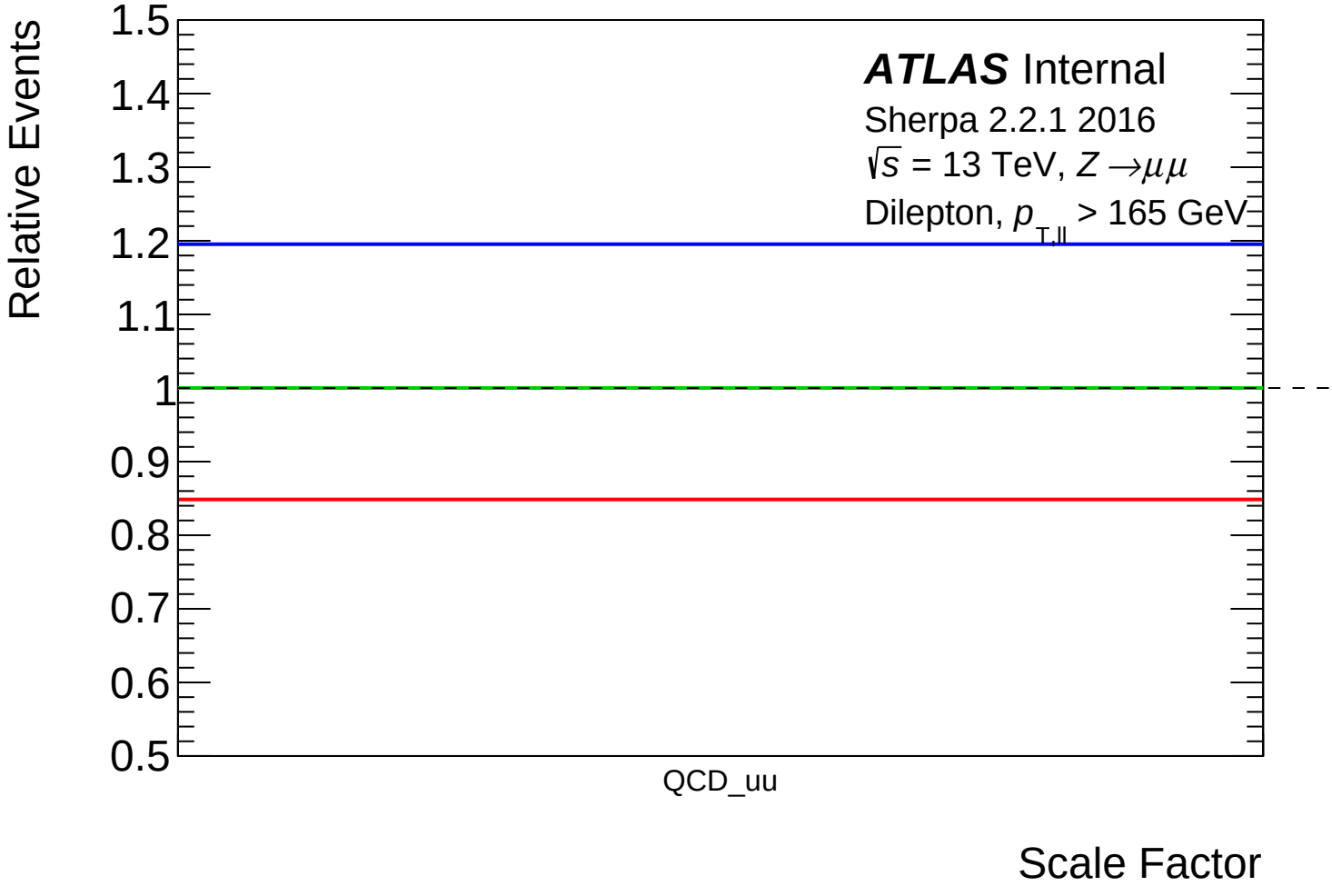
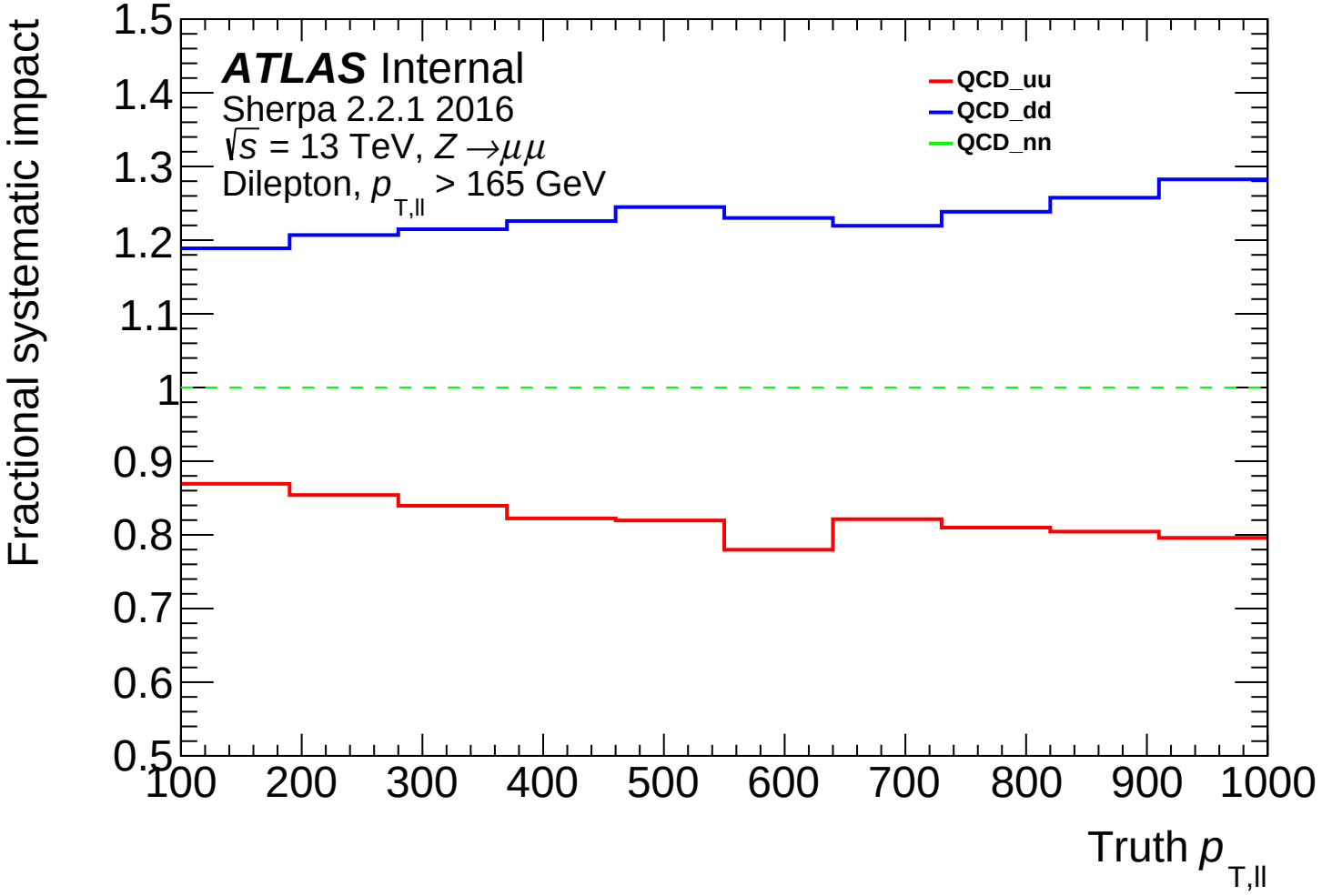
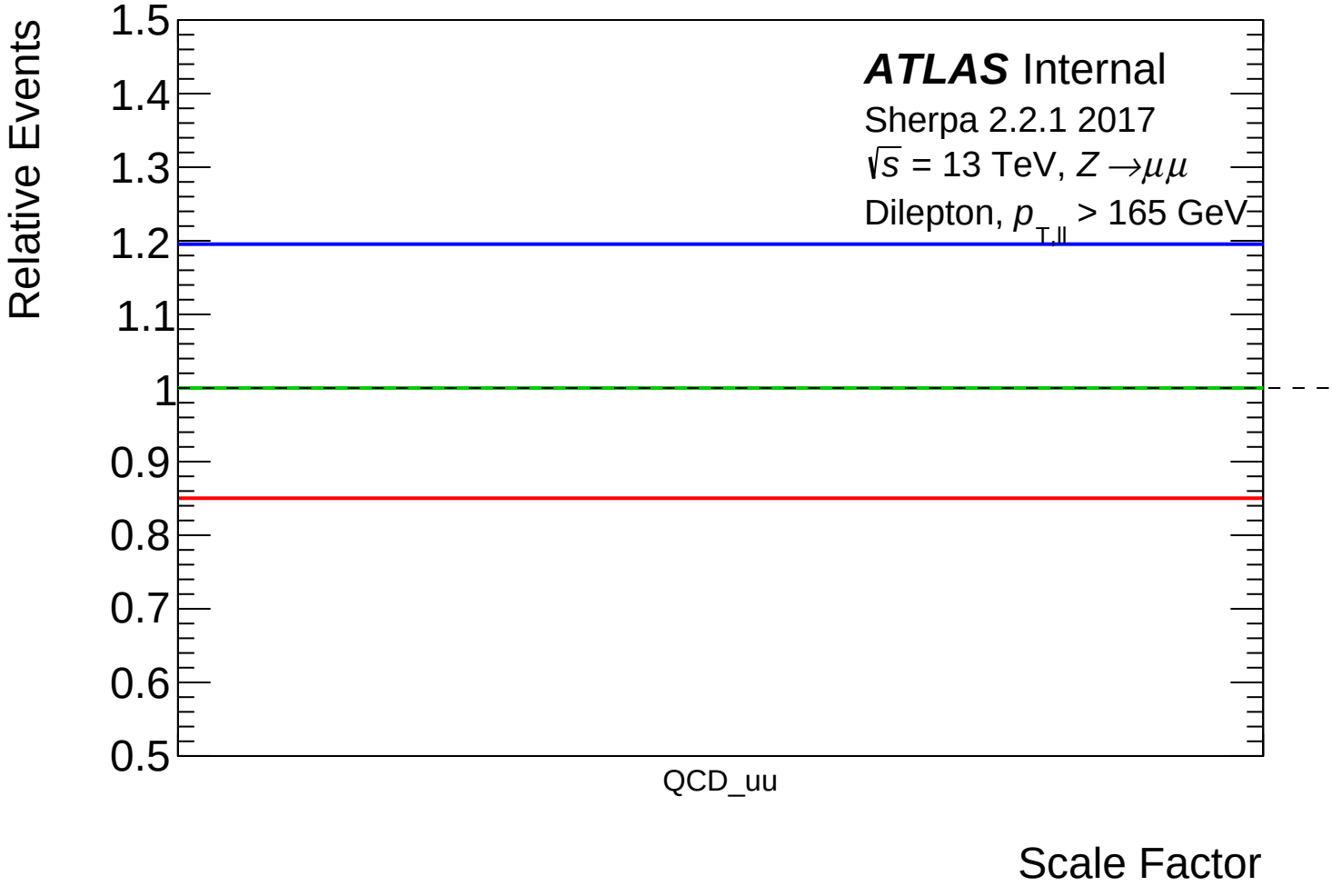
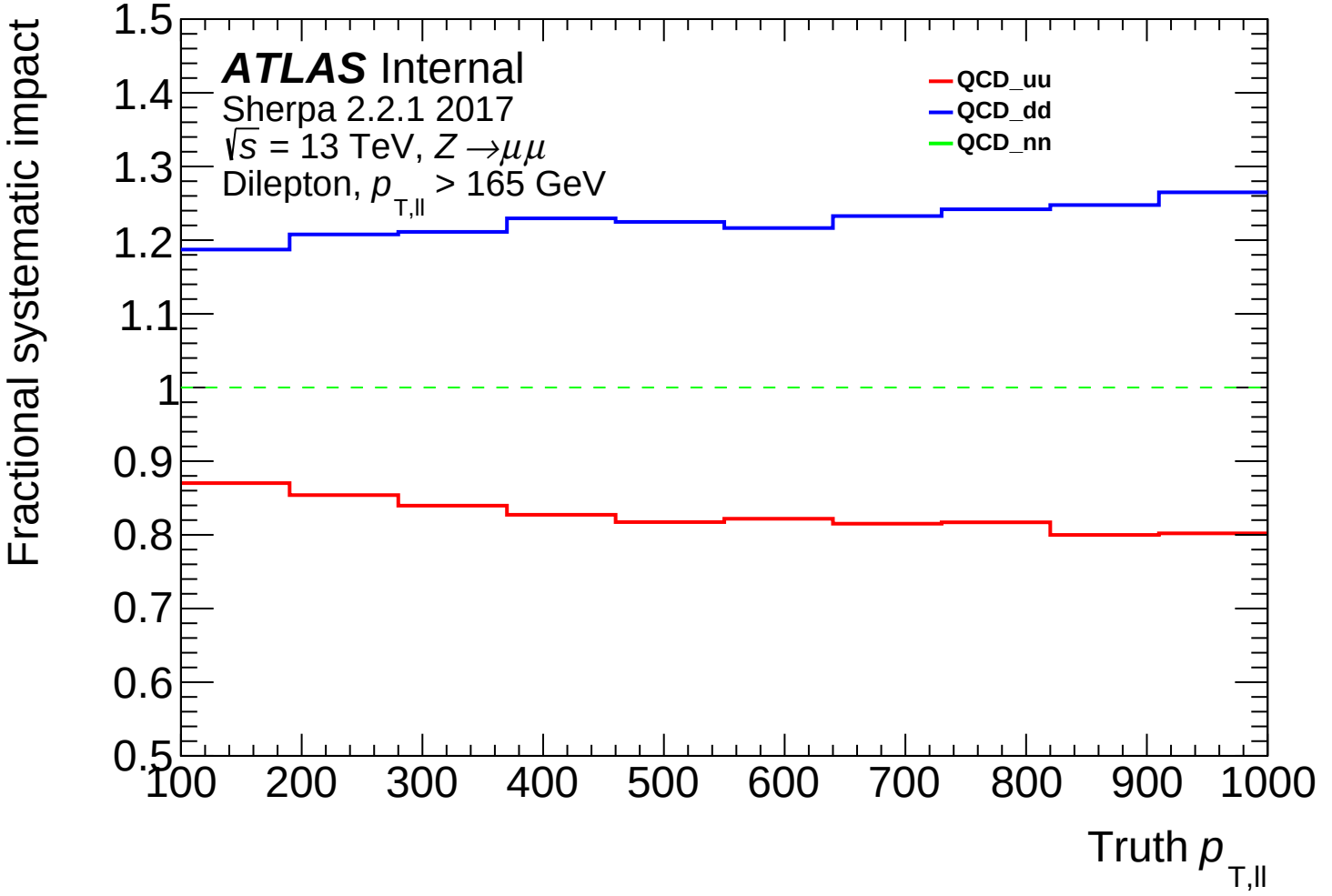
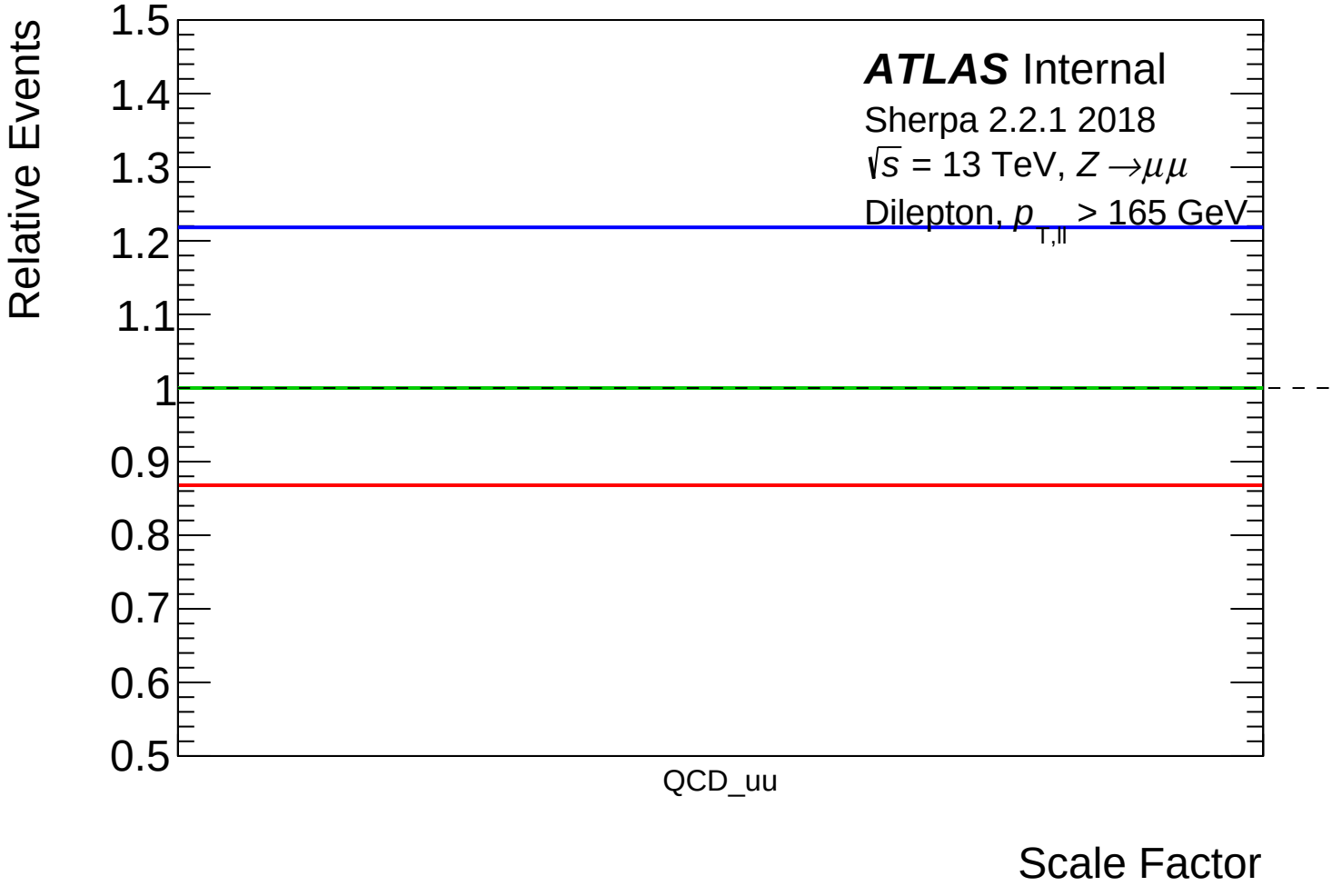
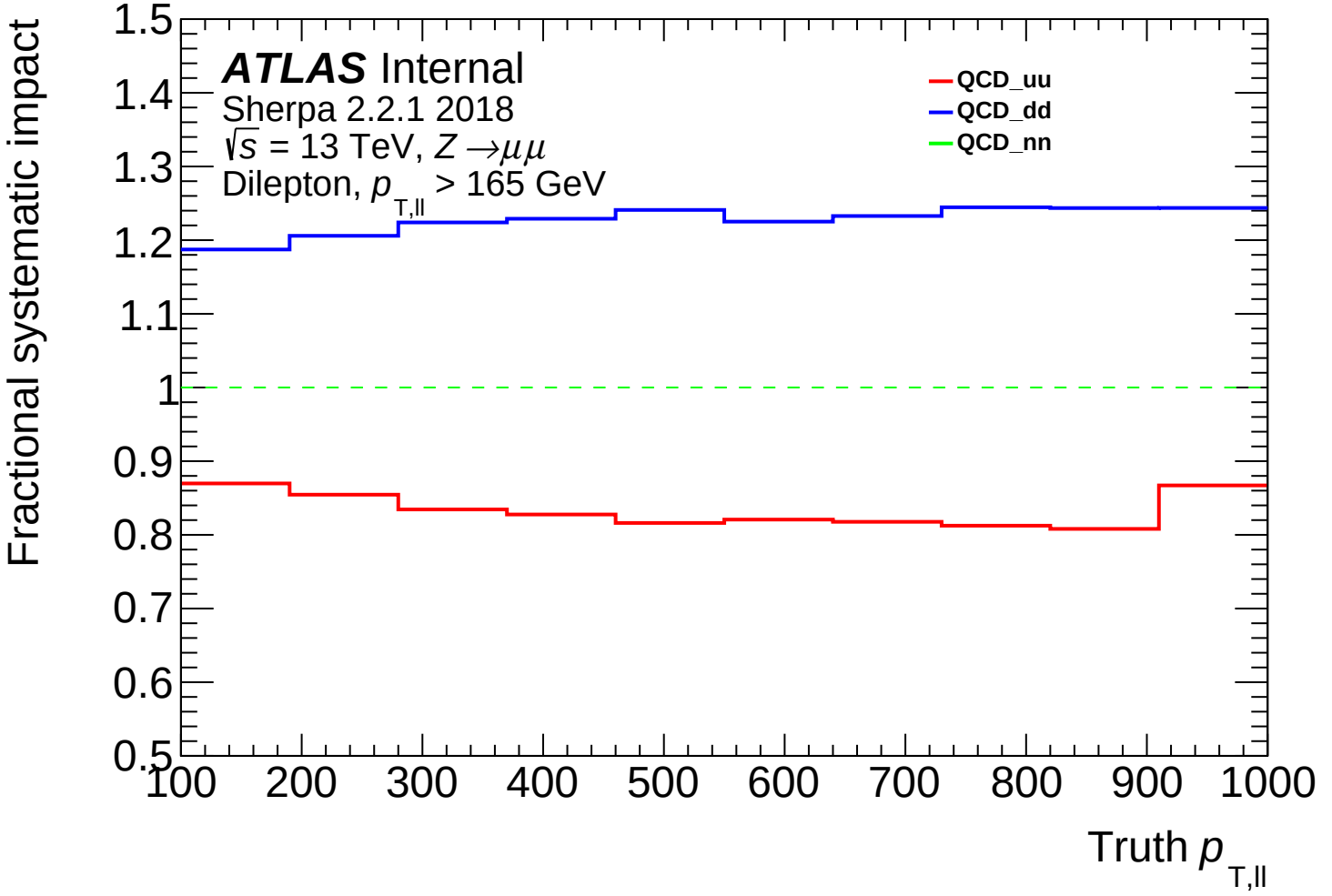

