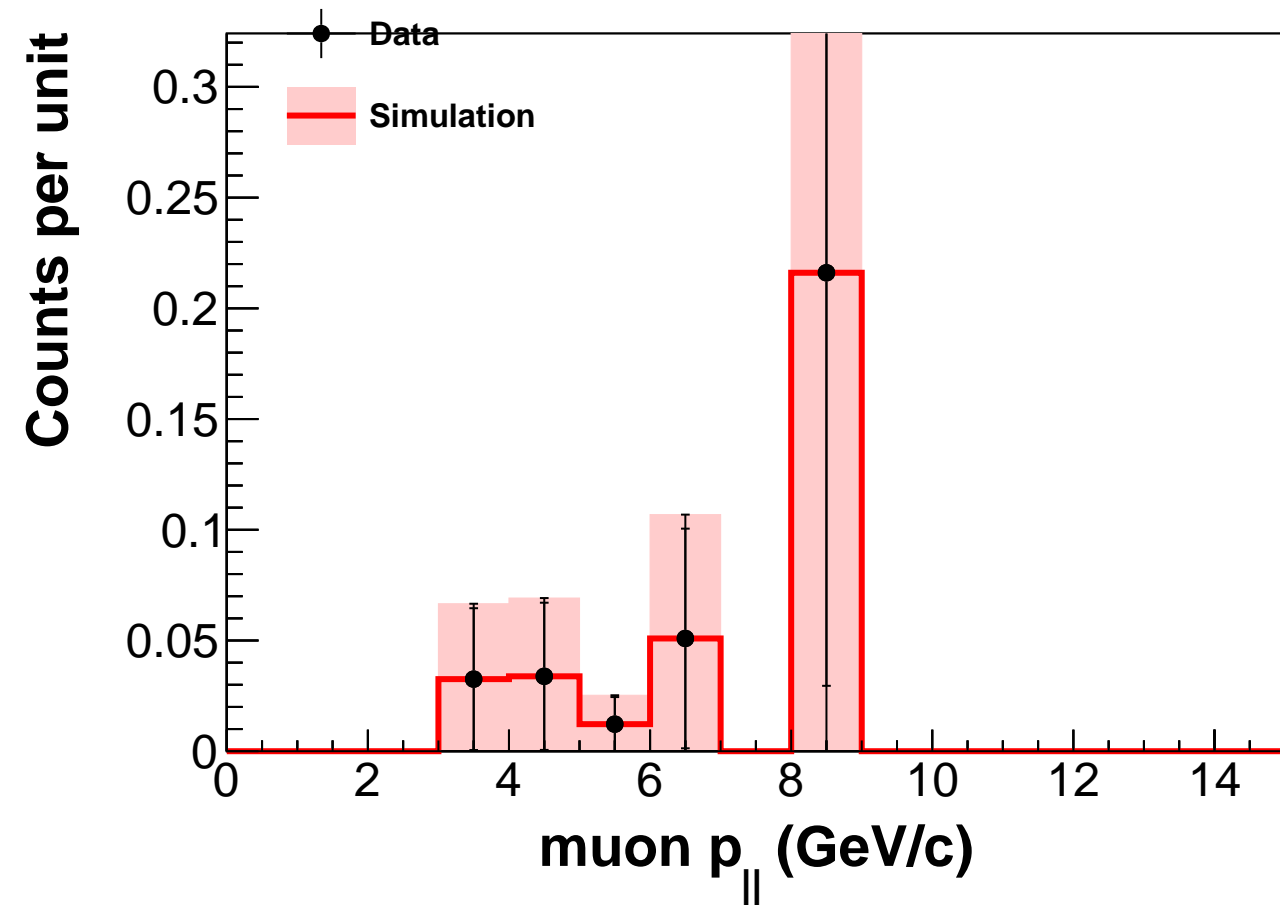


Raw MC Systematics

Fractional Uncertainty

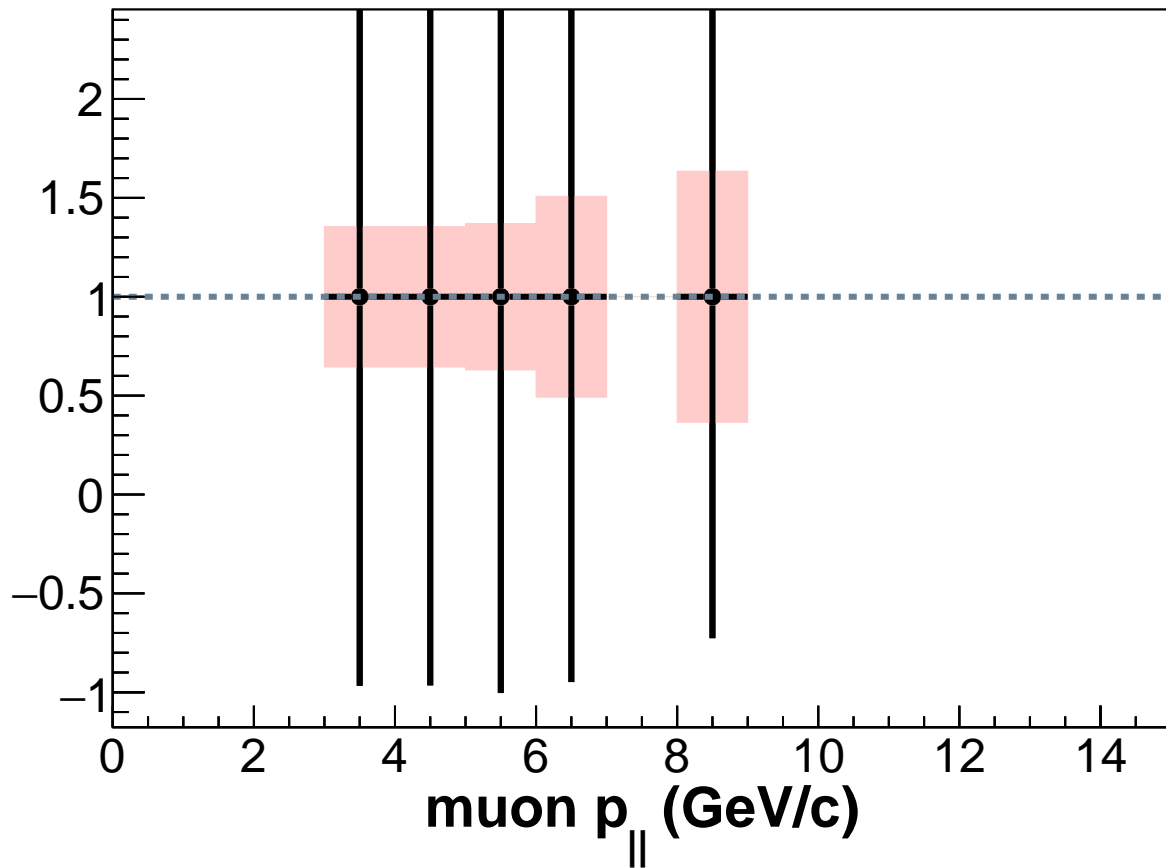


Signal Fraction



Signal Fraction

Data / MC



Signal Fraction Systematics



Total Uncertainty

Statistical

Flux

Angle

FSI Model

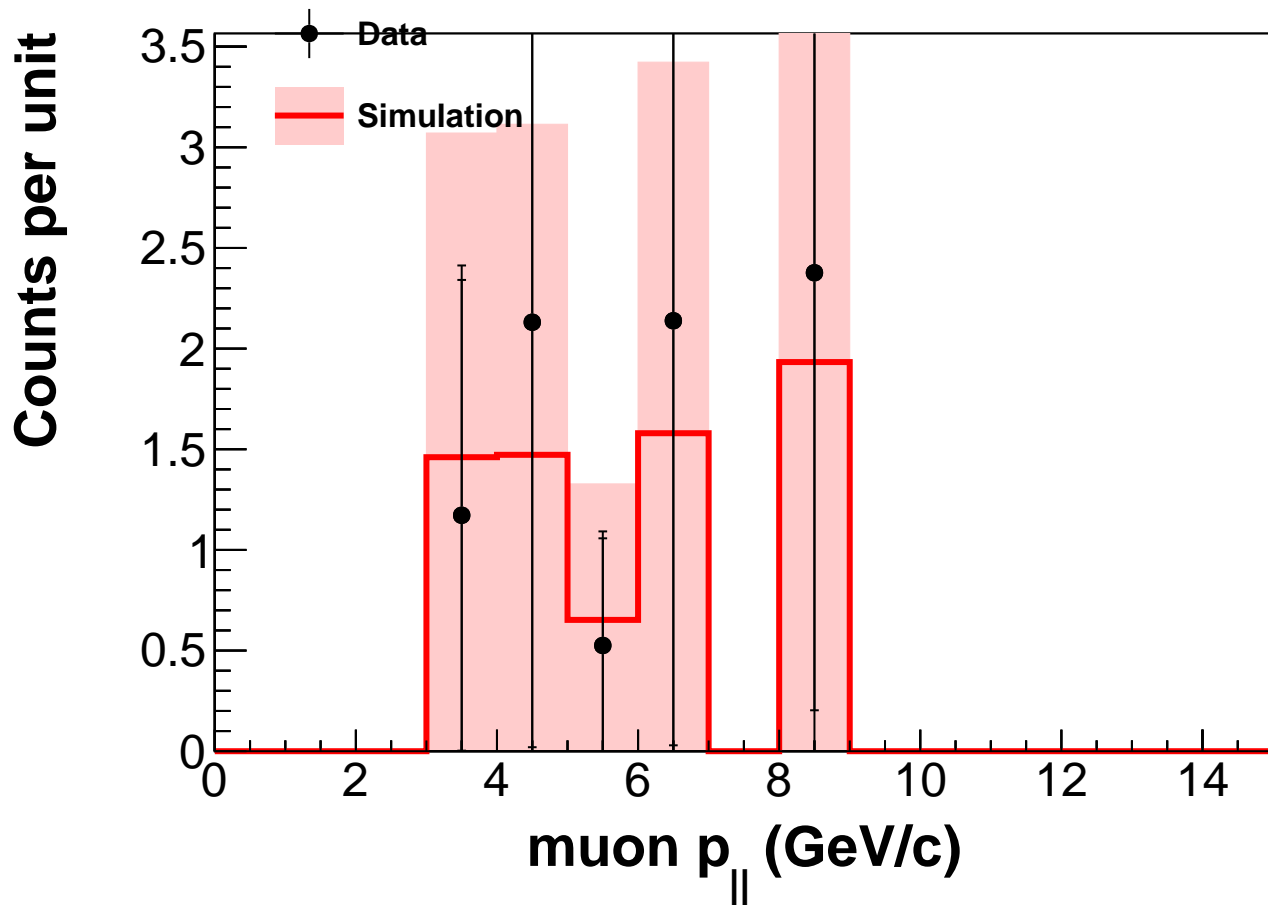
Geant

Genie Interaction Model

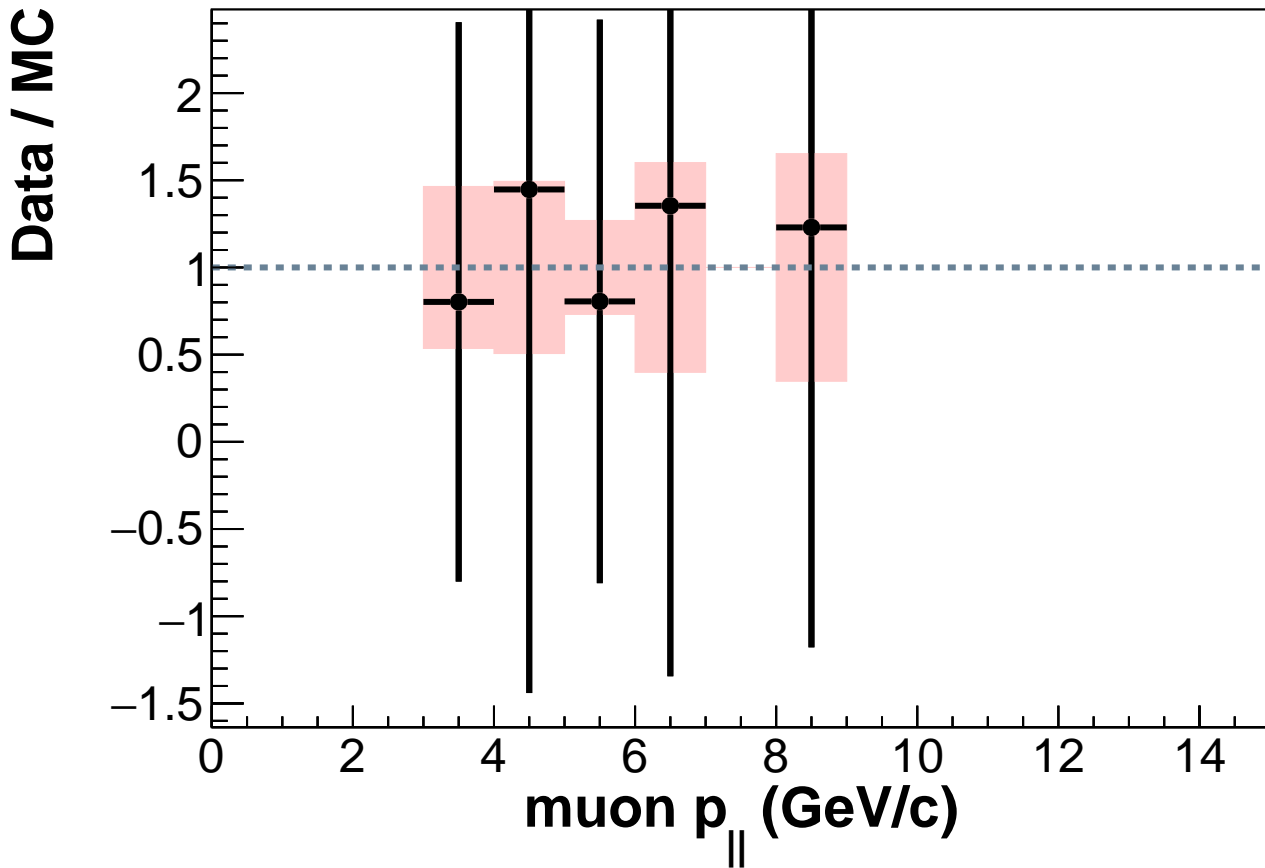
Muon Energy

Tune

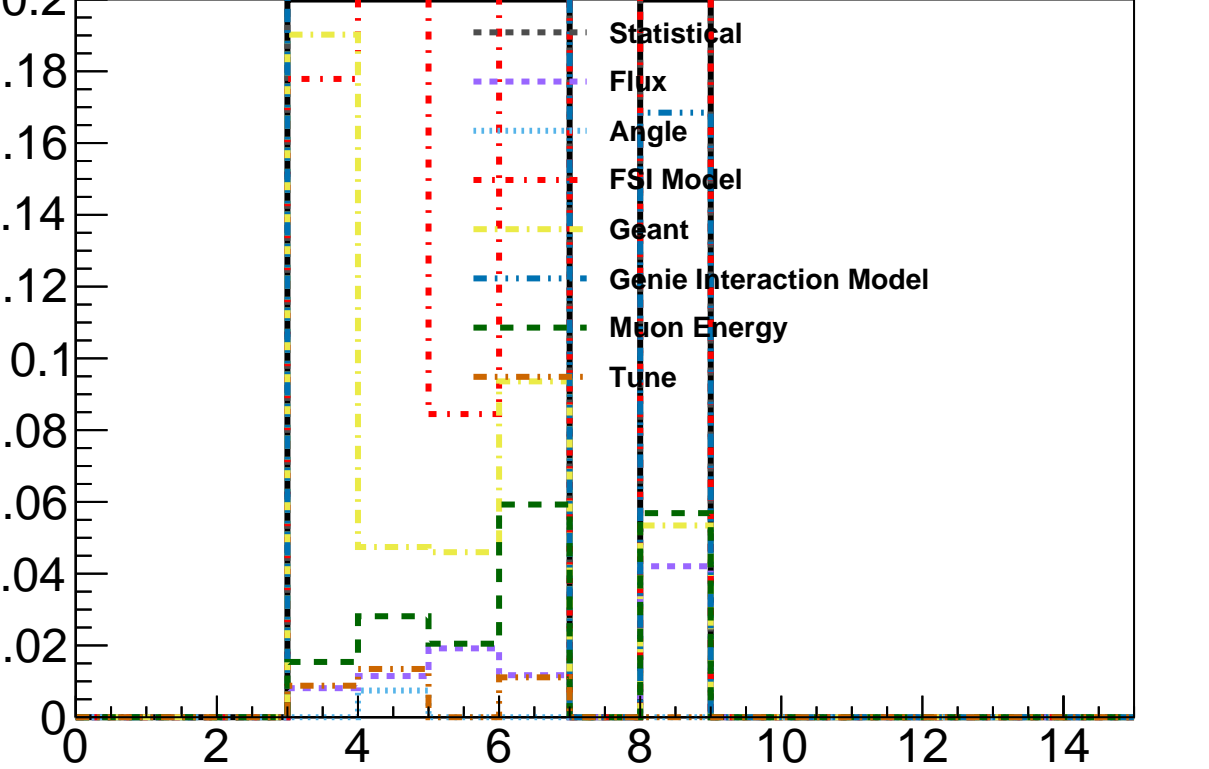
BKGsub vs. MC signal



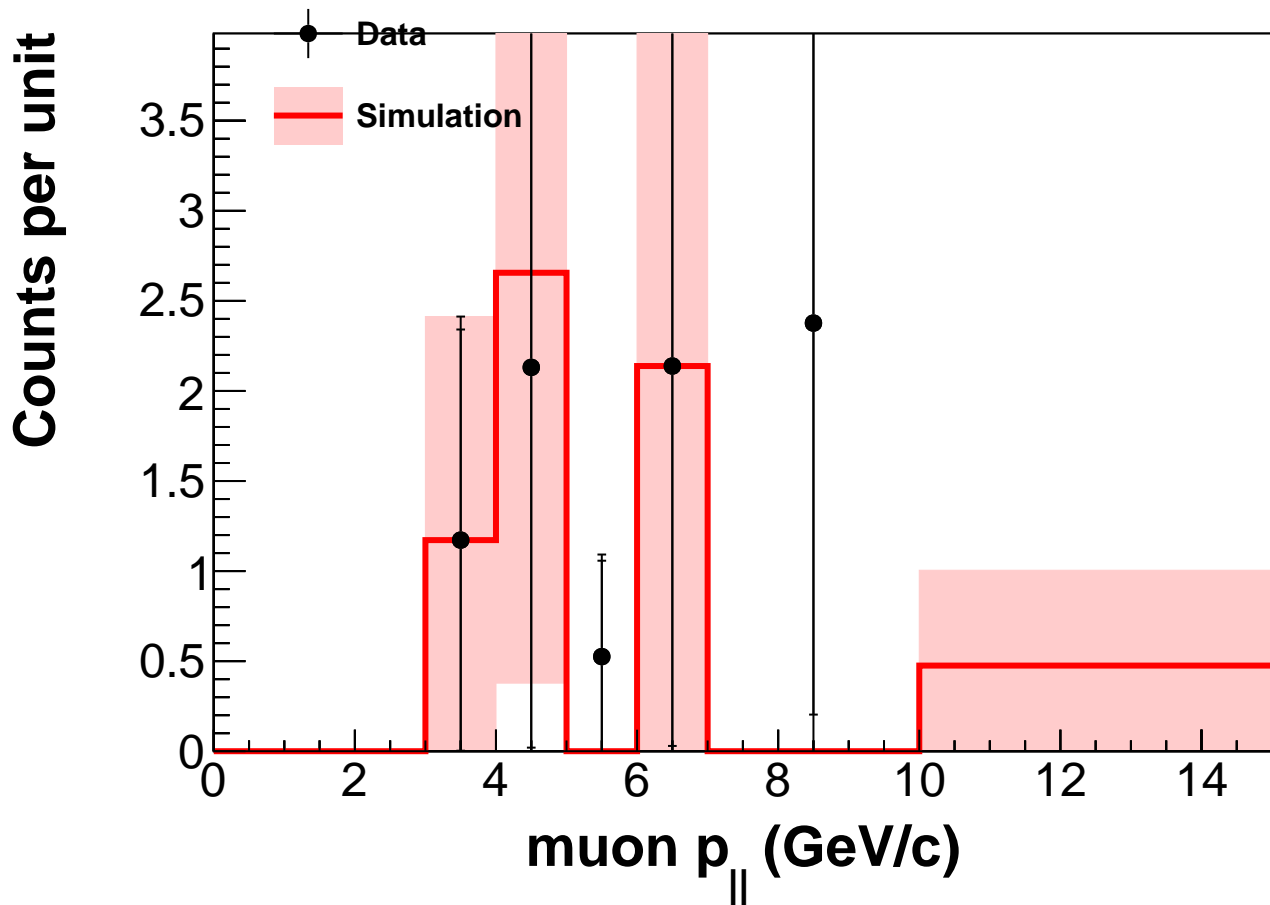
BKGsub vs. MC signal



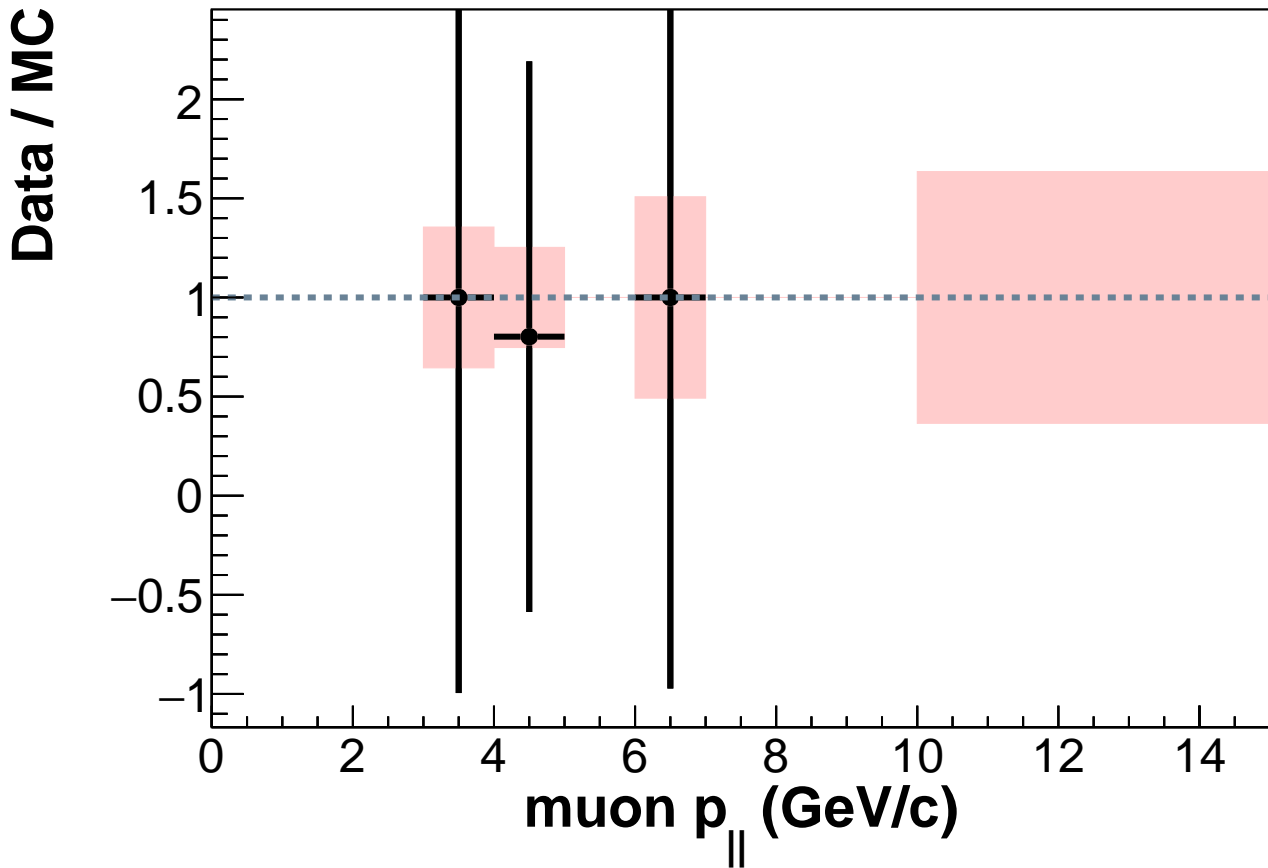
0.2  Total Uncertainty



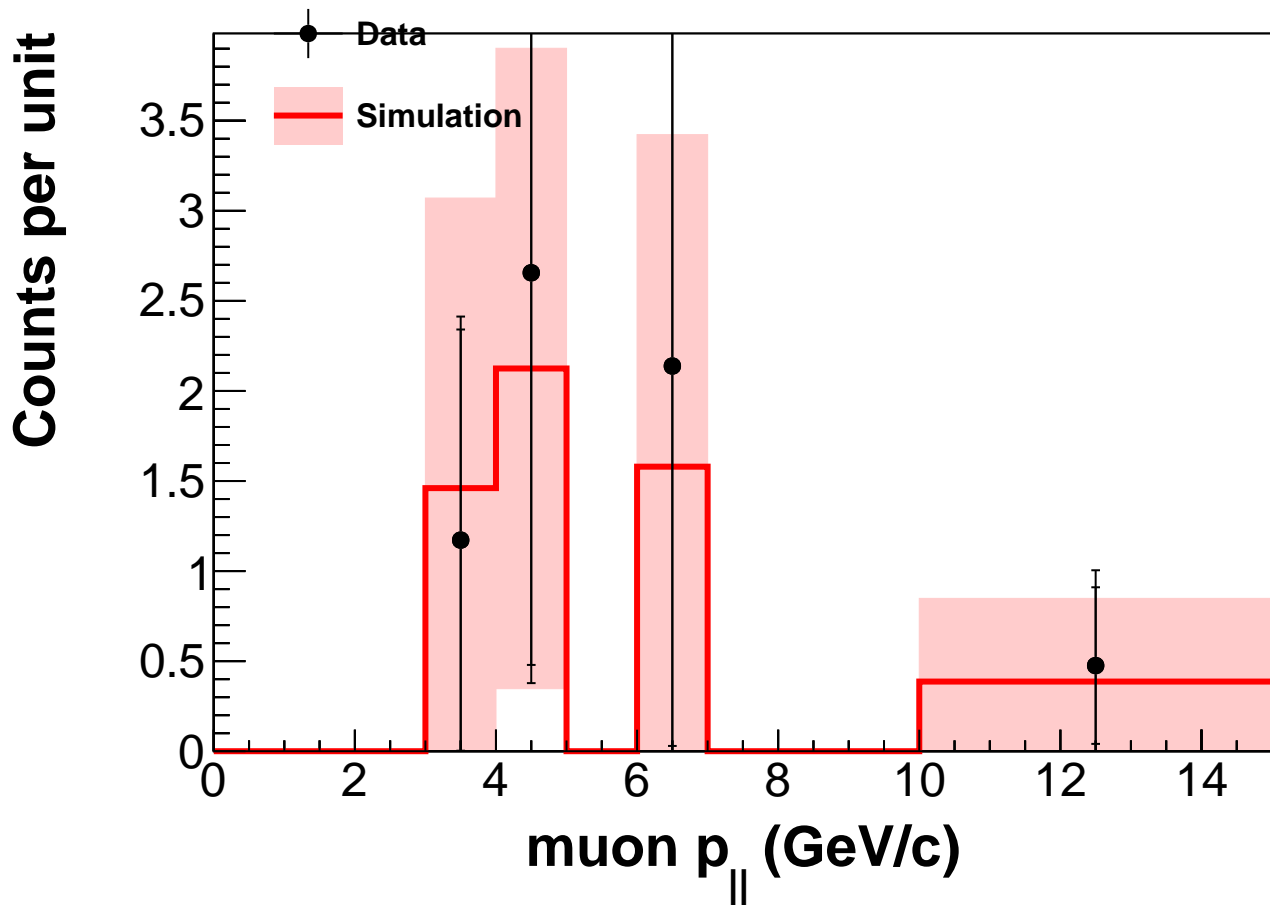
Data Before and After Unsmearing



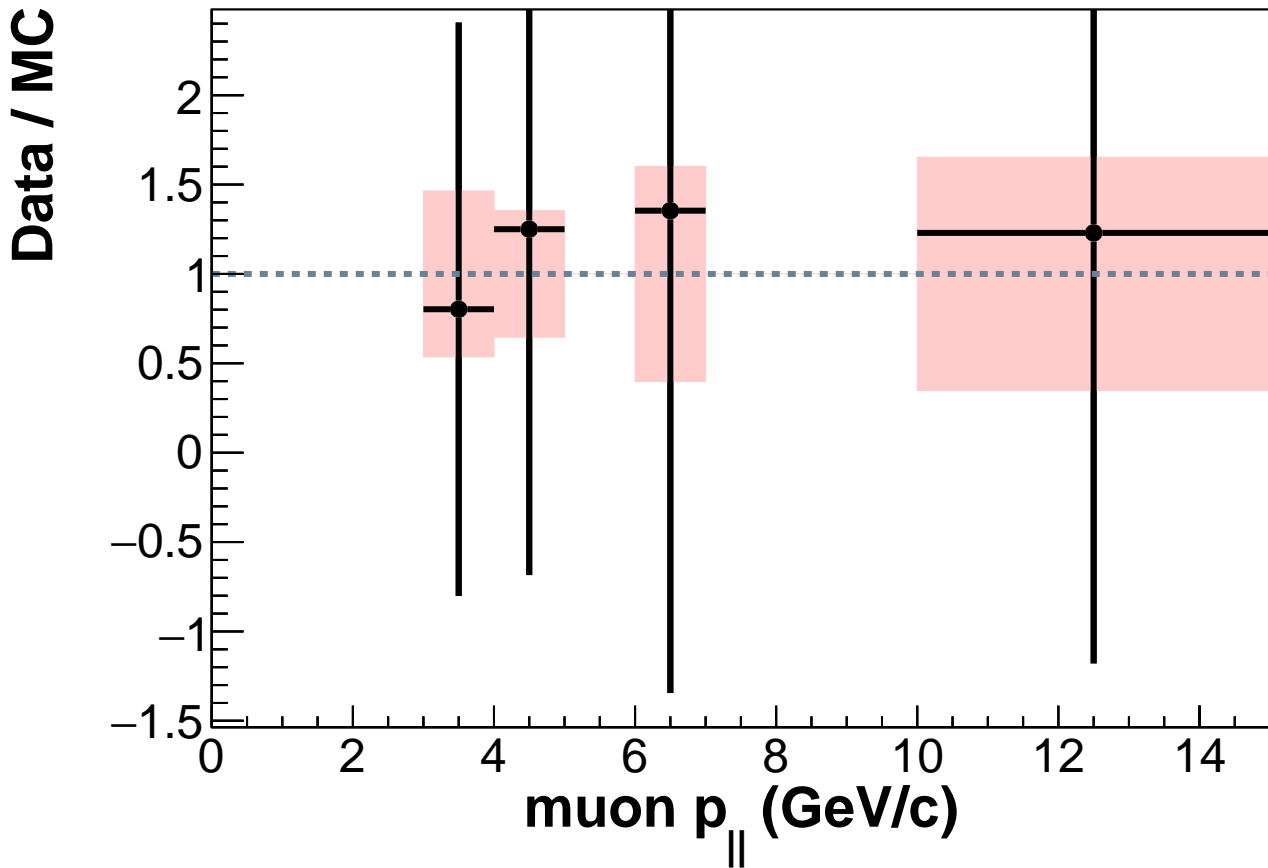
Data Before and After Unsmearing



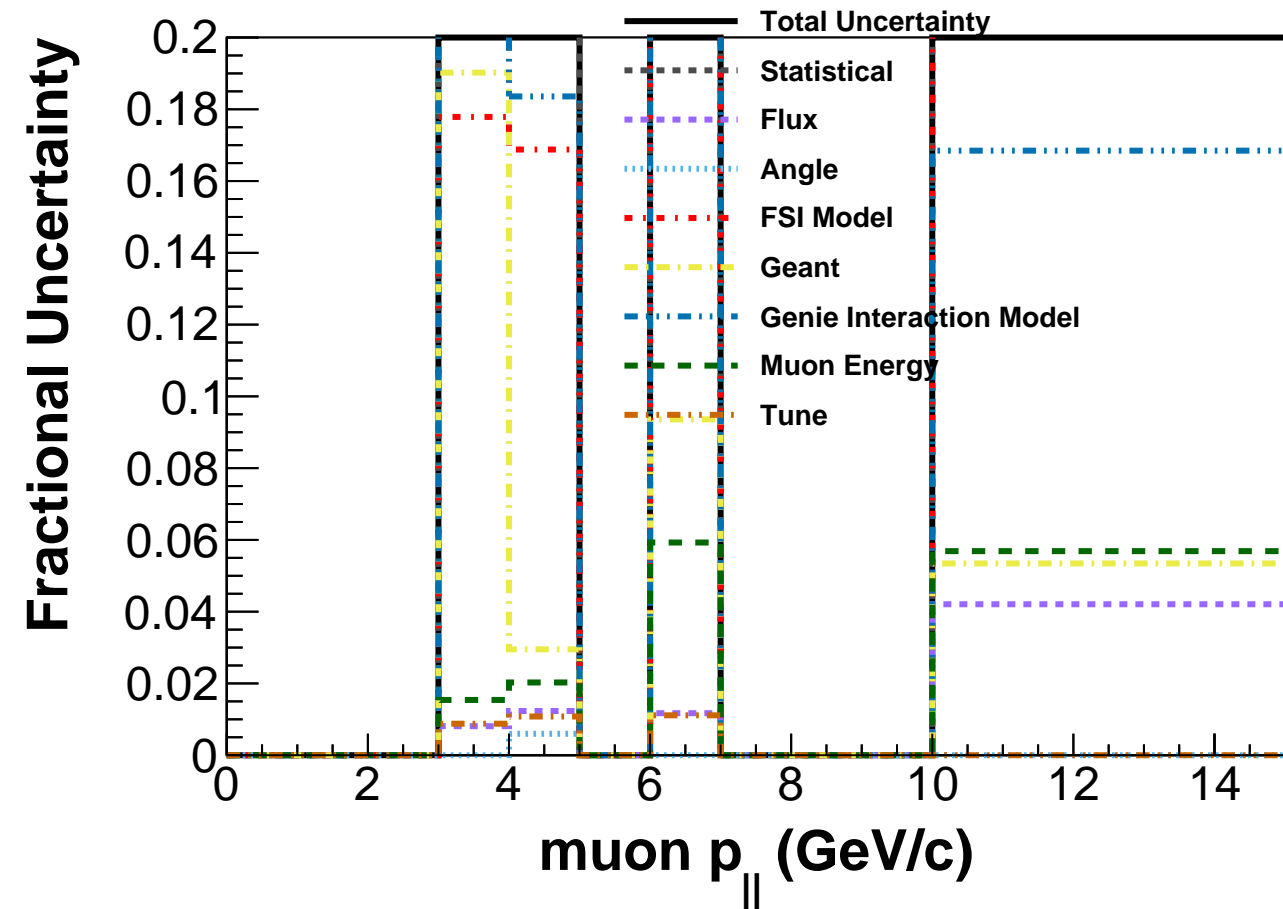
Unsmeared Data Compared to Selected MC



Unsmeared Data Compared to Selected MC

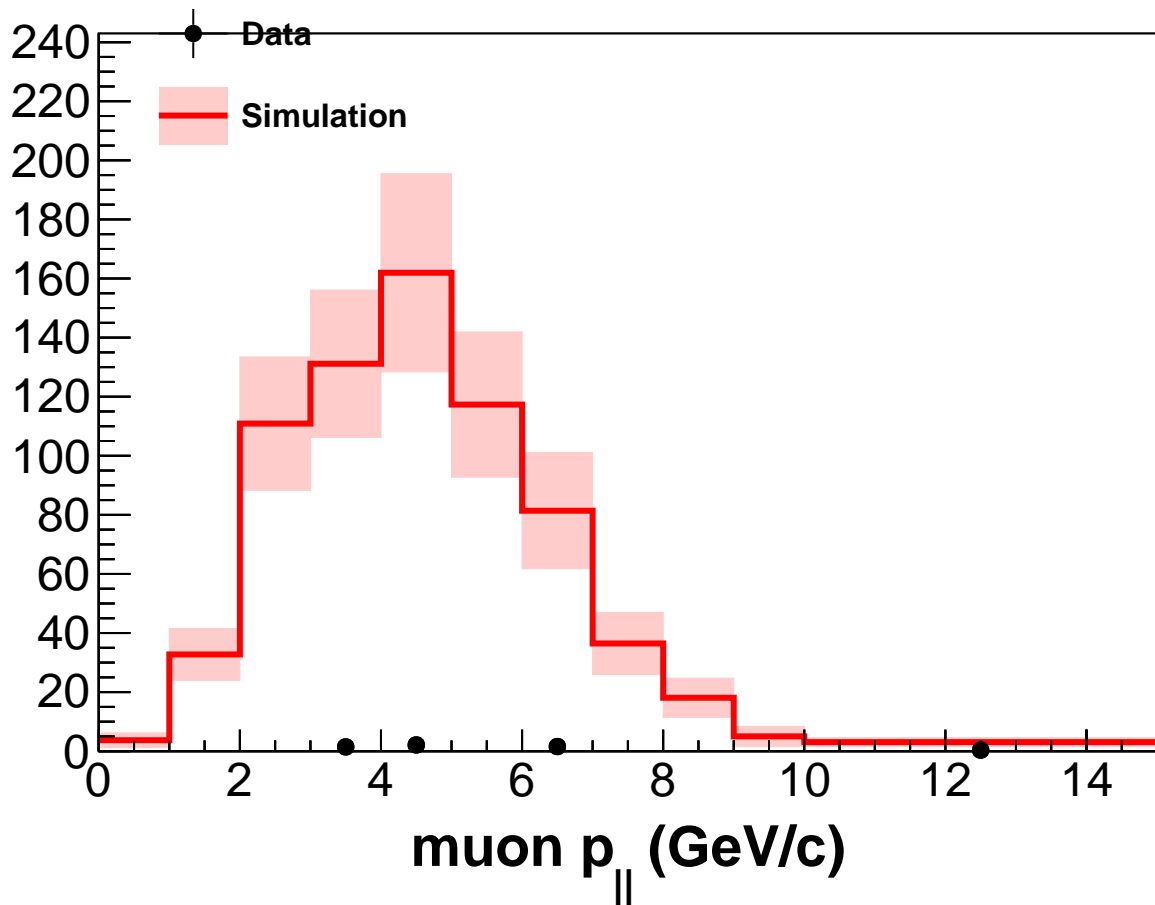


Unsmeared Data Systematics

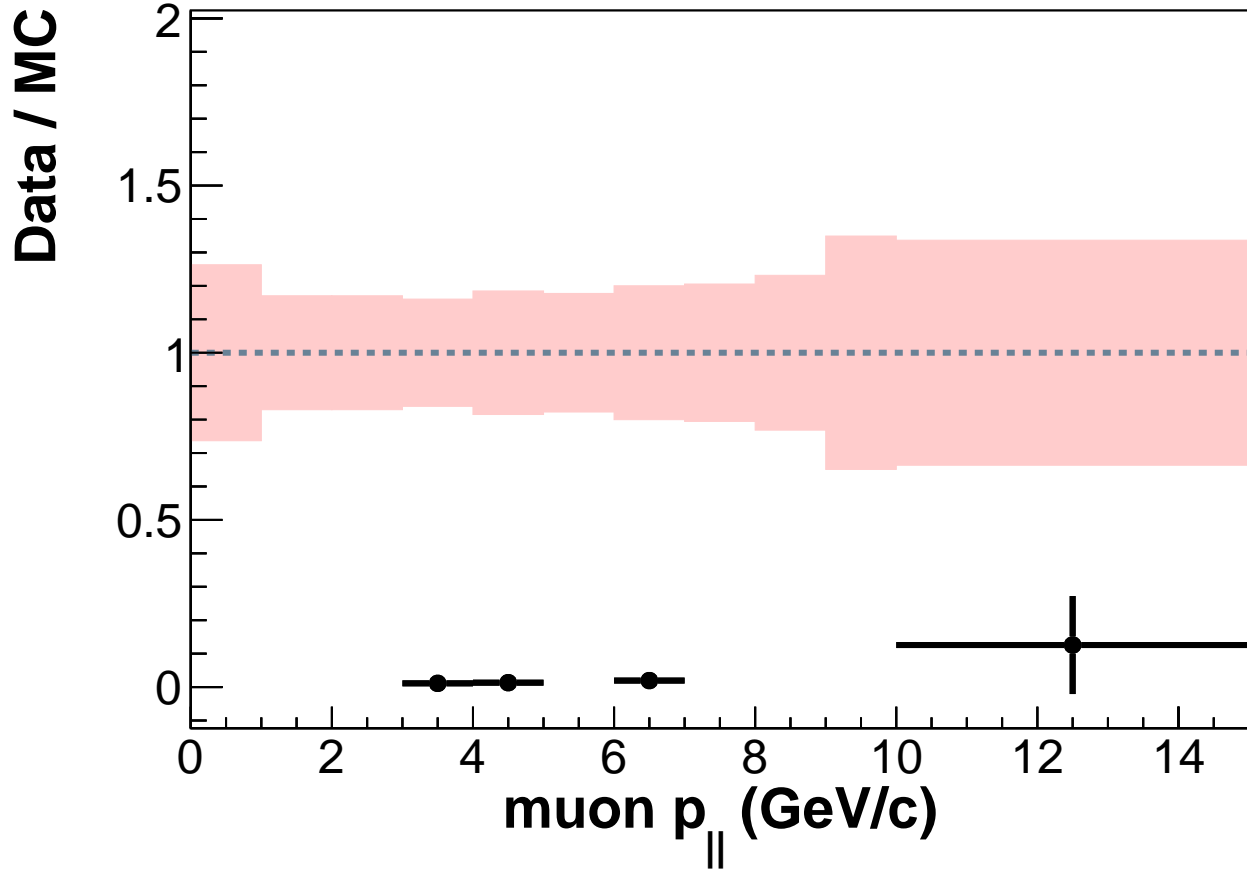


efficiency: selected and true

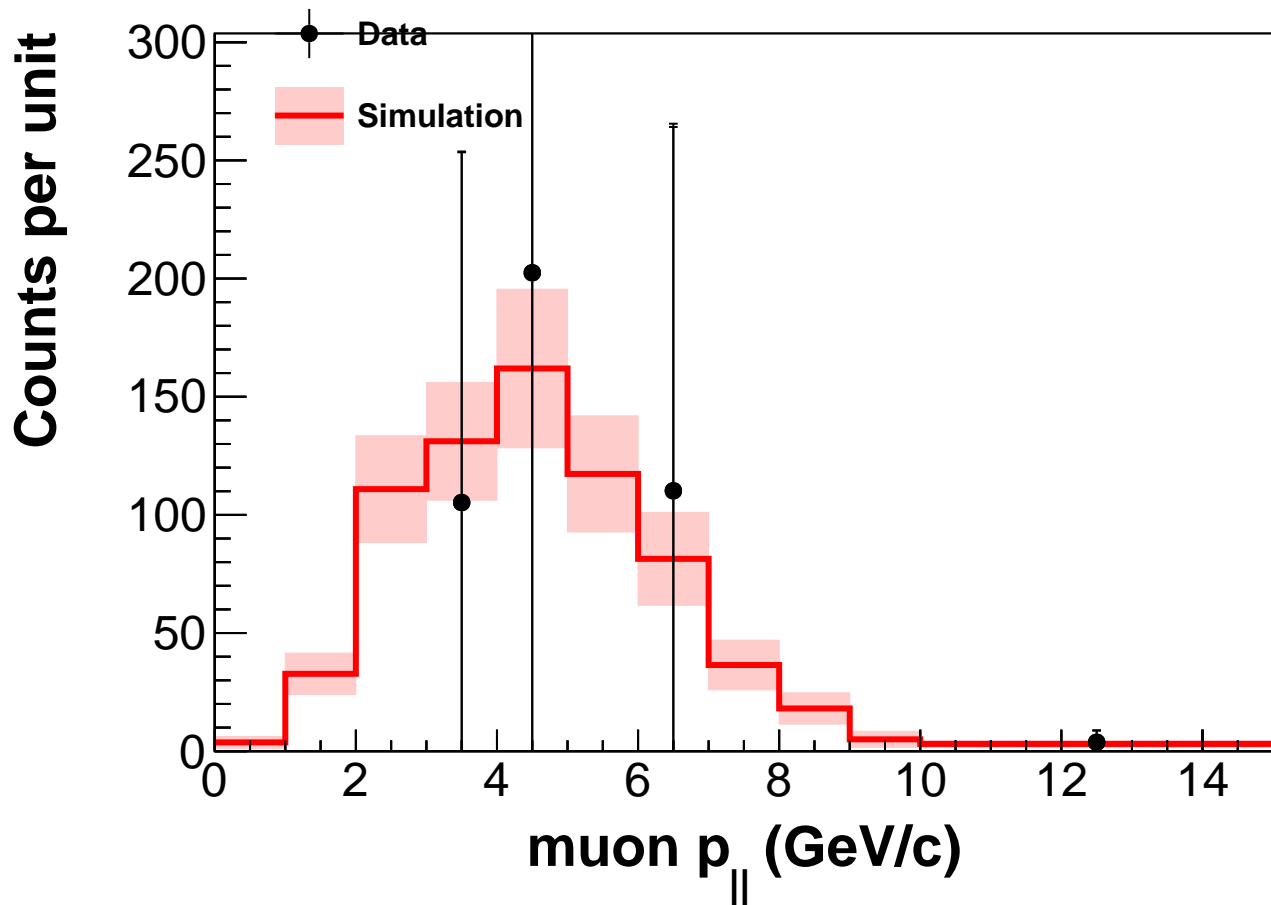
Counts per unit



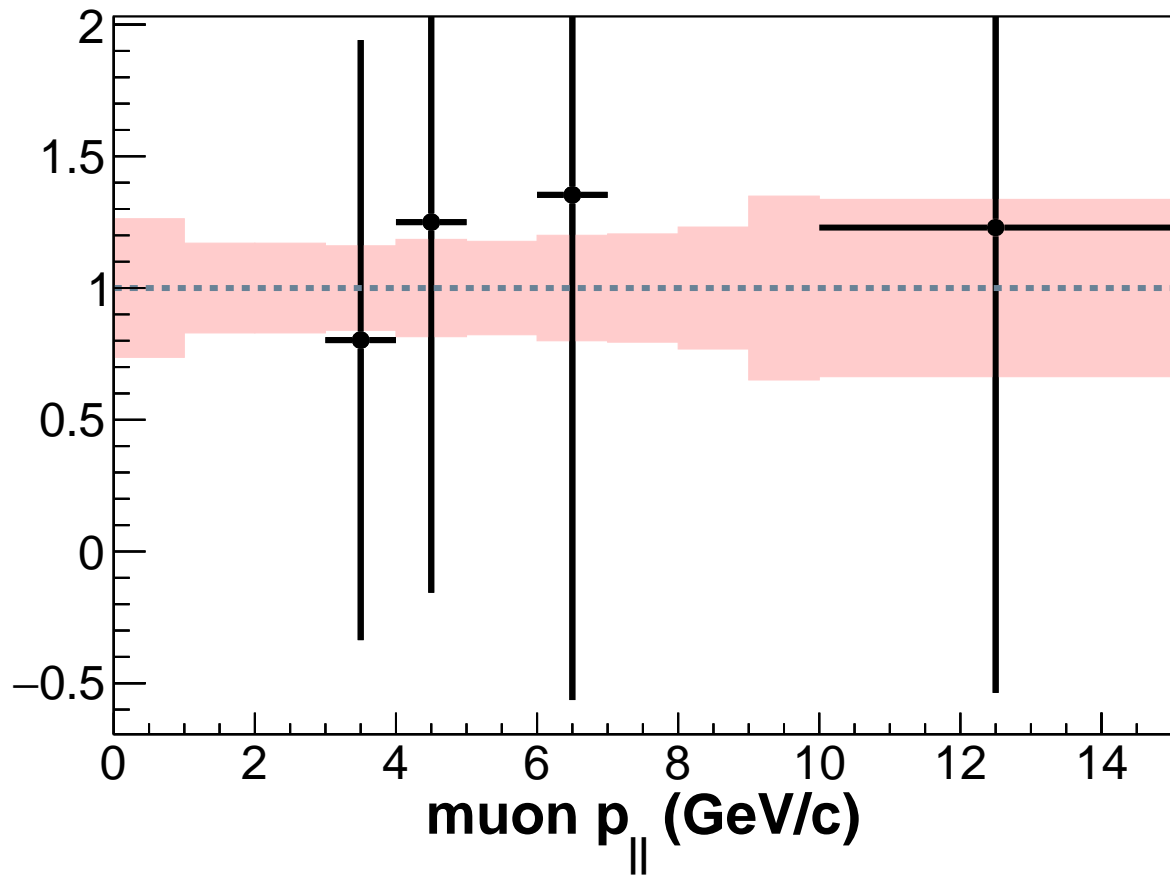
efficiency: selected and true



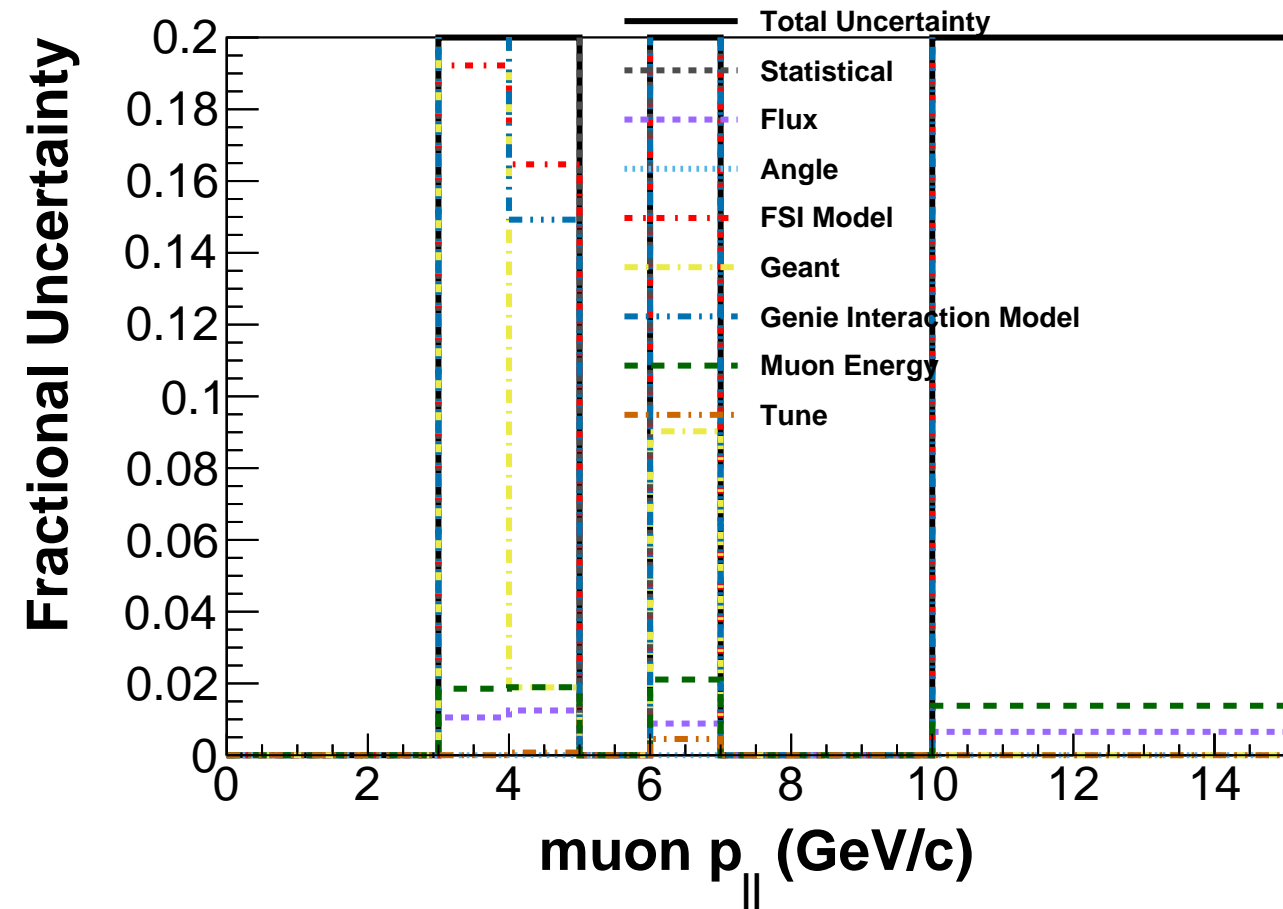
effcorr data vs truth



