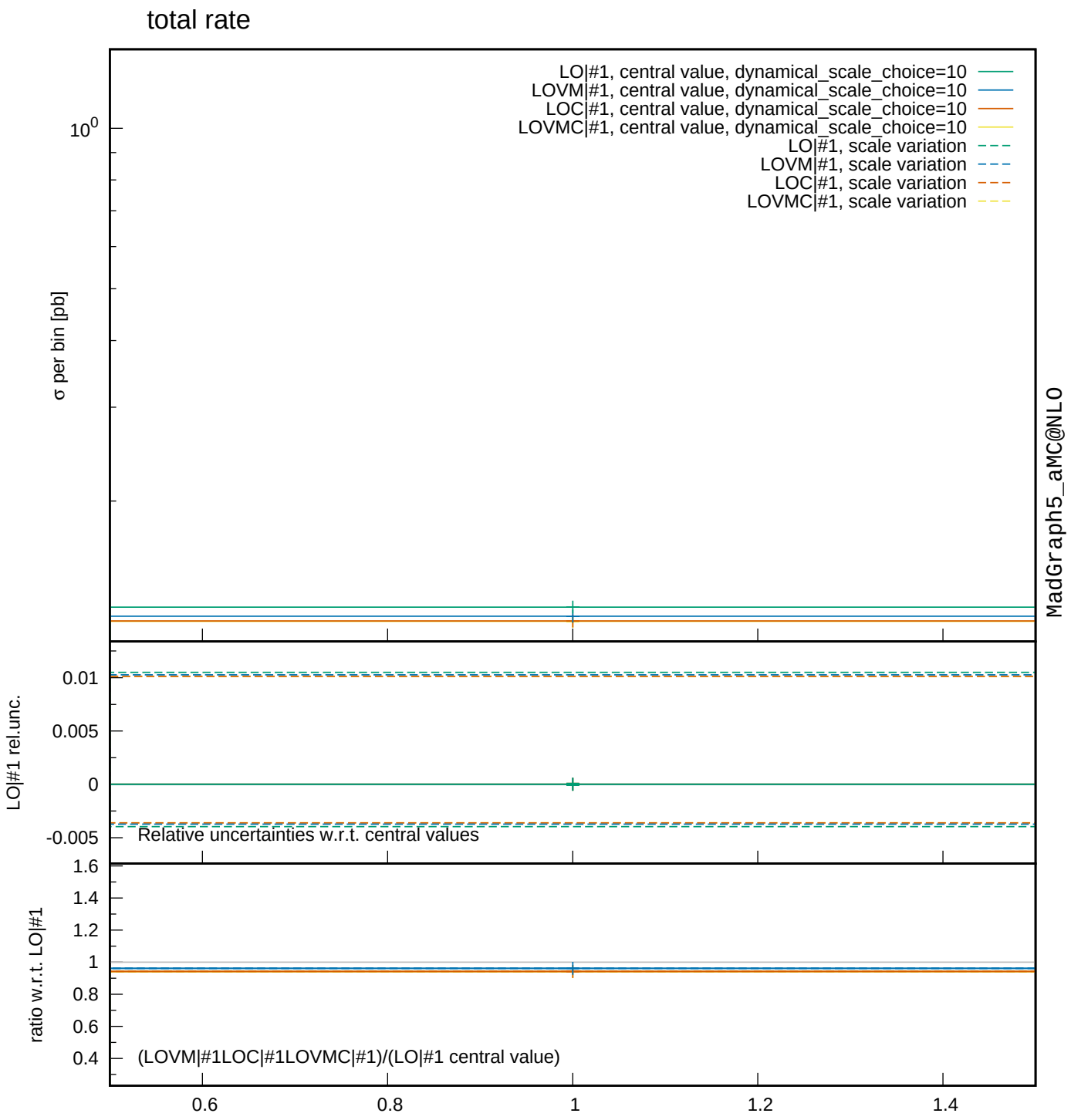
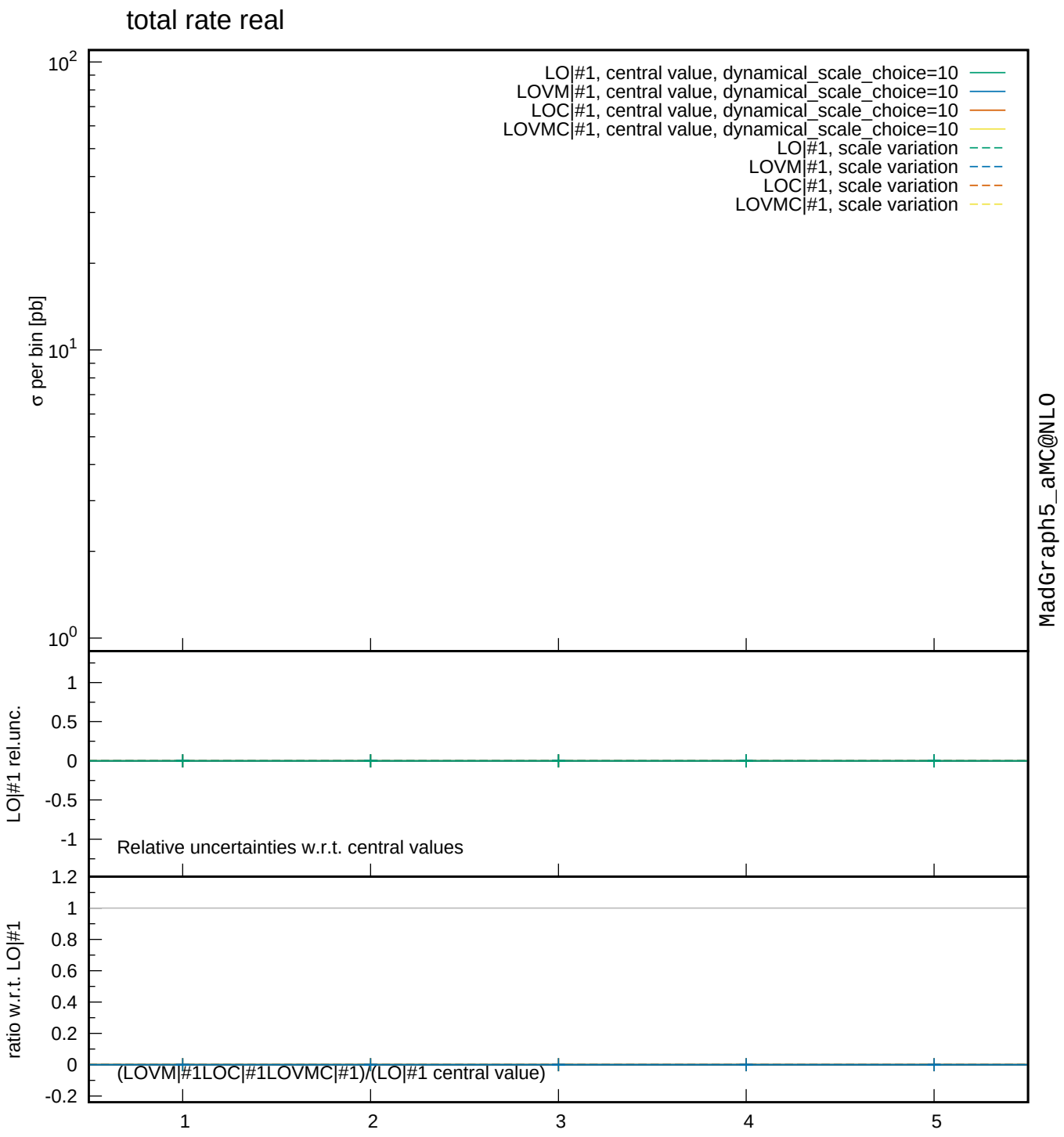
