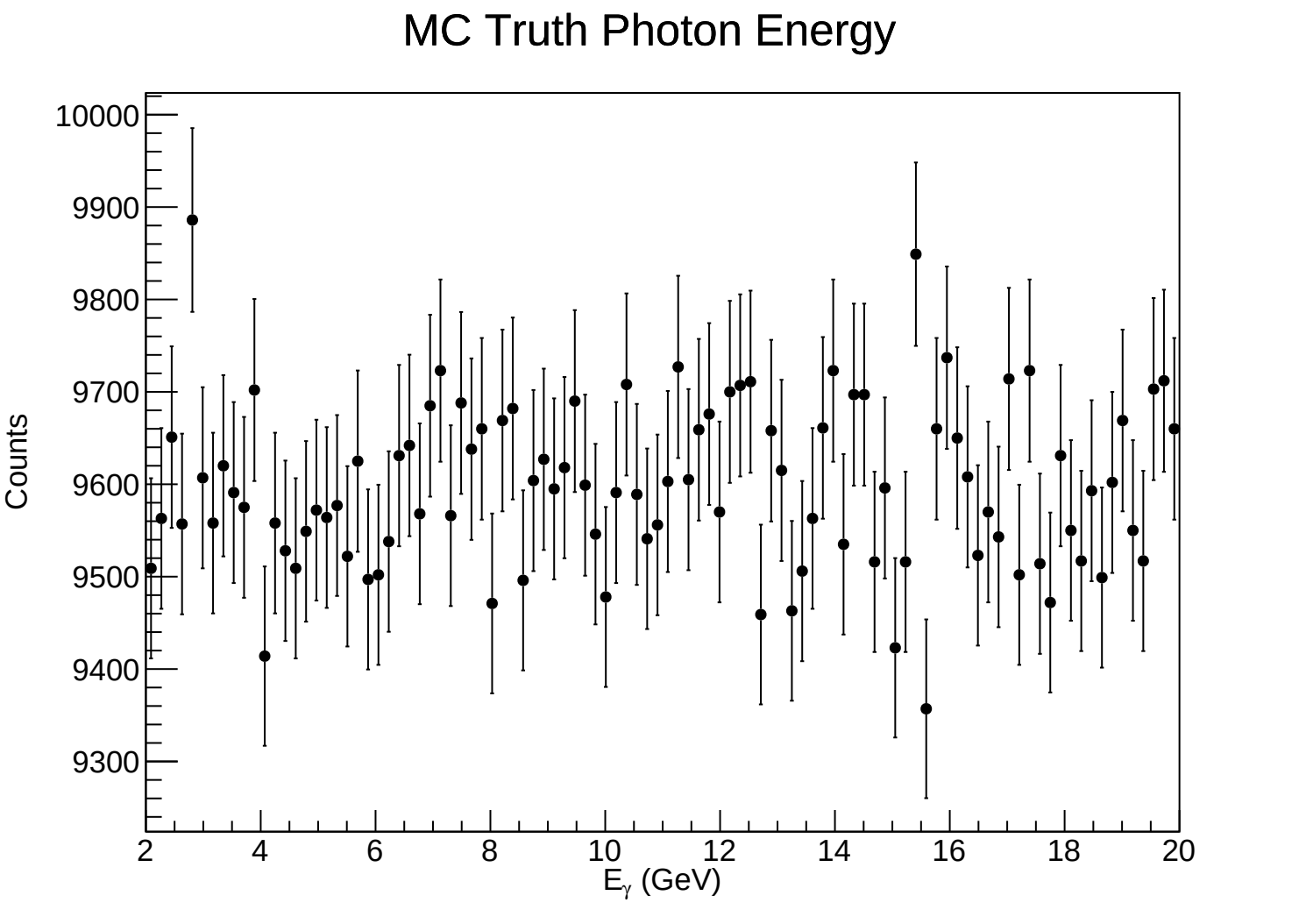
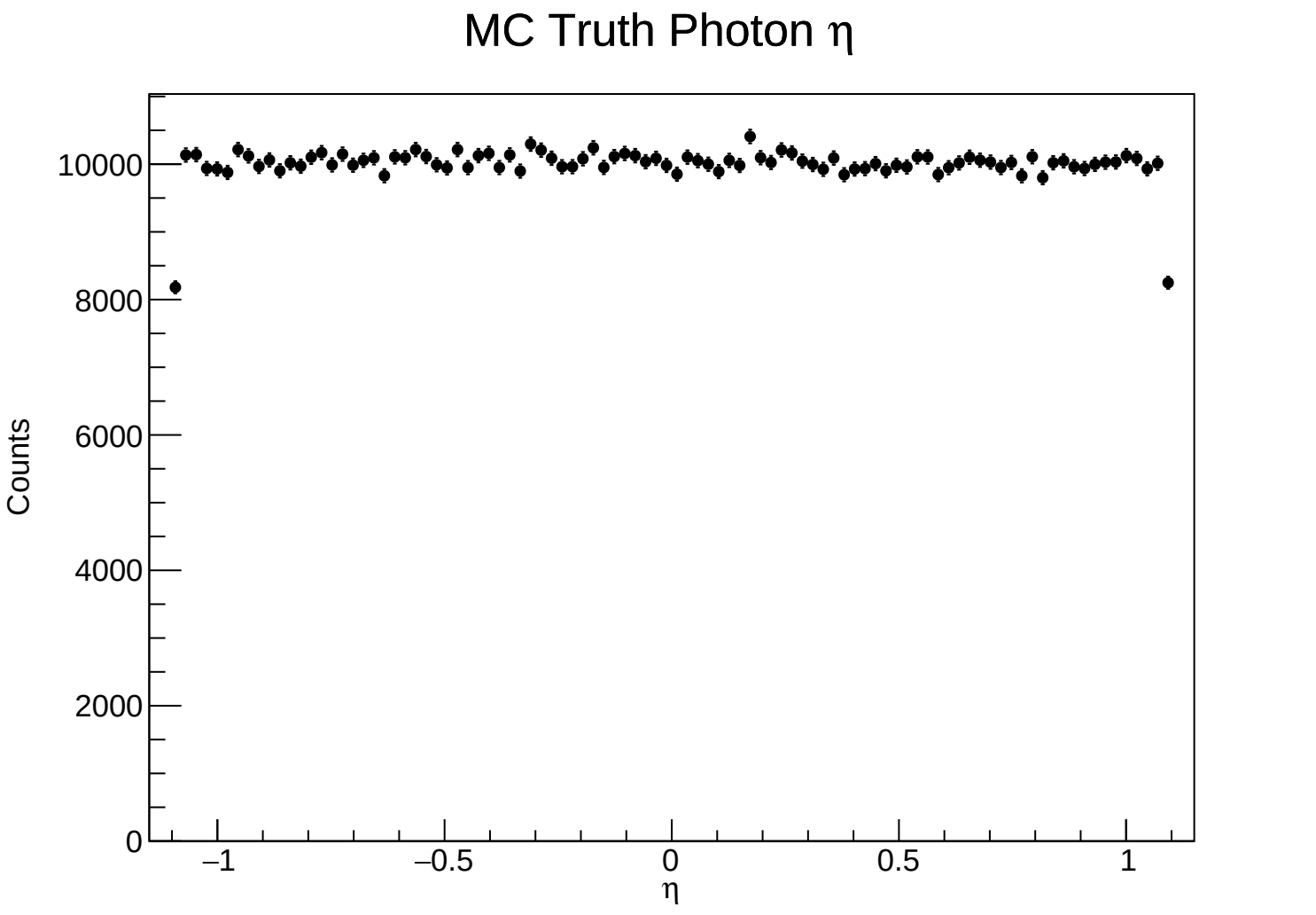
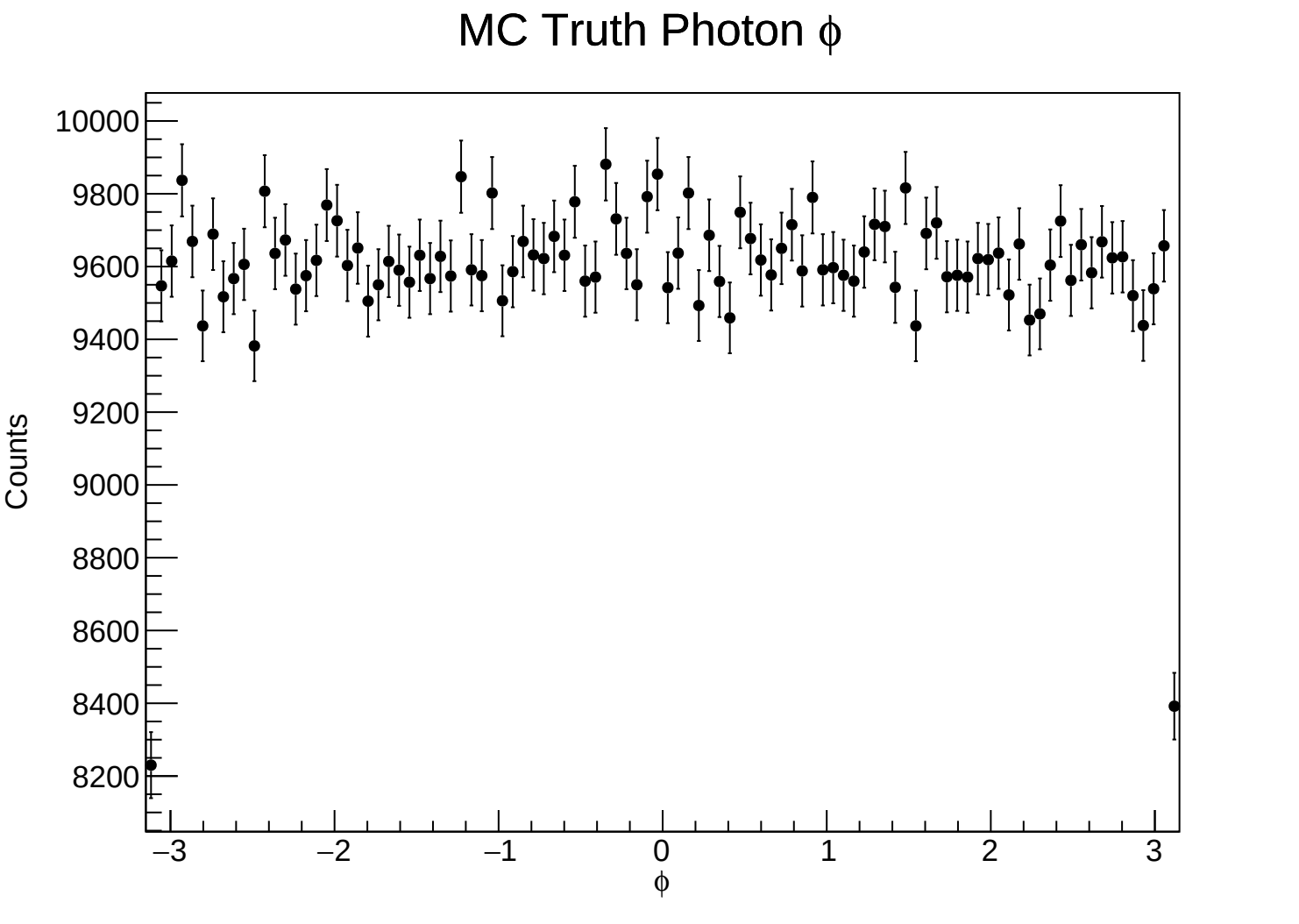
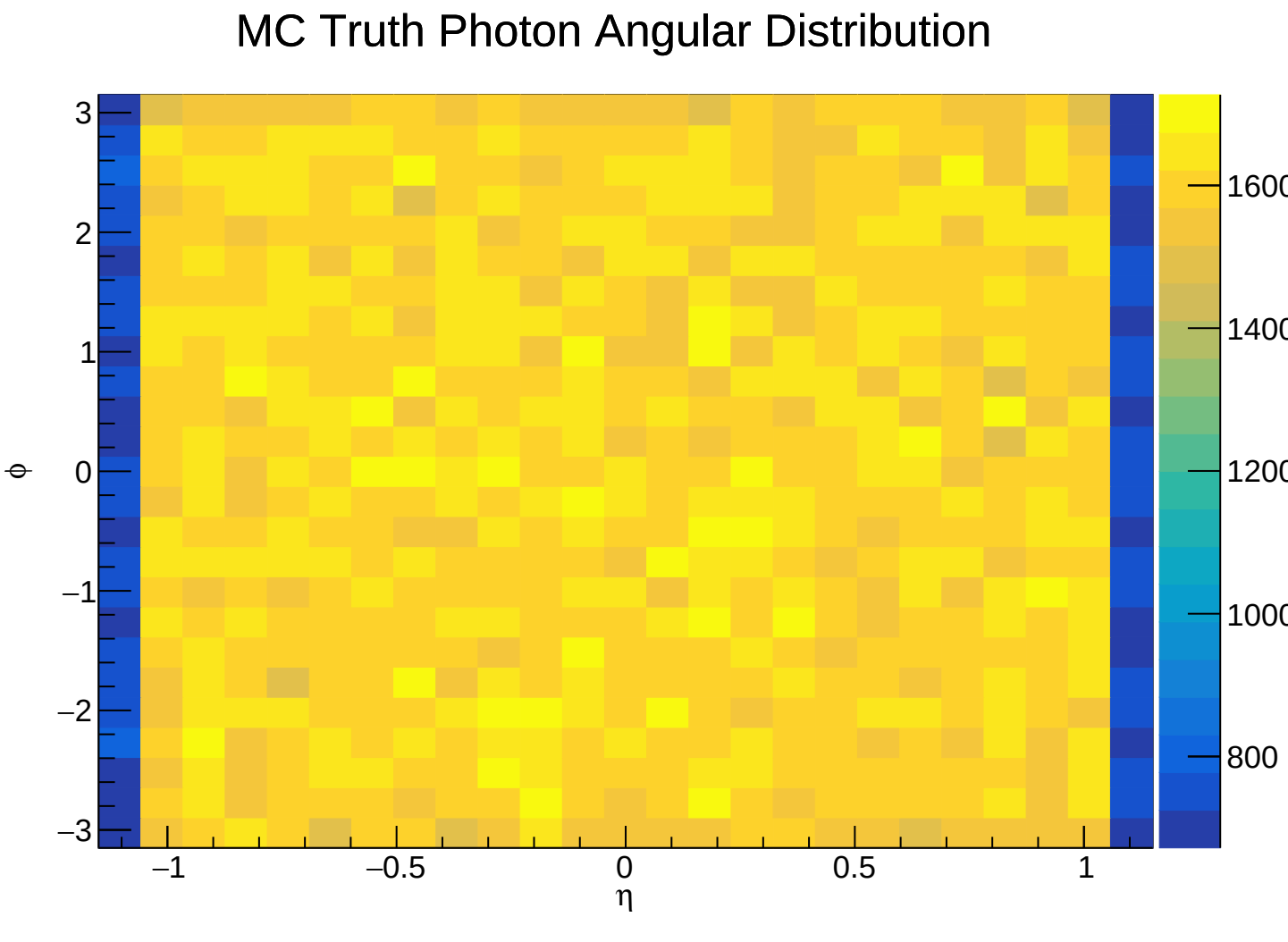
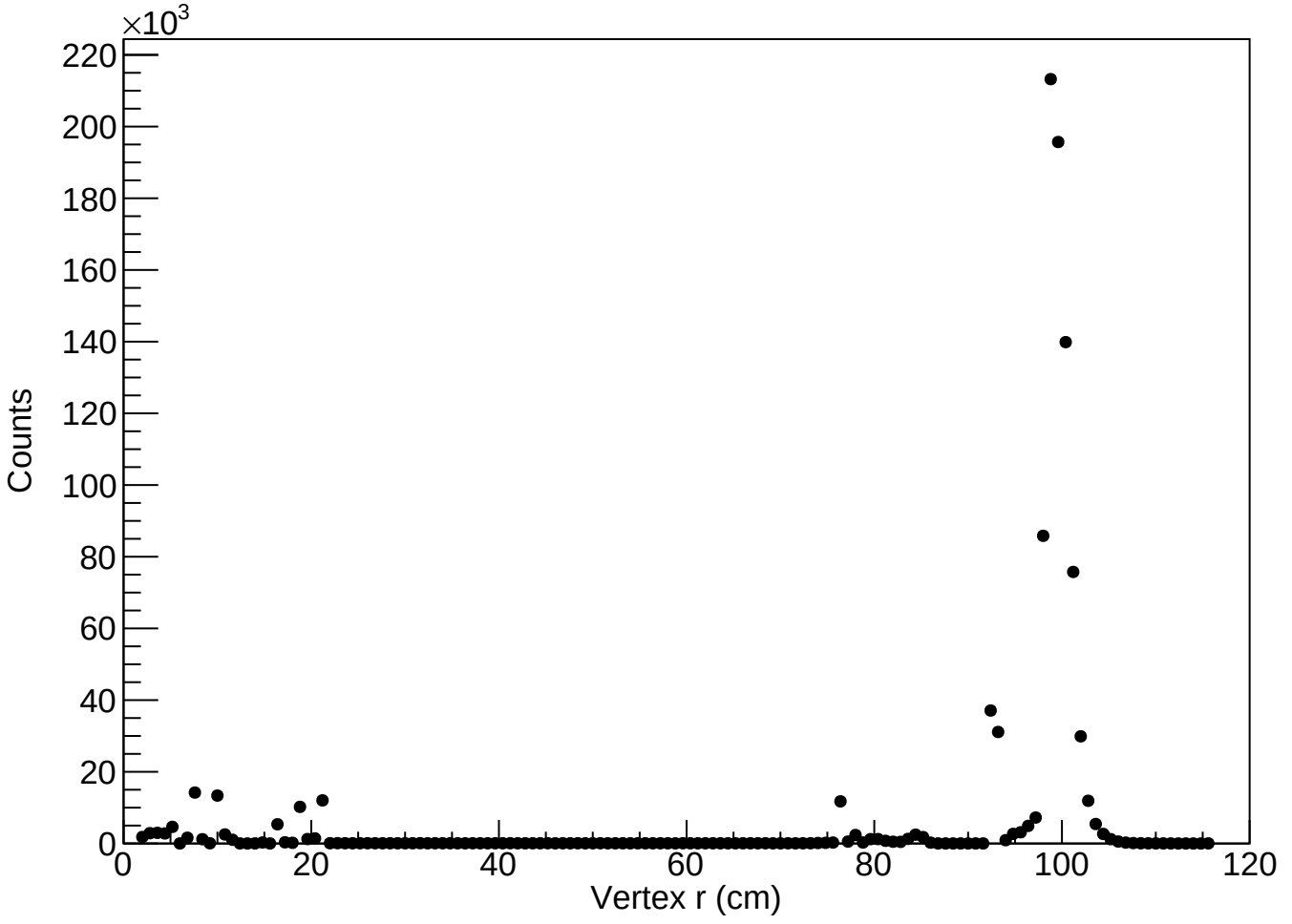
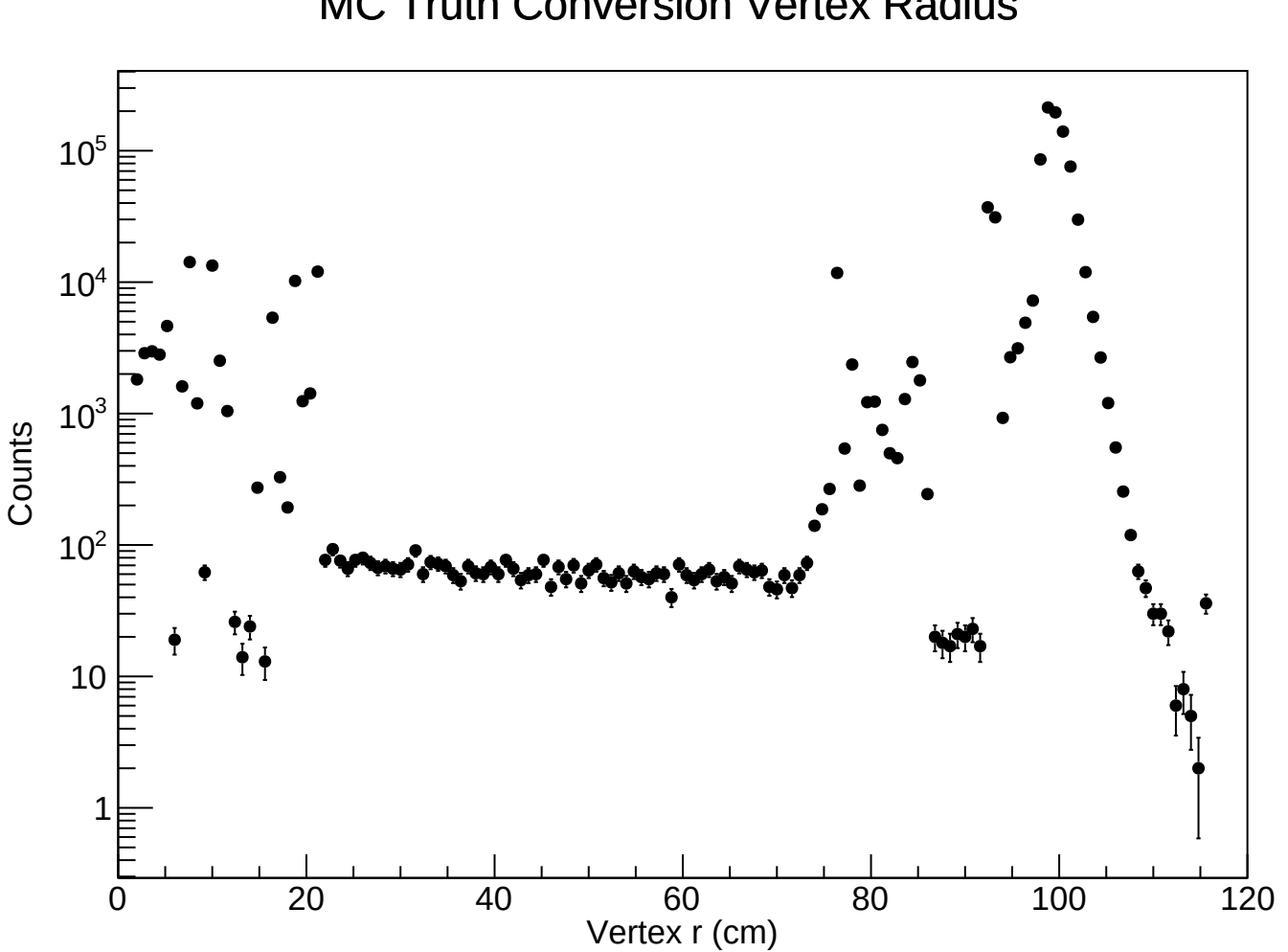

MC Truth Photon Energy
Counts
10000
9900
9800
9700
9600
9500
9400
9300
2
4
6
8
10
12
14
16
18
20
E_γ (GeV)

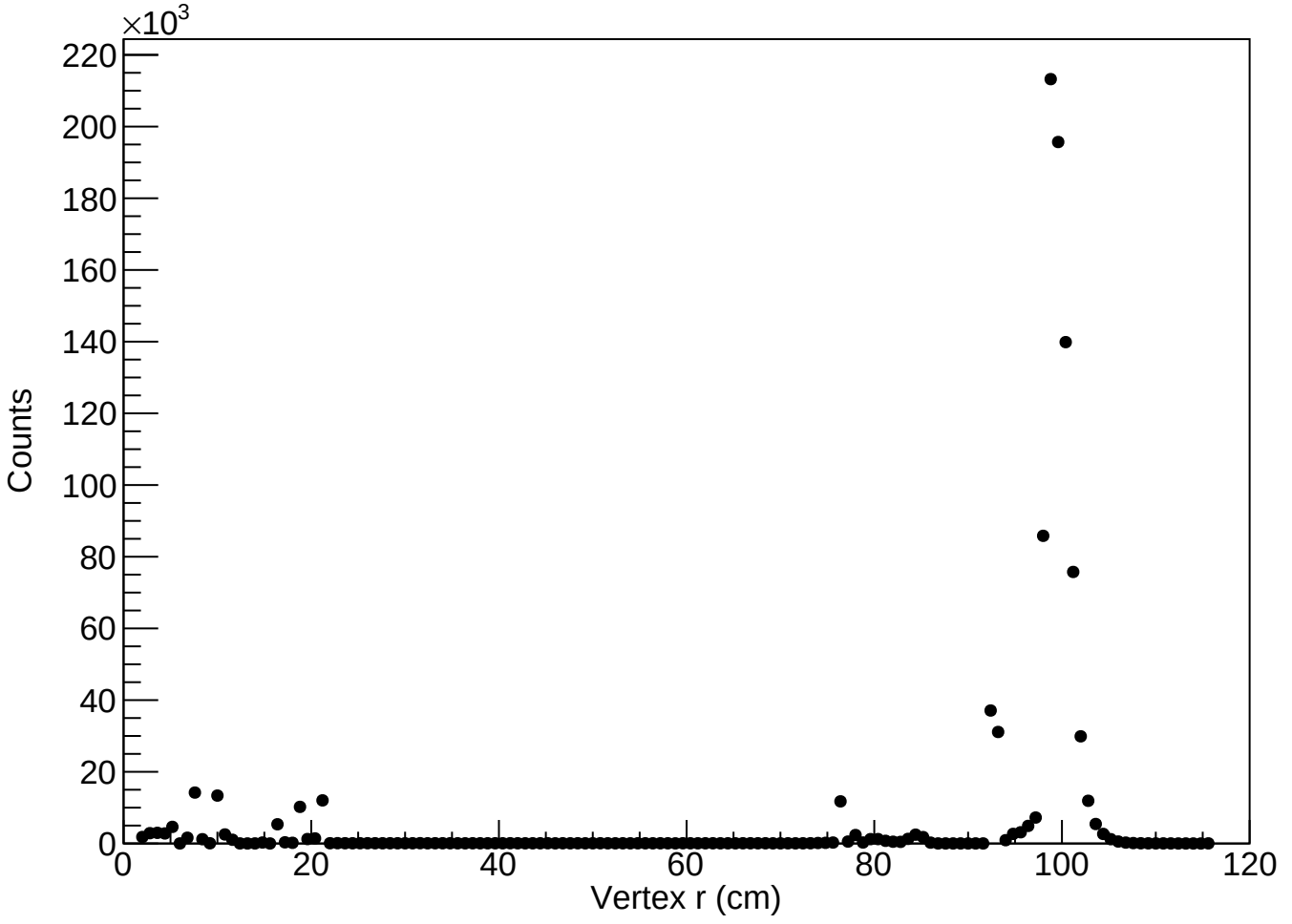

MC Truth Photon η
Counts
10000
8000
6000
4000
2000
0
–1
–0.5
0
0.5
1
η

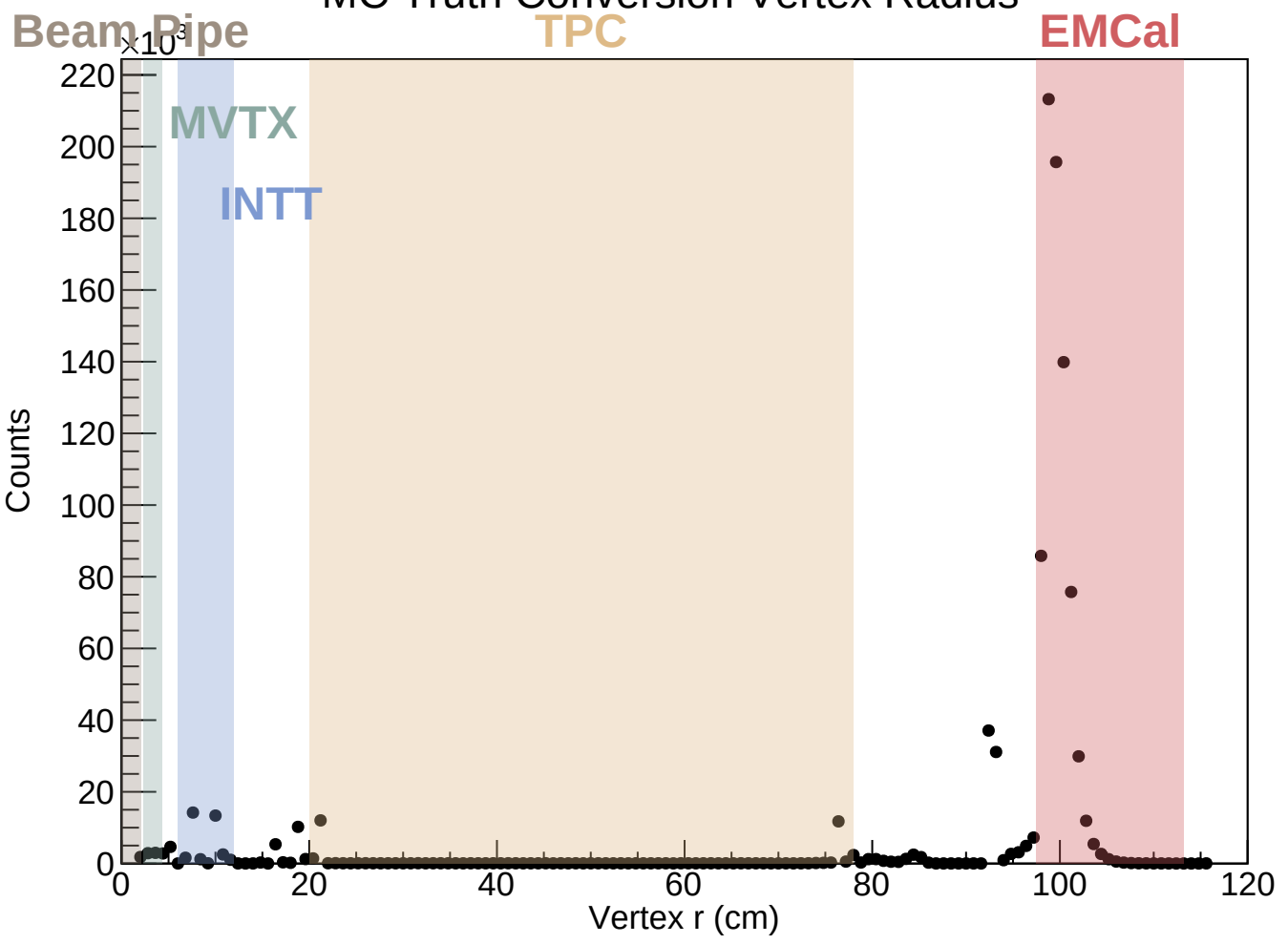

MC Truth Photon ϕ
Counts
10000
9800
9600
9400
9200
9000
8800
8600
8400
8200
−3
−2
−1
0
1
2
3
ϕ