Relative Events
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
ATLAS Internal
Sherpa 2.2.1 2016
√s = 13 TeV, Z →μμ
Dilepton, p_T,ll > 165 GeV
QCD_uu
Scale Factor

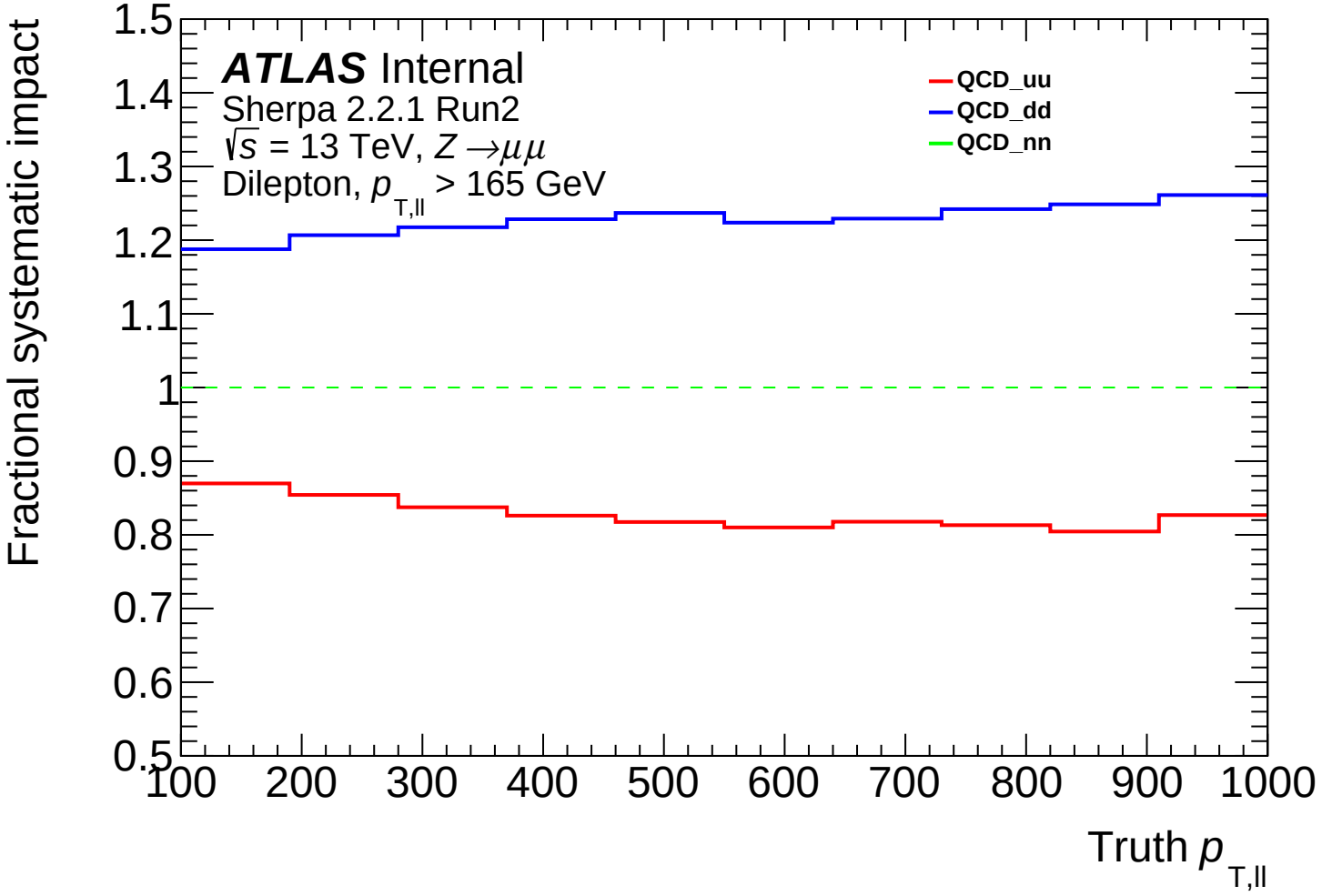

ATLAS Internal
Sherpa 2.2.1 2016
