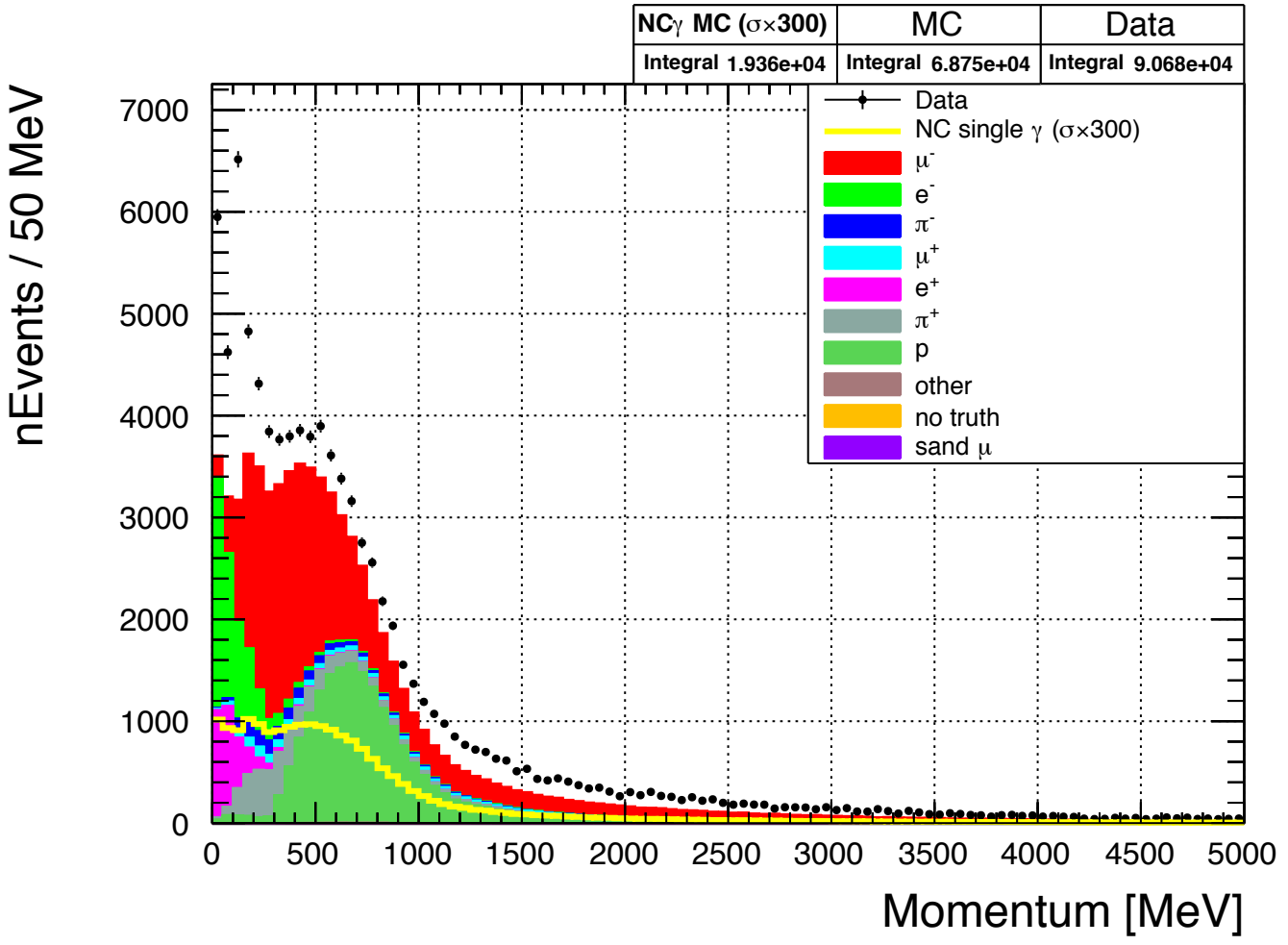
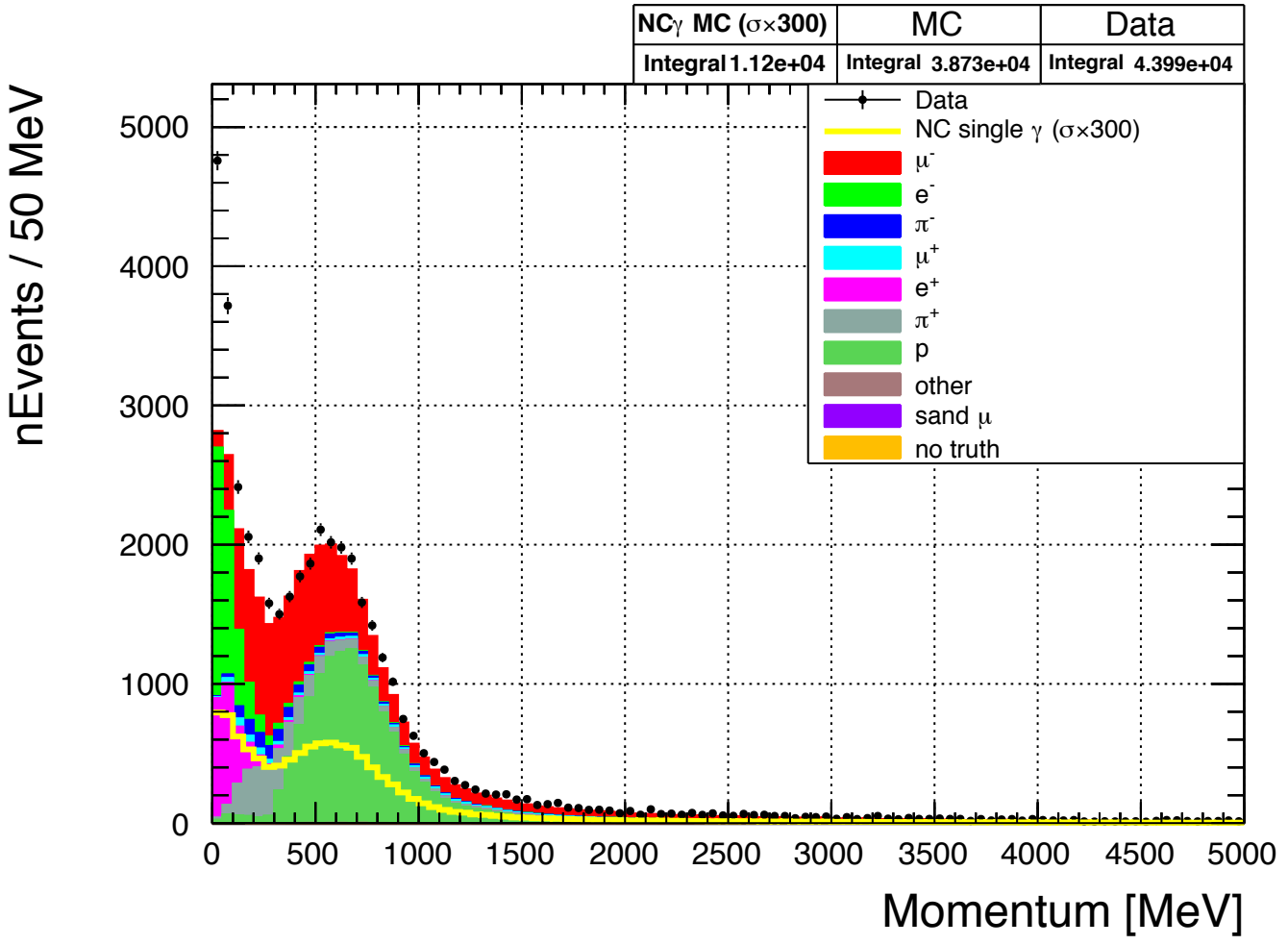