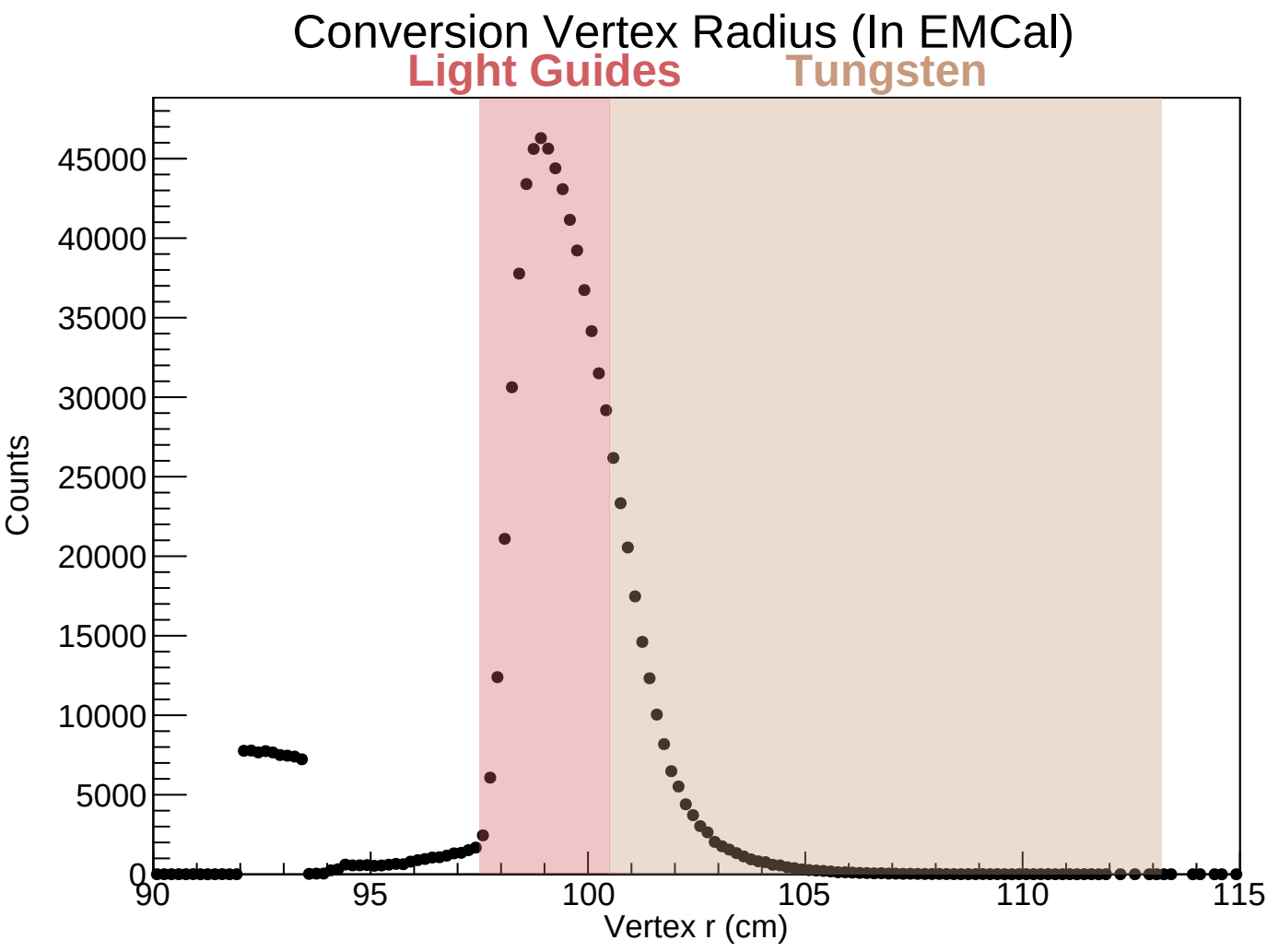

MC Truth Photon Angular Distribution
3
2
1
0
−1
−2
−3
ϕ
−1
−0.5
0
0.5
1
η
1600
1400
1200
1000
800

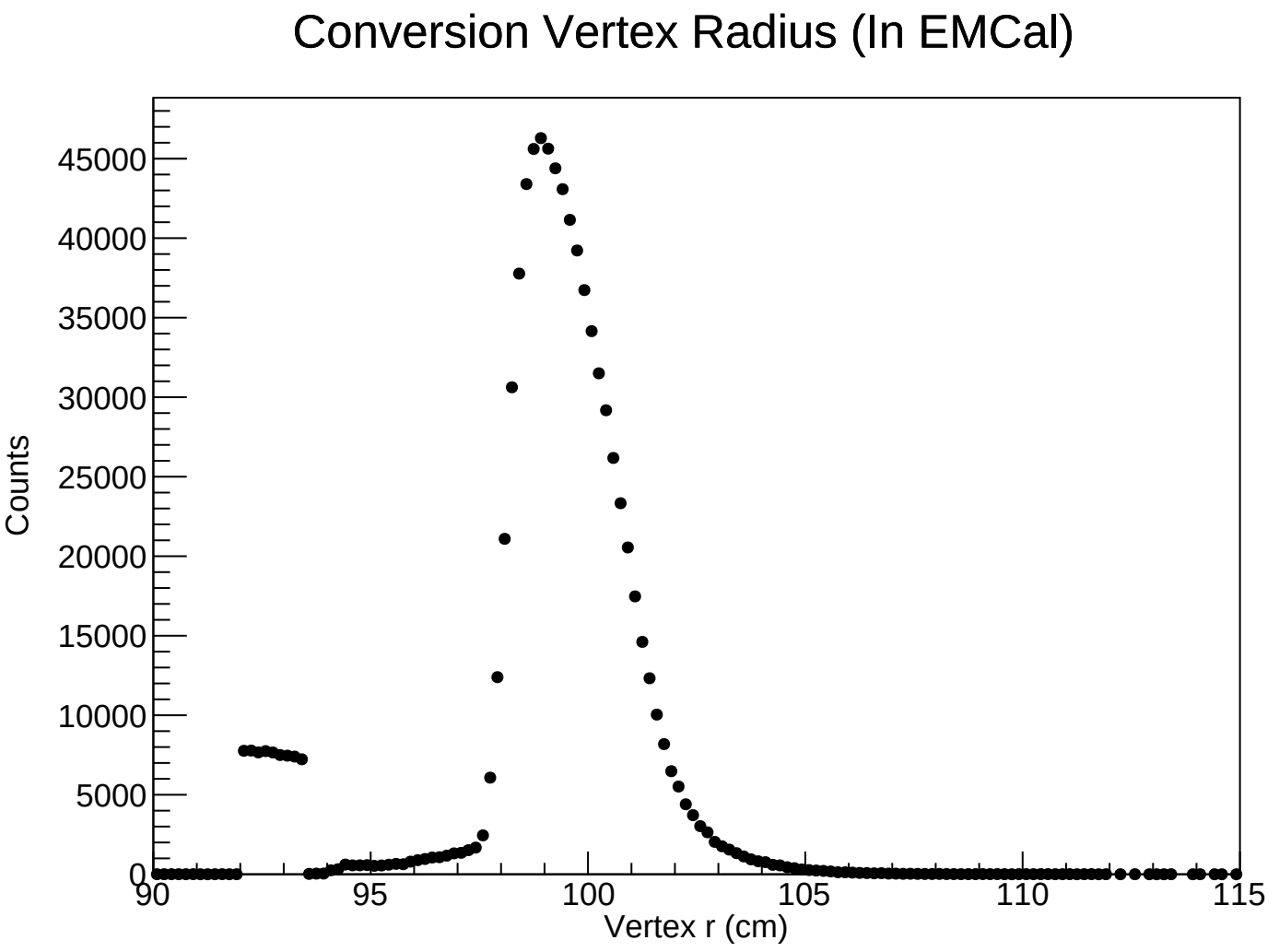

MC Truth Conversion Vertex Radius
×10^3
Counts
Vertex r (cm)
0
20
40
60
80
100
120
140
160
180
200
220

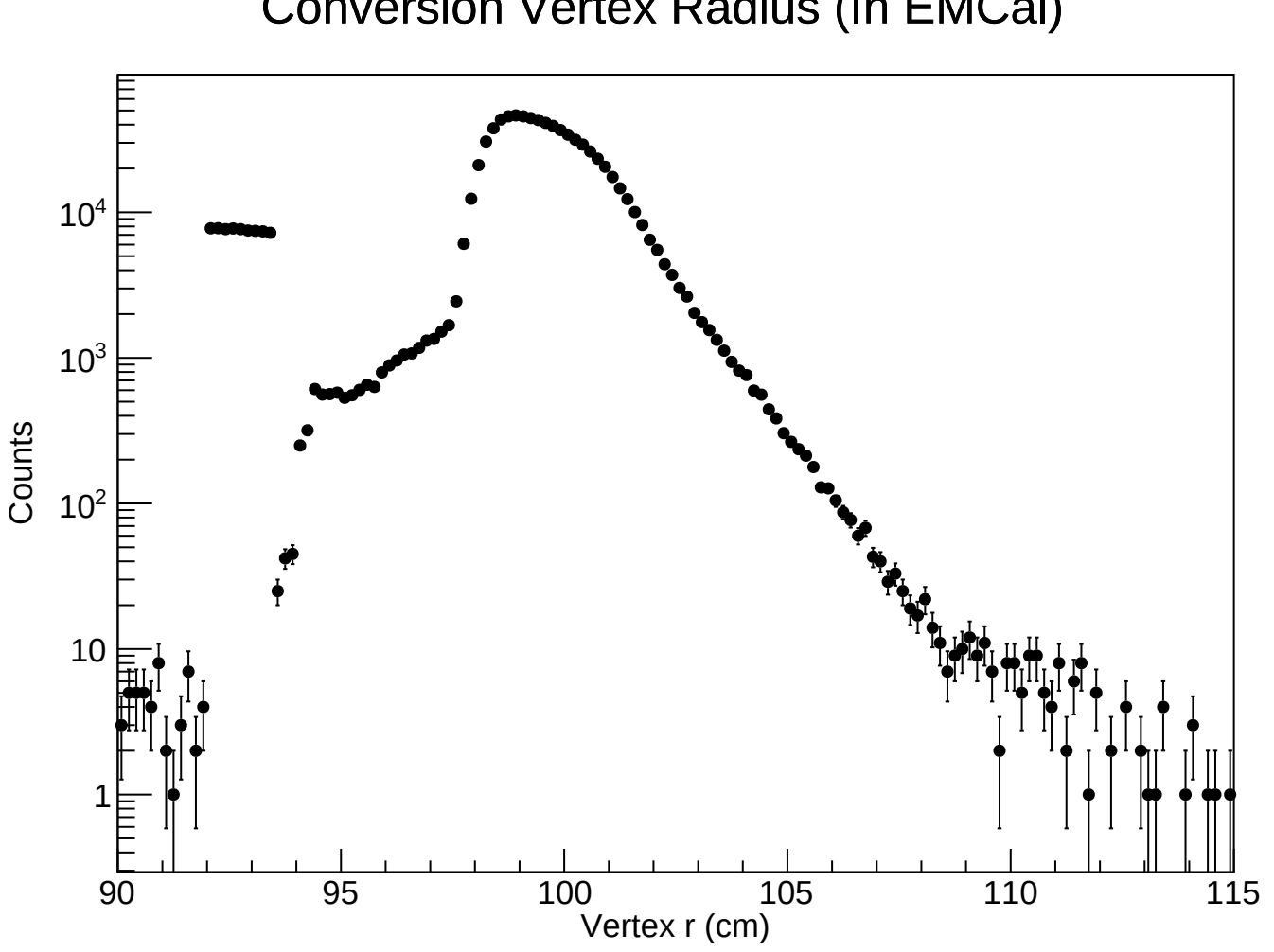

MC Truth Conversion Vertex Radius
Counts
10^5
10^4
10^3
10^2
10
1
0
20
40
60
80
100
120
Vertex r (cm)

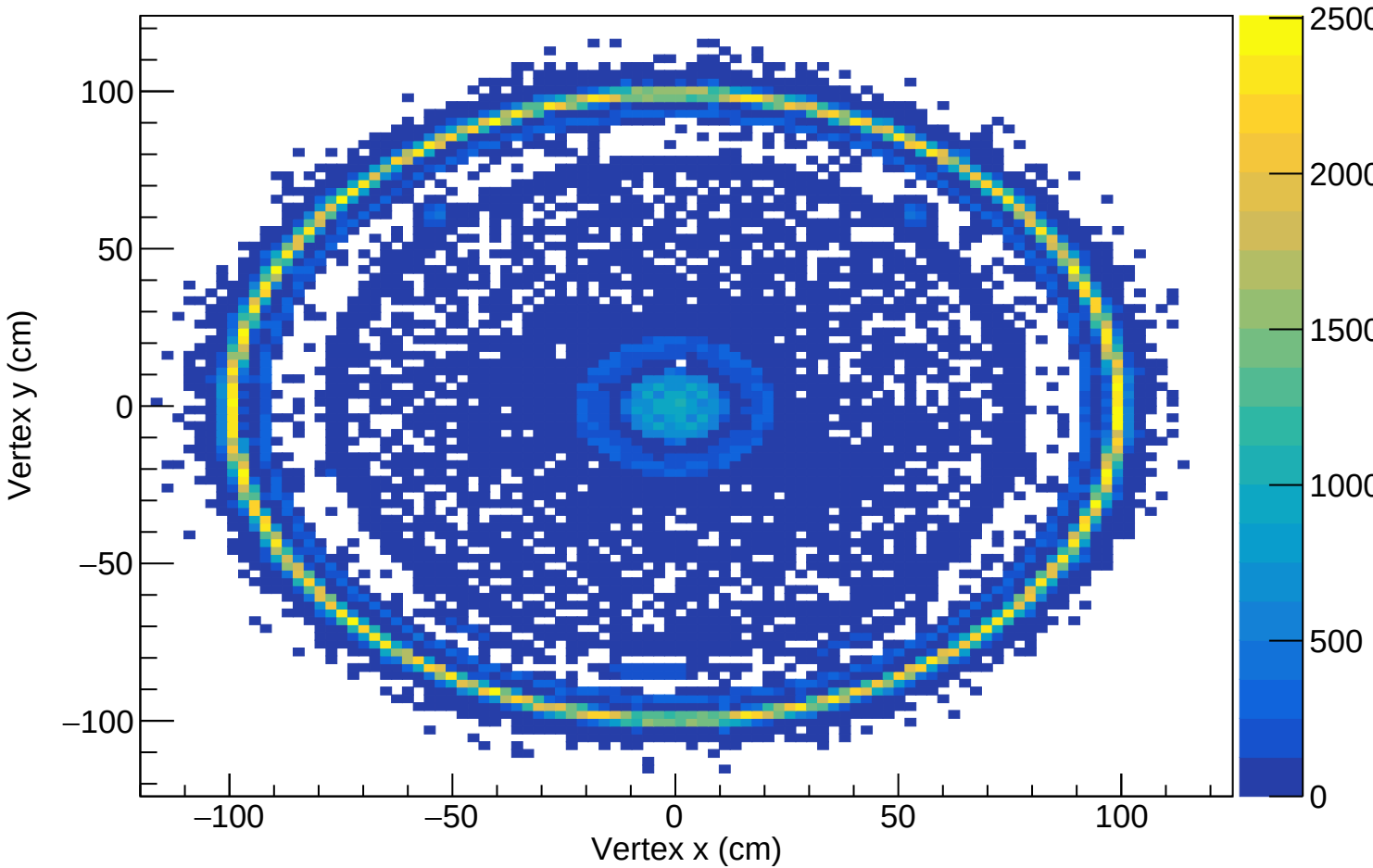

MC Truth Conversion Vertex Radius
×10^3
Counts
Vertex r (cm)
0
20
40
60
80
100
120
140
160
180
200
220

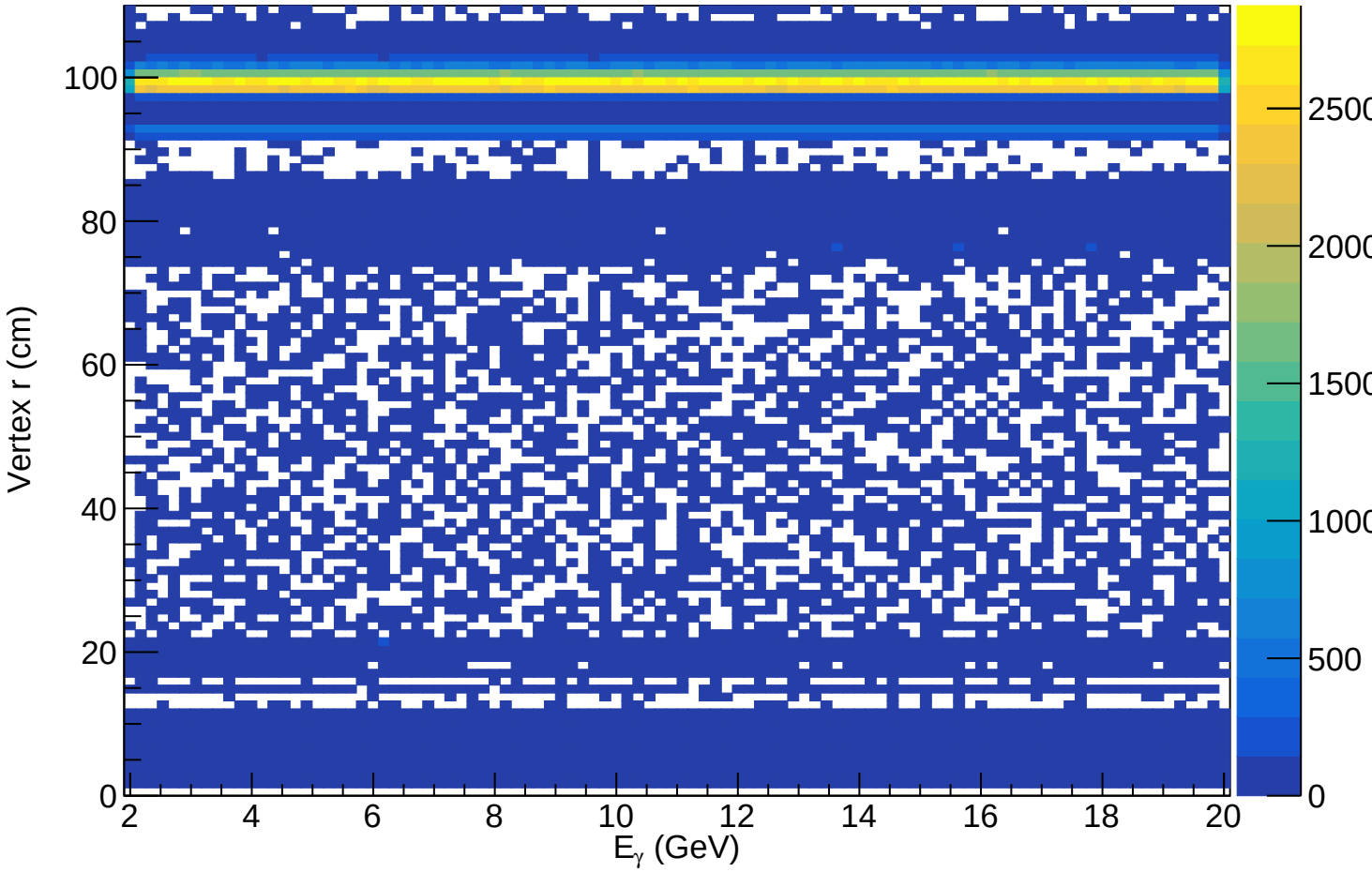

MC Truth Conversion Vertex Radius
Beam Pipe
MVTX
INTT
TPC
EMCal
×10³
Counts
Vertex r (cm)
0
20
40
60
80
100
120
140
160
180
200
220

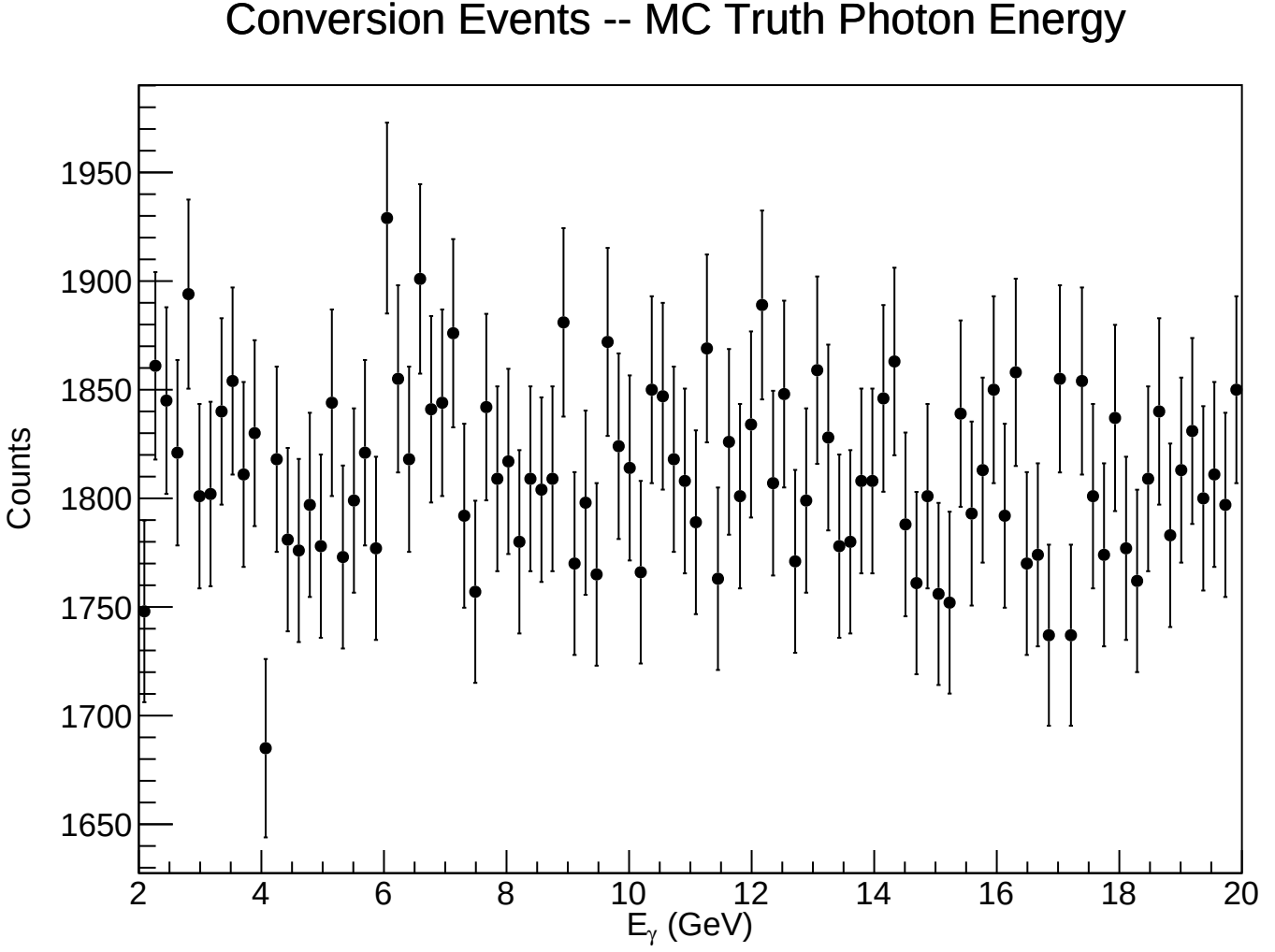

Conversion Vertex Radius (In EMCal)
Light Guides
Tungsten
Counts
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
90
95
100
105
110
115
Vertex r (cm)

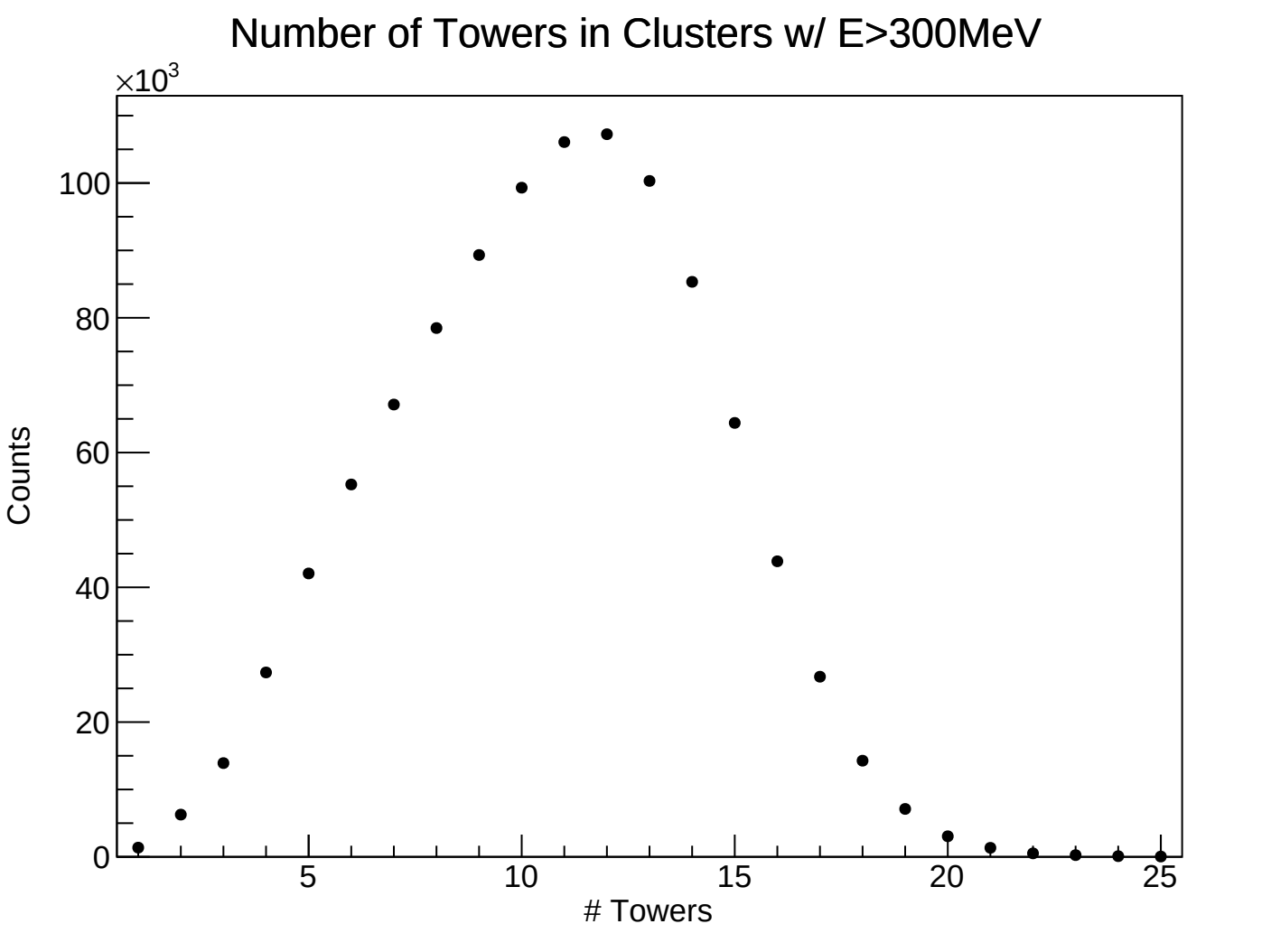

Conversion Vertex Radius (In EMCal)
Counts
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
90
95
100
105
110
115
Vertex r (cm)

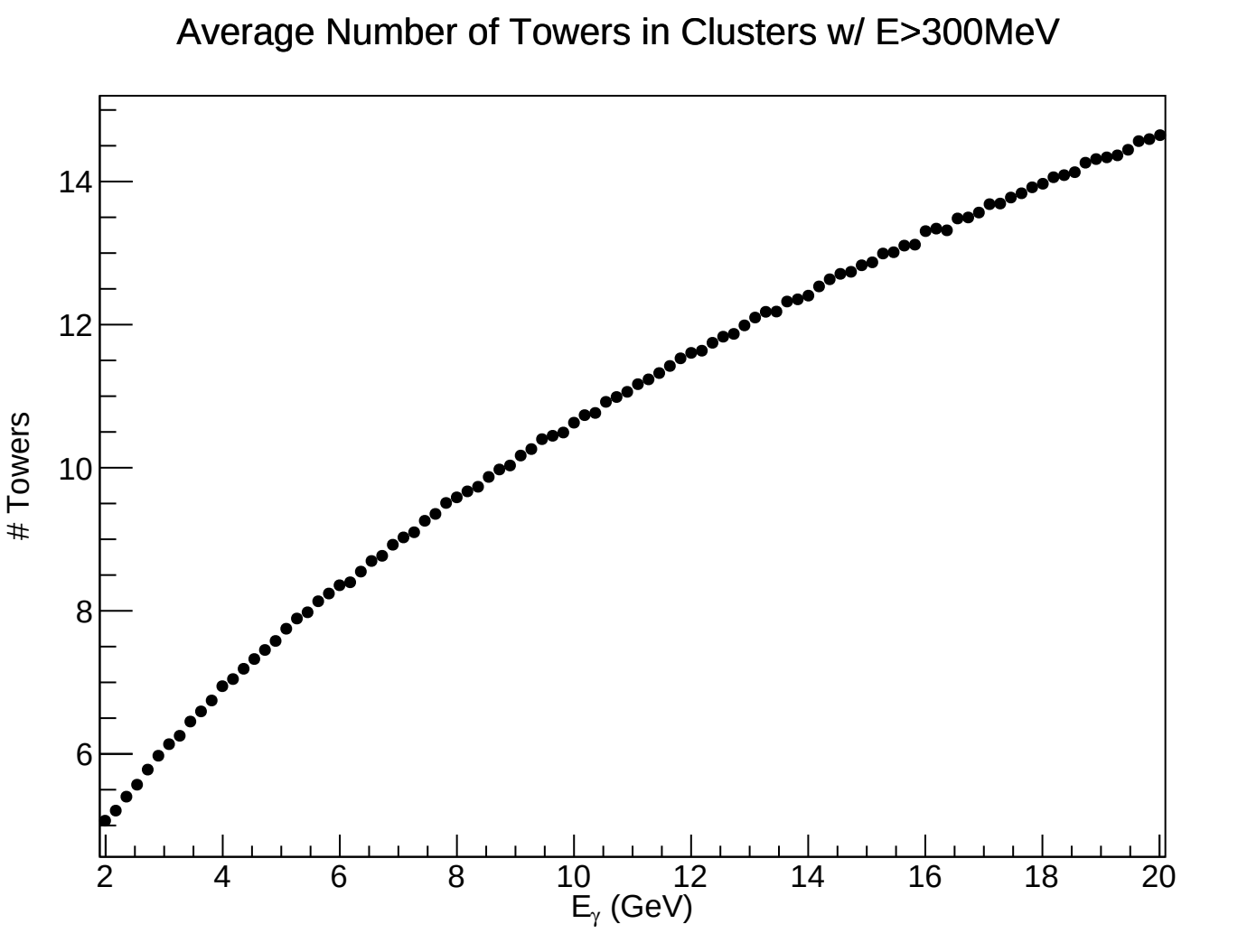

Conversion Vertex Radius (In EMCal)
Counts
10^4
10^3
10^2
10
1
90
95
100
105
110
115
Vertex r (cm)