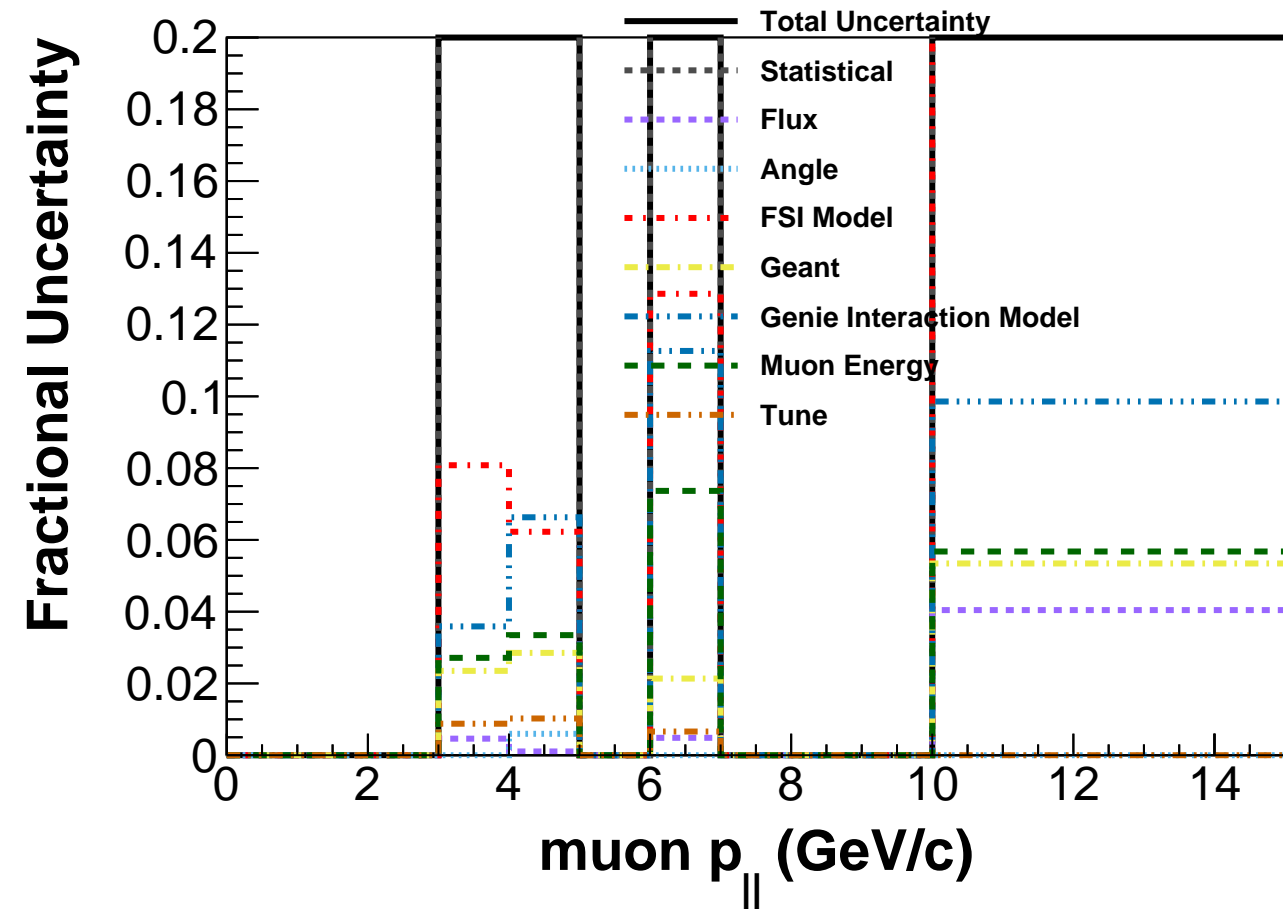
effcorr data vs truth



Efficiency Factor Systematics

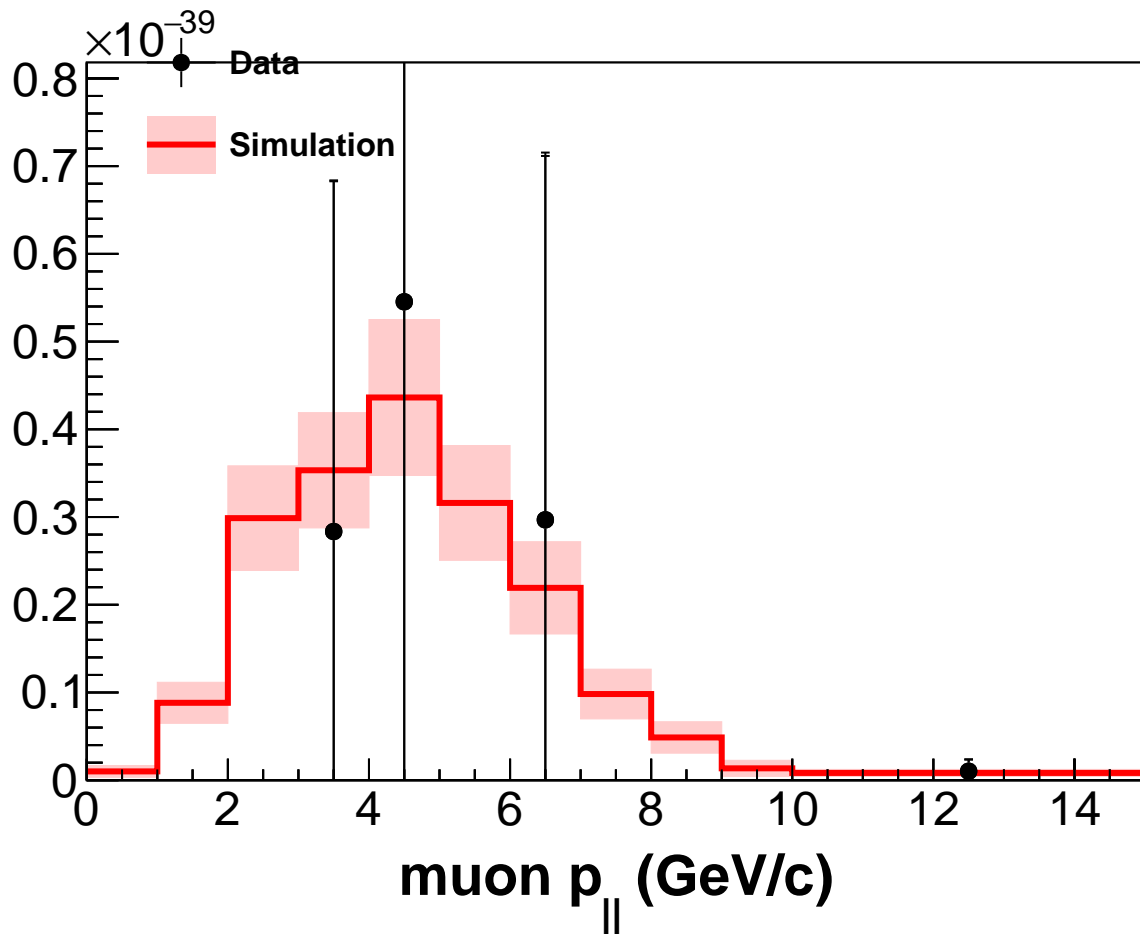


Efficiency Corrected Data Systematics



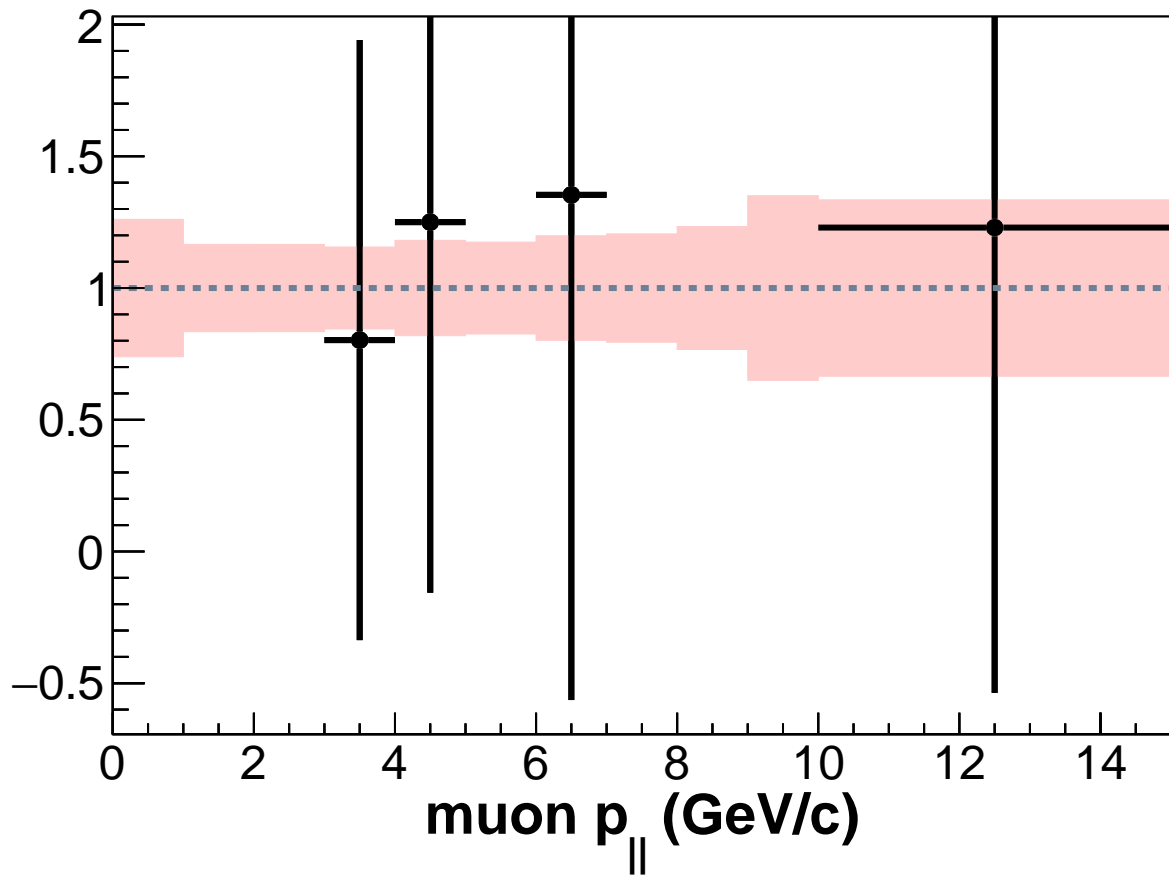
sigma

Counts per unit

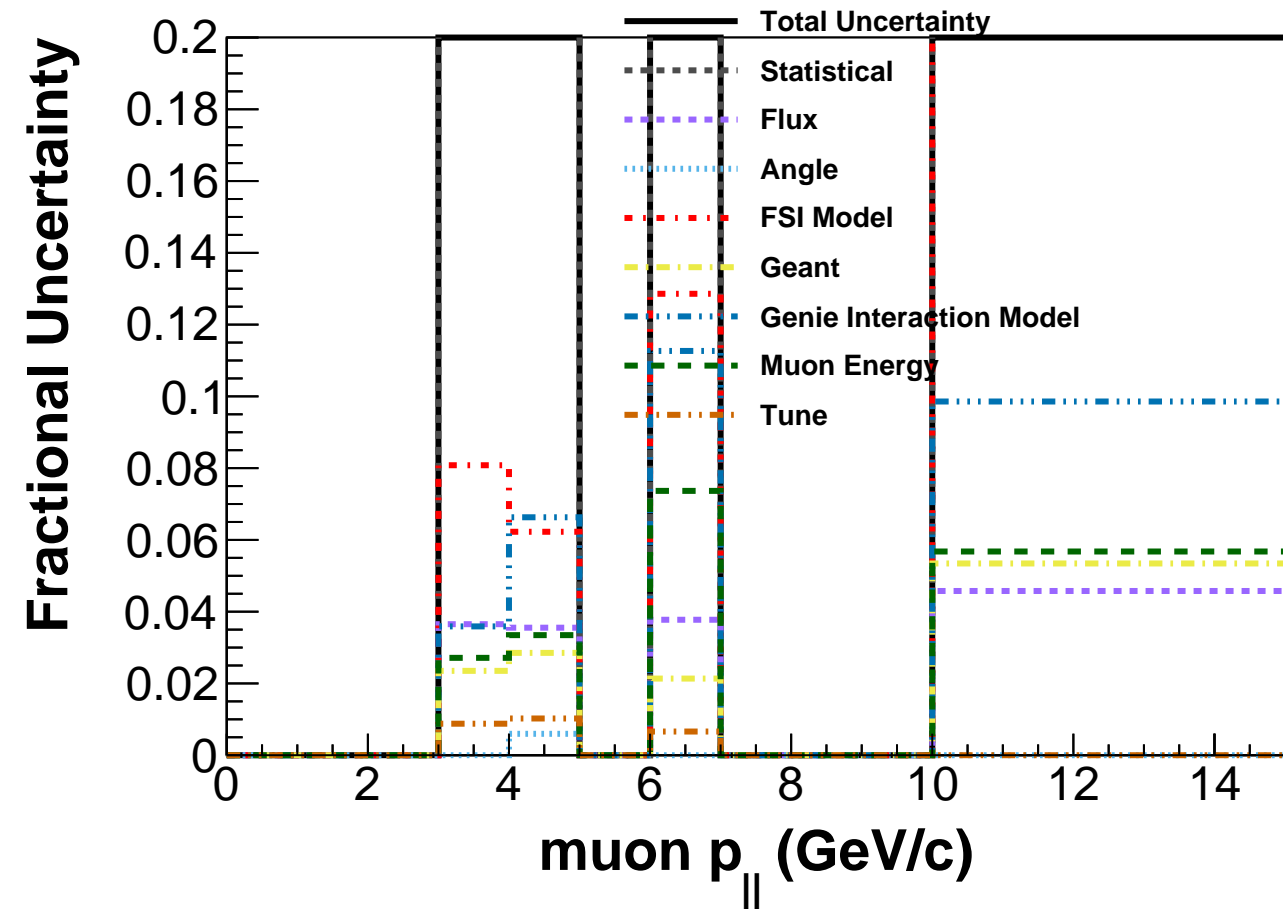


sigma

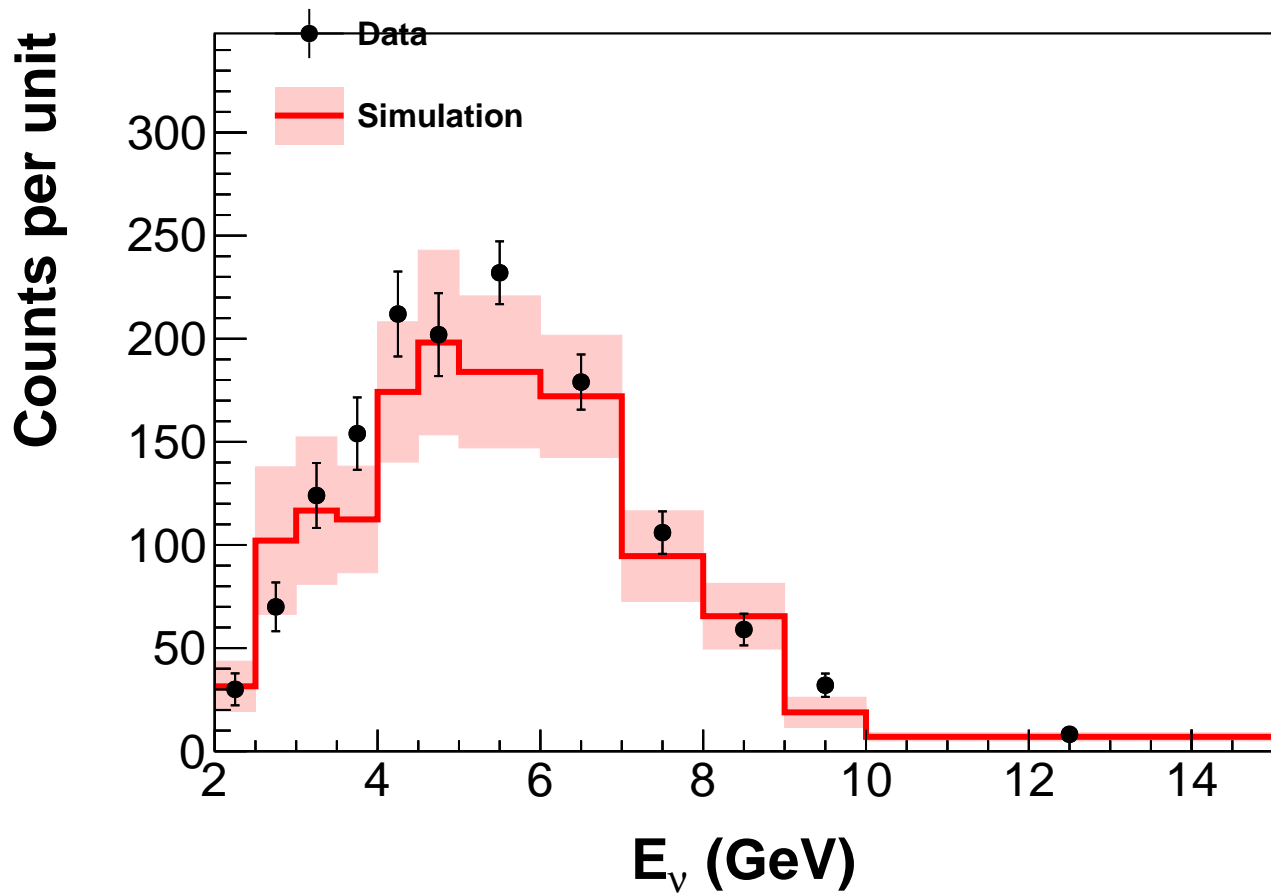
Data / MC



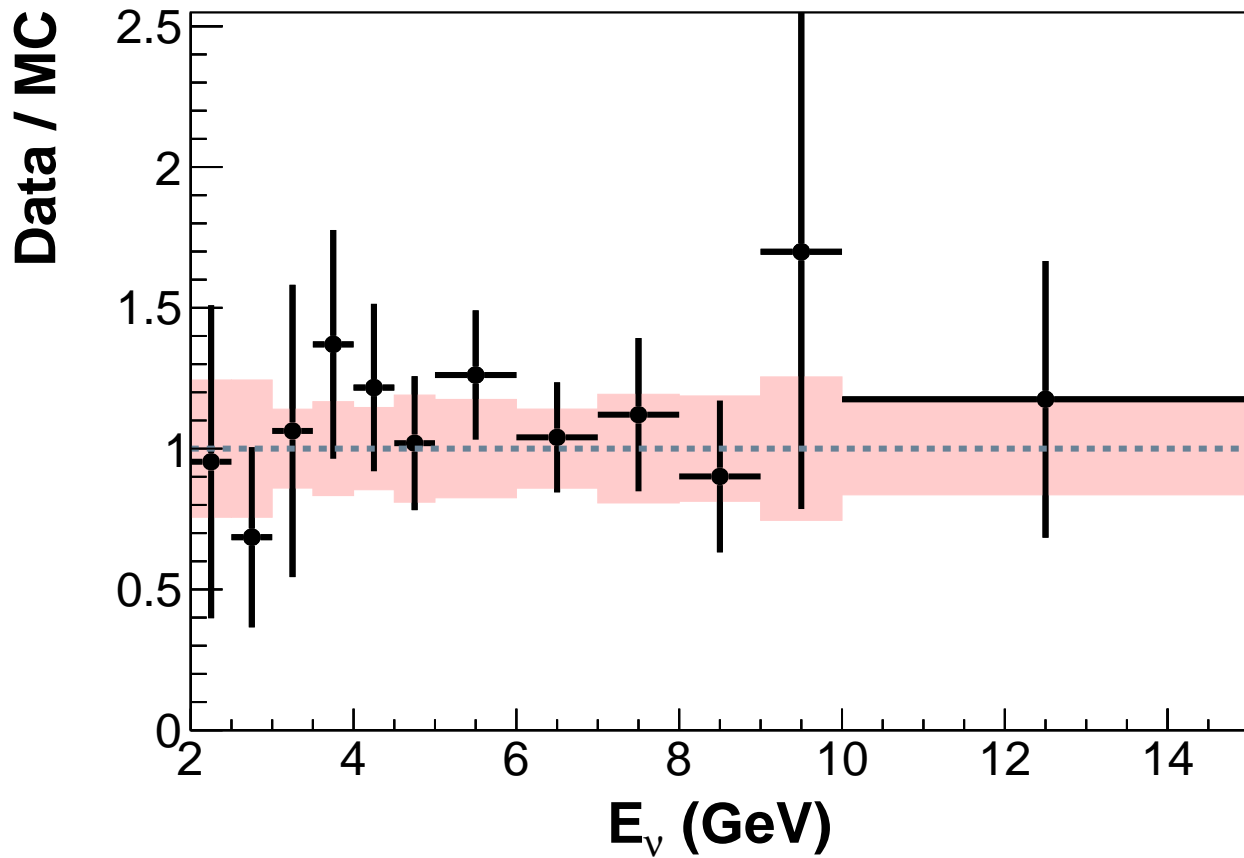
Cross Section Systematics



DATA_vs_MC

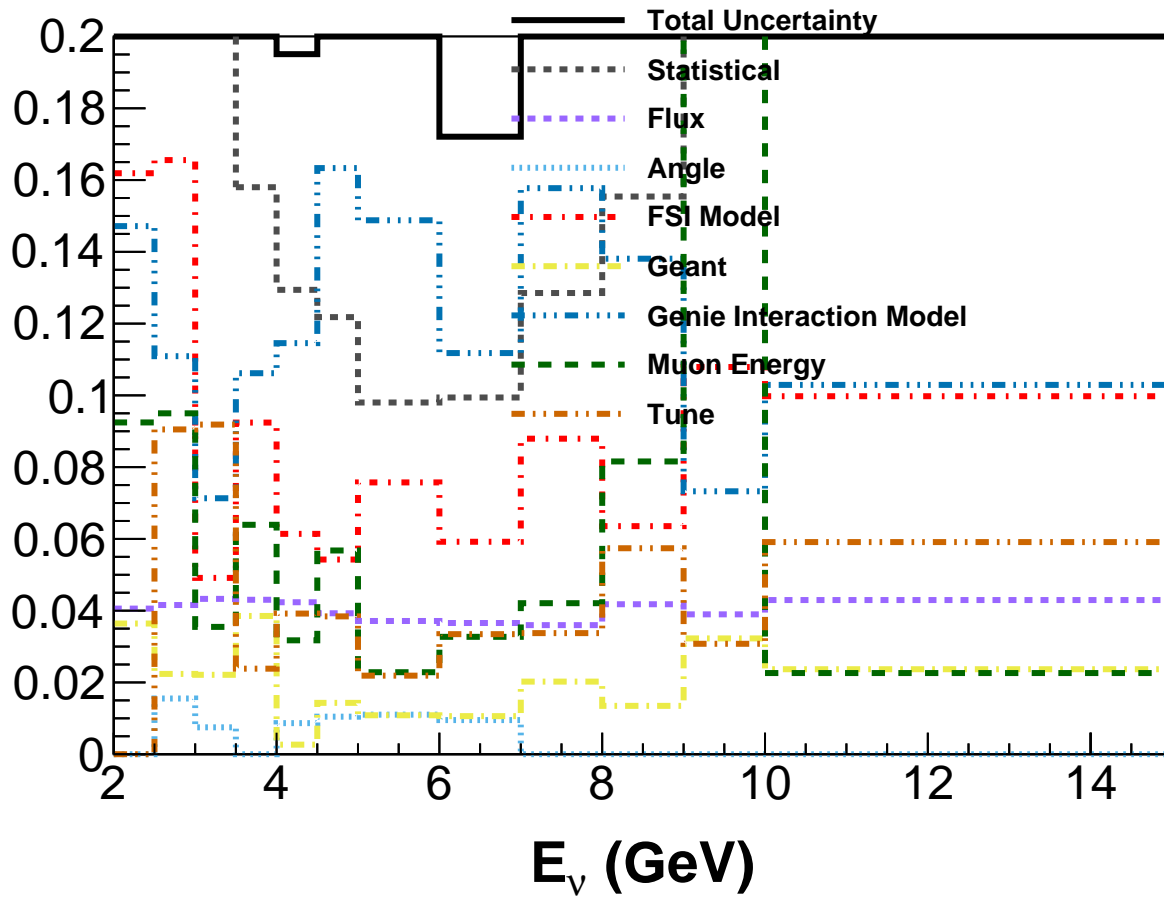


DATA_vs_MC



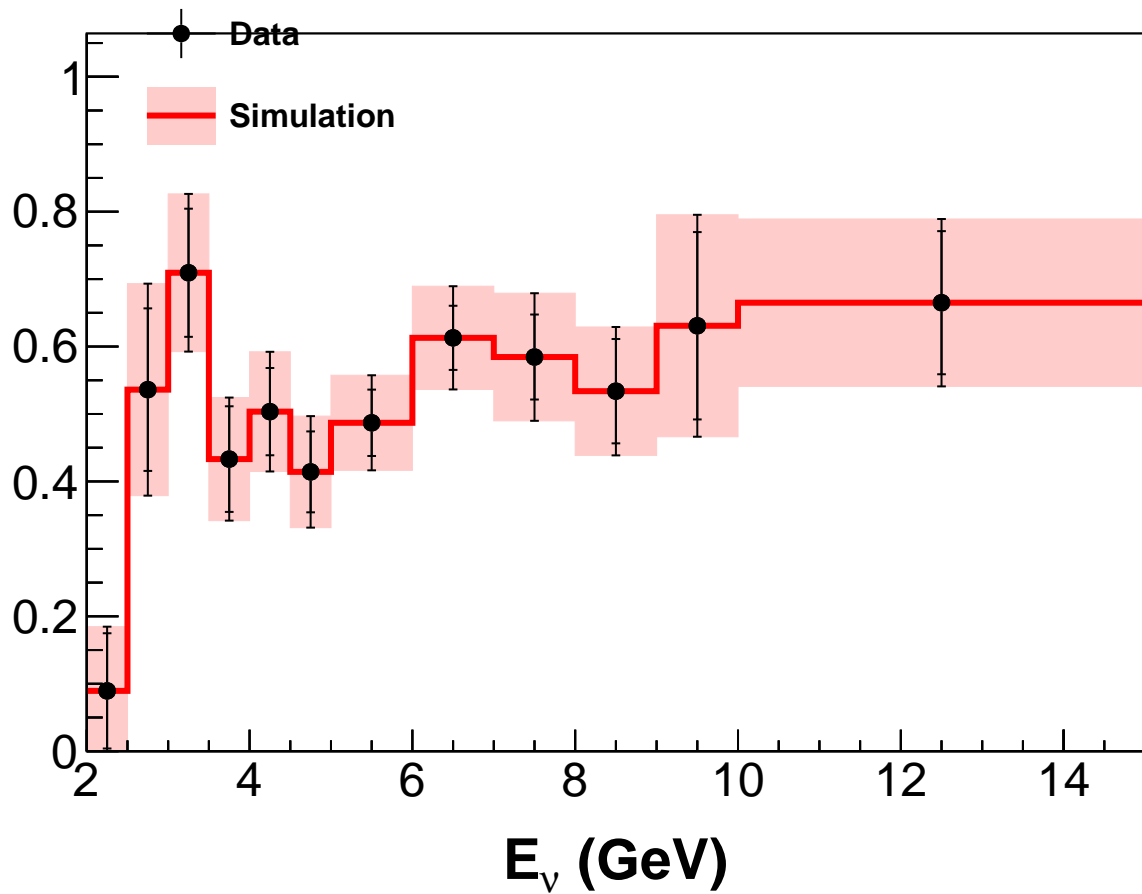
Raw MC Systematics

Fractional Uncertainty



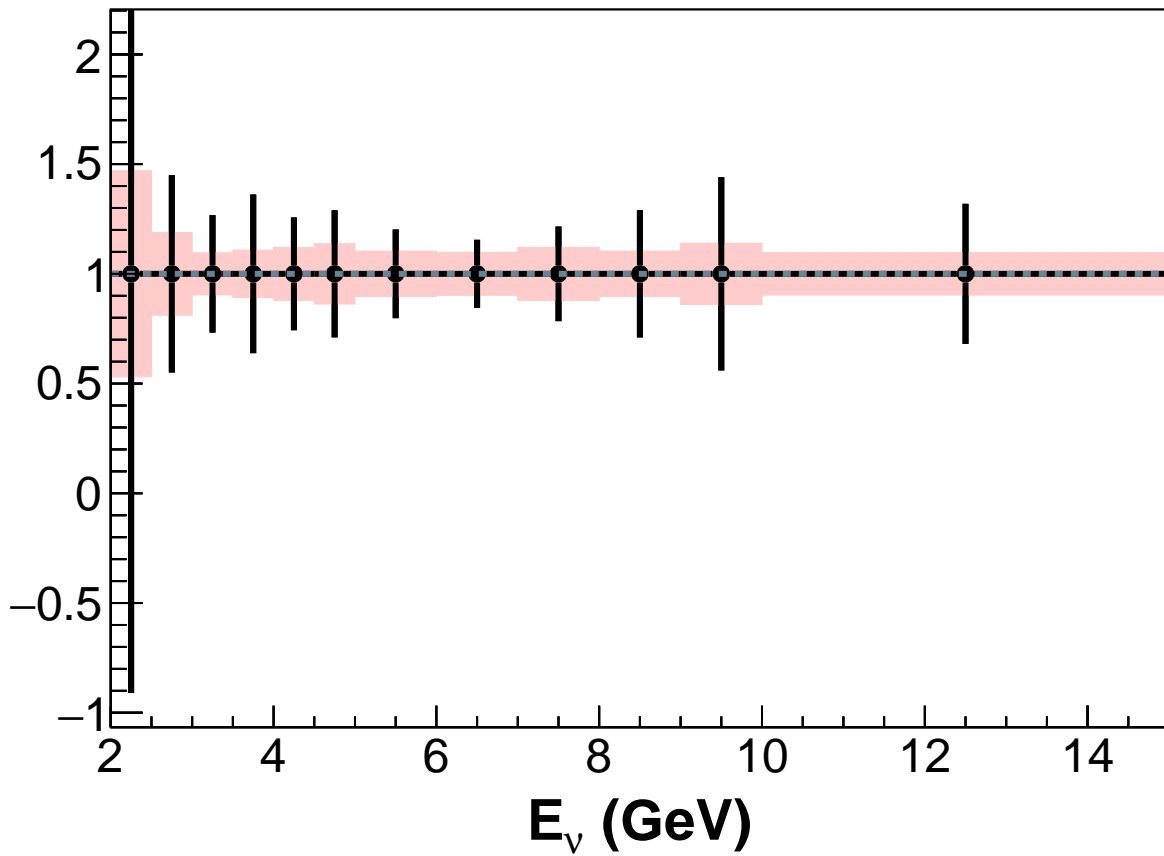
Signal Fraction

Counts per unit

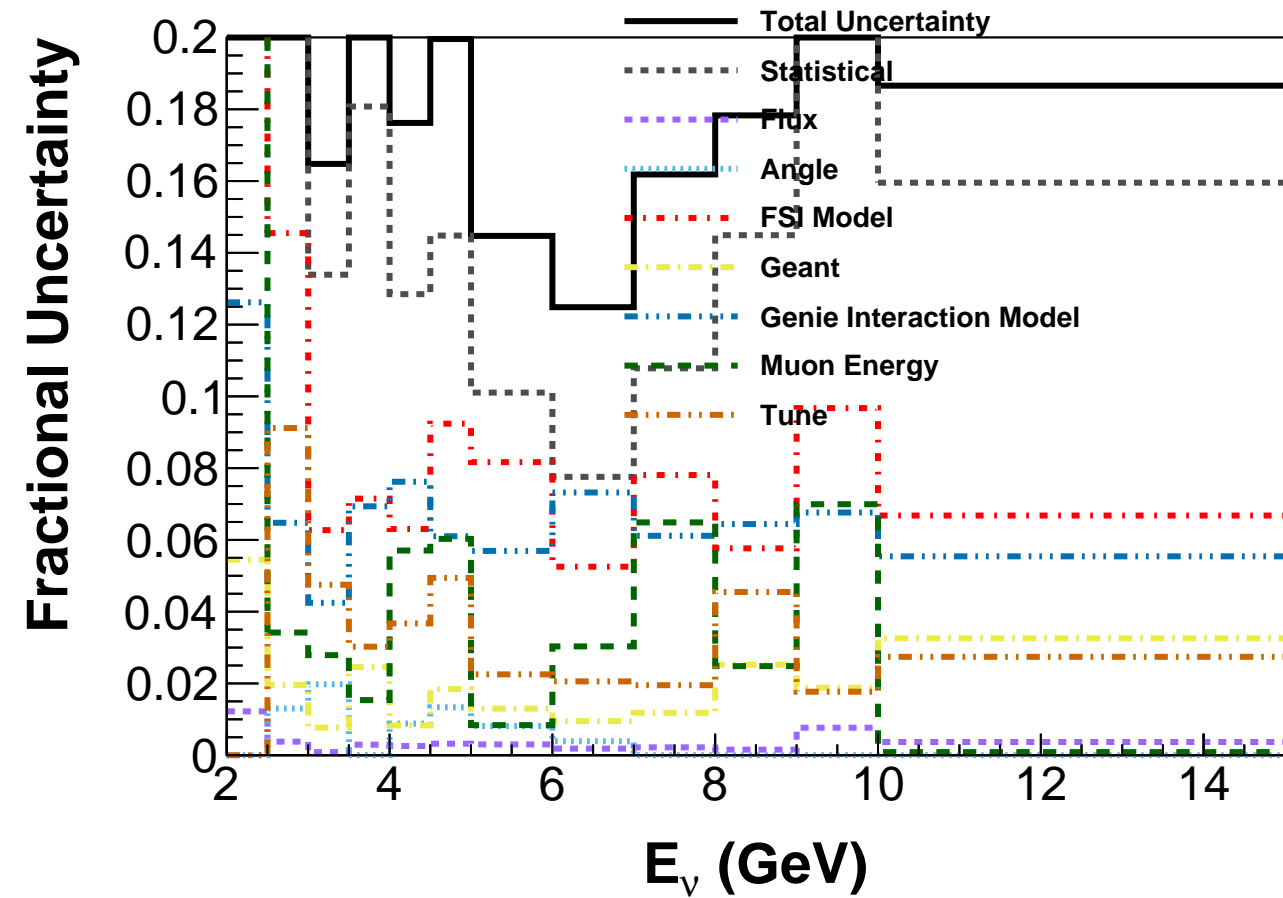


Signal Fraction

Data / MC

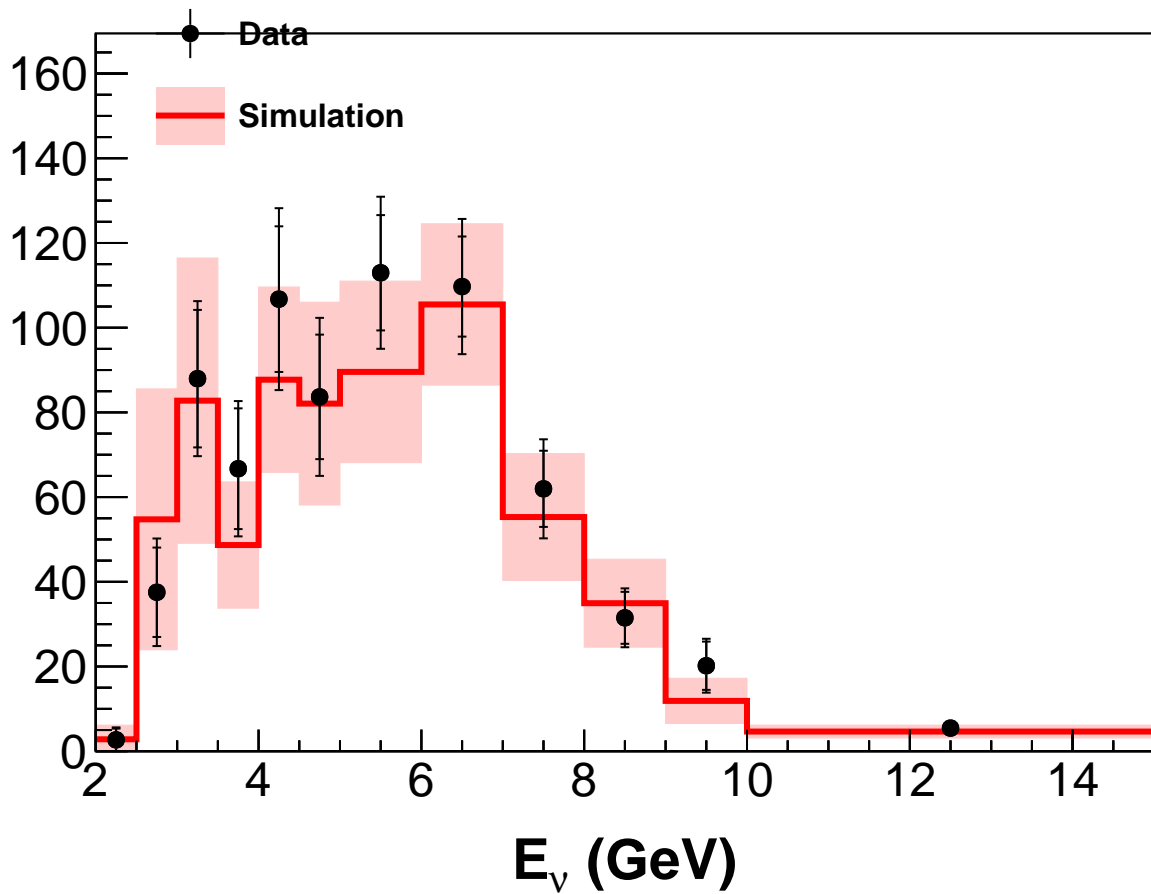


Signal Fraction Systematics

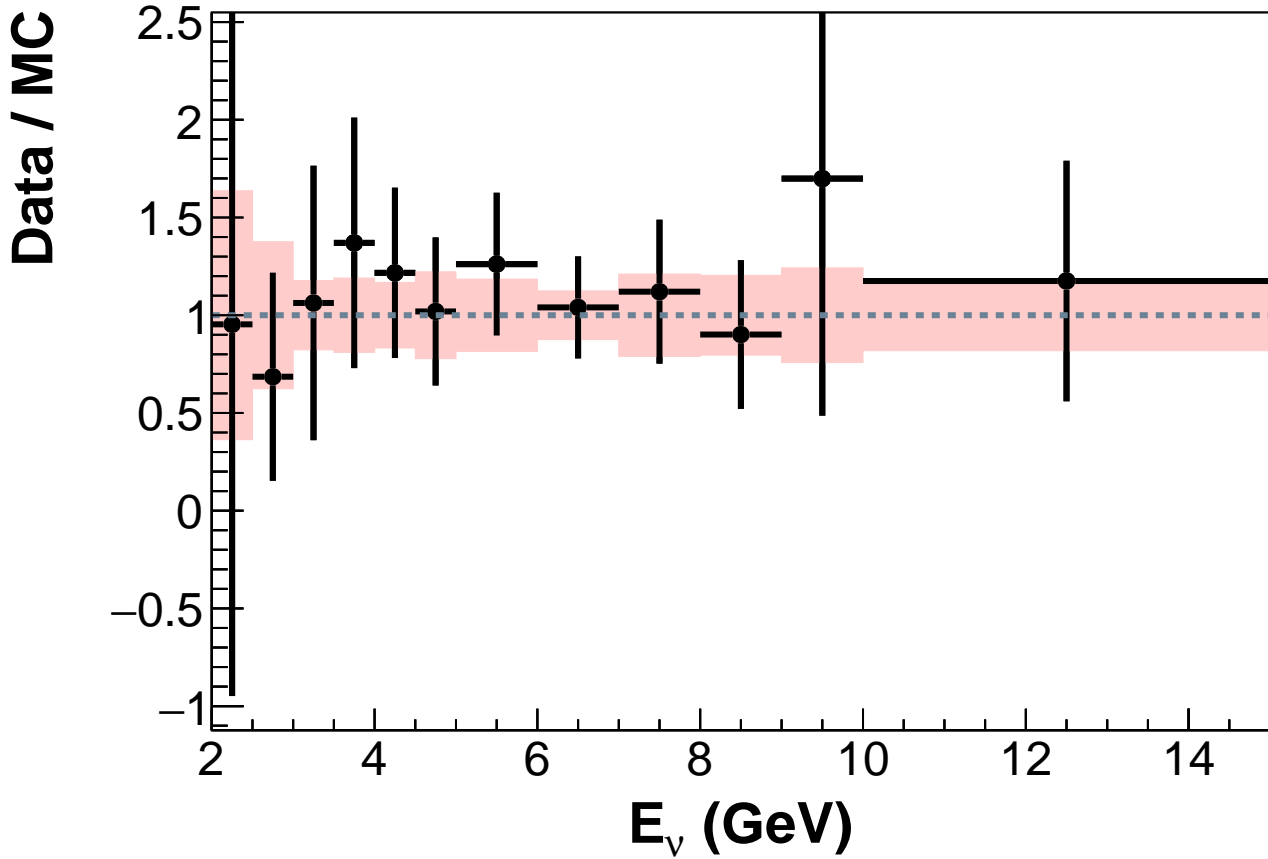


BKGsub vs. MC signal

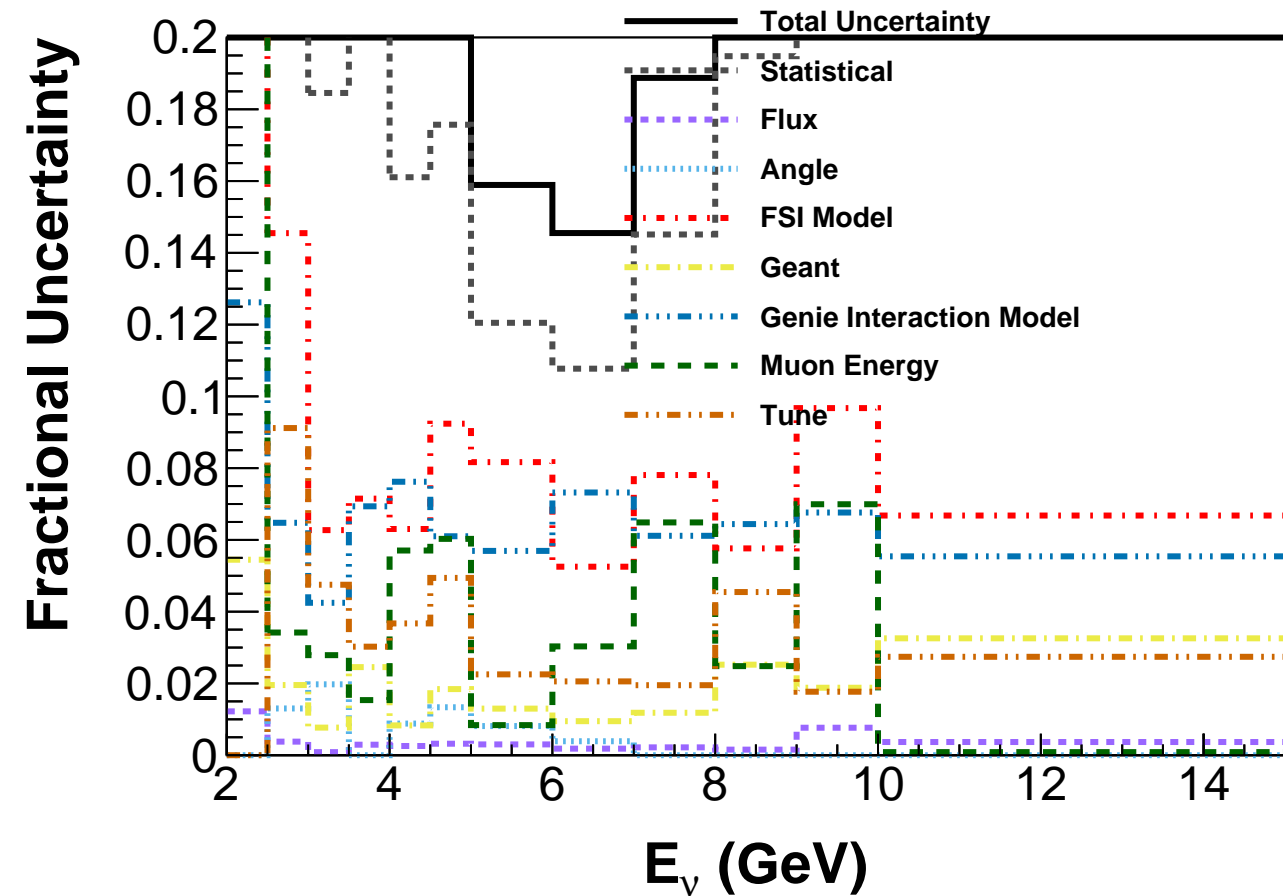
Counts per unit



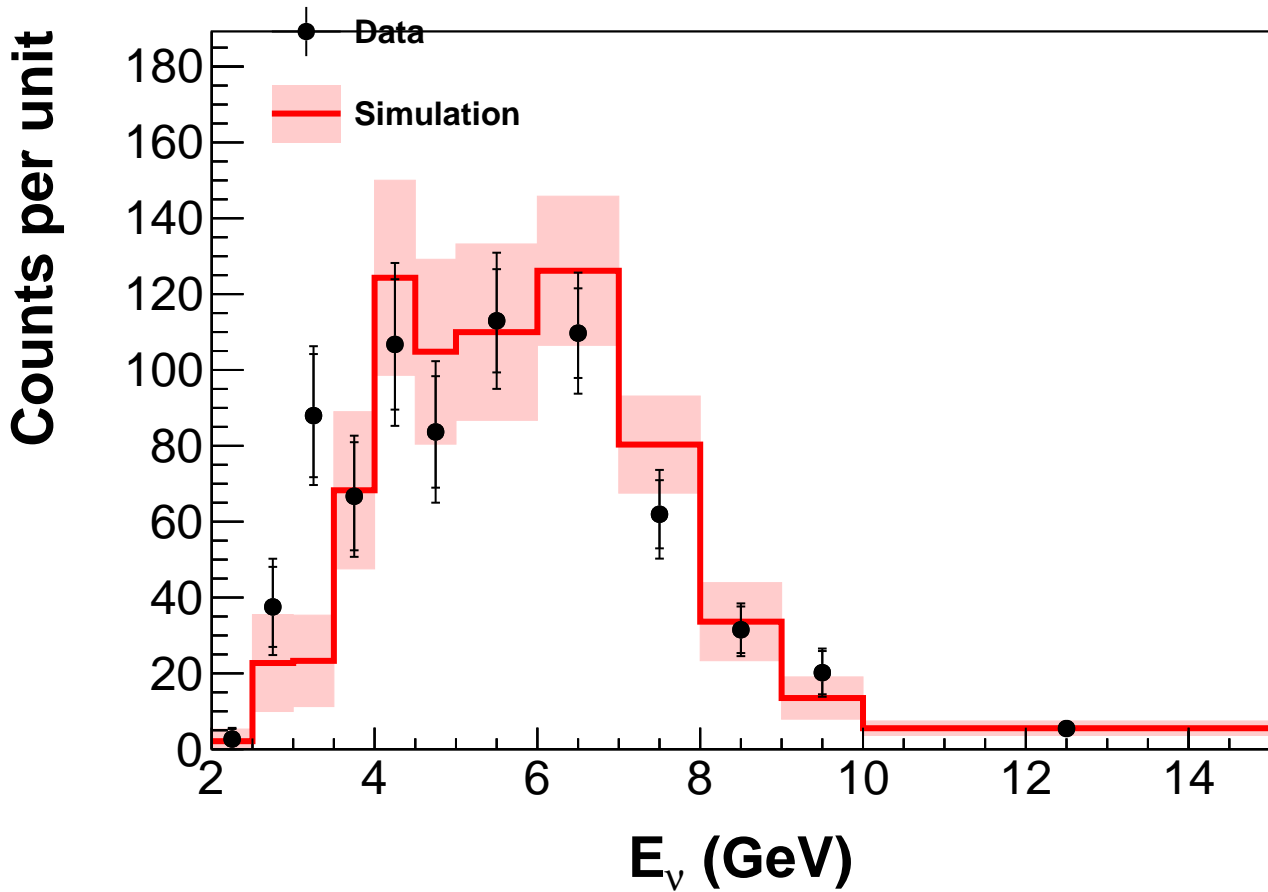
BKGsub vs. MC signal



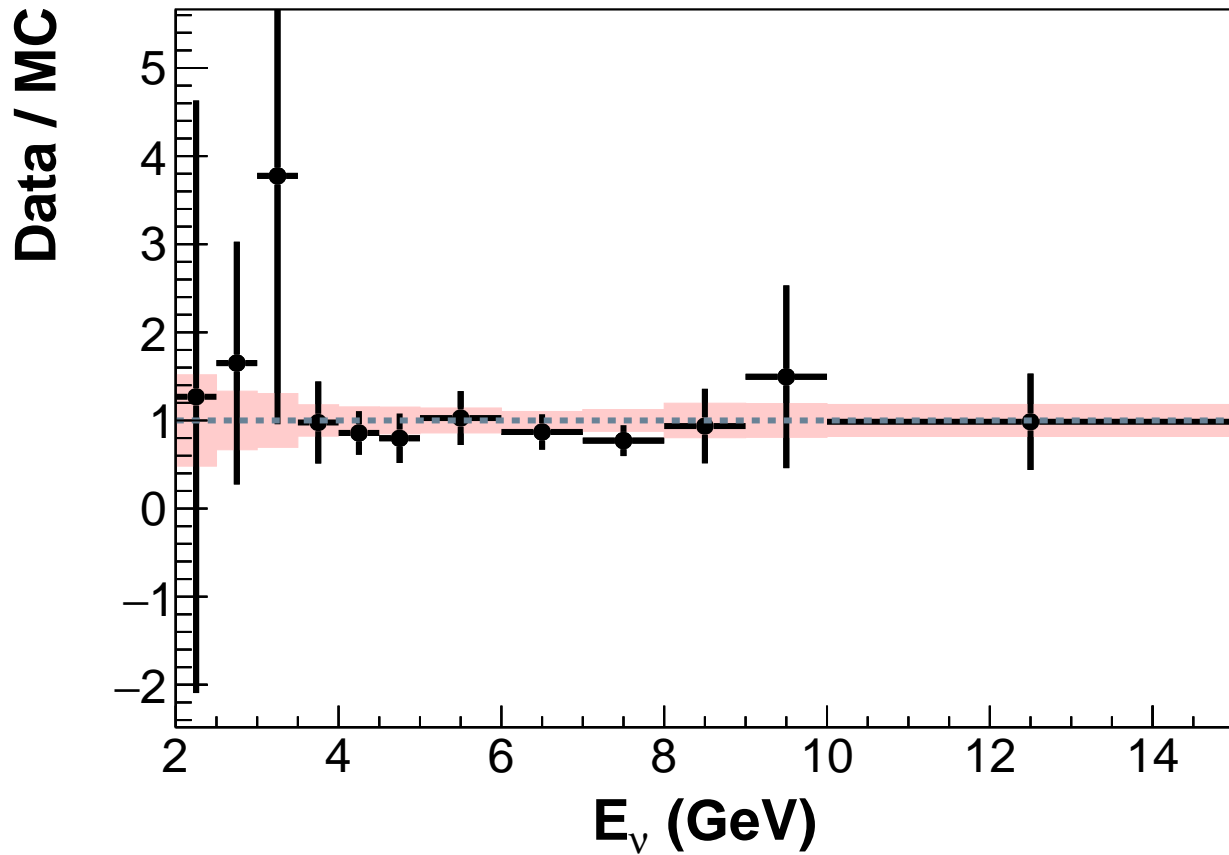
BKGsub Systematics



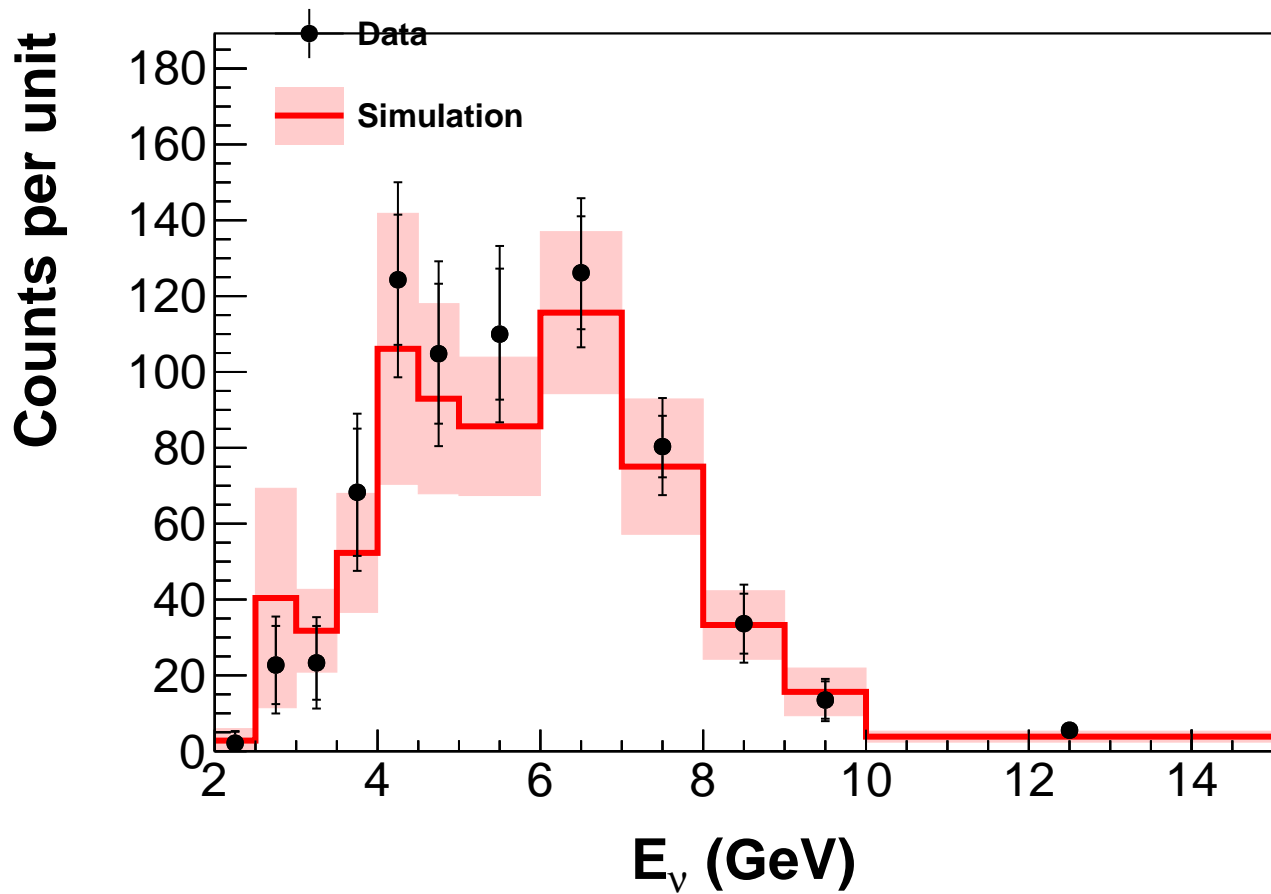
Data Before and After Unsmearing



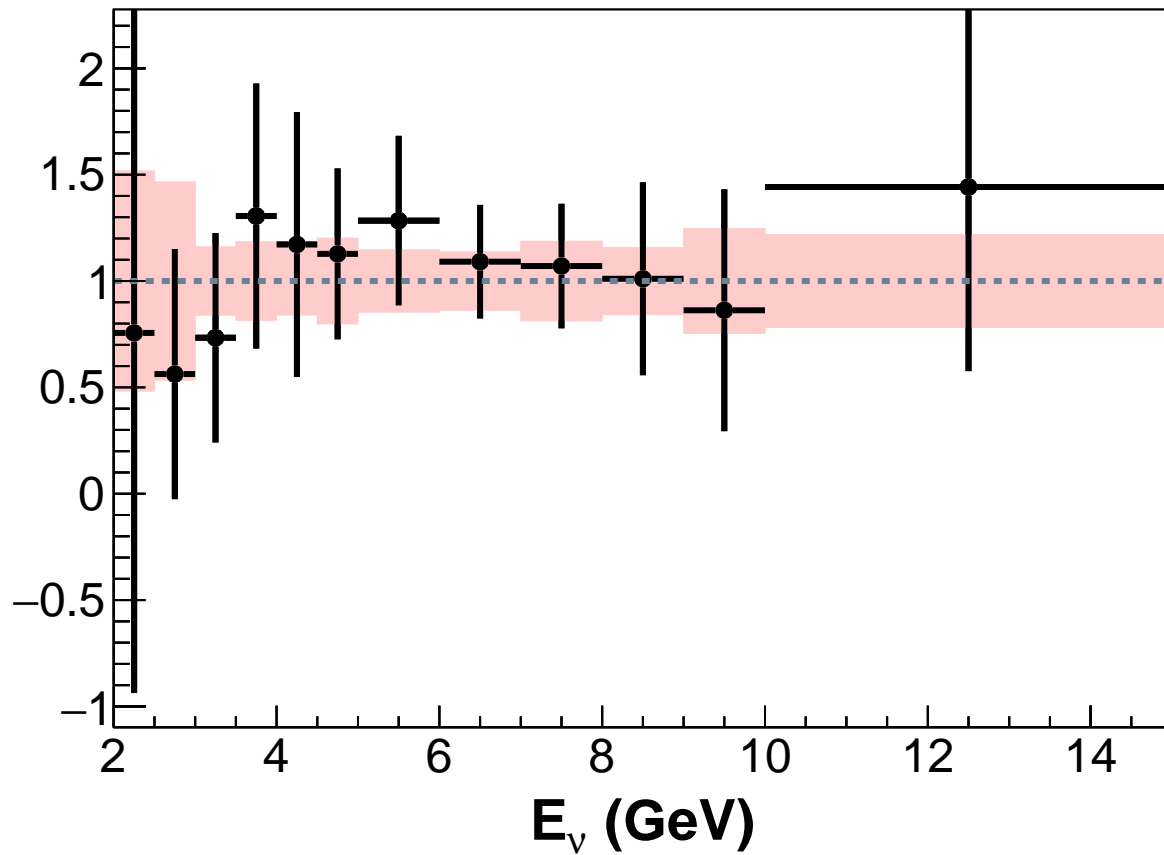
Data Before and After Unsmearing