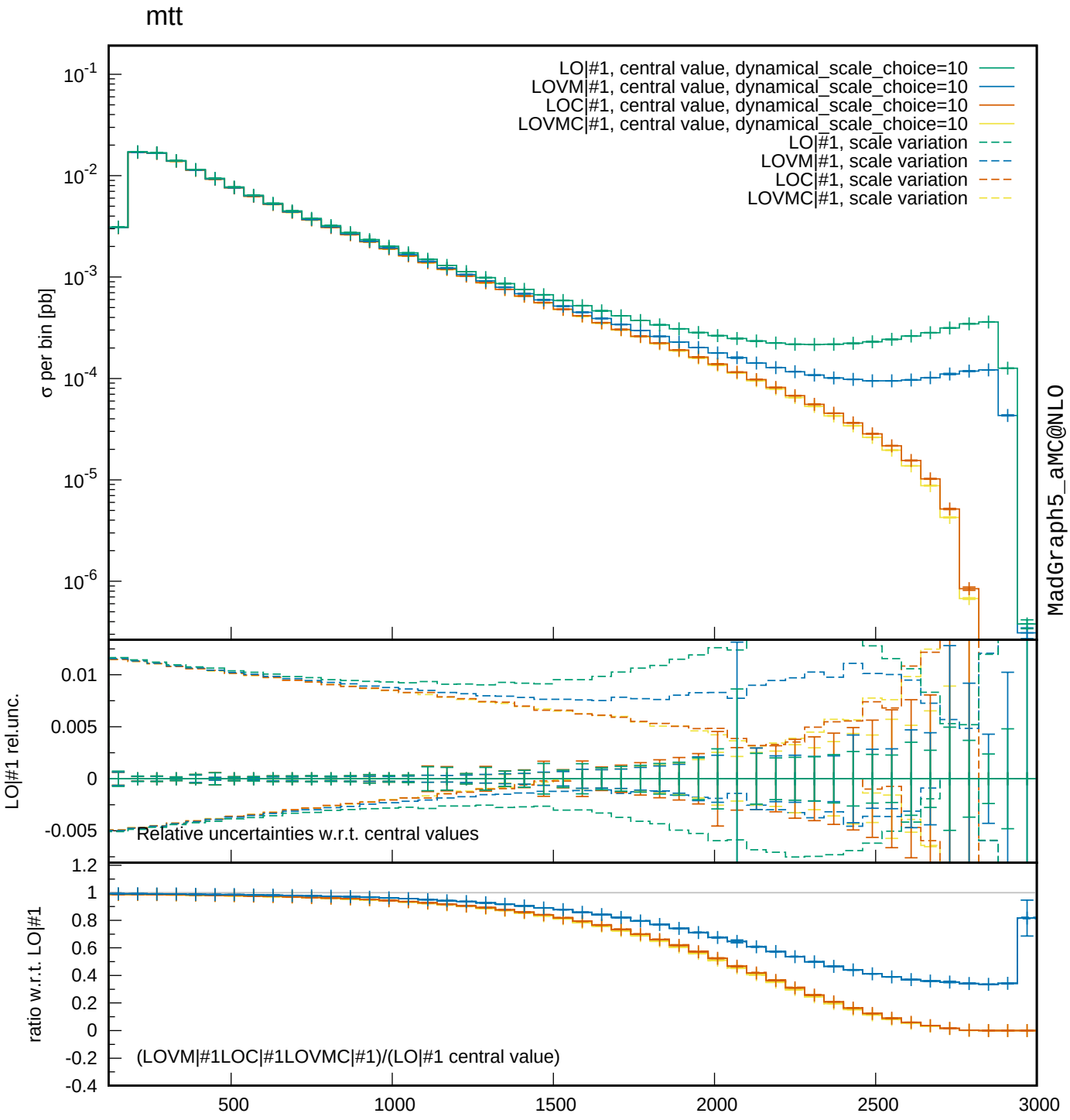
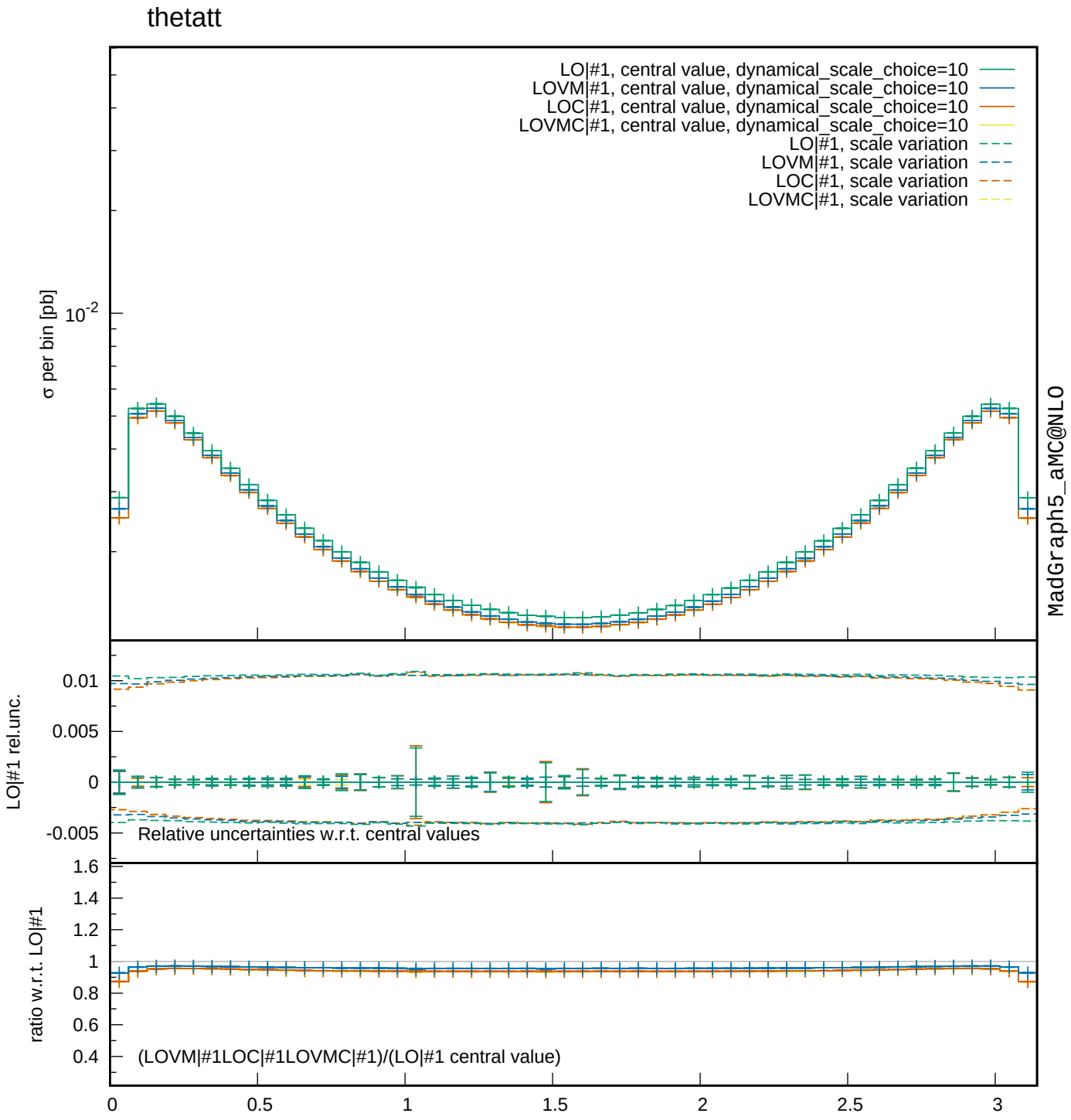