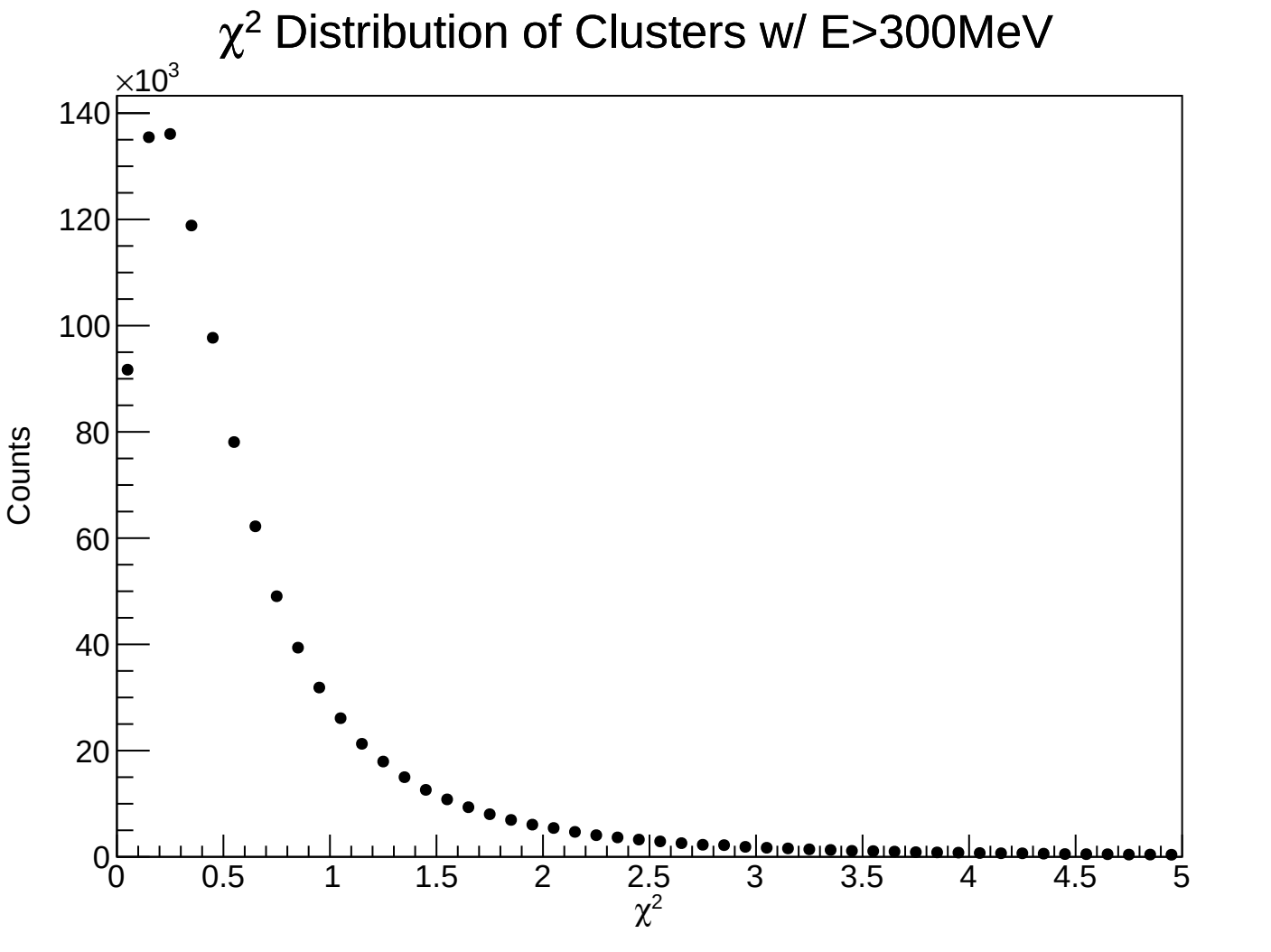

MC Truth Conversion Vertex Position
Vertex y (cm)
100
50
0
−50
−100
−100
−50
0
50
100
Vertex x (cm)
2500
2000
1500
1000
500
0

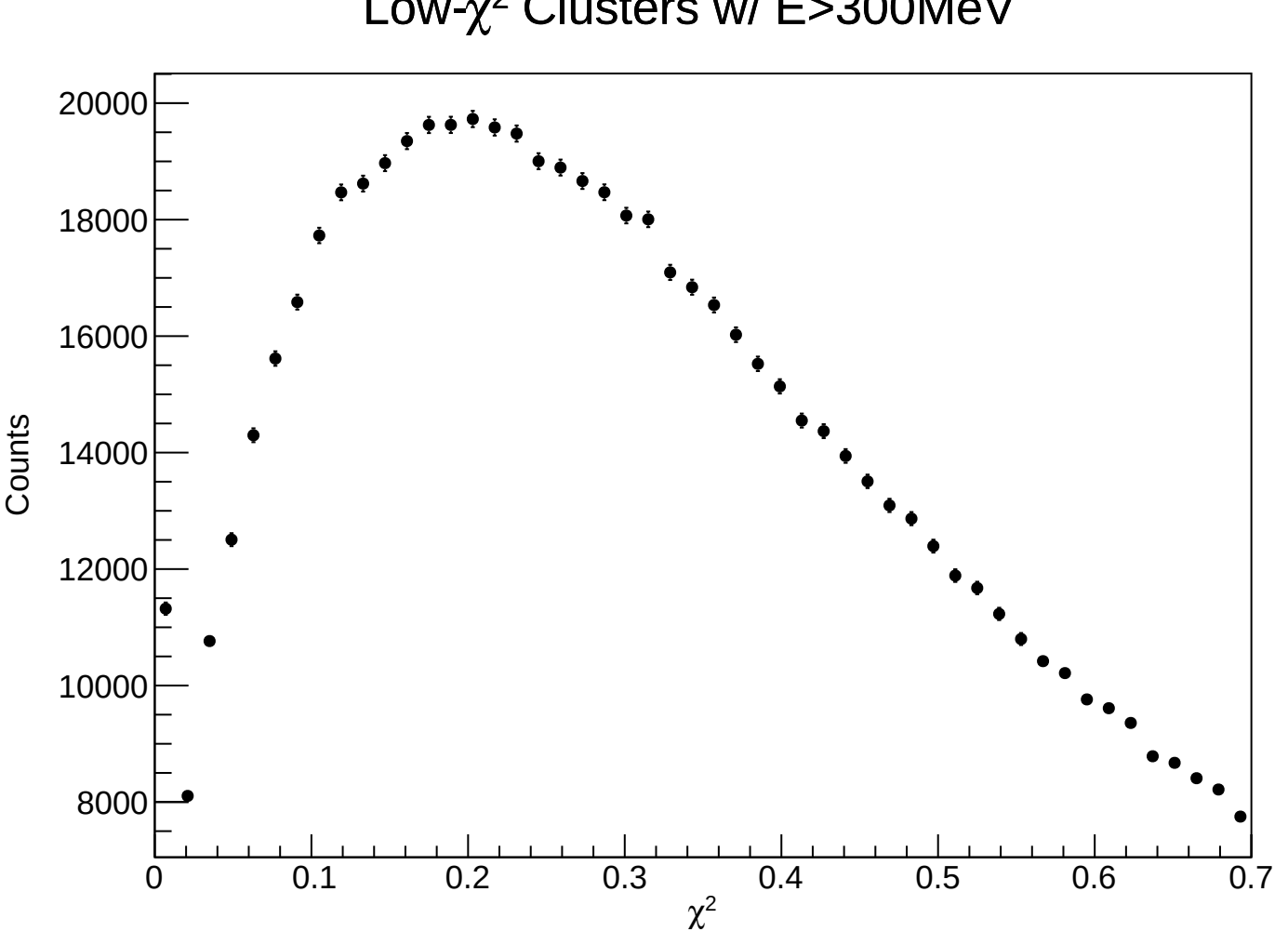

MC Truth Conversion Vertex Radius vs Photon Energy
Vertex r (cm)
0
20
40
60
80
100
2
4
6
8
10
12
14
16
18
20
E_γ (GeV)
0
500
1000
1500
2000
2500

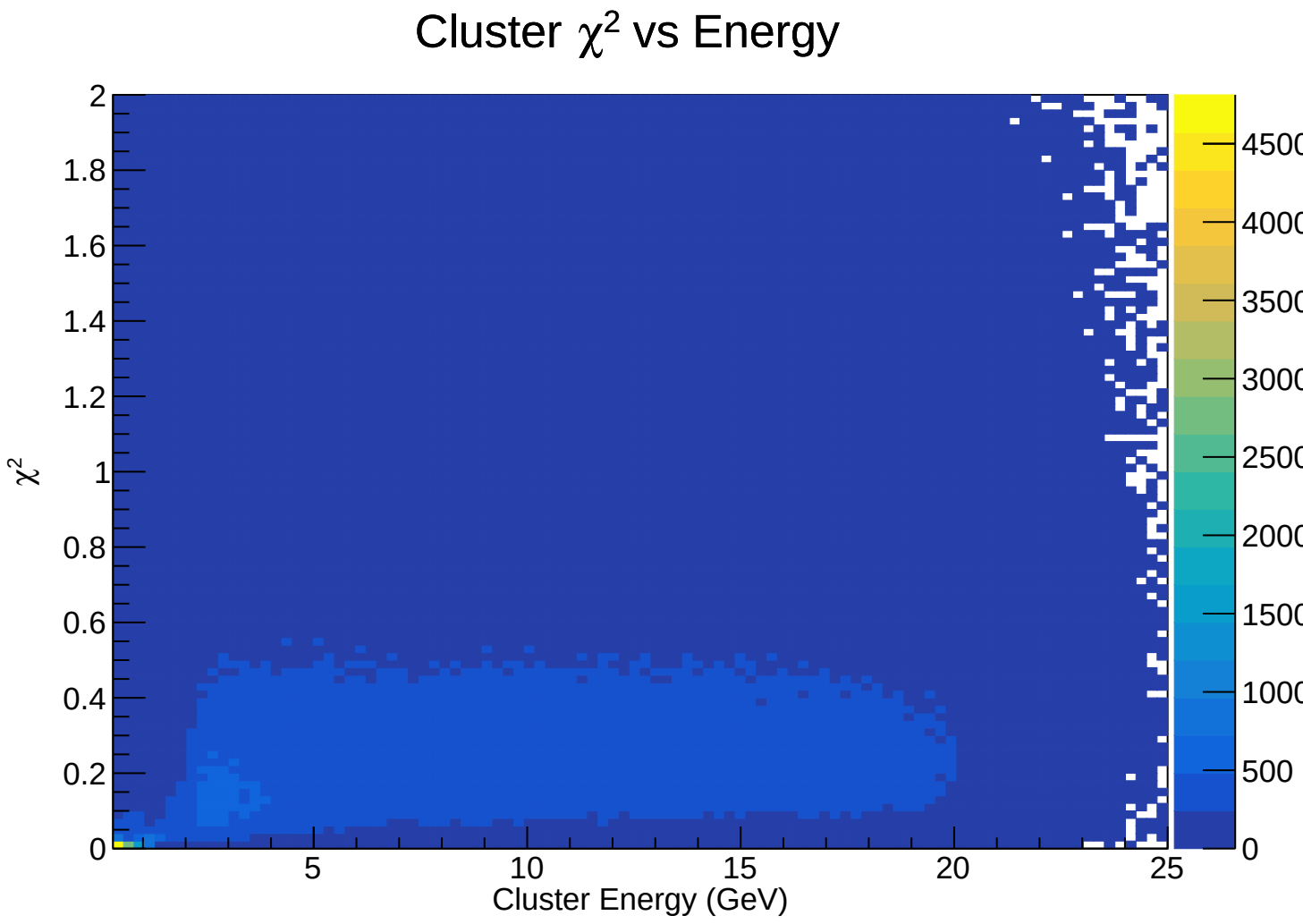

Conversion Events -- MC Truth Photon Energy
Counts
1950
1900
1850
1800
1750
1700
1650
2
4
6
8
10
12
14
16
18
20
Eγ (GeV)

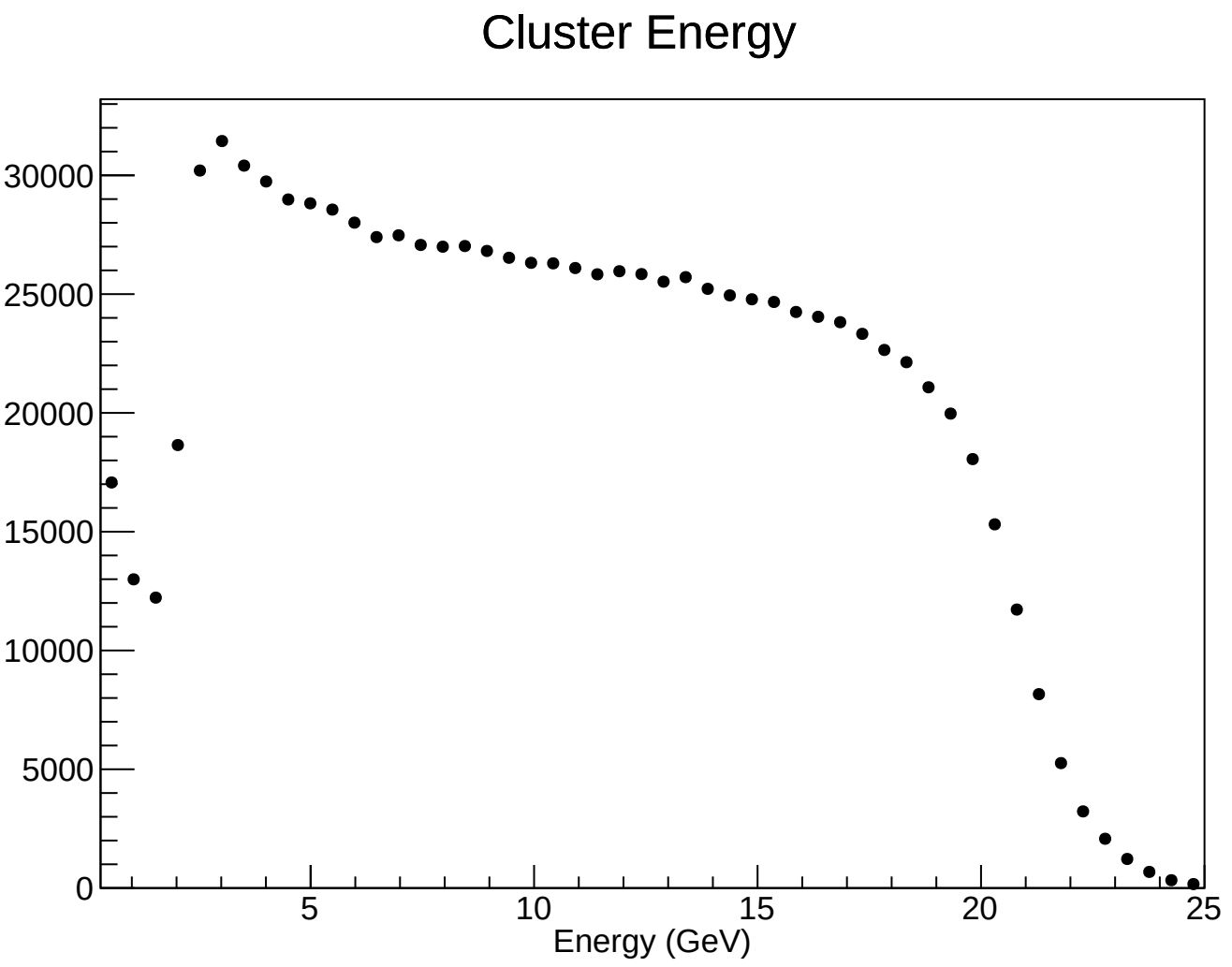

Number of Towers in Clusters w/ E>300MeV
×10^3
100
80
60
40
20
0
Counts
5
10
15
20
25
Towers

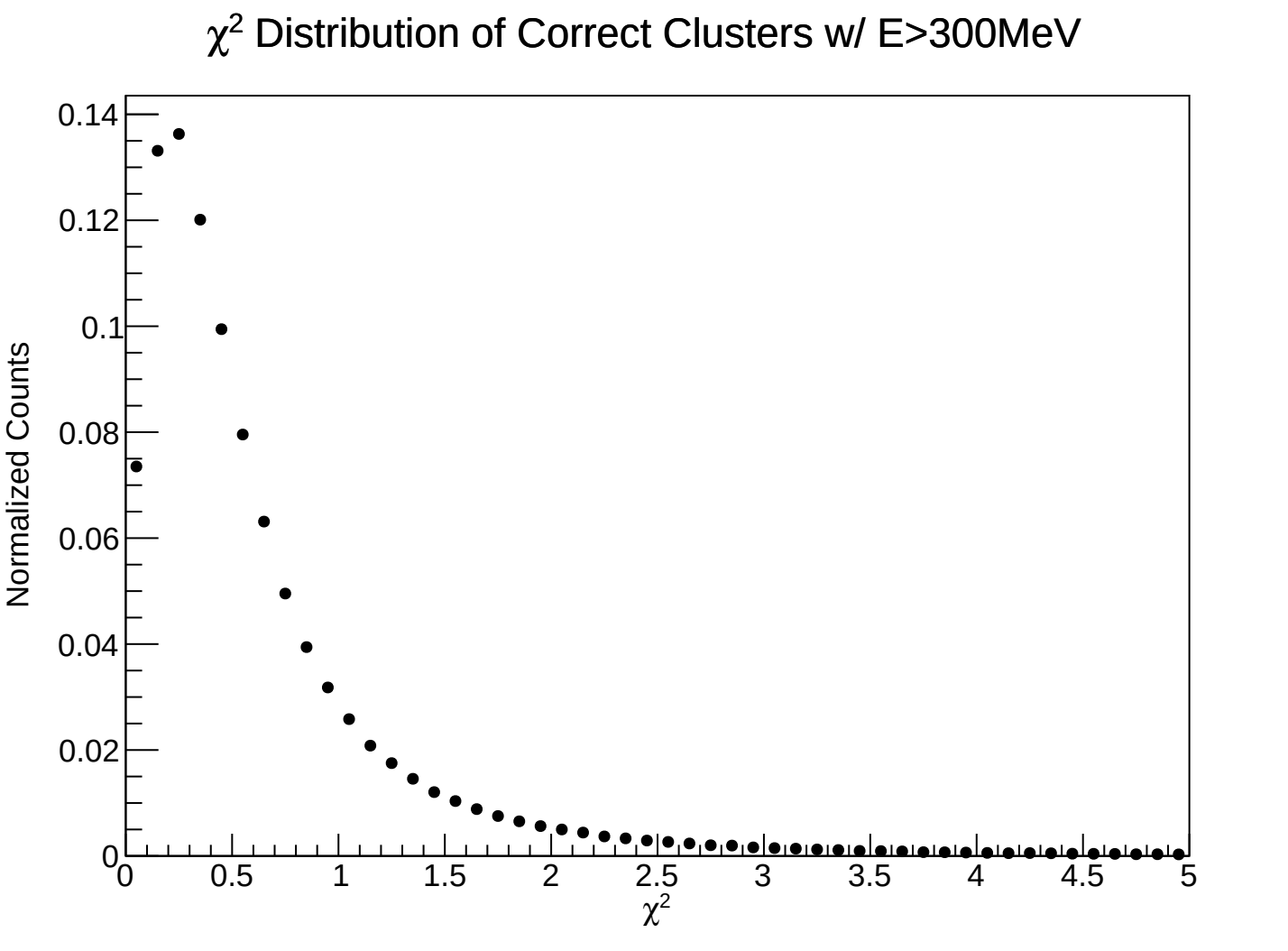

Average Number of Towers in Clusters w/ E>300MeV
Towers
14
12
10
8
6
2
4
6
8
10
12
14
16
18
20
E_γ (GeV)

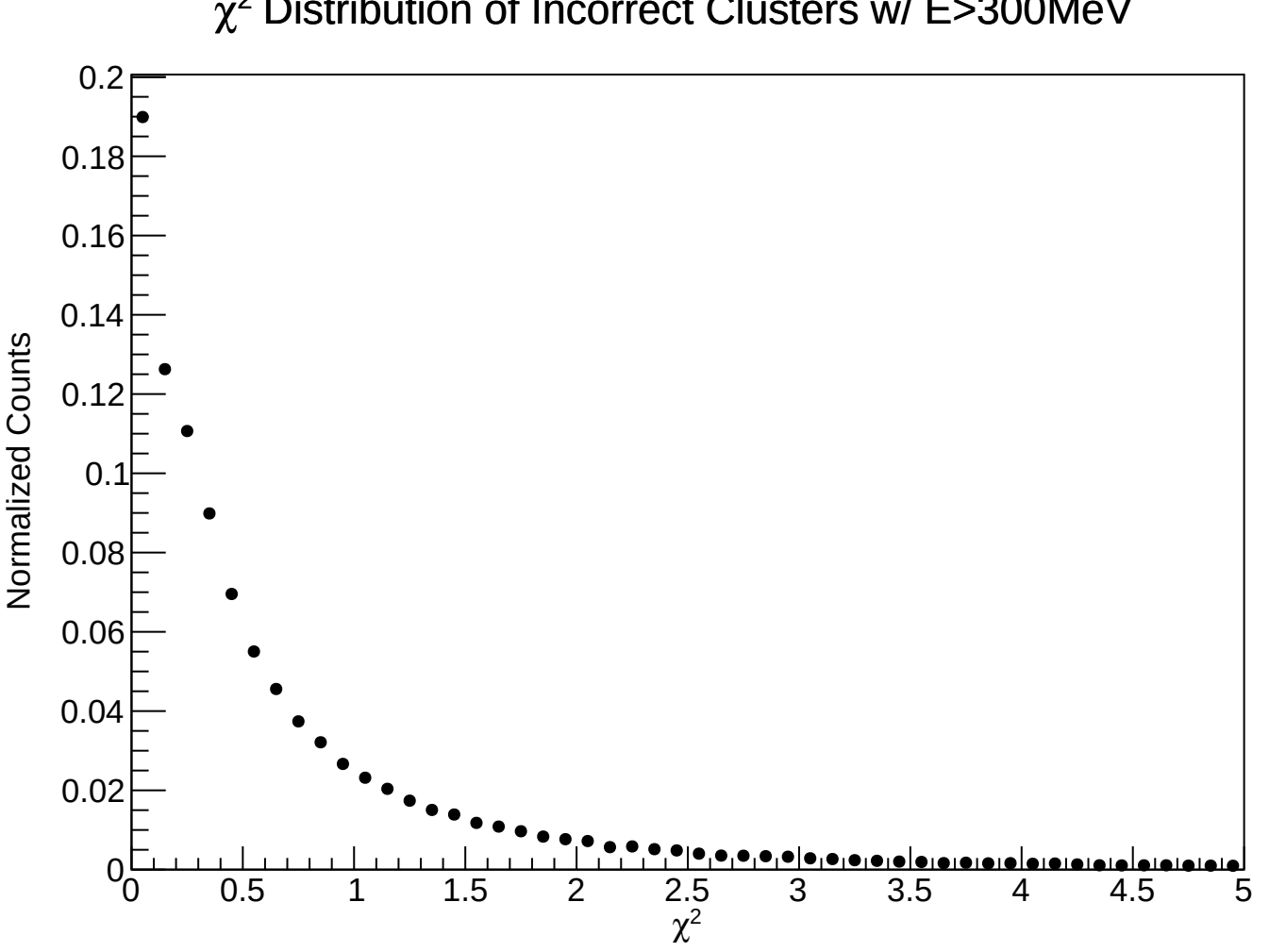

χ^2 Distribution of Clusters w/ E>300MeV
$\times 10^3$
Counts
χ^2
0
20
40
60
80
100
120
140
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5

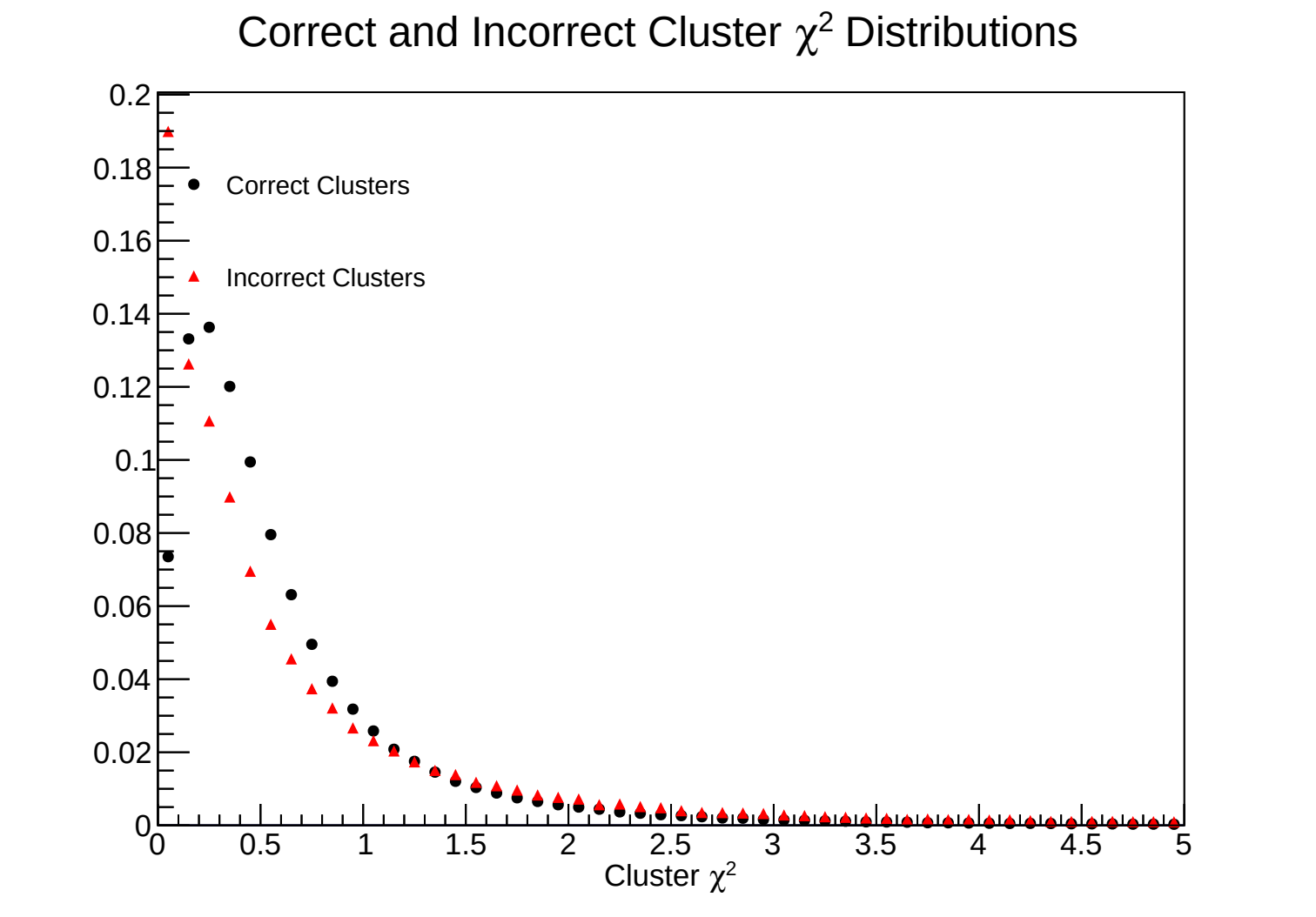

Low-χ^2 Clusters w/ E>300MeV
Counts
20000
18000
16000
14000
12000
10000
8000
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
χ^2

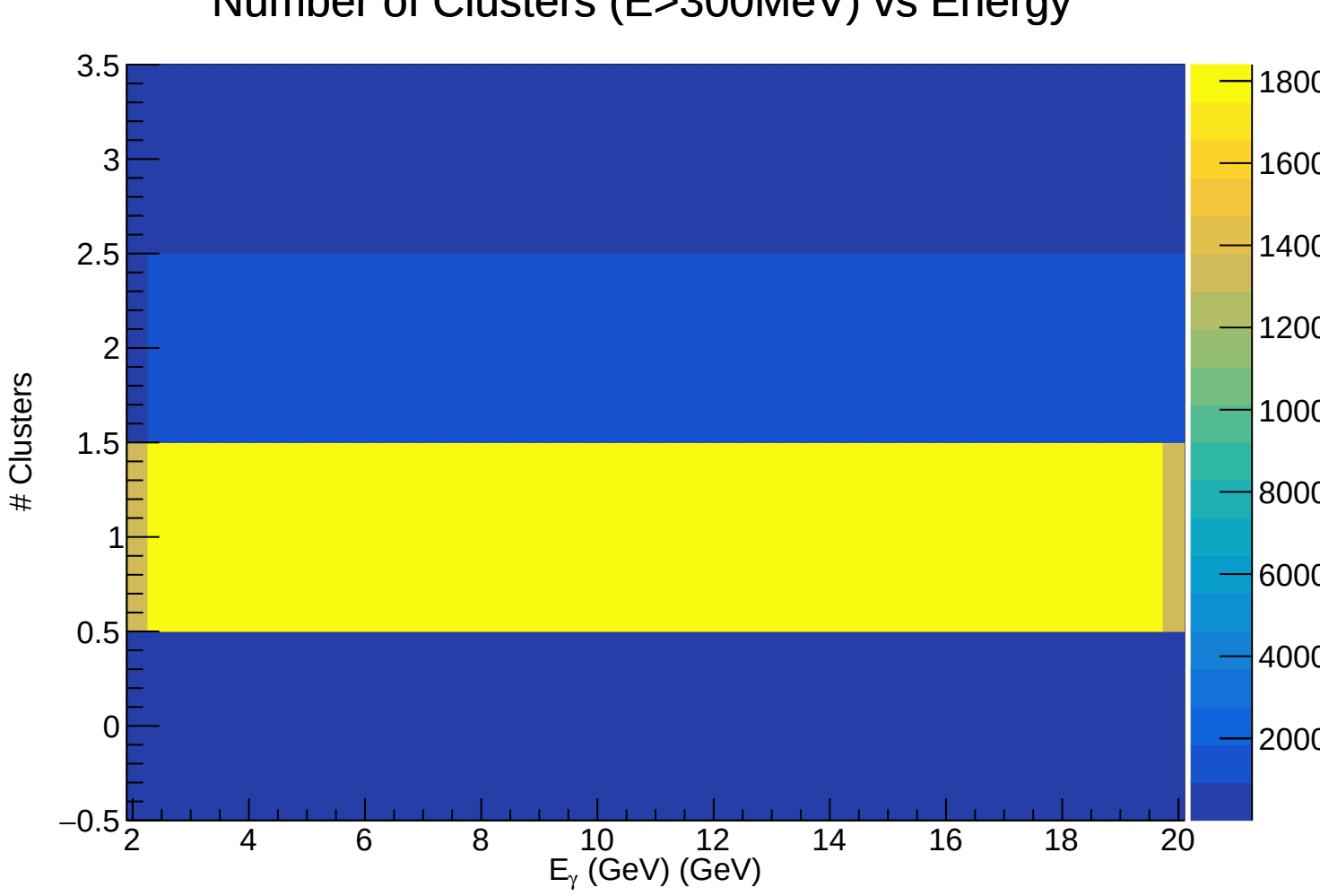

Cluster χ^2 vs Energy
χ^2
Cluster Energy (GeV)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
5
10
15
20
25
0
500
1000
1500
2000
2500
3000
3500
4000
4500