Unsmeared Data Compared to Selected MC

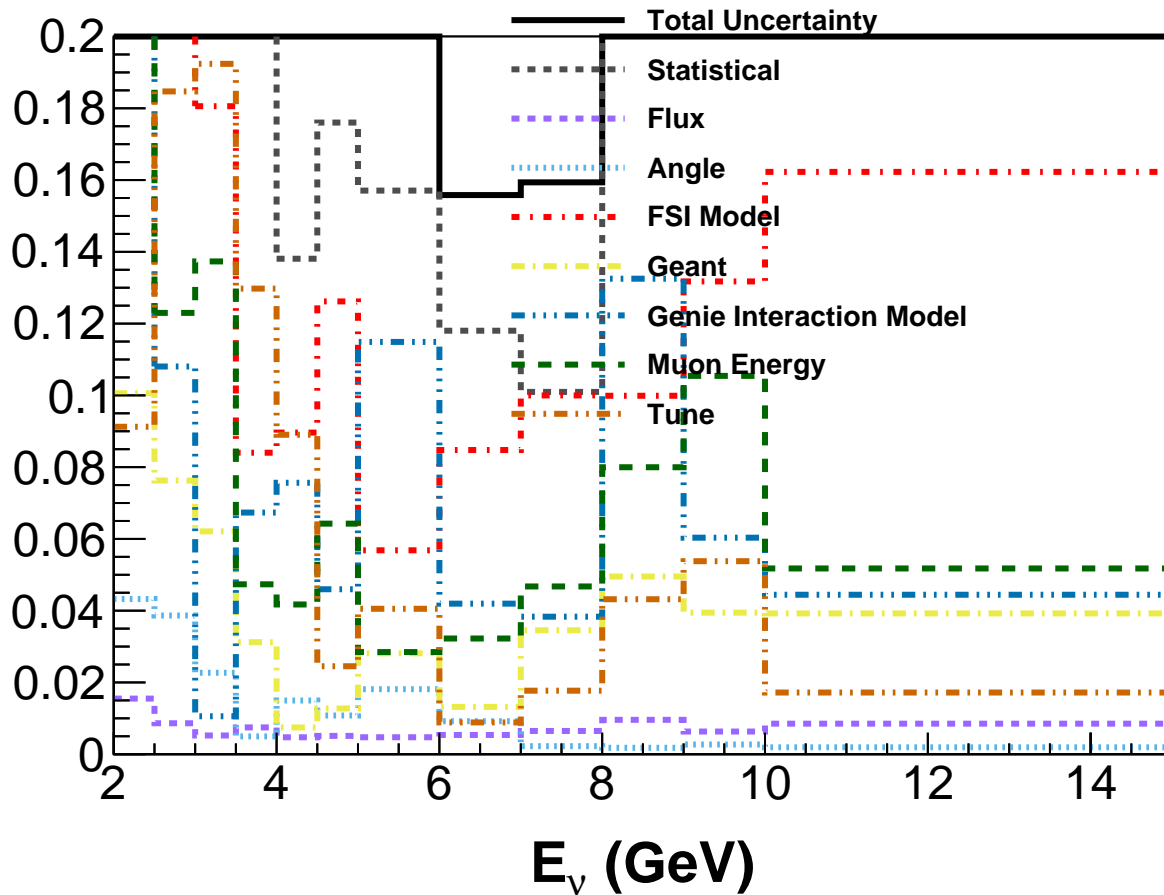


Unsmeared Data Compared to Selected MC



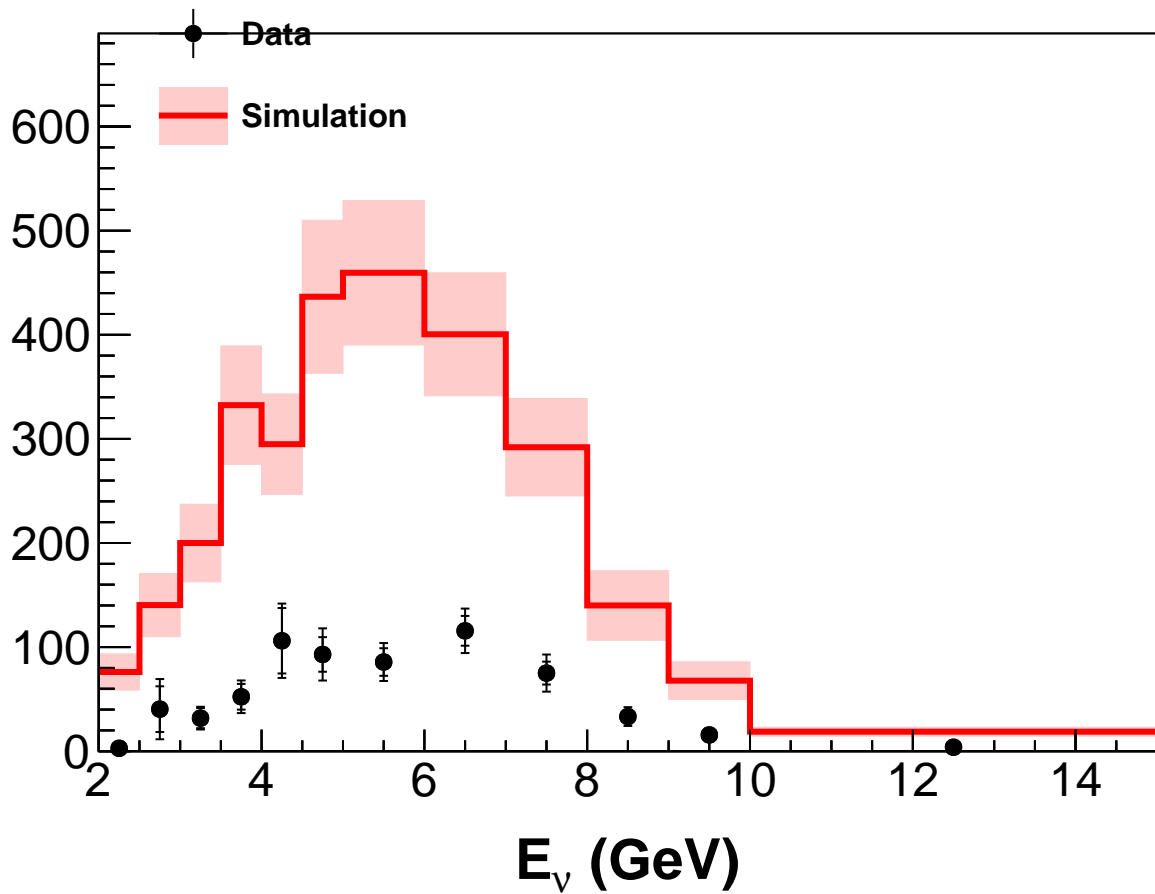
Unsmeared Data Systematics

Fractional Uncertainty

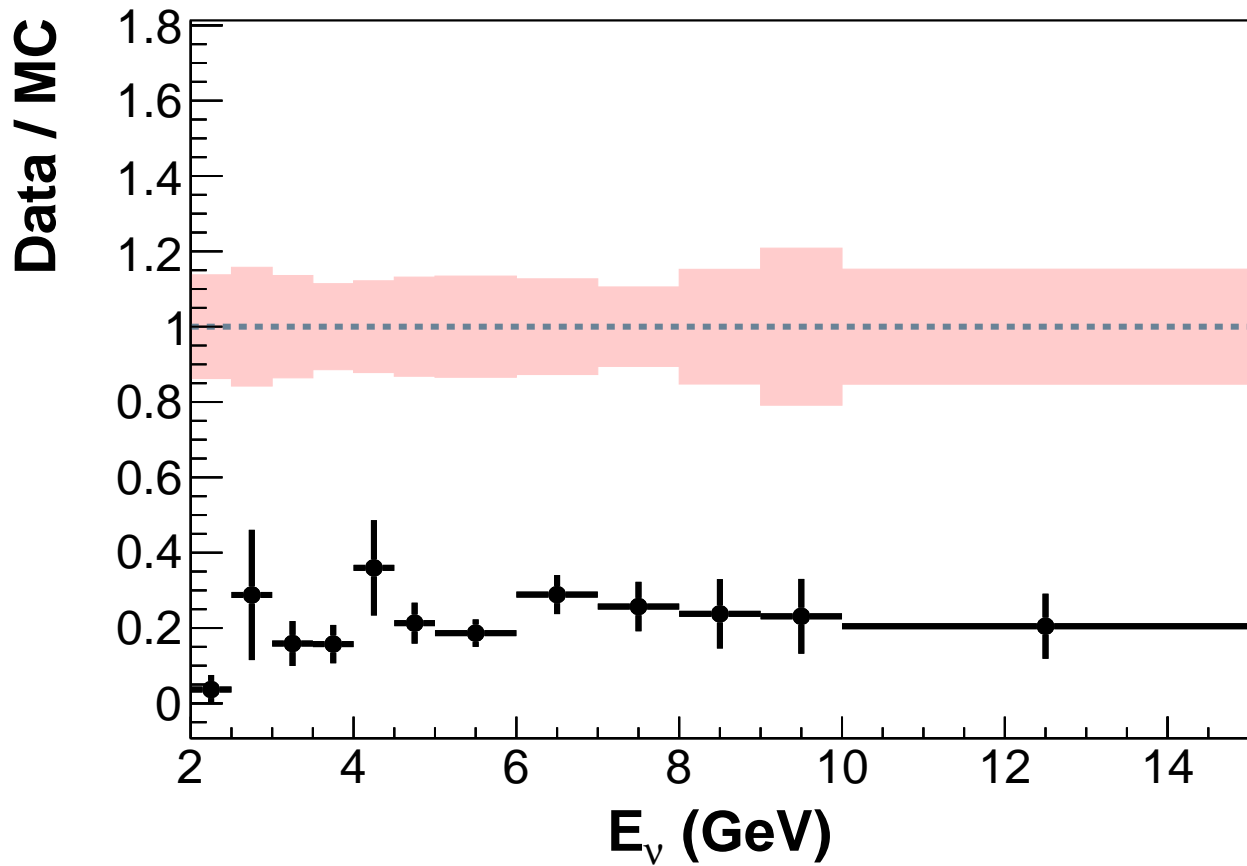


efficiency: selected and true

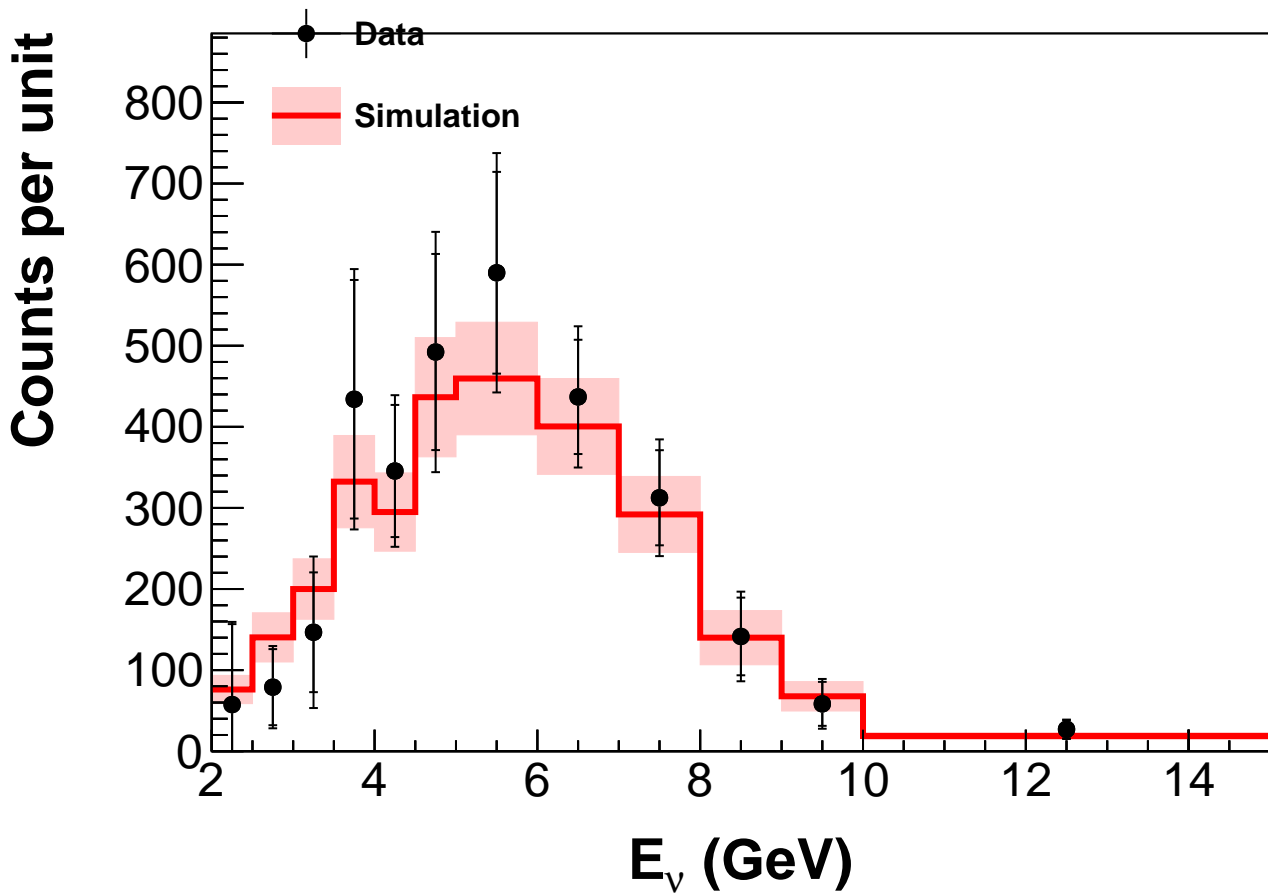
Counts per unit



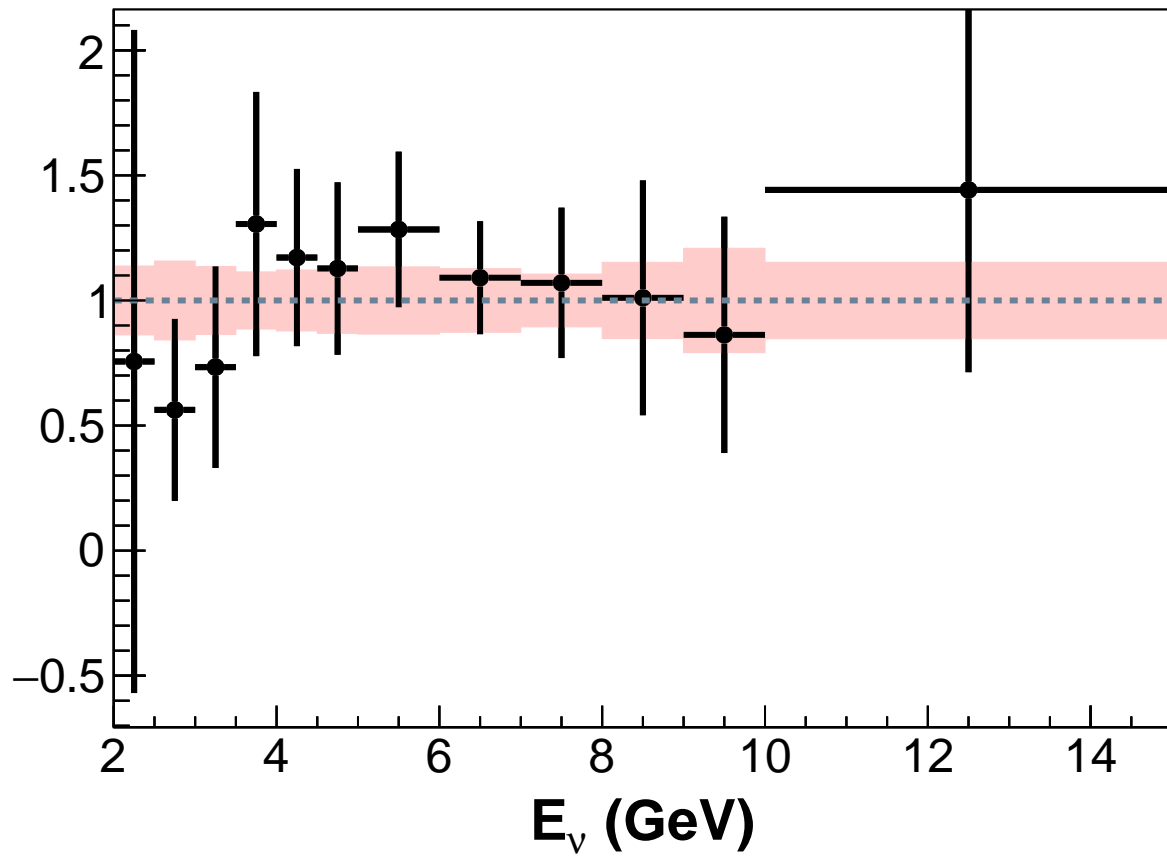
efficiency: selected and true



effcorr data vs truth

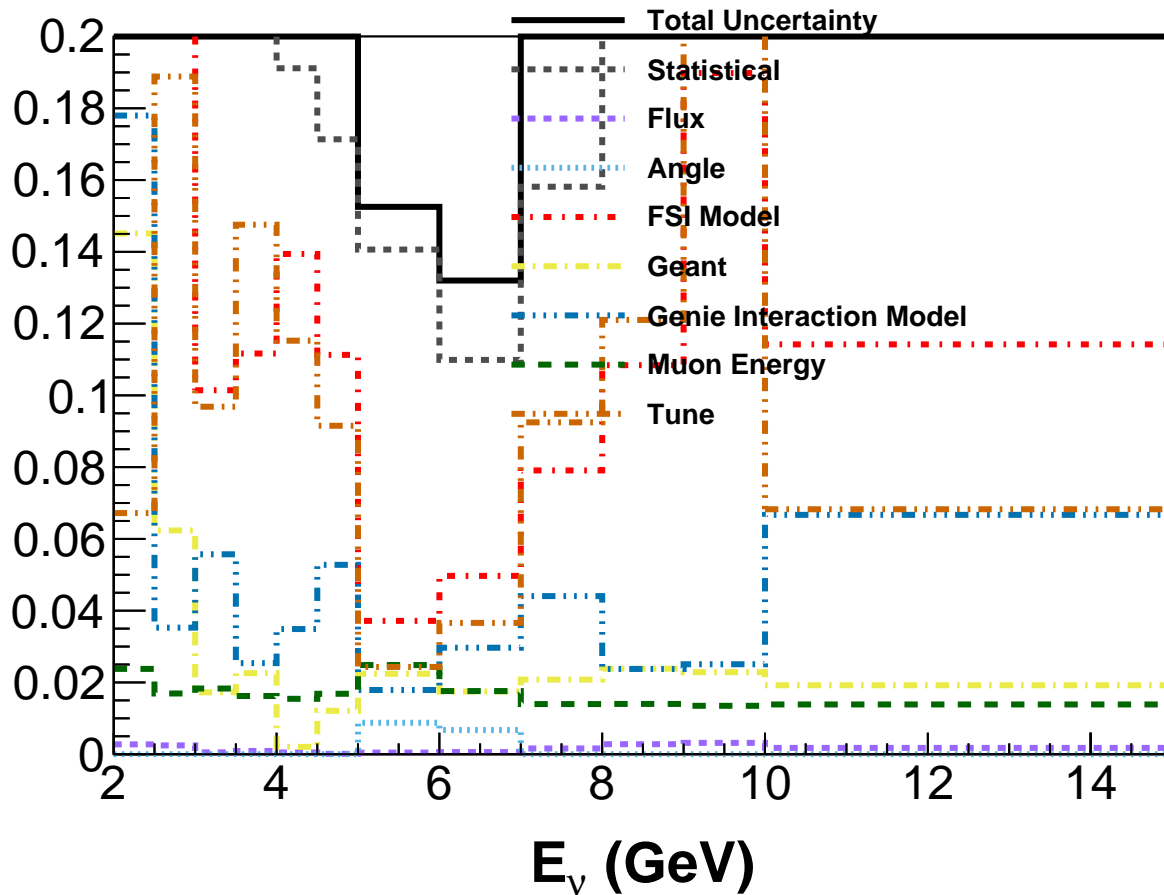


effcorr data vs truth

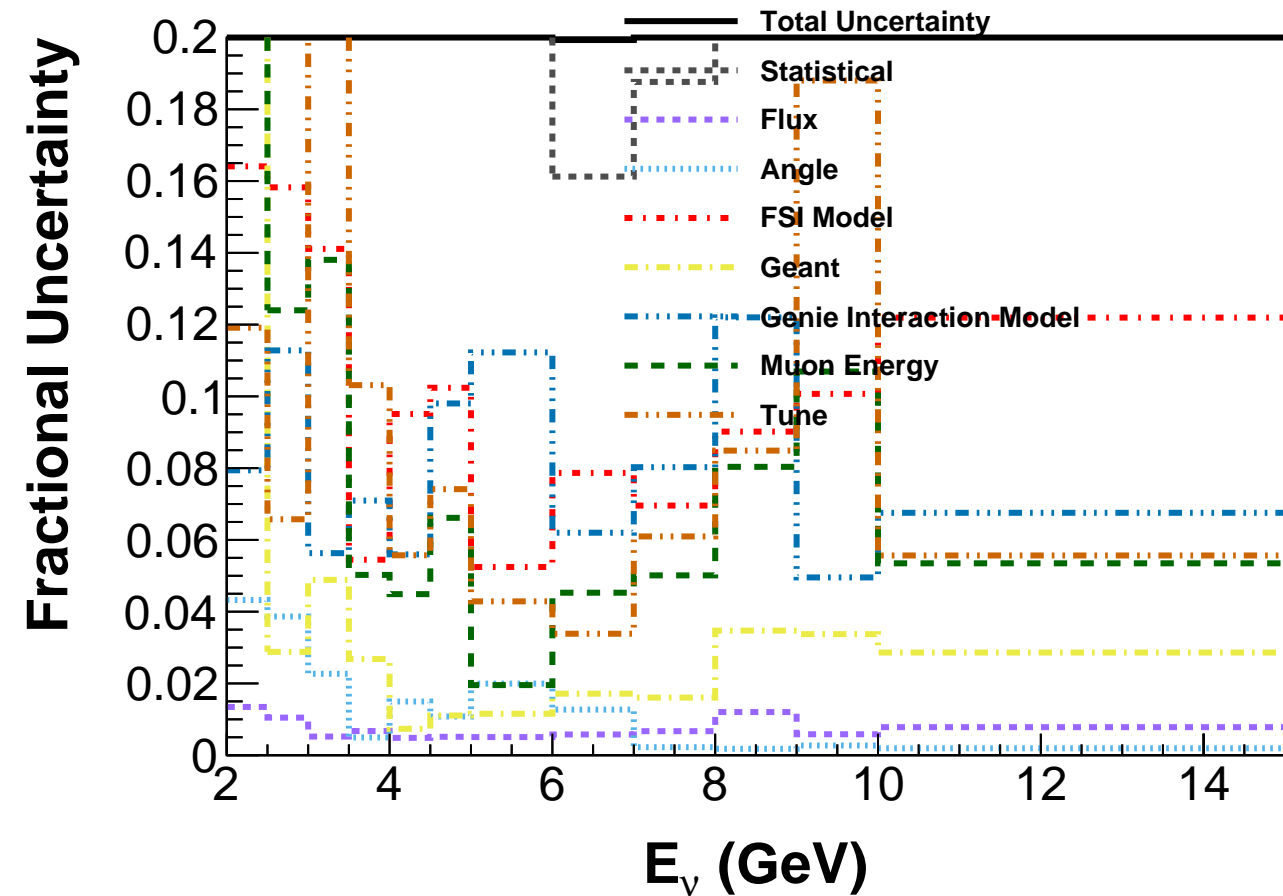


Efficiency Factor Systematics

Fractional Uncertainty

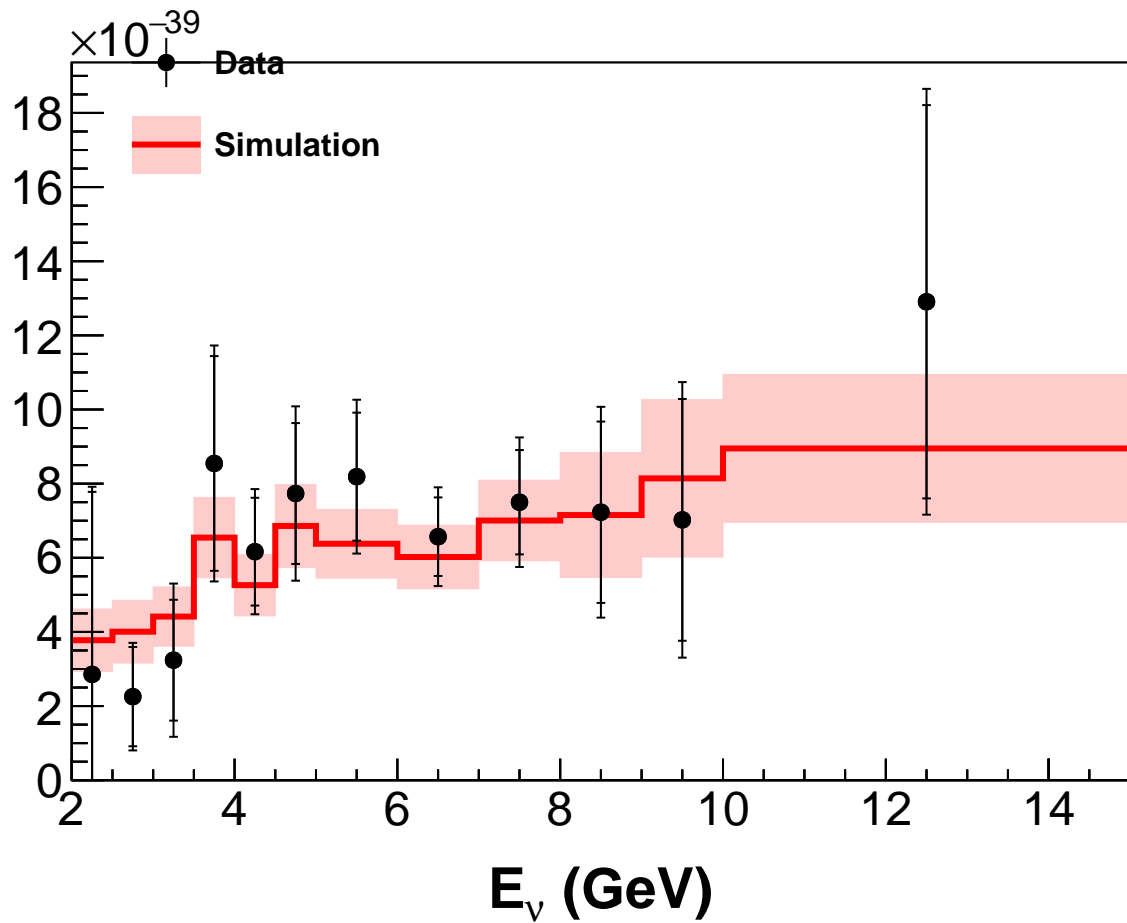


Efficiency Corrected Data Systematics



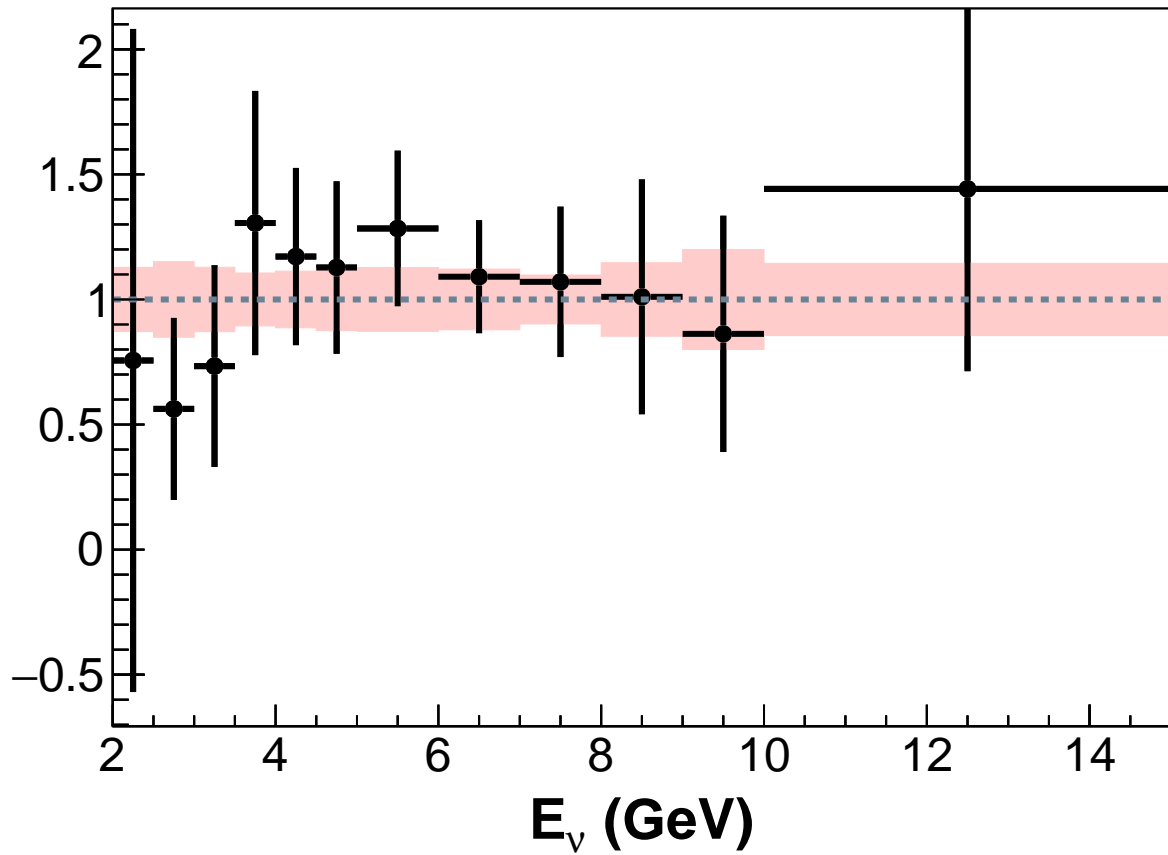
Counts per unit

sigma



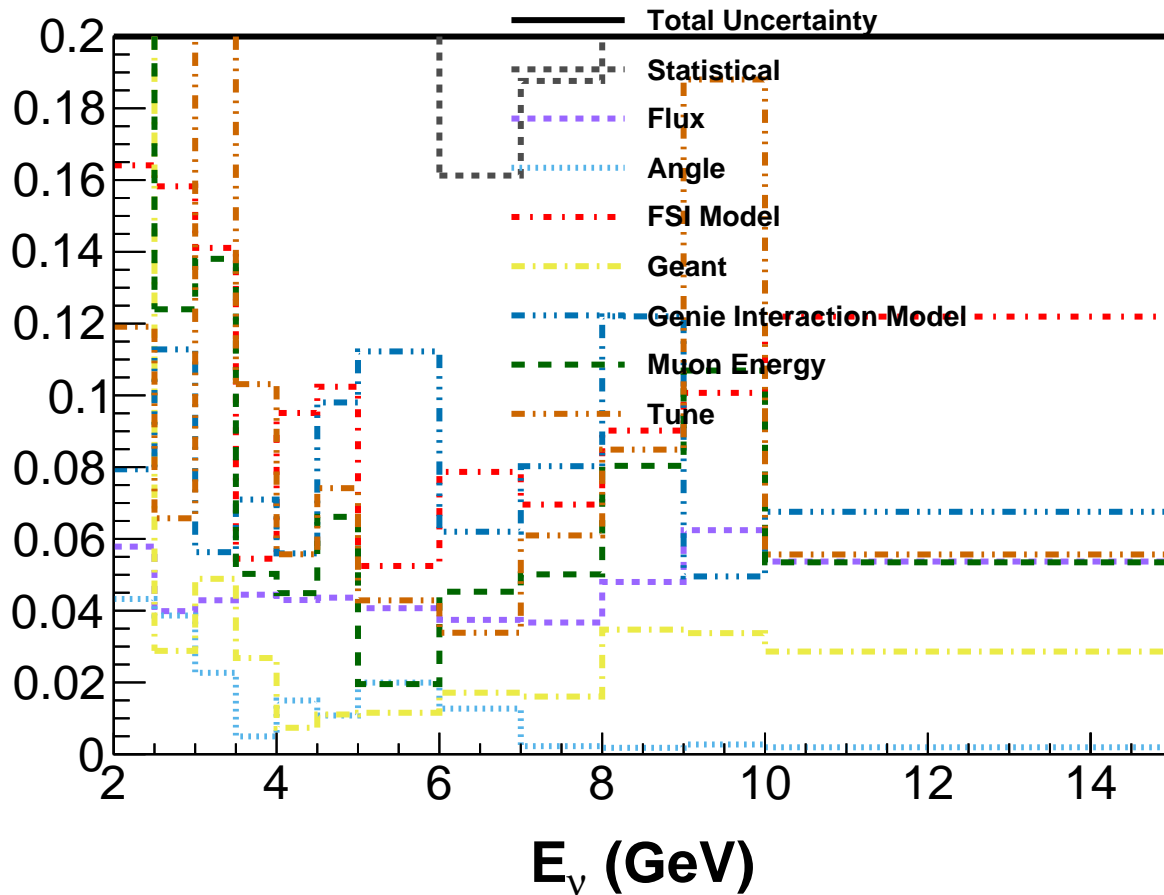
sigma

Data / MC

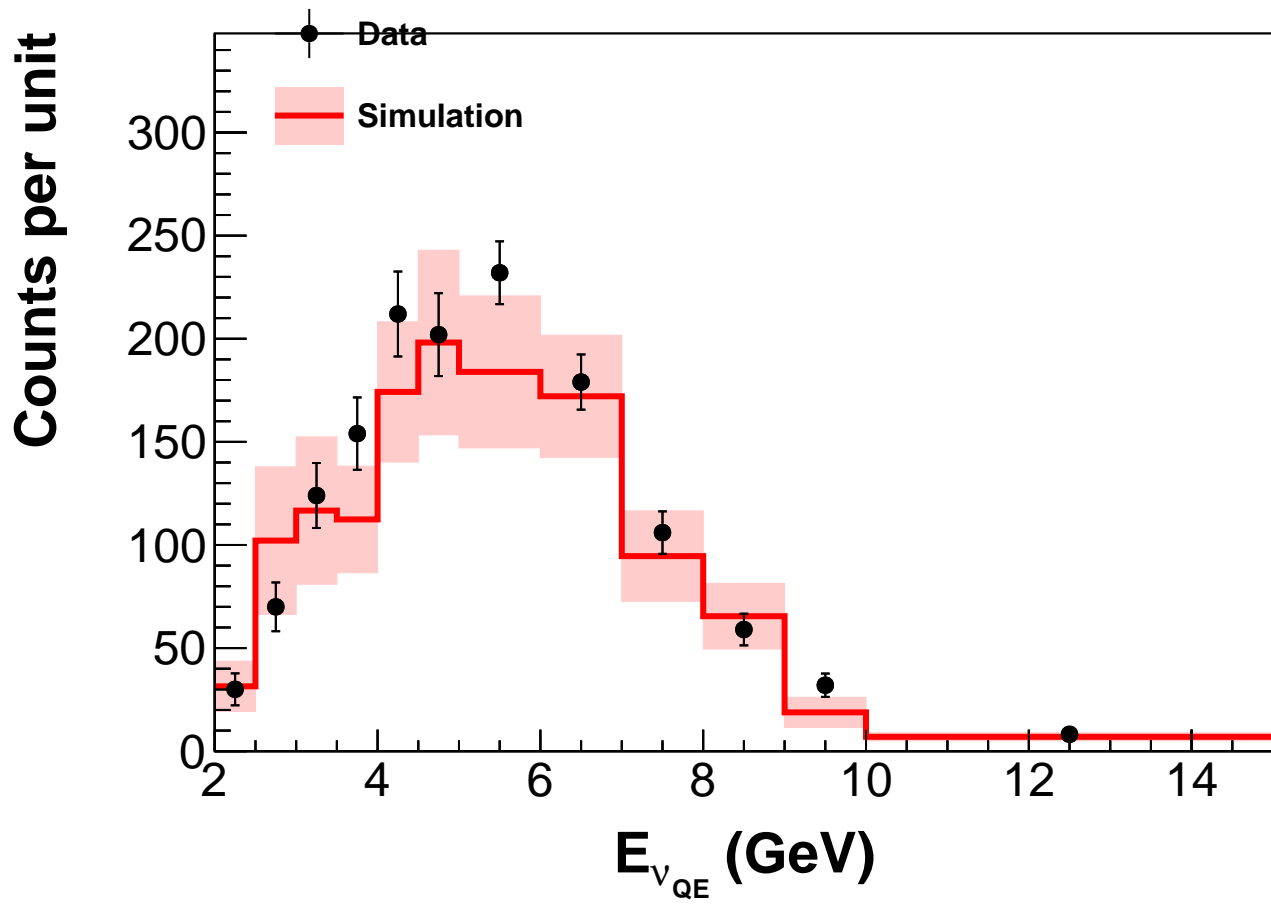


Cross Section Systematics

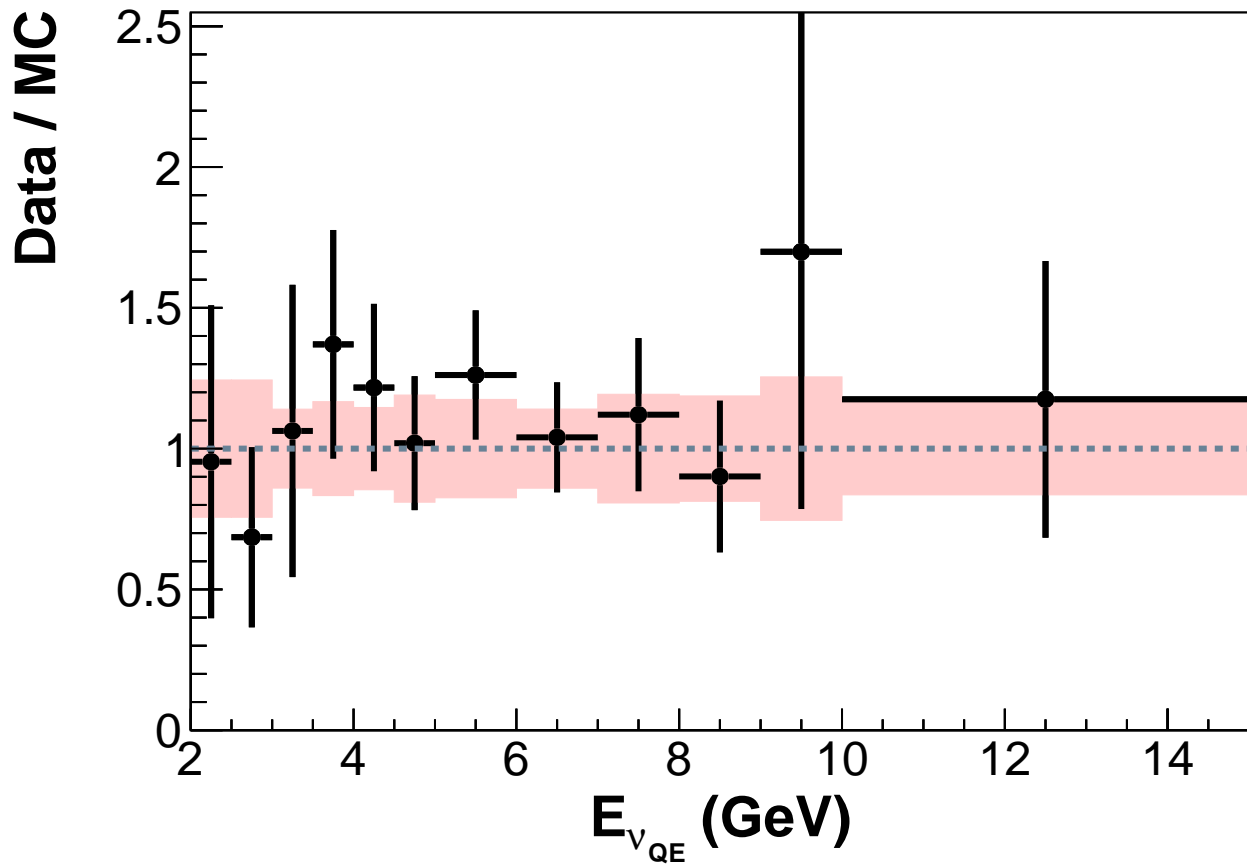
Fractional Uncertainty



DATA_vs_MC

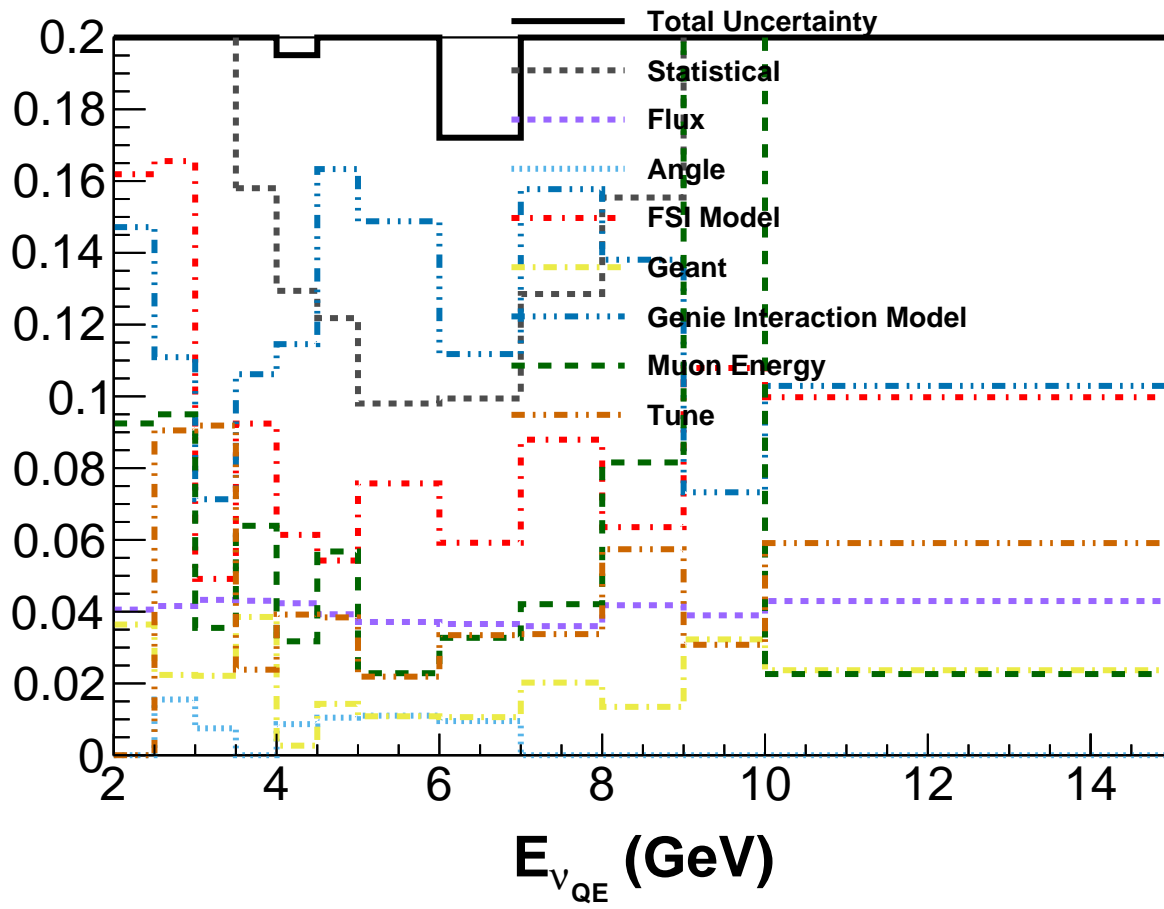


DATA_vs_MC



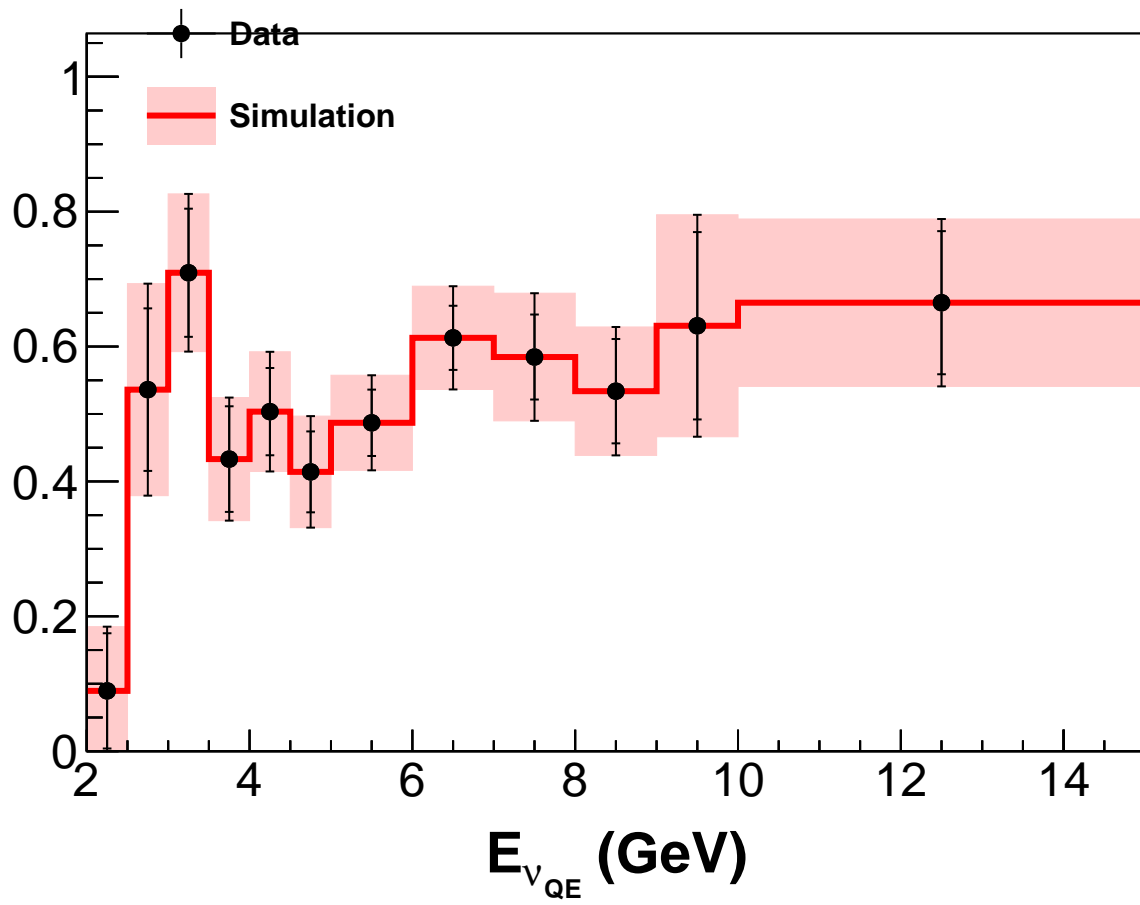
Raw MC Systematics

Fractional Uncertainty

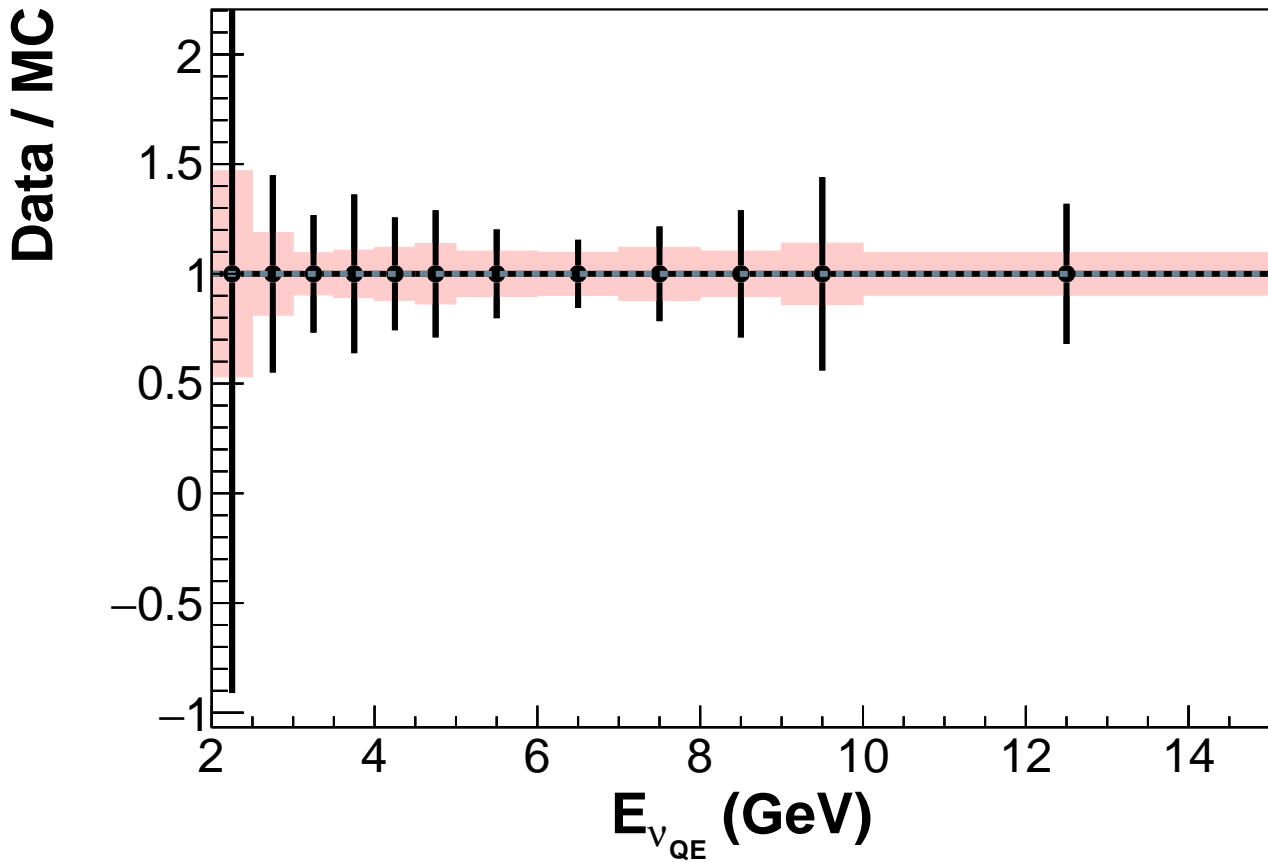


Signal Fraction

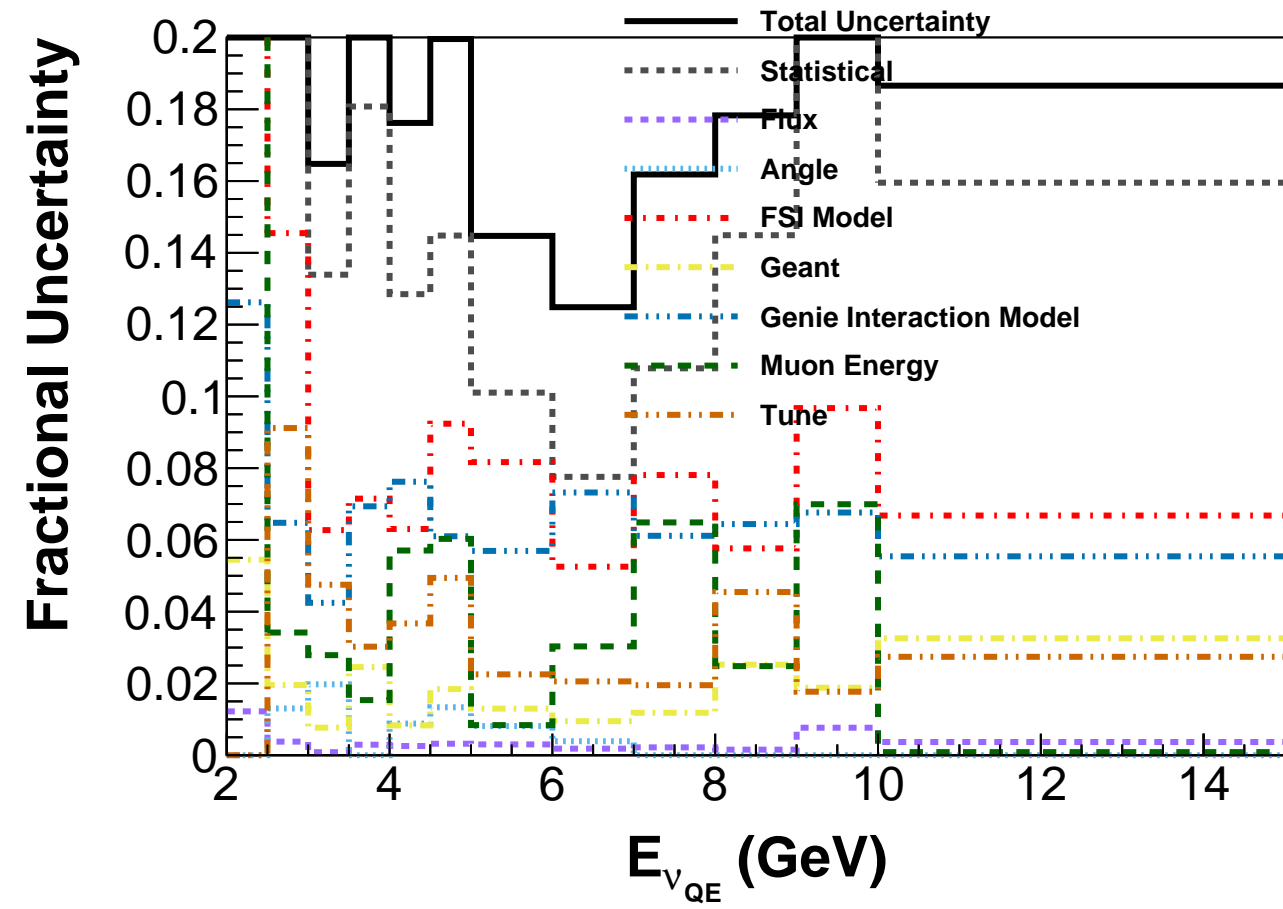
Counts per unit