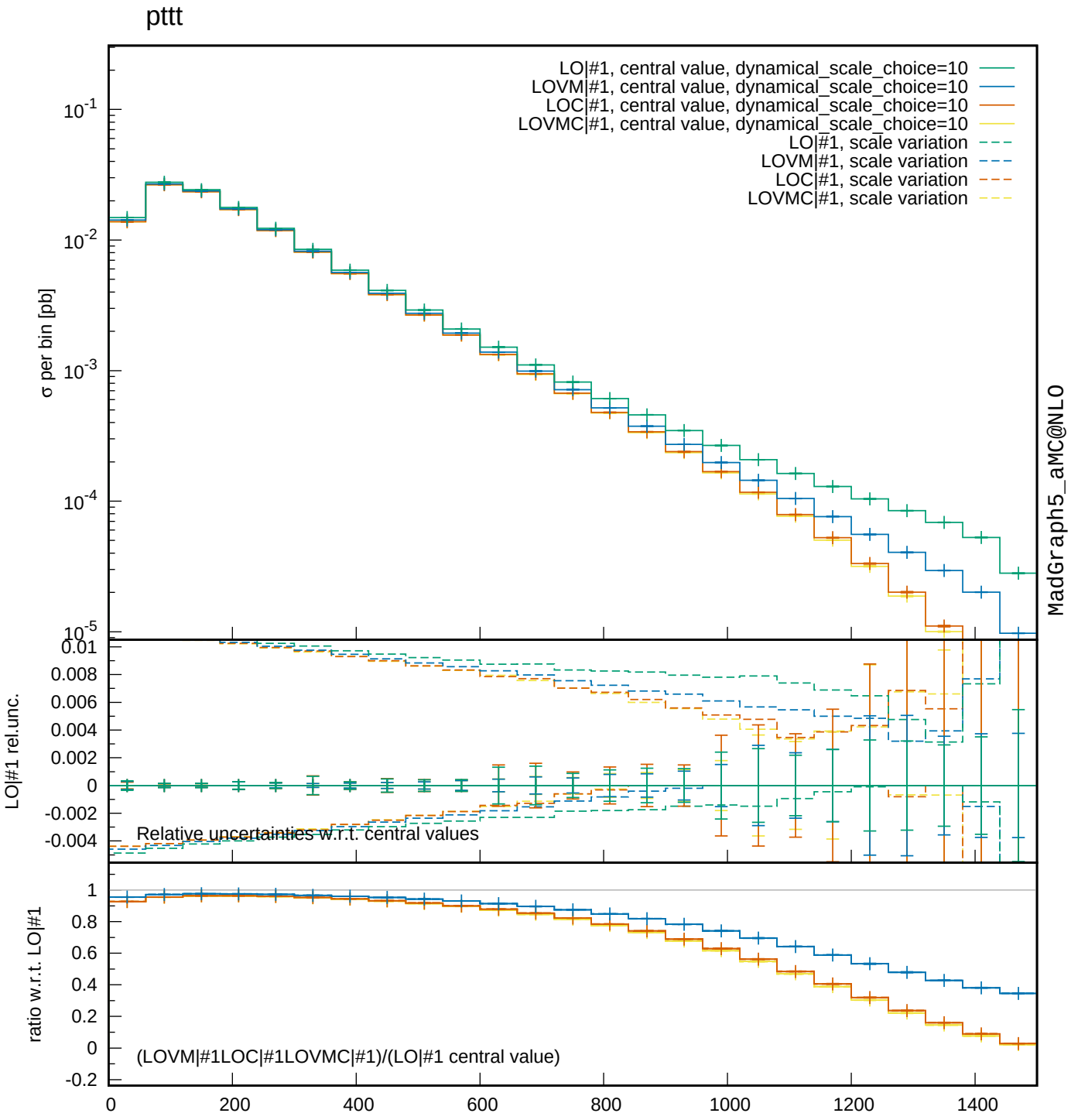
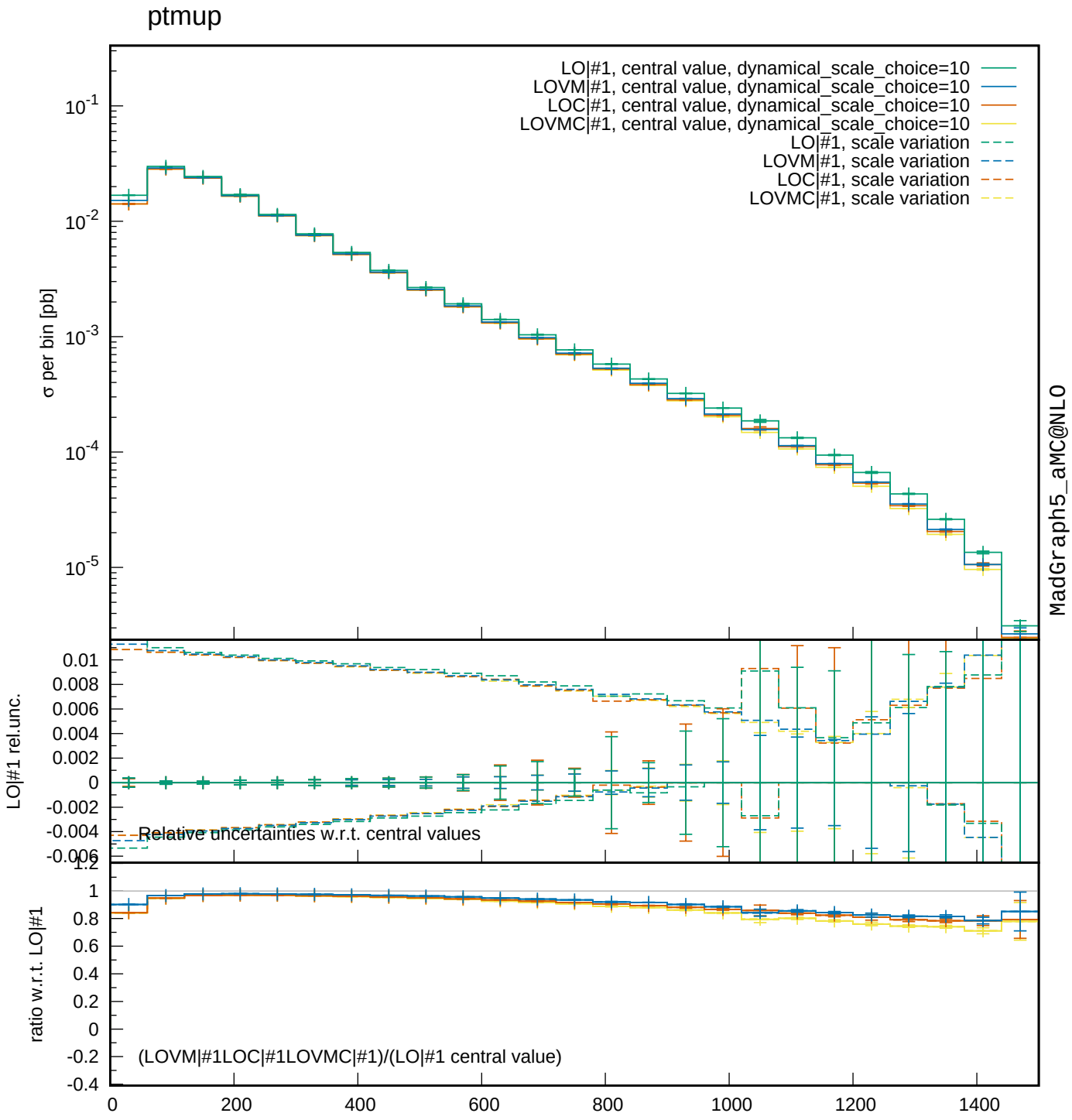