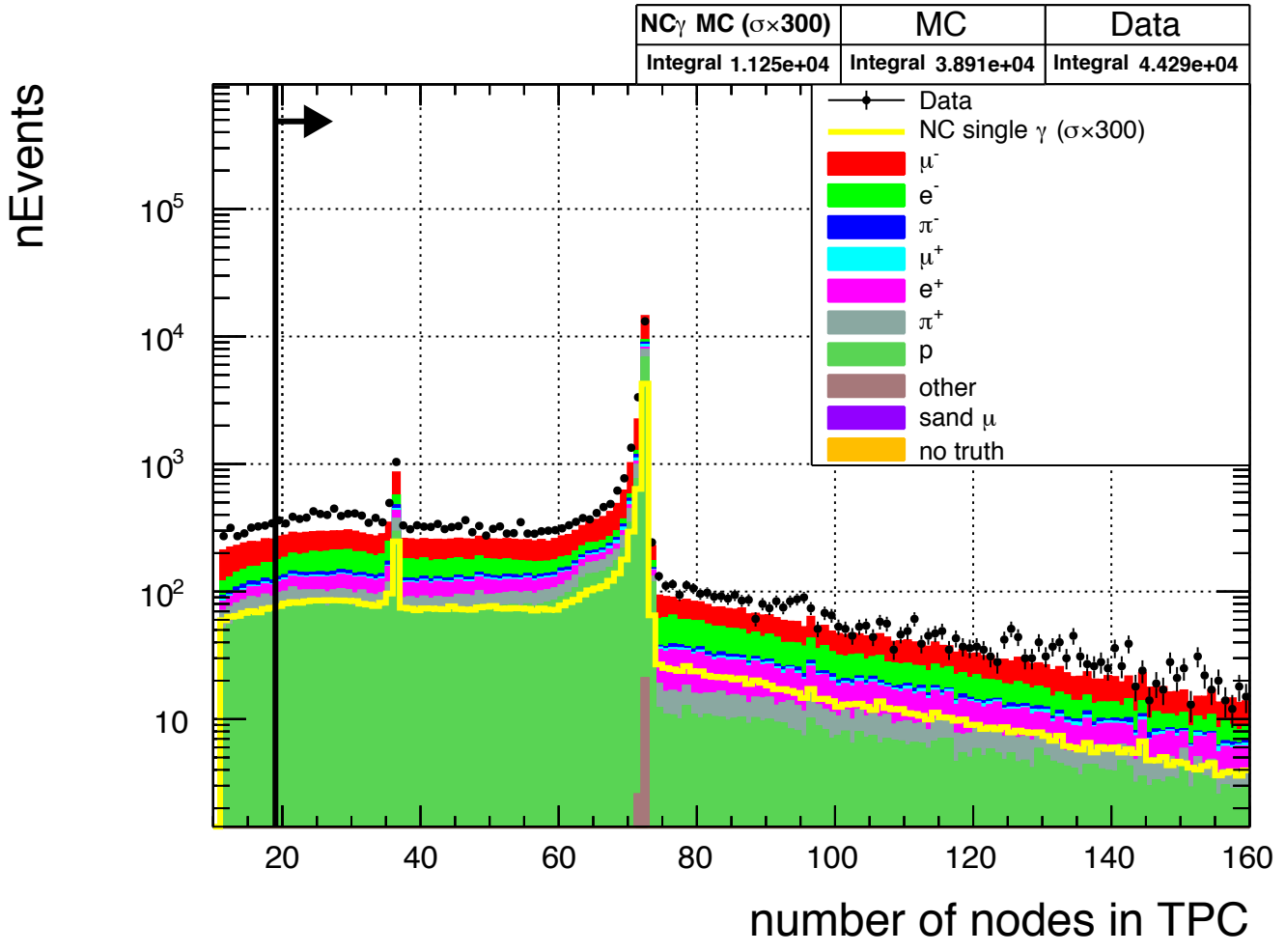
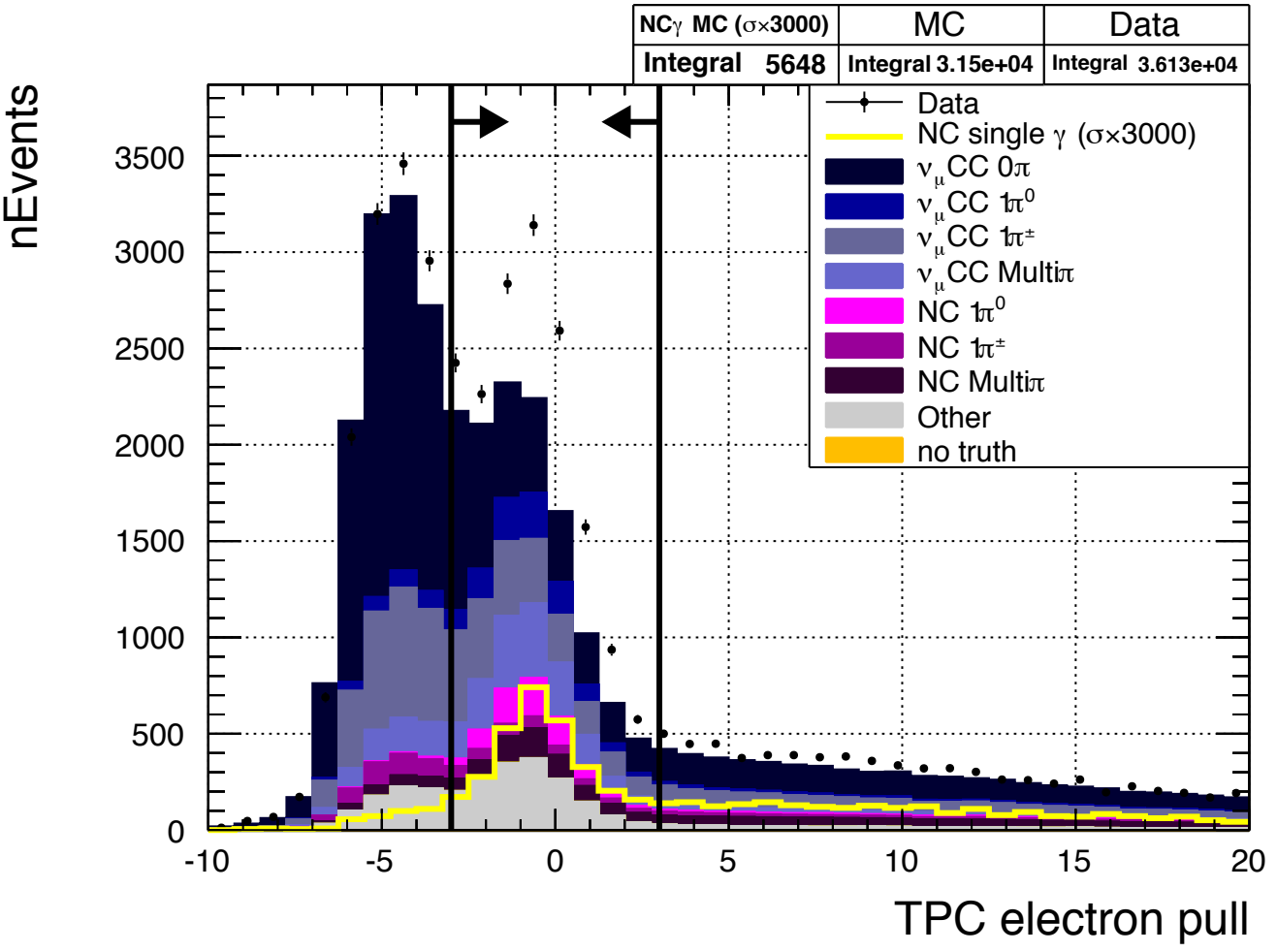