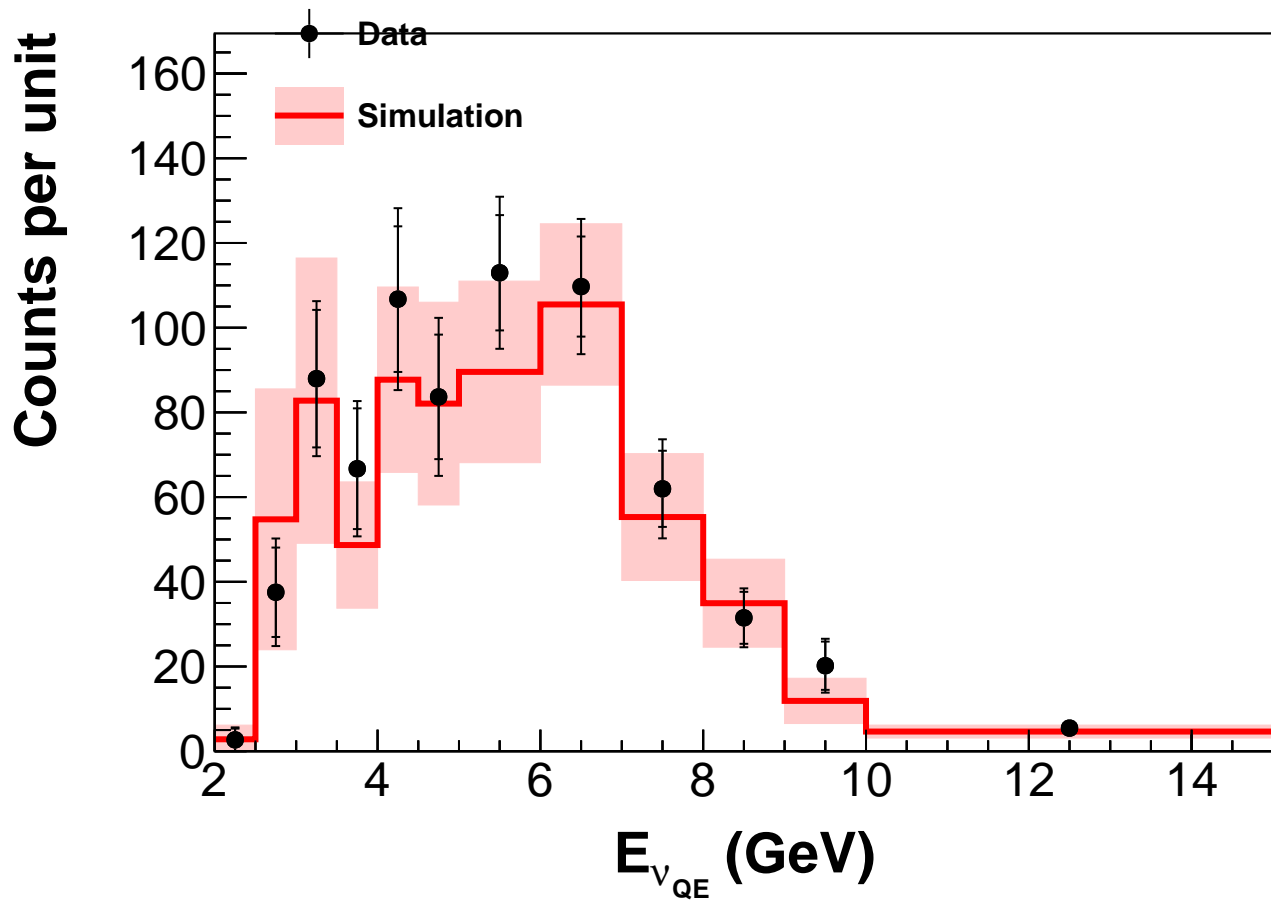
Signal Fraction



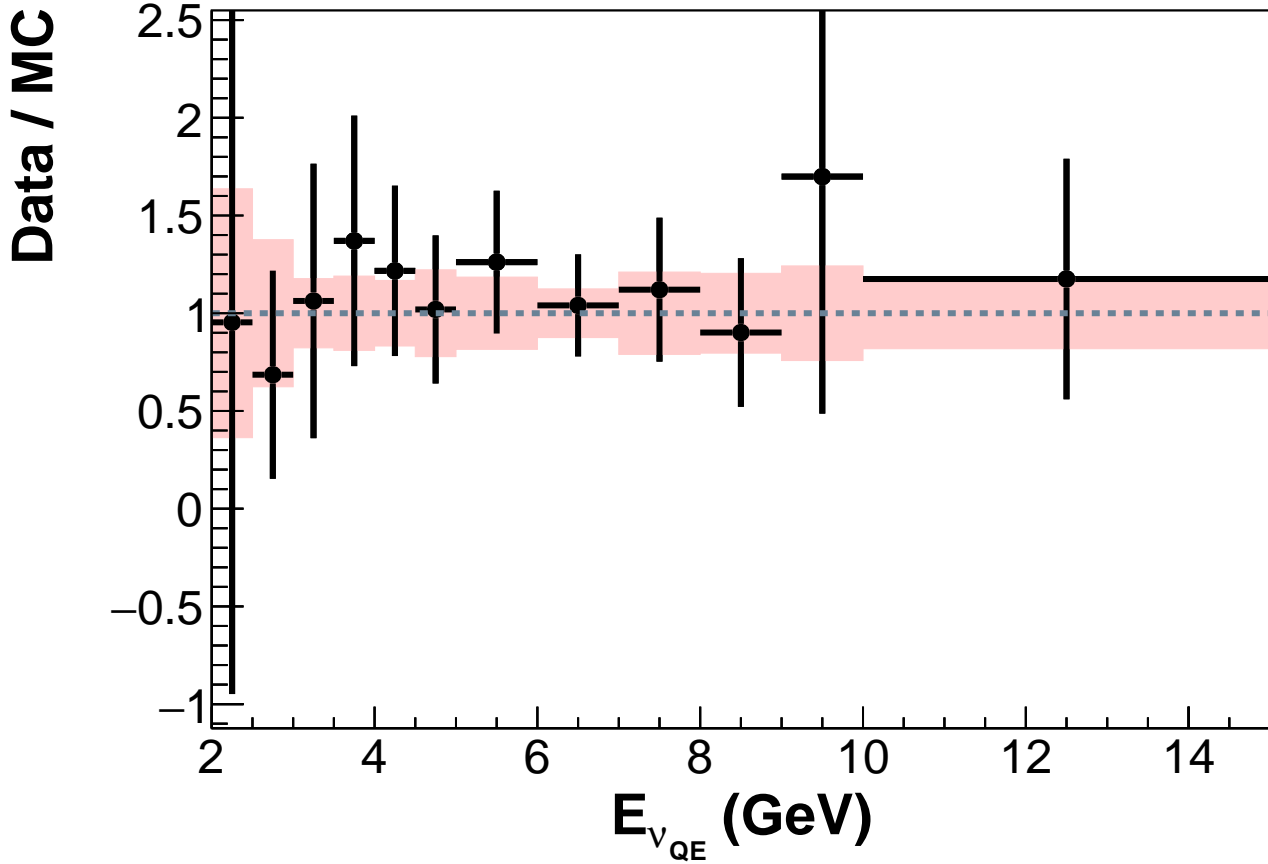
Signal Fraction Systematics



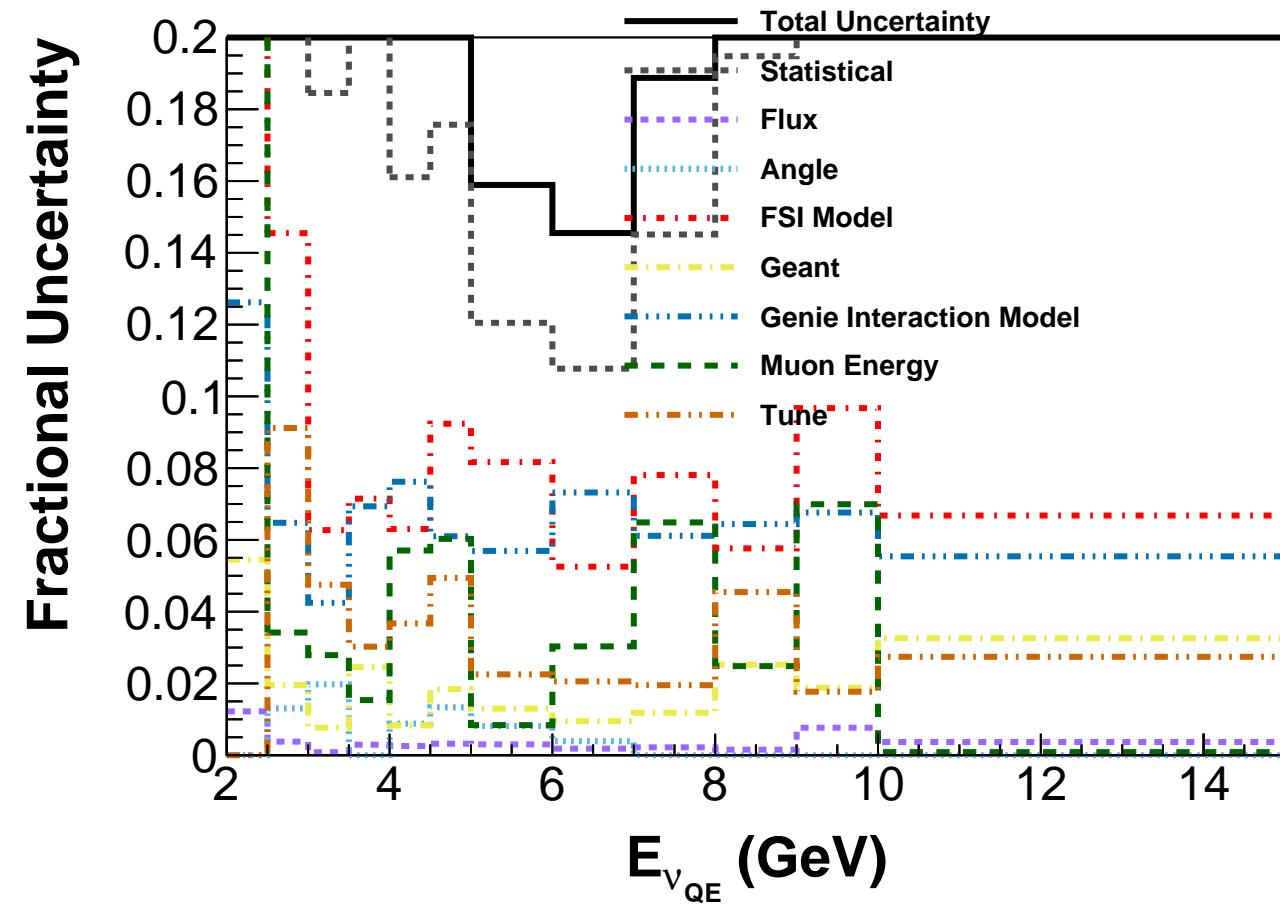
BKGsub vs. MC signal



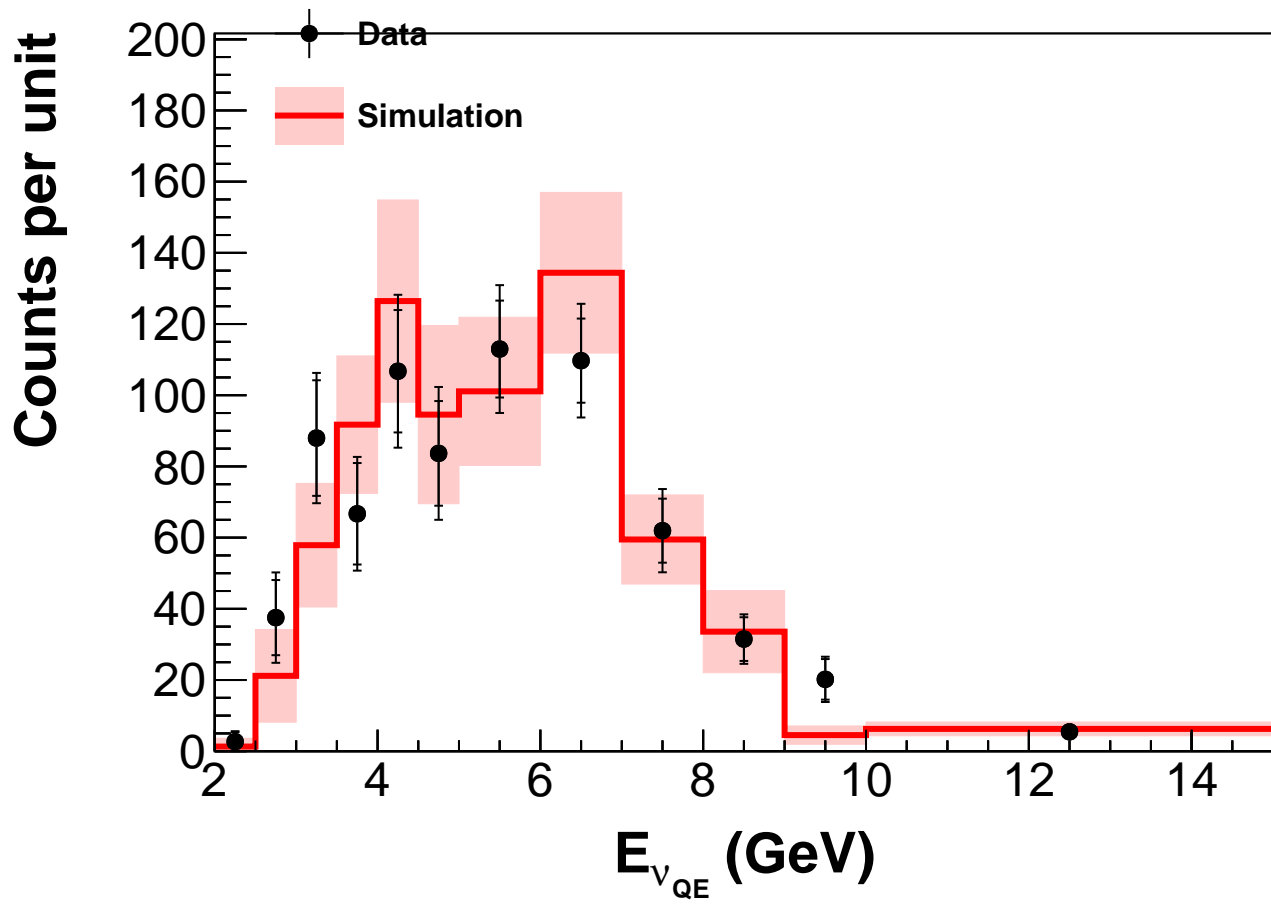
BKGsub vs. MC signal



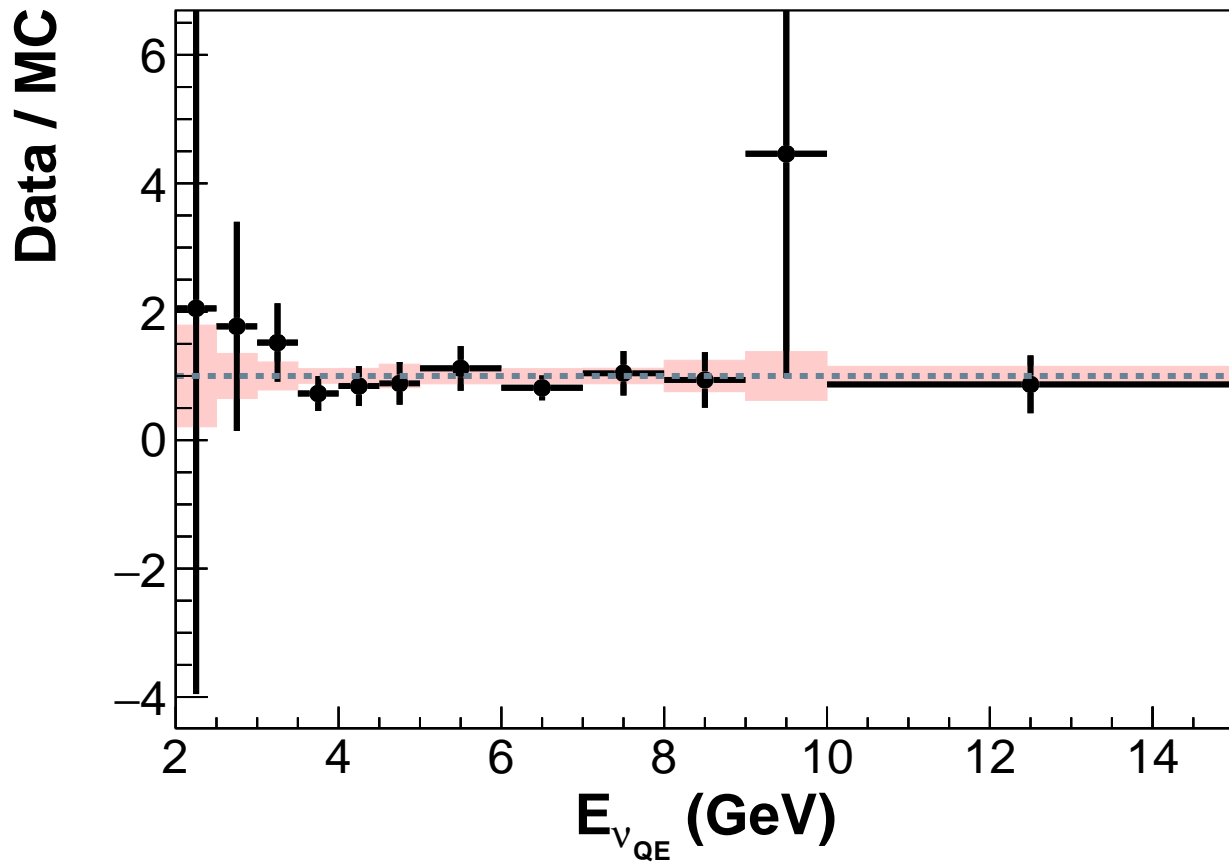
BKGsub Systematics



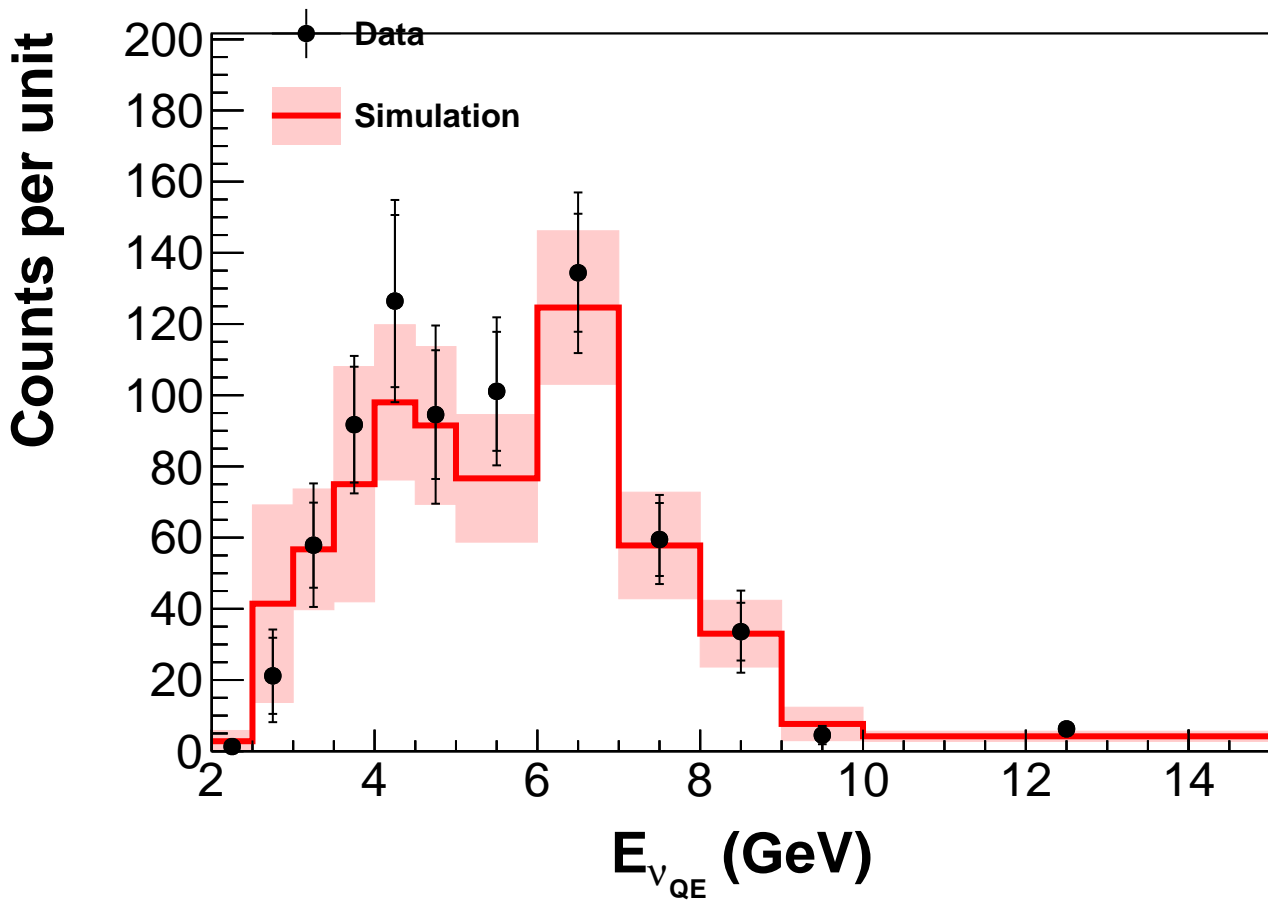
Data Before and After Unsmearing



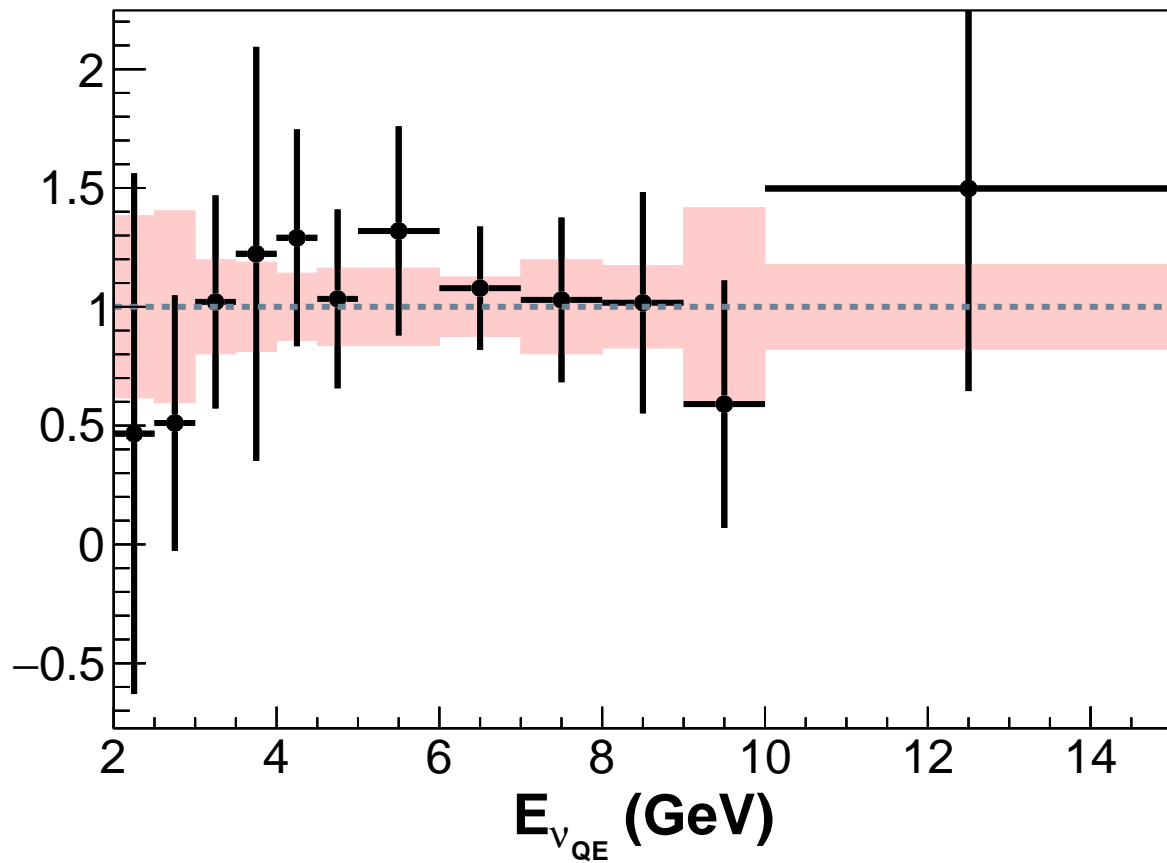
Data Before and After Unsmearing



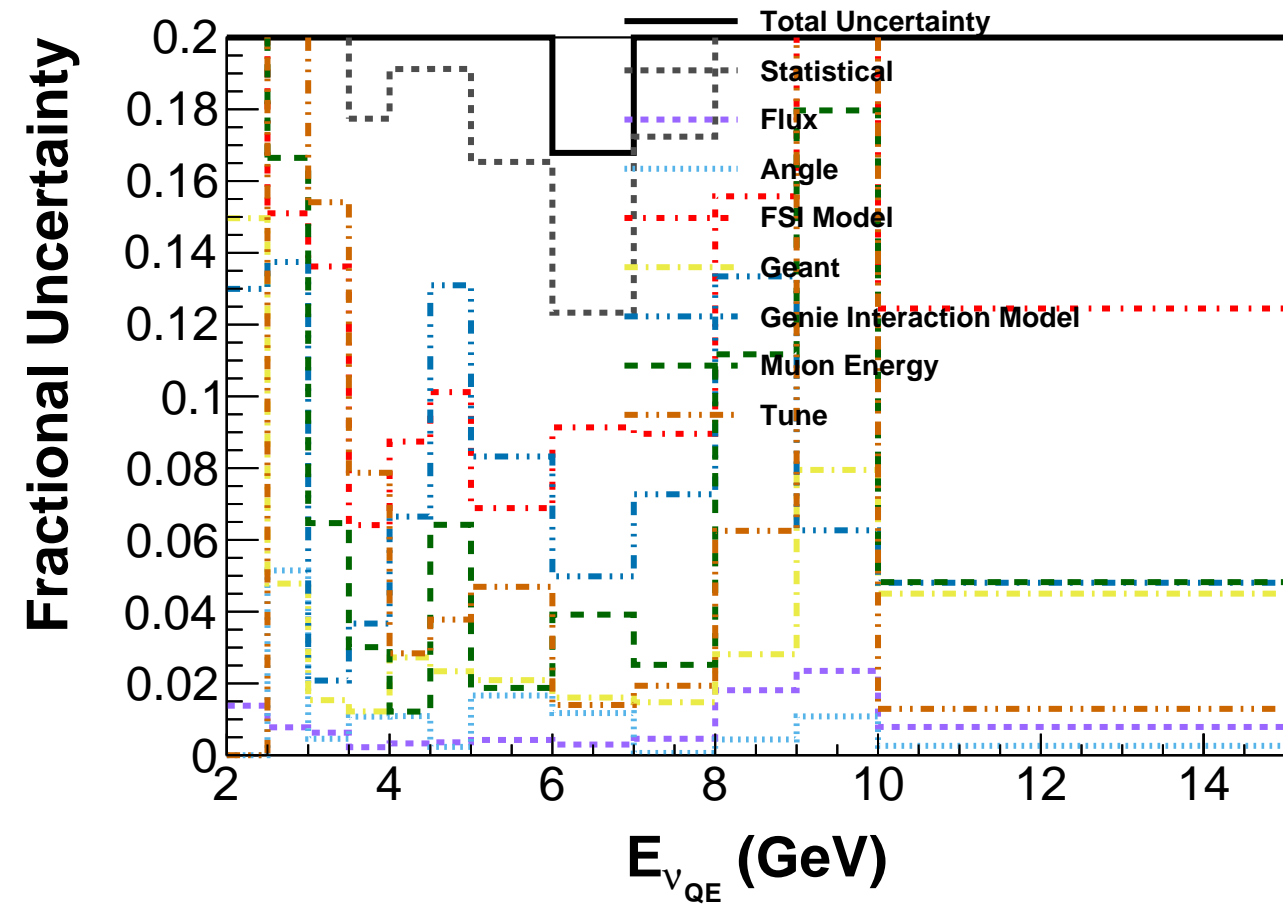
Unsmearred Data Compared to Selected MC



Unsmeared Data Compared to Selected MC

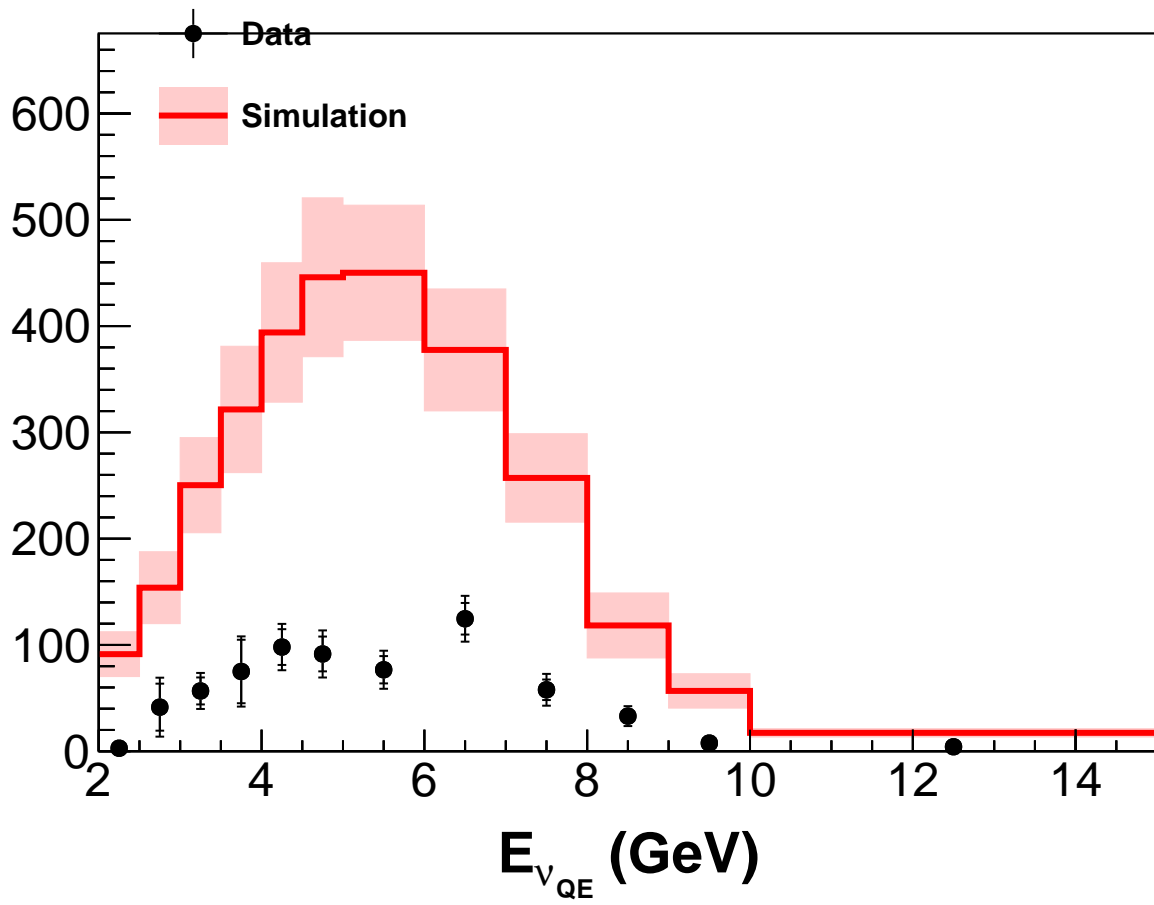


Unsmeared Data Systematics

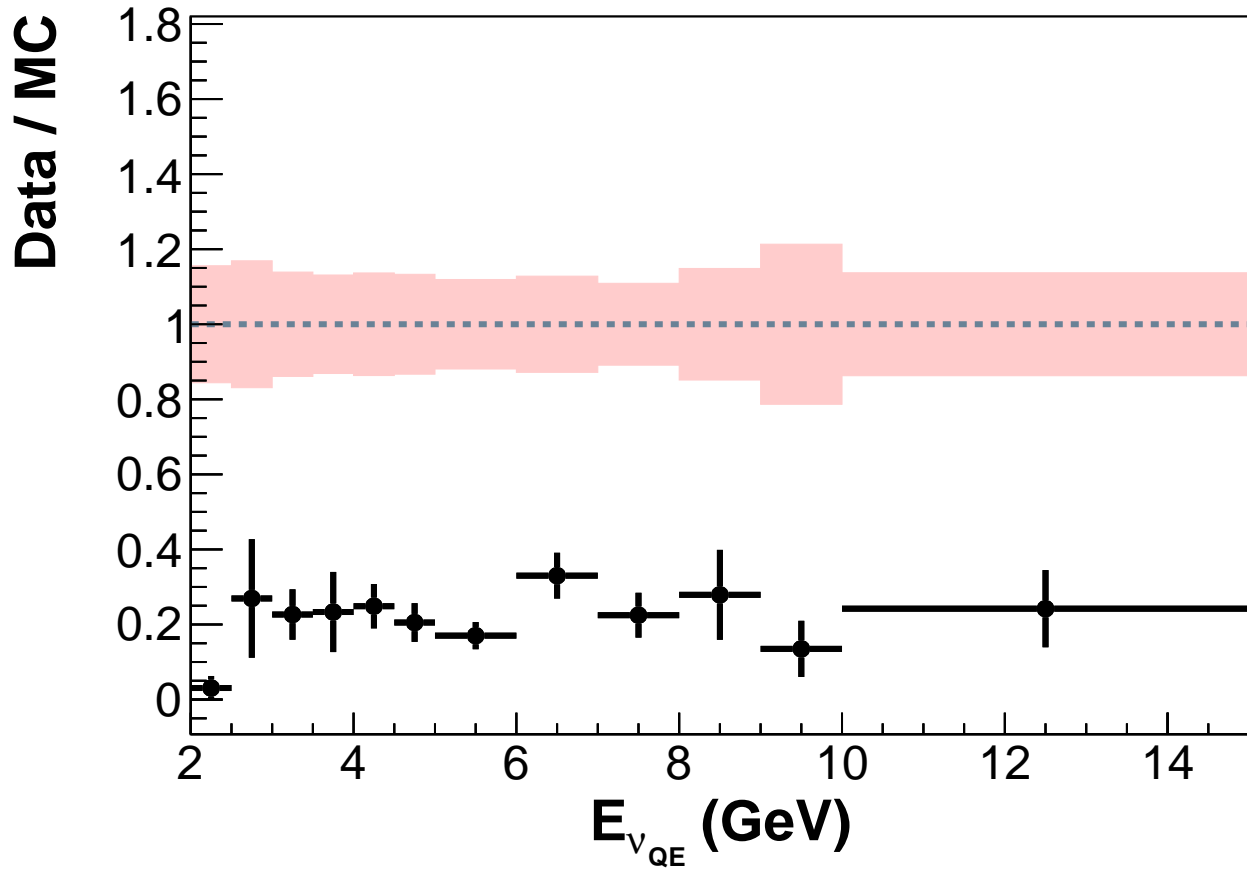


efficiency: selected and true

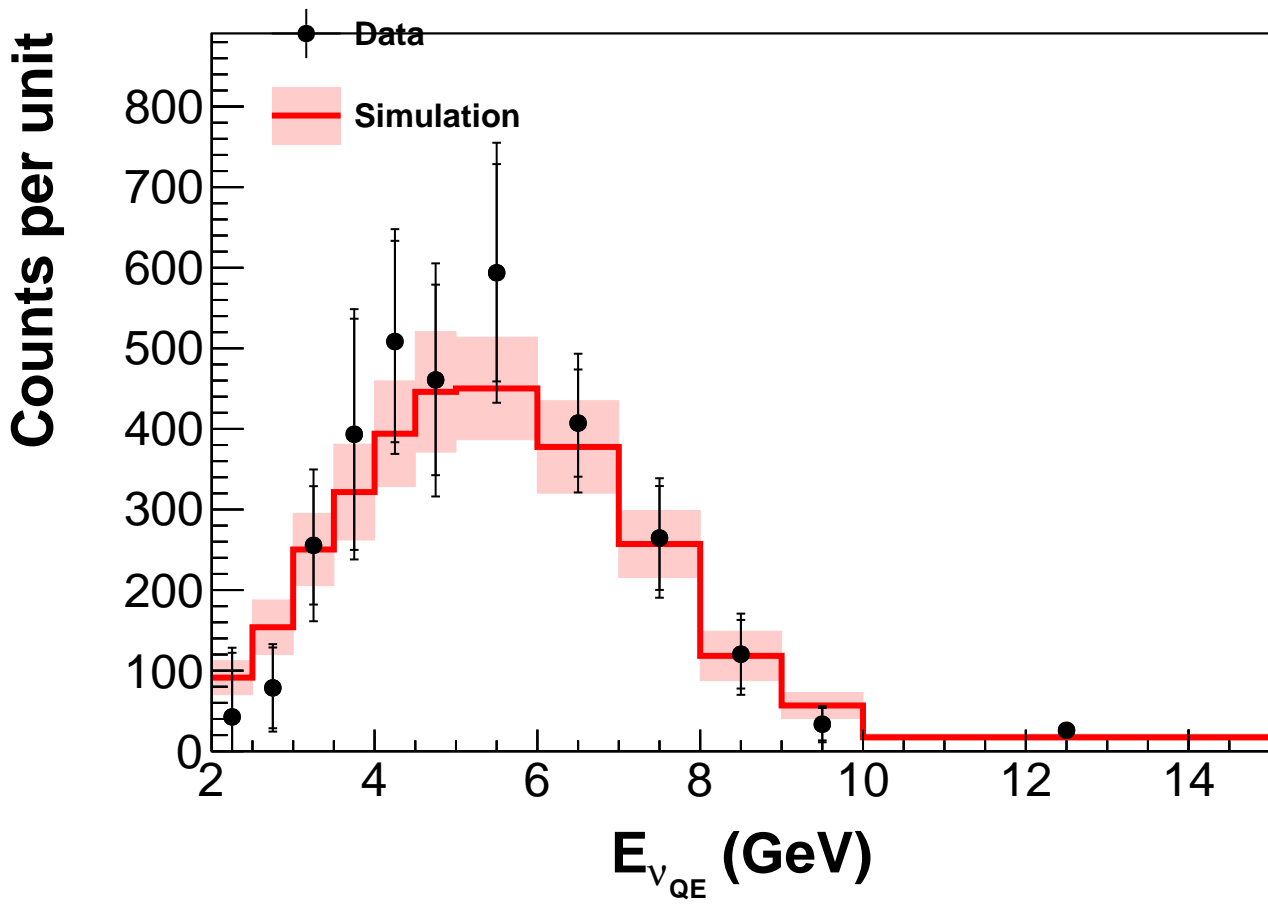
Counts per unit



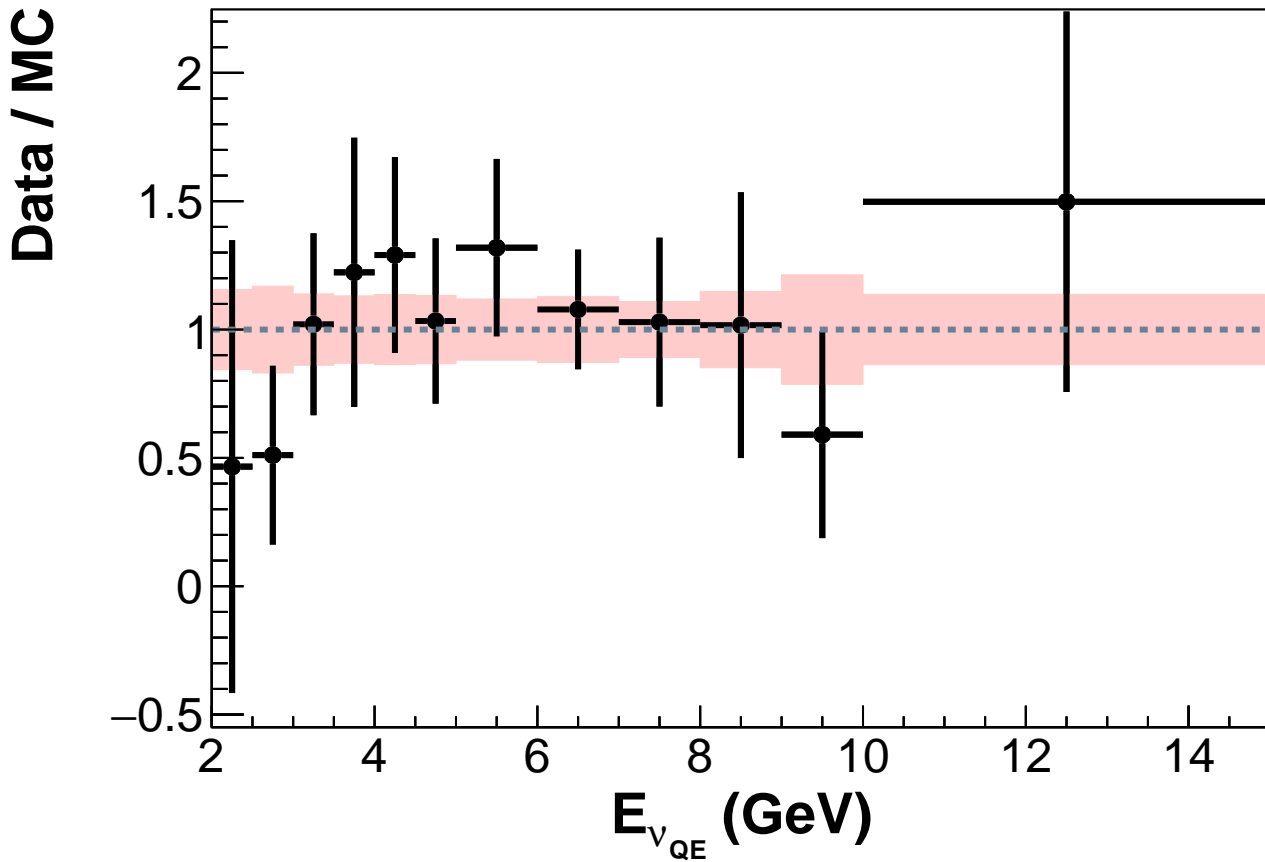
efficiency: selected and true



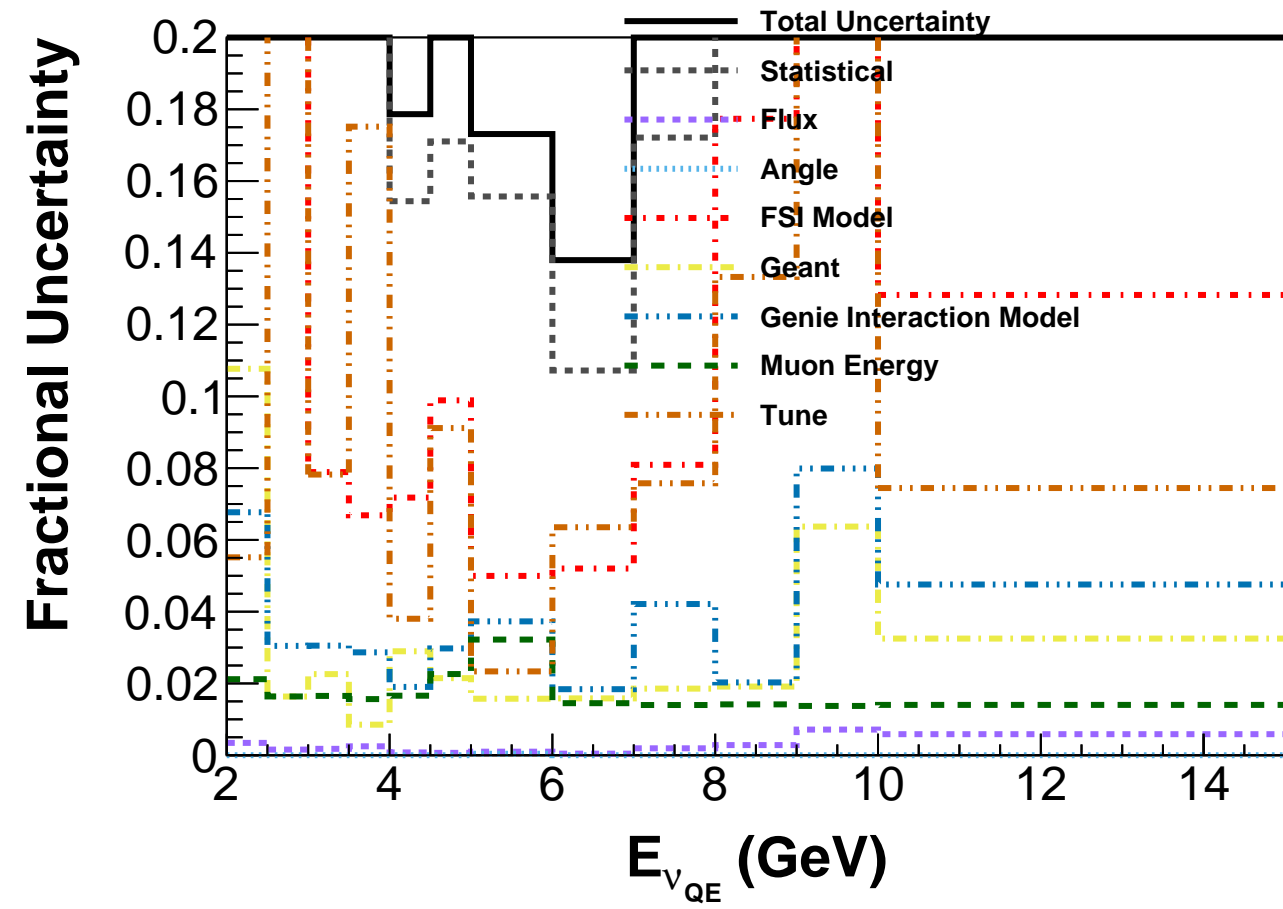
effcorr data vs truth



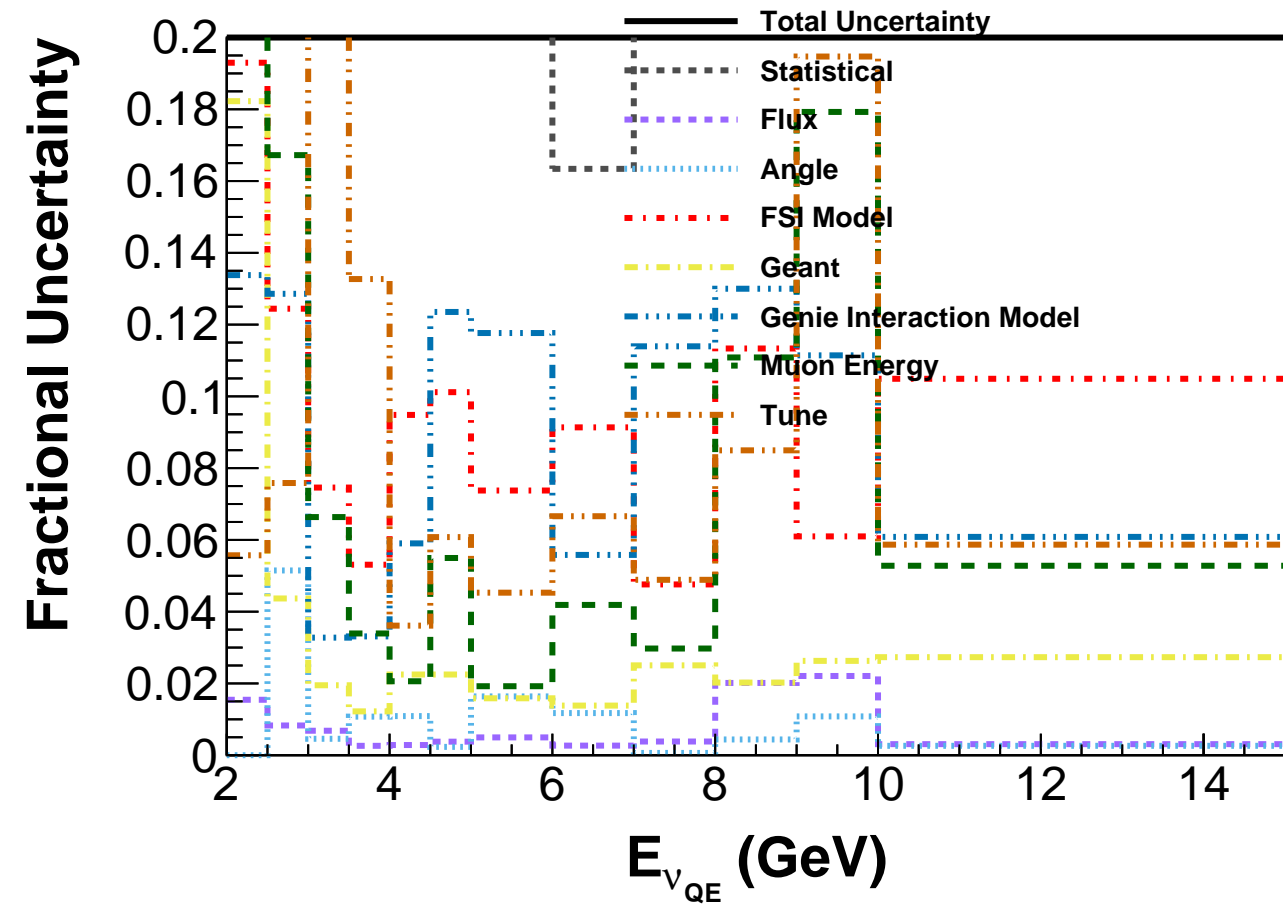
effcorr data vs truth



Efficiency Factor Systematics

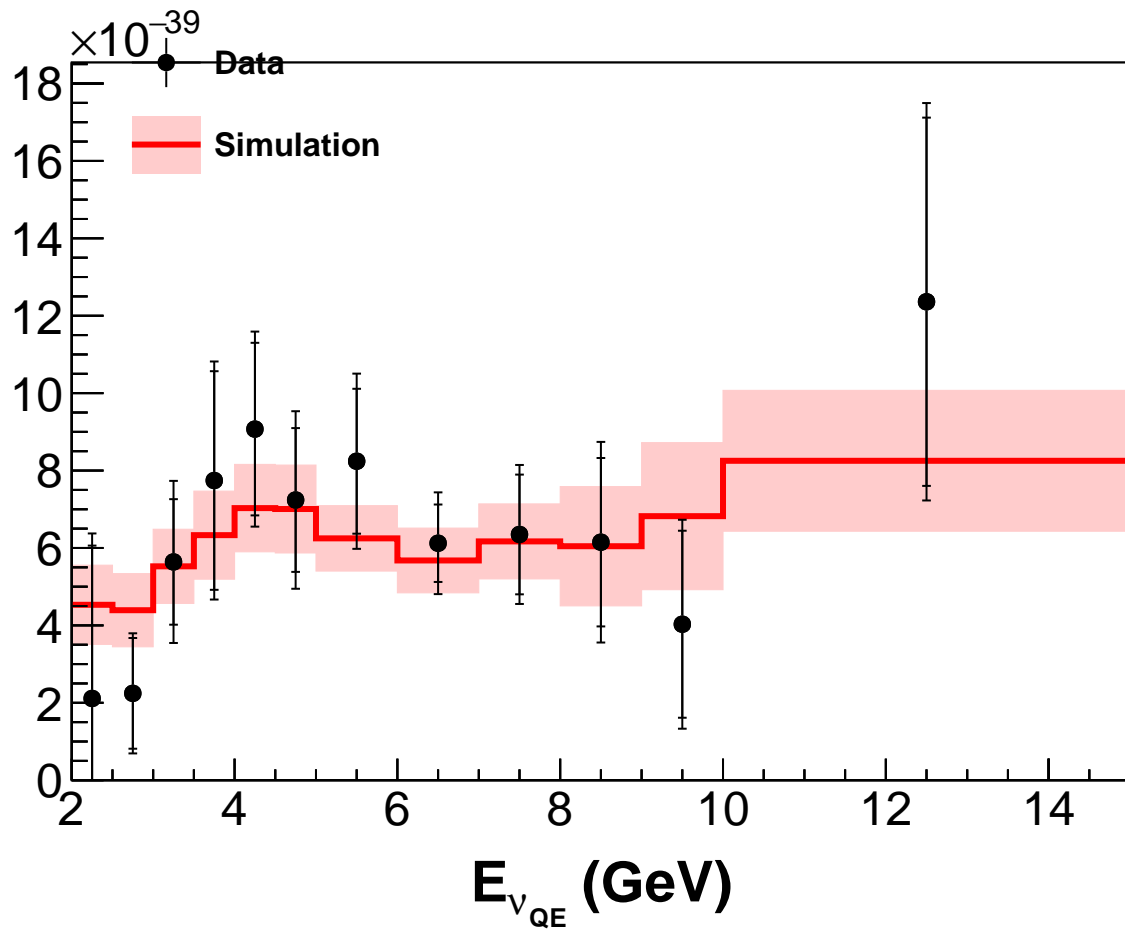


Efficiency Corrected Data Systematics



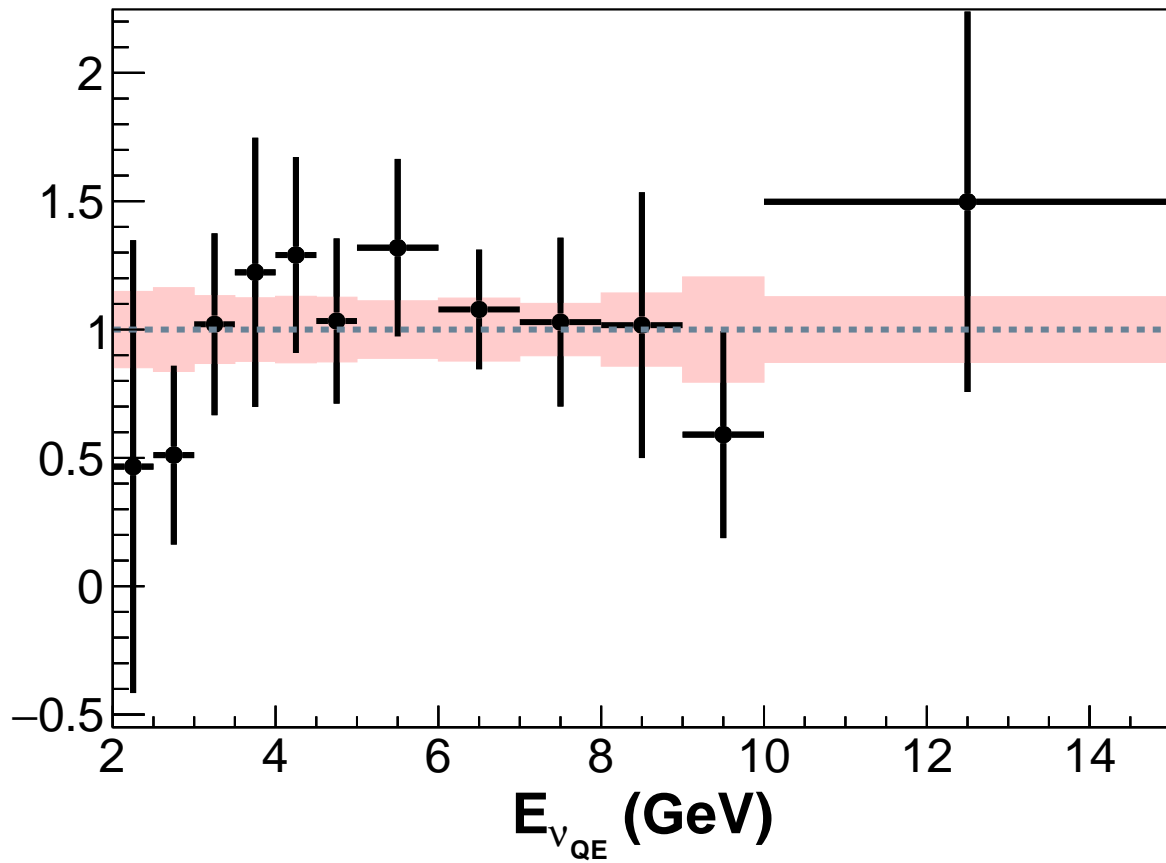
sigma

Counts per unit