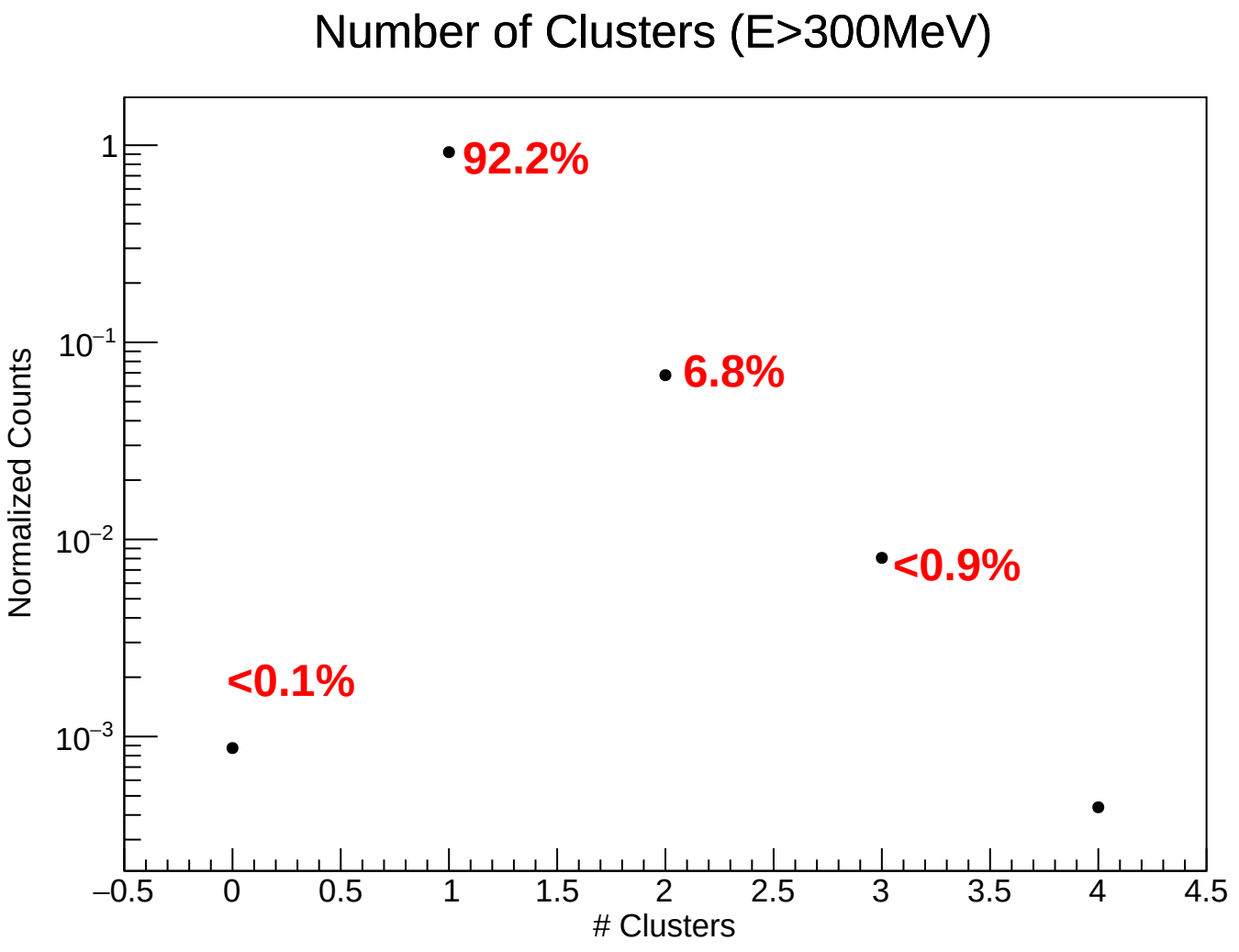

Cluster Energy
30000
25000
20000
15000
10000
5000
0
5
10
15
20
25
Energy (GeV)

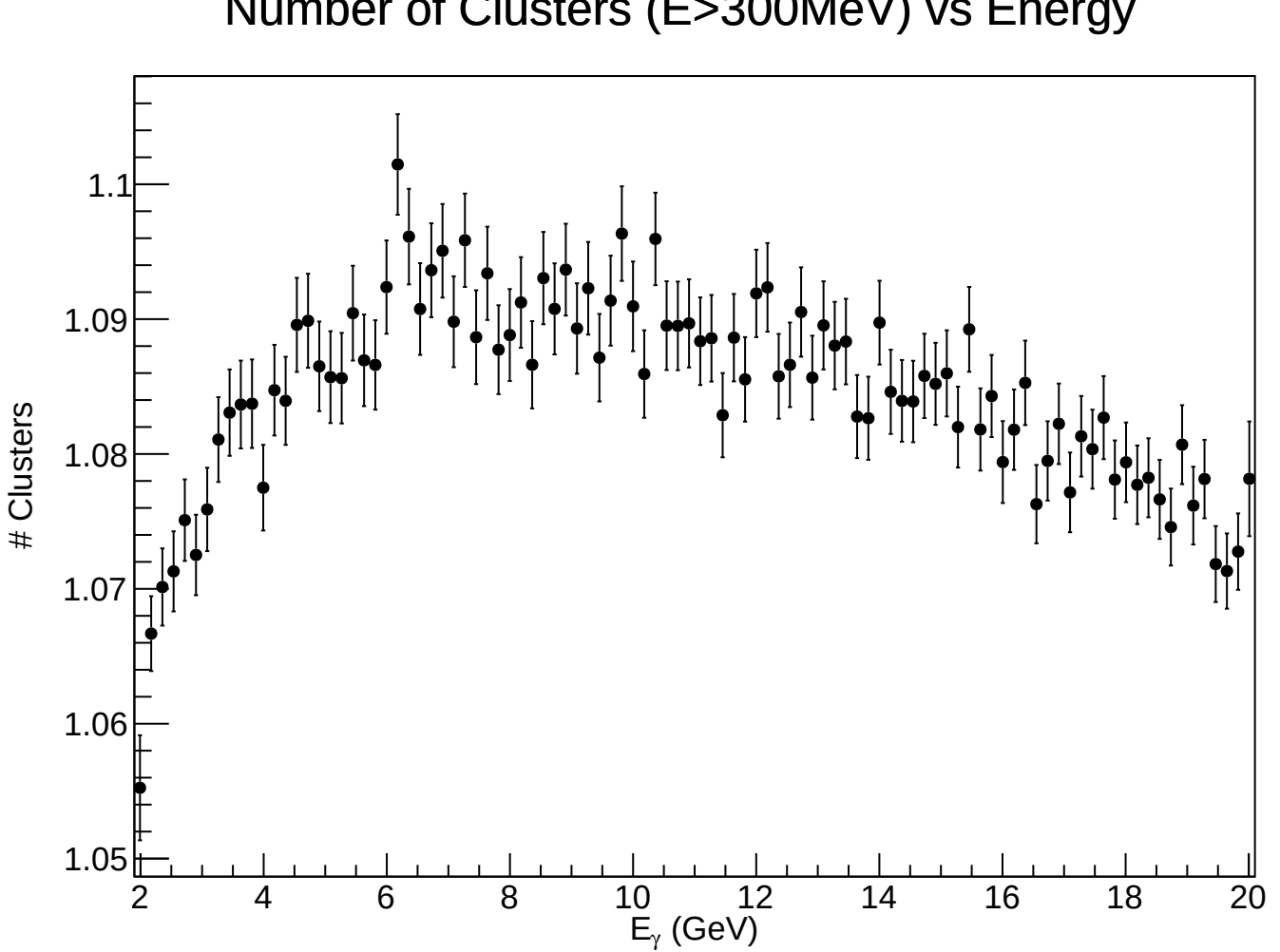

χ^2 Distribution of Correct Clusters w/ E>300MeV
Normalized Counts
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
χ^2

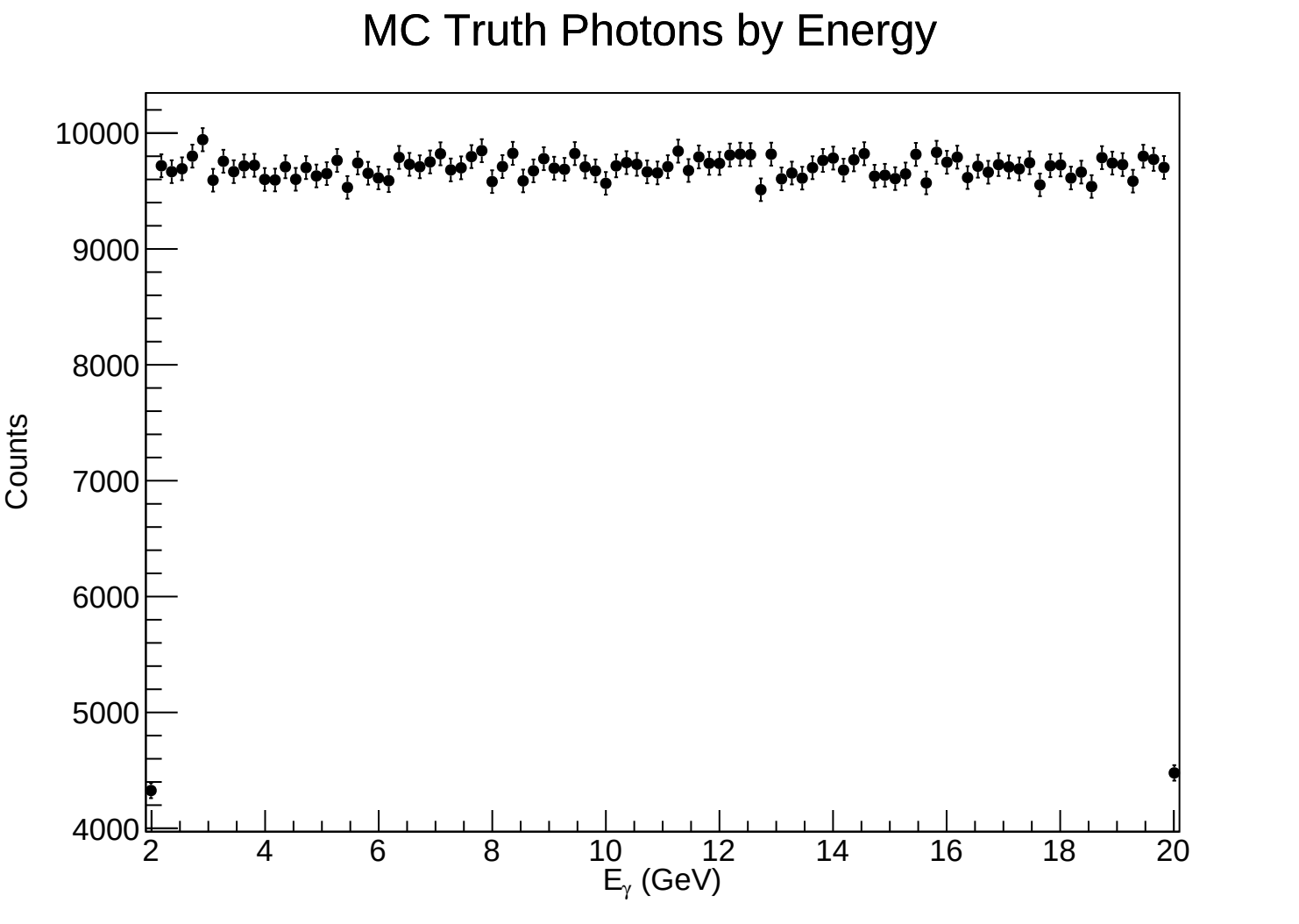

χ^2 Distribution of Incorrect Clusters w/ E>300MeV
Normalized Counts
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
χ^2

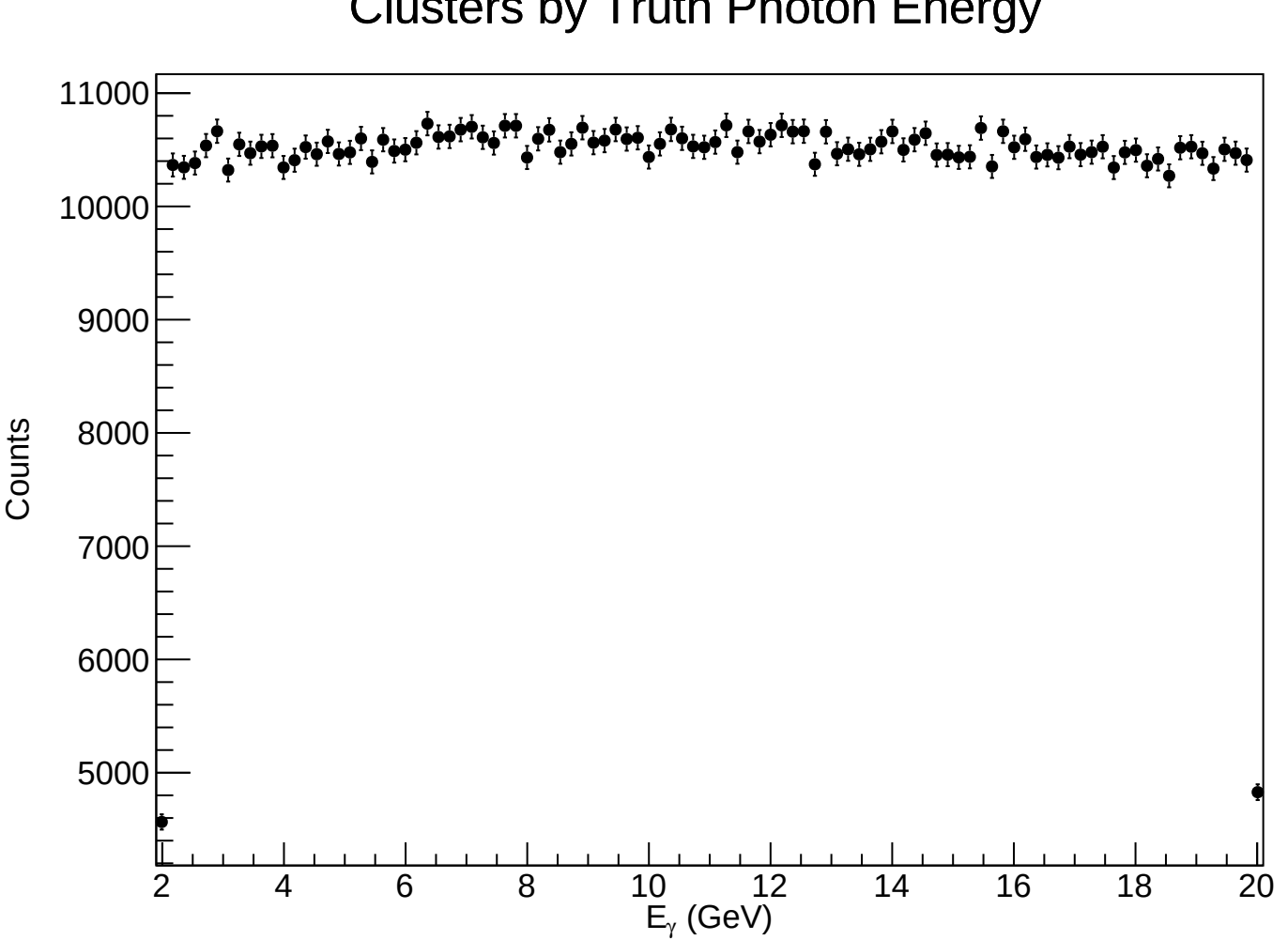

Correct and Incorrect Cluster χ^2 Distributions
Correct Clusters
Incorrect Clusters
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Cluster χ^2

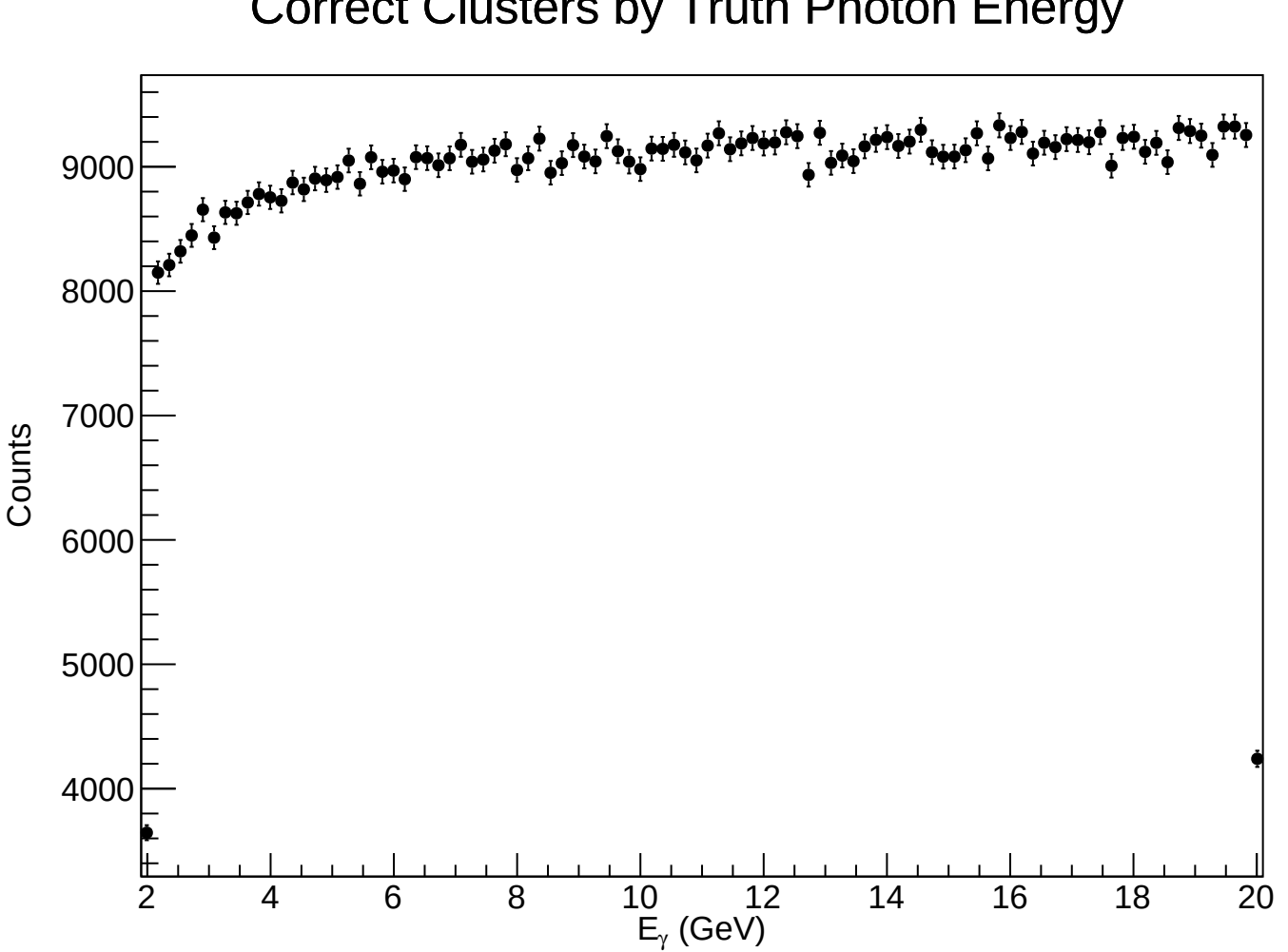

Number of Clusters (E>300MeV) vs Energy
Clusters
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
2
4
6
8
10
12
14
16
18
20
Eγ (GeV) (GeV)
1800
1600
1400
1200
1000
8000
6000
4000
2000

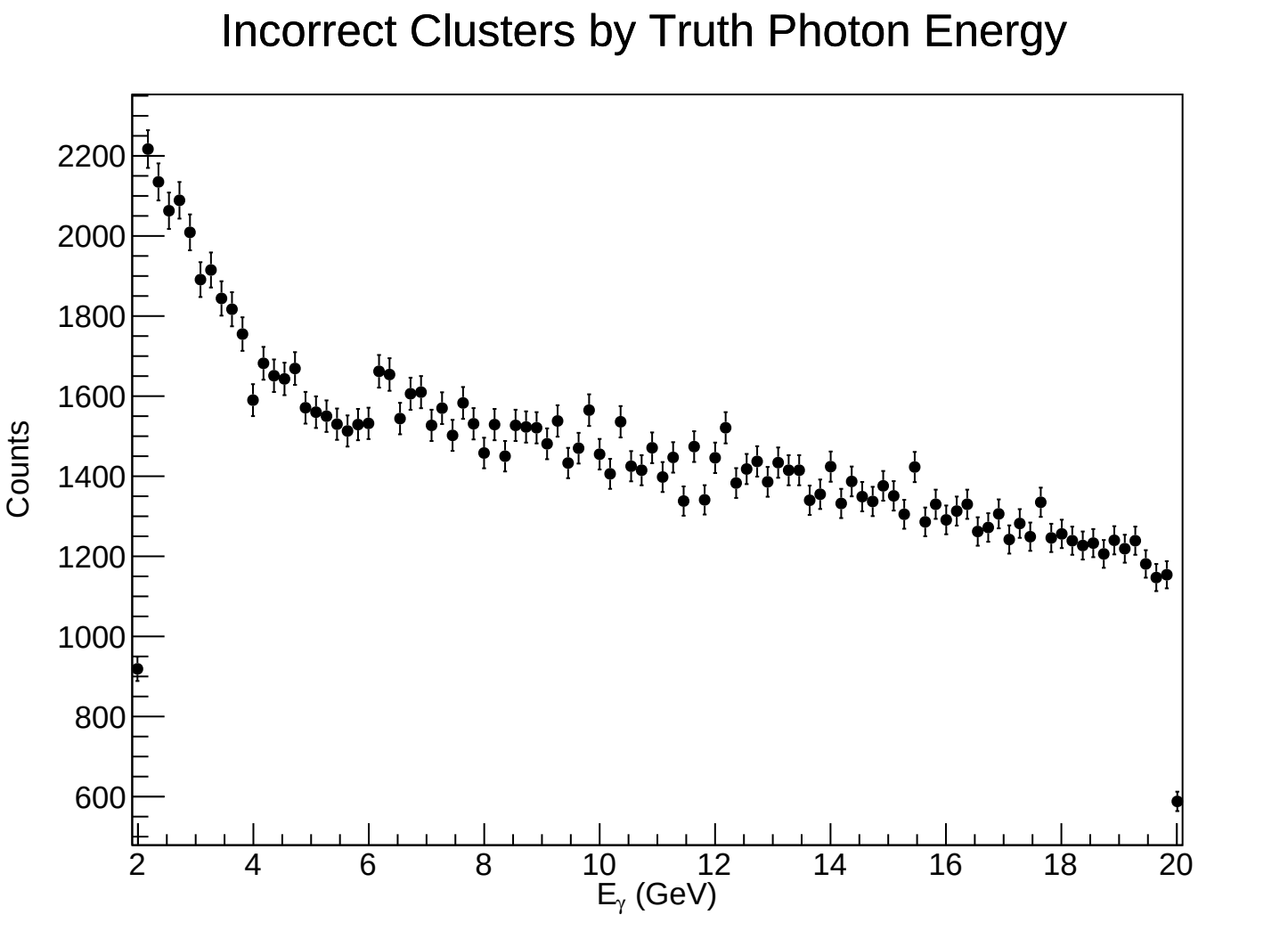

Number of Clusters (E>300MeV)
92.2%
6.8%
<0.9%
<0.1%
Normalized Counts
Clusters
1
10^{-1}
10^{-2}
10^{-3}
–0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5

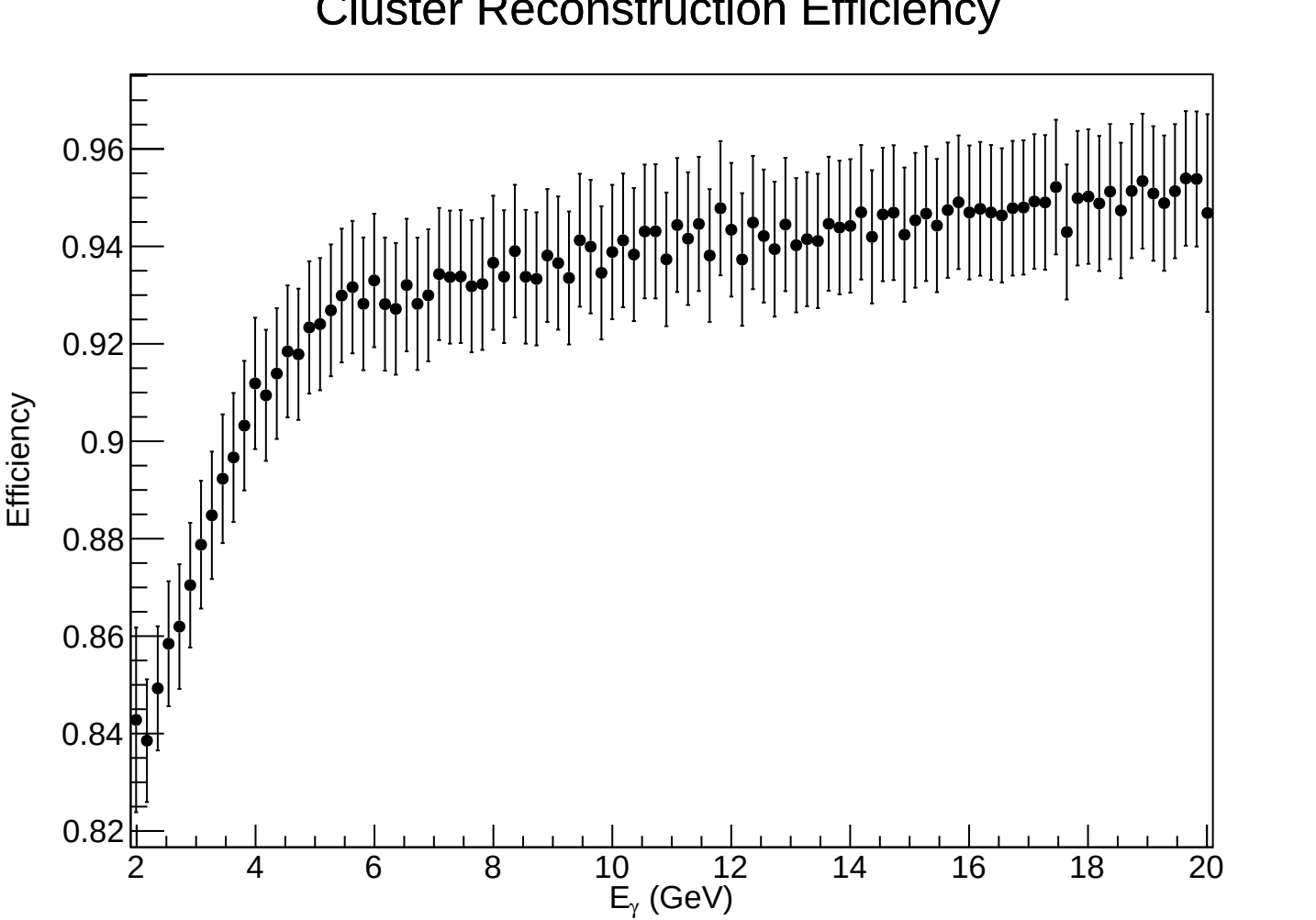

Number of Clusters (E>300MeV) vs Energy
Clusters
1.1
1.09
1.08
1.07
1.06
1.05
2
4
6
8
10
12
14
16
18
20
E_γ (GeV)

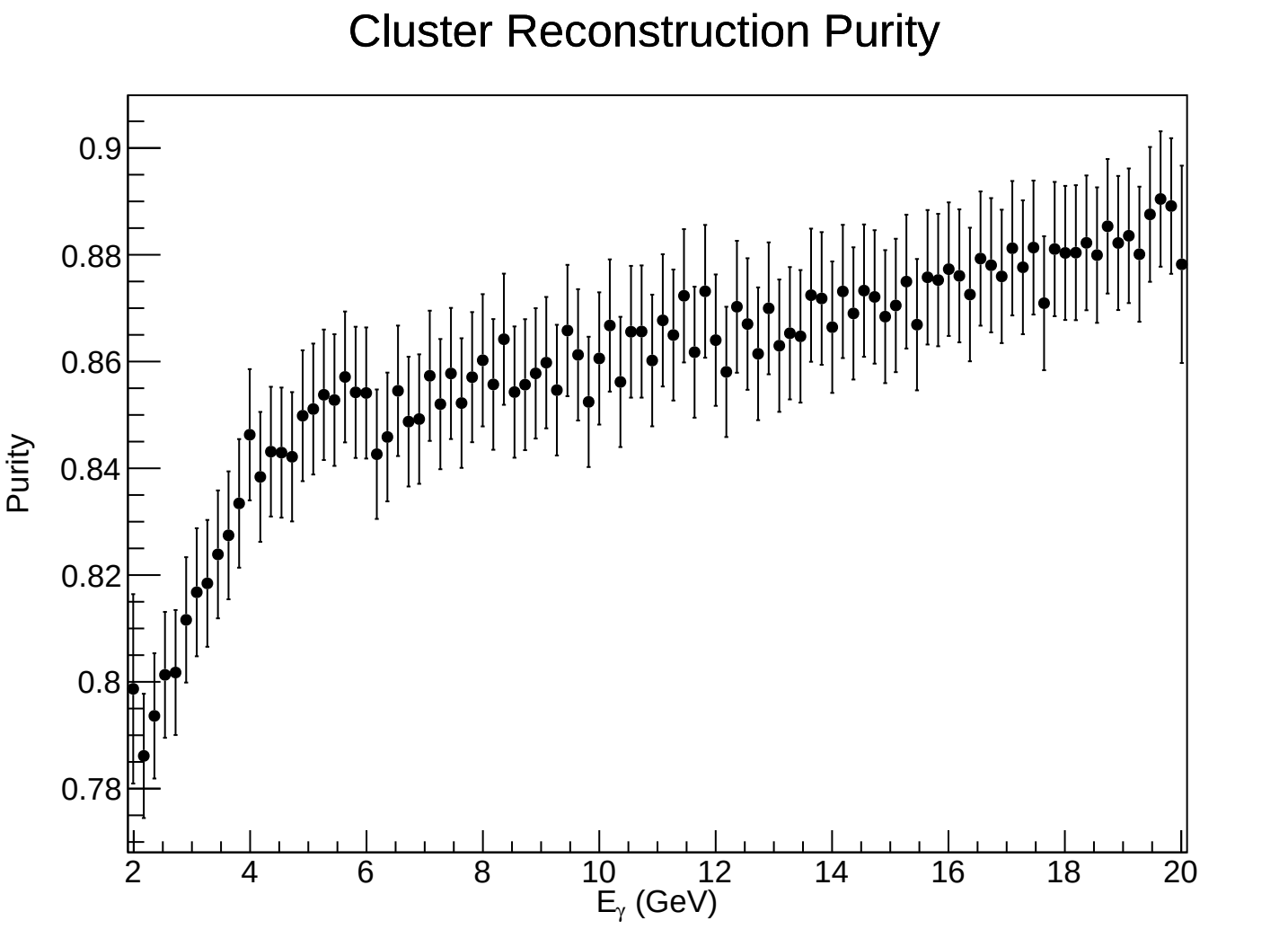

MC Truth Photons by Energy
Counts
10000
9000
8000
7000
6000
5000
4000
2
4
6
8
10
12
14
16
18
20
E_γ (GeV)

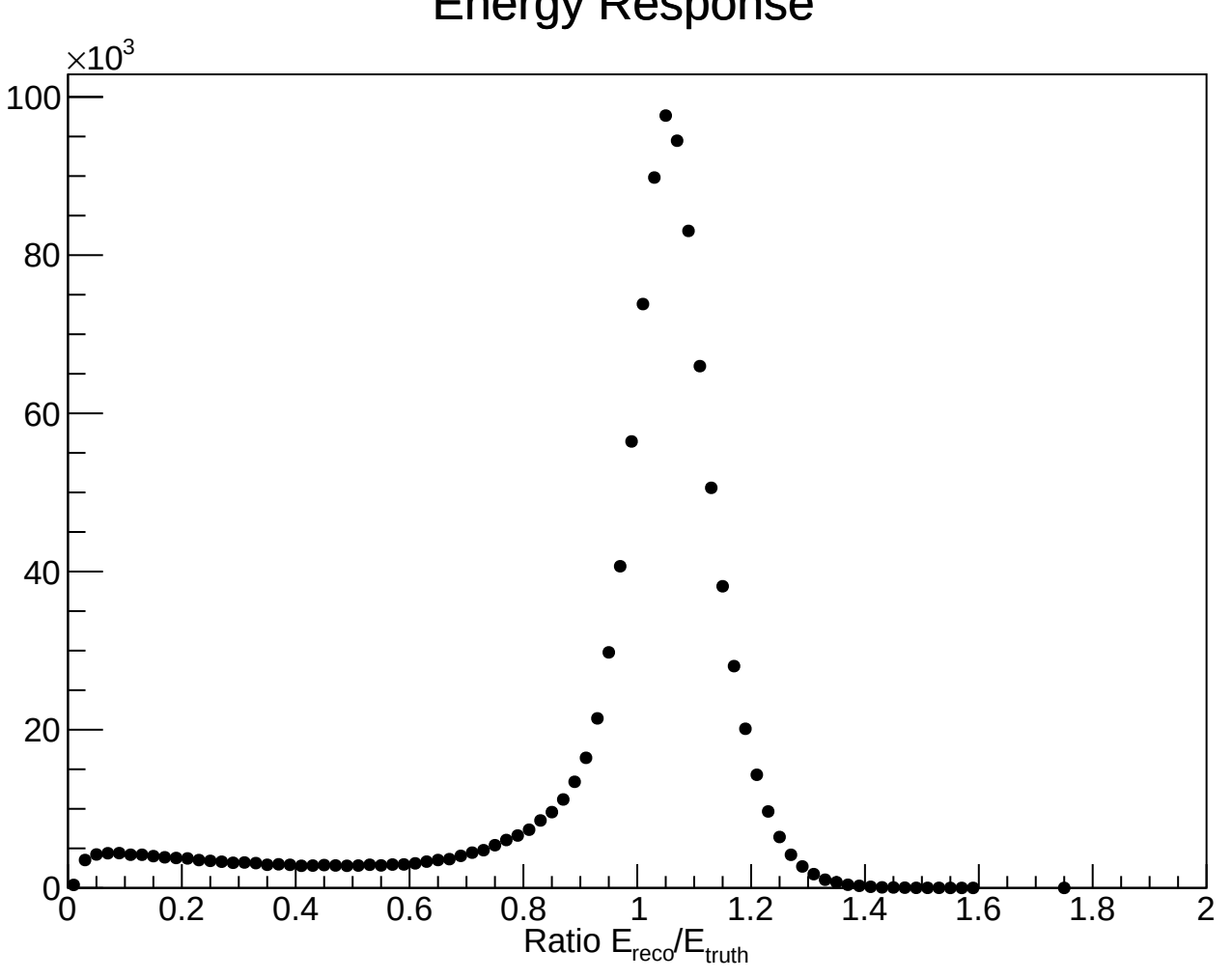

Clusters by Truth Photon Energy
Counts
11000
10000
9000
8000
7000
6000
5000
2
4
6
8
10
12
14
16
18
20
E_γ (GeV)