total rate
LO|#1, central value, dynamical_scale_choice=10
LOVM|#1, central value, dynamical_scale_choice=10
LOC|#1, central value, dynamical_scale_choice=10
LOVMC|#1, central value, dynamical_scale_choice=10
LO|#1, scale variation
LOVM|#1, scale variation
LOC|#1, scale variation
LOVMC|#1, scale variation
σ per bin [pb]
10^0
MadGraph5_aMC@NLO
LO|#1 rel.unc.
0.01
0.005
0
-0.005
Relative uncertainties w.r.t. central values
ratio w.r.t. LO|#1
1.6
1.4
1.2
1
0.8
0.6
0.4
(LOVM|#1LOC|#1LOVMC|#1)/(LO|#1 central value)
0.6
0.8
1
1.2
1.4

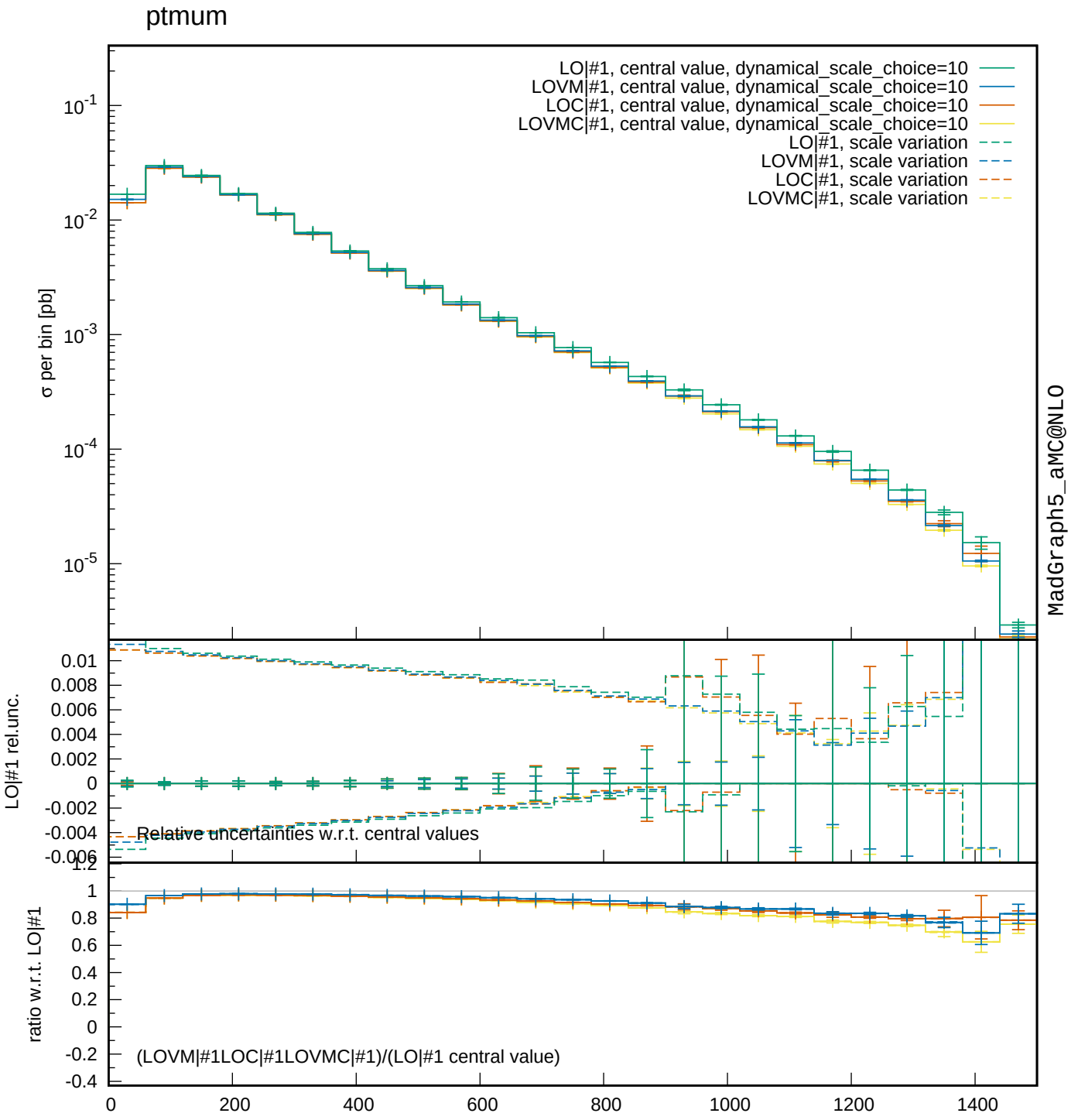

total rate real
LO|#1, central value, dynamical_scale_choice=10
LOVM|#1, central value, dynamical_scale_choice=10
LOC|#1, central value, dynamical_scale_choice=10
LOVMC|#1, central value, dynamical_scale_choice=10
LO|#1, scale variation
LOVM|#1, scale variation
LOC|#1, scale variation
LOVMC|#1, scale variation
σ per bin [pb]
LO|#1 rel.unc.
Relative uncertainties w.r.t. central values
ratio w.r.t. LO|#1
(LOVM|#1LOC|#1LOVMC|#1)/(LO|#1 central value)
MadGraph5_aMC@NLO

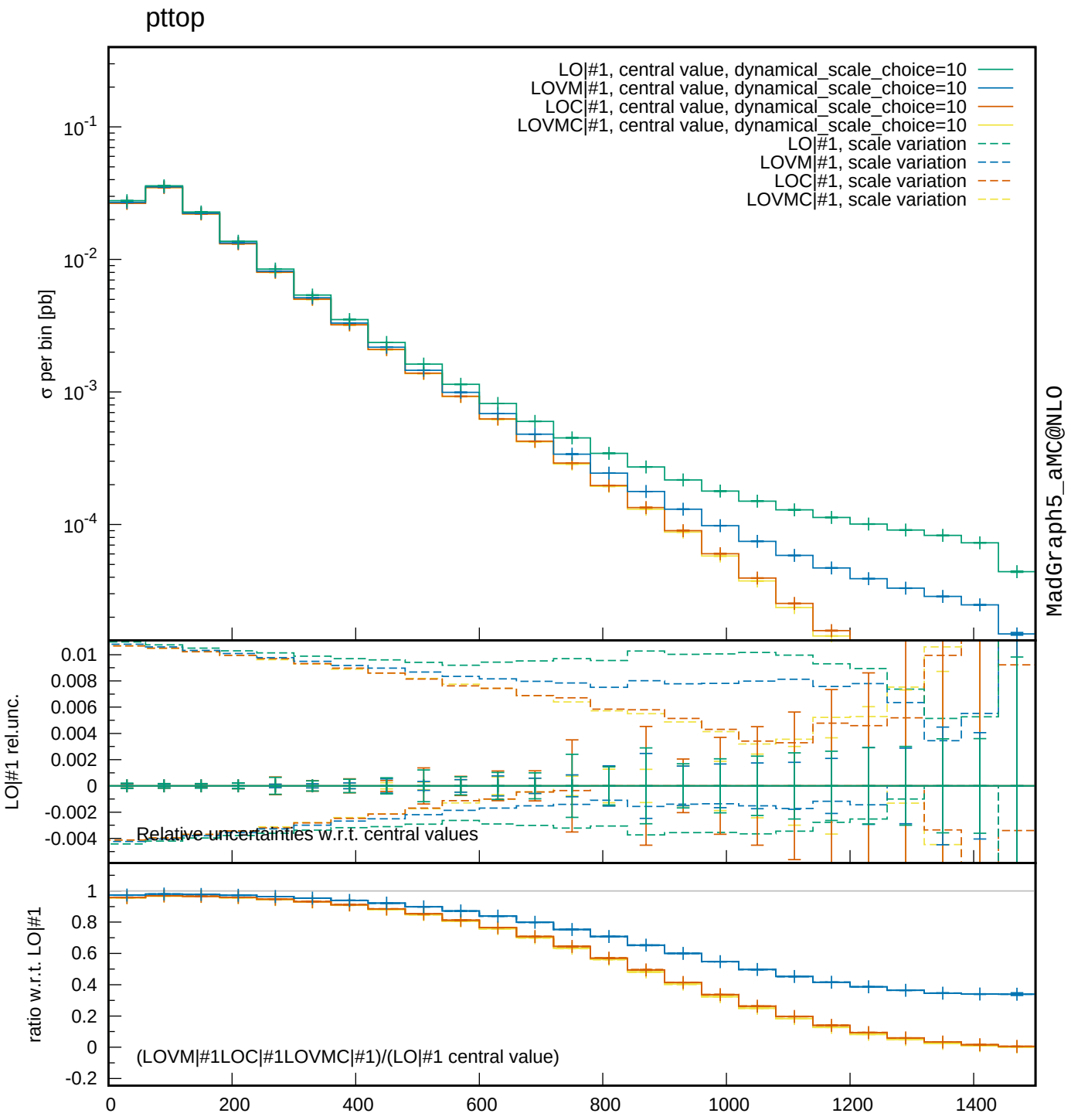

mtt
LO|#1, central value, dynamical_scale_choice=10
LOVM|#1, central value, dynamical_scale_choice=10
LOC|#1, central value, dynamical_scale_choice=10
LOVMC|#1, central value, dynamical_scale_choice=10
LO|#1, scale variation
LOVM|#1, scale variation
LOC|#1, scale variation
LOVMC|#1, scale variation
σ per bin [pb]
MadGraph5_aMC@NLO
LO|#1 rel.unc.
Relative uncertainties w.r.t. central values
ratio w.r.t. LO|#1
(LOVM|#1LOC|#1LOVMC|#1)/(LO|#1 central value)