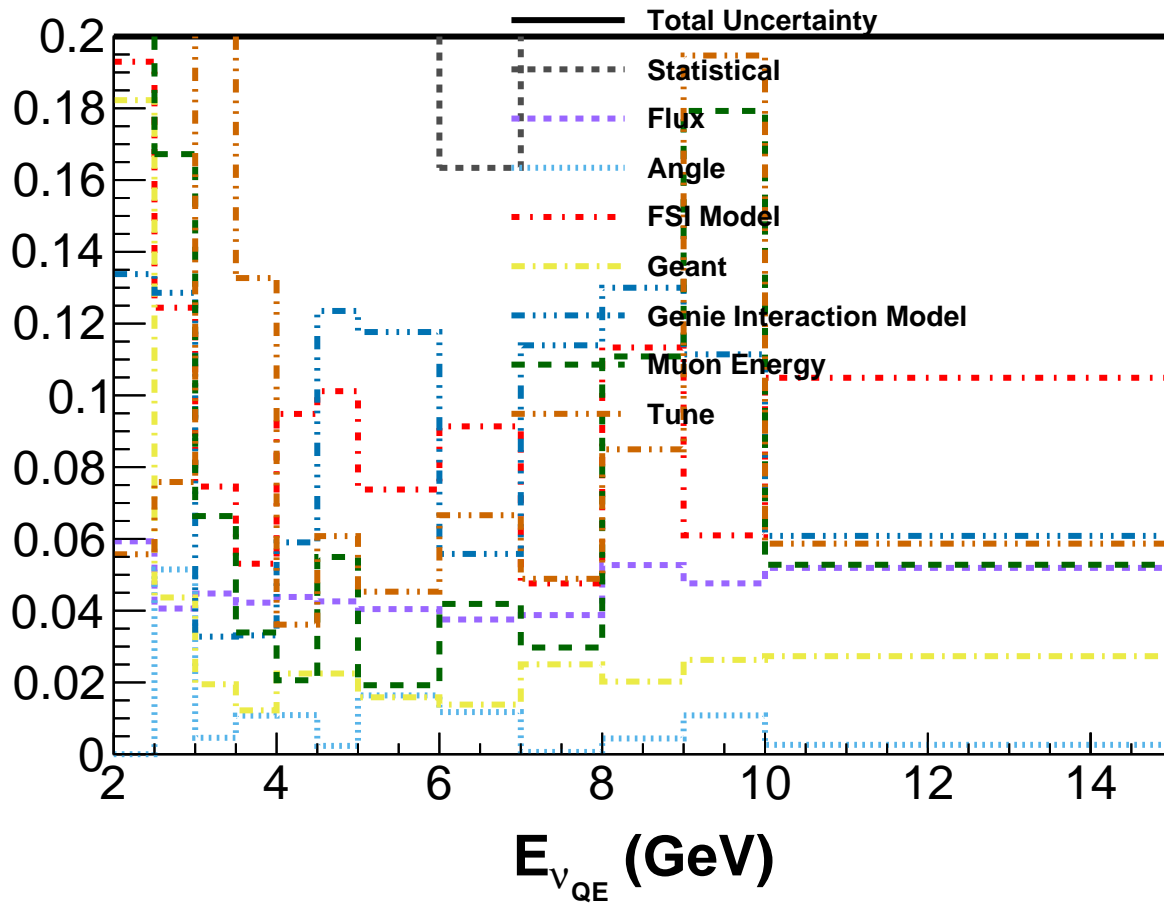
sigma

Data / MC

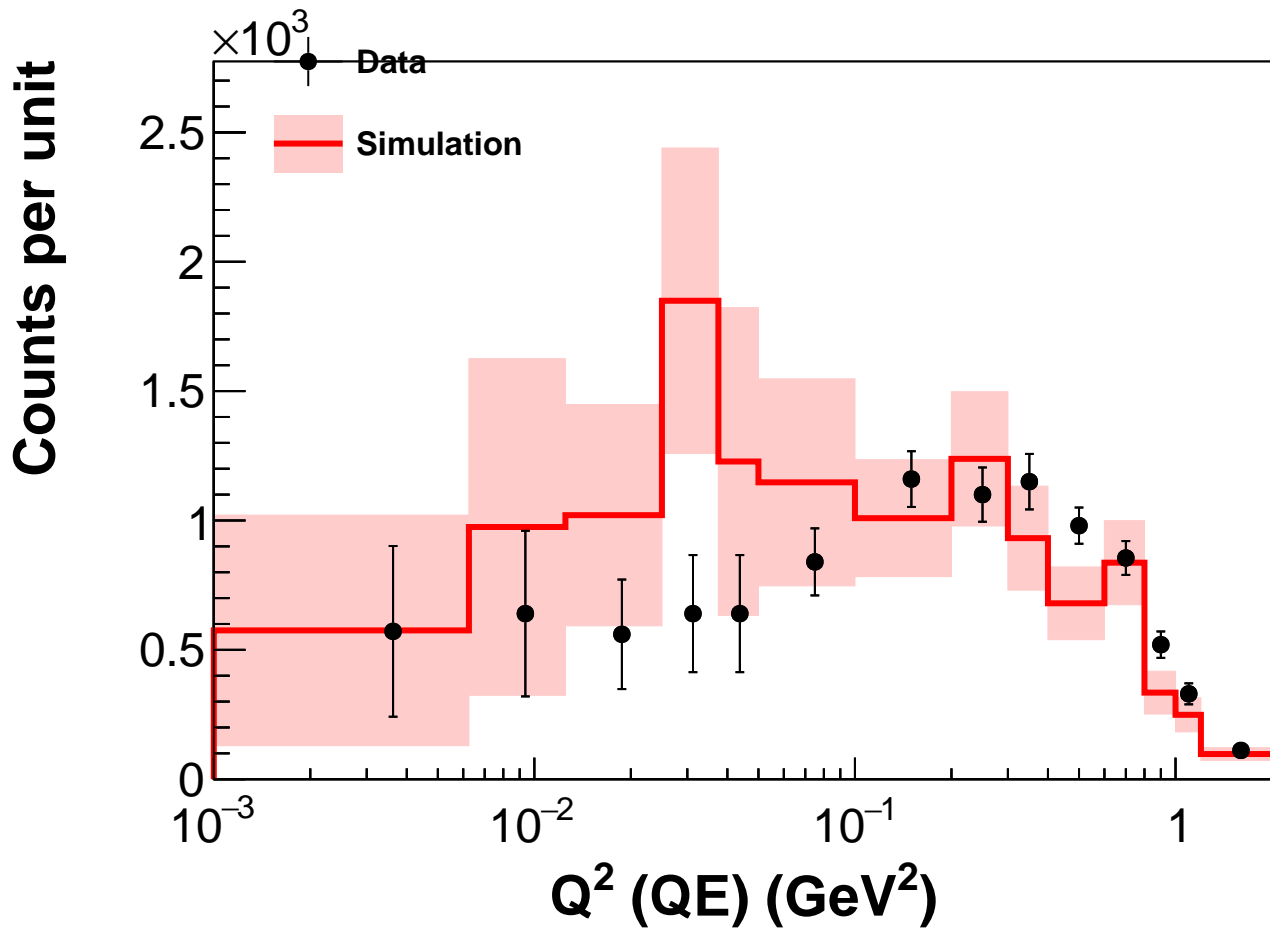


Cross Section Systematics

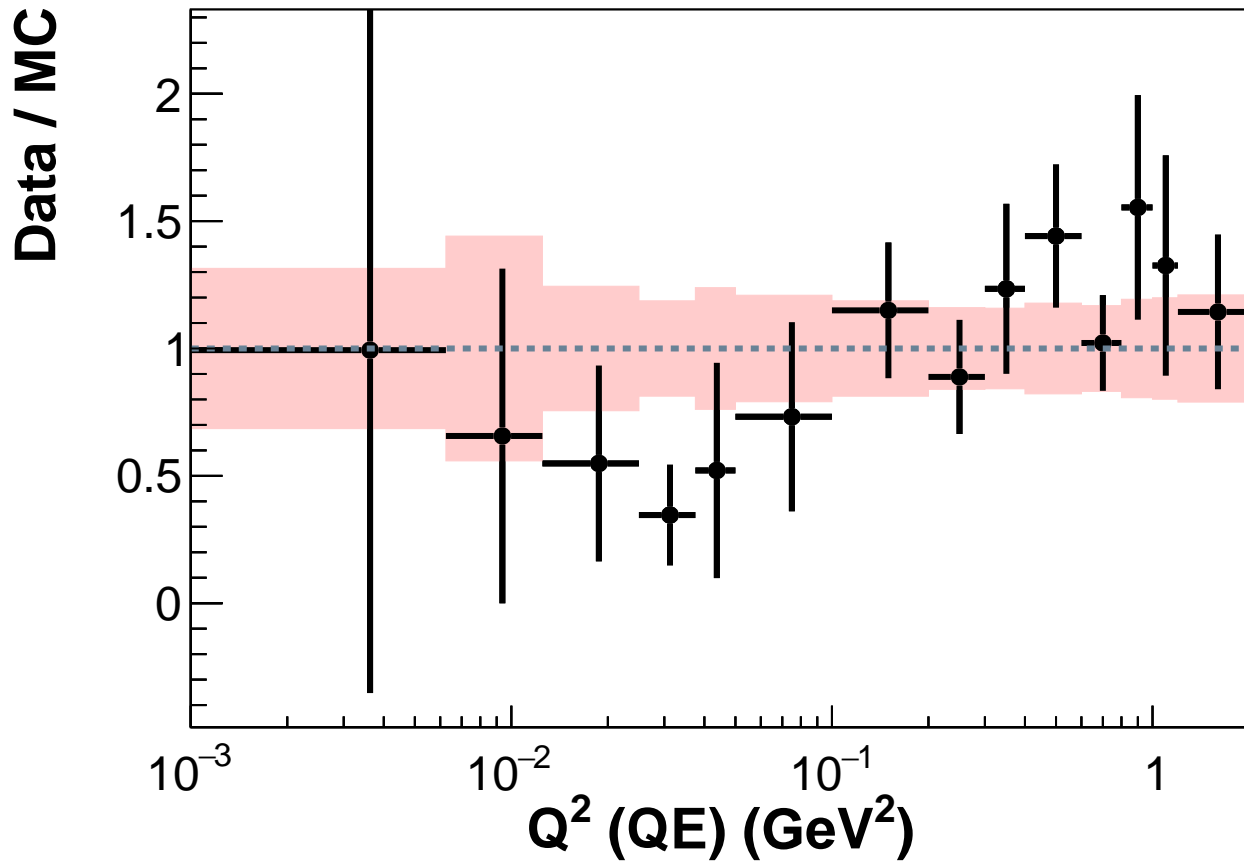
Fractional Uncertainty



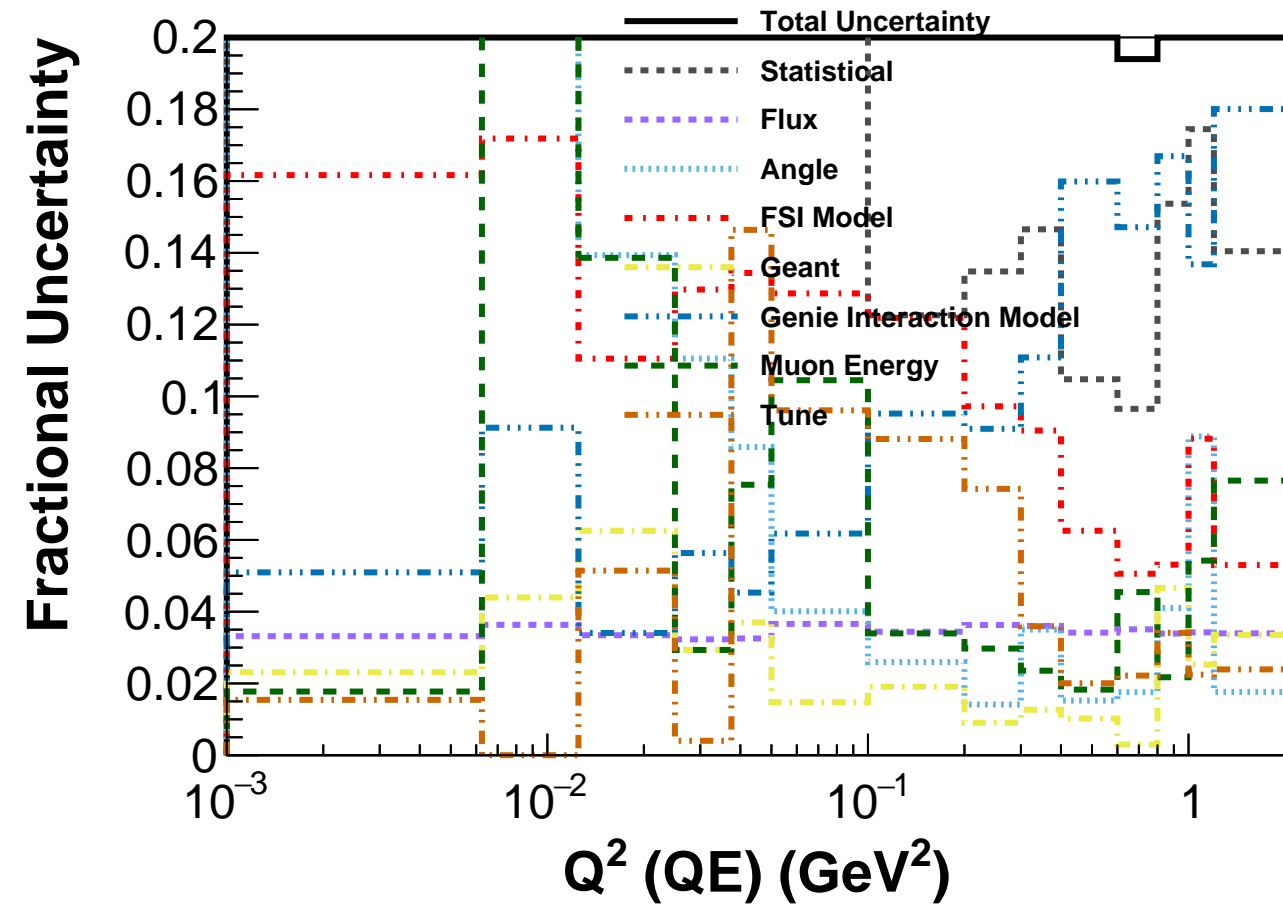
DATA_vs_MC



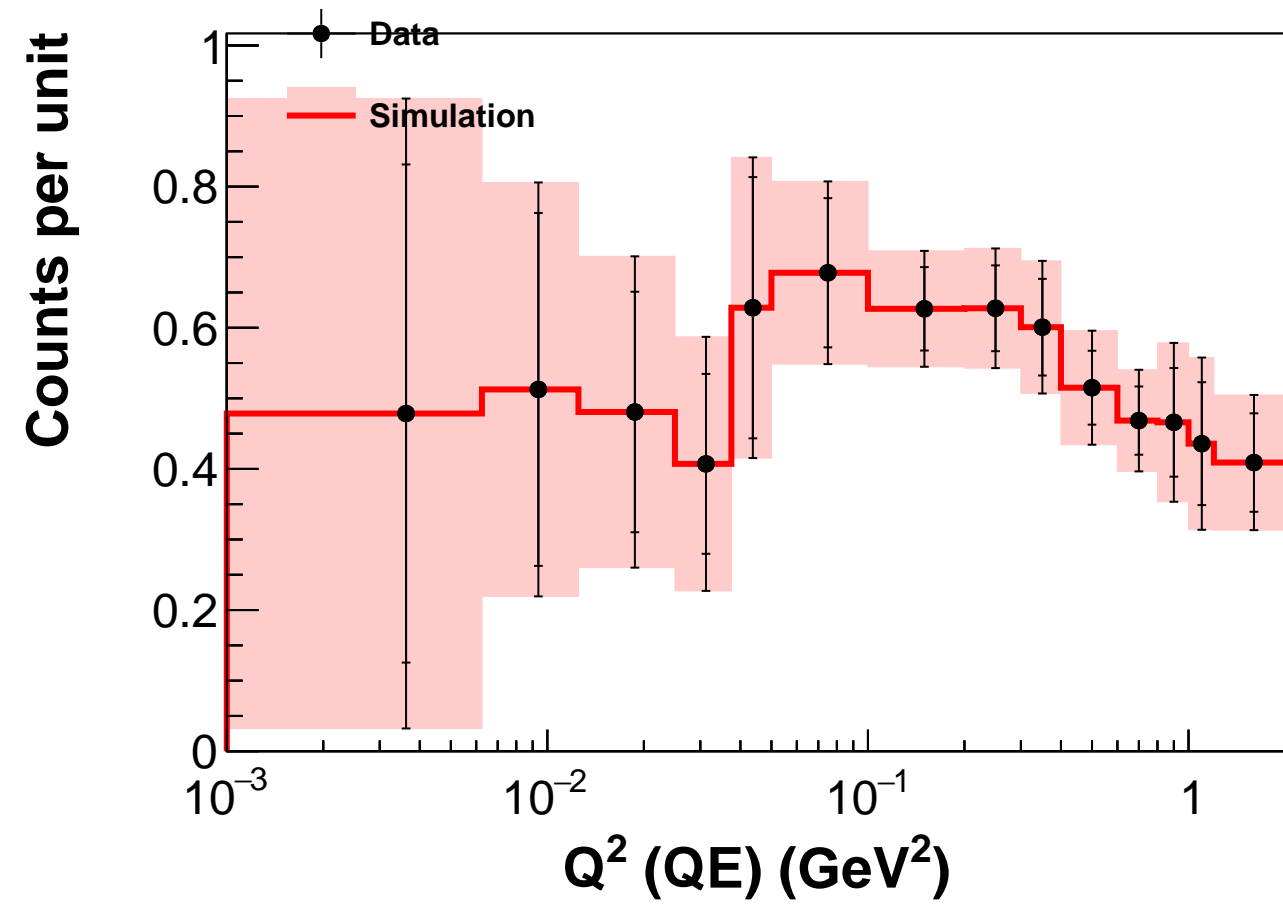
DATA_vs_MC



Raw MC Systematics

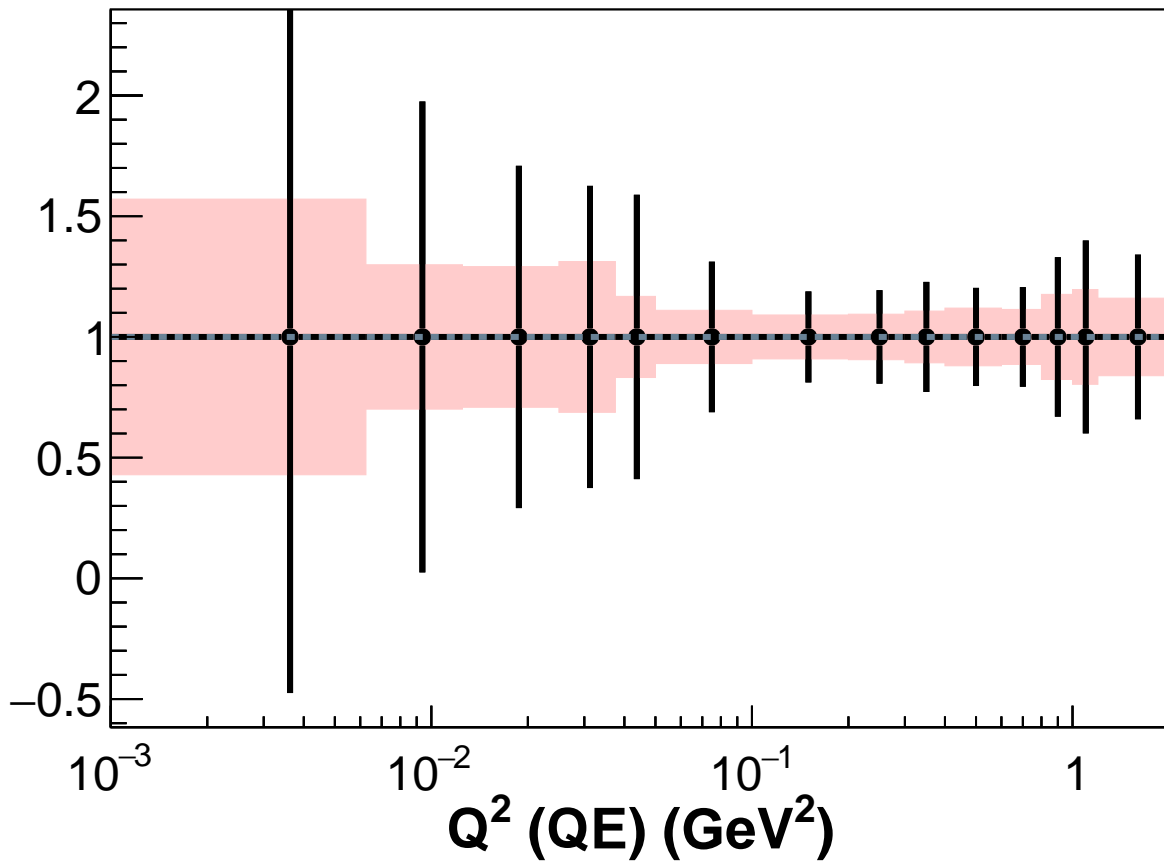


Signal Fraction

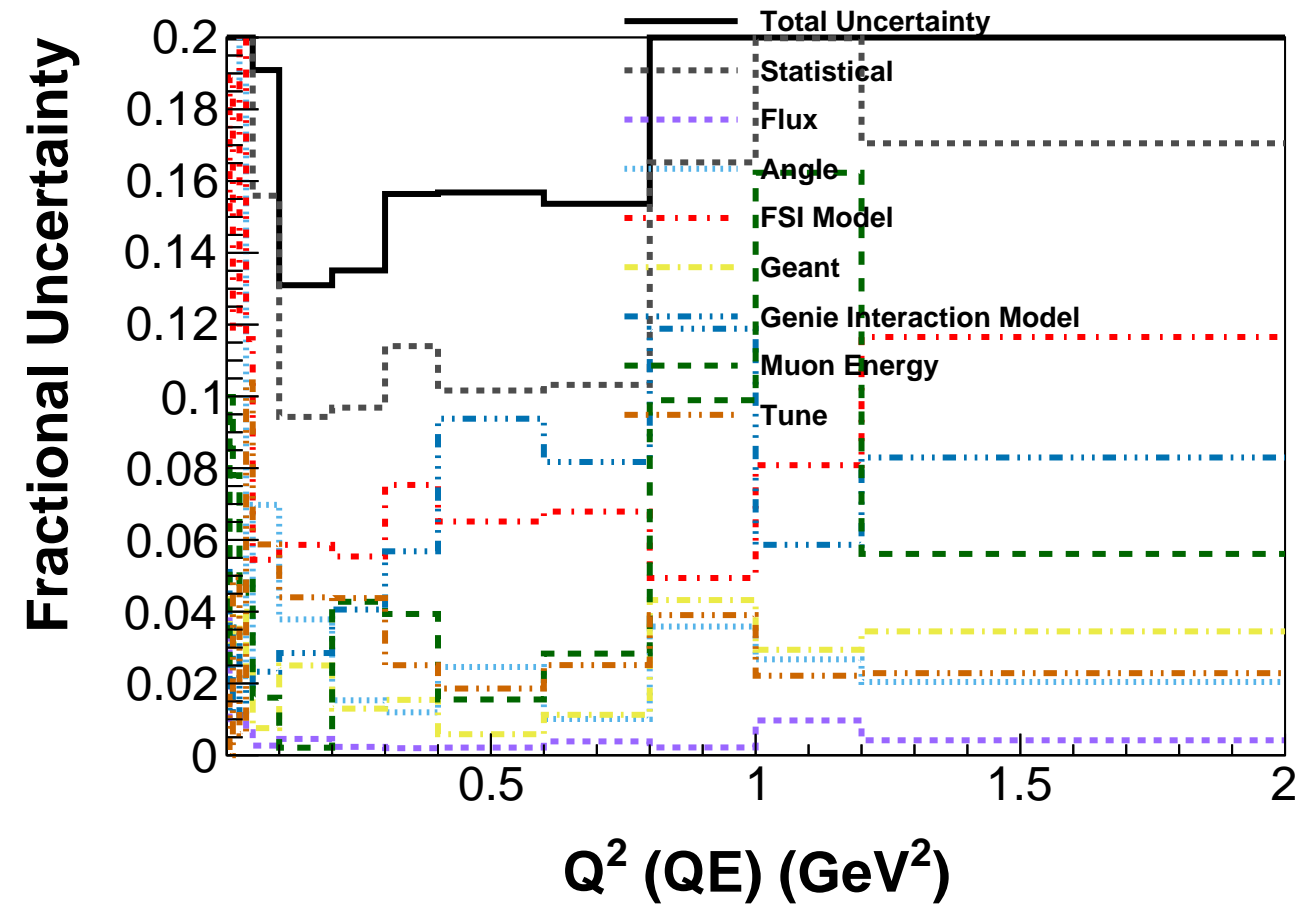


Signal Fraction

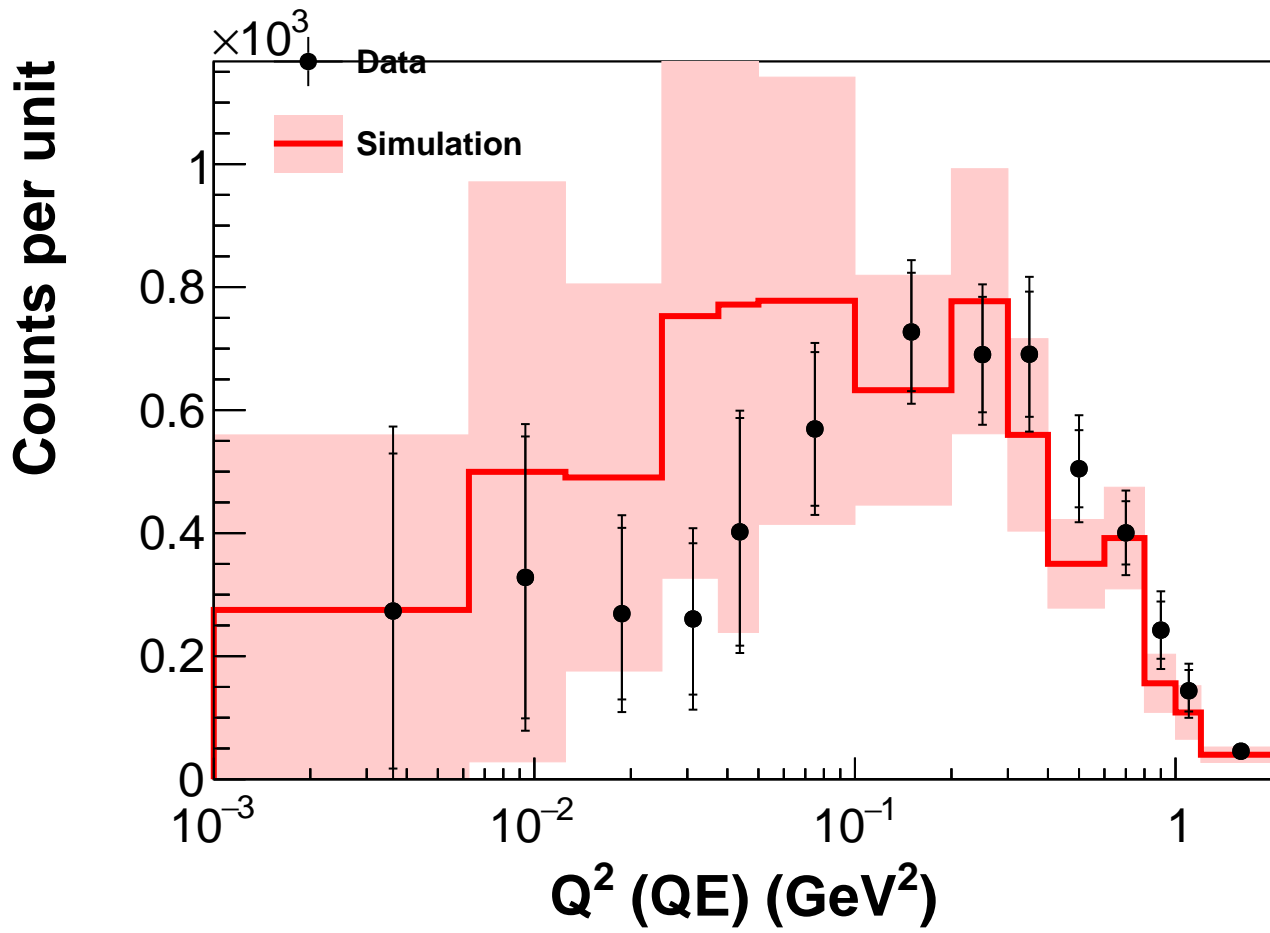
Data / MC



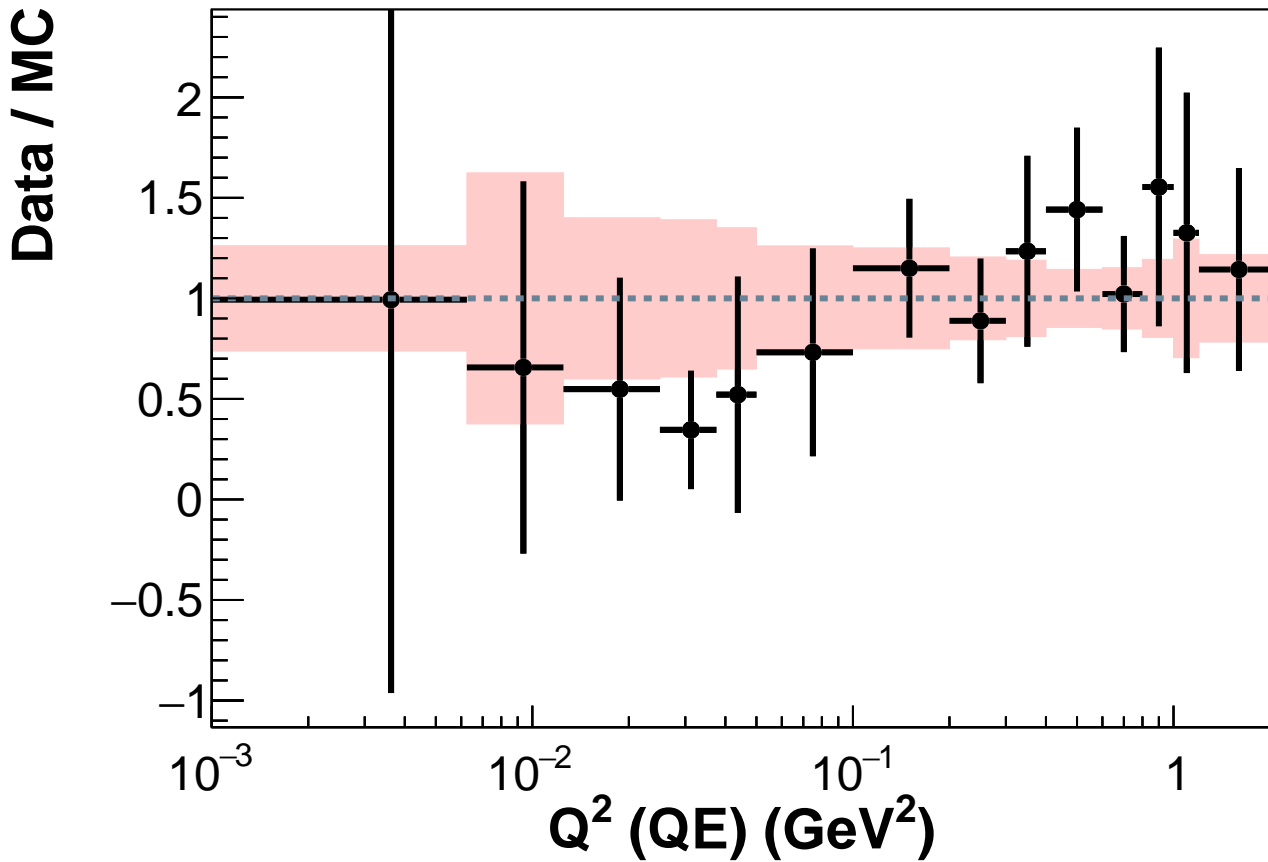
Signal Fraction Systematics



BKGsub vs. MC signal

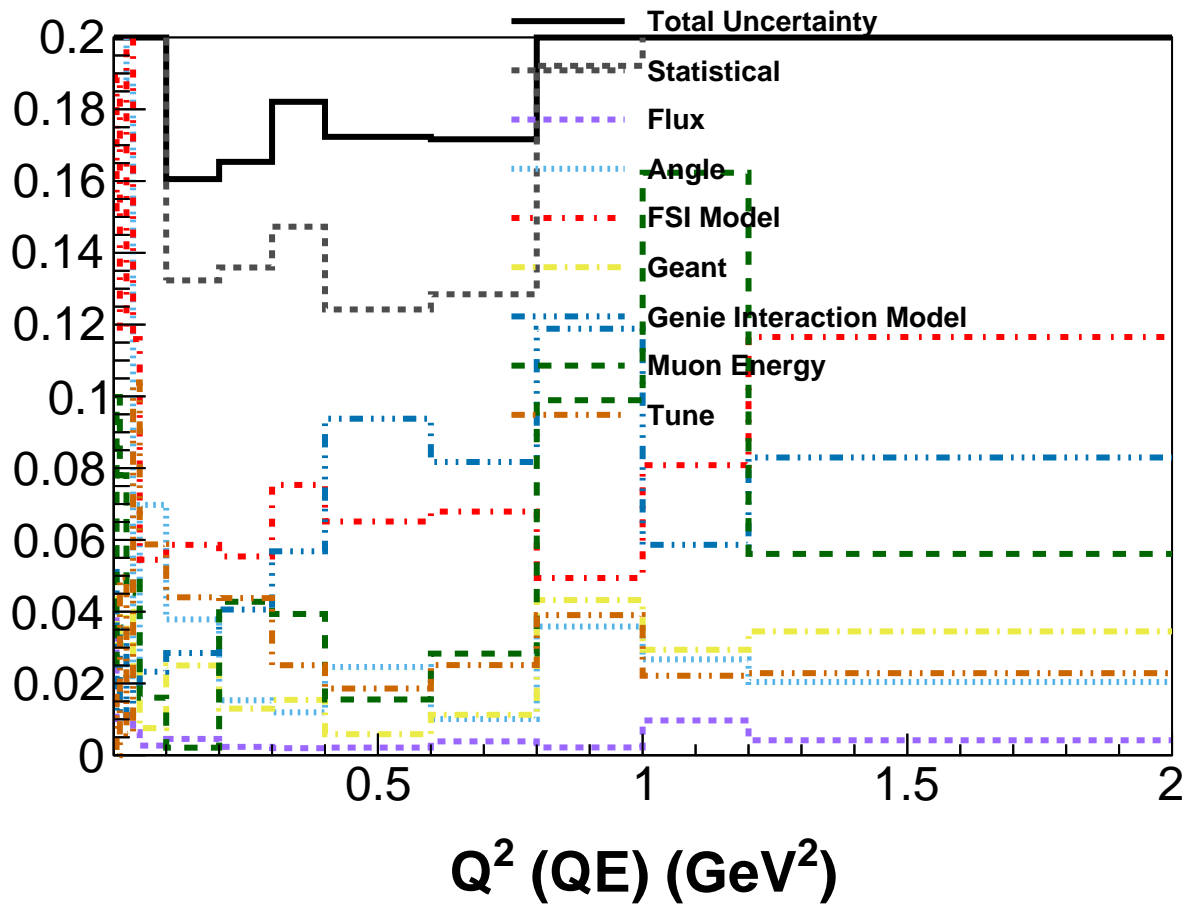


BKGsub vs. MC signal

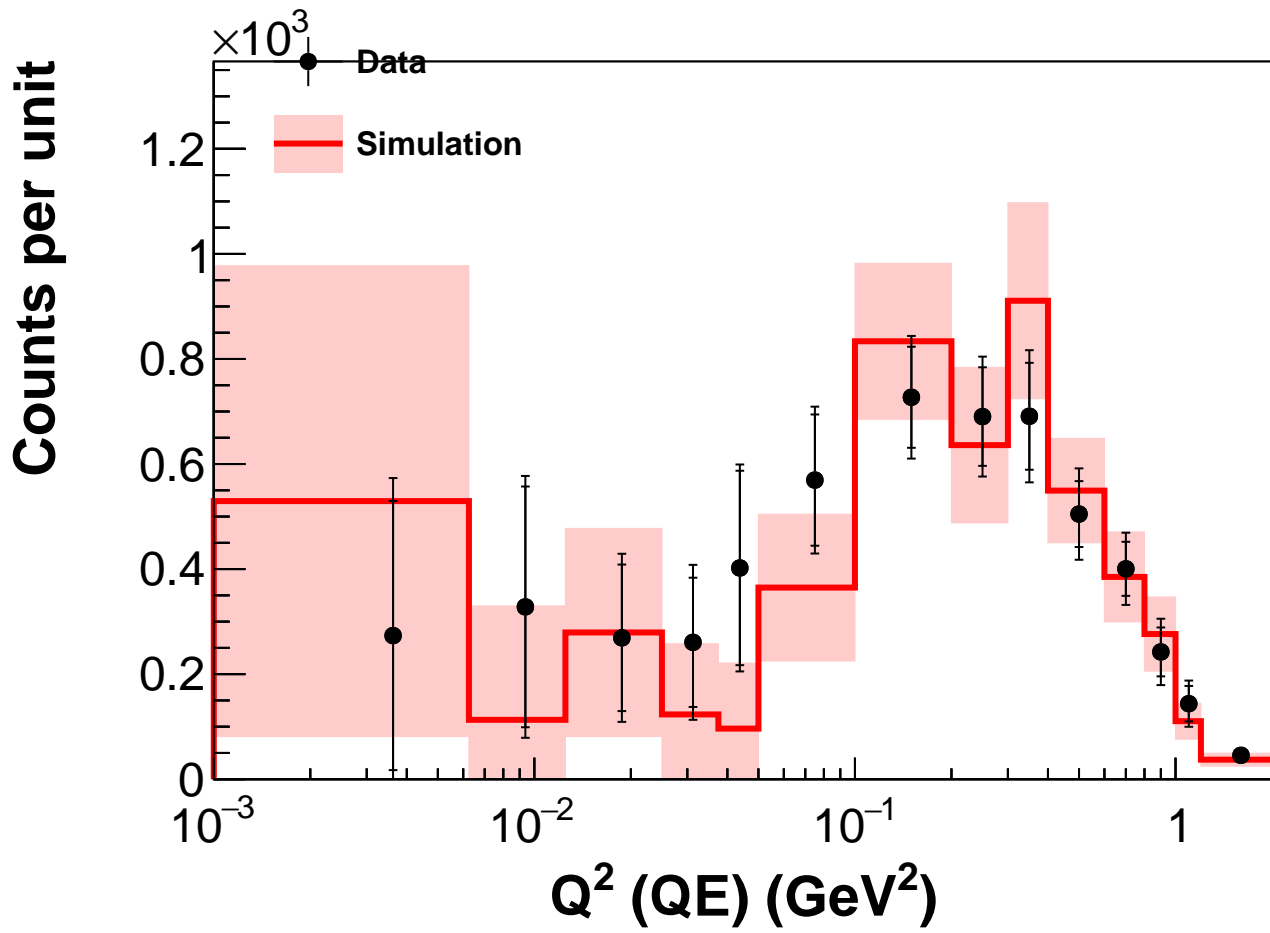


BKGsub Systematics

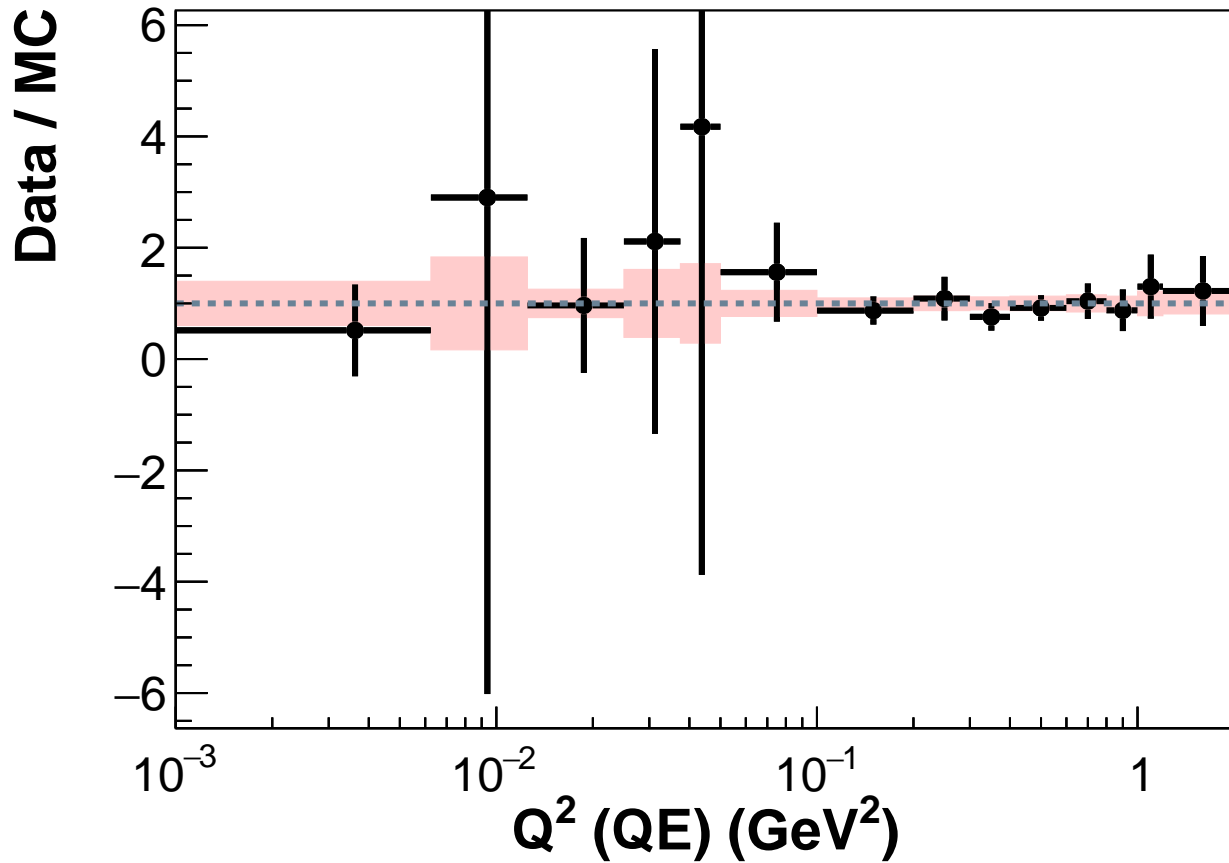
Fractional Uncertainty



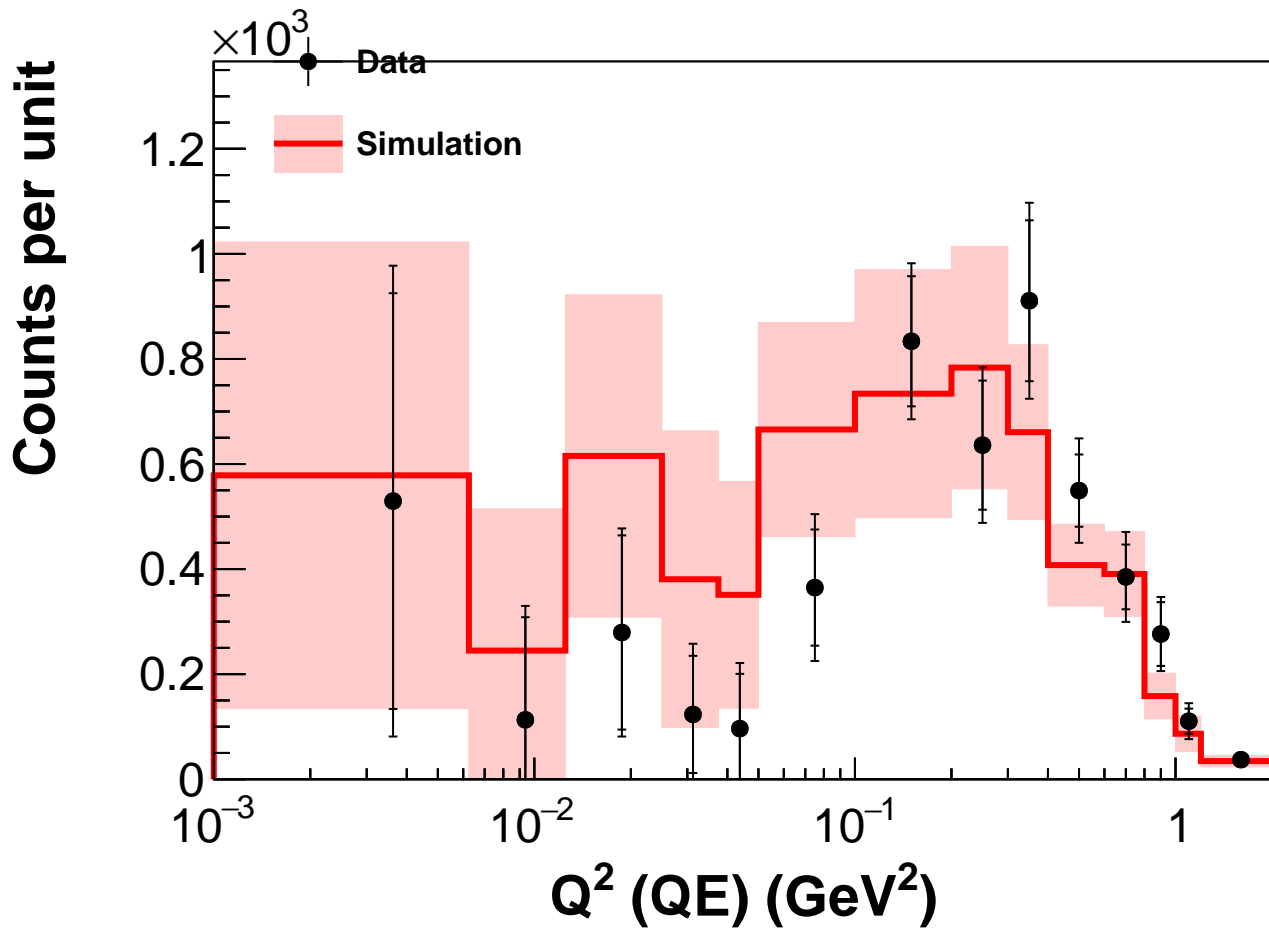
Data Before and After Unsmearing



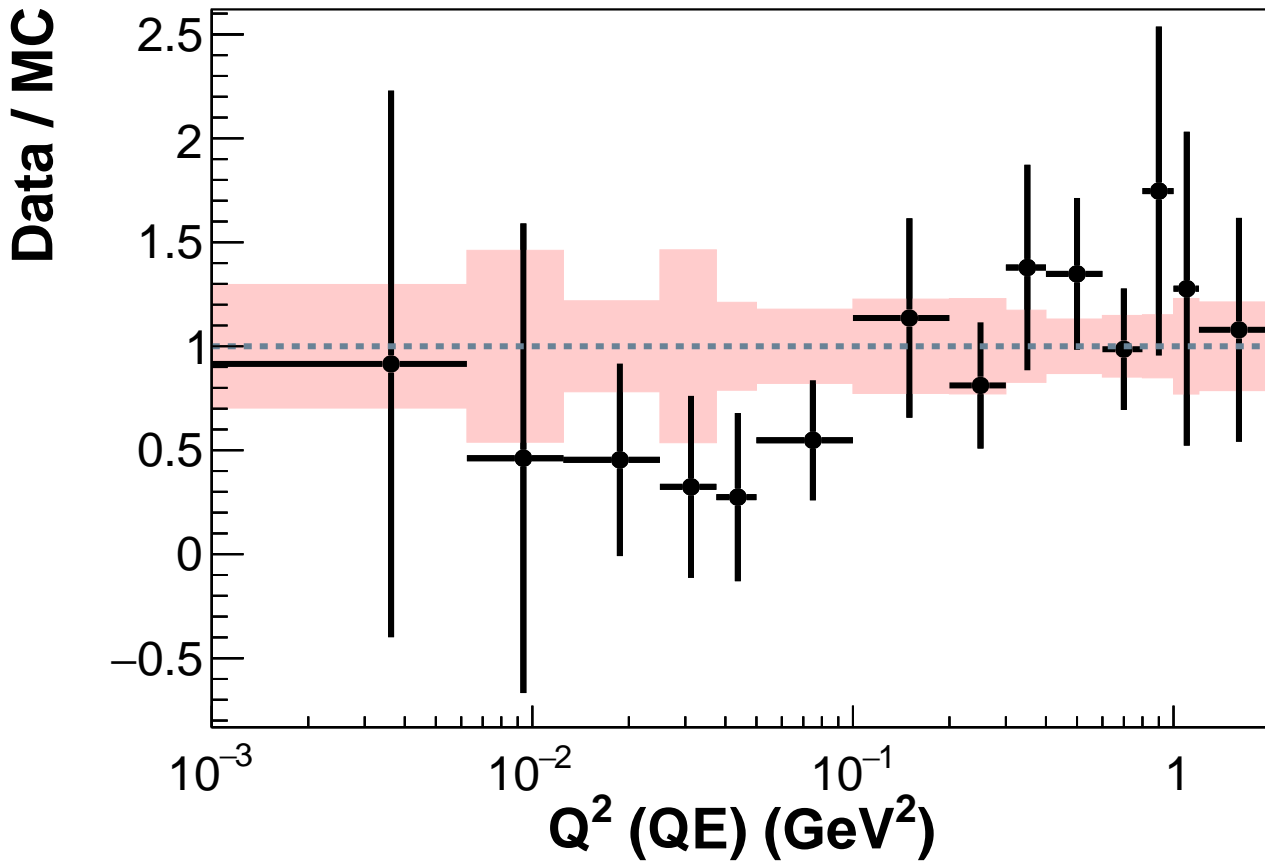
Data Before and After Unsmearing



Unsmeared Data Compared to Selected MC

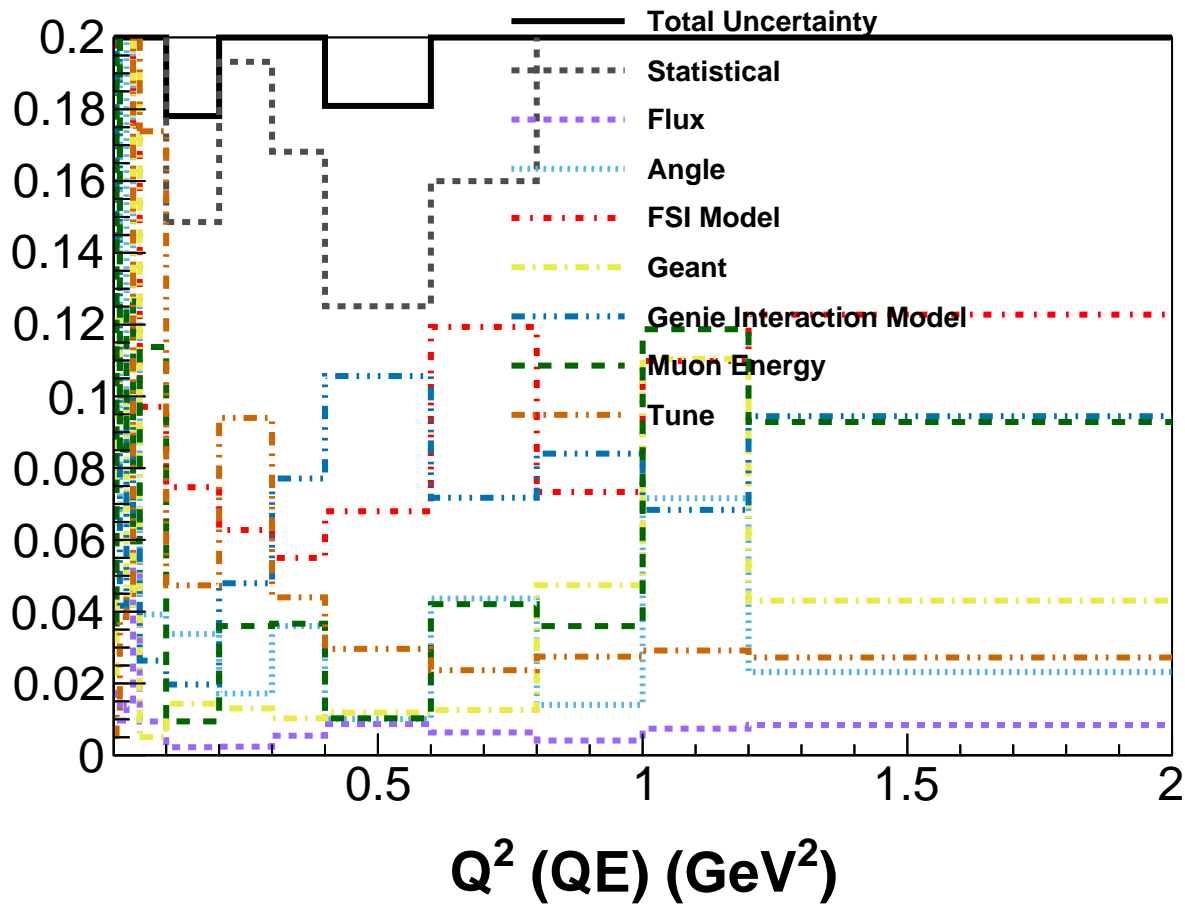


Unsmeared Data Compared to Selected MC

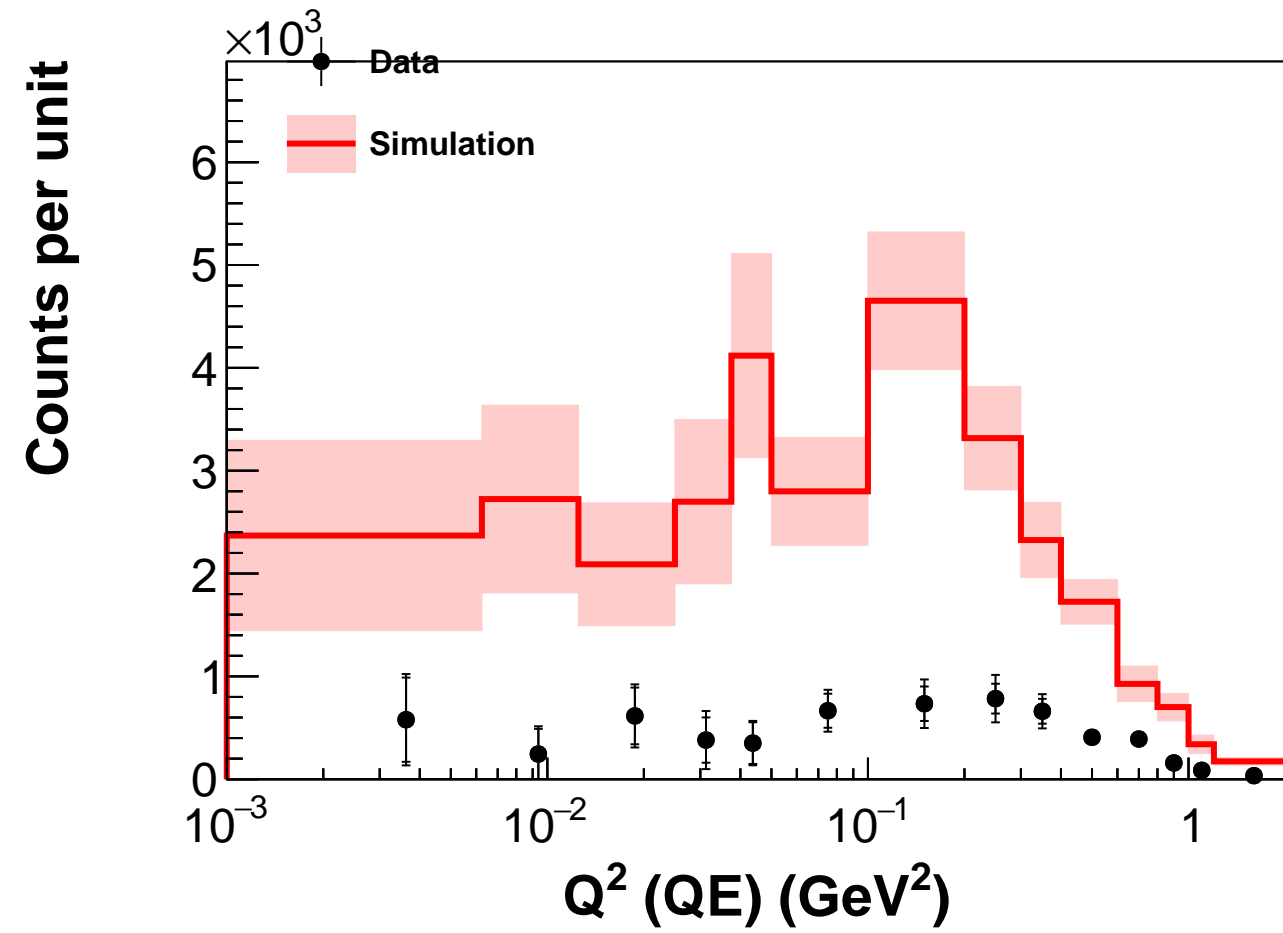


Unsmeared Data Systematics

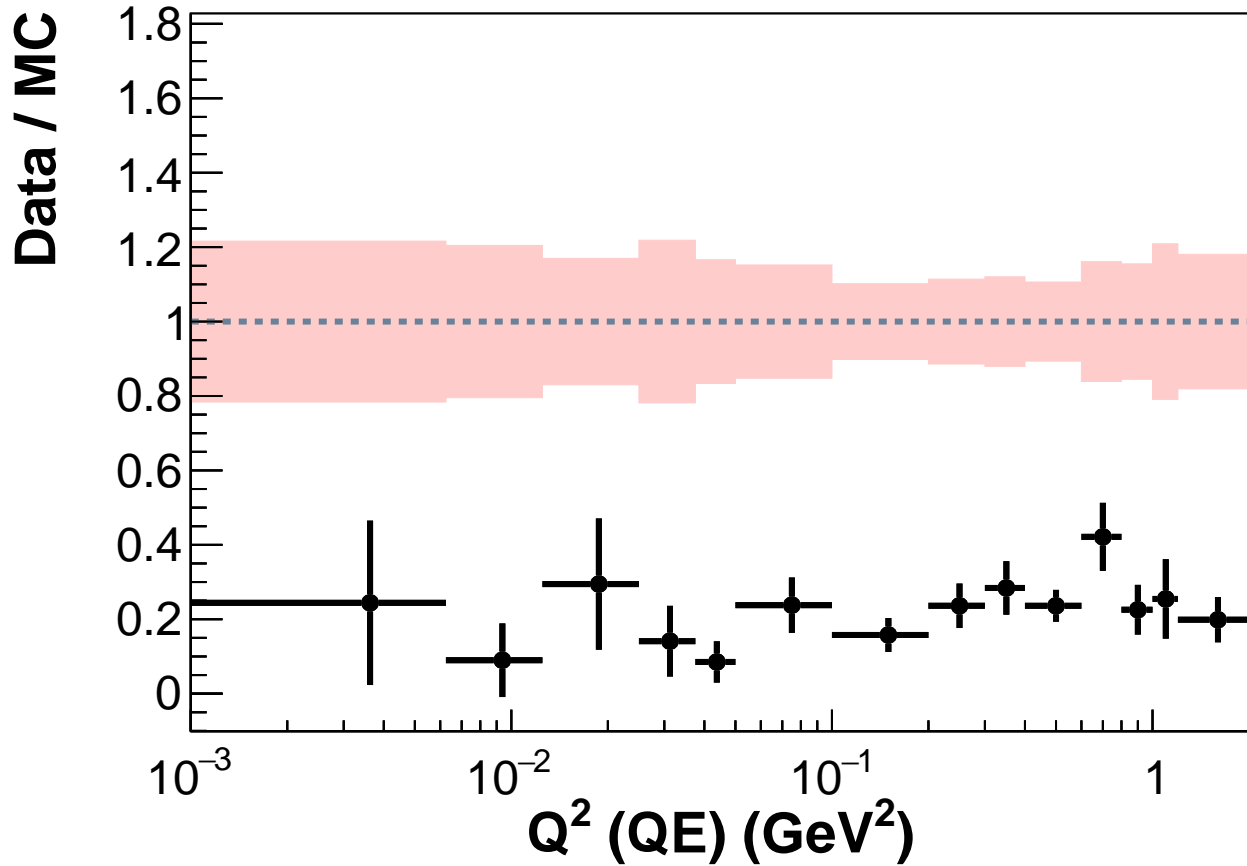
Fractional Uncertainty



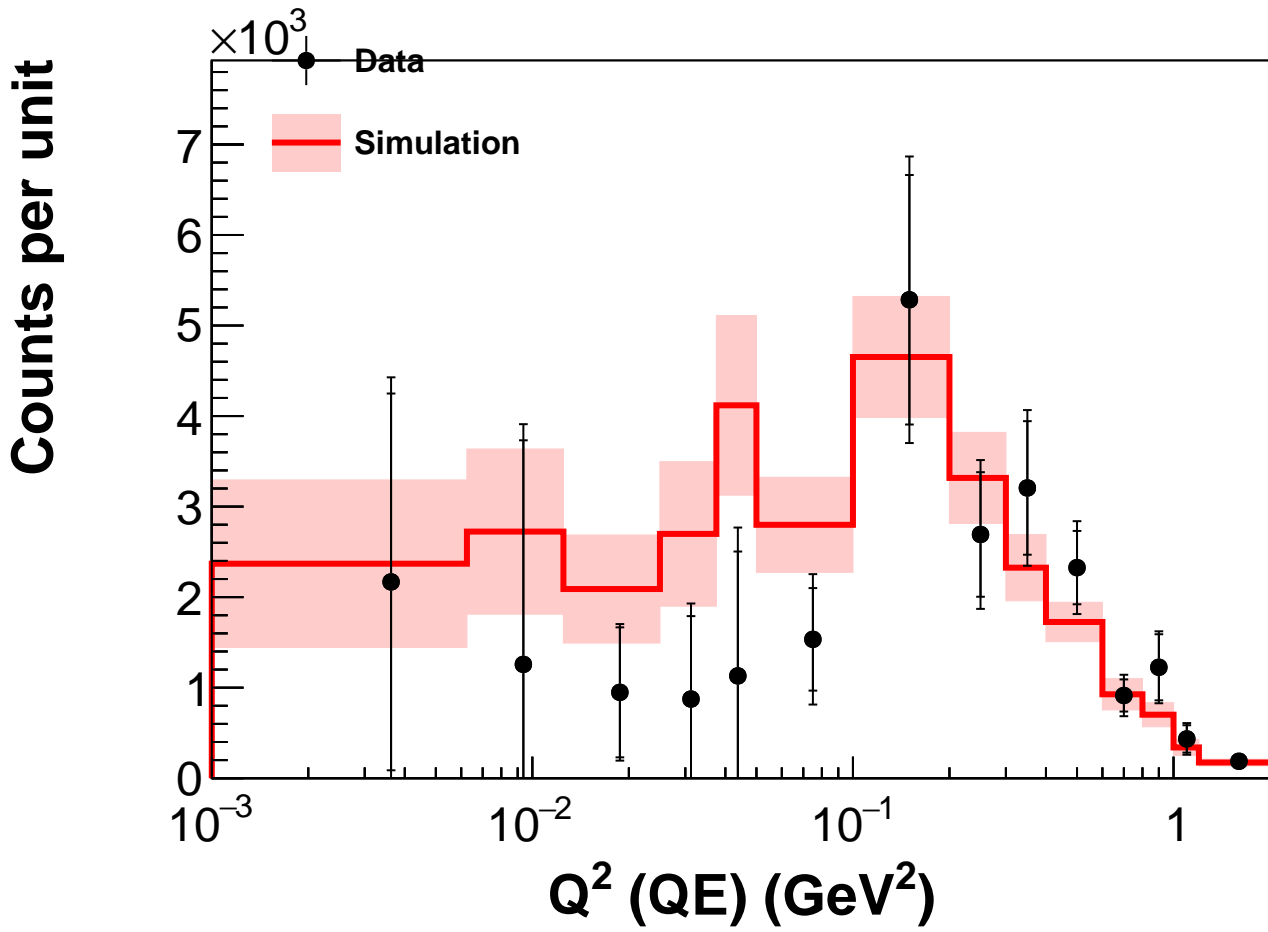