Correct Clusters by Truth Photon Energy
Counts
9000
8000
7000
6000
5000
4000
2
4
6
8
10
12
14
16
18
20
E_γ (GeV)

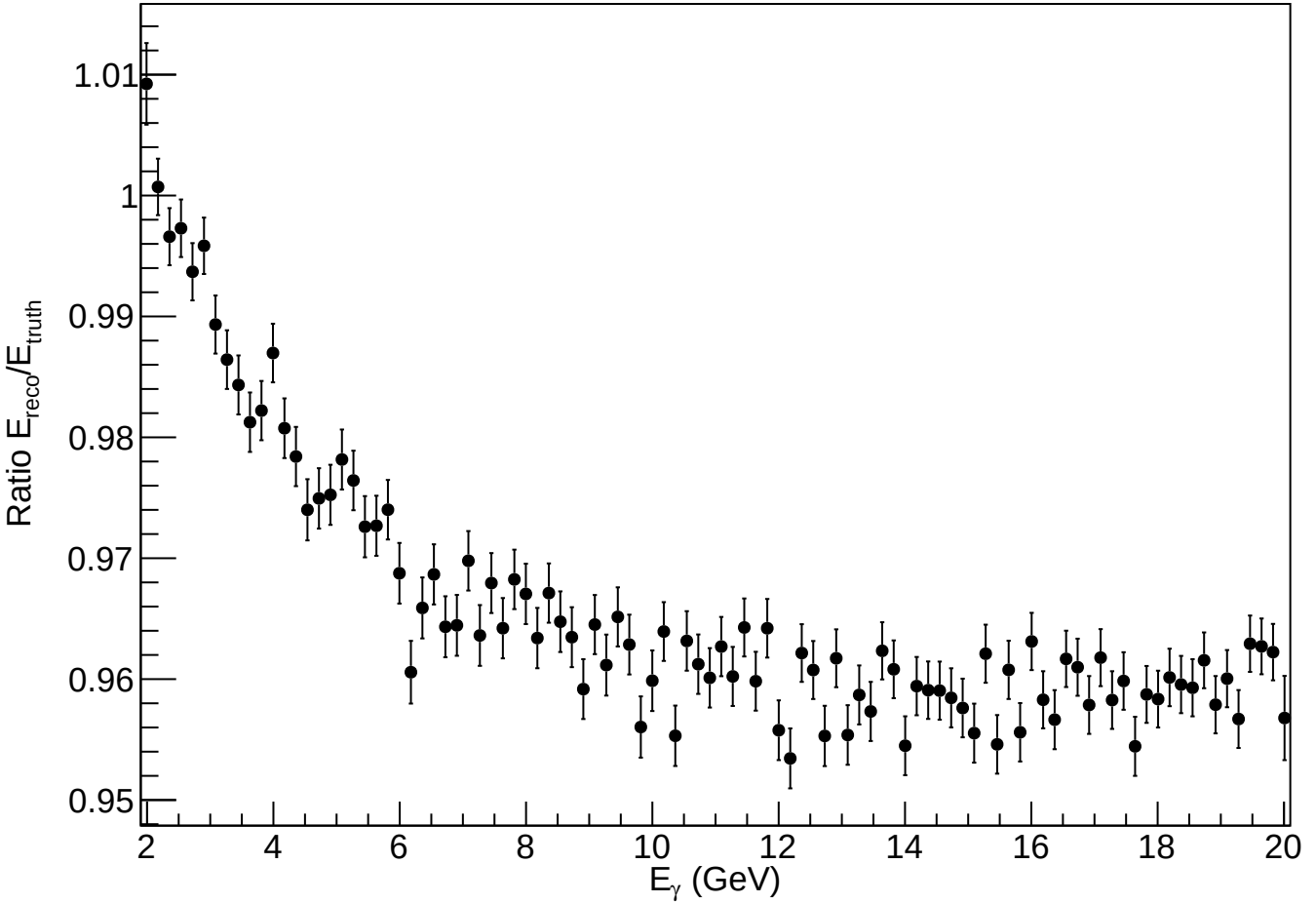

Incorrect Clusters by Truth Photon Energy
Counts
2200
2000
1800
1600
1400
1200
1000
800
600
2
4
6
8
10
12
14
16
18
20
E_γ (GeV)

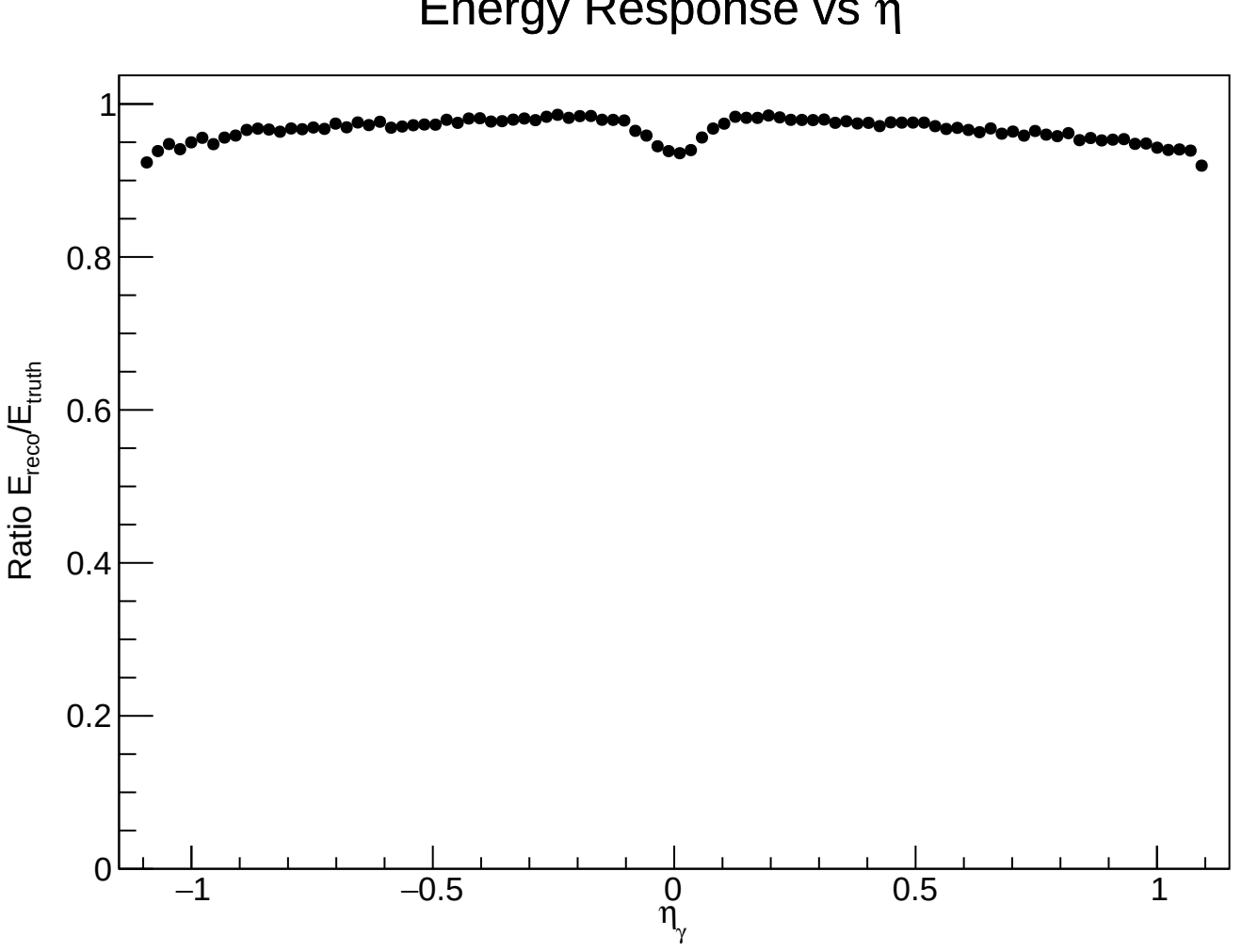

Cluster Reconstruction Efficiency
Efficiency
0.96
0.94
0.92
0.9
0.88
0.86
0.84
0.82
2
4
6
8
10
12
14
16
18
20
E_γ (GeV)

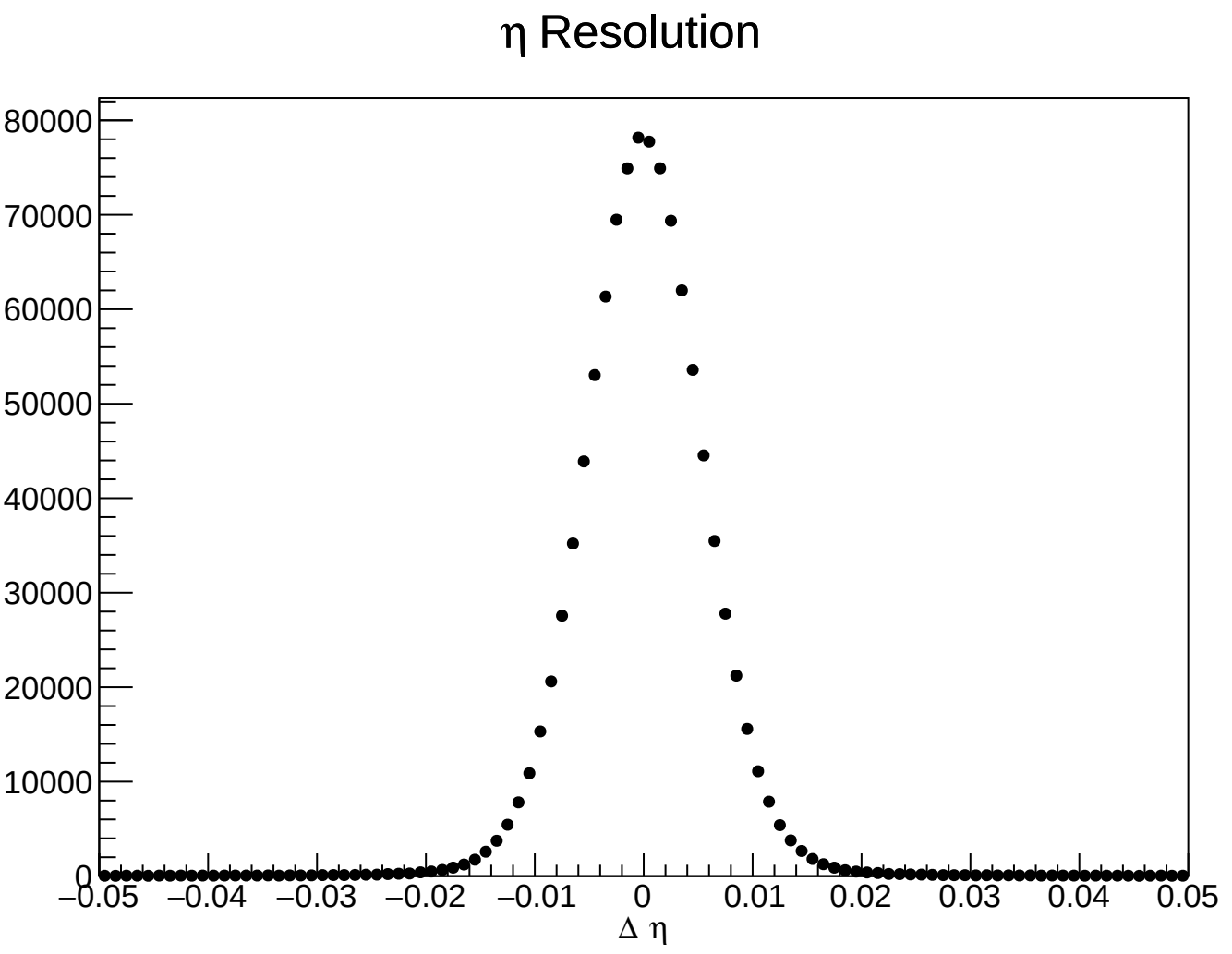

Cluster Reconstruction Purity
Purity
0.9
0.88
0.86
0.84
0.82
0.8
0.78
2
4
6
8
10
12
14
16
18
20
E_γ (GeV)

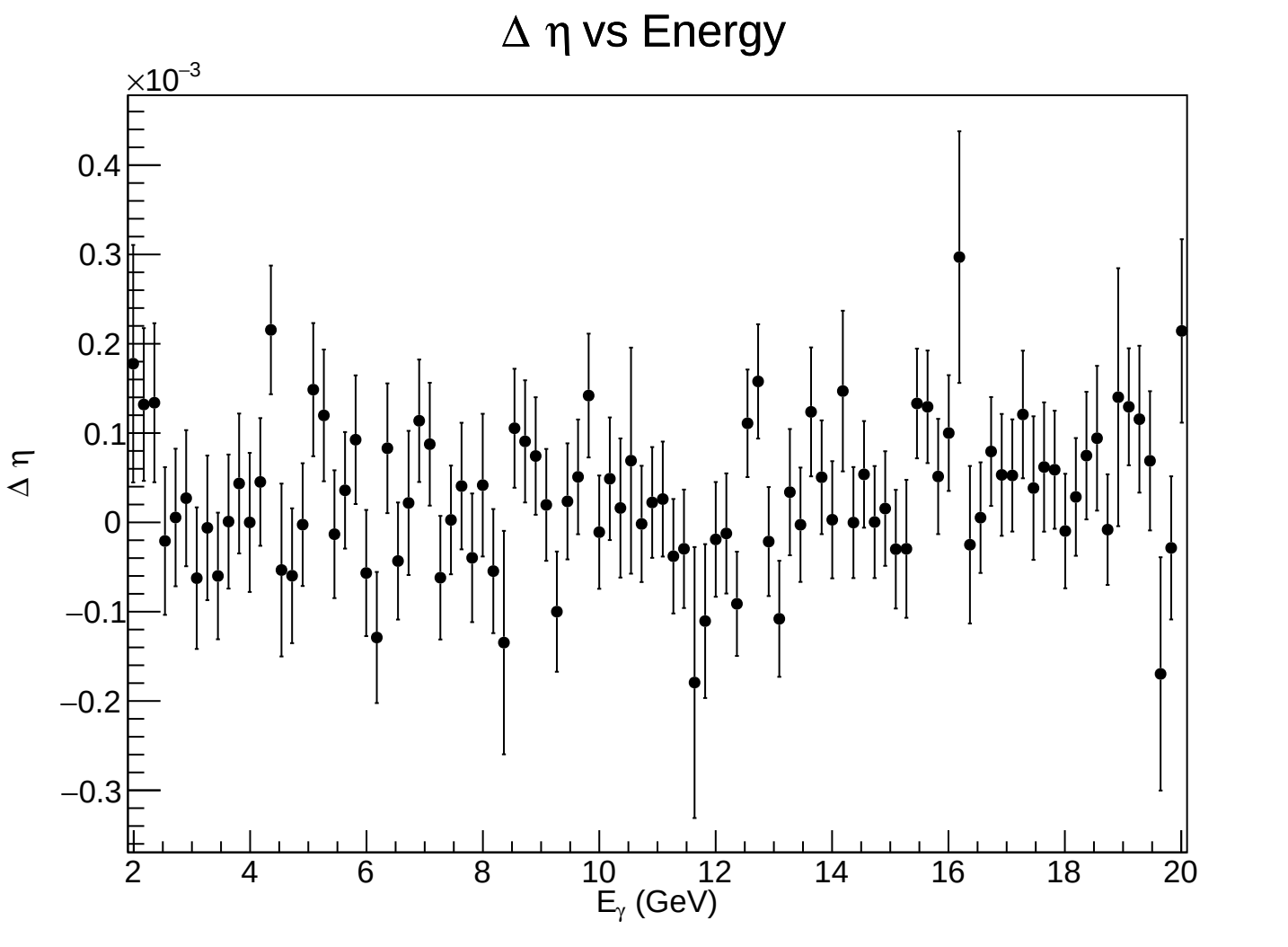

Energy Response
×10^3
100
80
60
40
20
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio E_reco/E_truth

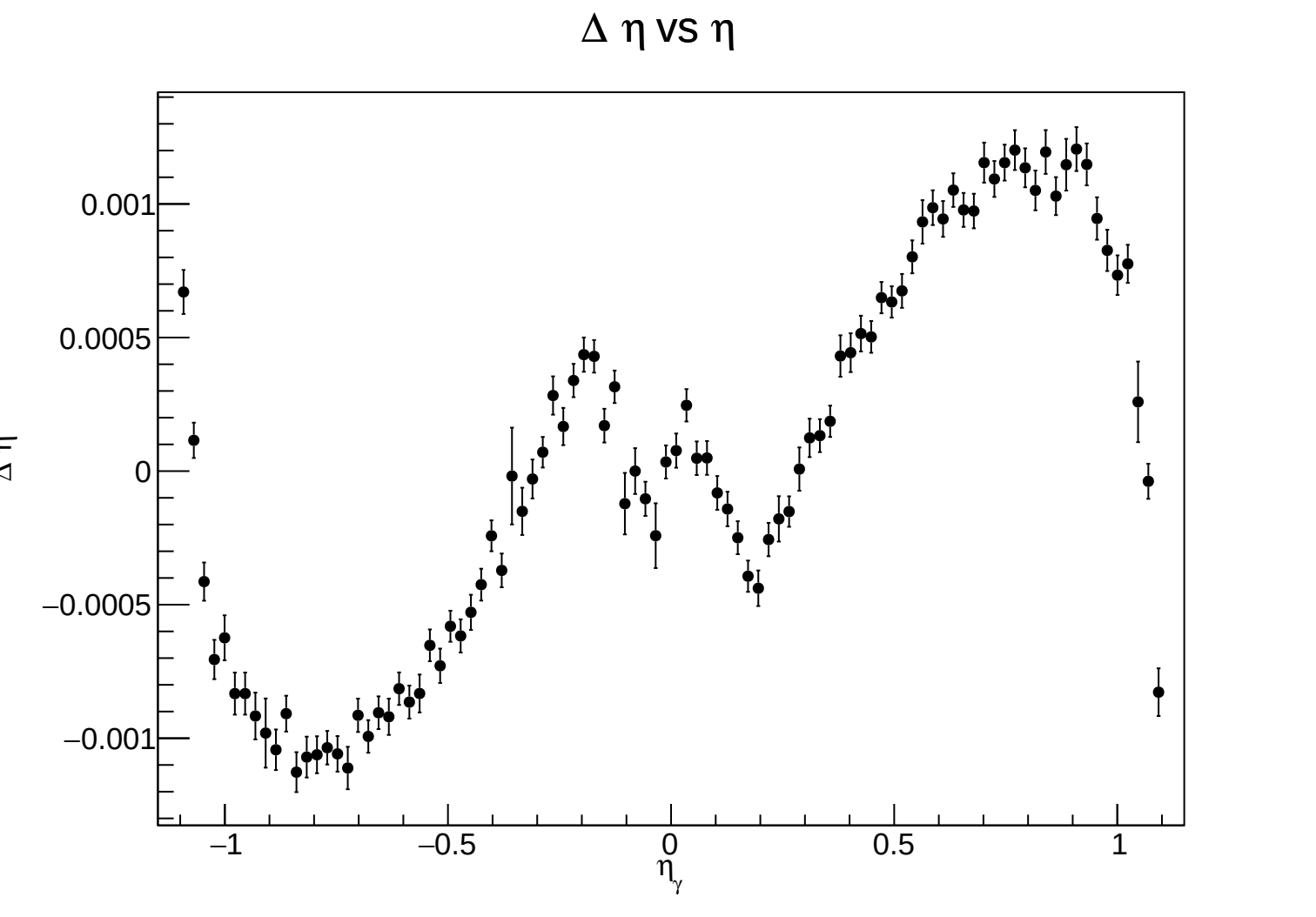
Energy Response vs Energy

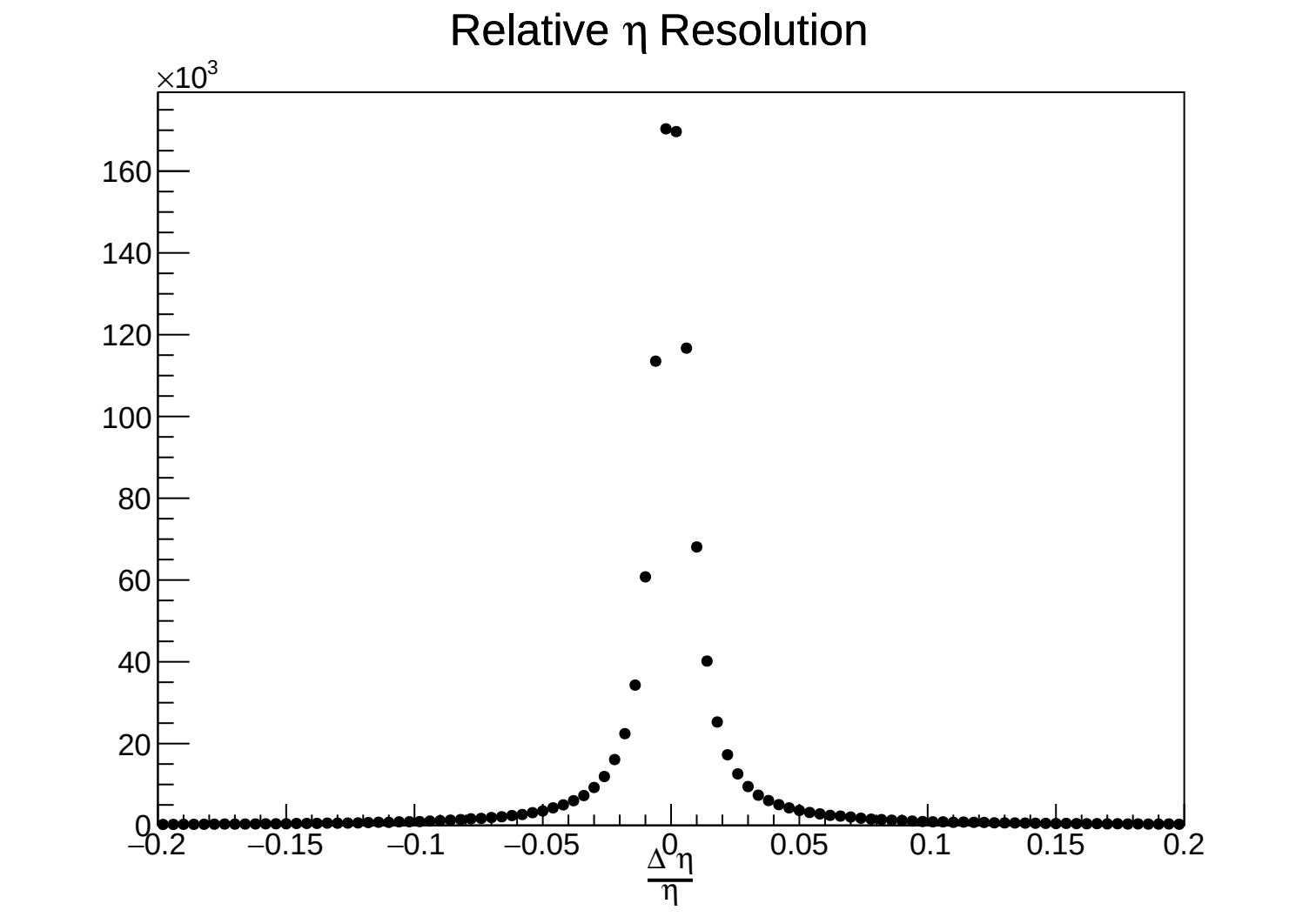


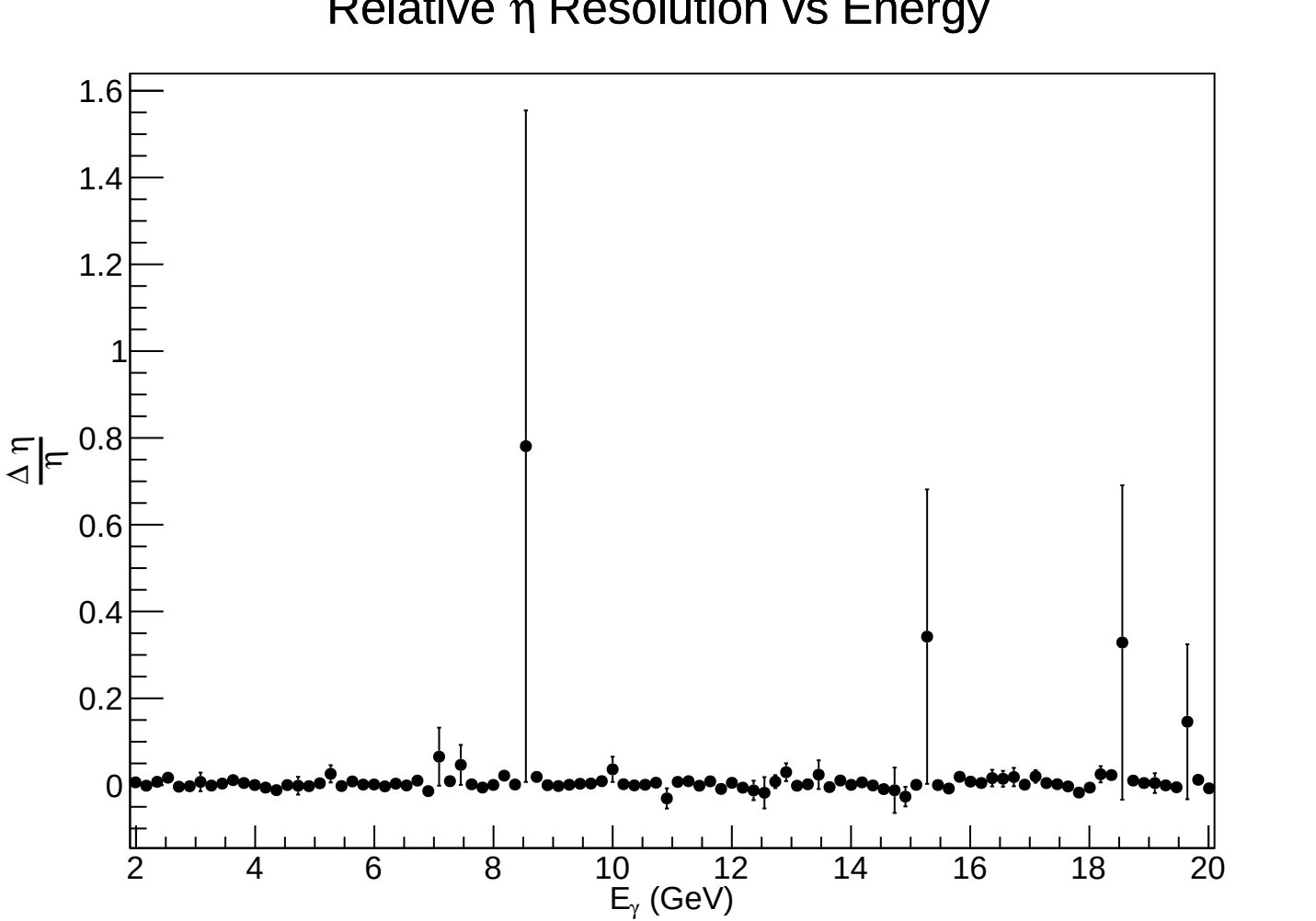

Energy Response vs η
Ratio E_{reco}/E_{truth}
1
0.8
0.6
0.4
0.2
0
–1
–0.5
0
0.5
1
η_γ

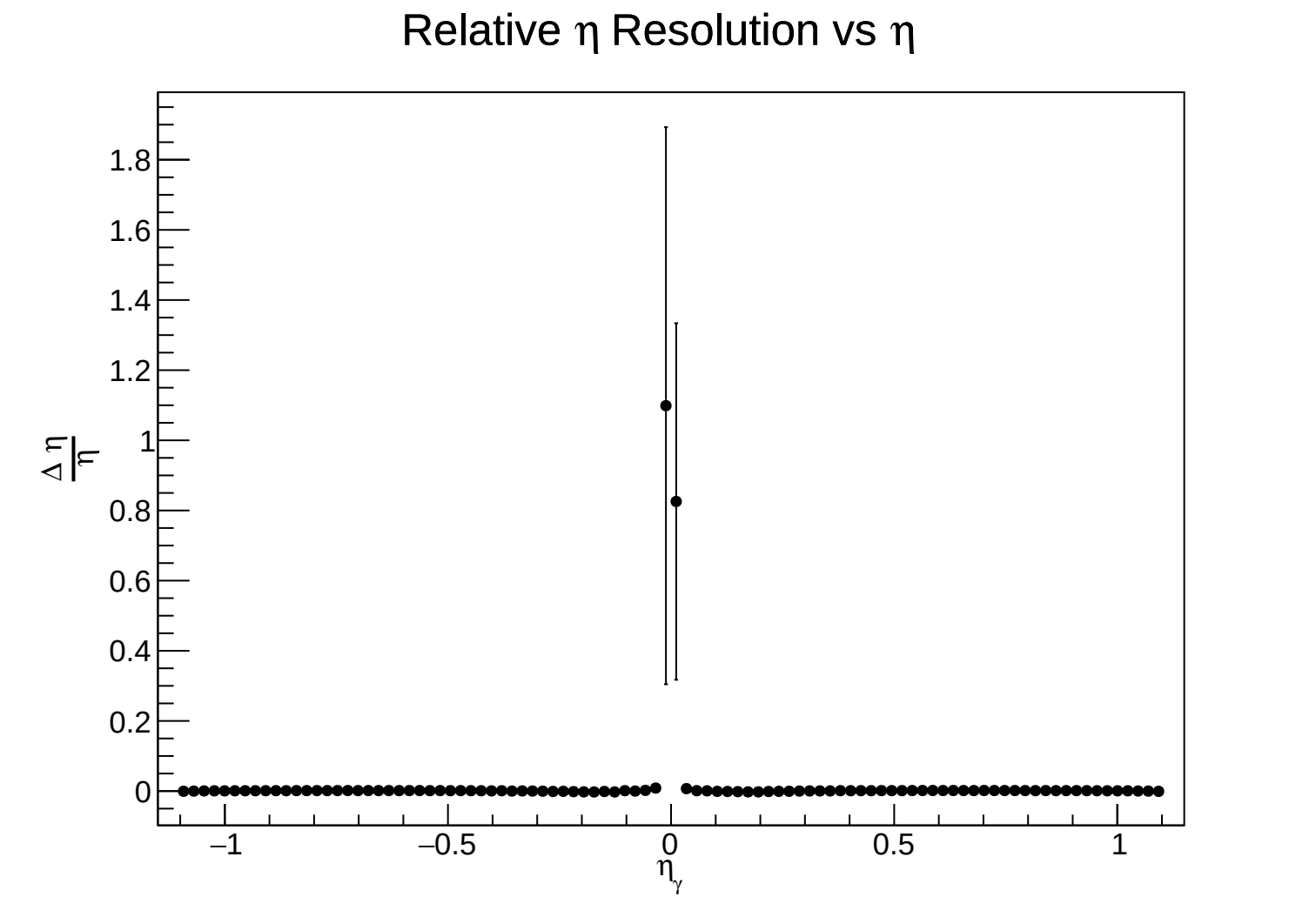

η Resolution
80000
70000
60000
50000
40000
30000
20000
10000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