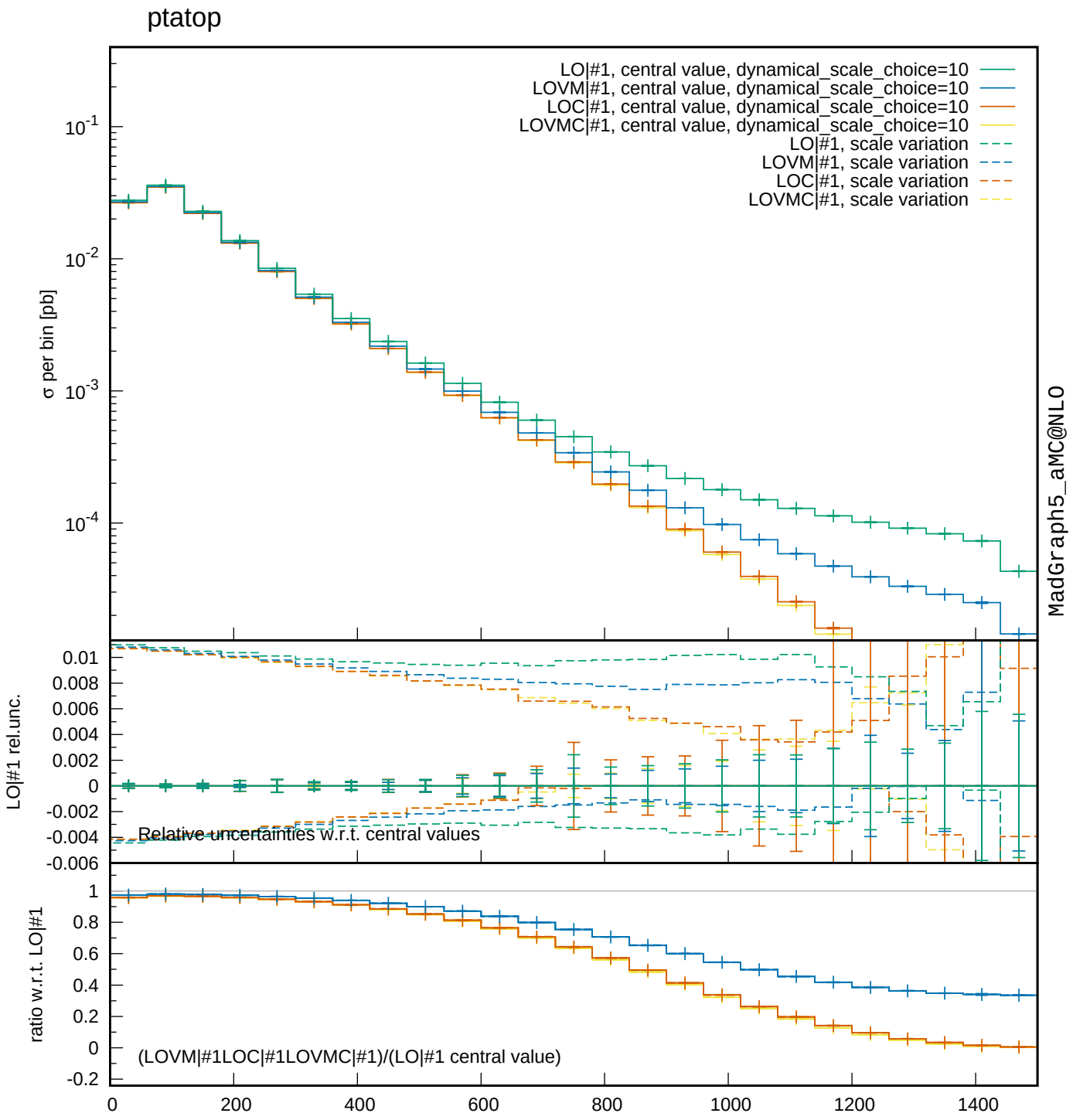

thetatt
LO|#1, central value, dynamical_scale_choice=10
LOVM|#1, central value, dynamical_scale_choice=10
LOC|#1, central value, dynamical_scale_choice=10
LOVMC|#1, central value, dynamical_scale_choice=10
LO|#1, scale variation
LOVM|#1, scale variation
LOC|#1, scale variation
LOVMC|#1, scale variation
σ per bin [pb]
10^-2
MadGraph5_aMC@NLO
LO|#1 rel.unc.
0.01
0.005
0
-0.005
Relative uncertainties w.r.t. central values
ratio w.r.t. LO|#1
1.6
1.4
1.2
1
0.8
0.6
0.4
(LOVM|#1LOC|#1LOVMC|#1)/(LO|#1 central value)
0
0.5
1
1.5
2
2.5
3

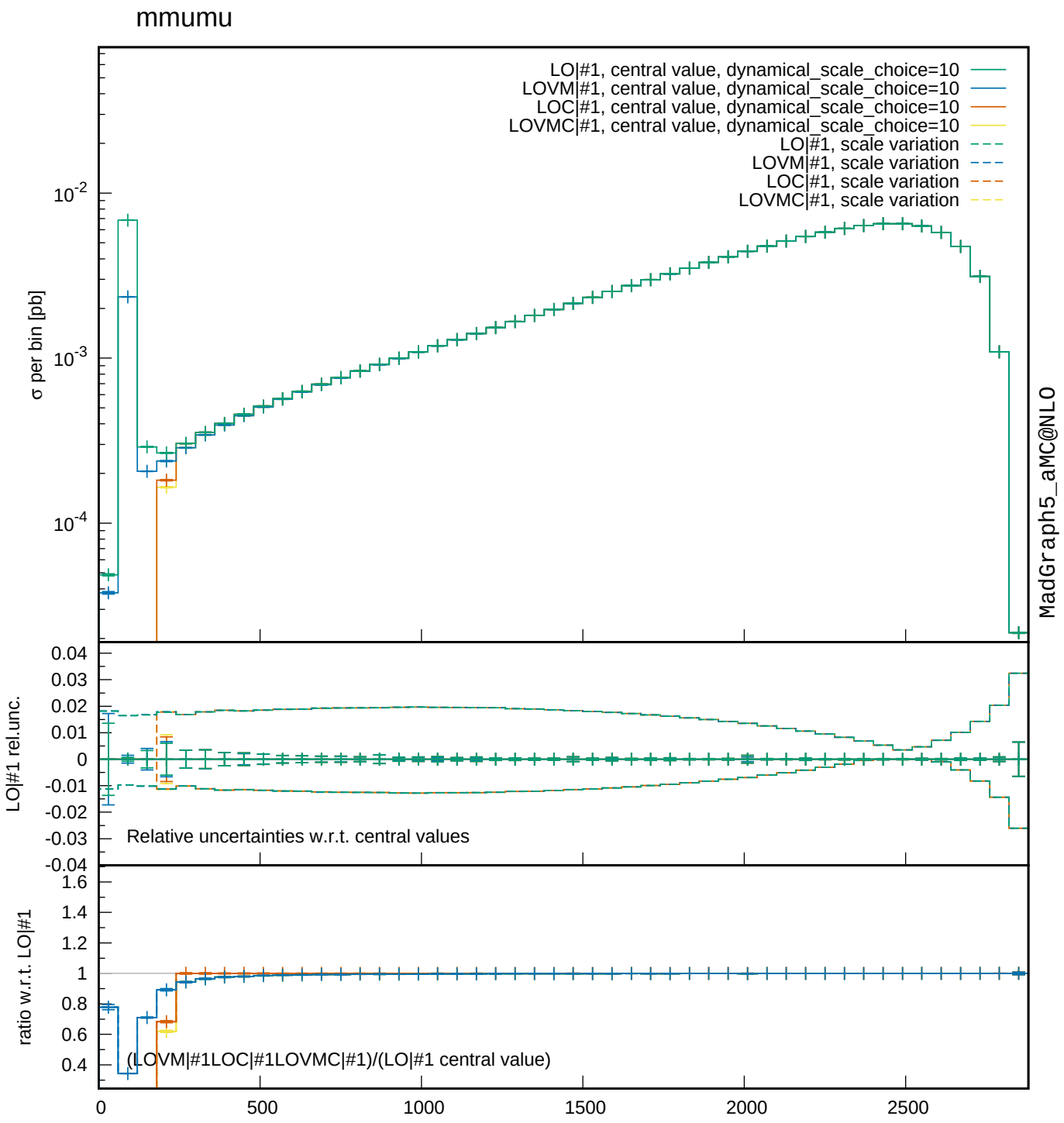

pttt
LO|#1, central value, dynamical_scale_choice=10
LOVM|#1, central value, dynamical_scale_choice=10
LOC|#1, central value, dynamical_scale_choice=10
LOVMC|#1, central value, dynamical_scale_choice=10
LO|#1, scale variation
LOVM|#1, scale variation
LOC|#1, scale variation
LOVMC|#1, scale variation
σ per bin [pb]
MadGraph5_aMC@NLO
LO|#1 rel.unc.
Relative uncertainties w.r.t. central values
ratio w.r.t. LO|#1
(LOVM|#1LOC|#1LOVMC|#1)/(LO|#1 central value)