efficiency: selected and true



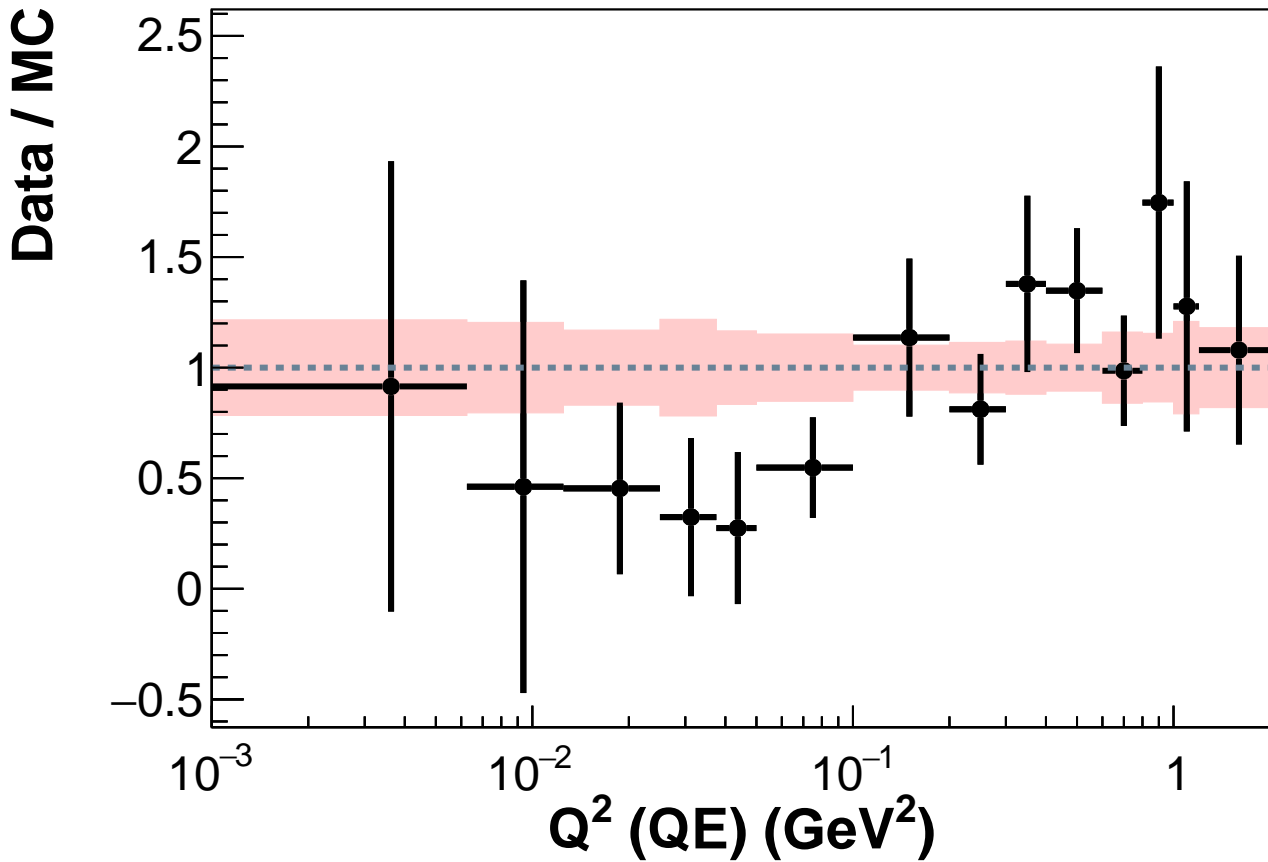
efficiency: selected and true



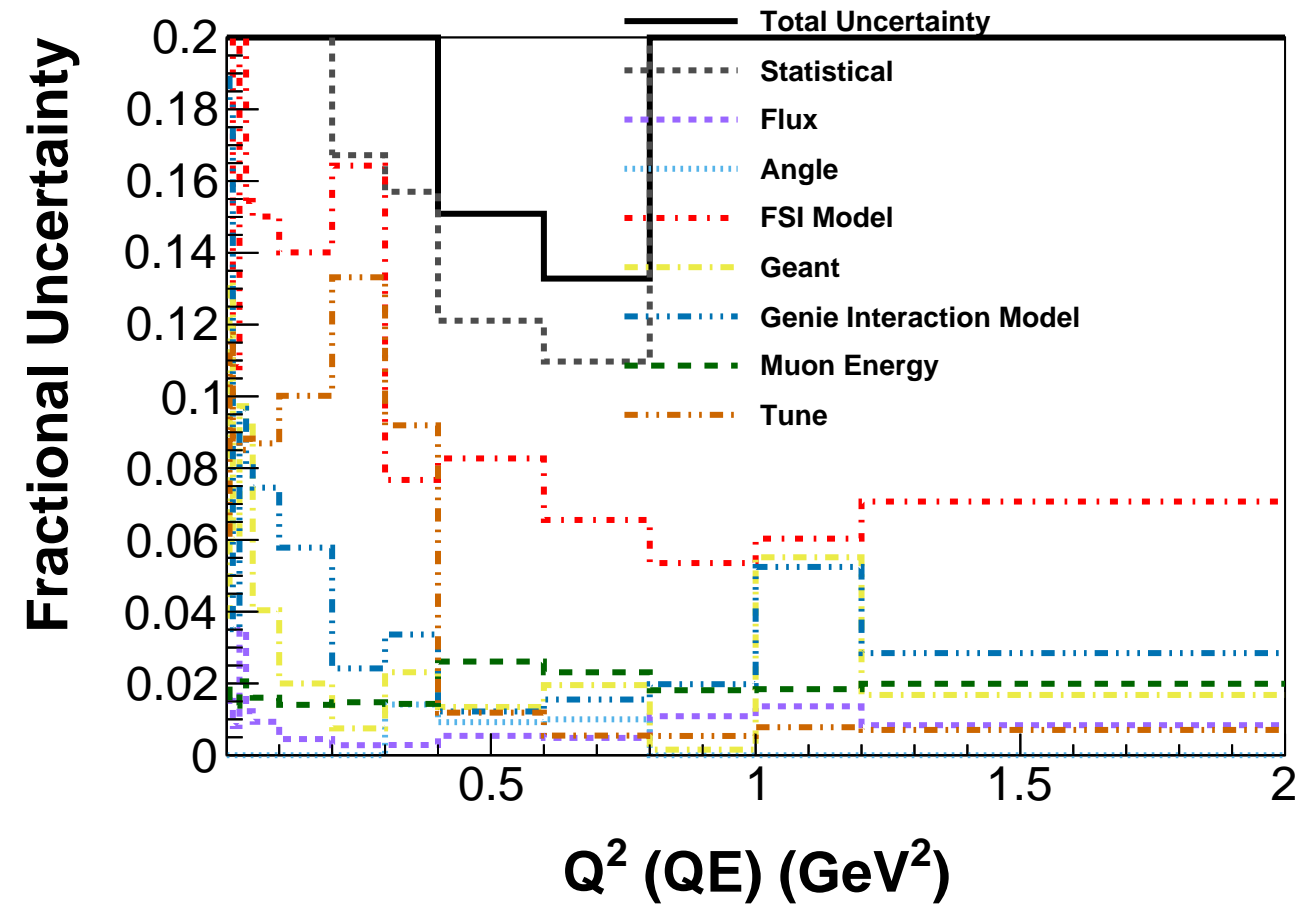
effcorr data vs truth



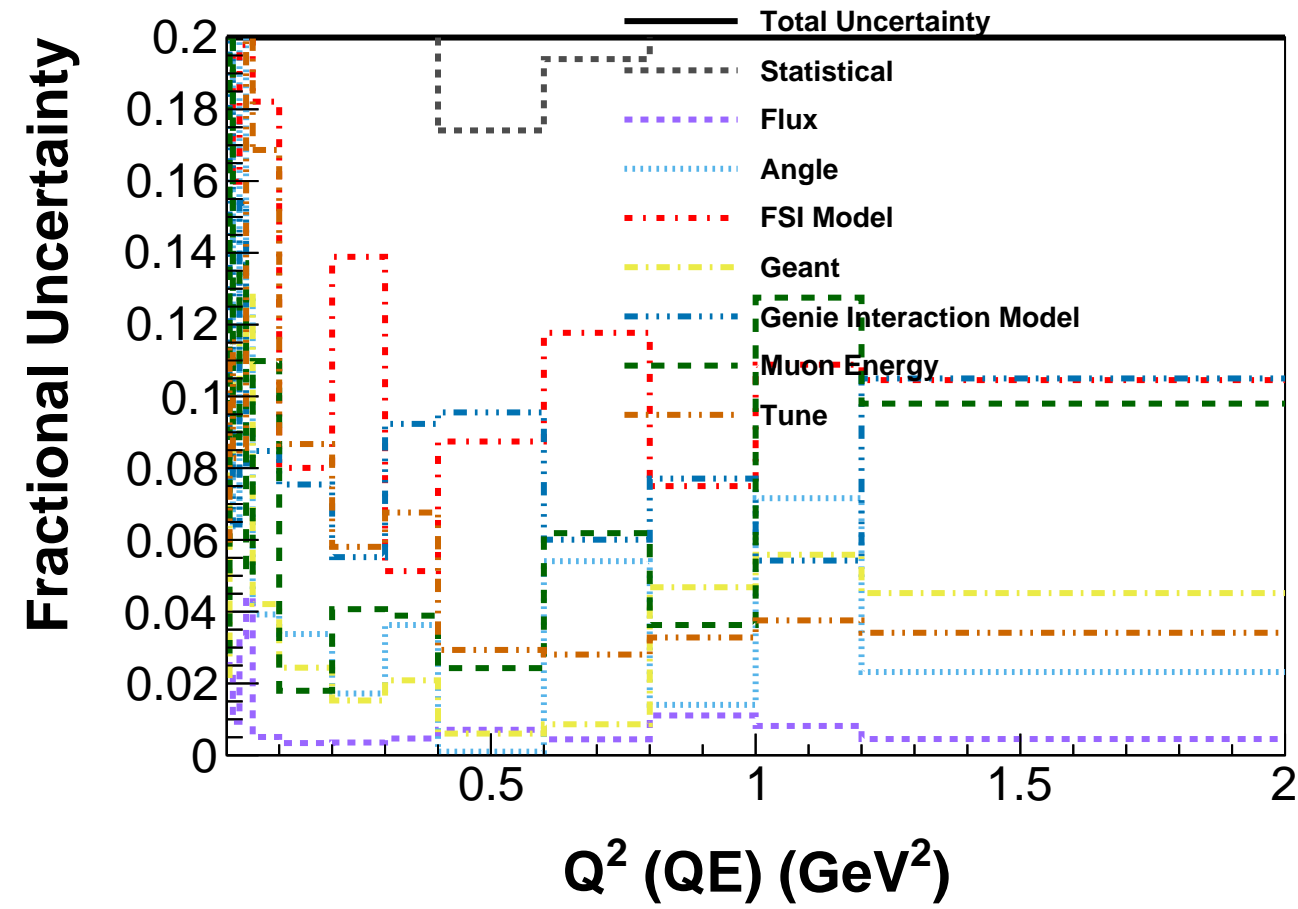
effcorr data vs truth



Efficiency Factor Systematics

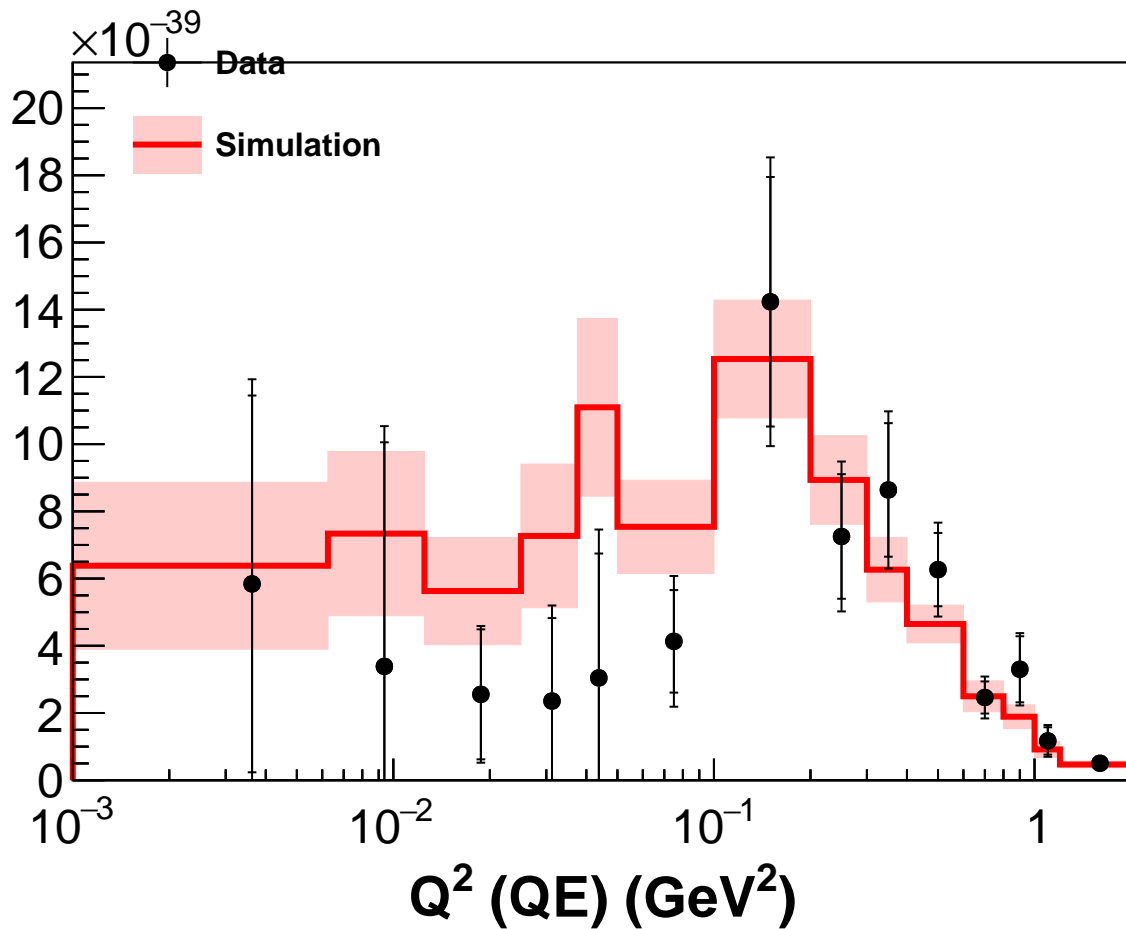


Efficiency Corrected Data Systematics

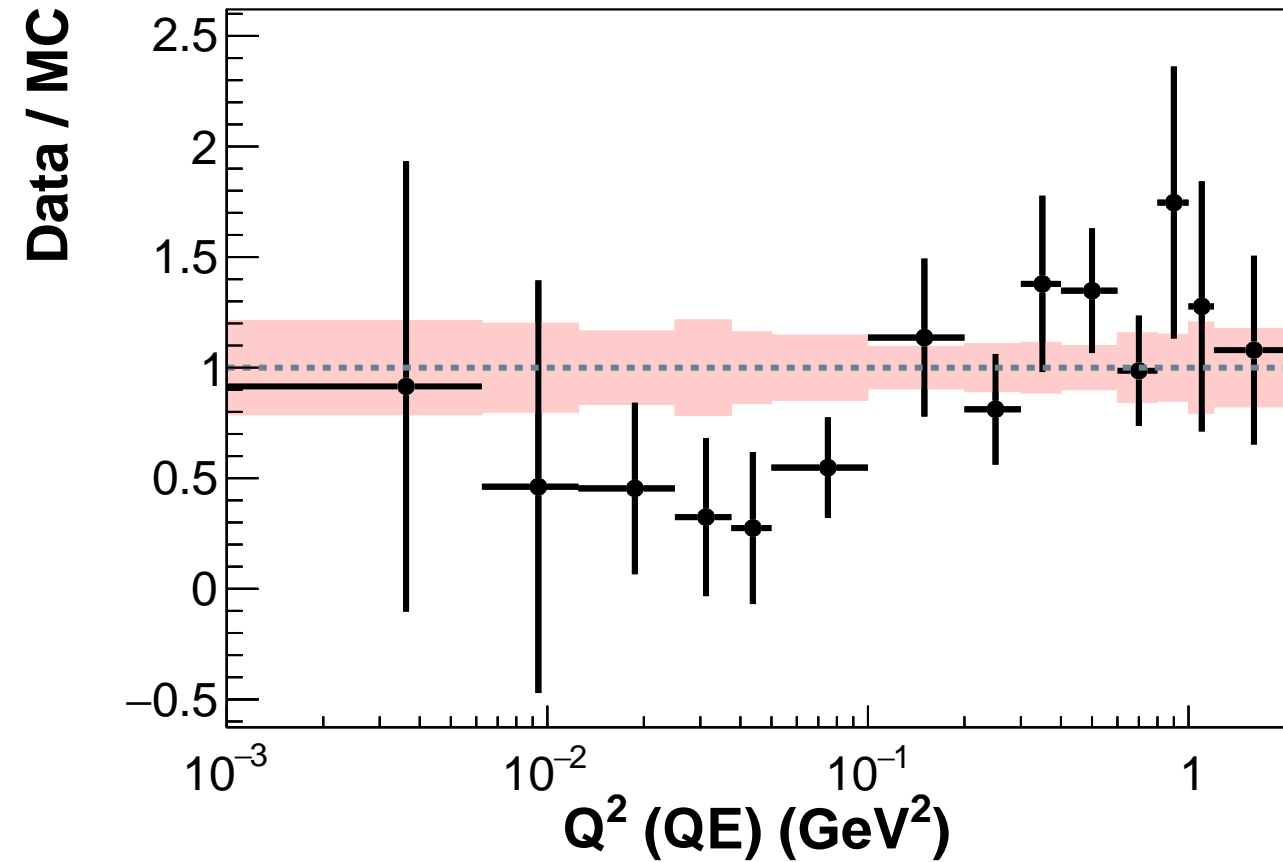


sigma

Counts per unit

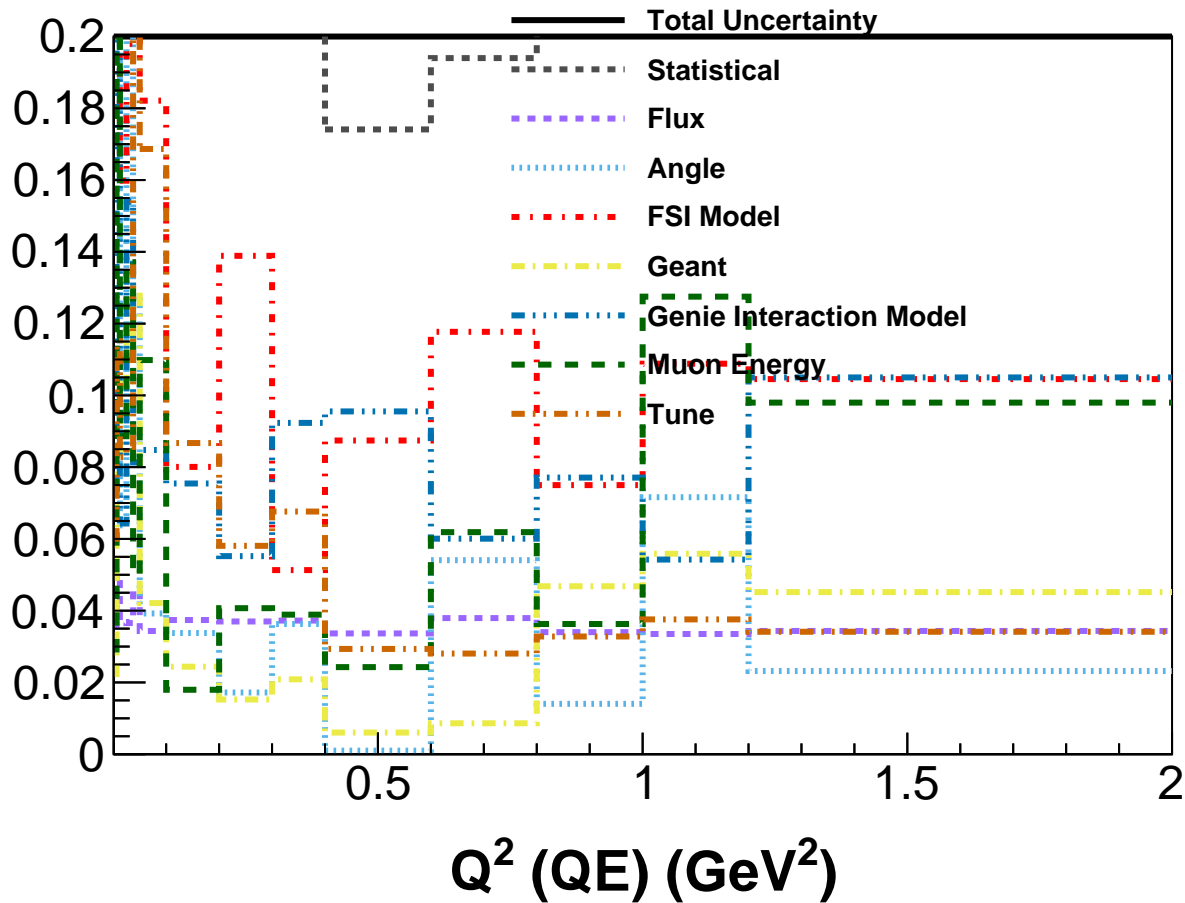


sigma

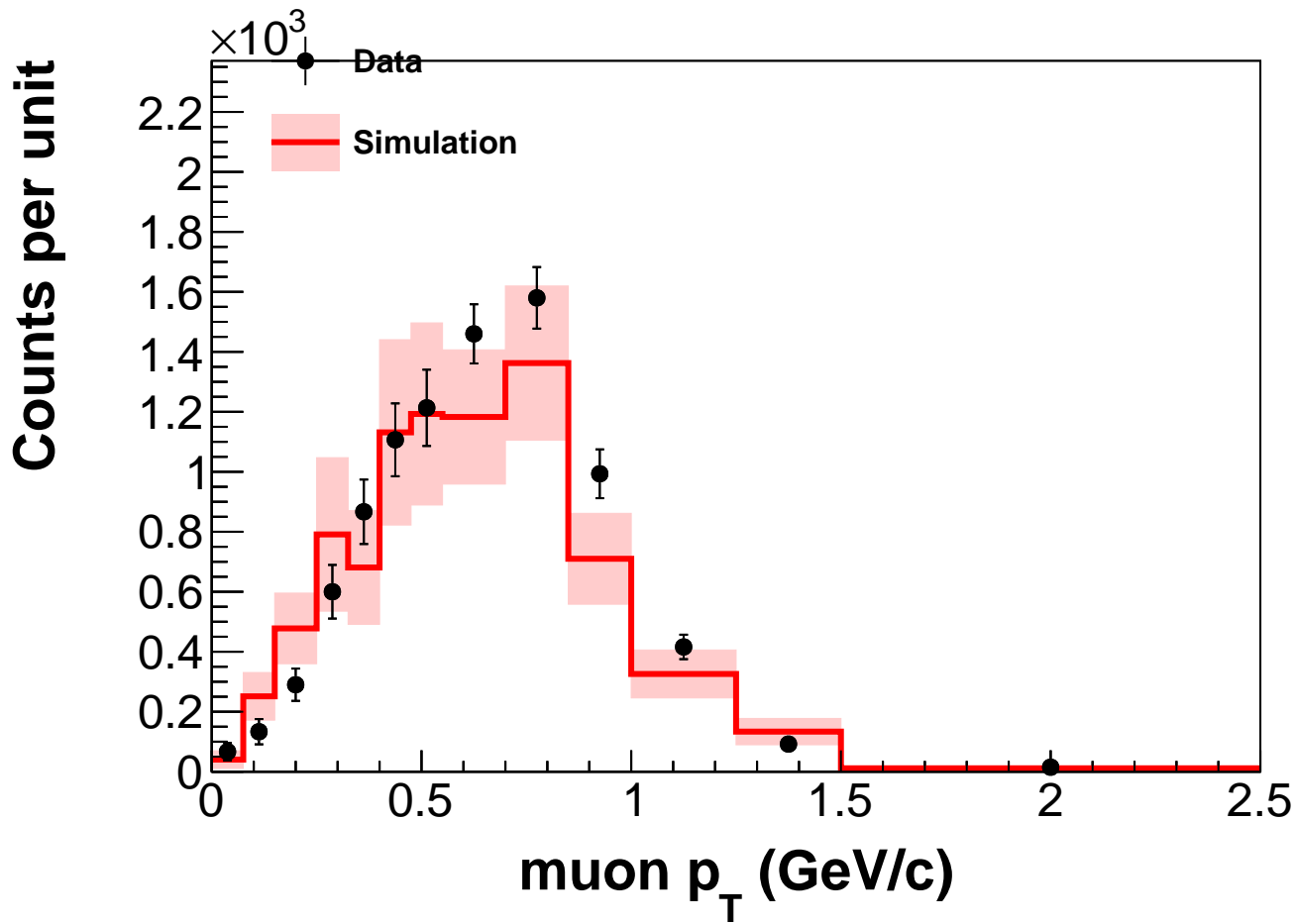


Cross Section Systematics

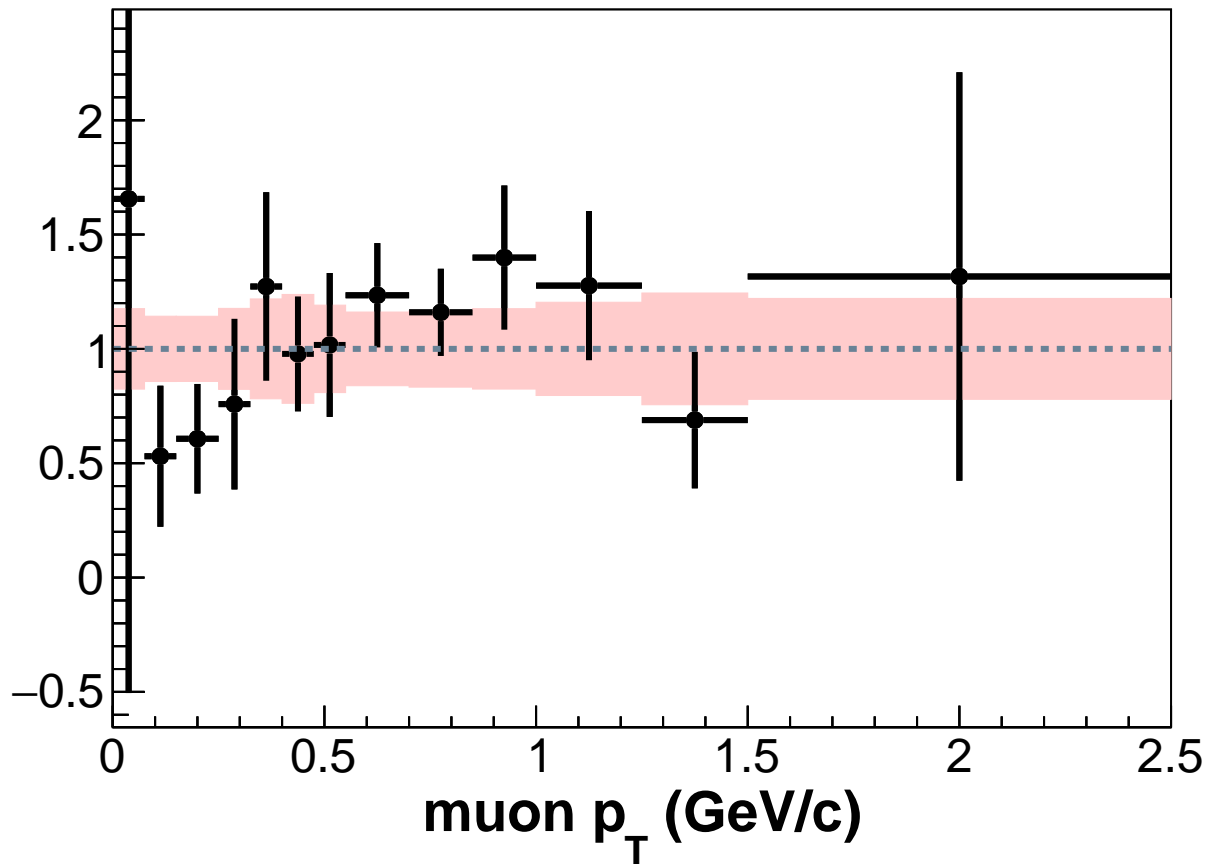
Fractional Uncertainty



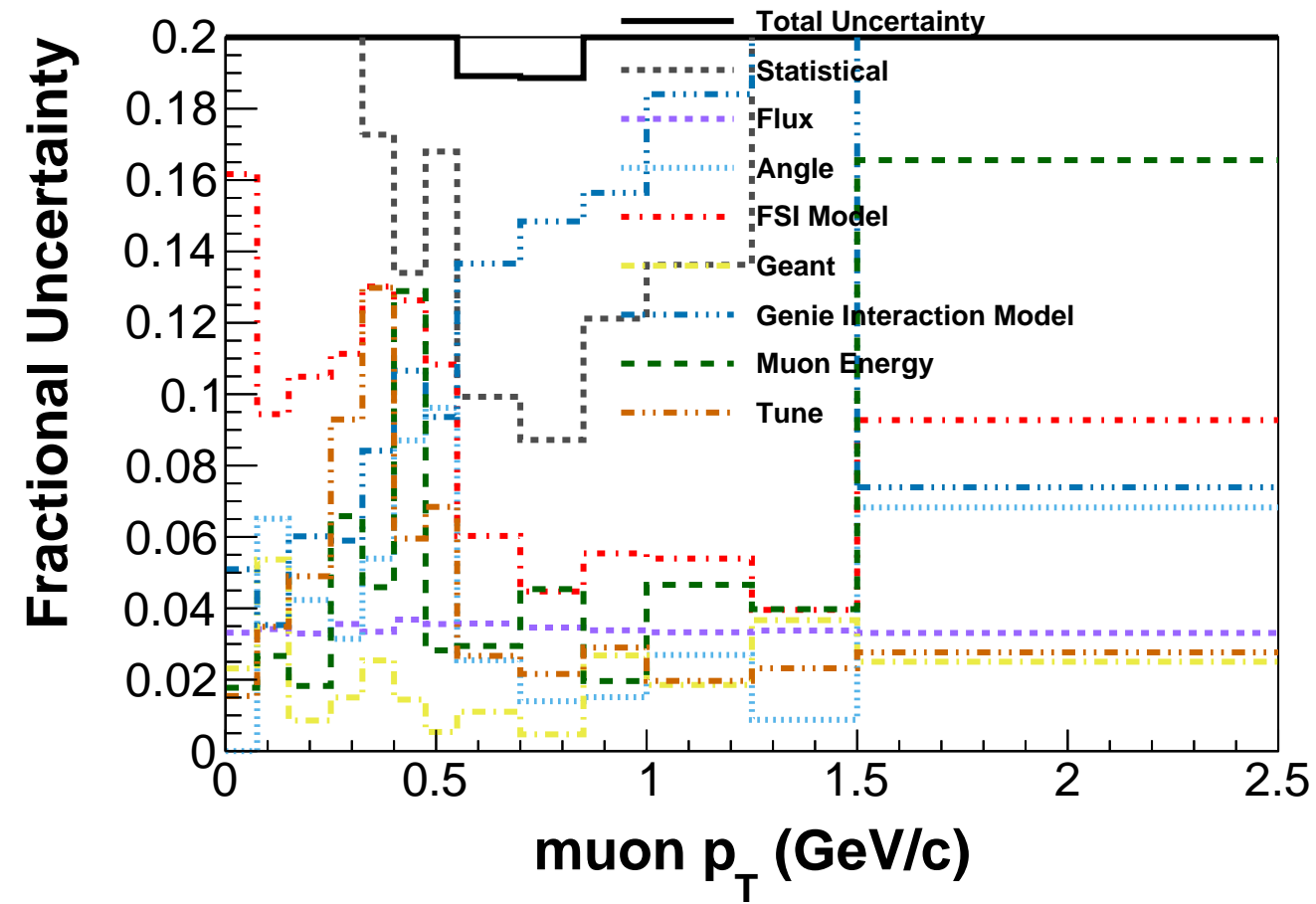
DATA_vs_MC



DATA_vs_MC

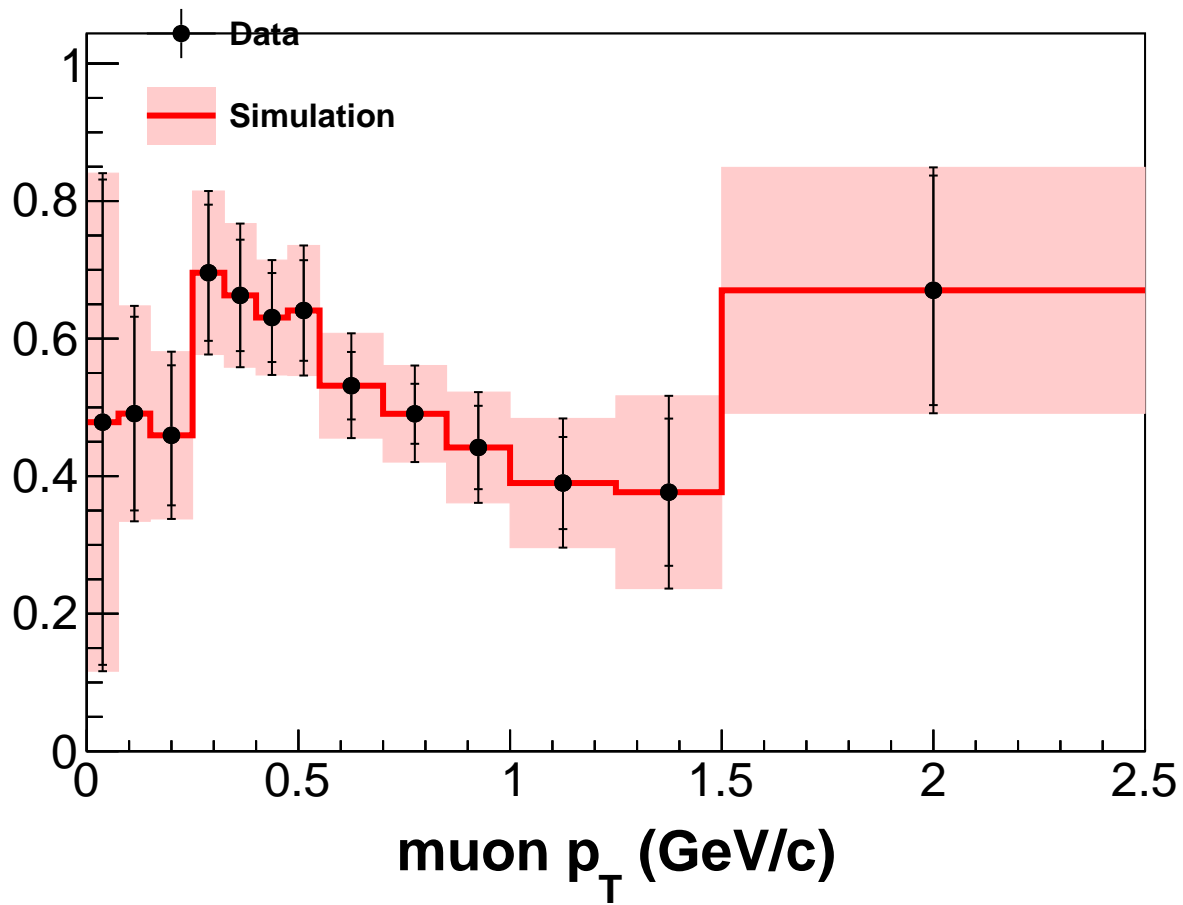
Data / MC

Raw MC Systematics

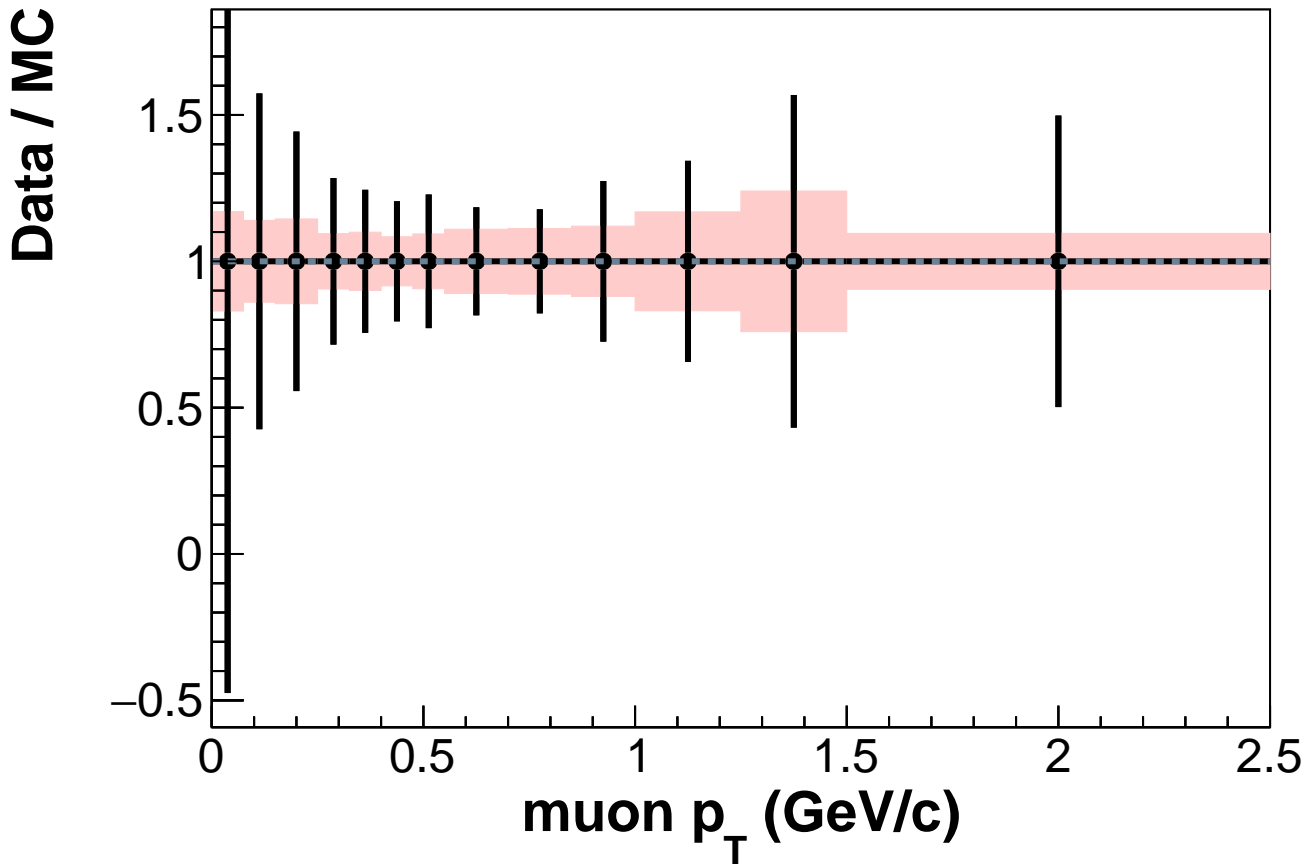


Signal Fraction

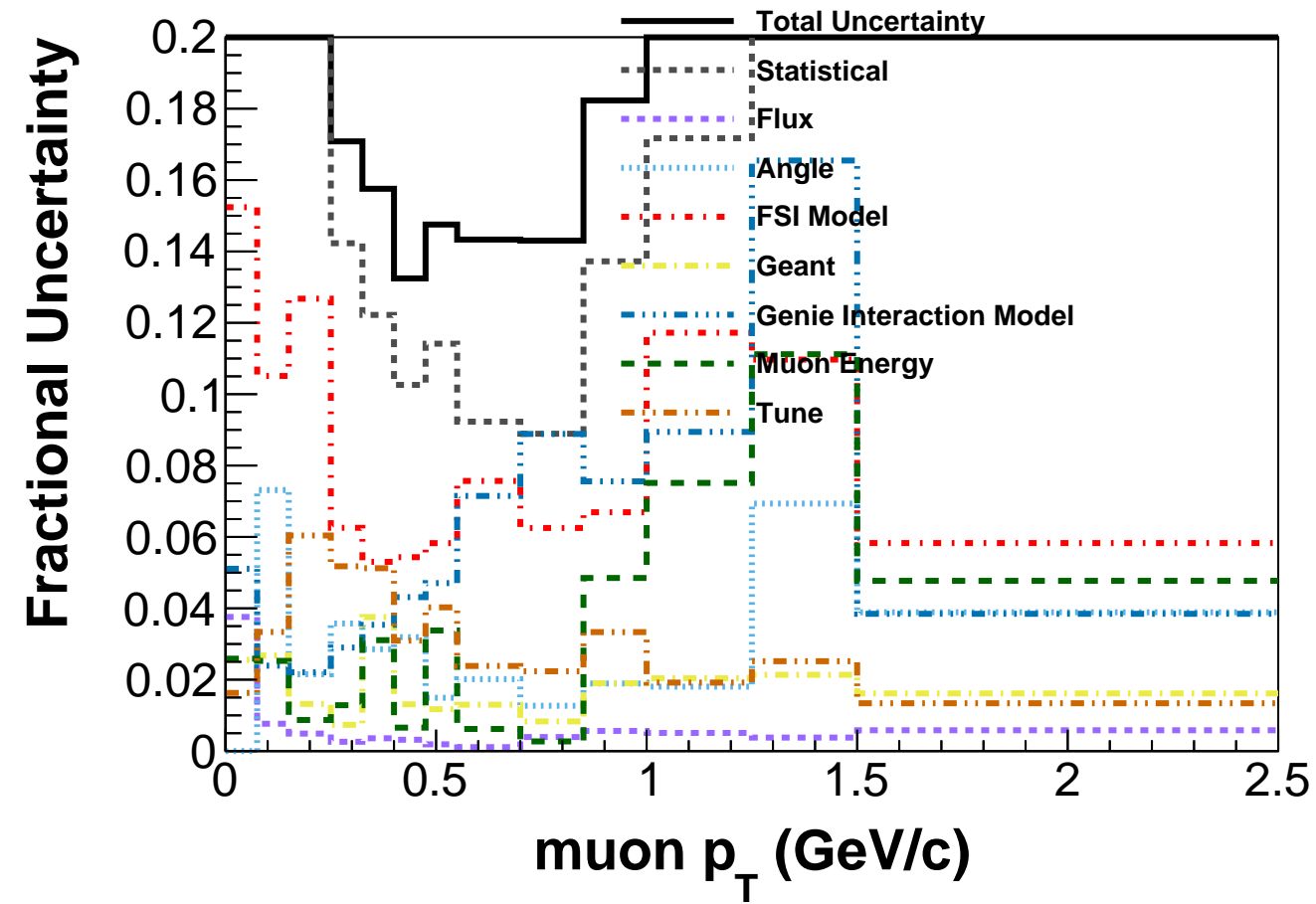
Counts per unit



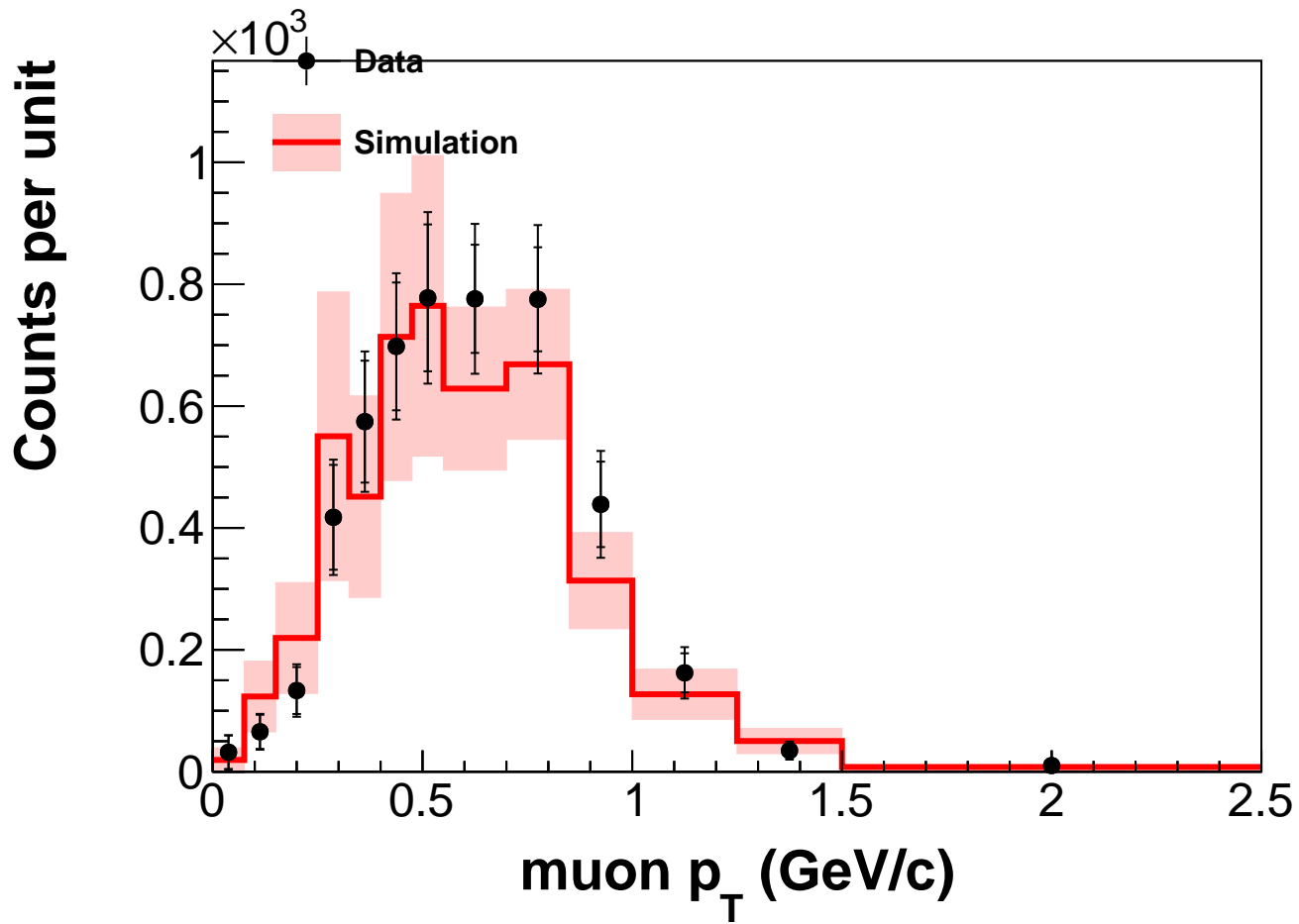
Signal Fraction



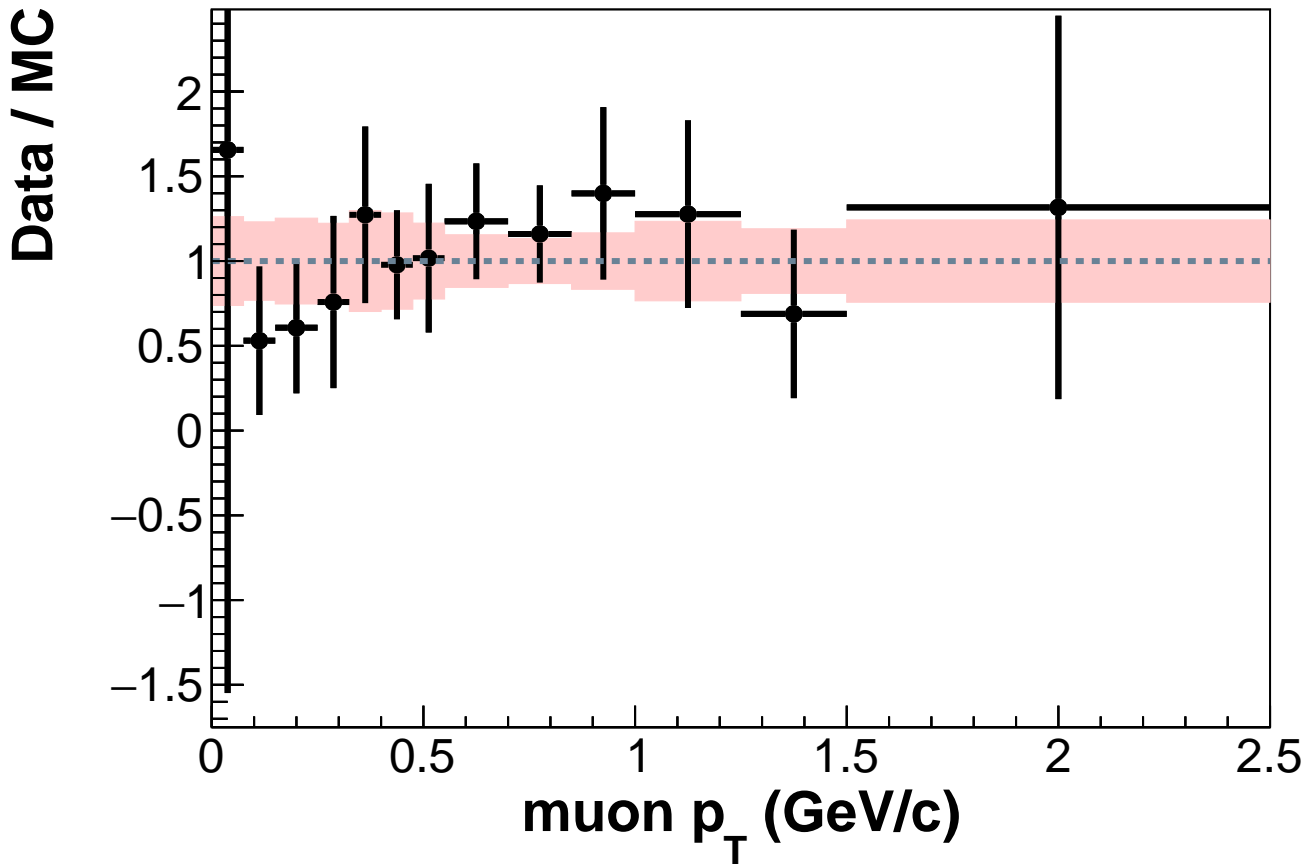
Signal Fraction Systematics



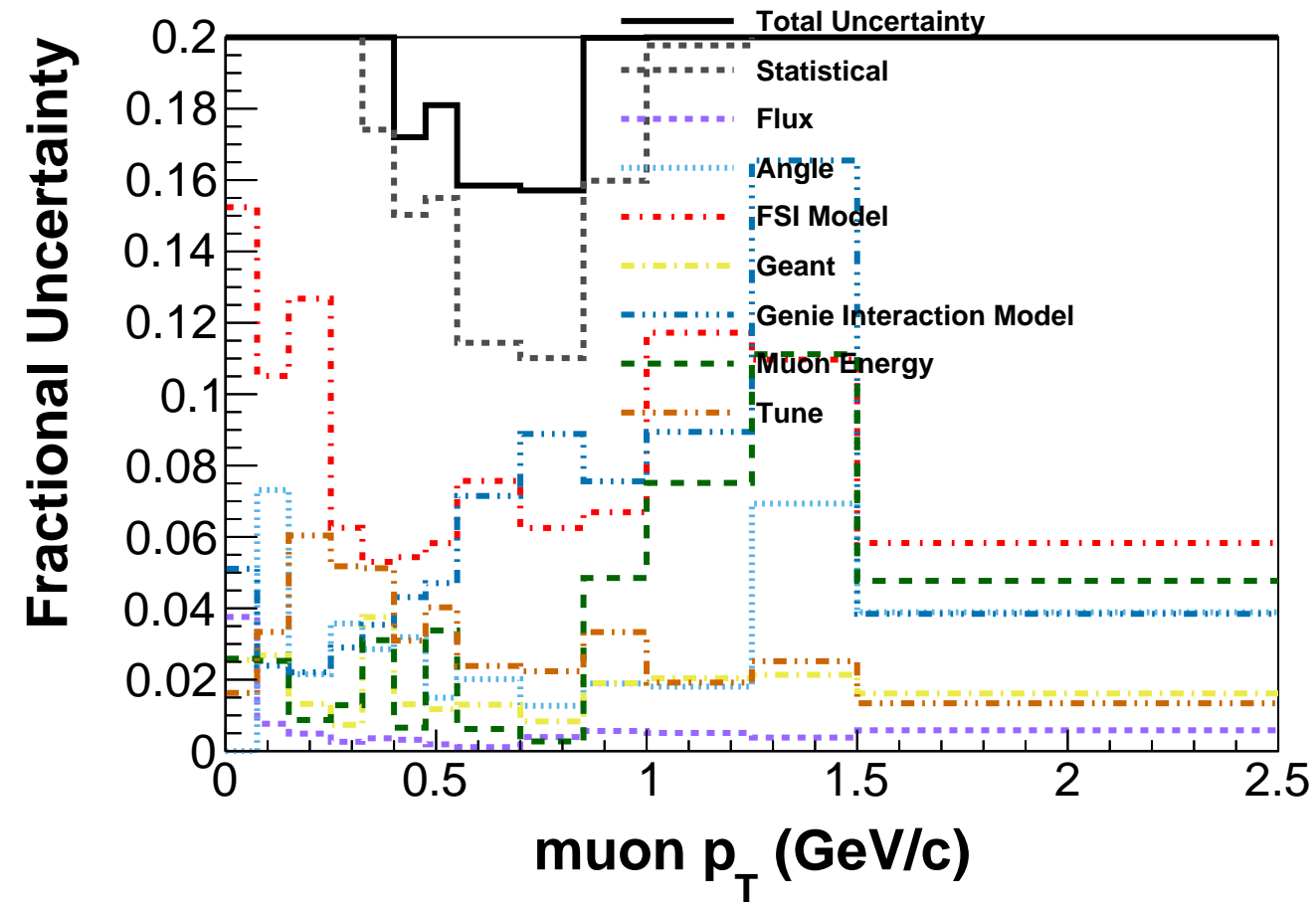
BKGsub vs. MC signal



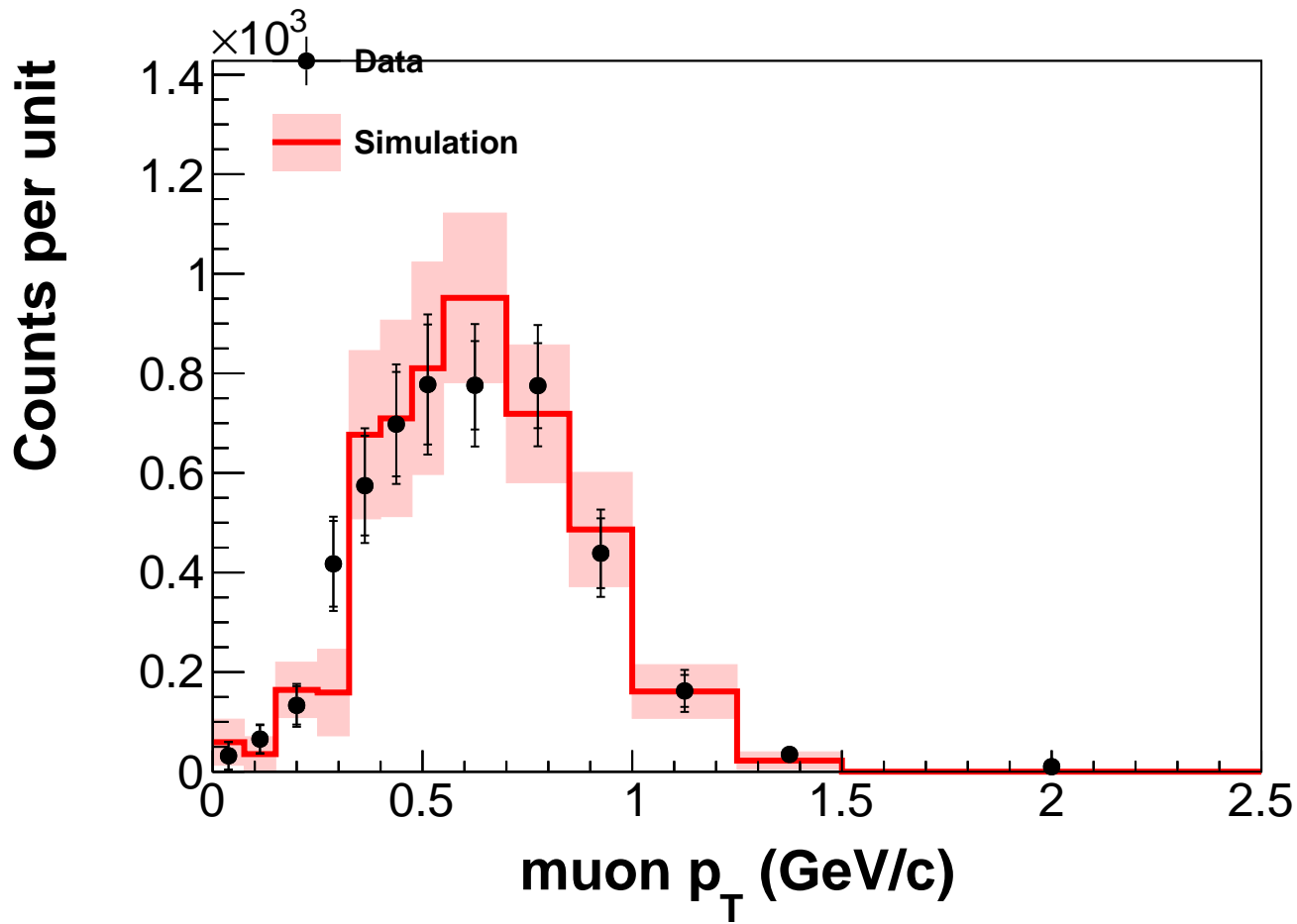
BKGsub vs. MC signal



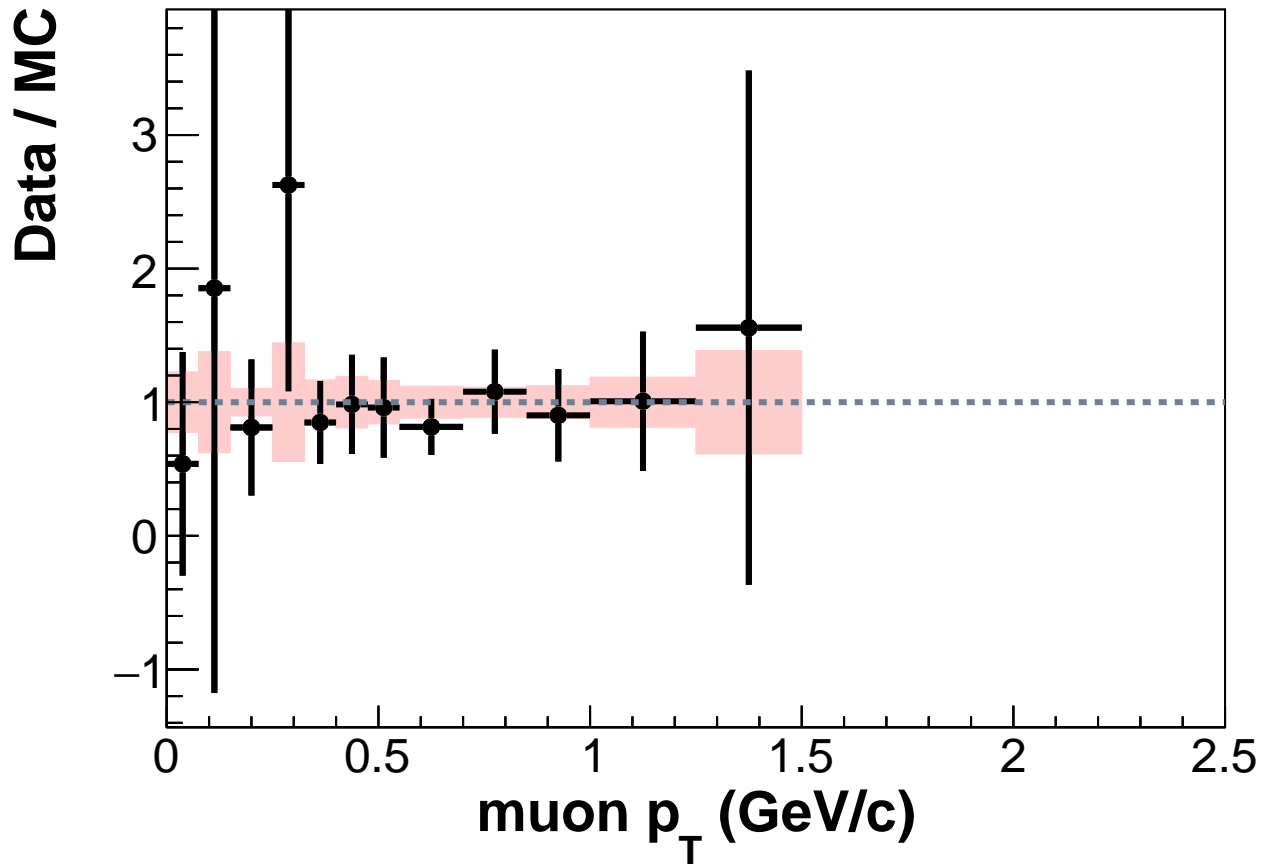
BKGsub Systematics