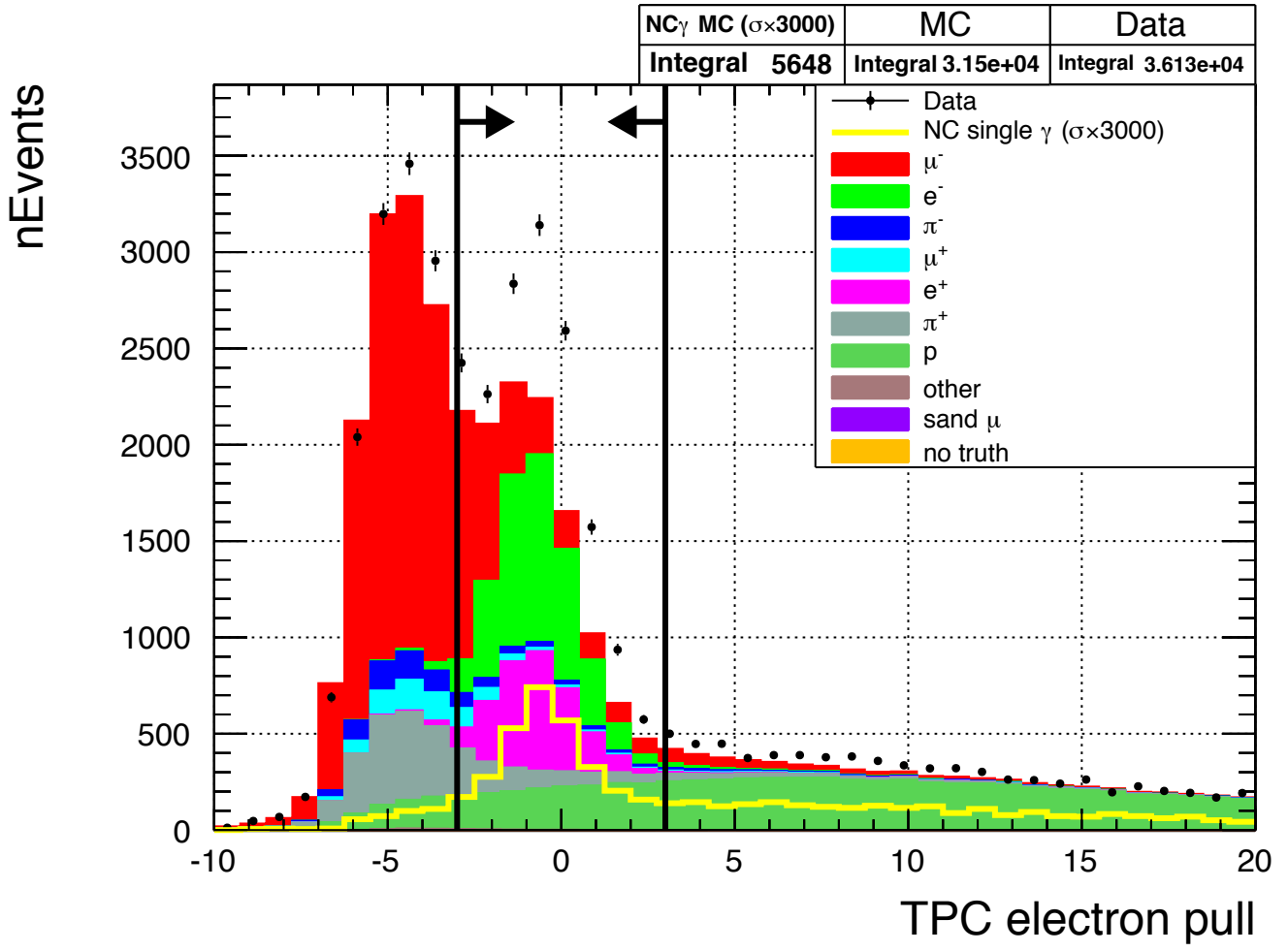
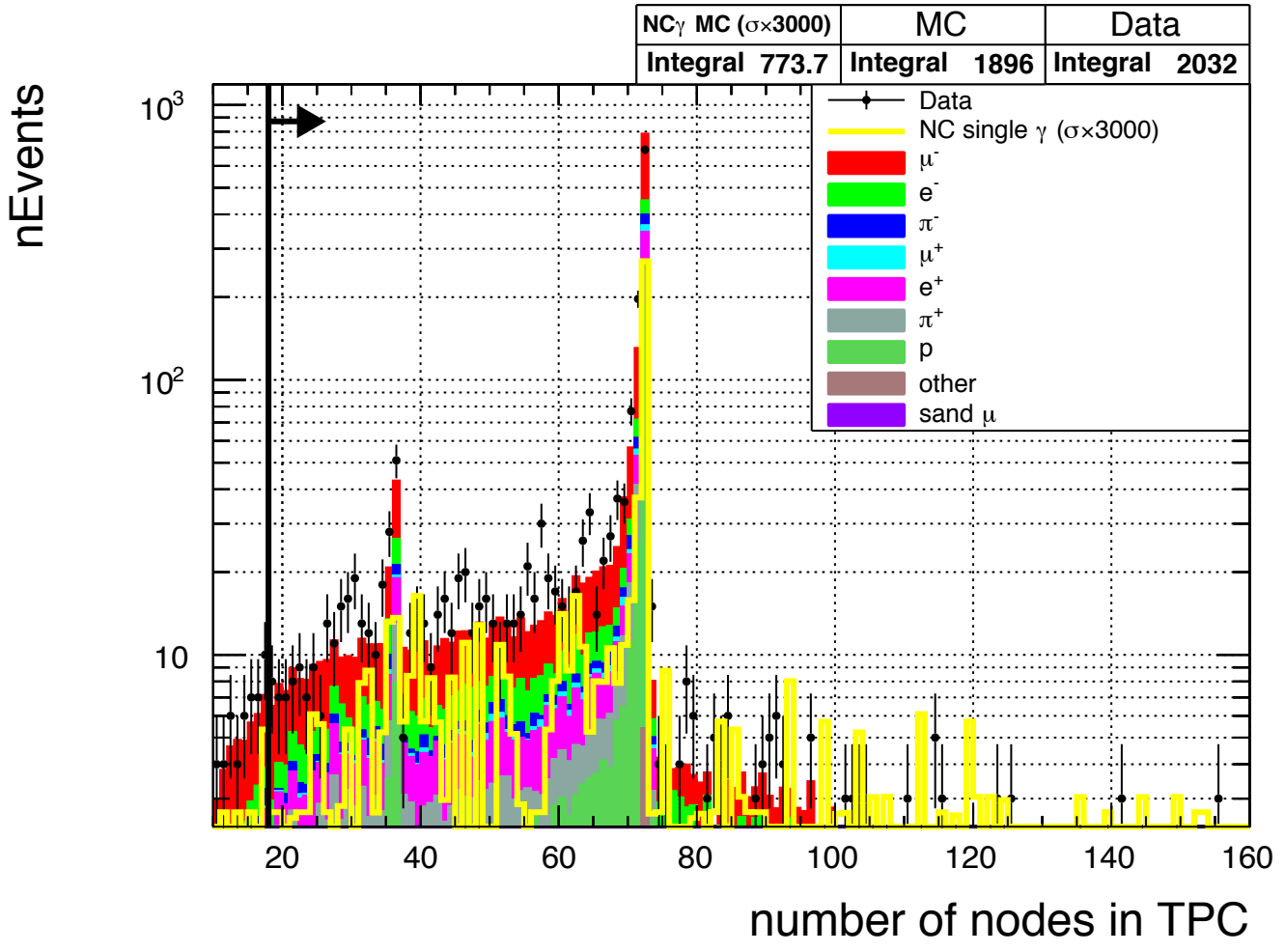