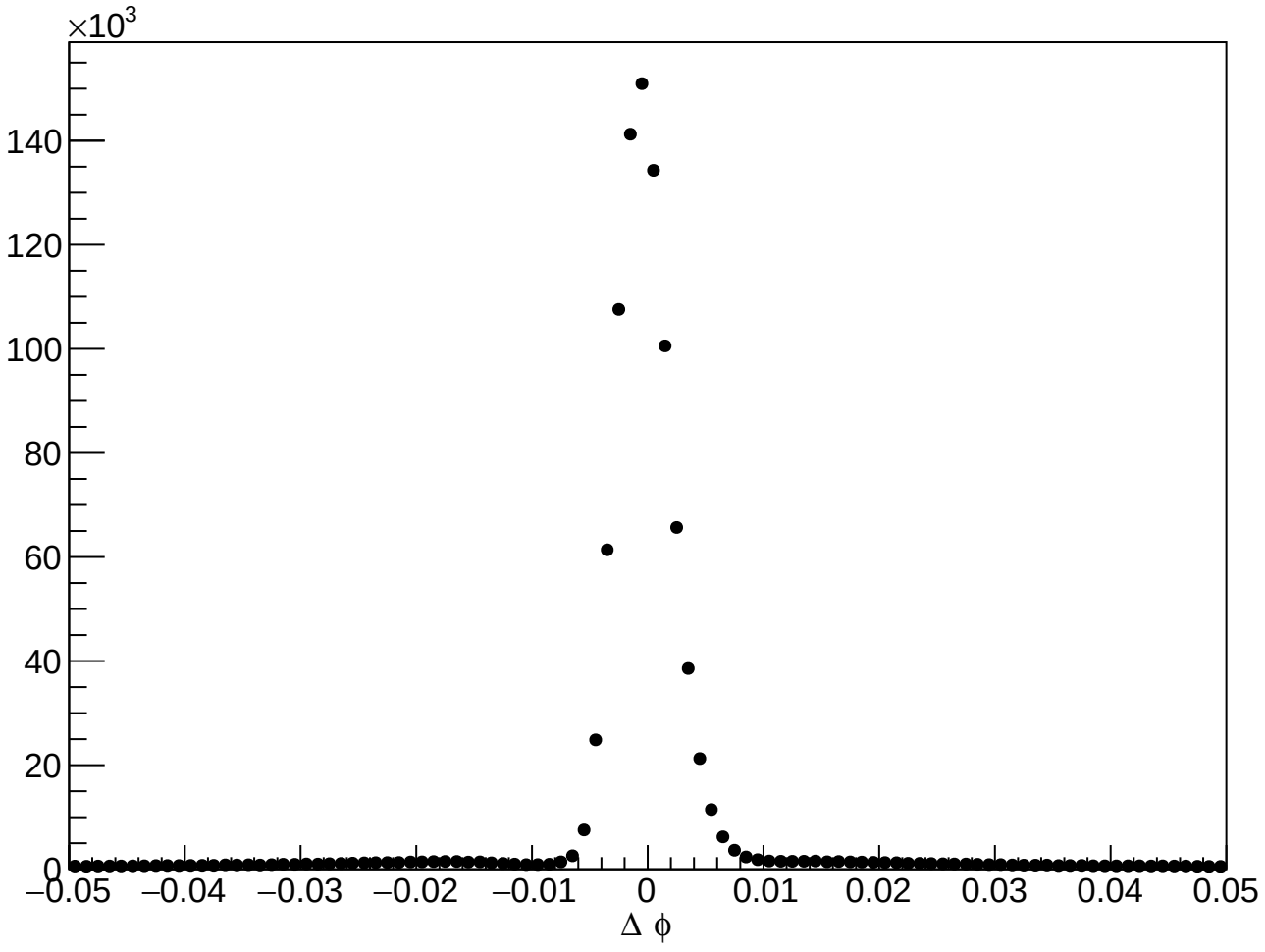

Δ η vs Energy
×10⁻³
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
Δ η
2
4
6
8
10
12
14
16
18
20
Eγ (GeV)

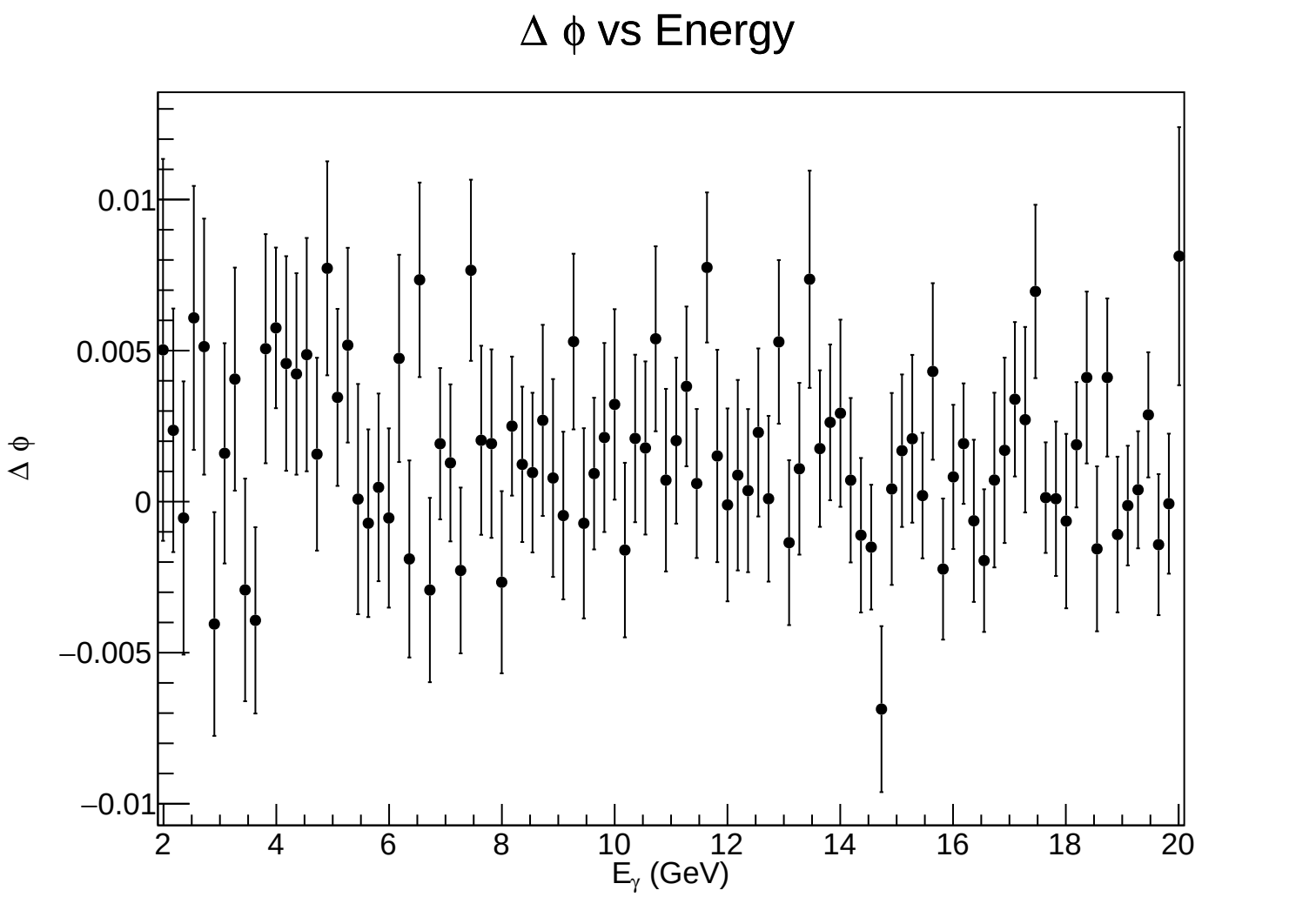

Δ η vs η
0.001
0.0005
0
−0.0005
−0.001
Δ η
−1
−0.5
0
0.5
1
η_γ

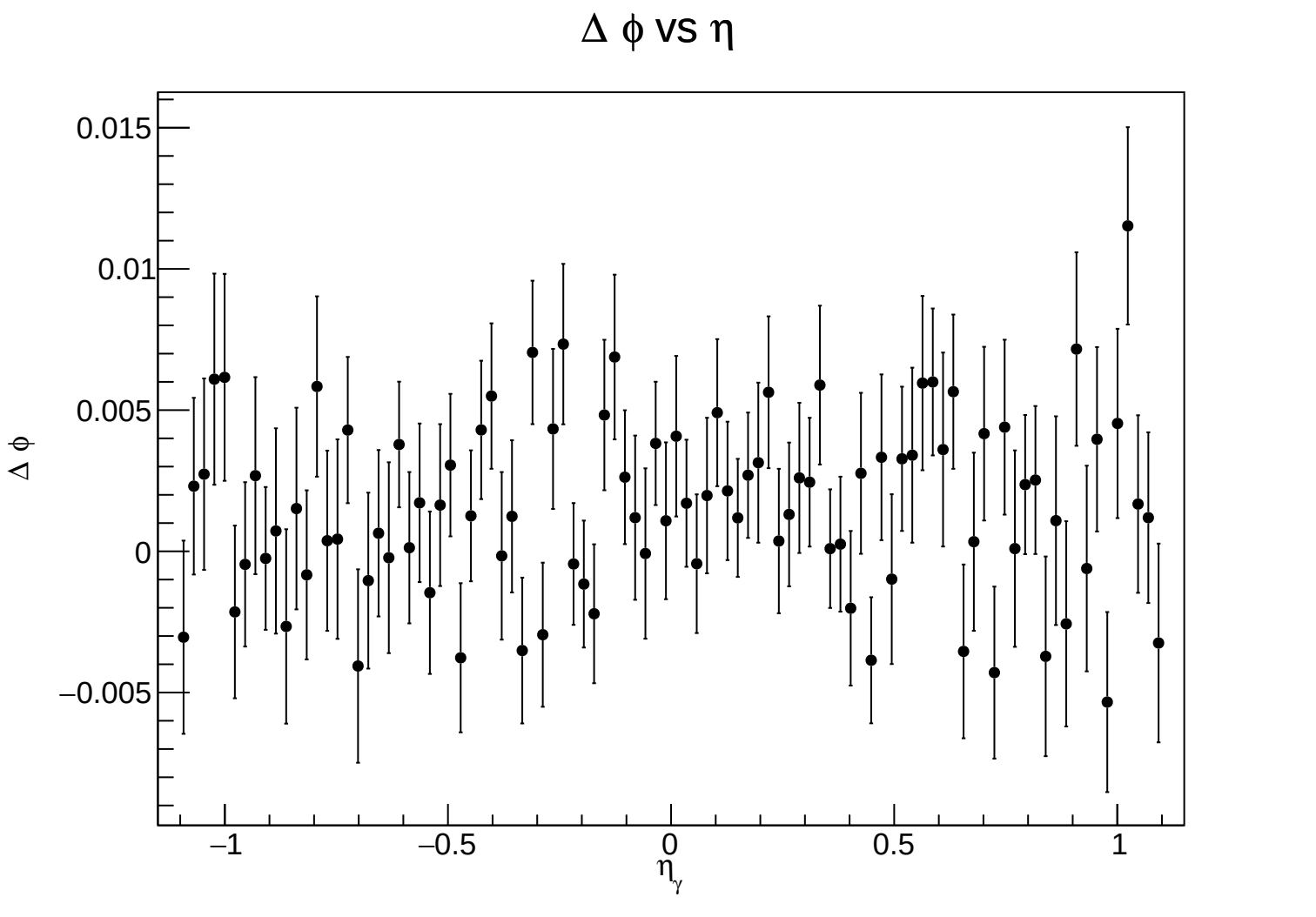

Relative η Resolution
×10^3
160
140
120
100
80
60
40
20
0
–0.2
–0.15
–0.1
–0.05
0
0.05
0.1
0.15
0.2
Δη / η

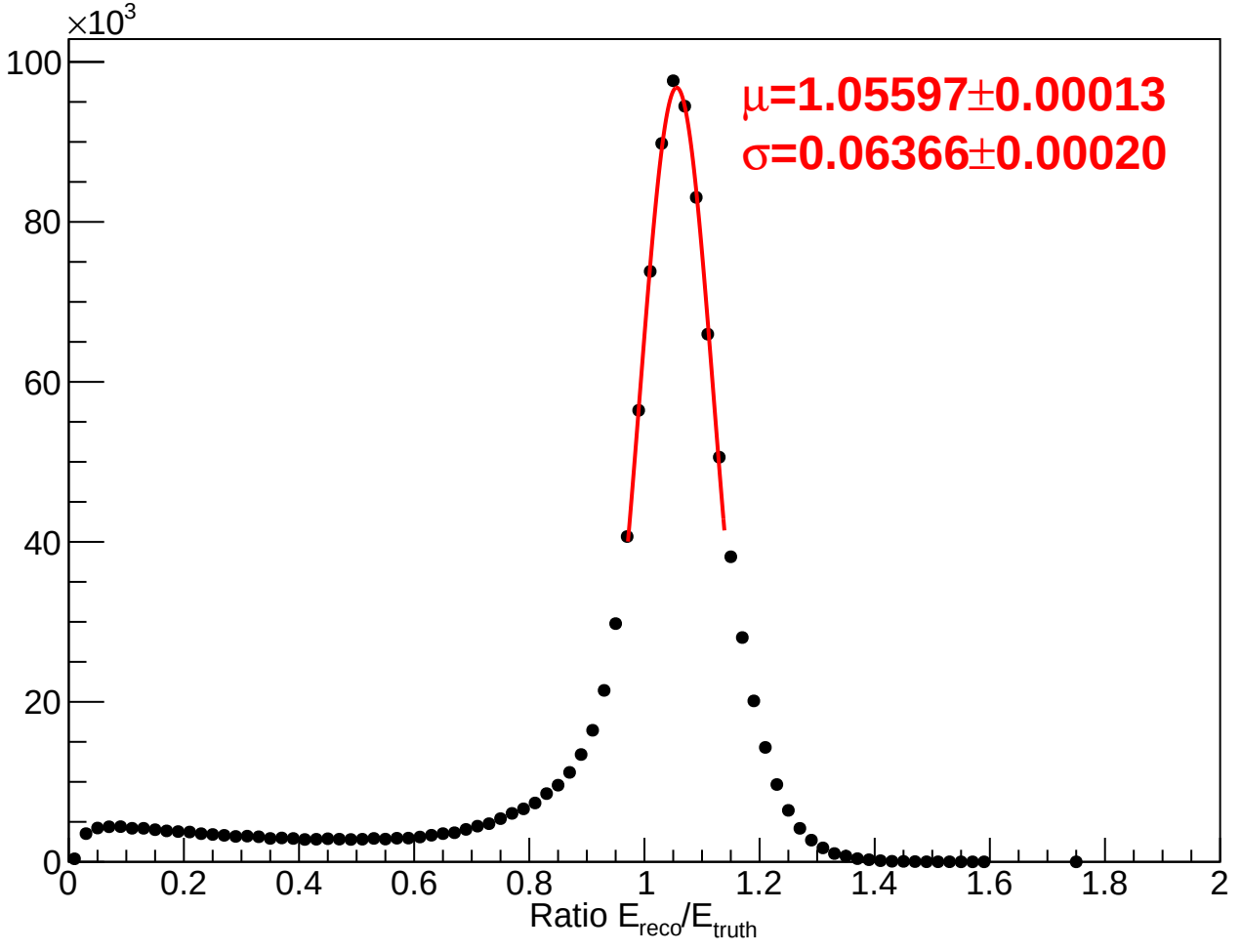

Relative η Resolution vs Energy
Δη/η
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
2
4
6
8
10
12
14
16
18
20
Eγ (GeV)

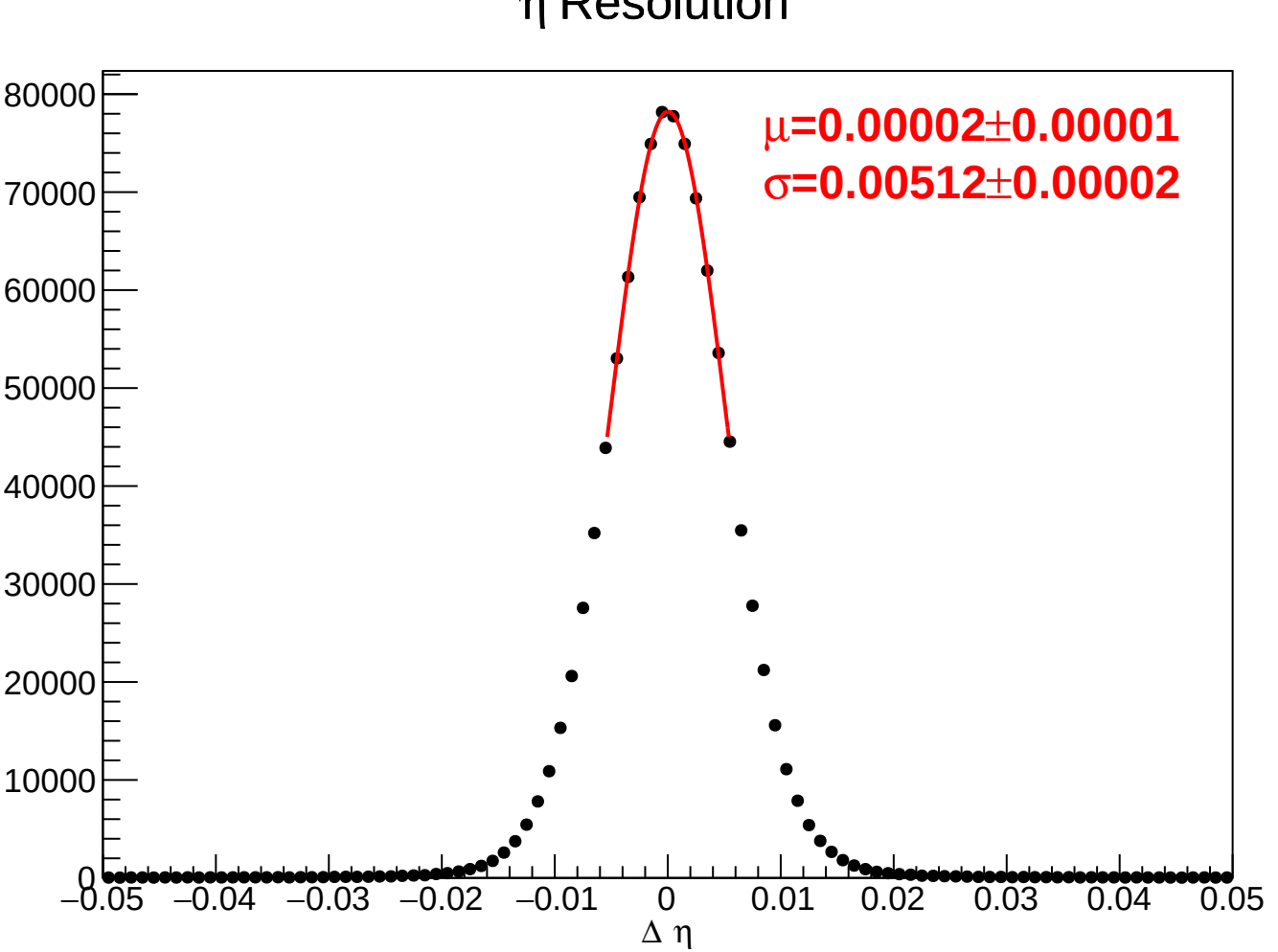

Relative η Resolution vs η
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Δ η / η
–1
–0.5
0
0.5
1
η_γ

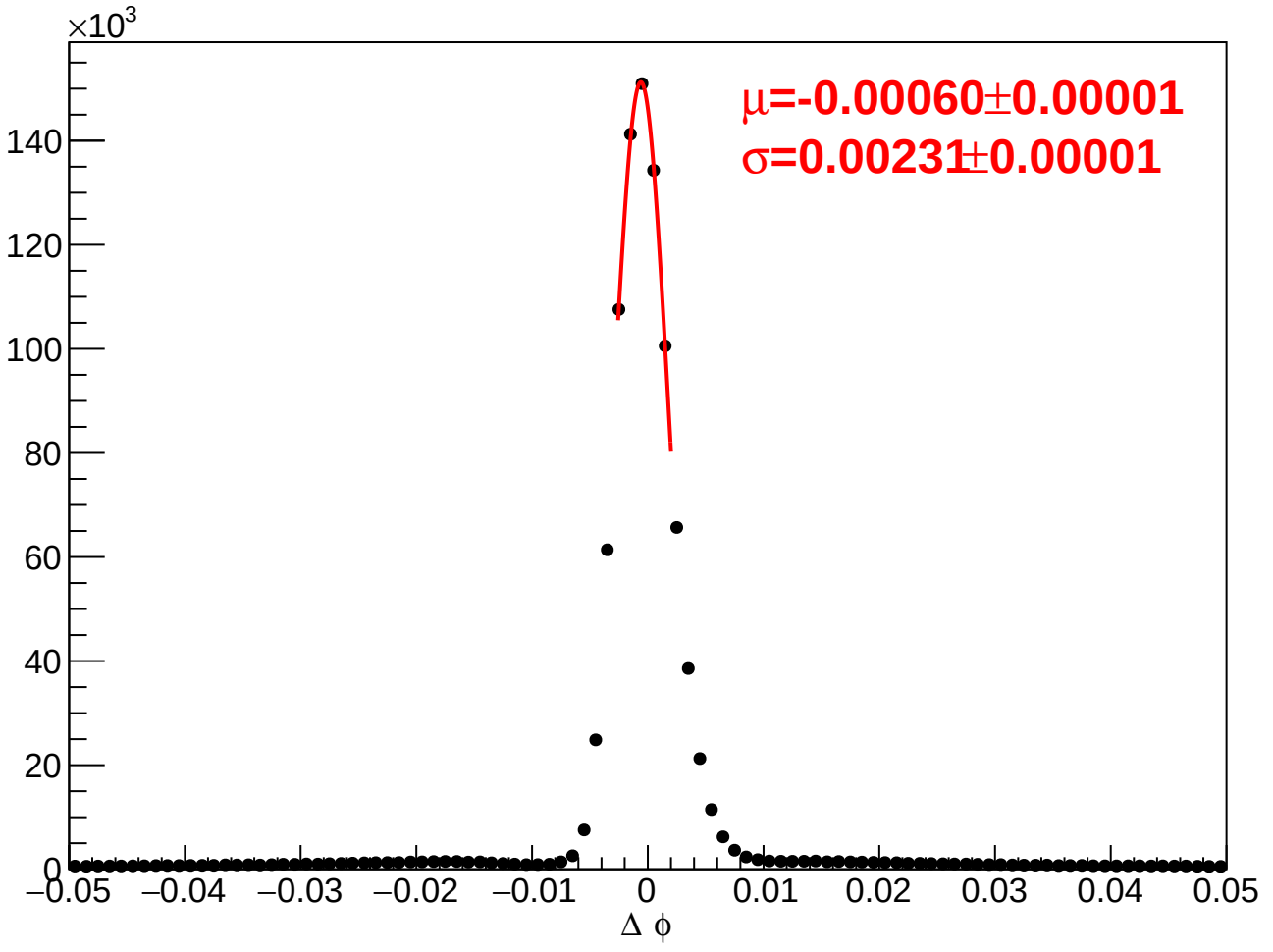

ϕ Resolution
×10^3
140
120
100
80
60
40
20
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

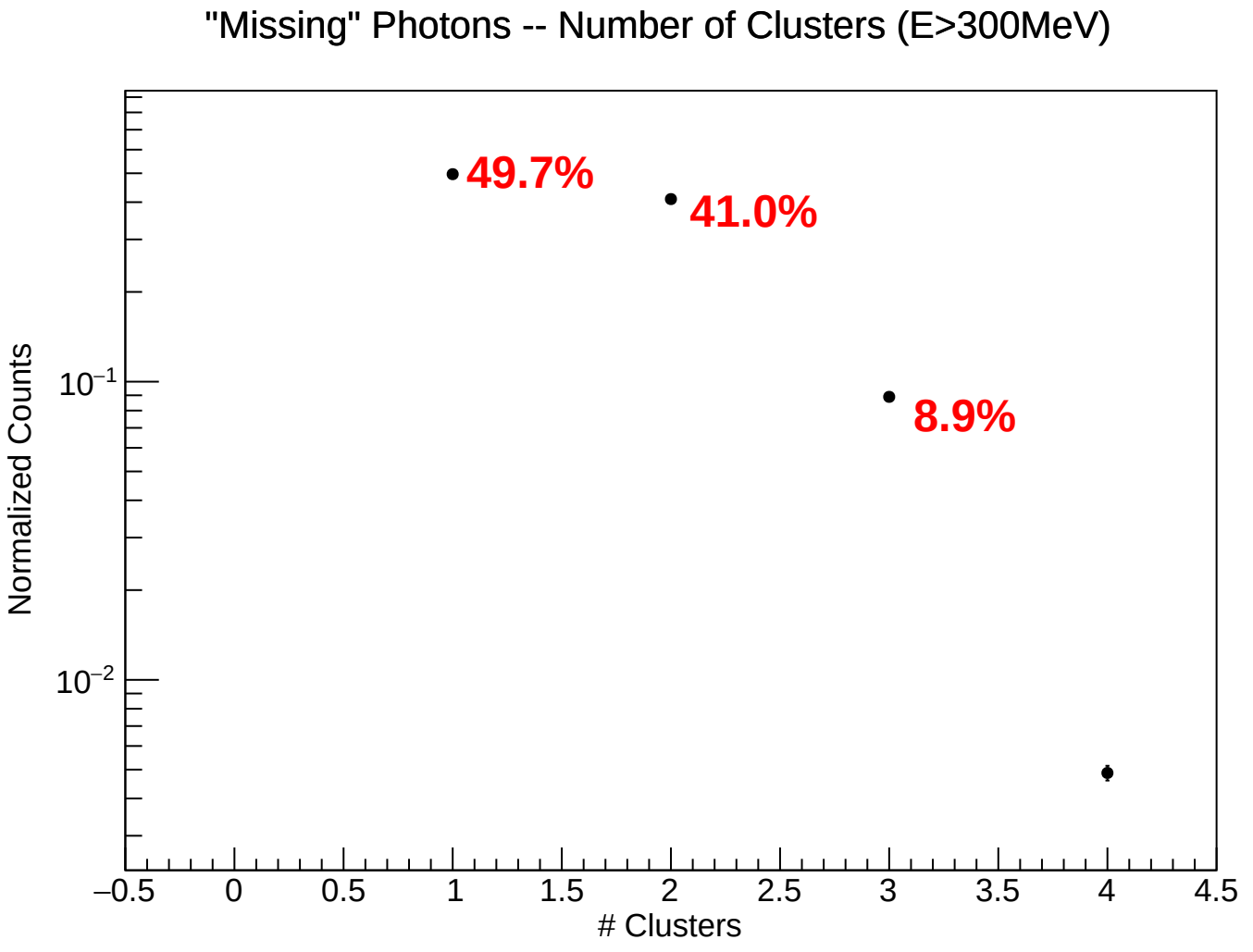

Δ ϕ vs Energy
0.01
0.005
0
−0.005
−0.01
Δ ϕ
2
4
6
8
10
12
14
16
18
20
Eγ (GeV)

