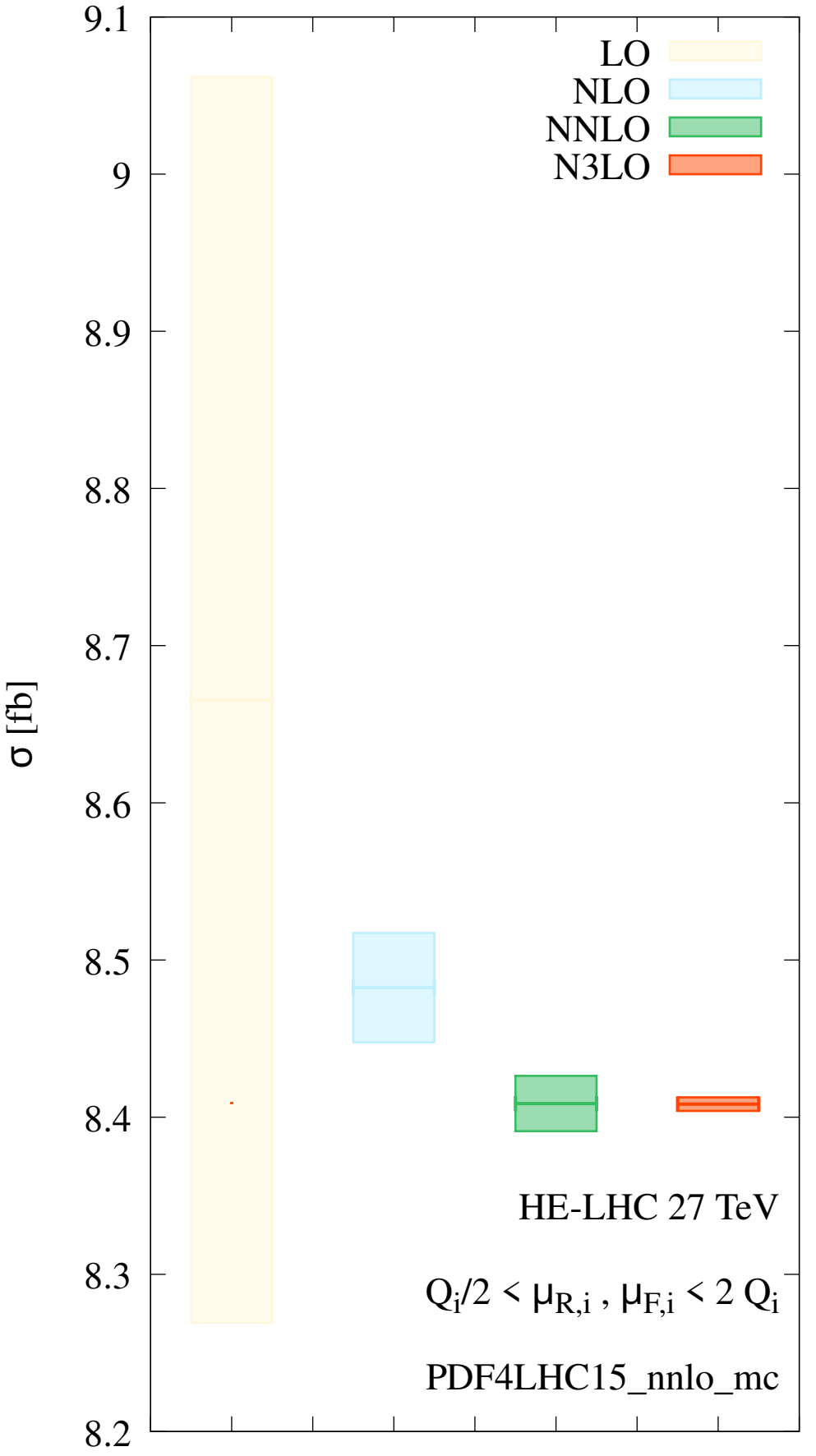
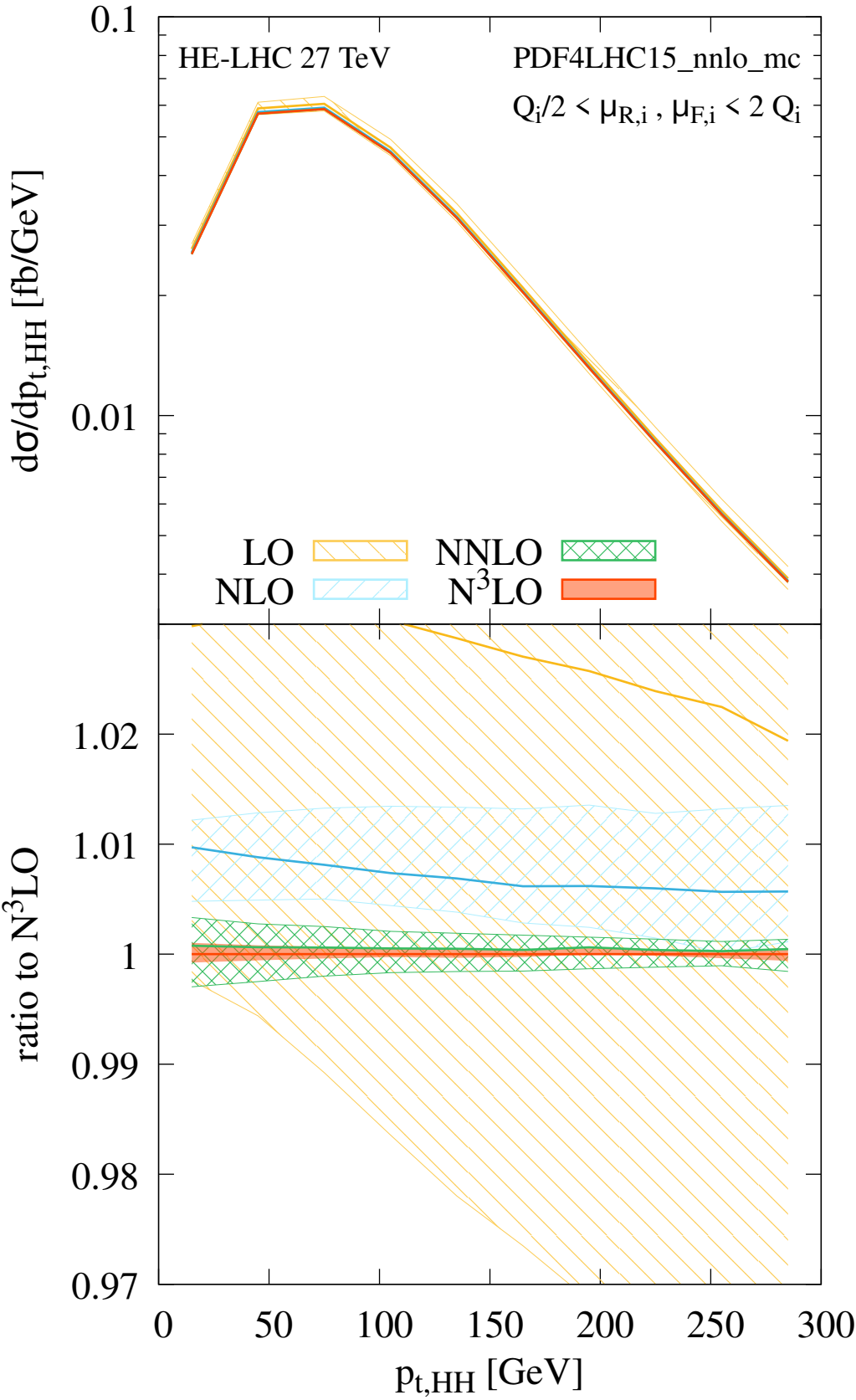
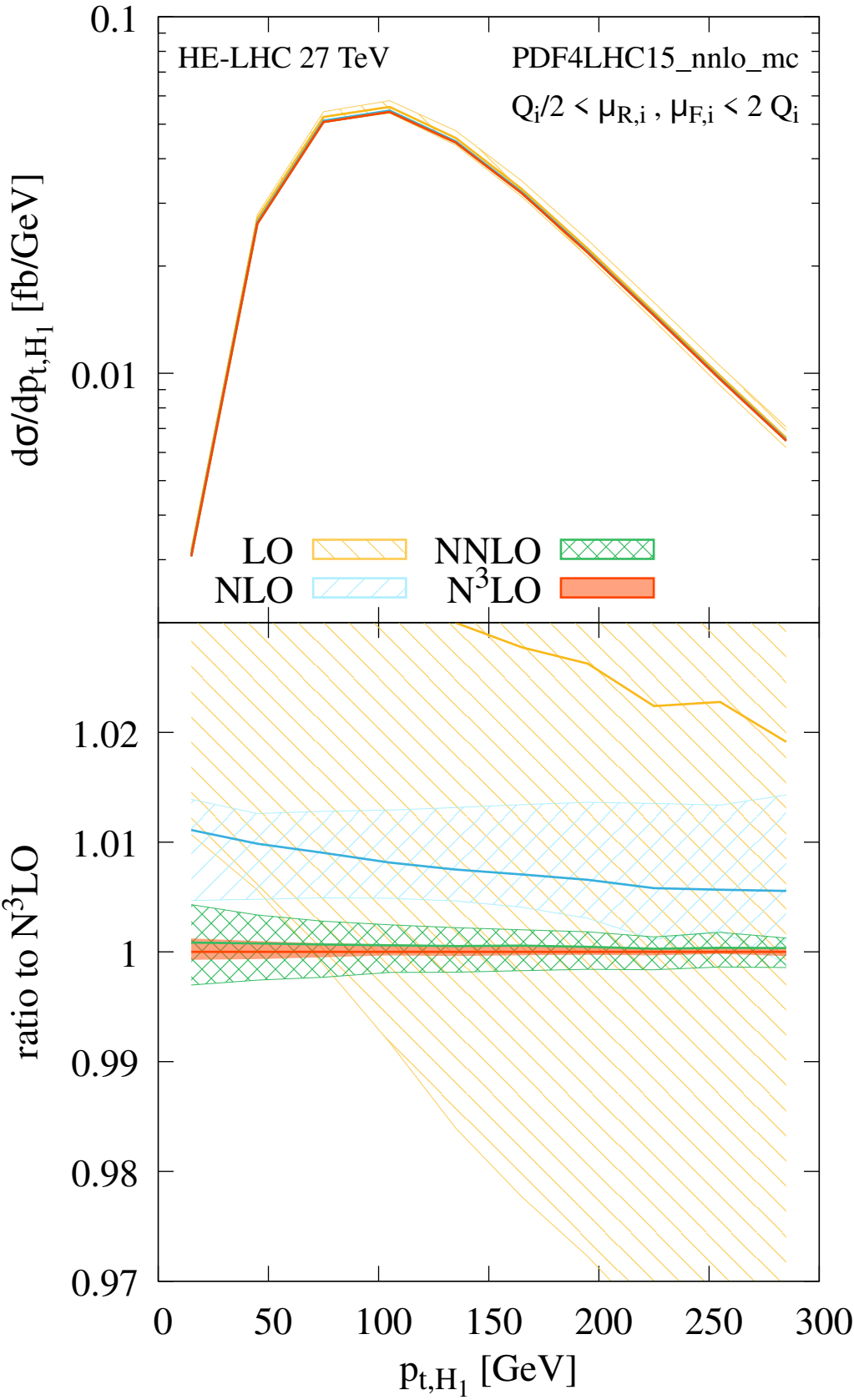
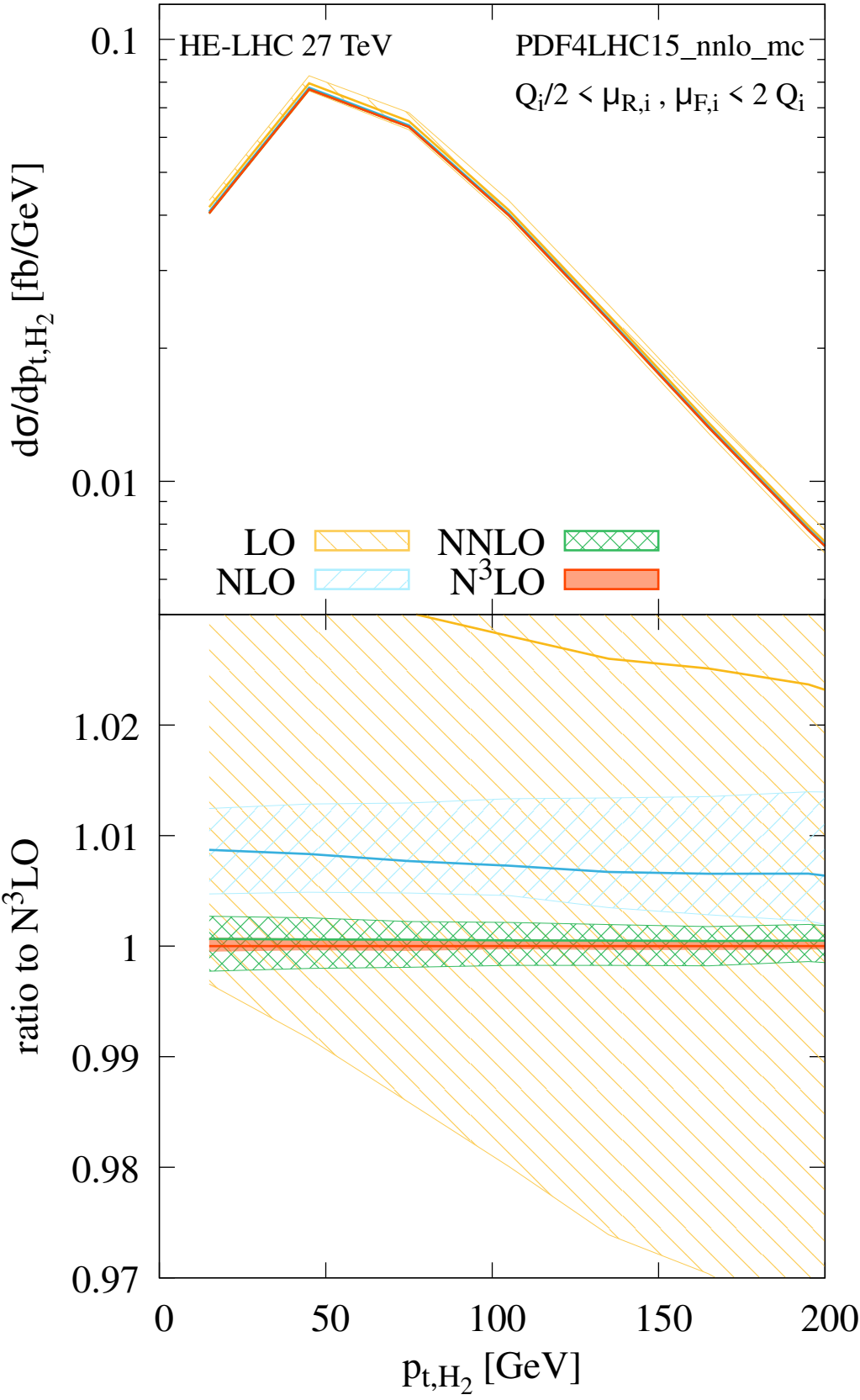
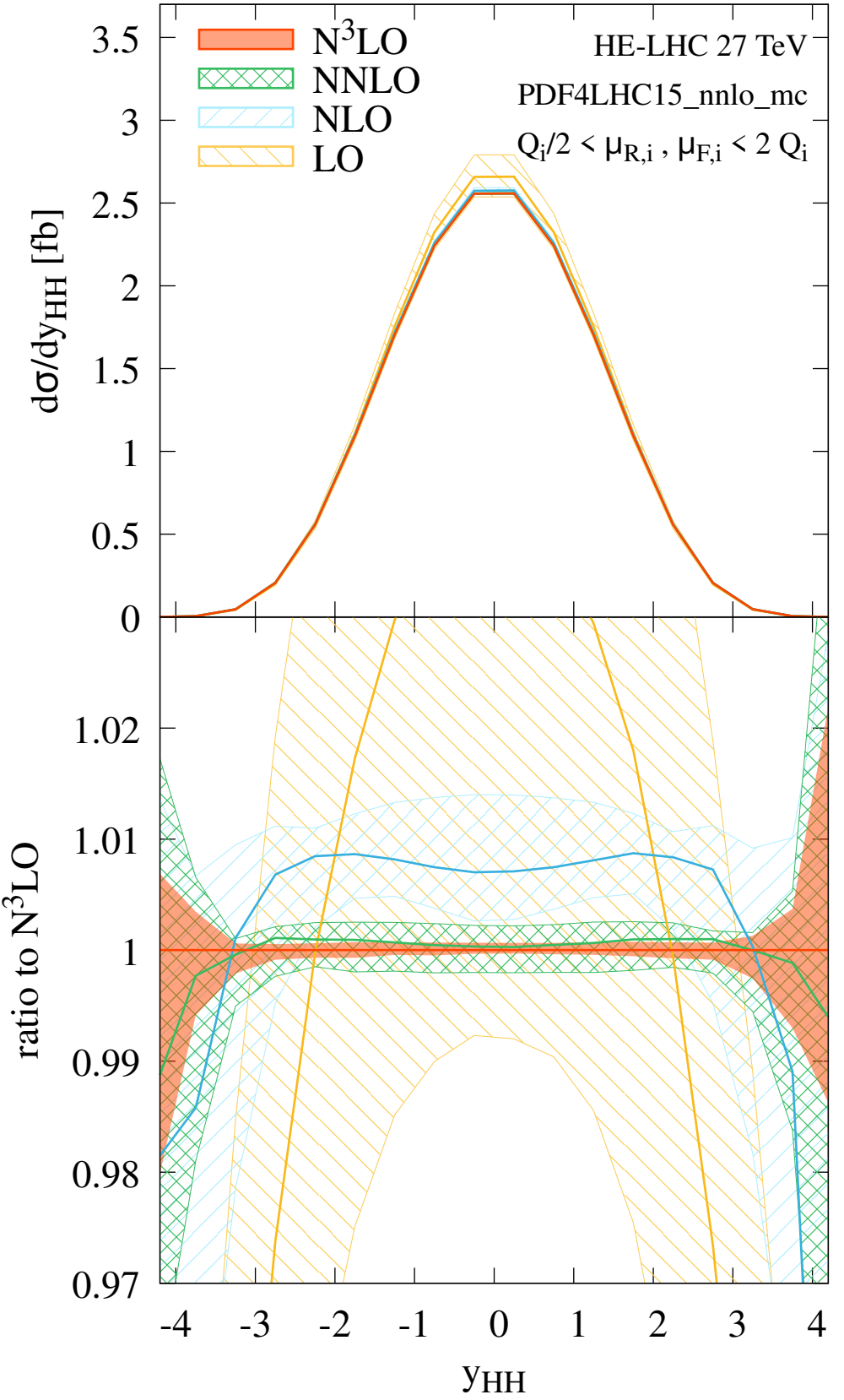
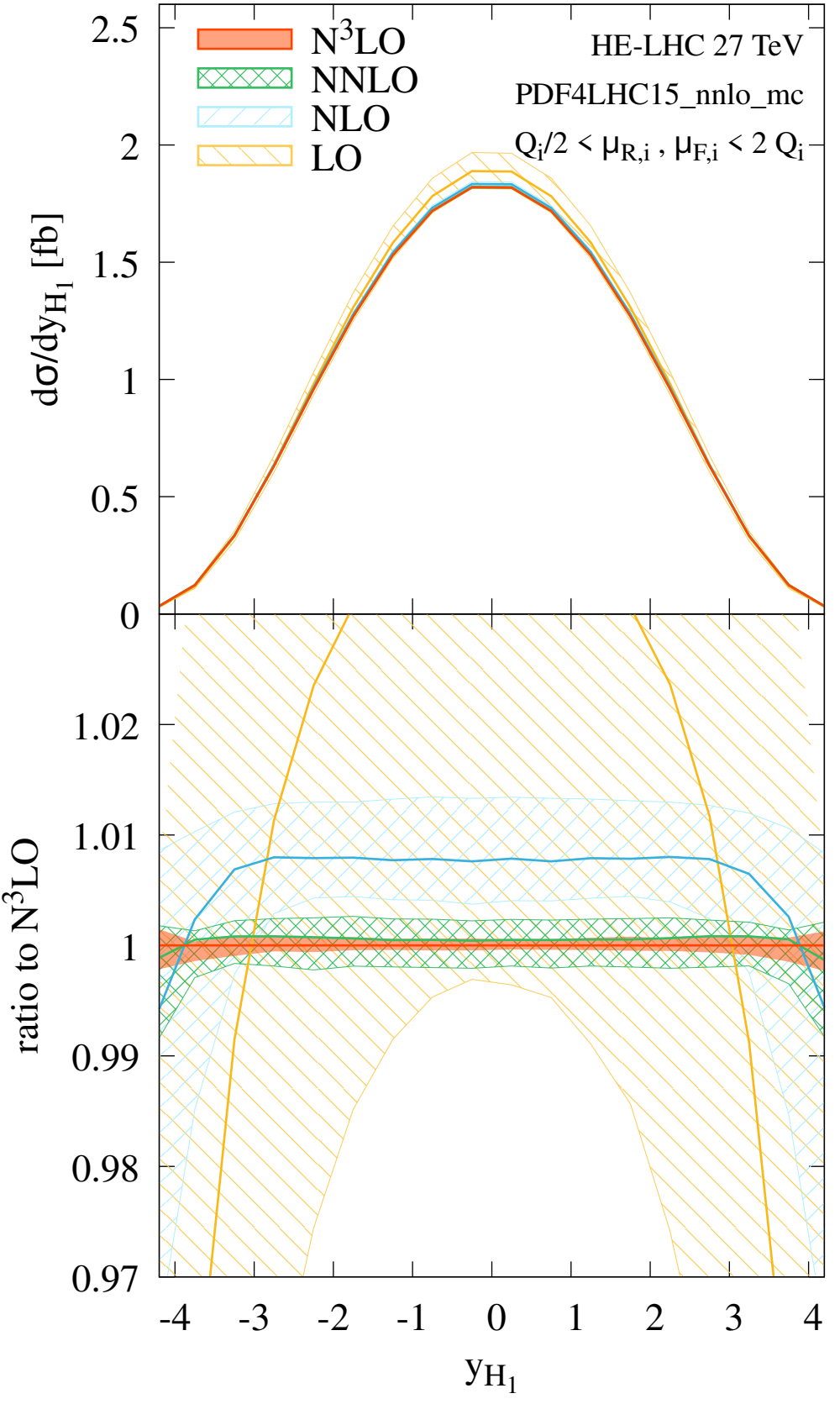

LO
NLO