NCγ MC (σ×300)
MC
Data
Integral 1.936e+04
Integral 6.875e+04
Integral 9.068e+04
Data
NC single γ (σ×300)
μ-
e-
π-
μ+
e+
π+
p
other
no truth
sand μ
nEvents / 50 MeV
Momentum [MeV]
0
1000
2000
3000
4000
5000
6000
7000
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000

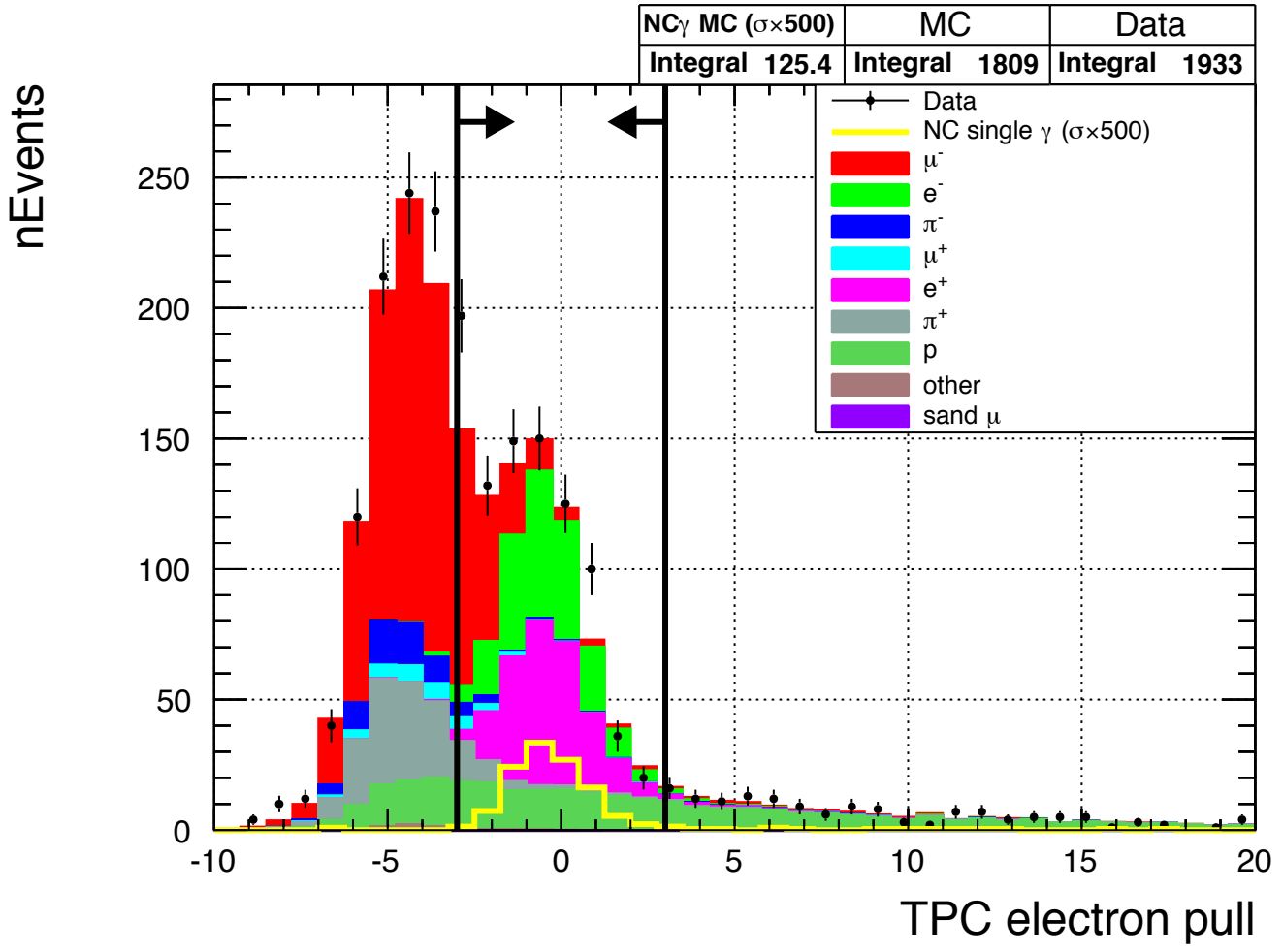

NCγ MC (σ×300)
MC
Data
Integral 1.12e+04
Integral 3.873e+04
Integral 4.399e+04
Data
NC single γ (σ×300)
μ-
e-
π-
μ+
e+
π+
p
other
sand μ
no truth
nEvents / 50 MeV
Momentum [MeV]
0
1000
2000
3000
4000
5000
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000