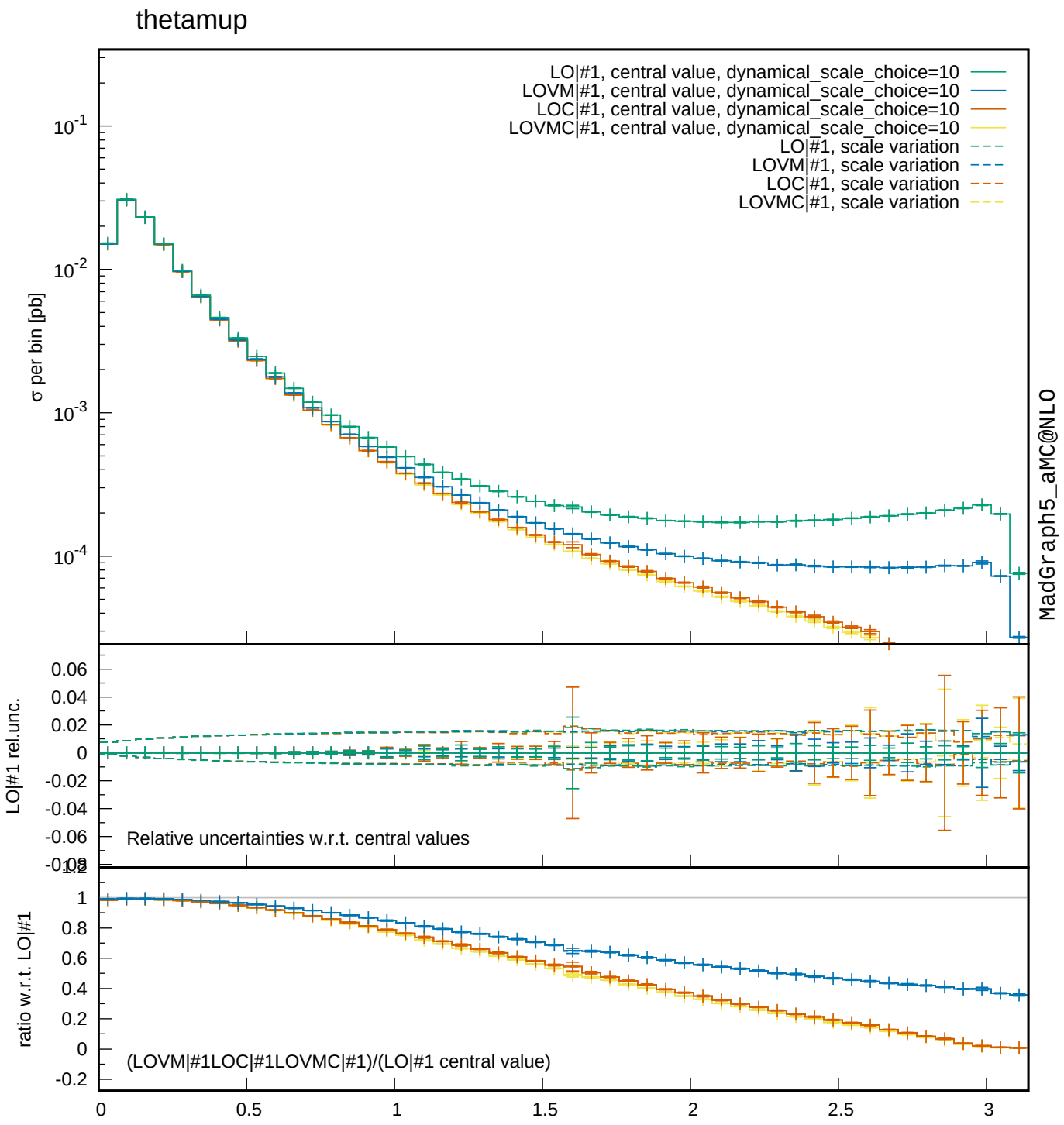

ptmup
LO|#1, central value, dynamical_scale_choice=10
LOVM|#1, central value, dynamical_scale_choice=10
LOC|#1, central value, dynamical_scale_choice=10
LOVMC|#1, central value, dynamical_scale_choice=10
LO|#1, scale variation
LOVM|#1, scale variation
LOC|#1, scale variation
LOVMC|#1, scale variation
σ per bin [pb]
MadGraph5_aMC@NLO
LO|#1 rel.unc.
Relative uncertainties w.r.t. central values
ratio w.r.t. LO|#1
(LOVM|#1LOC|#1LOVMC|#1)/(LO|#1 central value)

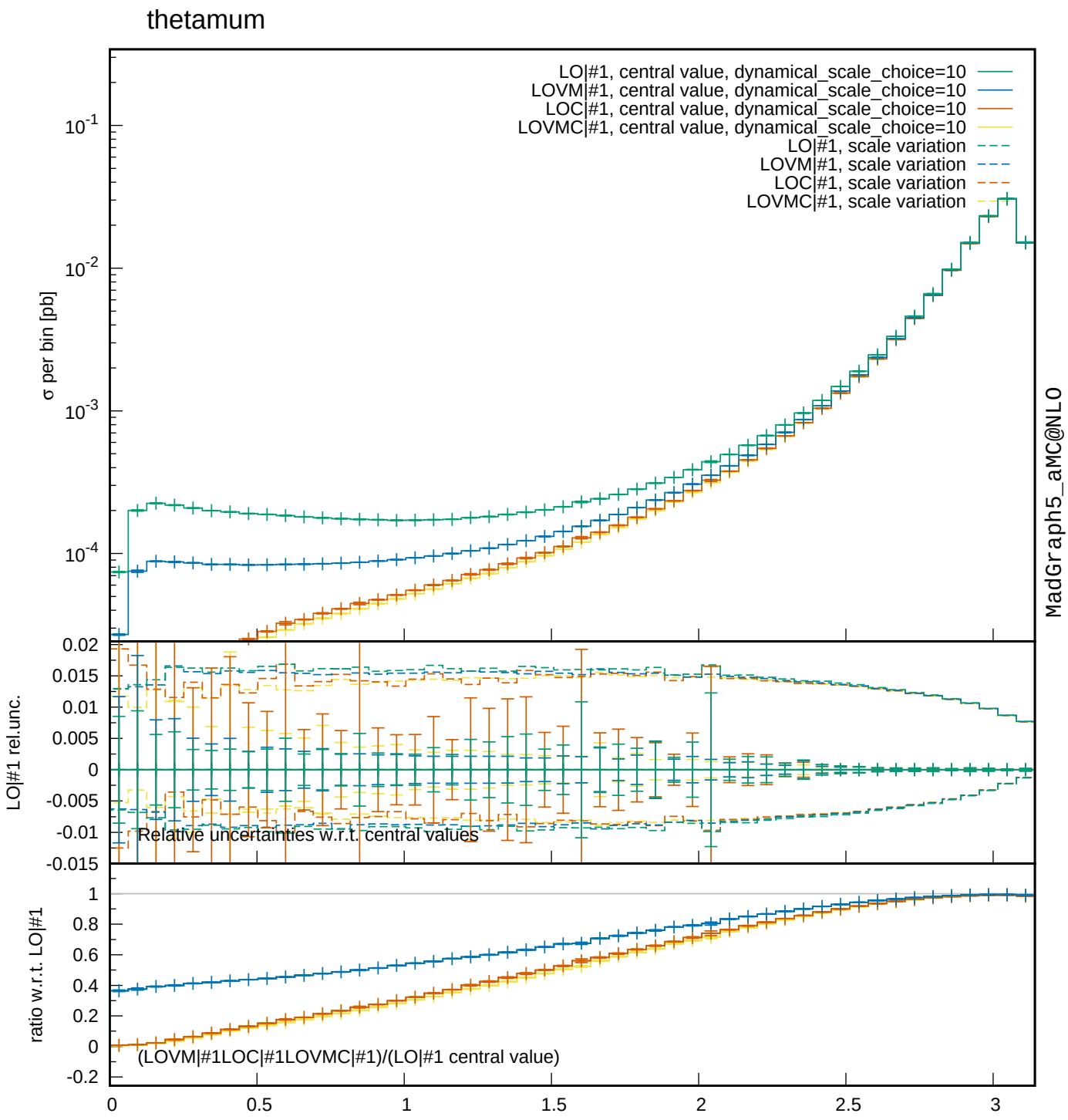

ptmum
LO|#1, central value, dynamical_scale_choice=10
LOVM|#1, central value, dynamical_scale_choice=10
LOC|#1, central value, dynamical_scale_choice=10
LOVMC|#1, central value, dynamical_scale_choice=10
LO|#1, scale variation
LOVM|#1, scale variation
LOC|#1, scale variation
LOVMC|#1, scale variation
σ per bin [pb]
MadGraph5_aMC@NLO
LO|#1 rel.unc.
Relative uncertainties w.r.t. central values
ratio w.r.t. LO|#1
(LOVM|#1LOC|#1LOVMC|#1)/(LO|#1 central value)