NNLO
N3LO
9.1
9
8.9
8.8
8.7
8.6
8.5
8.4
8.3
8.2
σ [fb]
HE-LHC 27 TeV
Q_i/2 < μ_R,i , μ_F,i < 2 Q_i
PDF4LHC15_nnlo_mc

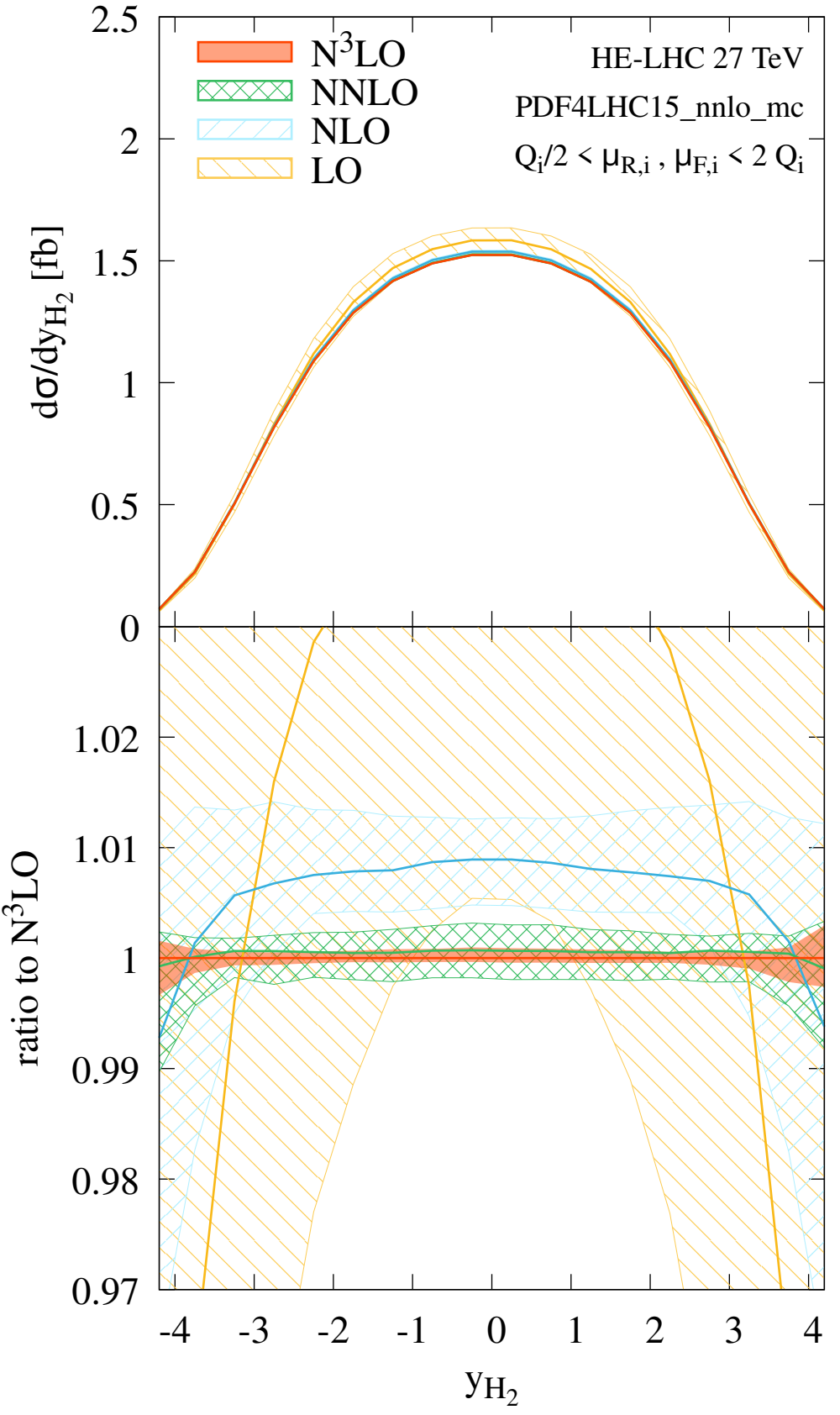

HE-LHC 27 TeV
PDF4LHC15_nnlo_mc
$Q_i/2 < \mu_{R,i}, \mu_{F,i} < 2\,Q_i$
LO
NLO
NNLO
N^{3}LO