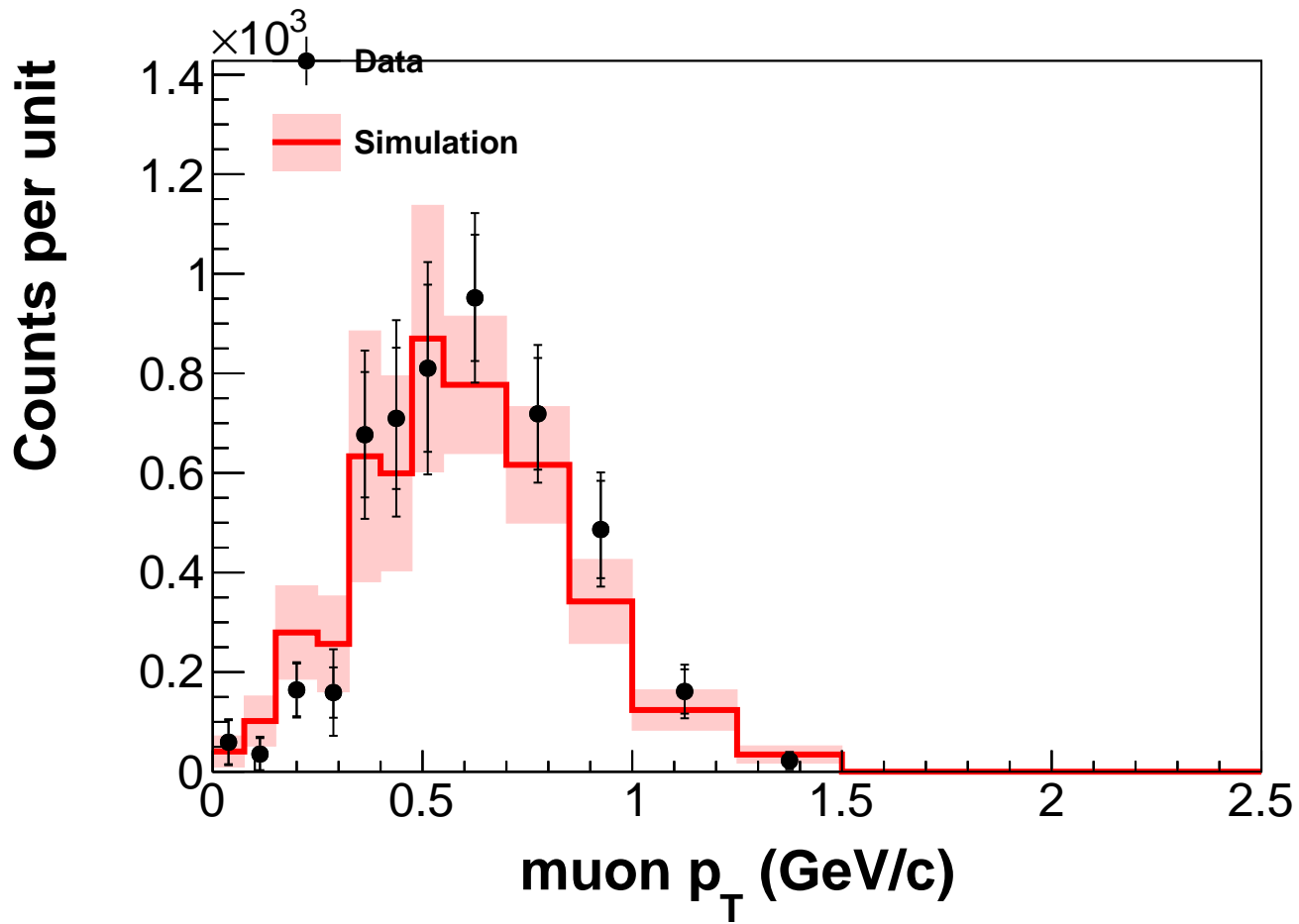
Data Before and After Unsmearing



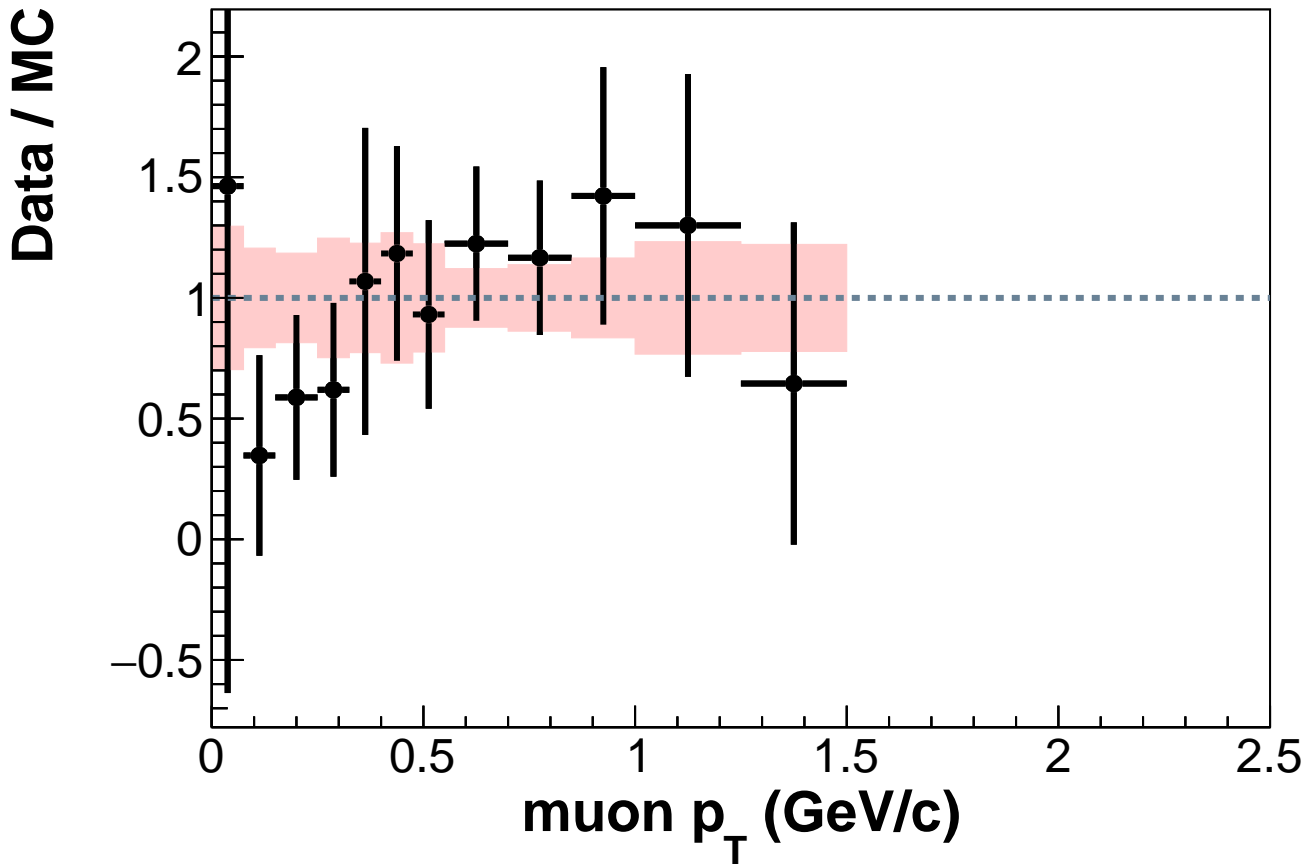
Data Before and After Unsmearing



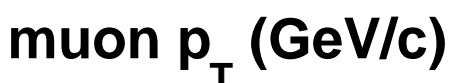
Unsmeared Data Compared to Selected MC



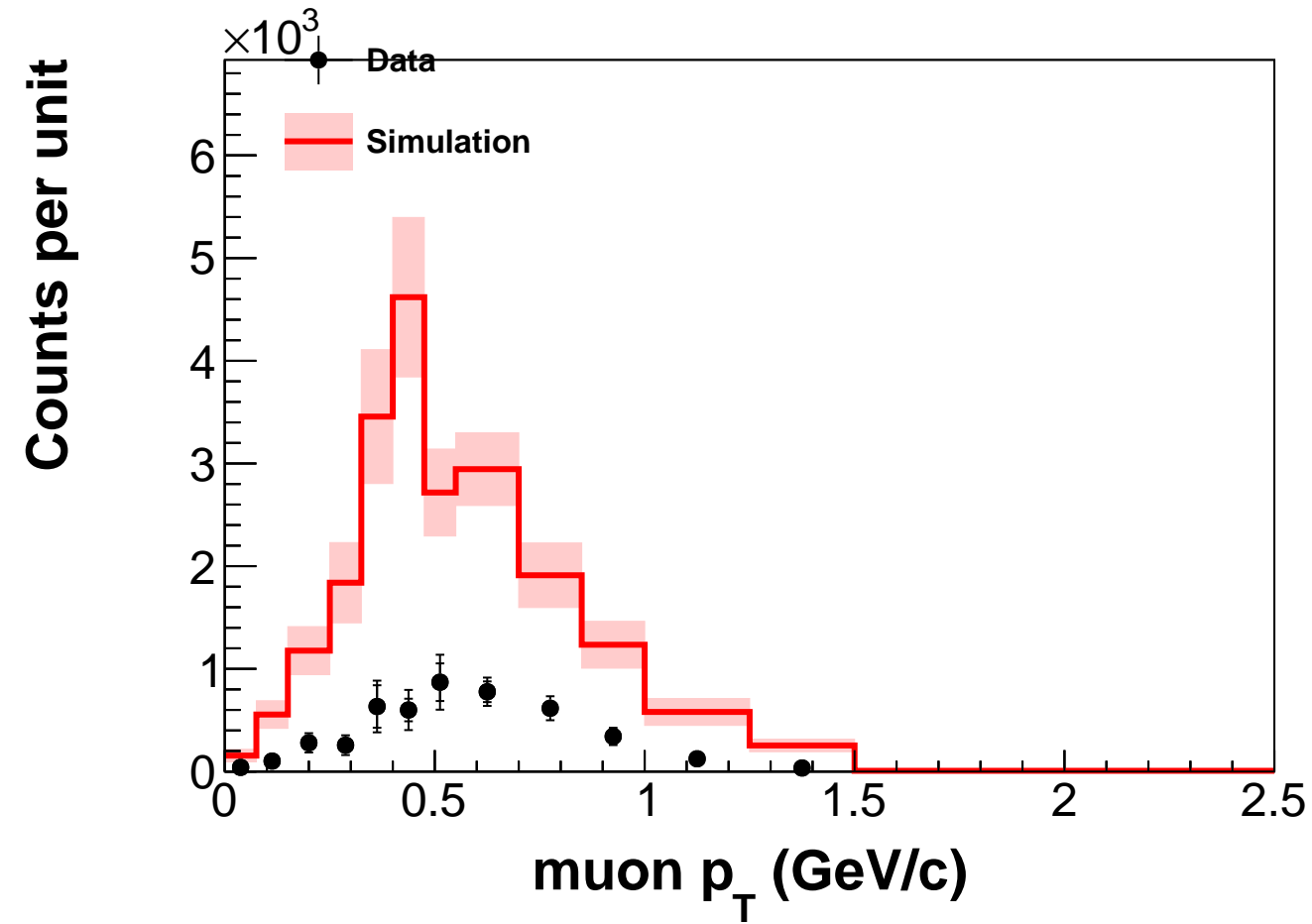
Unsmeared Data Compared to Selected MC



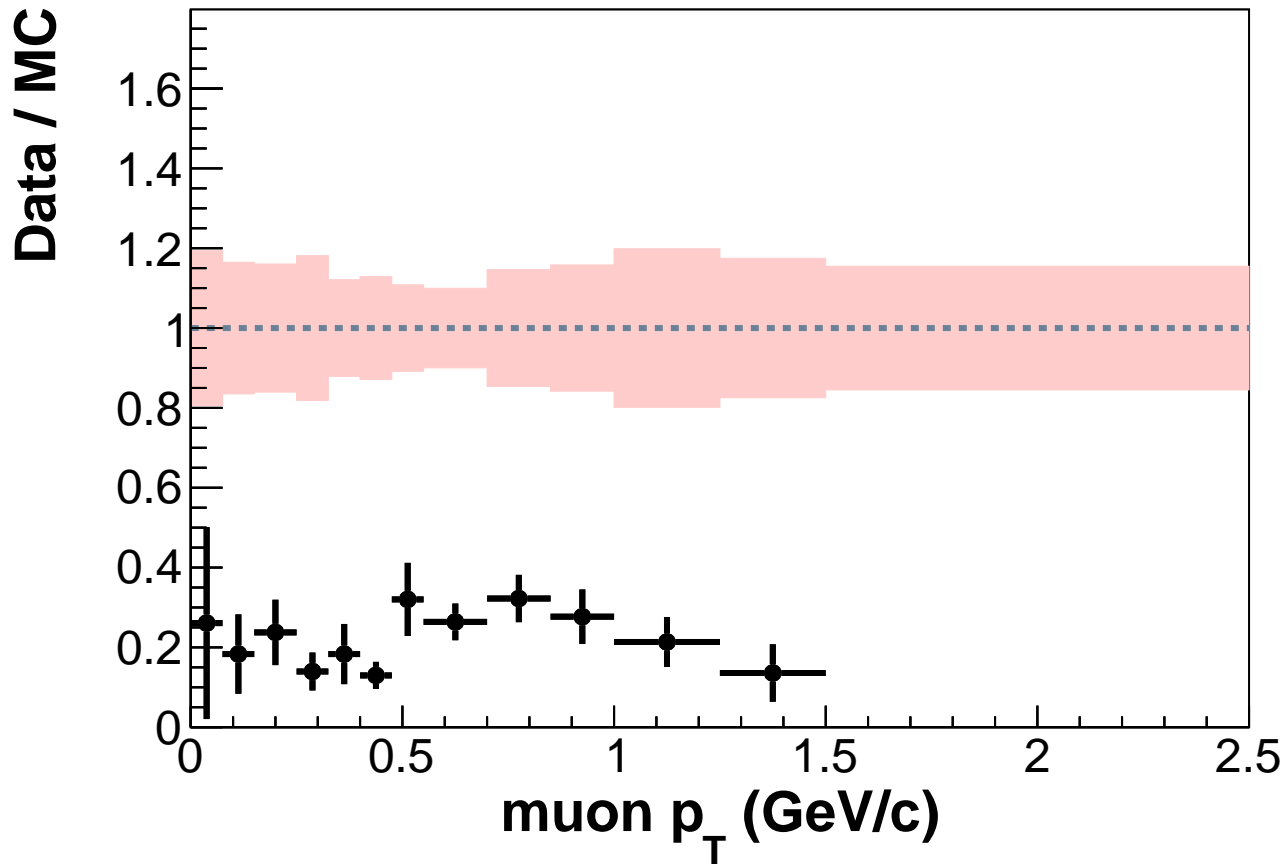
Unsmeared Data Systematics



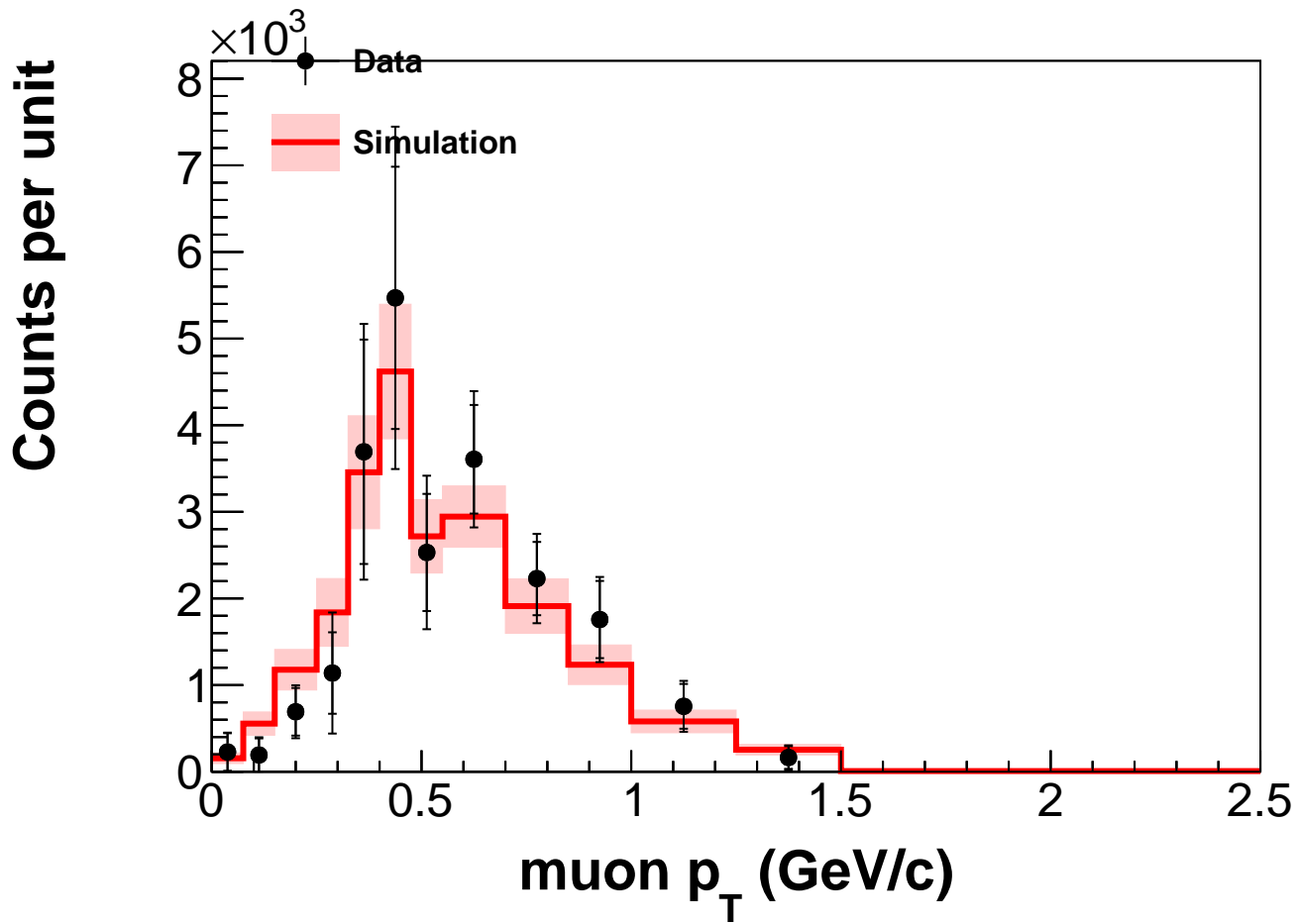
efficiency: selected and true



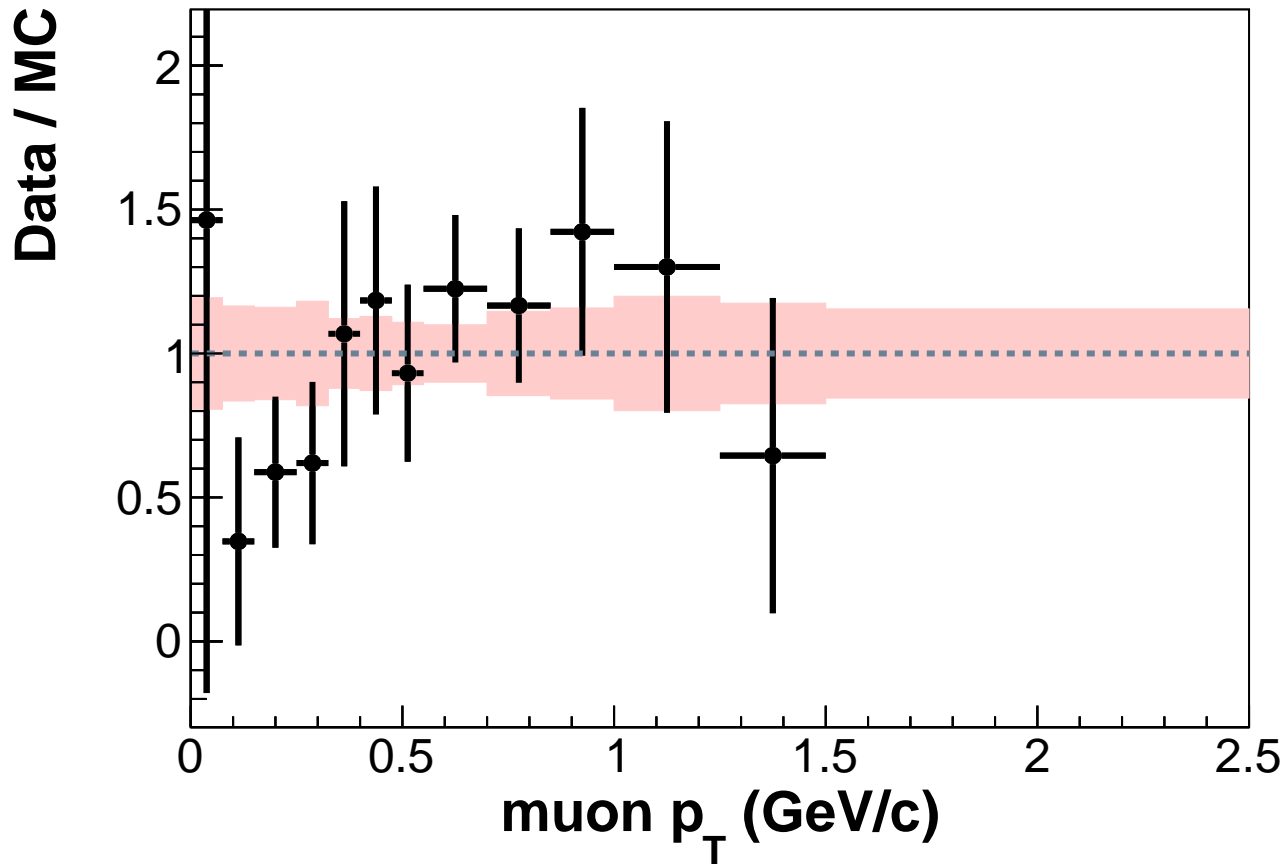
efficiency: selected and true



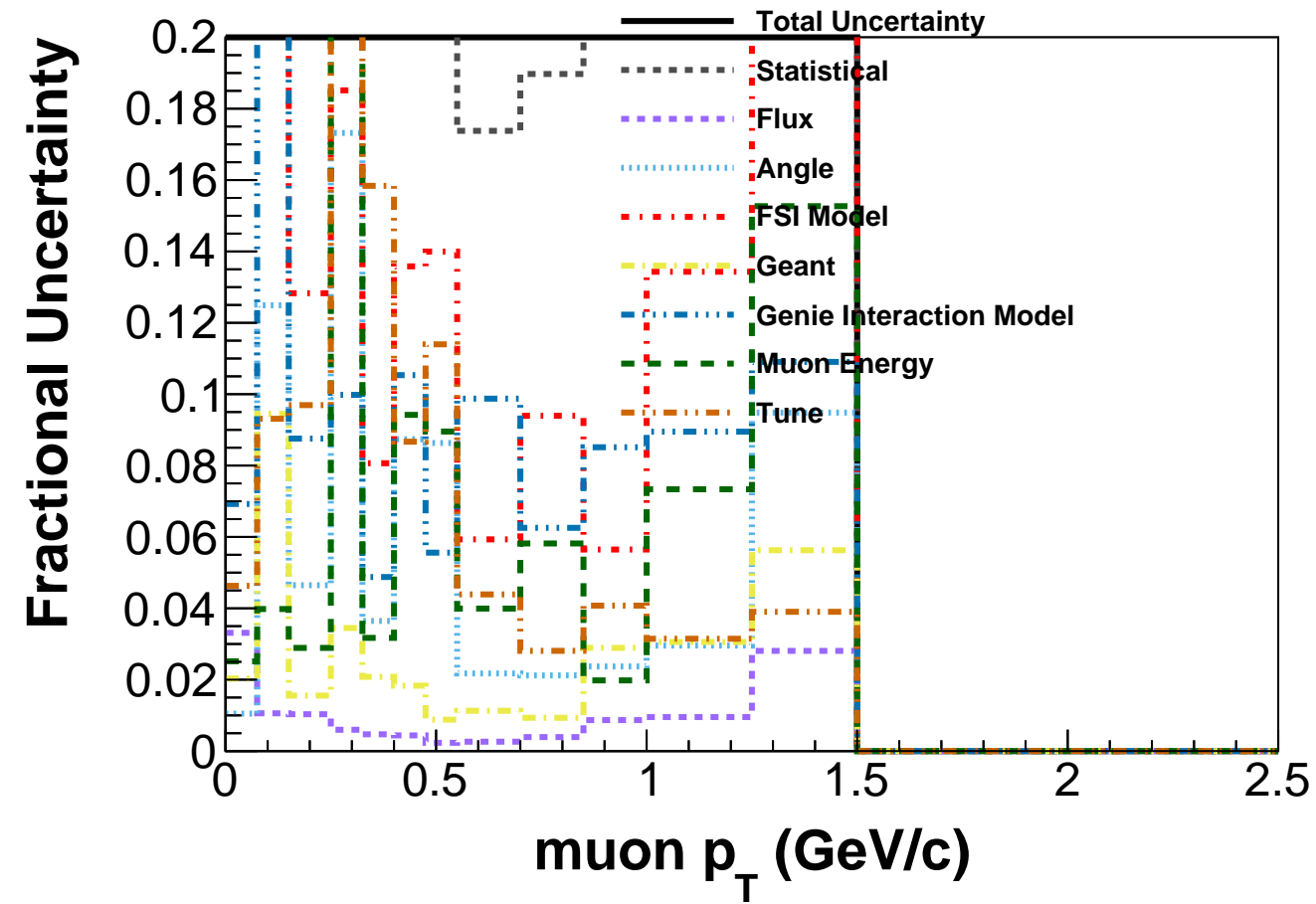
effcorr data vs truth



effcorr data vs truth

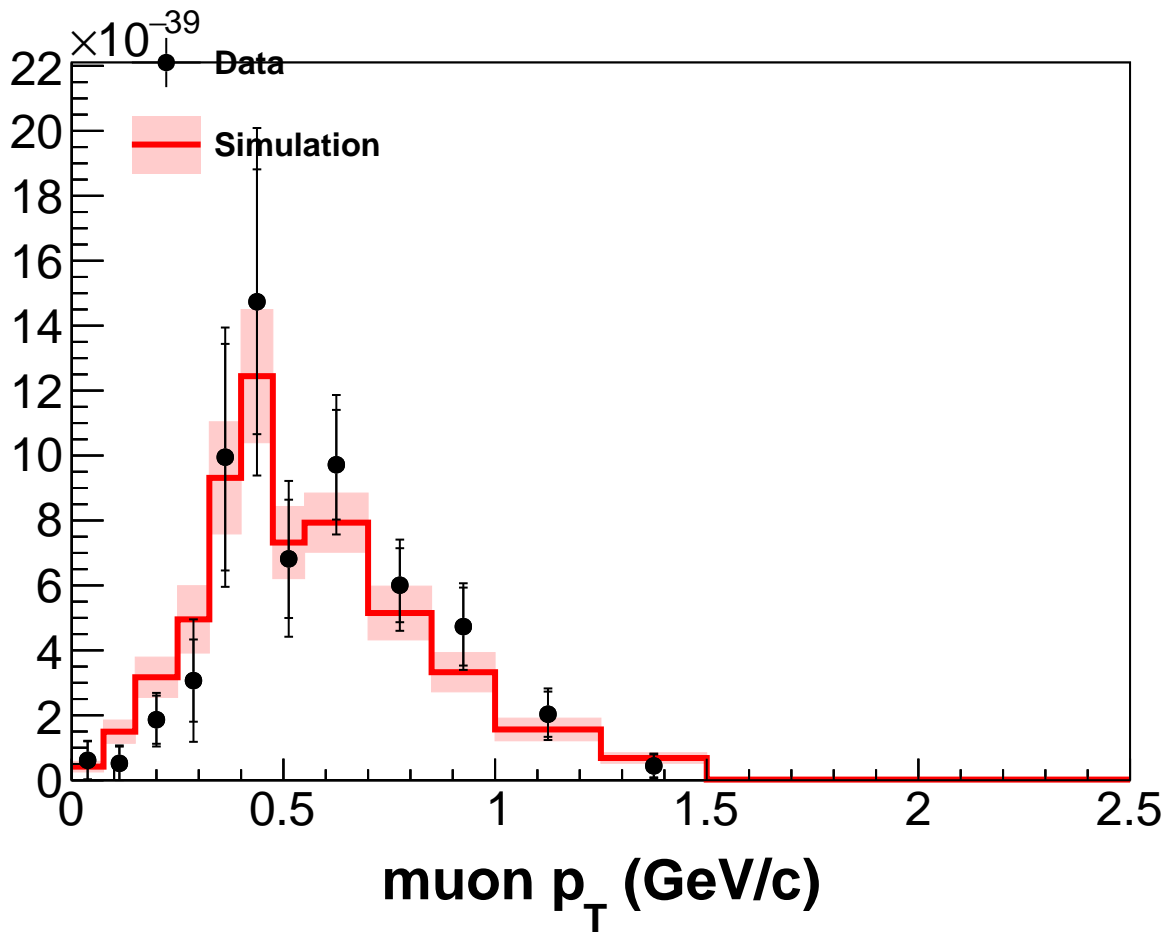


Efficiency Corrected Data Systematics



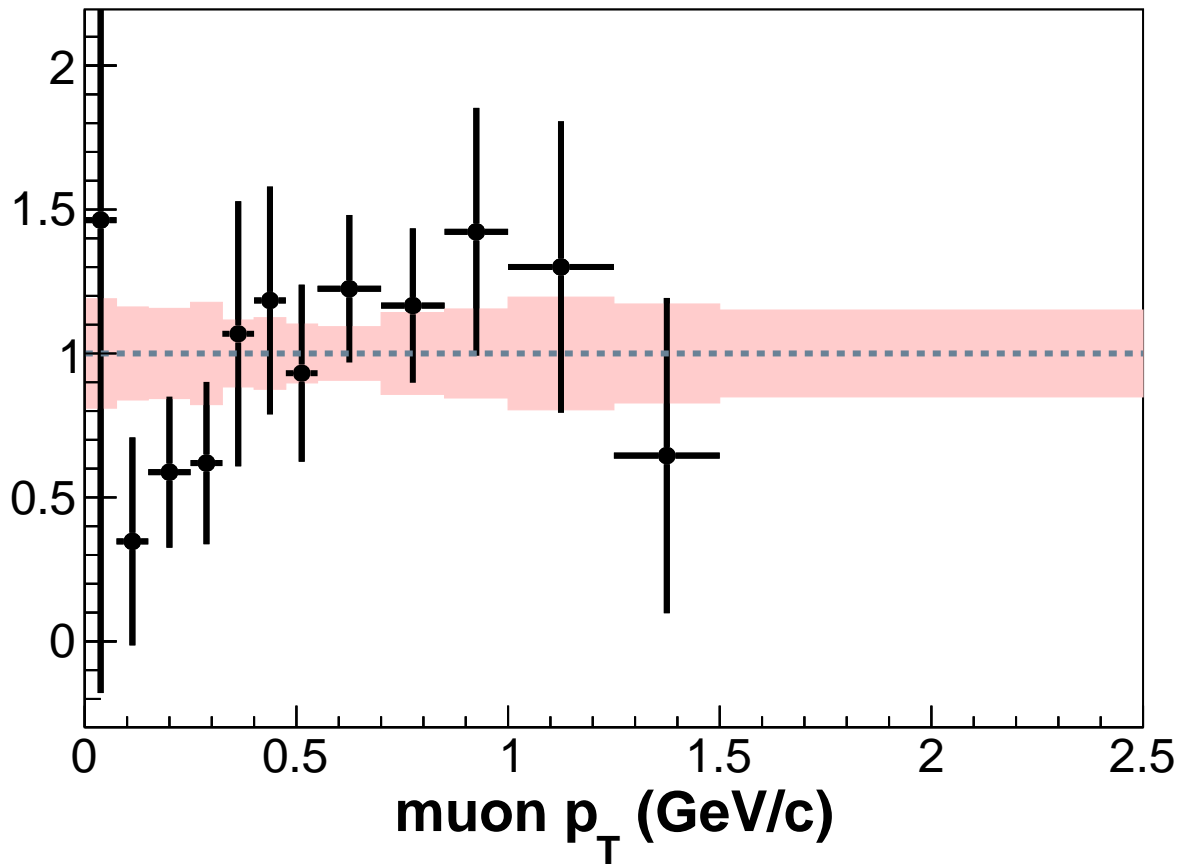
sigma

Counts per unit

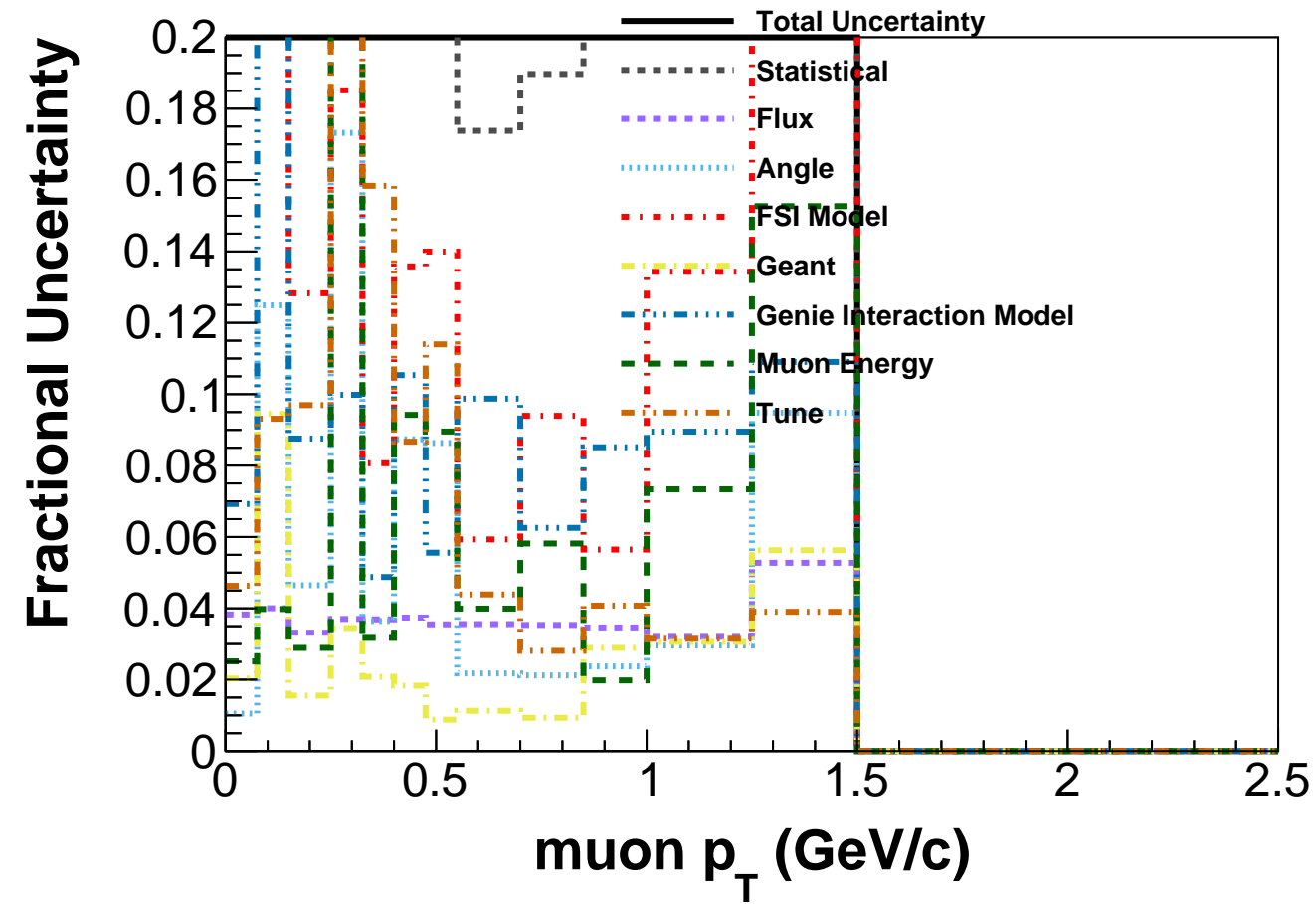


sigma

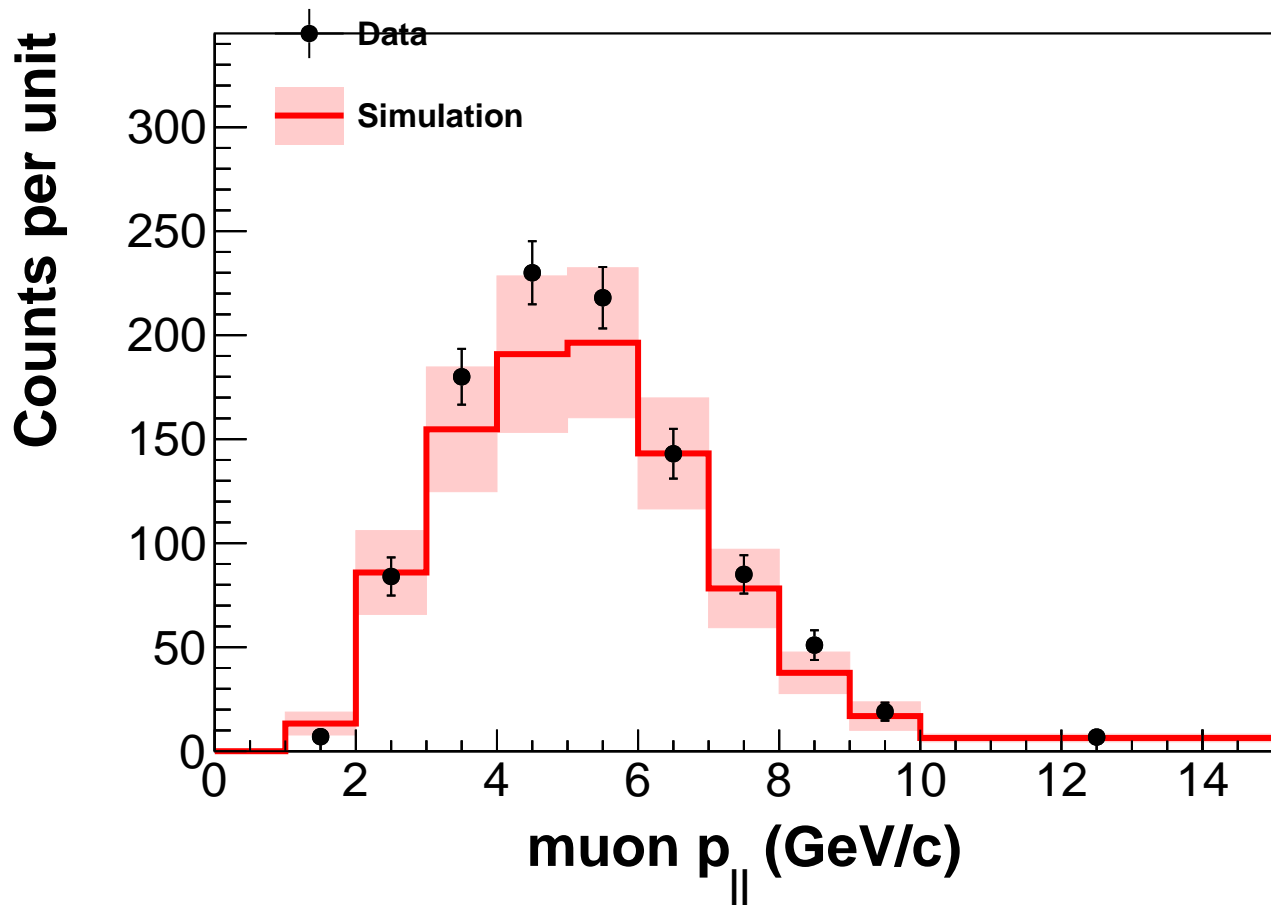
Data / MC



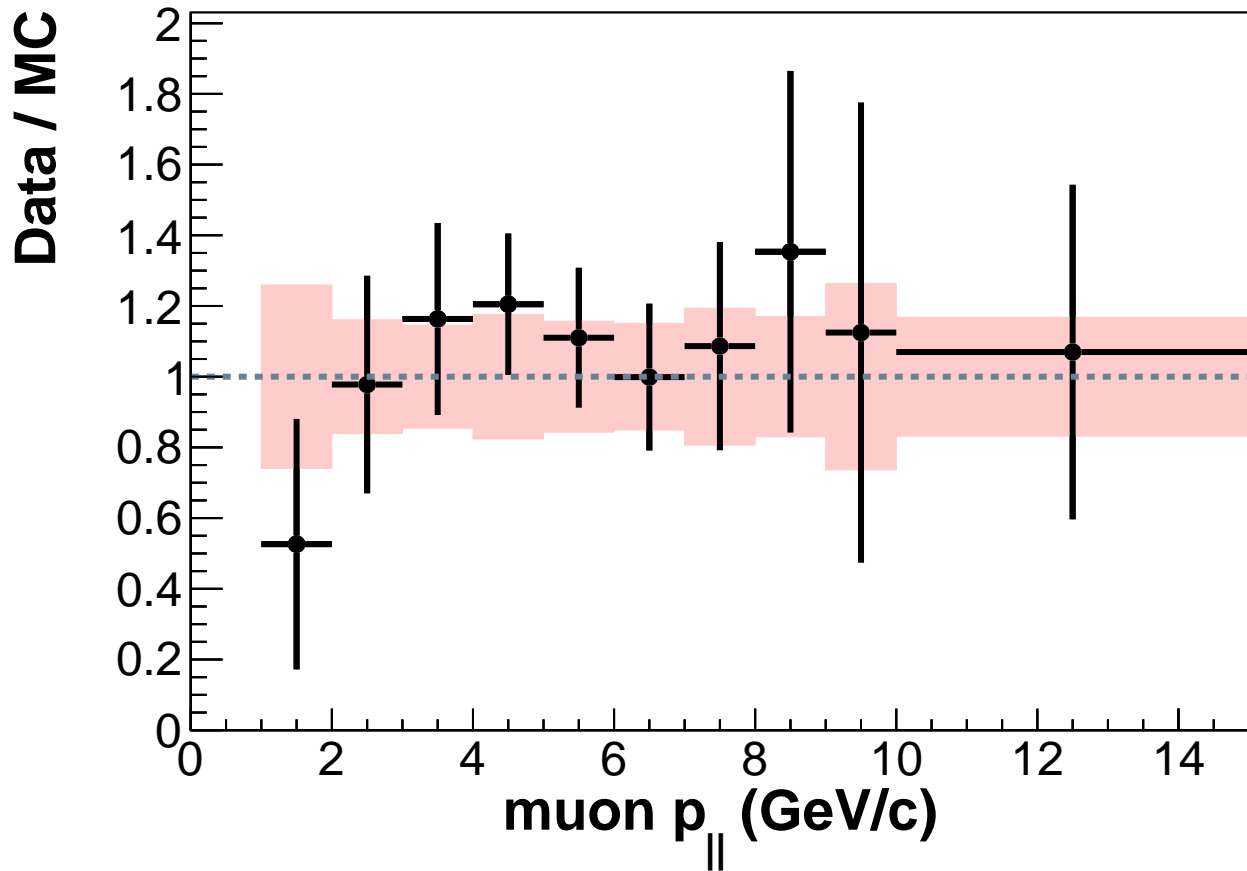
Cross Section Systematics



DATA_vs_MC



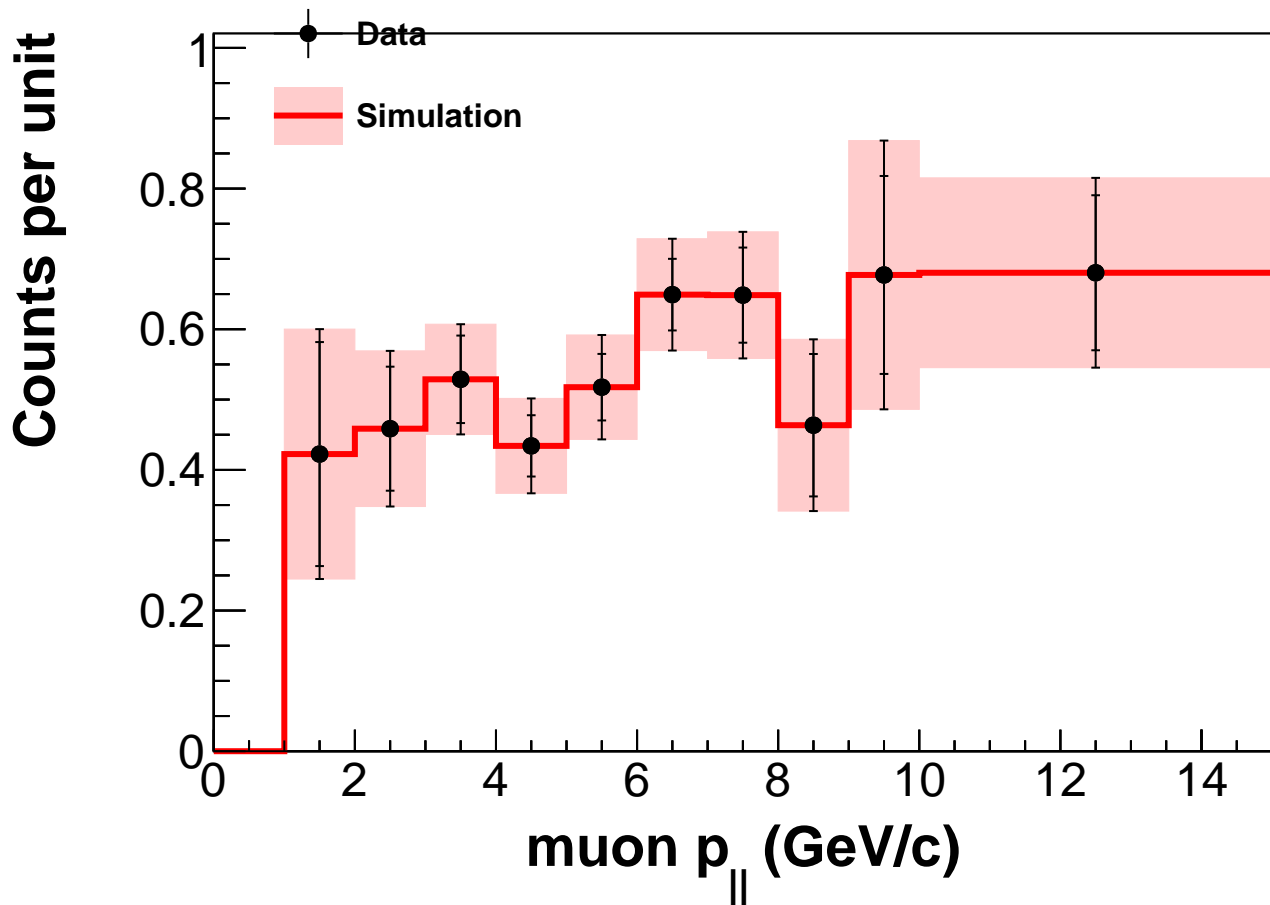
DATA_vs_MC



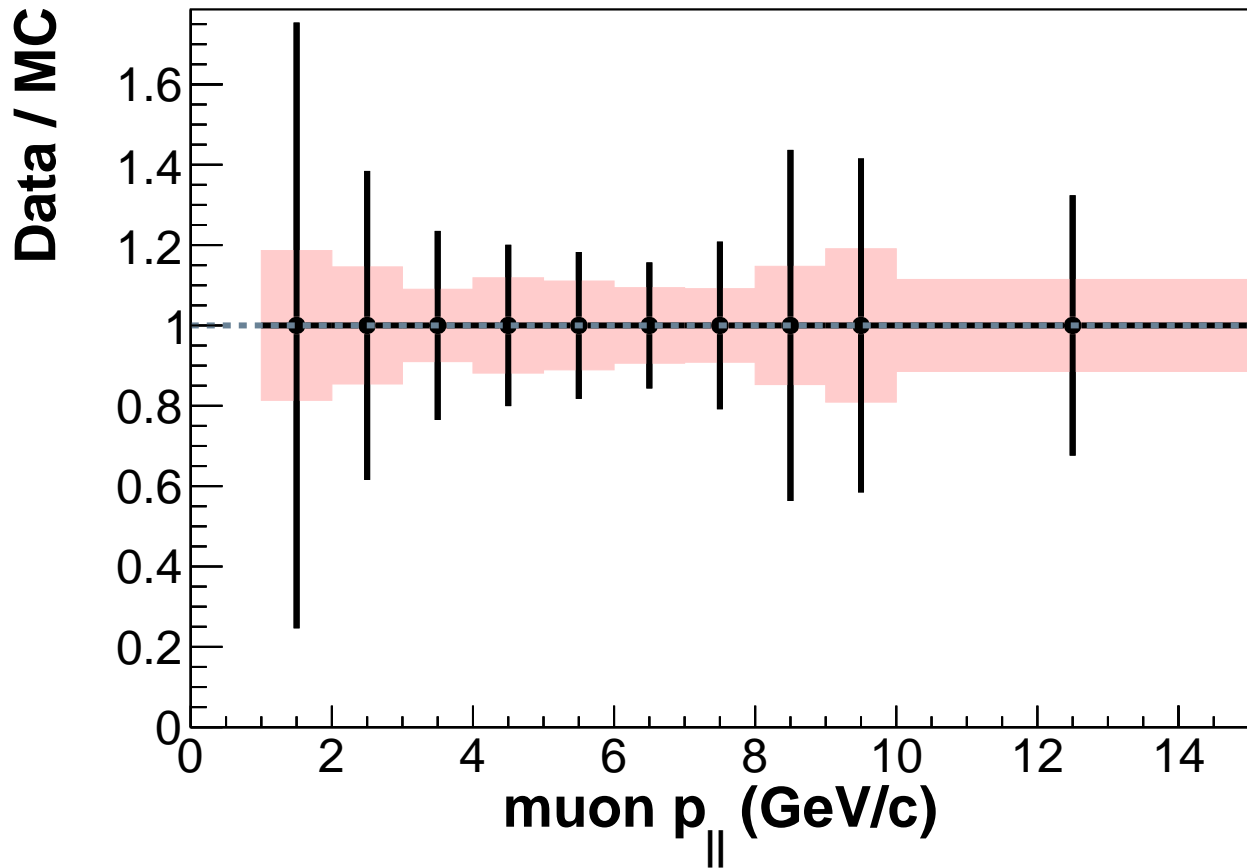
Raw MC Systematics



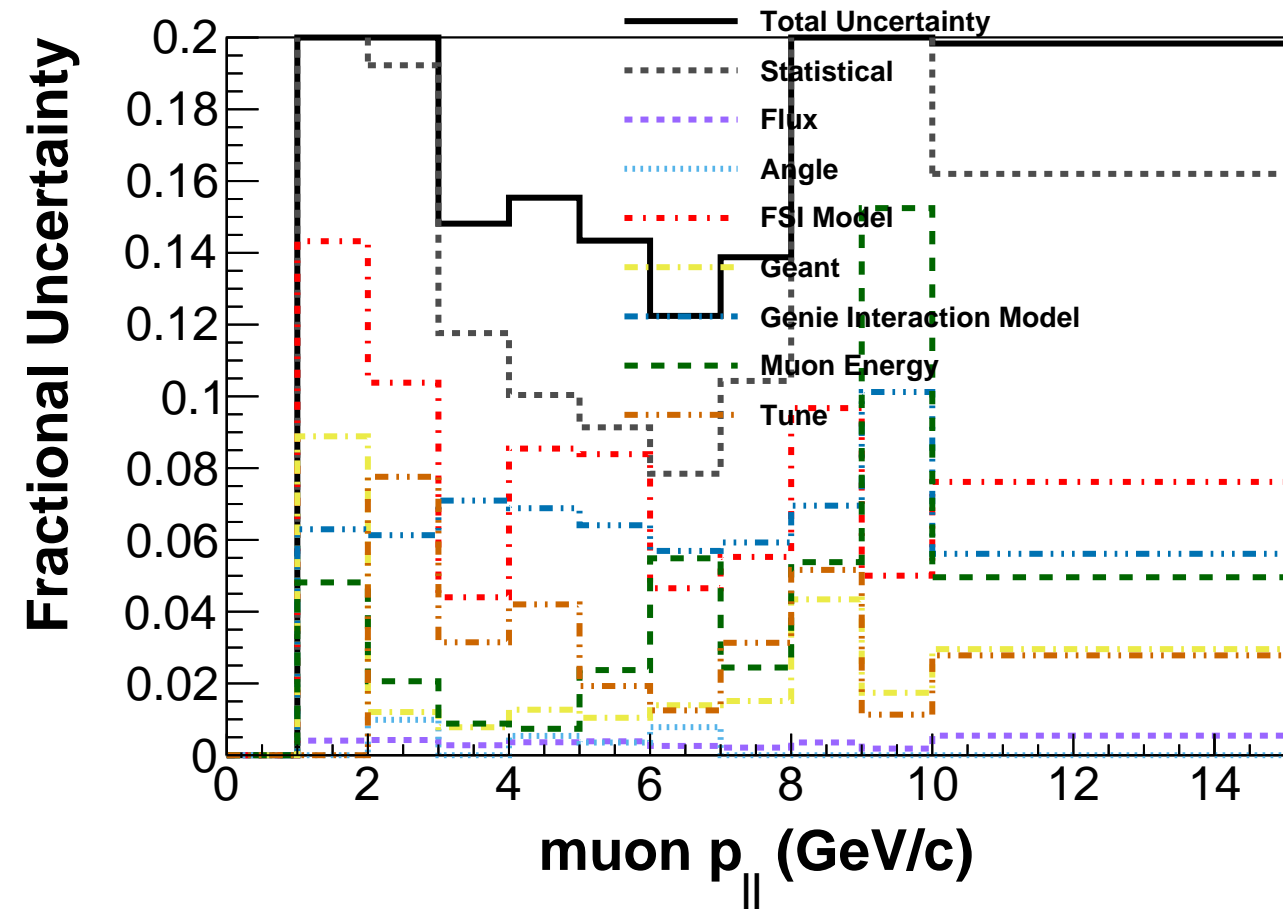
Signal Fraction



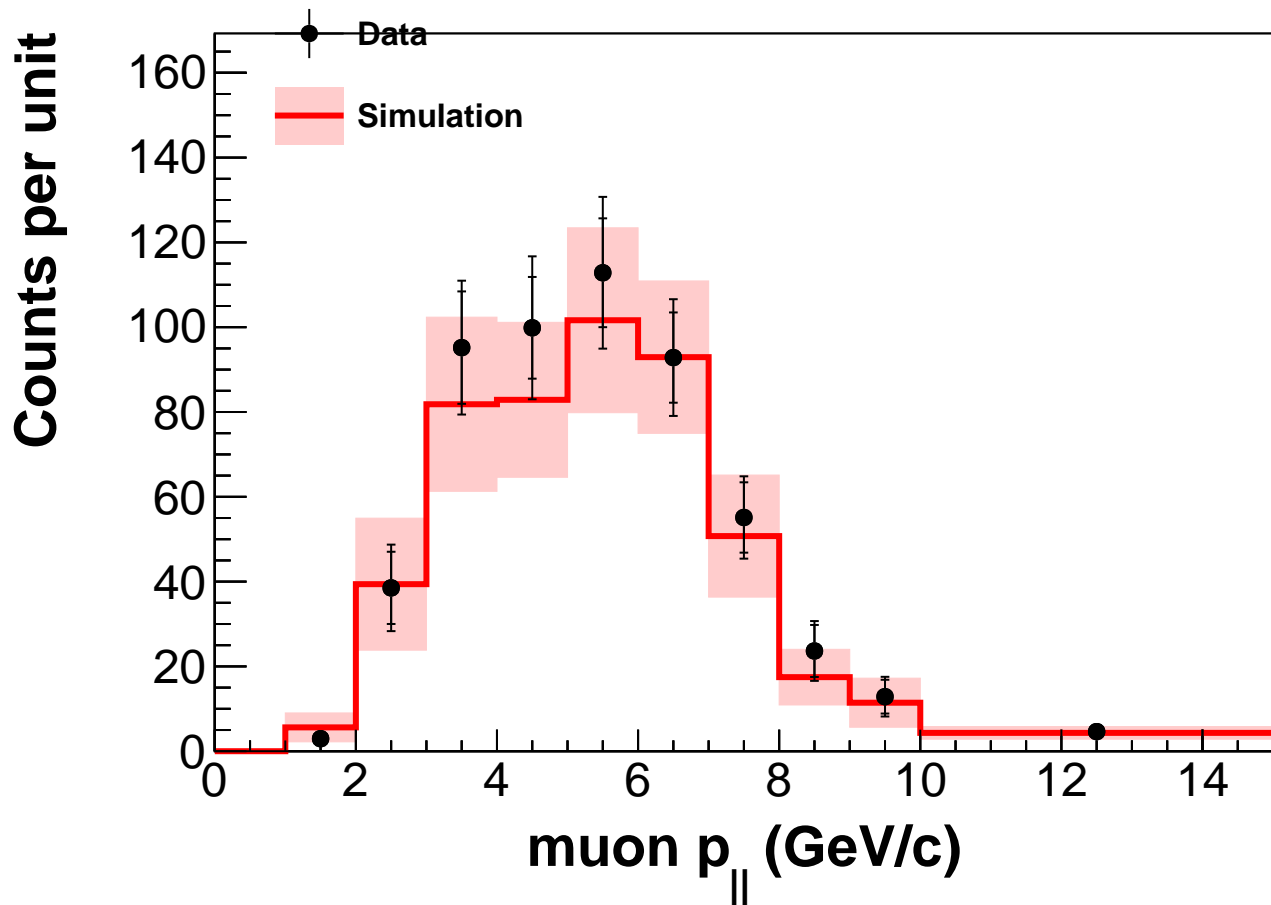
Signal Fraction



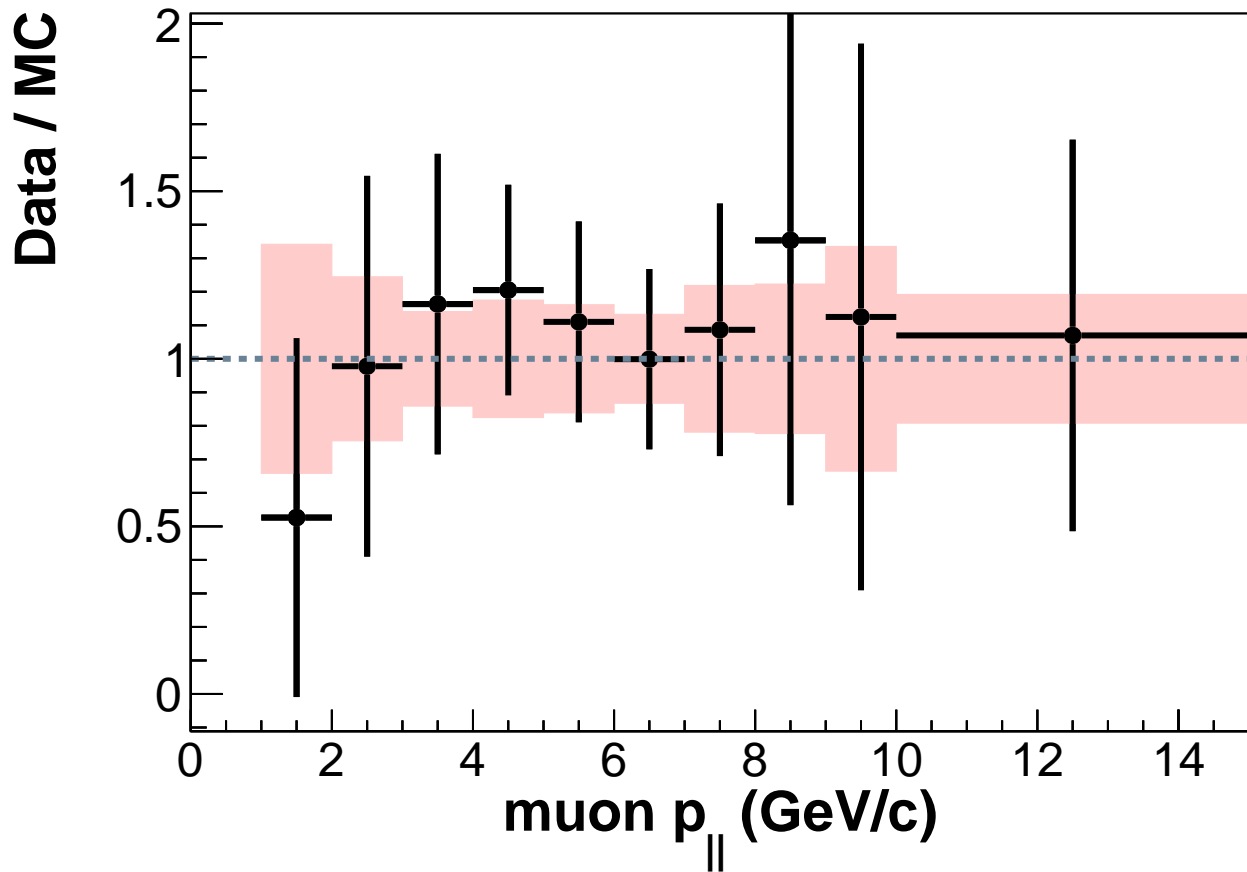