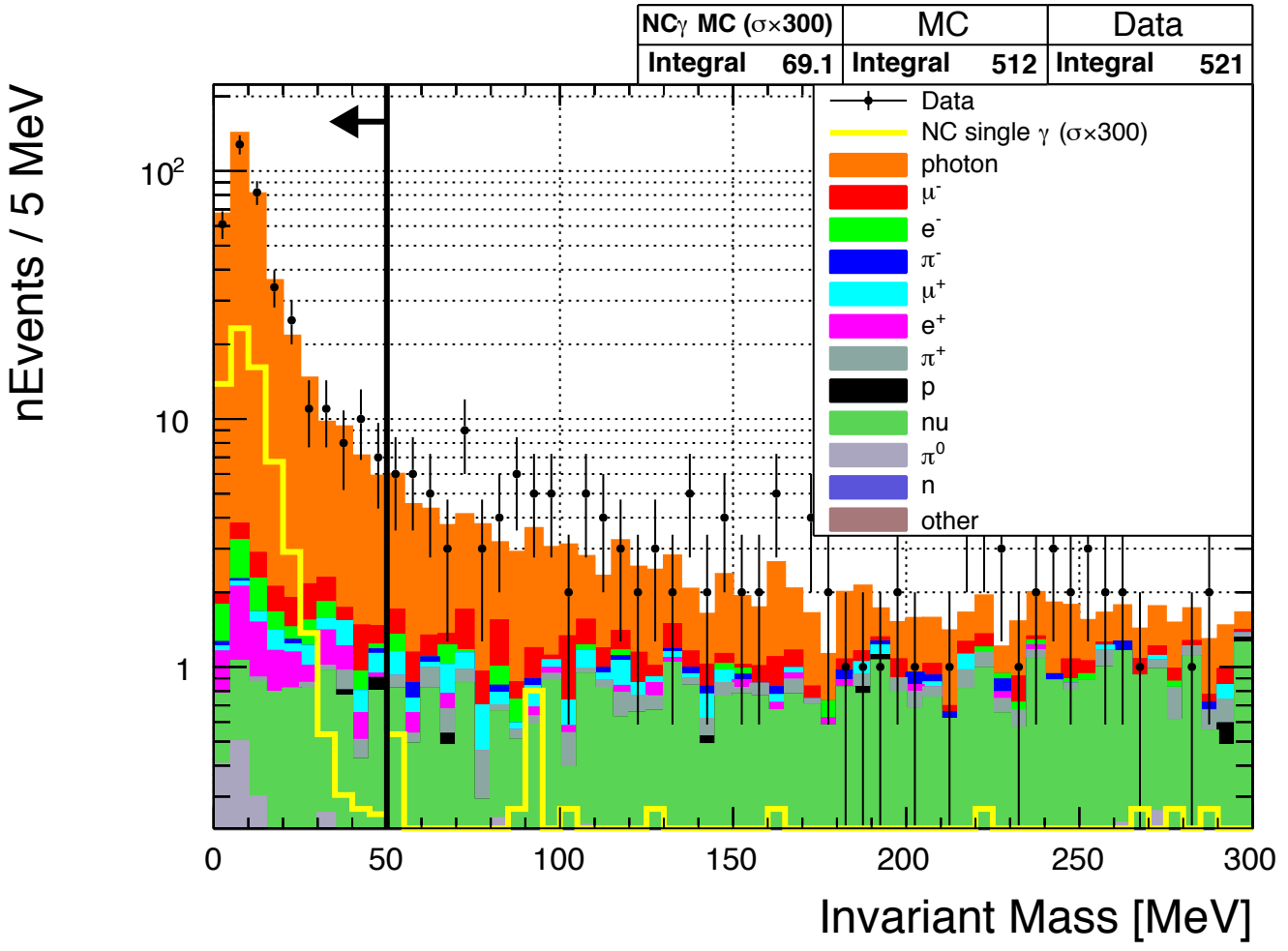

NCγ MC (σ×300)
Integral 1.125e+04
MC
Integral 3.891e+04
Data
Integral 4.429e+04
Data
NC single γ (σ×300)
μ-
e-
π-
μ+
e+
π+
p
other
sand μ
no truth
nEvents
10^5
10^4
10^3
10^2
10
20
40
60
80
100
120
140
160
number of nodes in TPC