$d\sigma/dp_{t,HH}$ [fb/GeV]
ratio to N^{3}LO
$p_{t,HH}$ [GeV]
0.1
0.01
1.02
1.01
1
0.99
0.98
0.97
0
50
100
150
200
250
300

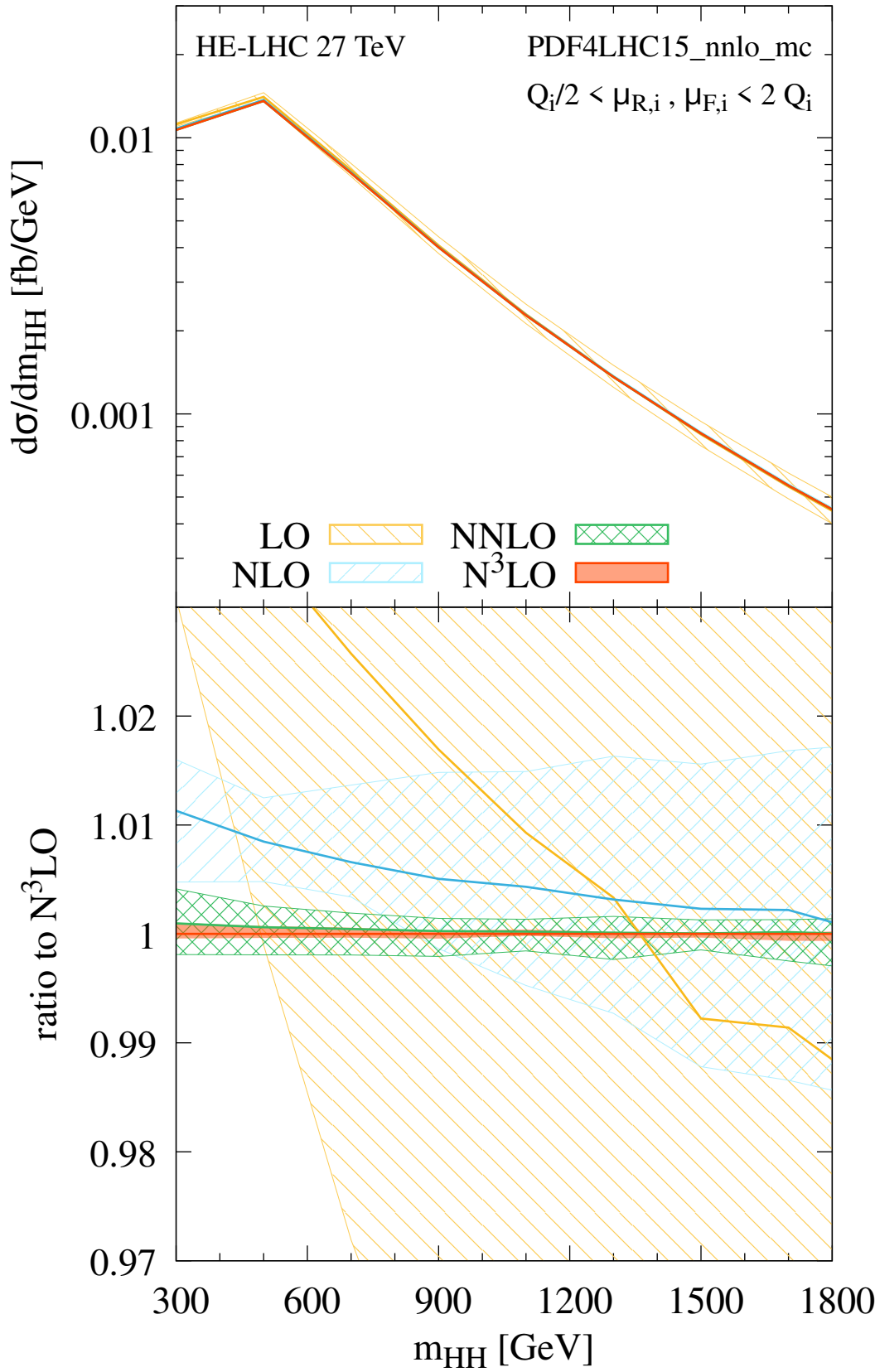

HE-LHC 27 TeV
PDF4LHC15_nnlo_mc
$Q_i/2 < \mu_{R,i}, \mu_{F,i} < 2\,Q_i$
LO
NLO
NNLO
N^{3}LO