Signal Fraction Systematics



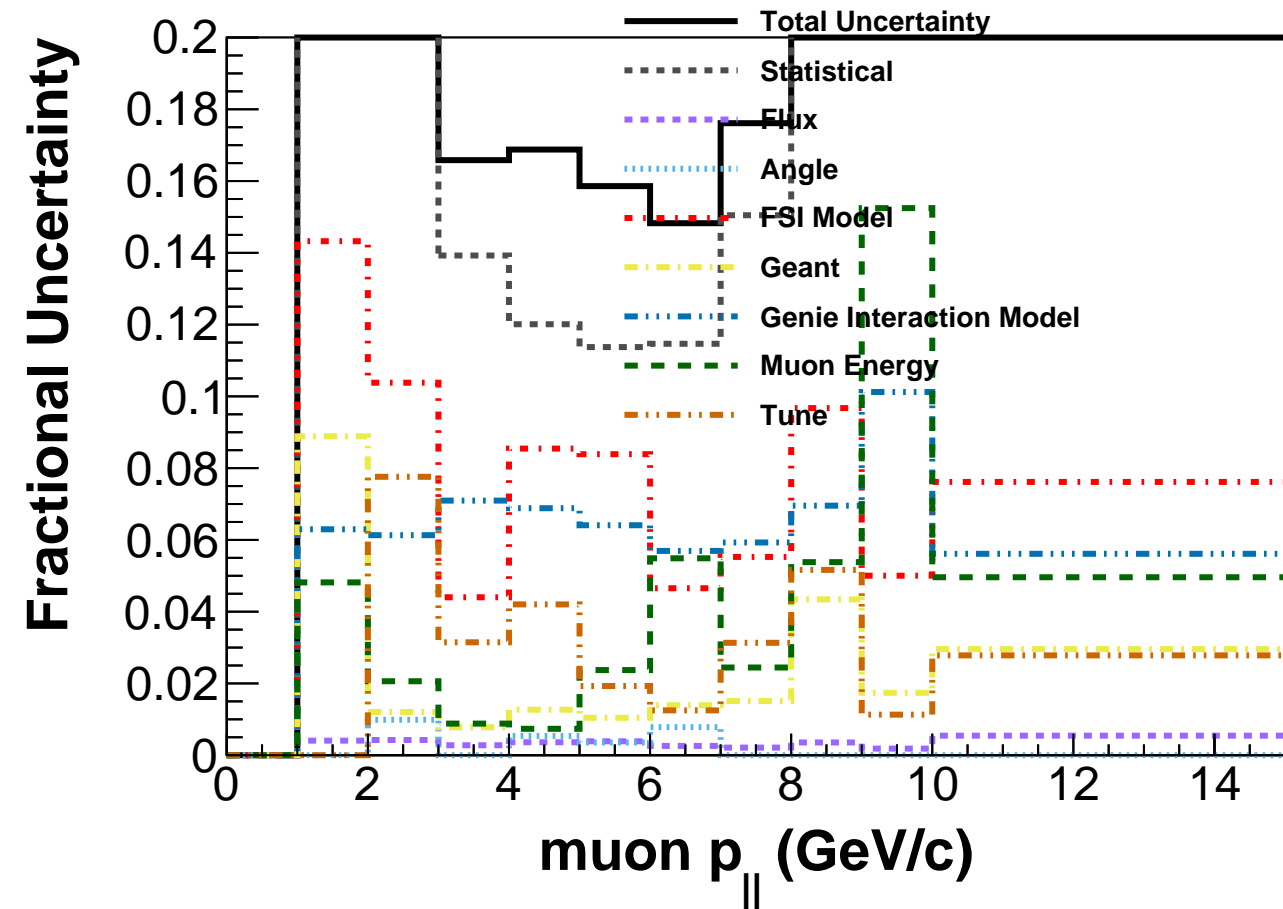
BKGsub vs. MC signal



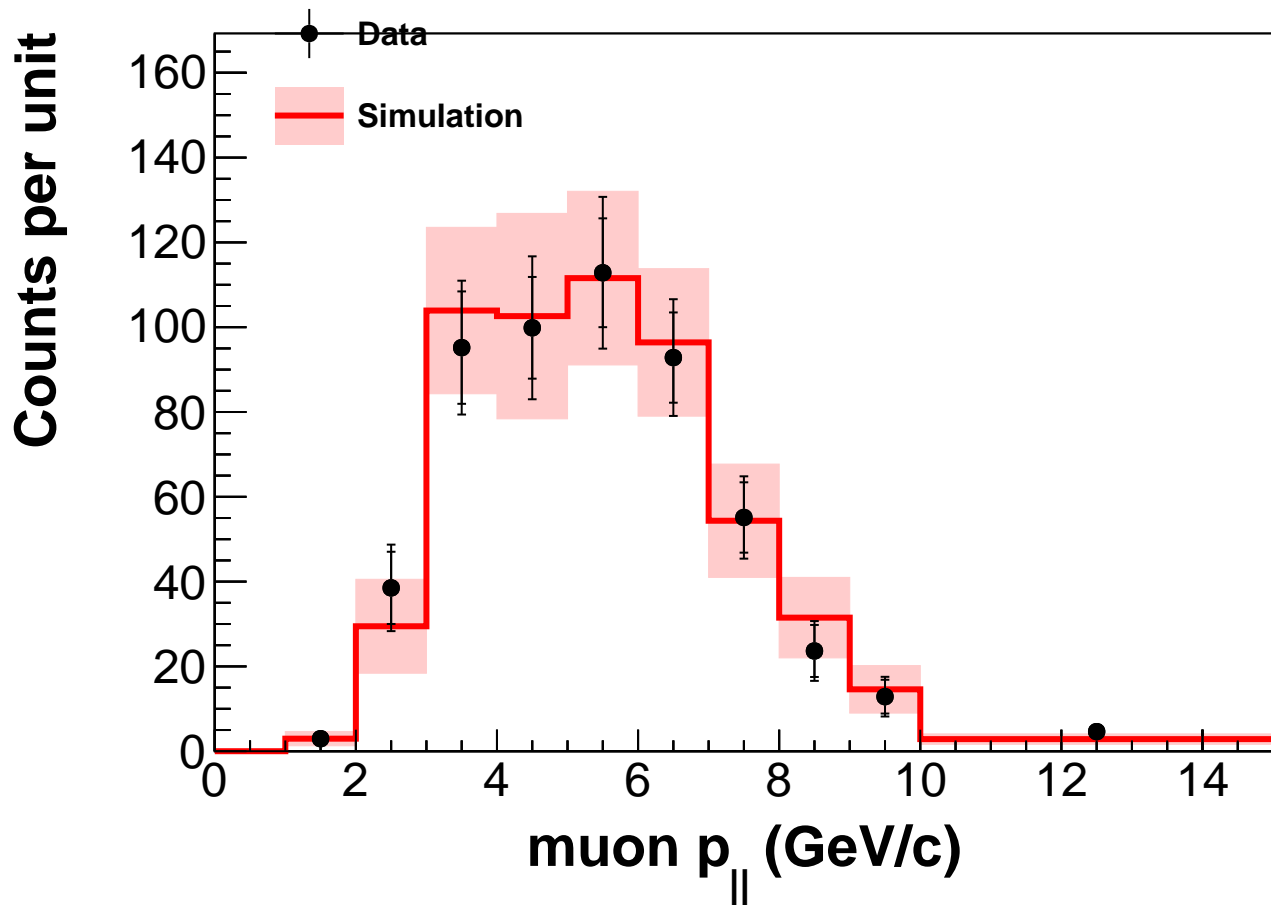
BKGsub vs. MC signal



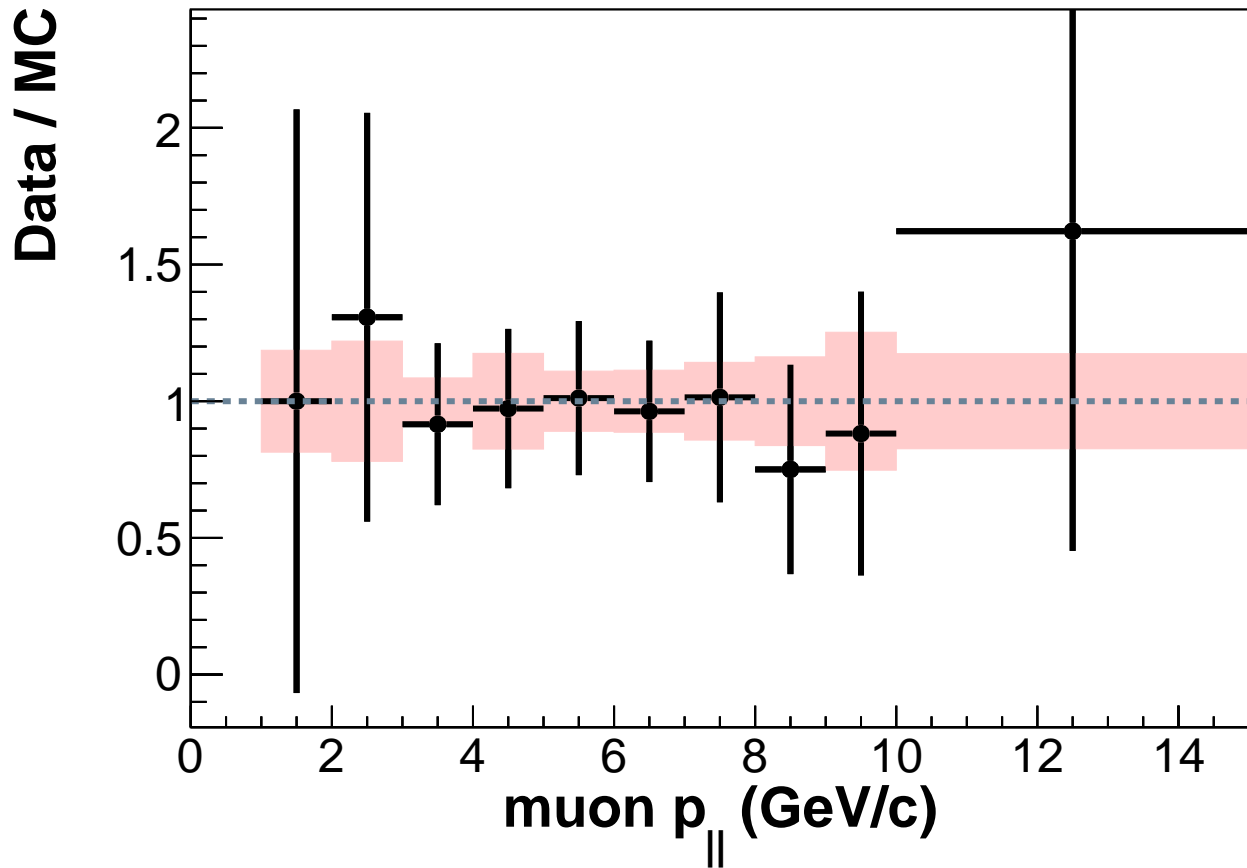
BKGsub Systematics



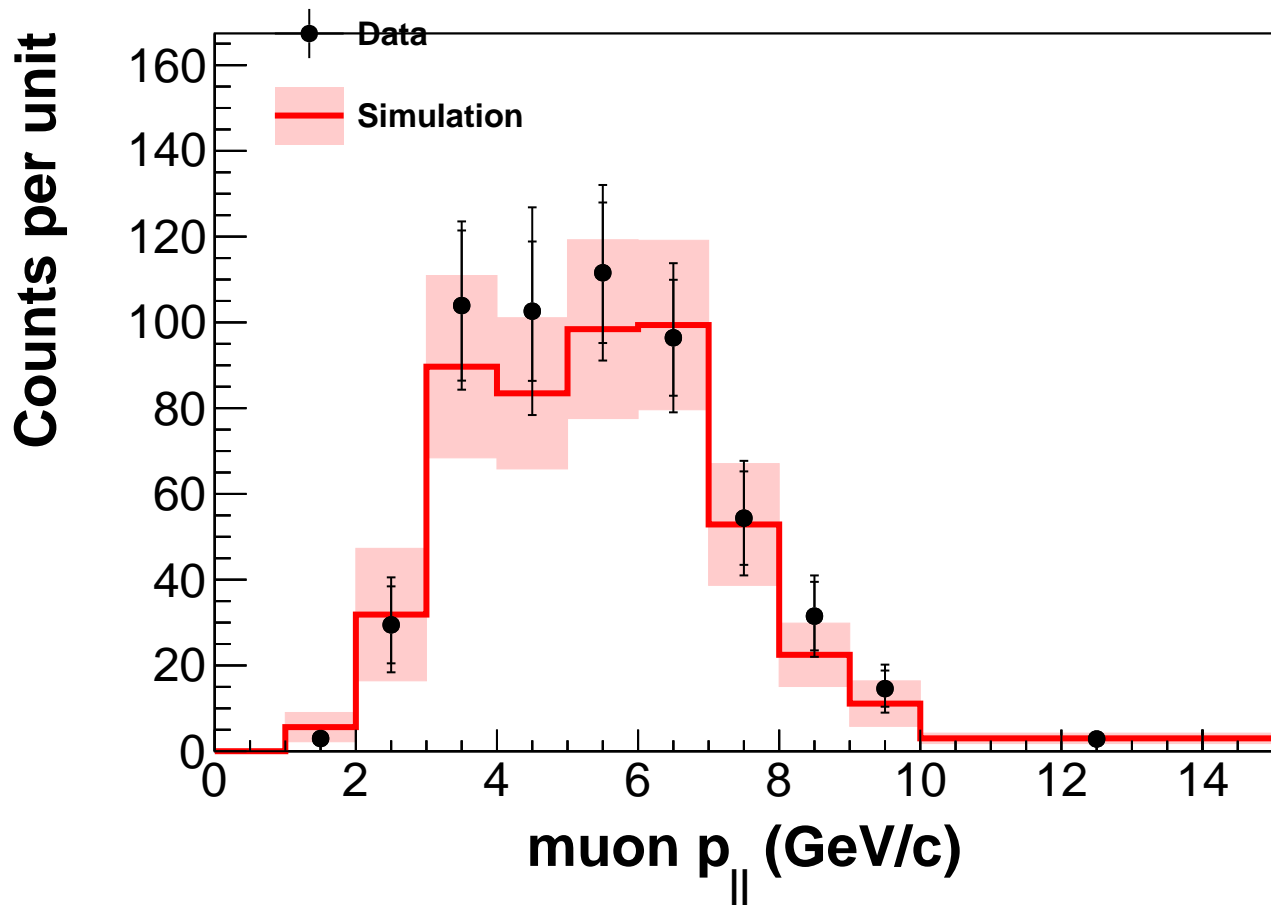
Data Before and After Unsmearing



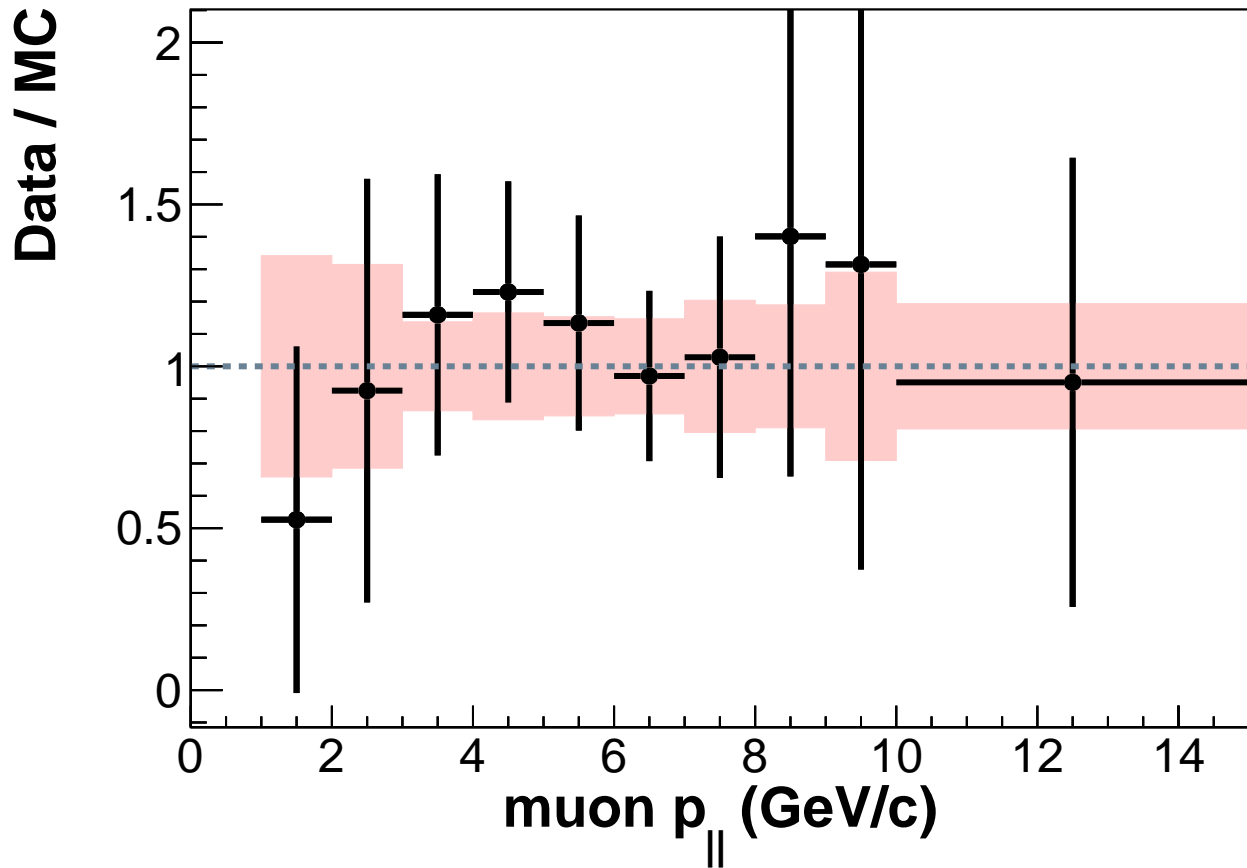
Data Before and After Unsmearing



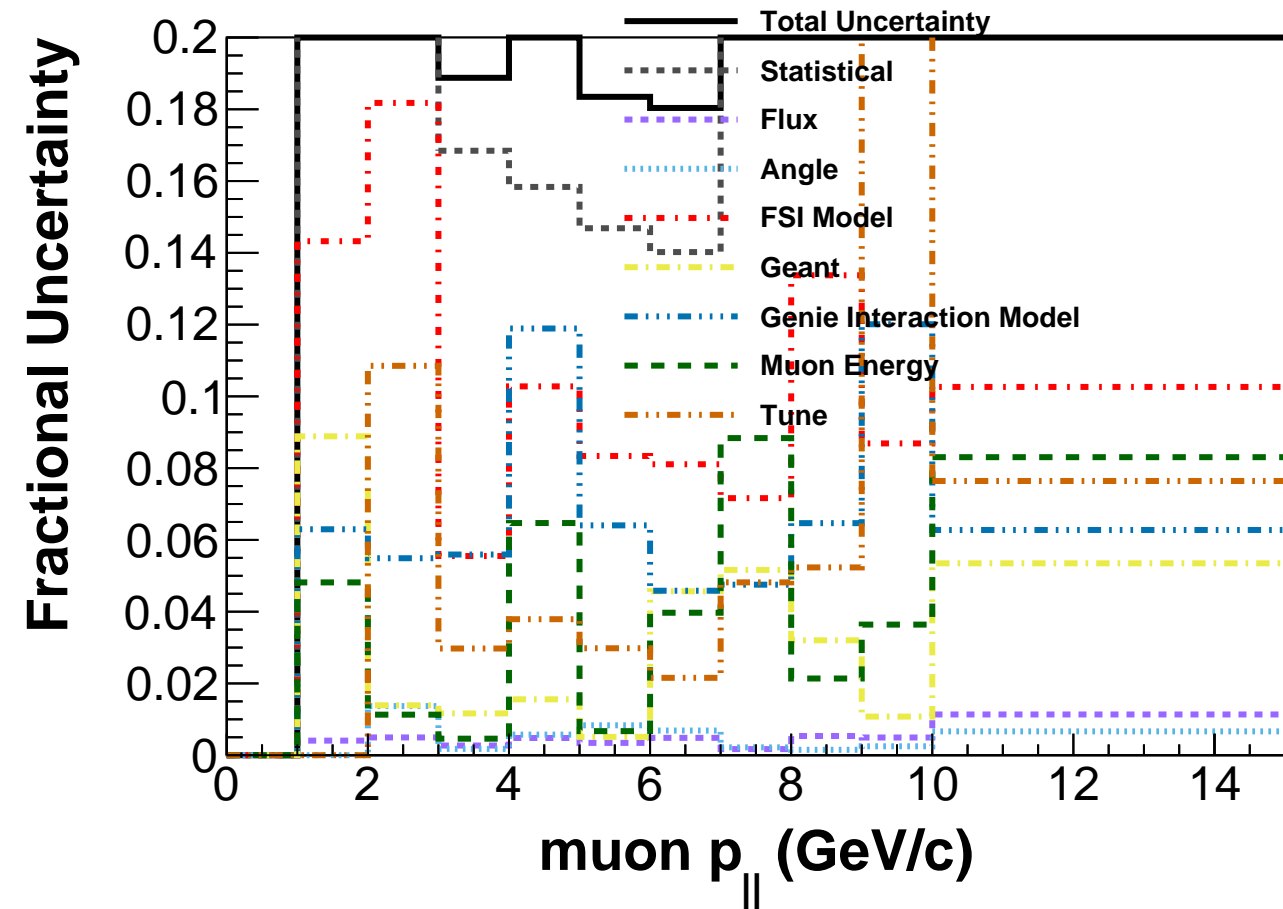
Unsmeared Data Compared to Selected MC



Unsmeared Data Compared to Selected MC

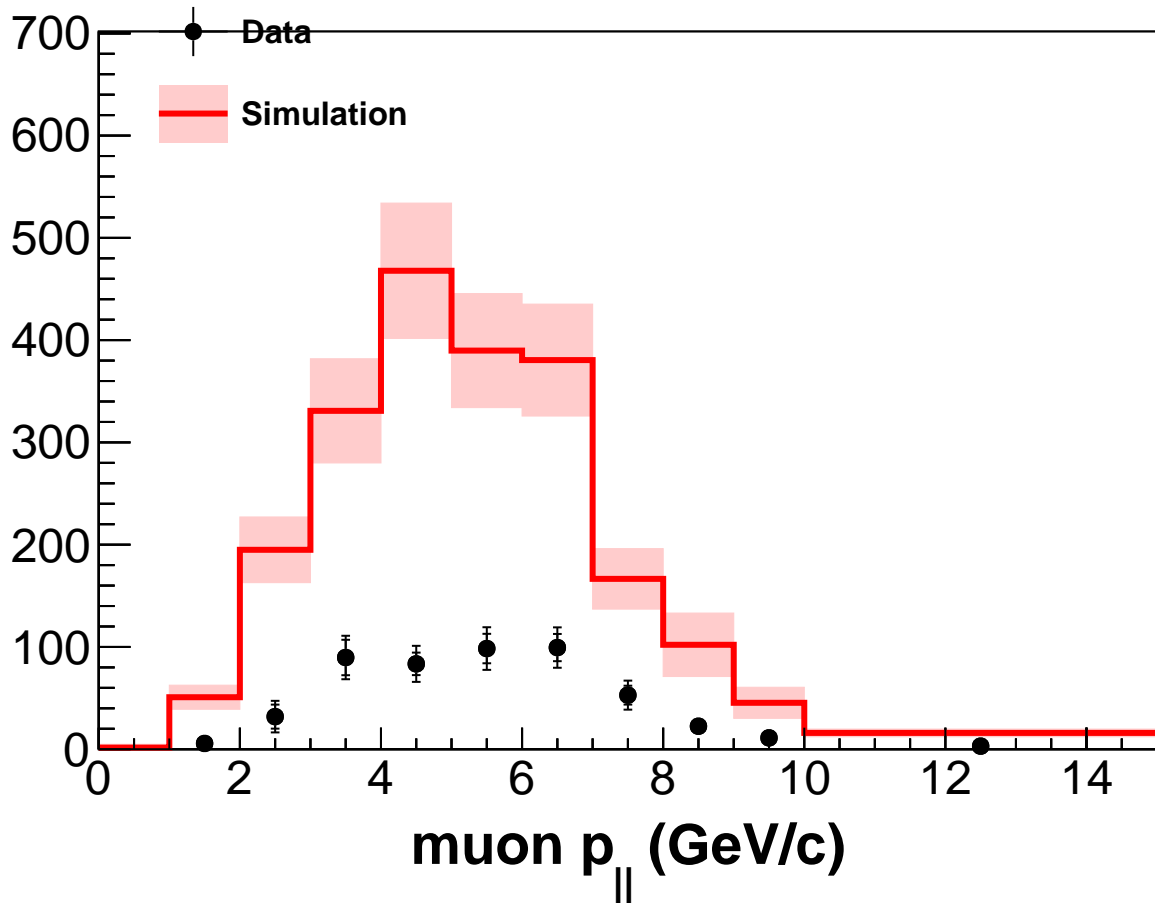


Unsmeared Data Systematics

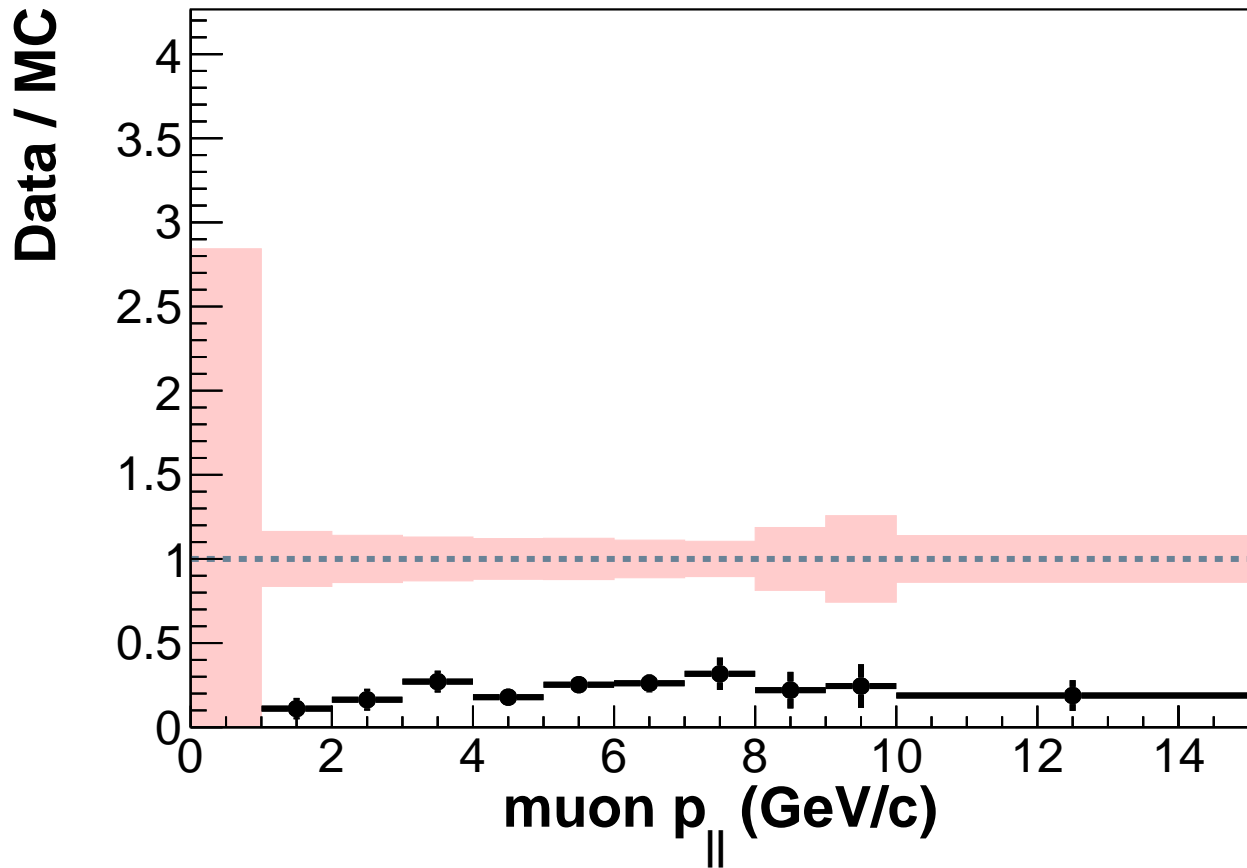


efficiency: selected and true

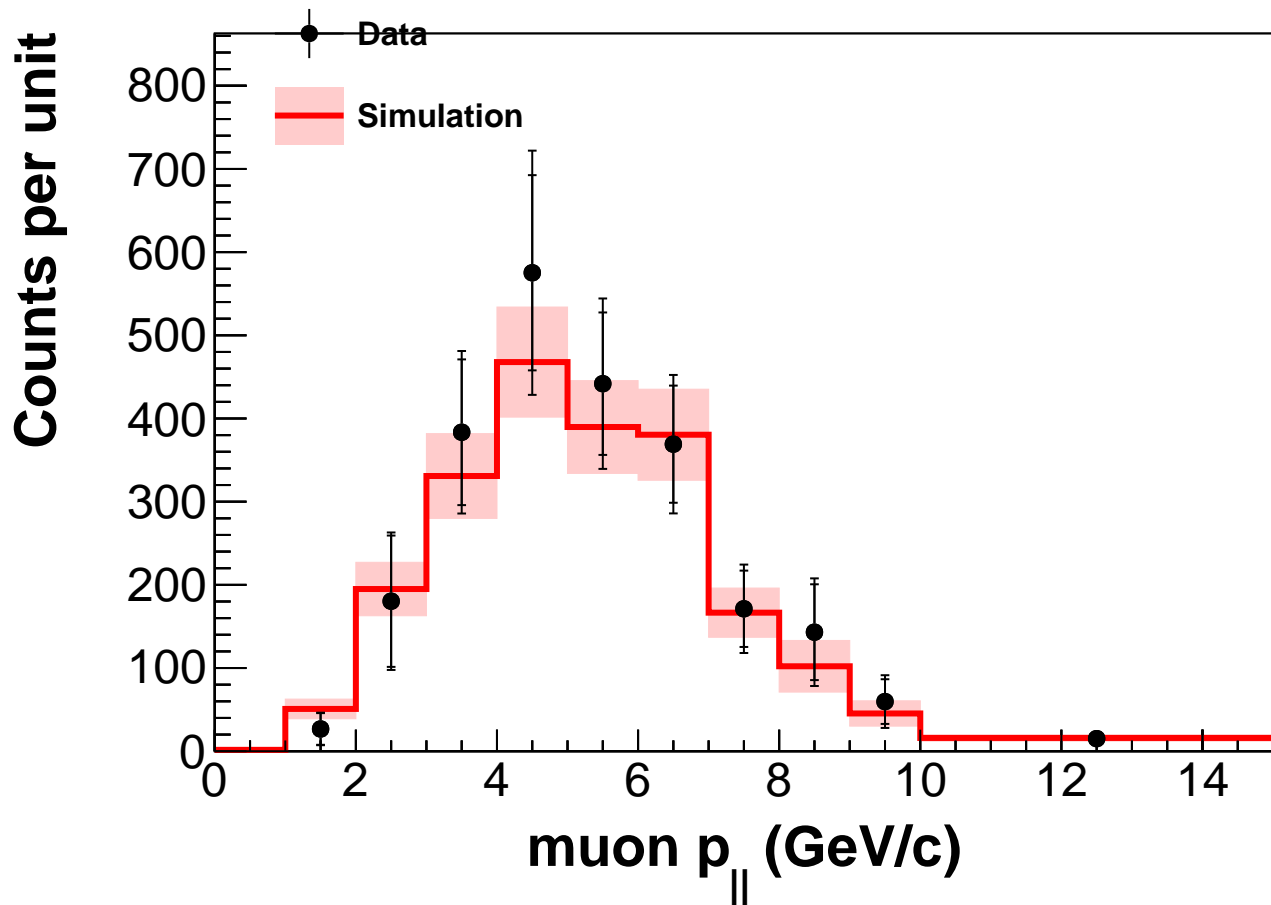
Counts per unit



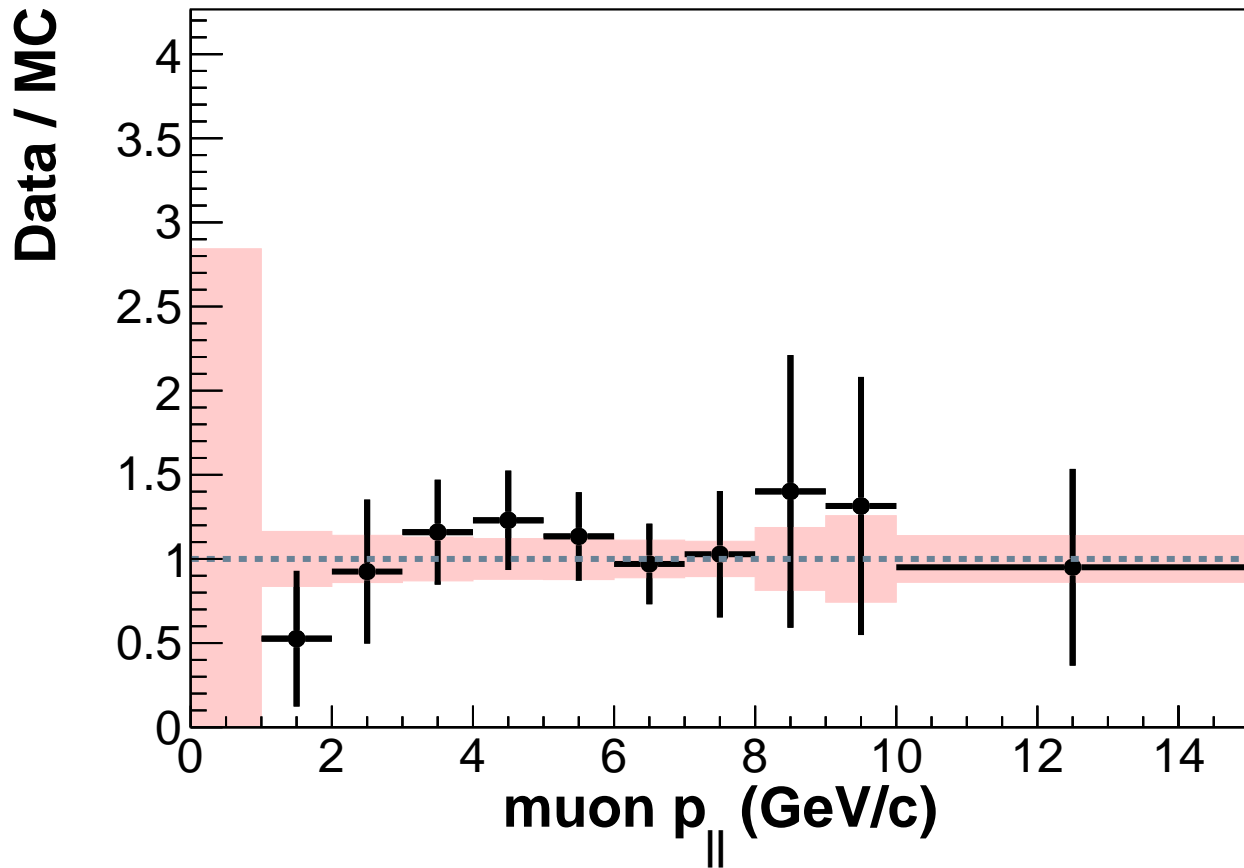
efficiency: selected and true



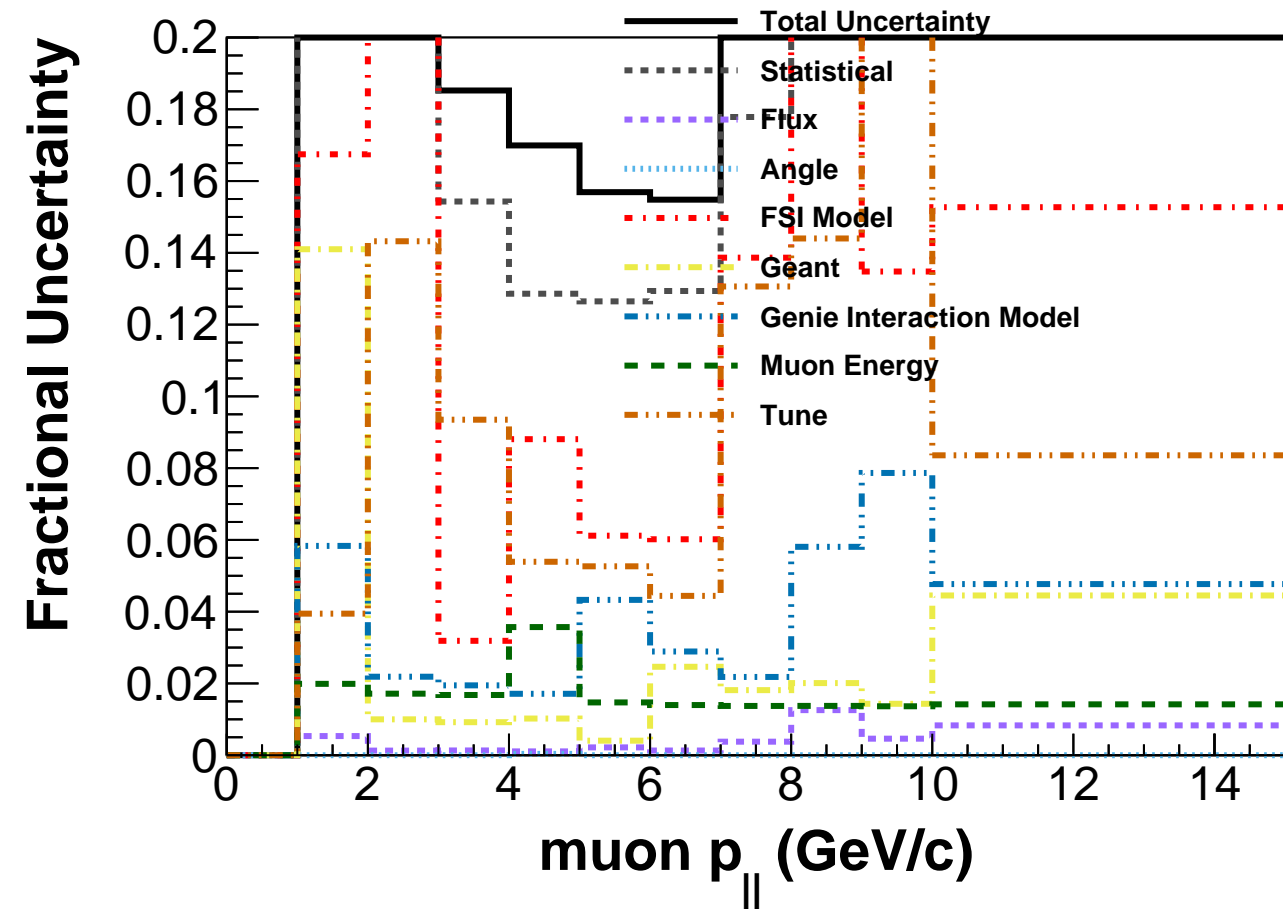
effcorr data vs truth



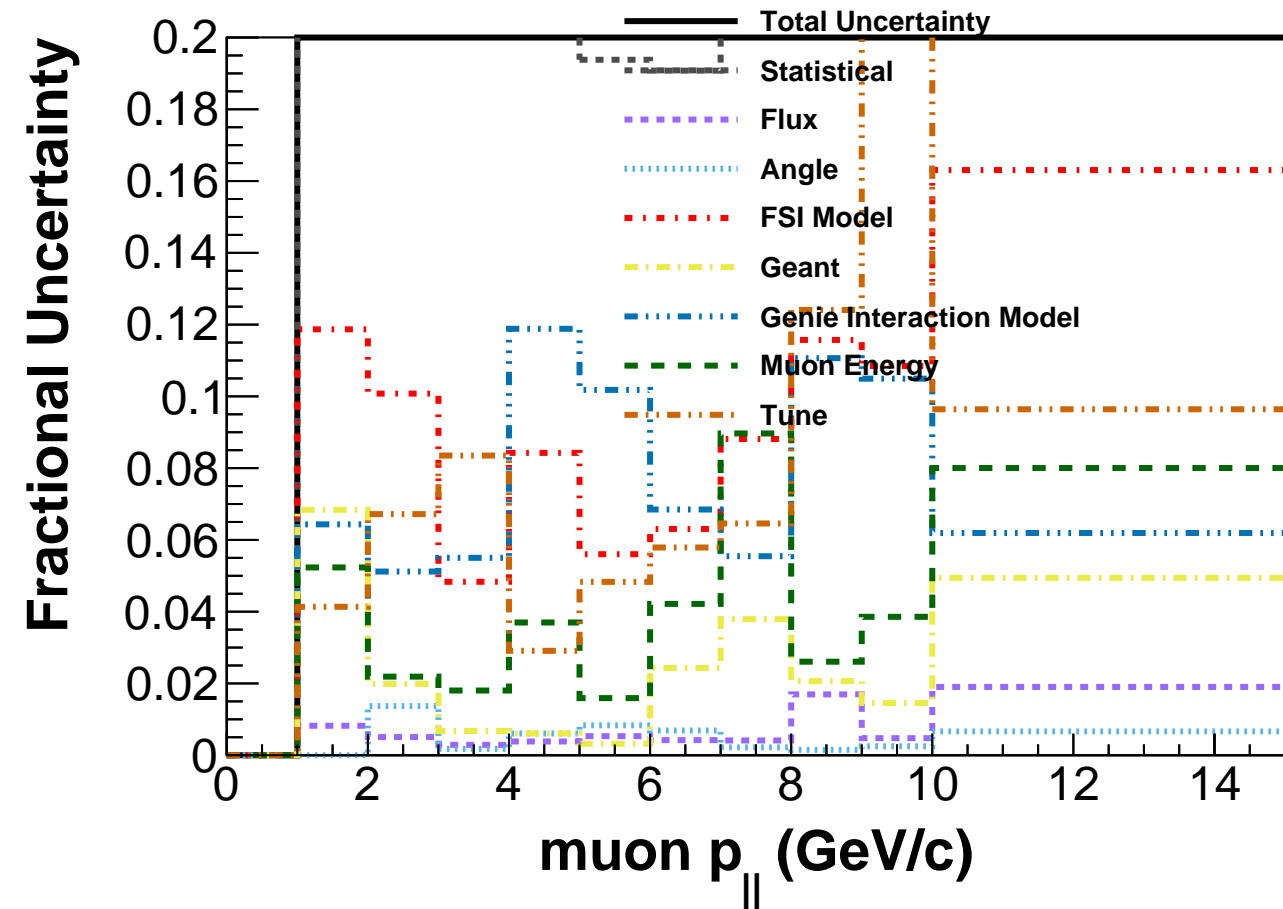
effcorr data vs truth



Efficiency Factor Systematics

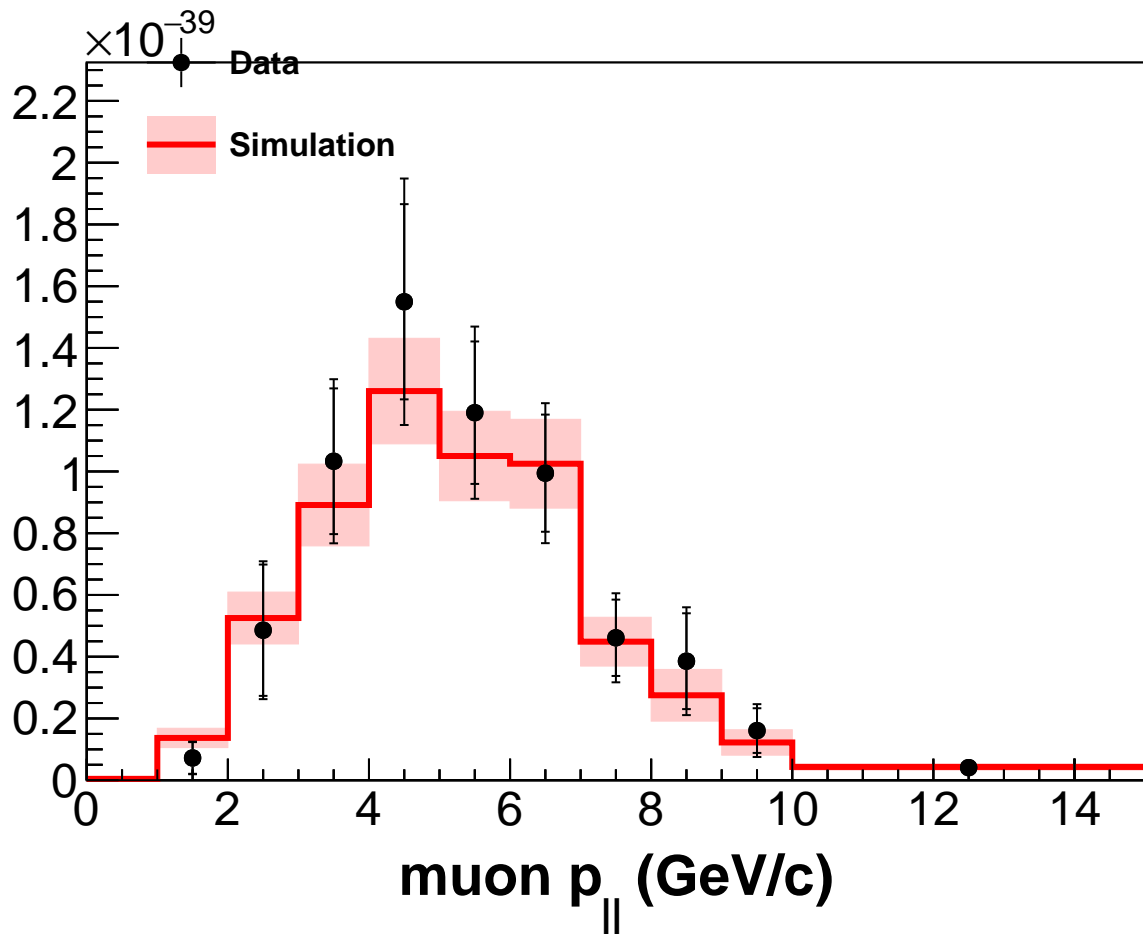


Efficiency Corrected Data Systematics



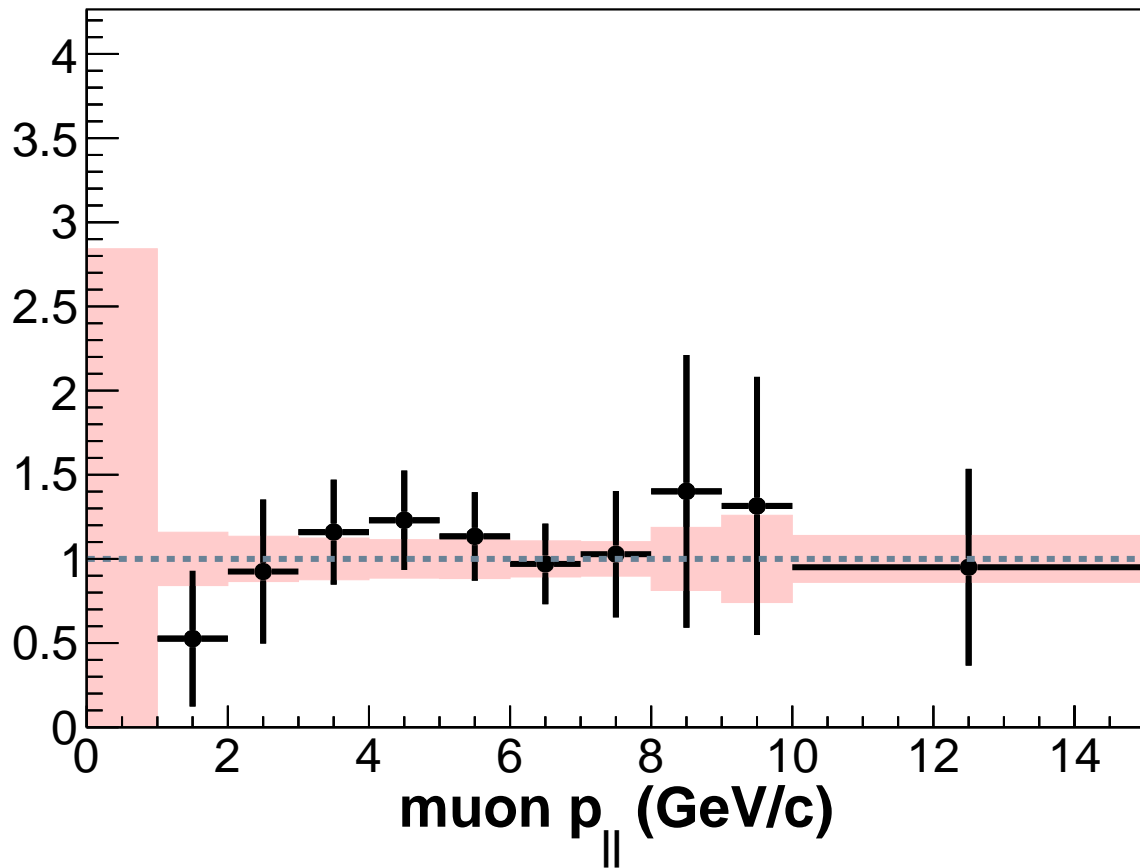
σ

Counts per unit

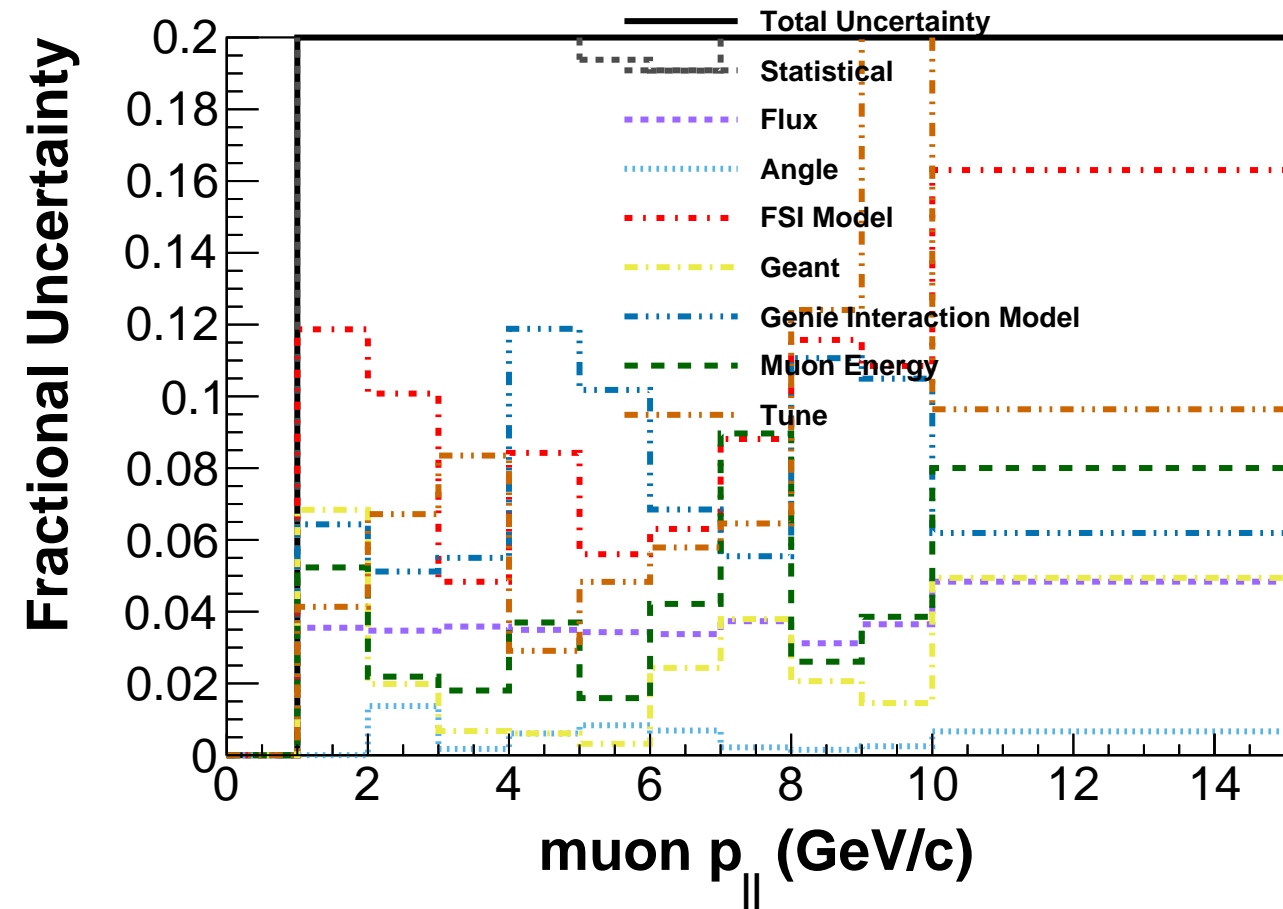


sigma

Data / MC



Cross Section Systematics



Cross Section Systematics