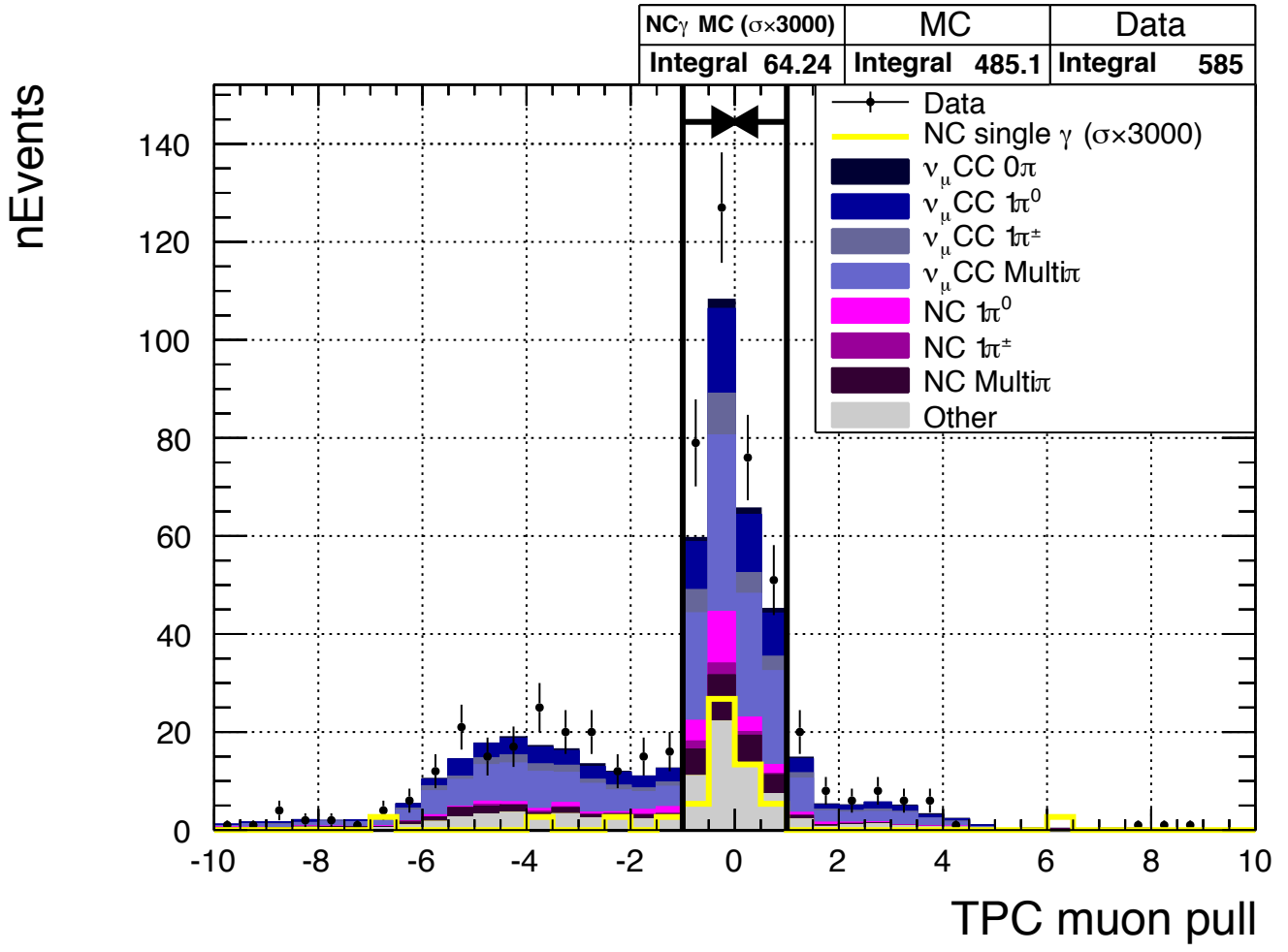

NCγ MC (σ×3000)
MC
Data
Integral 5648
Integral 3.15e+04
Integral 3.613e+04
Data
NC single γ (σ×3000)
ν_μCC 0π
ν_μCC 1π^0
ν_μCC 1$\pi^\pm$
ν_μCC Multiπ
NC 1π^0
NC 1$\pi^\pm$
NC Multiπ
Other
no truth
nEvents
0
500
1000
1500
2000
2500
3000
3500
-10
-5
0
5
10
15
20
TPC electron pull

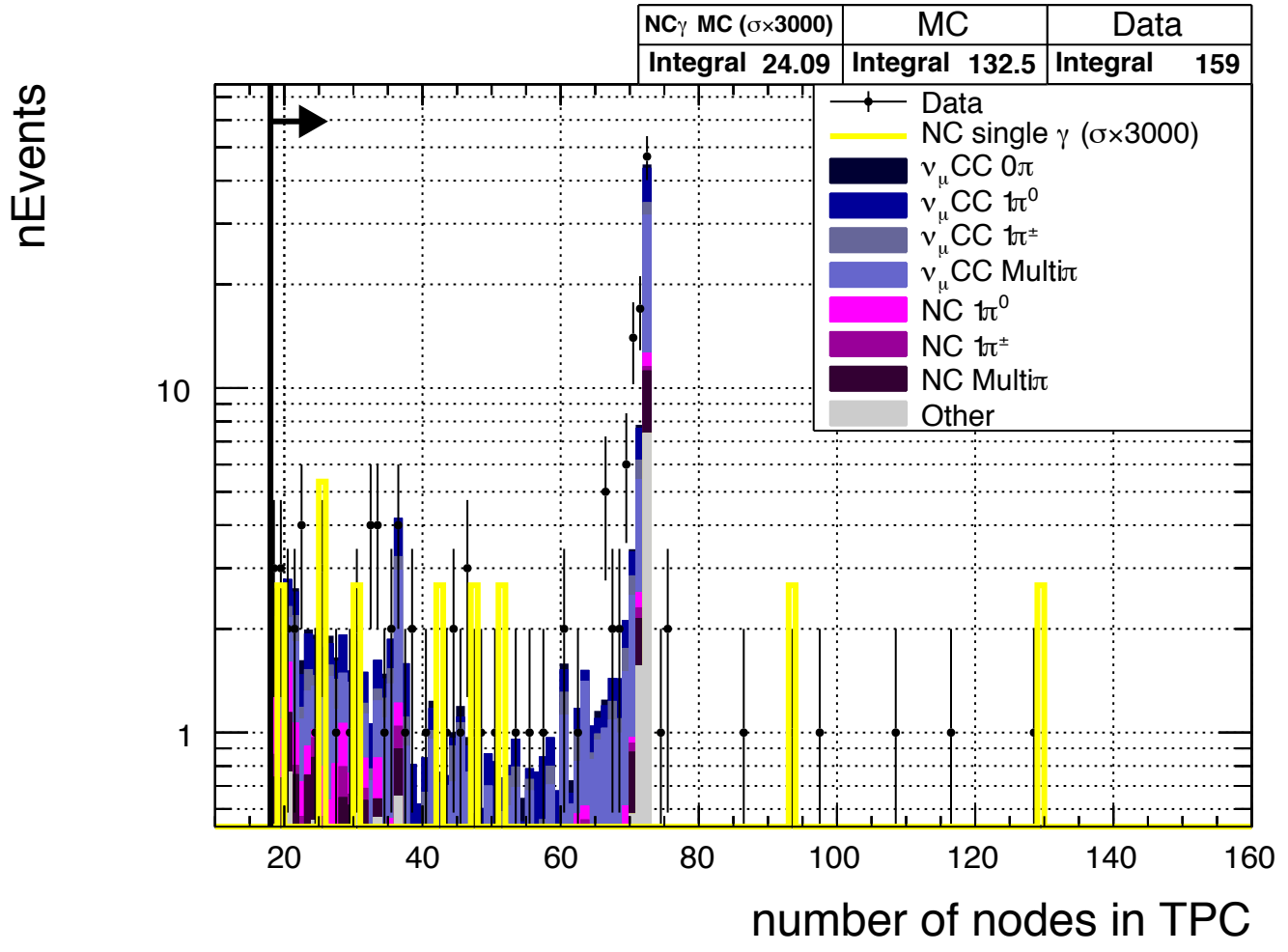

NCγ MC (σ×3000)
MC
Data
Integral 5648
Integral 3.15e+04
Integral 3.613e+04
Data
NC single γ (σ×3000)
μ-
e-
π-
μ+
e+
π+
p
other
sand μ
no truth
nEvents
3500
3000
2500
2000
1500
1000
500
0
-10
-5
0
5
10
15
20
TPC electron pull