$d\sigma/dp_{t,H_1}$ [fb/GeV]
ratio to N^{3}LO
p_{t,H_1} [GeV]
0.1
0.01
1.02
1.01
1
0.99
0.98
0.97
0
50
100
150
200
250
300

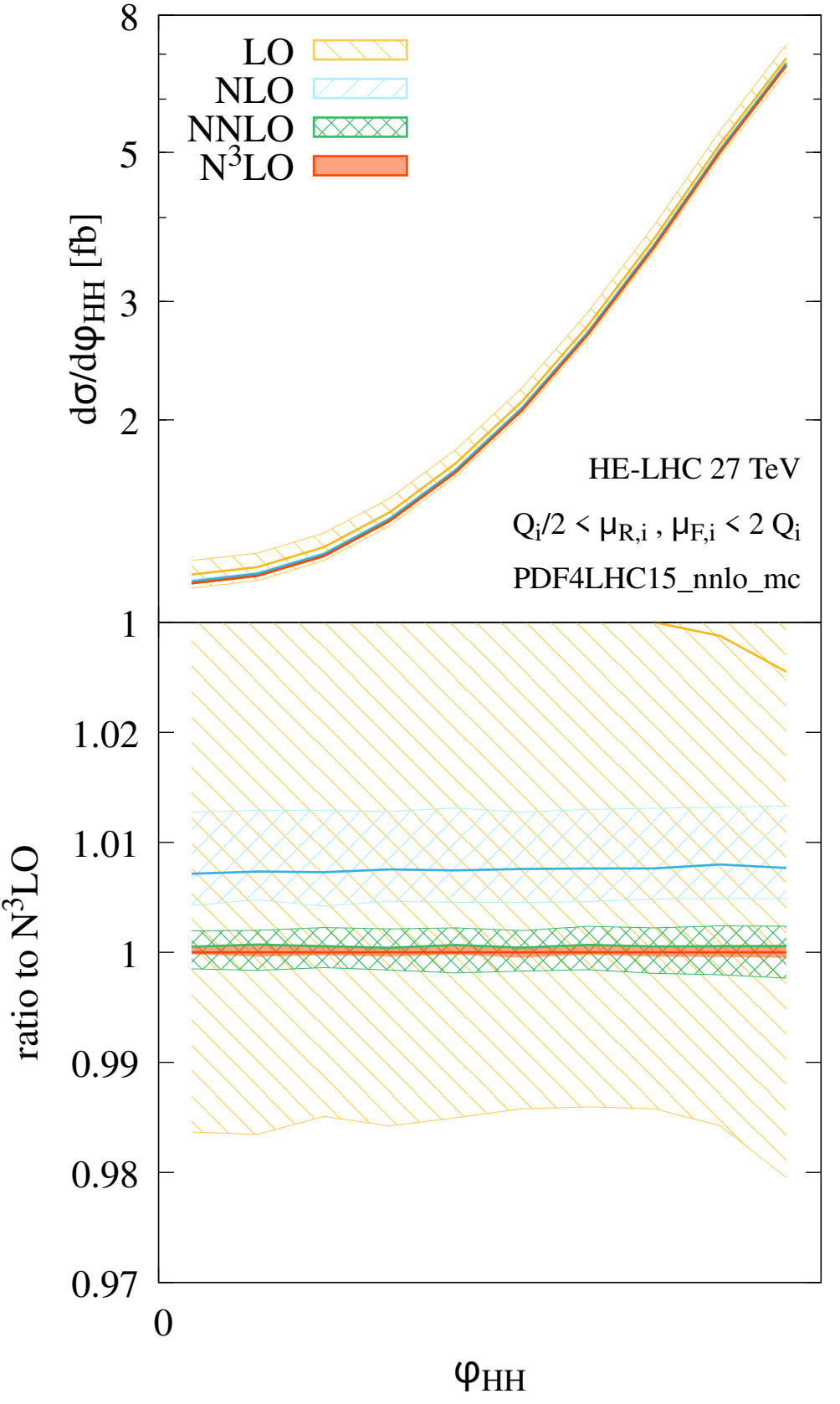

HE-LHC 27 TeV
PDF4LHC15_nnlo_mc
$Q_i/2 < \mu_{R,i}, \mu_{F,i} < 2\,Q_i$
LO
NLO
NNLO