pttop
LO|#1, central value, dynamical_scale_choice=10
LOVM|#1, central value, dynamical_scale_choice=10
LOC|#1, central value, dynamical_scale_choice=10
LOVMC|#1, central value, dynamical_scale_choice=10
LO|#1, scale variation
LOVM|#1, scale variation
LOC|#1, scale variation
LOVMC|#1, scale variation
σ per bin [pb]
MadGraph5_aMC@NLO
LO|#1 rel.unc.
Relative uncertainties w.r.t. central values
ratio w.r.t. LO|#1
(LOVM|#1LOC|#1LOVMC|#1)/(LO|#1 central value)


ptatop
LO|#1, central value, dynamical_scale_choice=10
LOVM|#1, central value, dynamical_scale_choice=10
LOC|#1, central value, dynamical_scale_choice=10
LOVMC|#1, central value, dynamical_scale_choice=10
LO|#1, scale variation
LOVM|#1, scale variation
LOC|#1, scale variation
LOVMC|#1, scale variation
σ per bin [pb]
MadGraph5_aMC@NLO
LO|#1 rel.unc.
Relative uncertainties w.r.t. central values
ratio w.r.t. LO|#1
(LOVM|#1LOC|#1LOVMC|#1)/(LO|#1 central value)


mmumu
LO|#1, central value, dynamical_scale_choice=10
LOVM|#1, central value, dynamical_scale_choice=10
LOC|#1, central value, dynamical_scale_choice=10
LOVMC|#1, central value, dynamical_scale_choice=10
LO|#1, scale variation
LOVM|#1, scale variation
LOC|#1, scale variation
LOVMC|#1, scale variation
σ per bin [pb]
MadGraph5_aMC@NLO
LO|#1 rel.unc.
Relative uncertainties w.r.t. central values
ratio w.r.t. LO|#1
(LOVM|#1LOC|#1LOVMC|#1)/(LO|#1 central value)


thetamup
LO|#1, central value, dynamical_scale_choice=10
LOVM|#1, central value, dynamical_scale_choice=10
LOC|#1, central value, dynamical_scale_choice=10
LOVMC|#1, central value, dynamical_scale_choice=10
LO|#1, scale variation
LOVM|#1, scale variation
LOC|#1, scale variation
LOVMC|#1, scale variation
σ per bin [pb]
MadGraph5_aMC@NLO
LO|#1 rel.unc.
Relative uncertainties w.r.t. central values
ratio w.r.t. LO|#1
(LOVM|#1LOC|#1LOVMC|#1)/(LO|#1 central value)