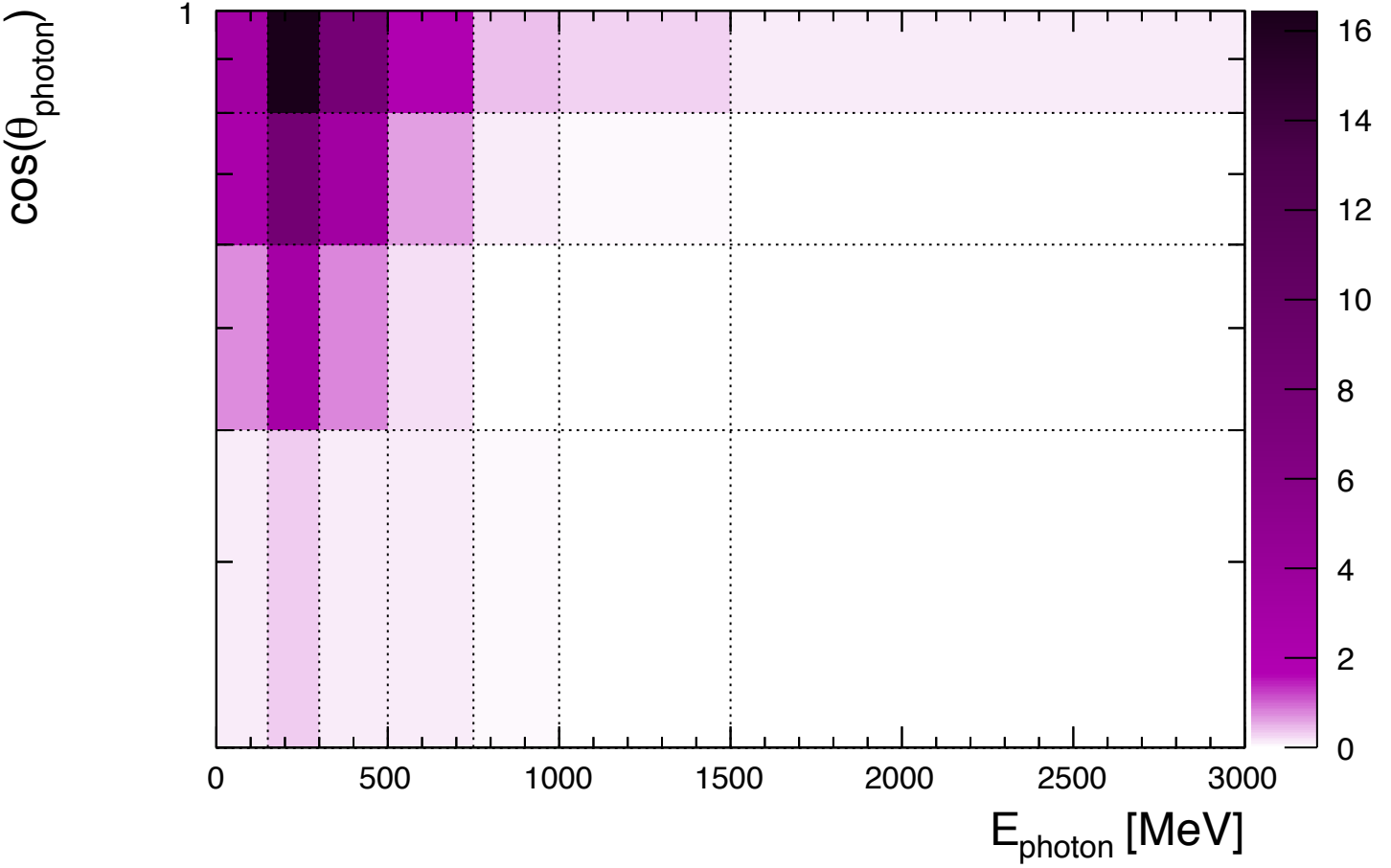

NCγ MC (σ×3000)
Integral 773.7
MC
Integral 1896
Data
Integral 2032
Data
NC single γ (σ×3000)
μ-
e-
π-
μ+
e+
π+
p
other
sand μ
nEvents
10³
10²
10
20
40
60
80
100
120
140
160
number of nodes in TPC

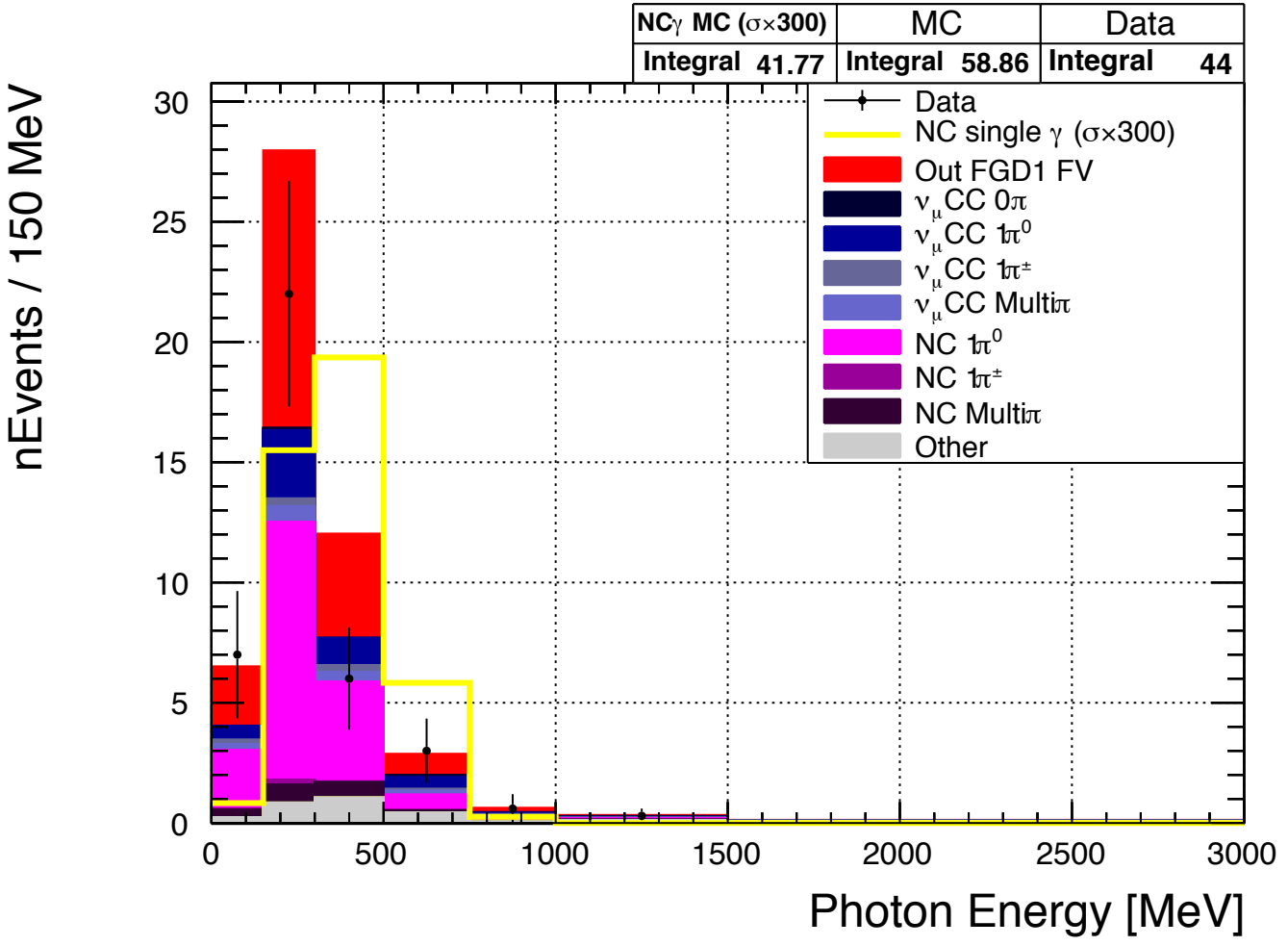

NCγ MC (σ×500)
Integral 125.4
MC
Integral 1809
Data
Integral 1933
Data
NC single γ (σ×500)
μ-
e-
π-
μ+
e+
π+
p
other
sand μ
nEvents
250
200
150
100
50
0
-10
-5
0
5
10
15
20
TPC electron pull