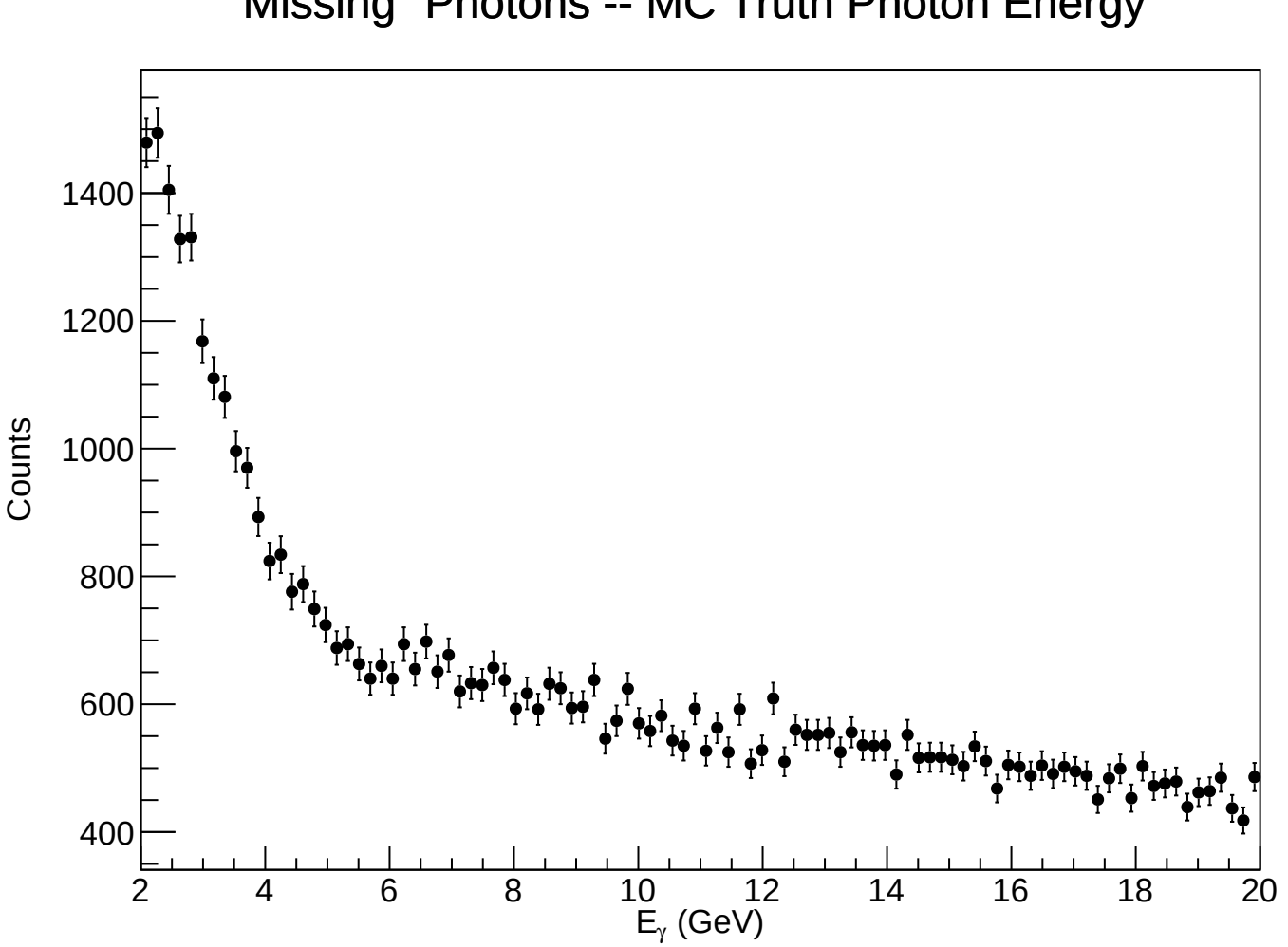

Δ ϕ vs η
0.015
0.01
0.005
0
−0.005
Δ ϕ
−1
−0.5
0
0.5
1
η_γ

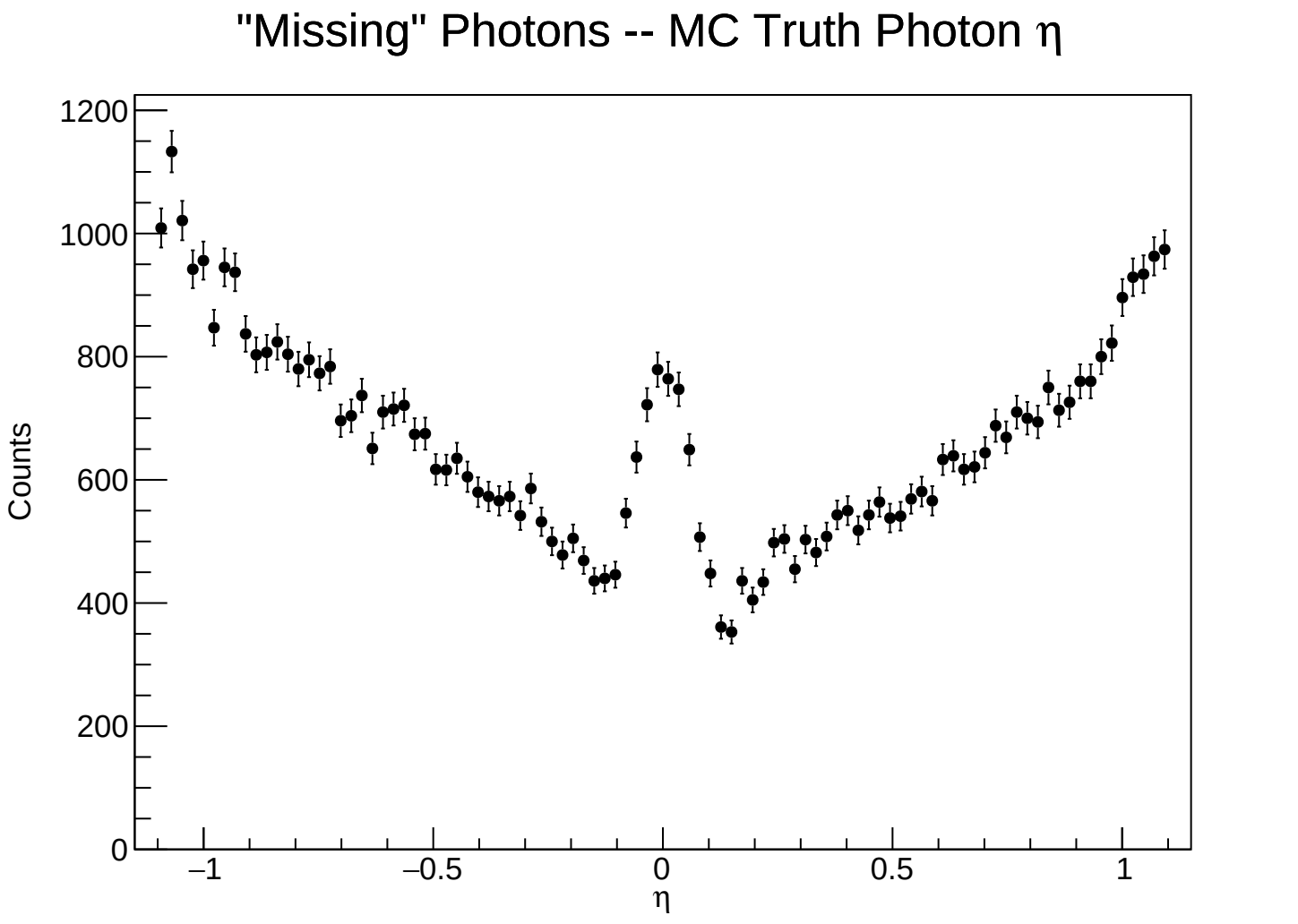

Energy Response
×10^3
100
80
60
40
20
0
μ=1.05597±0.00013
σ=0.06366±0.00020
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio E_reco/E_truth

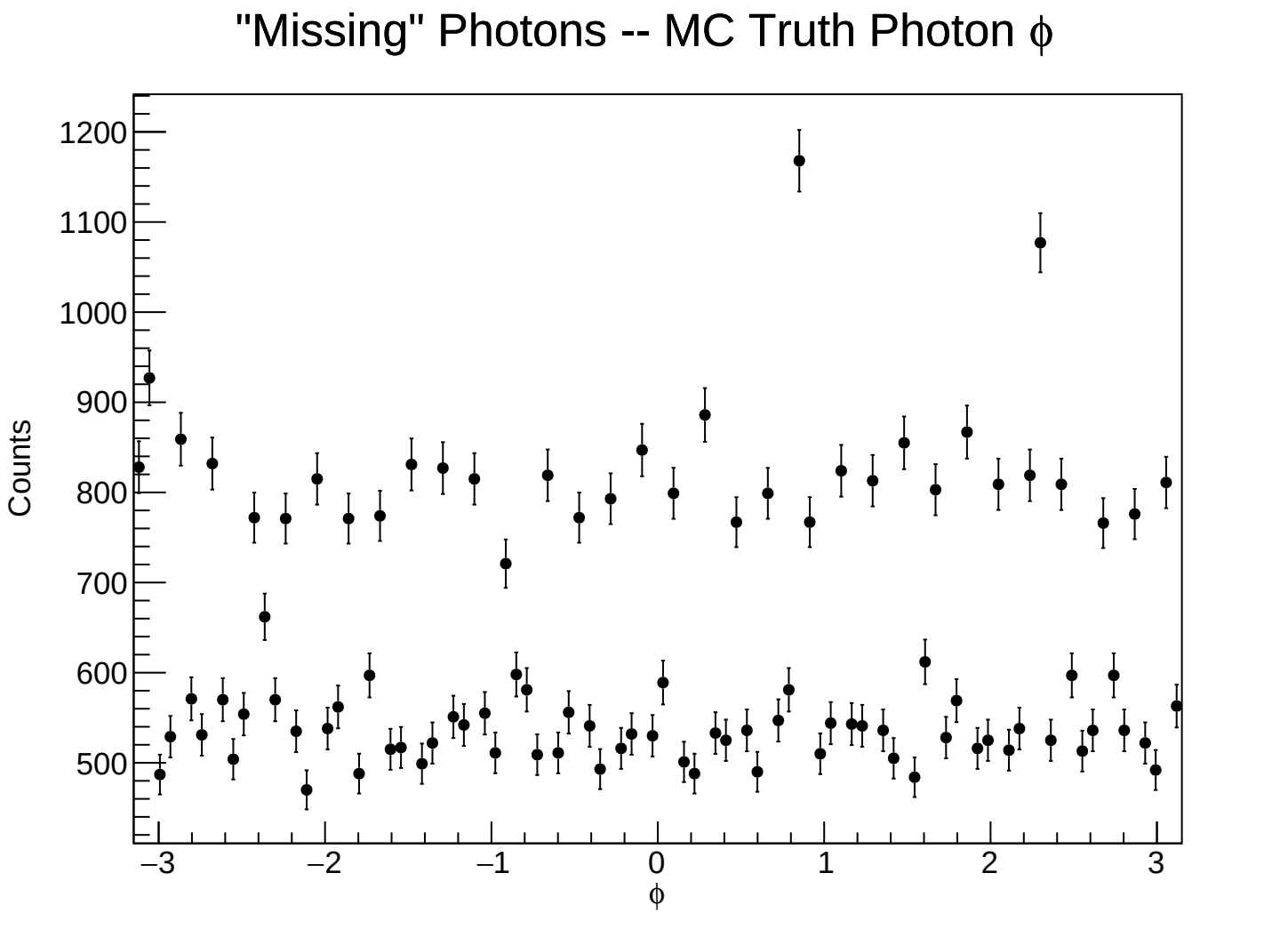

η Resolution
μ=0.00002±0.00001
σ=0.00512±0.00002
80000
70000
60000
50000
40000
30000
20000
10000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

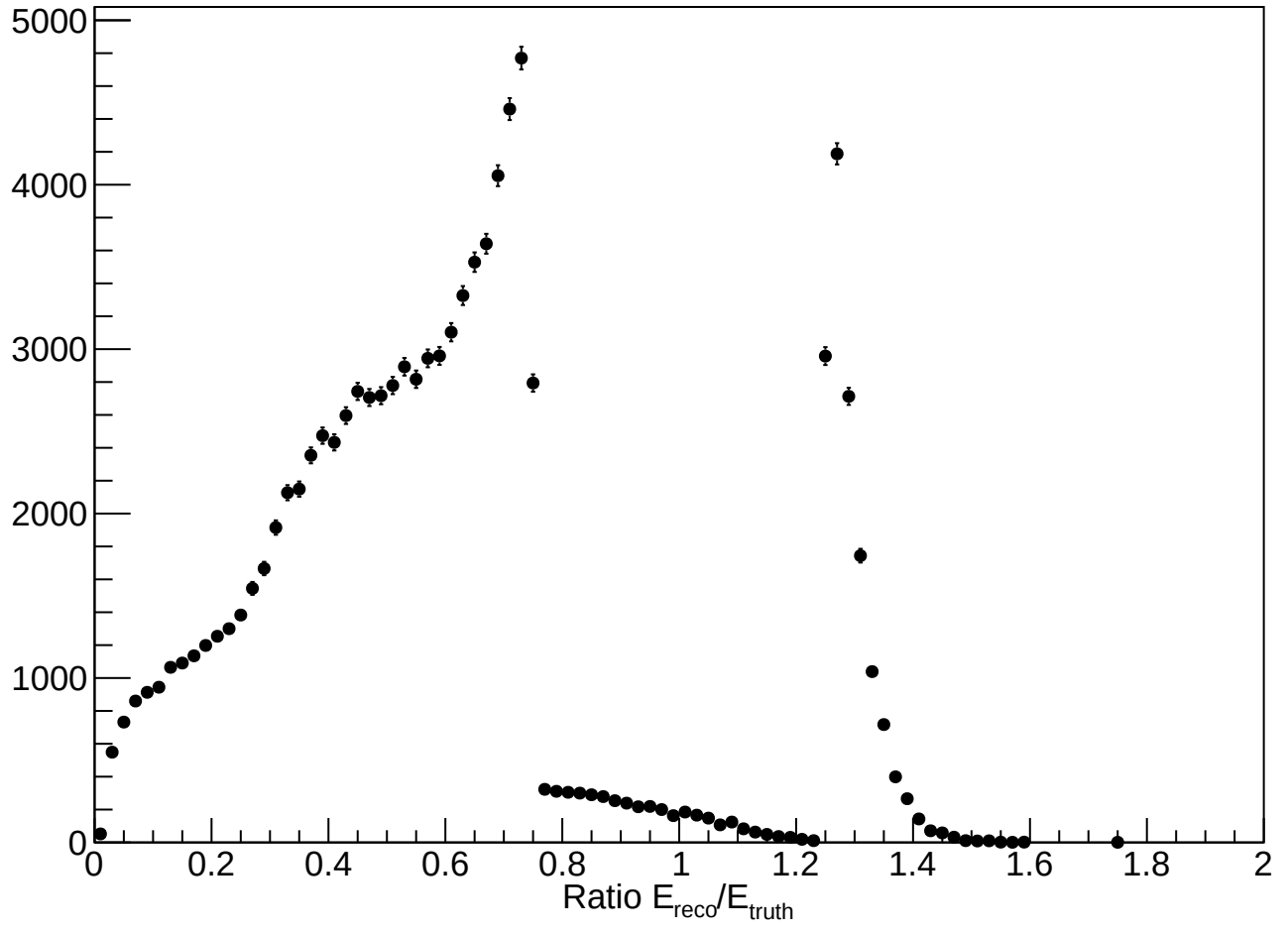

ϕ Resolution
×10^3
μ=-0.00060±0.00001
σ=0.00231±0.00001
140
120
100
80
60
40
20
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

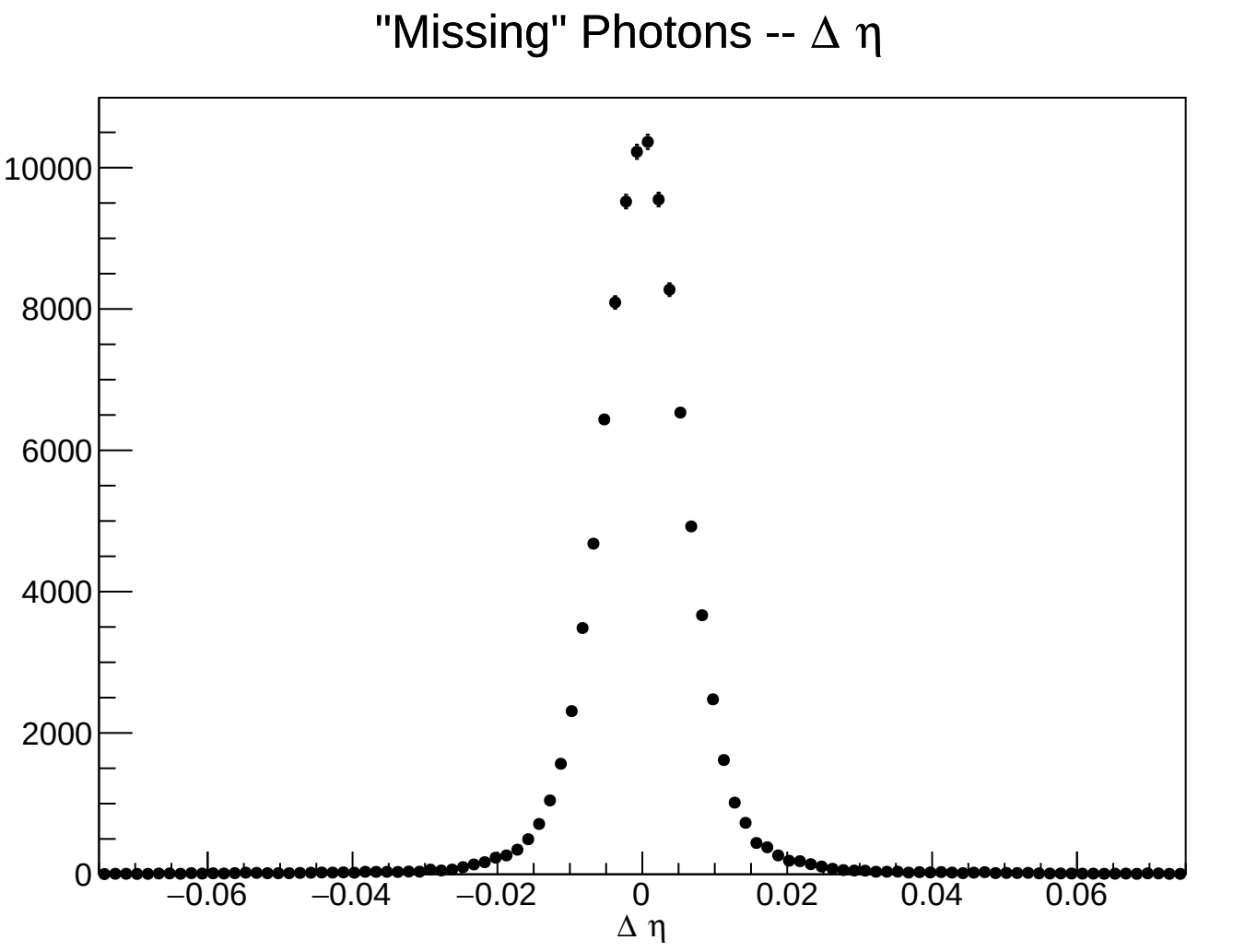

"Missing" Photons -- Number of Clusters (E>300MeV)
49.7%
41.0%
8.9%
Normalized Counts
10^{-1}
10^{-2}
–0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Clusters

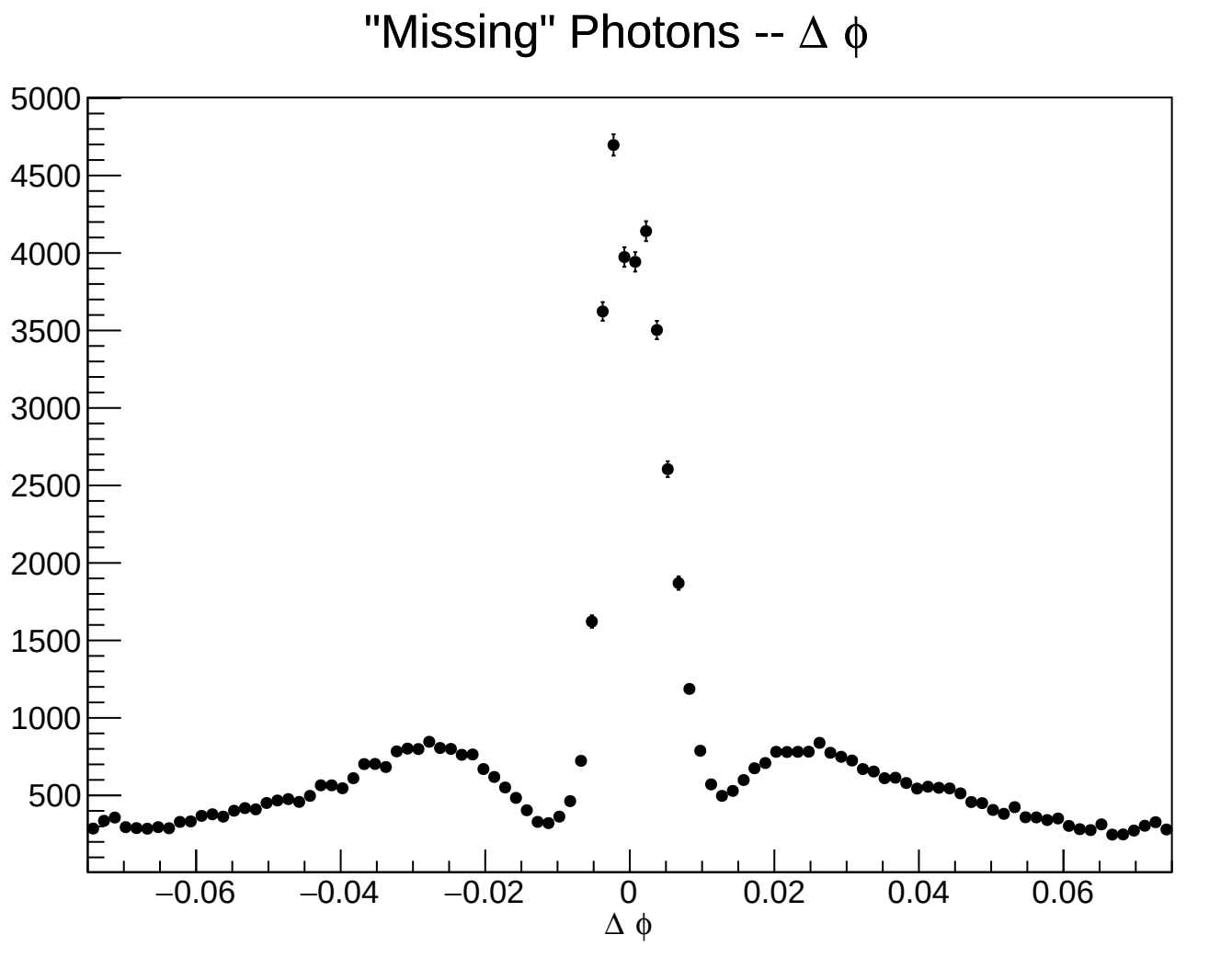

"Missing" Photons -- MC Truth Photon Energy
Counts
1400
1200
1000
800
600
400
2
4
6
8
10
12
14
16
18
20
Eγ (GeV)

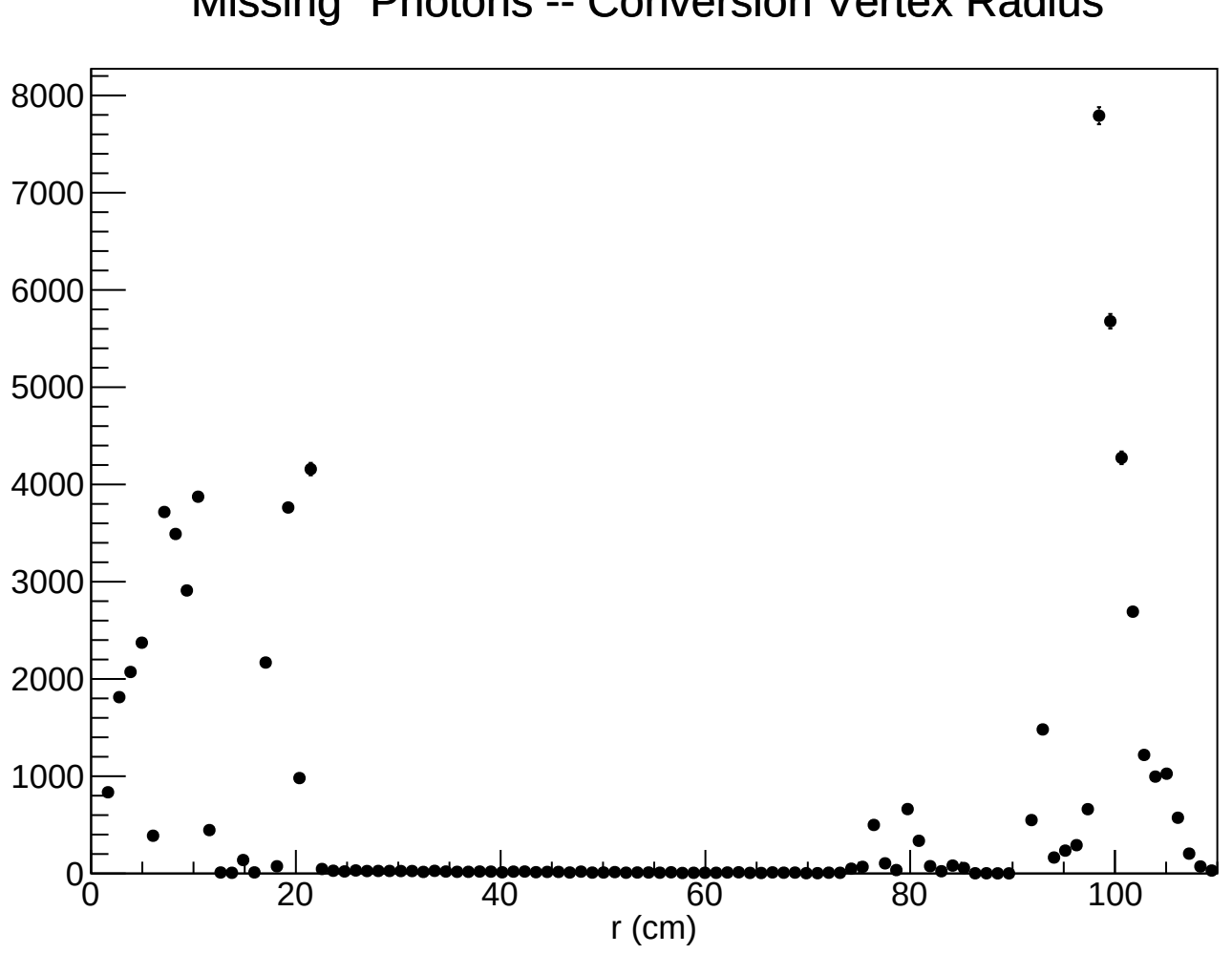

"Missing" Photons -- MC Truth Photon η
Counts
η
0
200
400
600
800
1000
1200
–1
–0.5
0
0.5
1

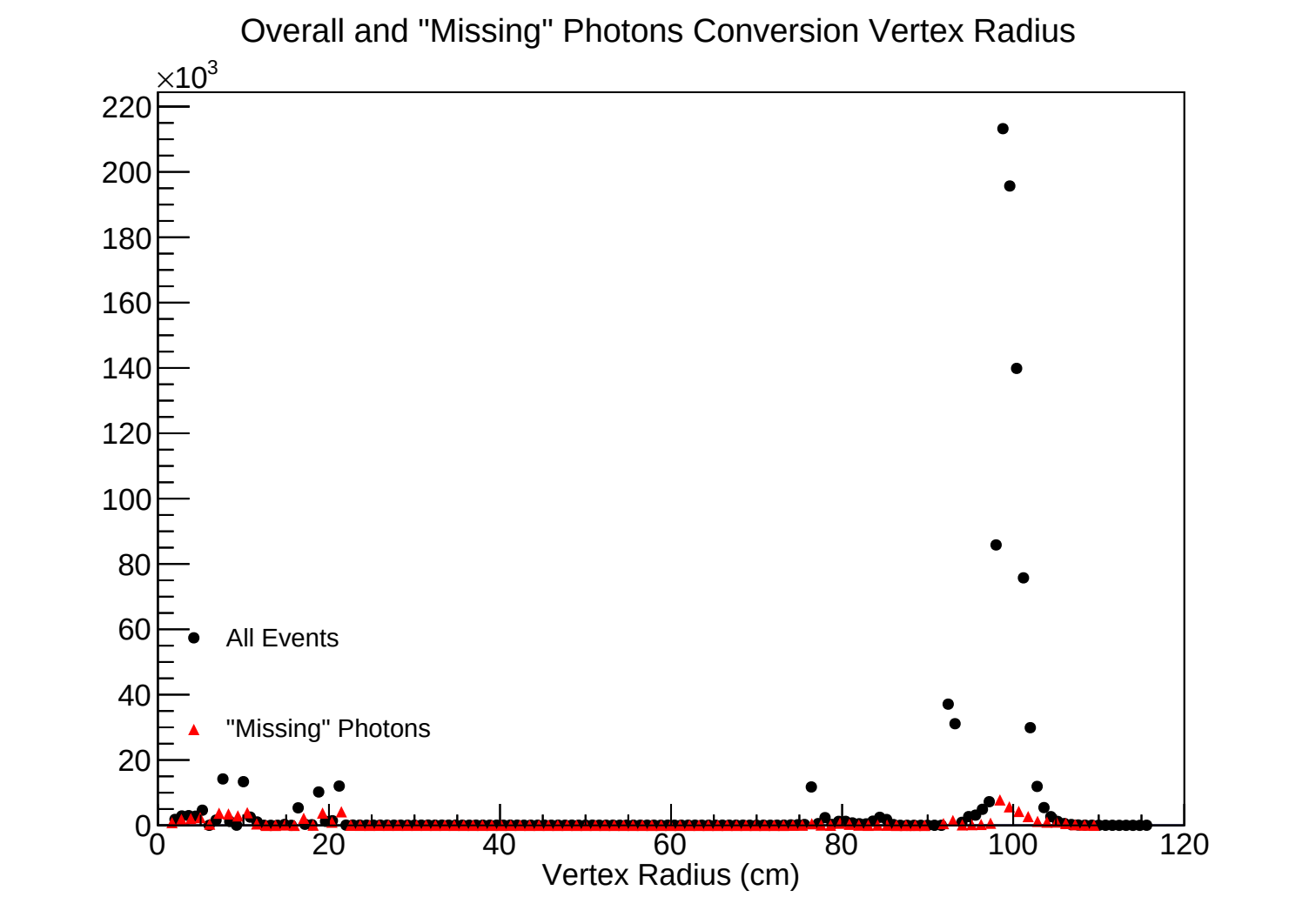

"Missing" Photons -- MC Truth Photon ϕ
Counts
1200
1100
1000
900
800
700
600
500
−3
−2
−1
0
1
2
3
ϕ

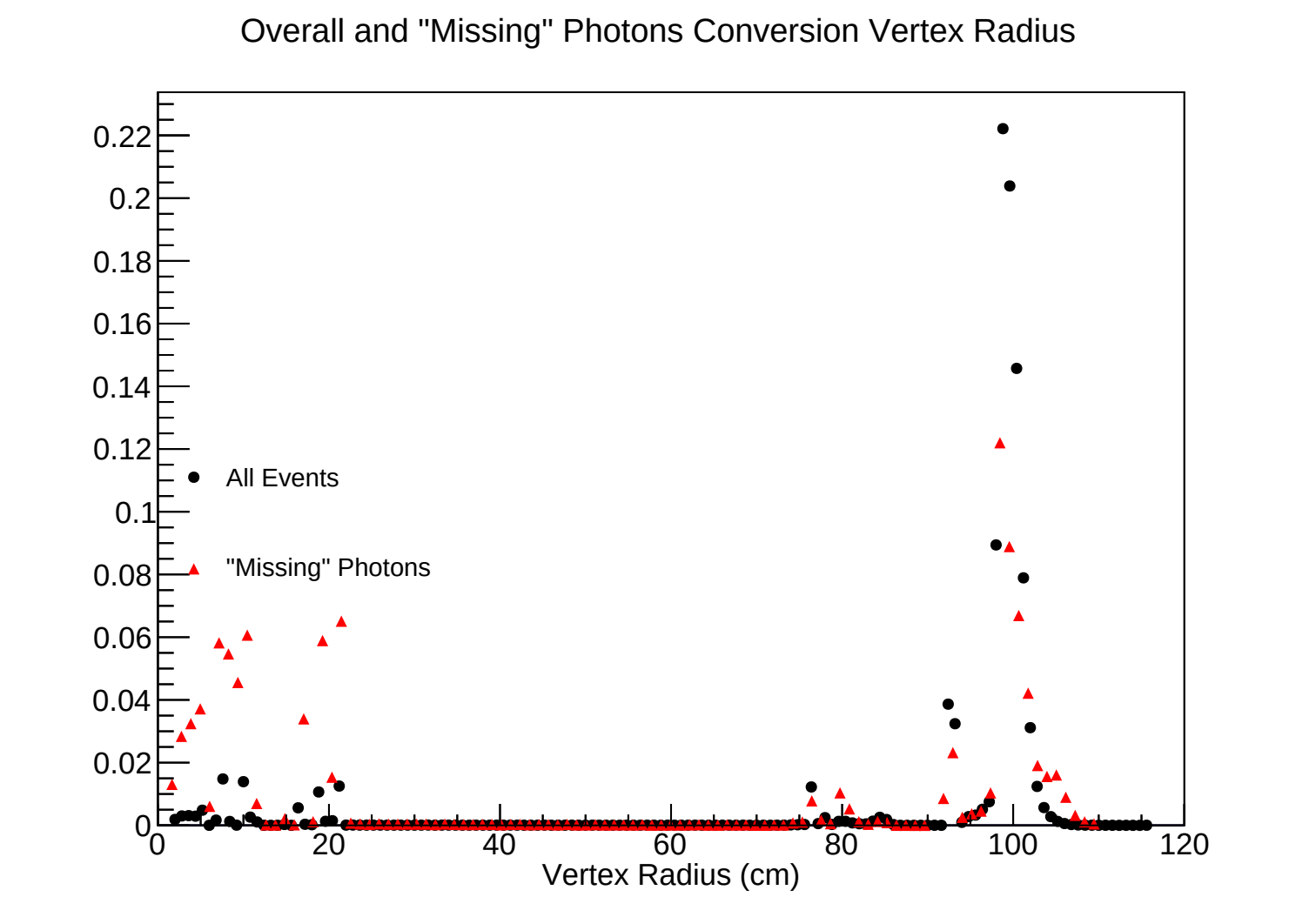

"Missing" Photons -- Energy Response
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio E_reco/E_truth