thetamum
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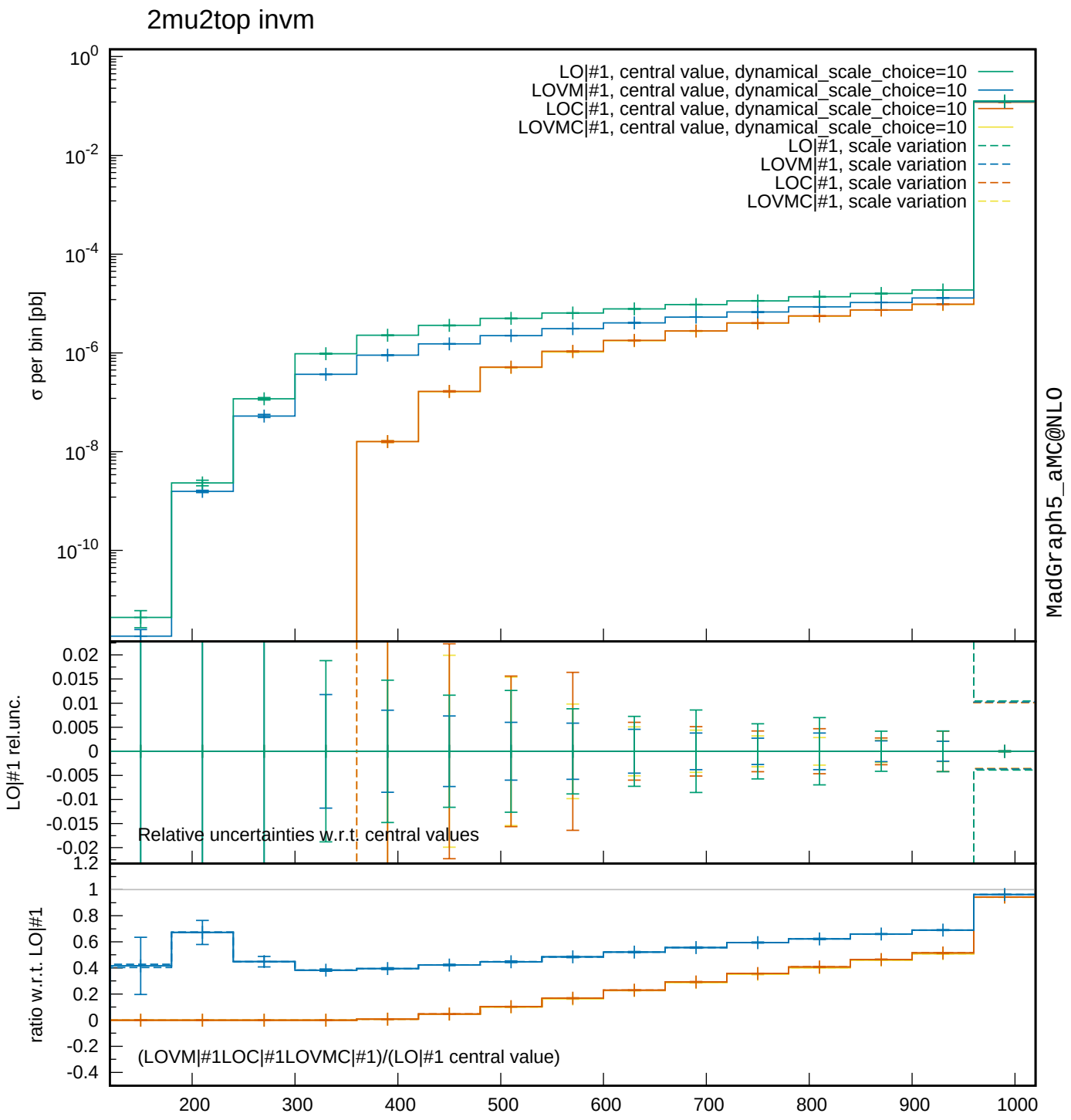
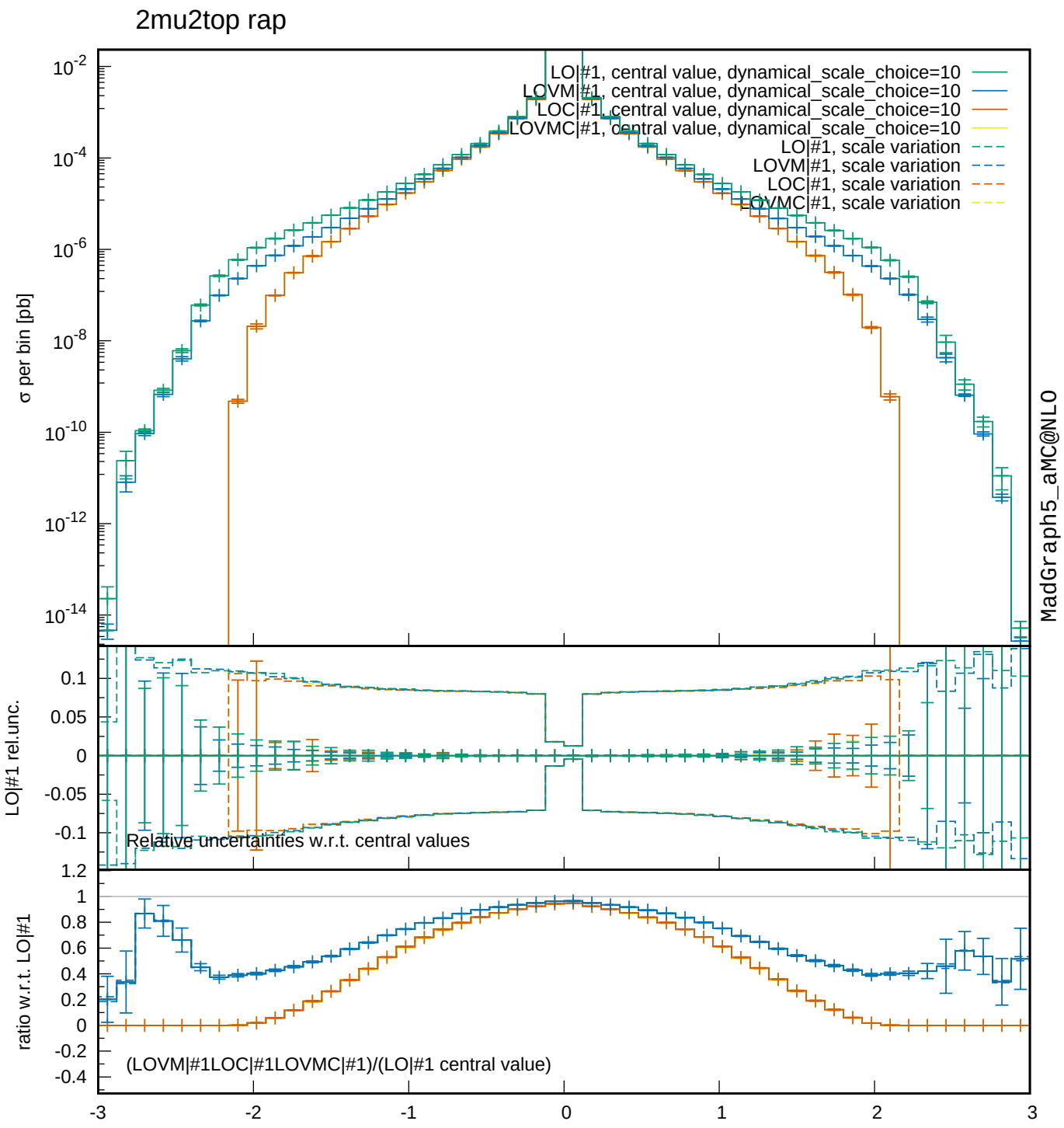
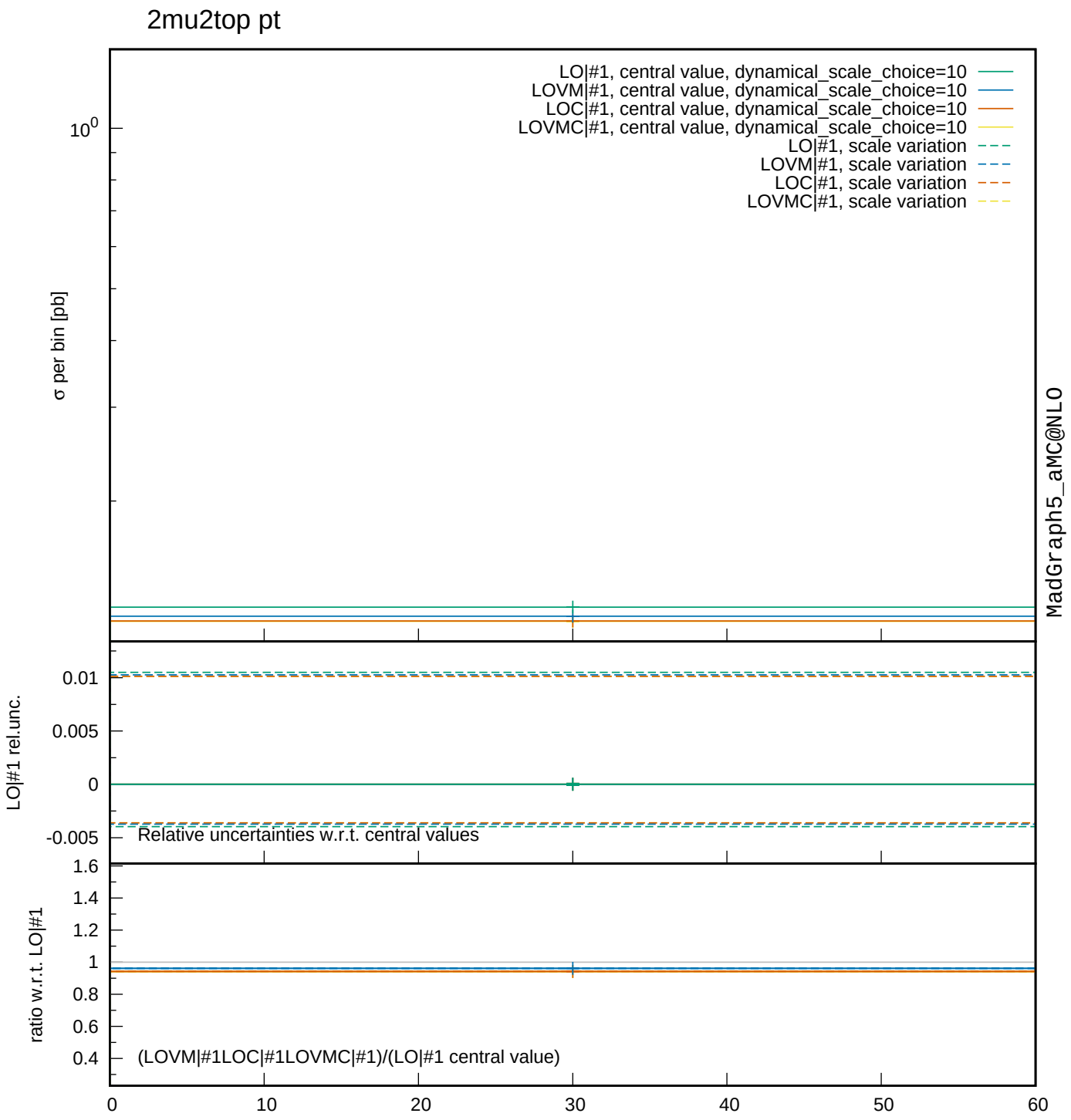
LOVM|#1, central value, dynamical_scale_choice=10
LOC|#1, central value, dynamical_scale_choice=10
LOVMC|#1, central value, dynamical_scale_choice=10
LO|#1, scale variation
LOVM|#1, scale variation
LOC|#1, scale variation
LOVMC|#1, scale variation
σ per bin [pb]
MadGraph5_aMC@NLO
LO|#1 rel.unc.
Relative uncertainties w.r.t. central values
ratio w.r.t. LO|#1
(LOVM|#1LOC|#1LOVMC|#1)/(LO|#1 central value)


2mu2top invm
LO|#1, central value, dynamical_scale_choice=10
LOVM|#1, central value, dynamical_scale_choice=10
LOC|#1, central value, dynamical_scale_choice=10
LOVMC|#1, central value, dynamical_scale_choice=10
LO|#1, scale variation
LOVM|#1, scale variation
LOC|#1, scale variation
LOVMC|#1, scale variation
σ per bin [pb]
LO|#1 rel.unc.
Relative uncertainties w.r.t. central values
ratio w.r.t. LO|#1
(LOVM|#1LOC|#1LOVMC|#1)/(LO|#1 central value)
MadGraph5_aMC@NLO


2mu2top rap
LO|#1, central value, dynamical_scale_choice=10
LOVM|#1, central value, dynamical_scale_choice=10
LOC|#1, central value, dynamical_scale_choice=10
LOVMC|#1, central value, dynamical_scale_choice=10
LO|#1, scale variation
LOVM|#1, scale variation
LOC|#1, scale variation
LOVMC|#1, scale variation
σ per bin [pb]
MadGraph5_aMC@NLO
LO|#1 rel.unc.
Relative uncertainties w.r.t. central values
ratio w.r.t. LO|#1
(LOVM|#1LOC|#1LOVMC|#1)/(LO|#1 central value)


2mu2top pt
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LOVM|#1, central value, dynamical_scale_choice=10
LOC|#1, central value, dynamical_scale_choice=10
LOVMC|#1, central value, dynamical_scale_choice=10
LO|#1, scale variation
LOVM|#1, scale variation
LOC|#1, scale variation
LOVMC|#1, scale variation
σ per bin [pb]
MadGraph5_aMC@NLO
LO|#1 rel.unc.
Relative uncertainties w.r.t. central values
ratio w.r.t. LO|#1
(LOVM|#1LOC|#1LOVMC|#1)/(LO|#1 central value)