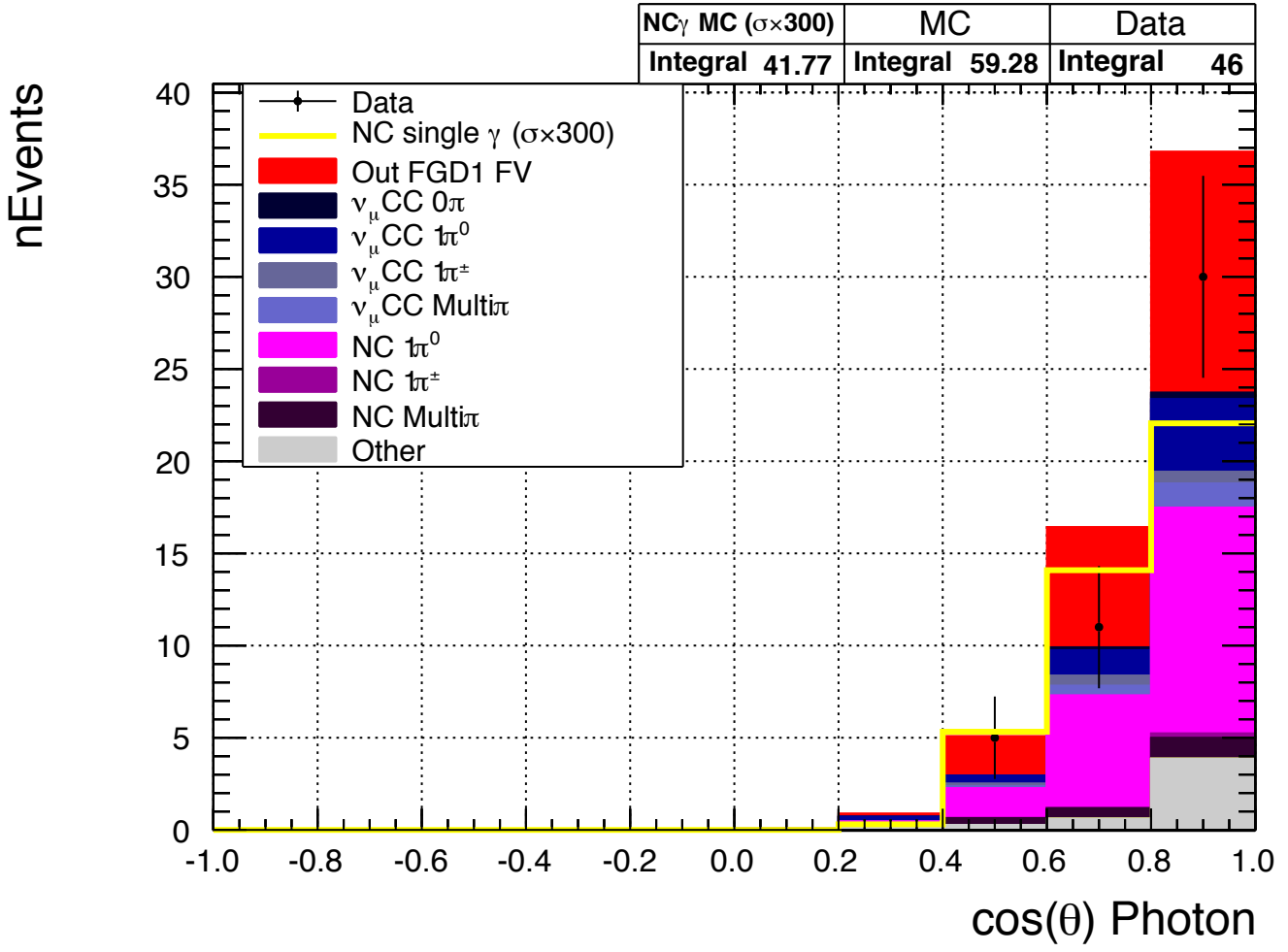

NCγ MC (σ×300)
Integral 69.1
MC
Integral 512
Data
Integral 521
Data
NC single γ (σ×300)
photon
μ-
e-
π-
μ+
e+
π+
p
nu
π0
n
other
nEvents / 5 MeV
10²
10
1
0
50
100
150
200
250
300
Invariant Mass [MeV]


NCγ MC (σ×3000)
Integral 64.24
MC
Integral 485.1
Data
Integral 585
Data
NC single γ (σ×3000)
ν_μCC 0π
ν_μCC 1π^0
ν_μCC 1$\pi^\pm$
ν_μCC Multiπ
NC 1π^0
NC 1$\pi^\pm$
NC Multiπ
Other
nEvents
TPC muon pull
0
20
40
60
80
100
120
140
-10
-8
-6
-4
-2
0
2
4
6
8
10


NCγ MC (σ×3000)
Integral 24.09
MC
Integral 132.5
Data
Integral 159
Data
NC single γ (σ×3000)
ν_μCC 0π
ν_μCC 1π^0
ν_μCC 1$\pi^\pm$
ν_μCC Multiπ
NC 1π^0
NC 1$\pi^\pm$
NC Multiπ
Other
nEvents
10
1
20
40
60
80
100
120
140
160
number of nodes in TPC


cos(θphoton)
1
0
500
1000
1500
2000
2500
3000
Ephoton [MeV]
16
14
12
10
8
6
4
2
0


NCγ MC (σ×300)
Integral 41.77
MC
Integral 58.86
Data
Integral 44
Data
NC single γ (σ×300)
Out FGD1 FV
ν_μCC 0π
ν_μCC 1π^0
ν_μCC 1$\pi^\pm$
ν_μCC Multiπ
NC 1π^0
NC 1$\pi^\pm$
NC Multiπ
Other
nEvents / 150 MeV
Photon Energy [MeV]
0
5
10
15
20
25
30
0
500
1000
1500
2000
2500
3000


NCγ MC (σ×300)
Integral 41.77
MC
Integral 59.28
Data
Integral 46
Data
NC single γ (σ×300)
Out FGD1 FV
ν_μCC 0π
ν_μCC 1π^0
ν_μCC 1$\pi^\pm$
ν_μCC Multiπ
NC 1π^0
NC 1$\pi^\pm$
NC Multiπ
Other
nEvents
cos(θ) Photon
40
35
30
25
20
15
10
5
0
-1.0
-0.8
-0.6
-0.4
-0.2
0.0
0.2
0.4
0.6
0.8
1.0