N^{3}LO
$d\sigma/dp_{t,H_2}$ [fb/GeV]
ratio to N^{3}LO
p_{t,H_2} [GeV]
0.1
0.01
1.02
1.01
1
0.99
0.98
0.97
0
50
100
150
200


N3LO
NNLO
NLO
LO
HE-LHC 27 TeV
PDF4LHC15_nnlo_mc
Qi/2 < μR,i , μF,i < 2 Qi
dσ/dyHH [fb]
3.5
3
2.5
2
1.5
1
0.5
0
ratio to N3LO
1.02
1.01
1
0.99
0.98
0.97
-4
-3
-2
-1
0
1
2
3
4
yHH


N3LO
NNLO
NLO
LO
HE-LHC 27 TeV
PDF4LHC15_nnlo_mc
Qi/2 < μR,i , μF,i < 2 Qi
dσ/dyH1 [fb]
2.5
2
1.5
1
0.5
0
ratio to N3LO
1.02
1.01
1
0.99
0.98
0.97
-4
-3
-2
-1
0
1
2
3
4
yH1


N3LO
NNLO
NLO
LO
HE-LHC 27 TeV
PDF4LHC15_nnlo_mc
Qi/2 < μR,i , μF,i < 2 Qi
dσ/dyH2 [fb]
2.5
2
1.5
1
0.5
0
ratio to N3LO
1.02
1.01
1
0.99
0.98
0.97
-4
-3
-2
-1
0
1
2
3
4
yH2


HE-LHC 27 TeV
PDF4LHC15_nnlo_mc
$Q_i/2 < \mu_{R,i}, \mu_{F,i} < 2\,Q_i$
LO
NLO
NNLO
N^{3}LO
$d\sigma/dm_{HH}$ [fb/GeV]
0.01
0.001
ratio to N^{3}LO
1.02
1.01
1
0.99
0.98
0.97
300
600
900
1200
1500
1800
m_{HH} [GeV]


LO
NLO
NNLO
N3LO
HE-LHC 27 TeV
Qi/2 < μR,i , μF,i < 2 Qi
PDF4LHC15_nnlo_mc
dσ/dφHH [fb]
ratio to N3LO
φHH
8
5
3
2
1
1.02
1.01
1
0.99
0.98
0.97
0