√s = 13 TeV, Z → μμ
Dilepton, p T,ll > 165 GeV
QCD_uu
QCD_dd
QCD_nn
Fractional systematic impact
Truth p T,ll
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
100
200
300
400
500
600
700
800
900
1000


Relative Events
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
ATLAS Internal
Sherpa 2.2.1 2017
√s = 13 TeV, Z →μμ
Dilepton, p_T,ll > 165 GeV
QCD_uu
Scale Factor


ATLAS Internal
Sherpa 2.2.1 2017
√s = 13 TeV, Z →μμ
Dilepton, p T,ll > 165 GeV
QCD_uu
QCD_dd
QCD_nn
Fractional systematic impact
Truth p T,ll
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
100
200
300
400
500
600
700
800
900
1000


Relative Events
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
ATLAS Internal
Sherpa 2.2.1 2018
√s = 13 TeV, Z →μμ
Dilepton, p T,ll > 165 GeV
QCD_uu
Scale Factor


ATLAS Internal
Sherpa 2.2.1 2018
√s = 13 TeV, Z →μμ
Dilepton, p T,ll > 165 GeV
QCD_uu
QCD_dd
QCD_nn
Fractional systematic impact
Truth p T,ll
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
100
200
300
400
500
600
700
800
900
1000


ATLAS Internal
Sherpa 2.2.1 Run2
√s = 13 TeV, Z → μμ
Dilepton, p T,ll > 165 GeV
QCD_uu
QCD_dd
QCD_nn
Fractional systematic impact
Truth p T,ll
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
100
200
300
400
500
600
700
800
900
1000