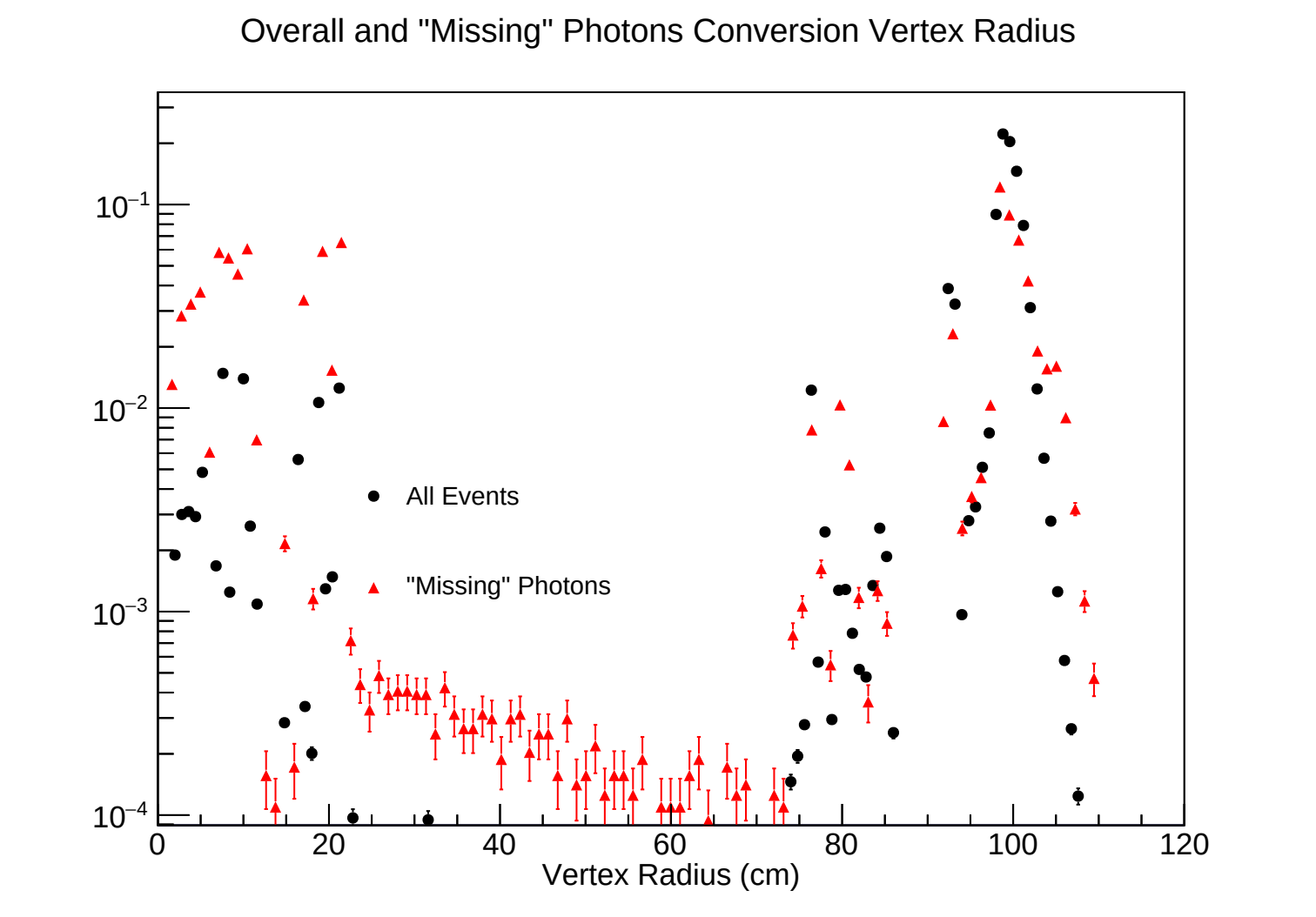

"Missing" Photons -- Δ η
10000
8000
6000
4000
2000
0
−0.06
−0.04
−0.02
0
0.02
0.04
0.06
Δ η

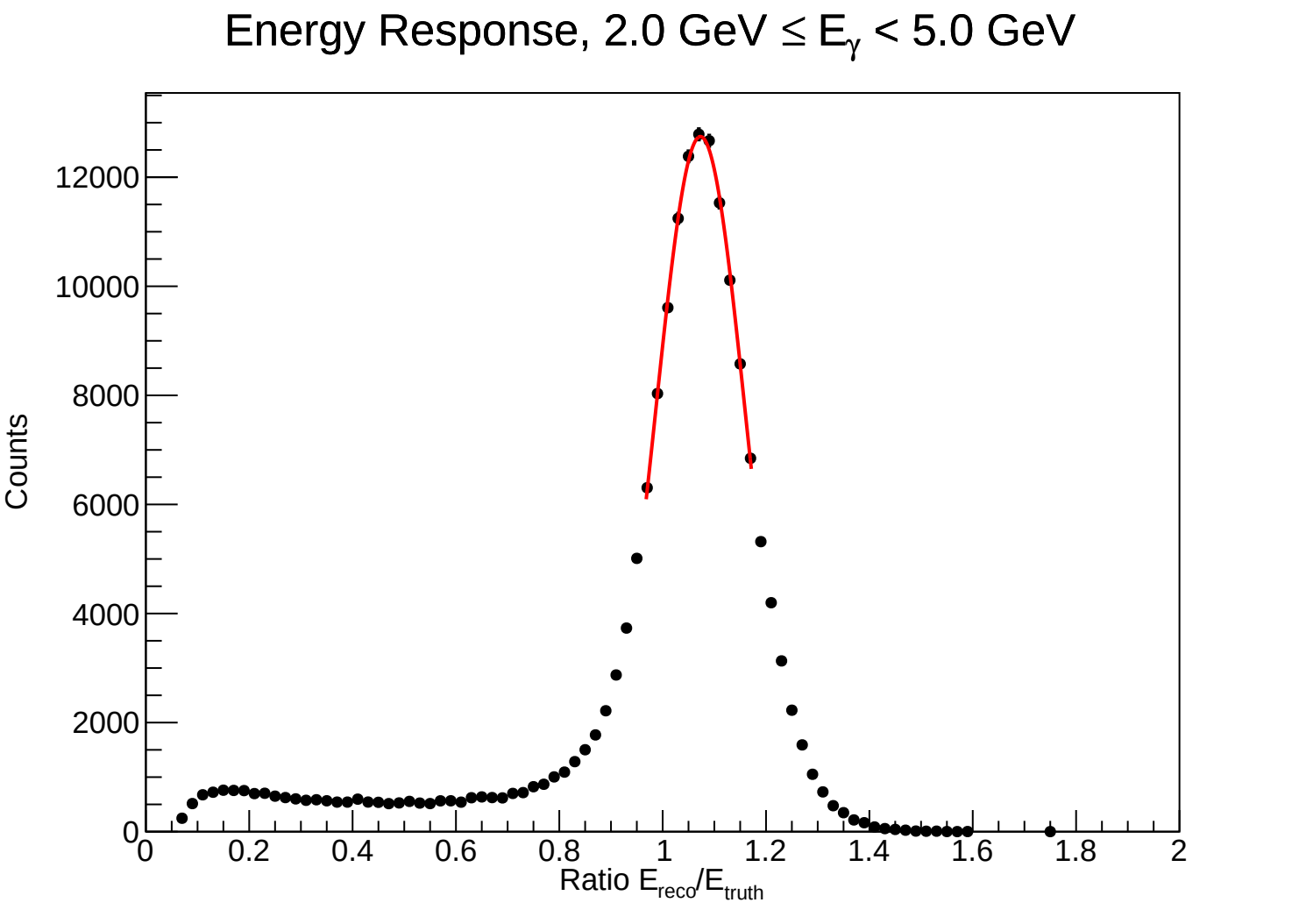

"Missing" Photons -- Δ ϕ
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
–0.06
–0.04
–0.02
0
0.02
0.04
0.06
Δ ϕ

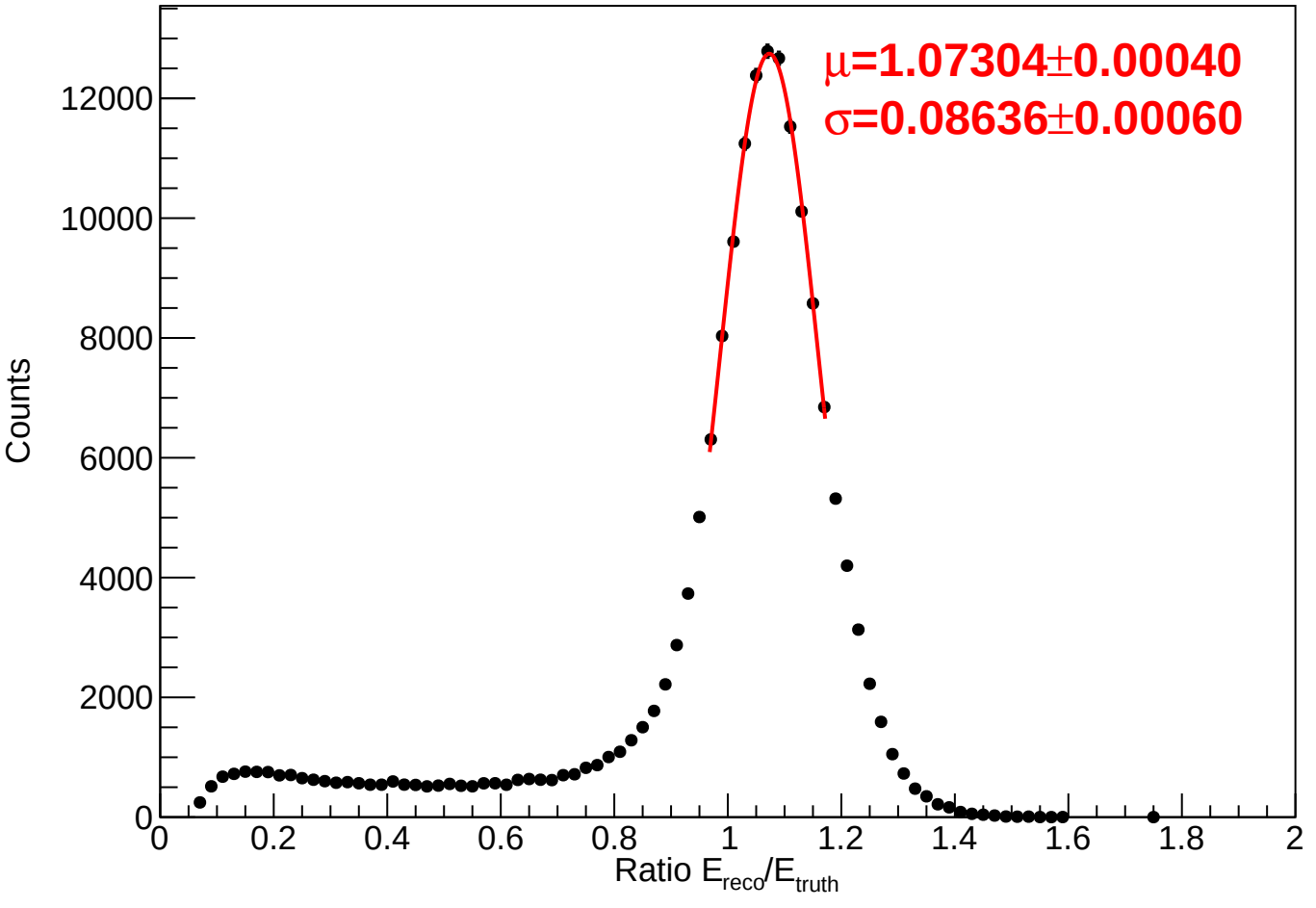

"Missing" Photons -- Conversion Vertex Radius
8000
7000
6000
5000
4000
3000
2000
1000
0
0
20
40
60
80
100
r (cm)

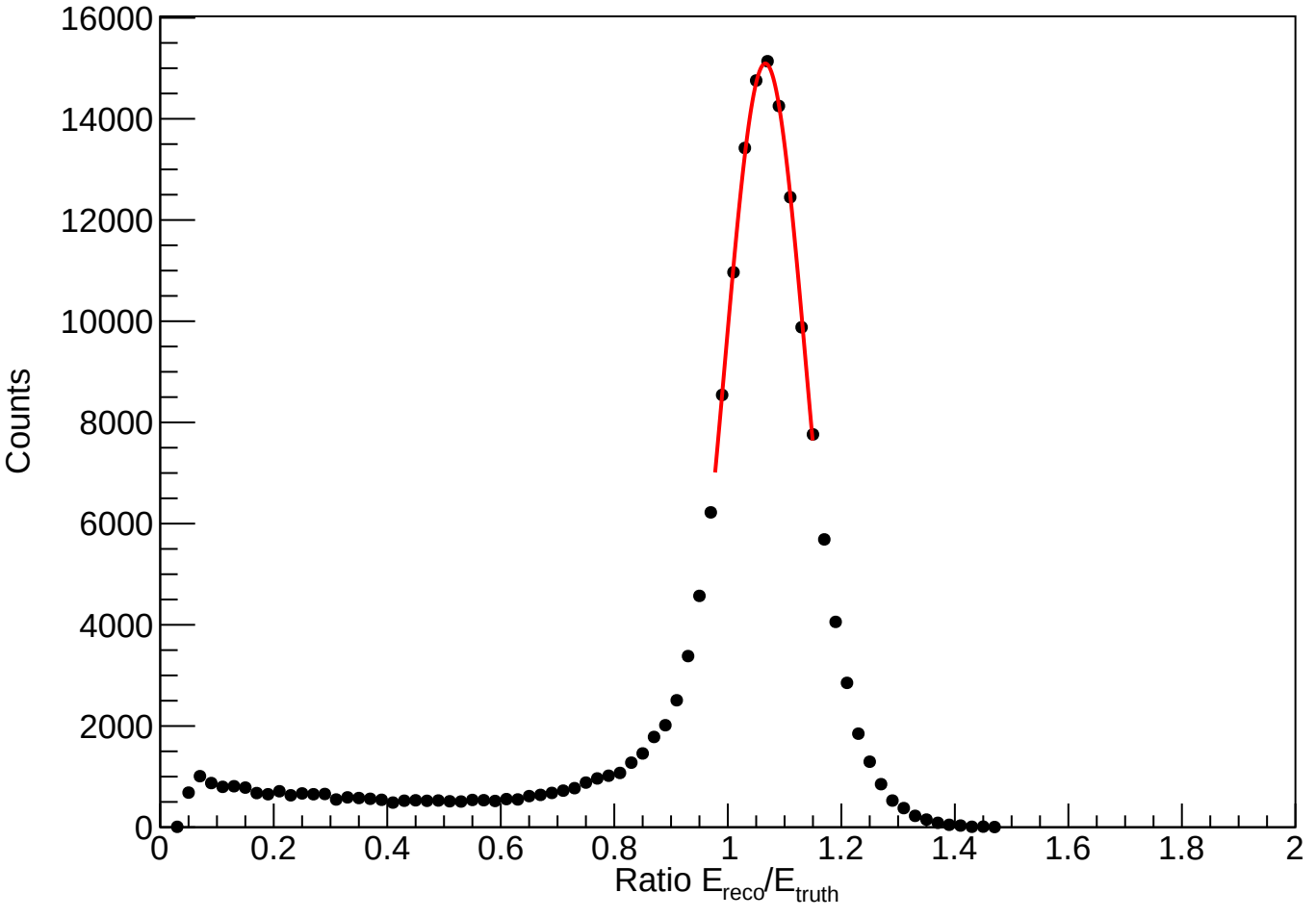

Overall and "Missing" Photons Conversion Vertex Radius
×10^3
220
200
180
160
140
120
100
80
60
40
20
0
0
20
40
60
80
100
120
Vertex Radius (cm)
All Events
"Missing" Photons

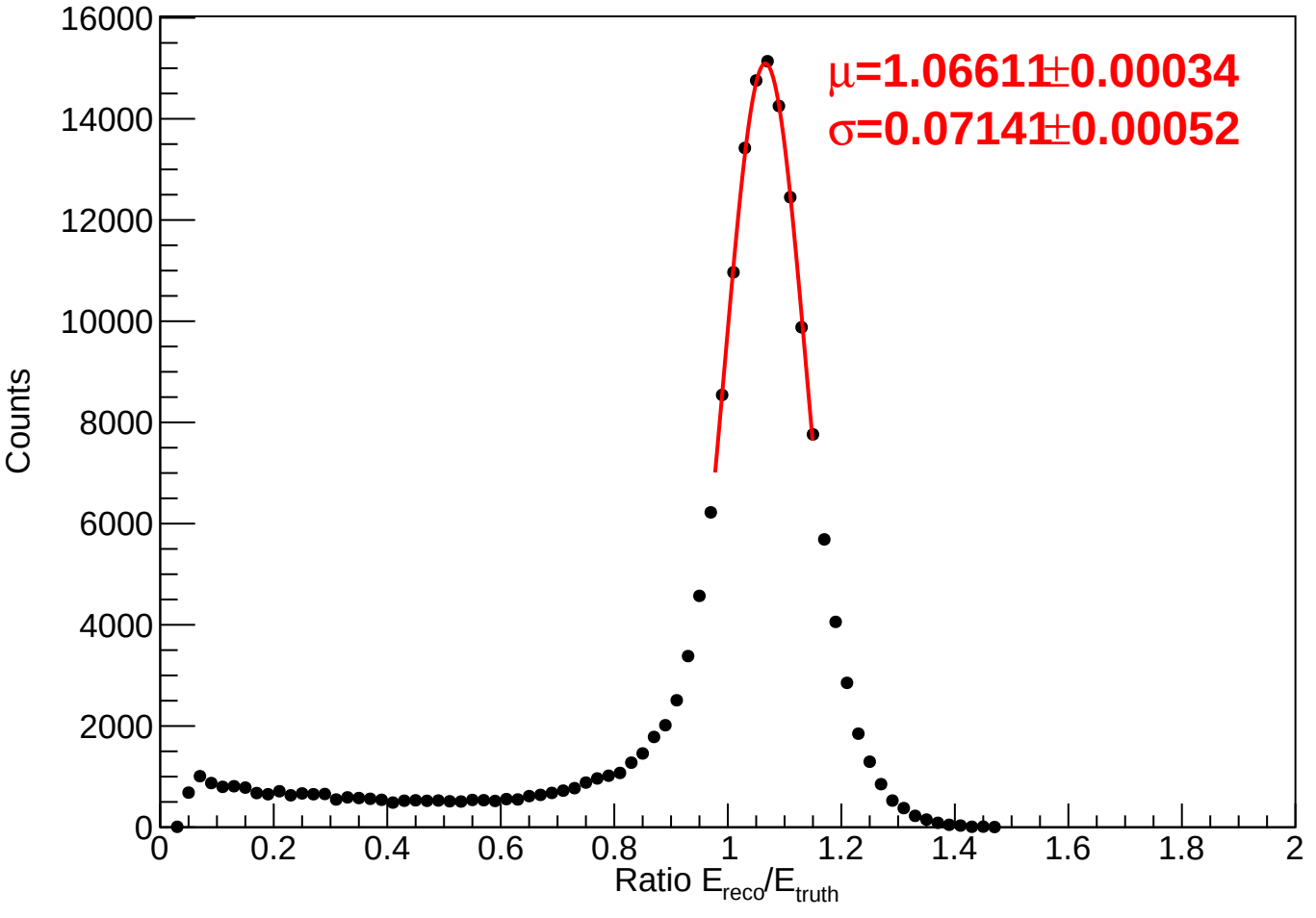

Overall and "Missing" Photons Conversion Vertex Radius
All Events
"Missing" Photons
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
20
40
60
80
100
120
Vertex Radius (cm)

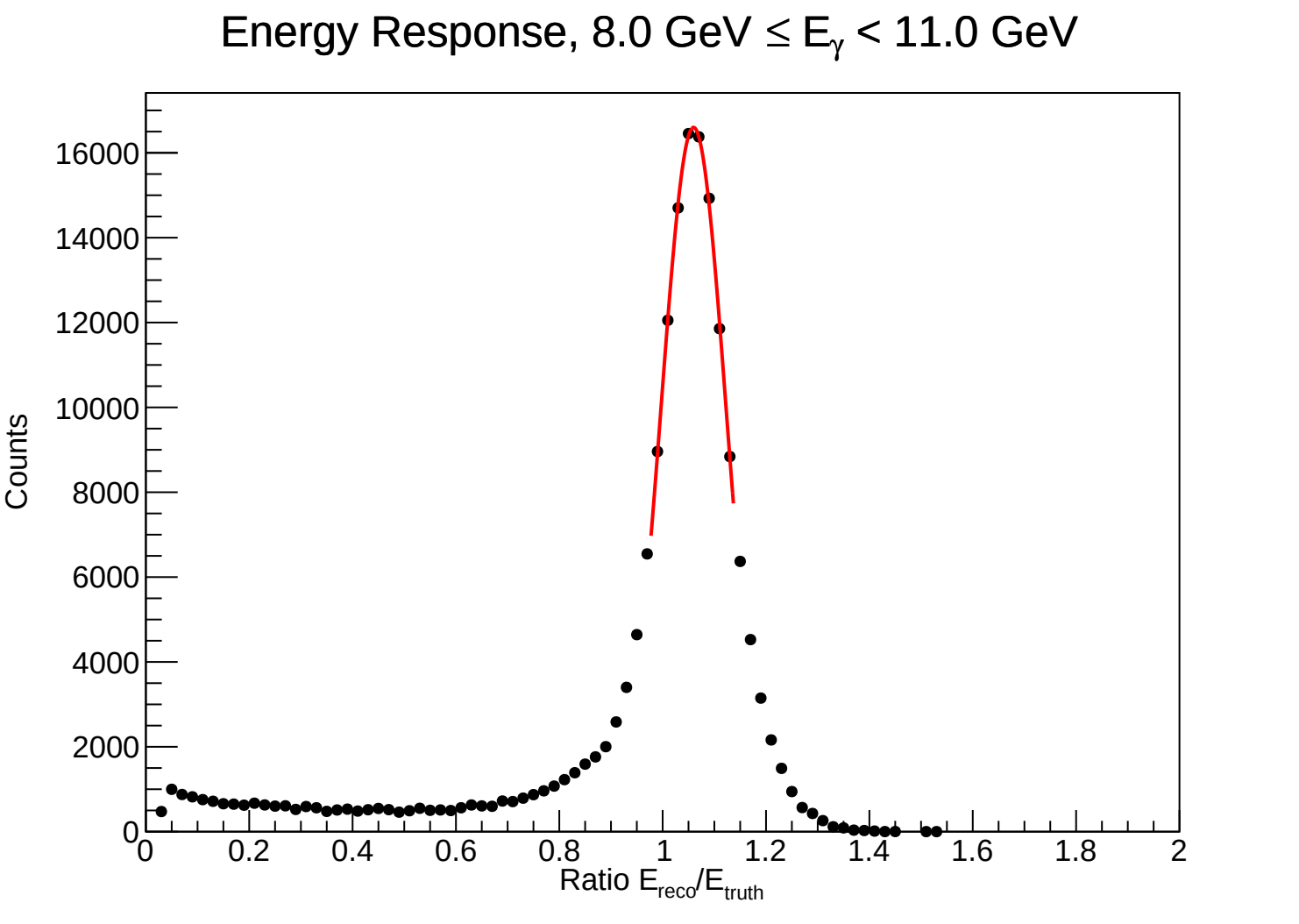

Overall and "Missing" Photons Conversion Vertex Radius
All Events
"Missing" Photons
10^{-1}
10^{-2}
10^{-3}
10^{-4}
0
20
40
60
80
100
120
Vertex Radius (cm)

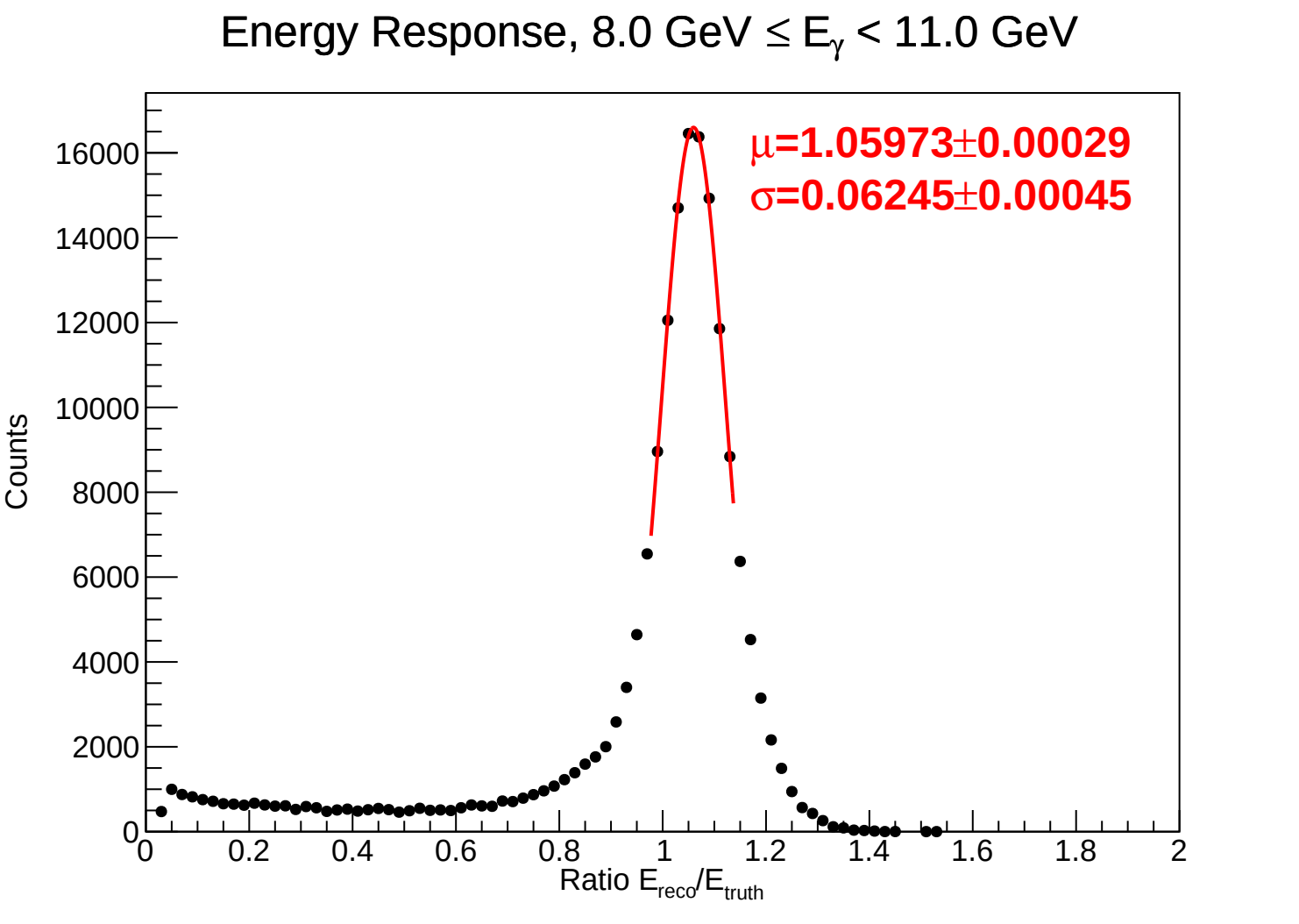

Energy Response, 2.0 GeV ≤ E$_\gamma$ < 5.0 GeV
Counts
0
2000
4000
6000
8000
10000
12000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio E$_{reco}$/E$_{truth}$

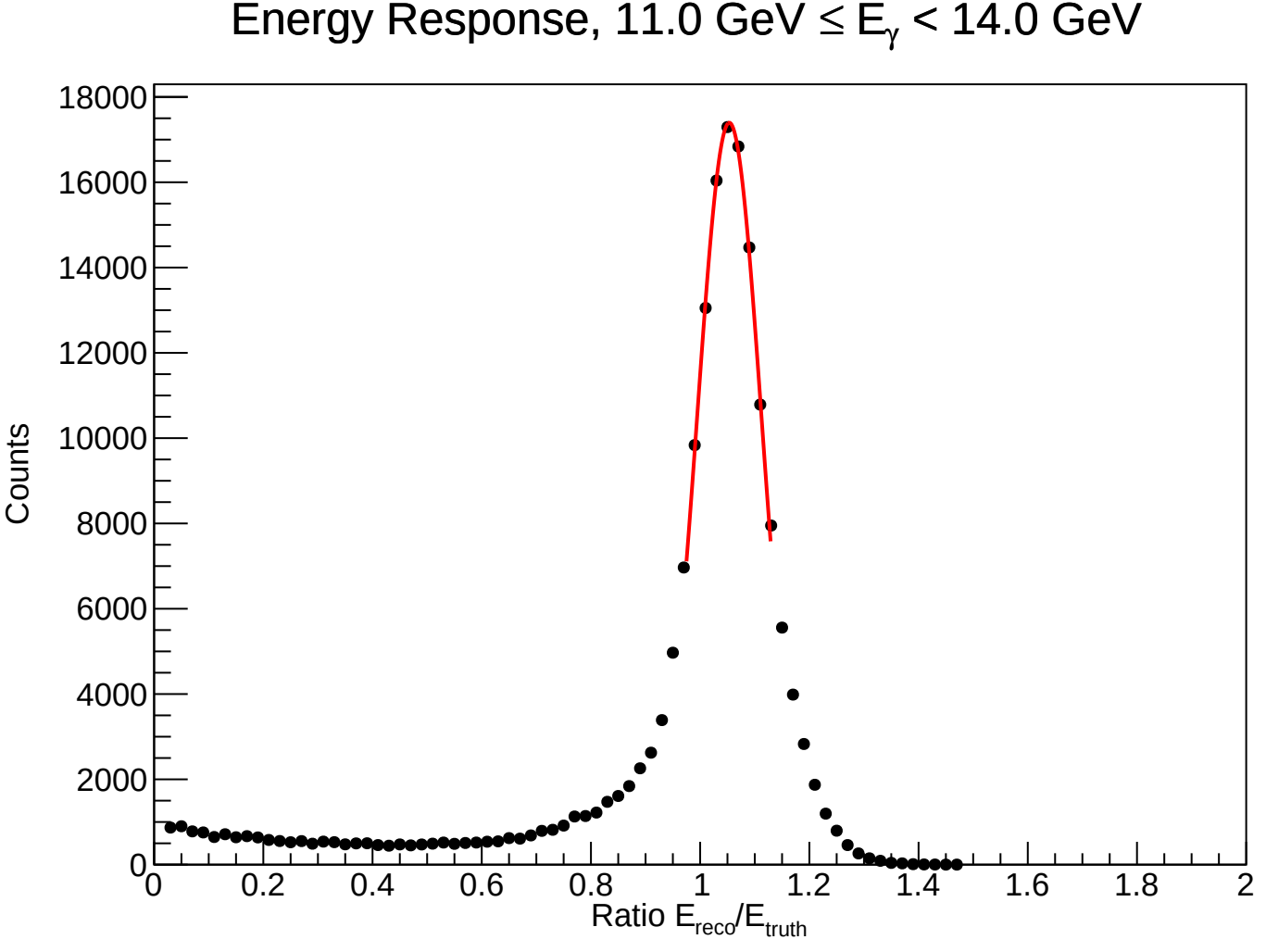

Energy Response, 2.0 GeV ≤ Eγ < 5.0 GeV
μ=1.07304±0.00040
σ=0.08636±0.00060
Counts
Ratio Ereco/Etruth
0
2000
4000
6000
8000
10000
12000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

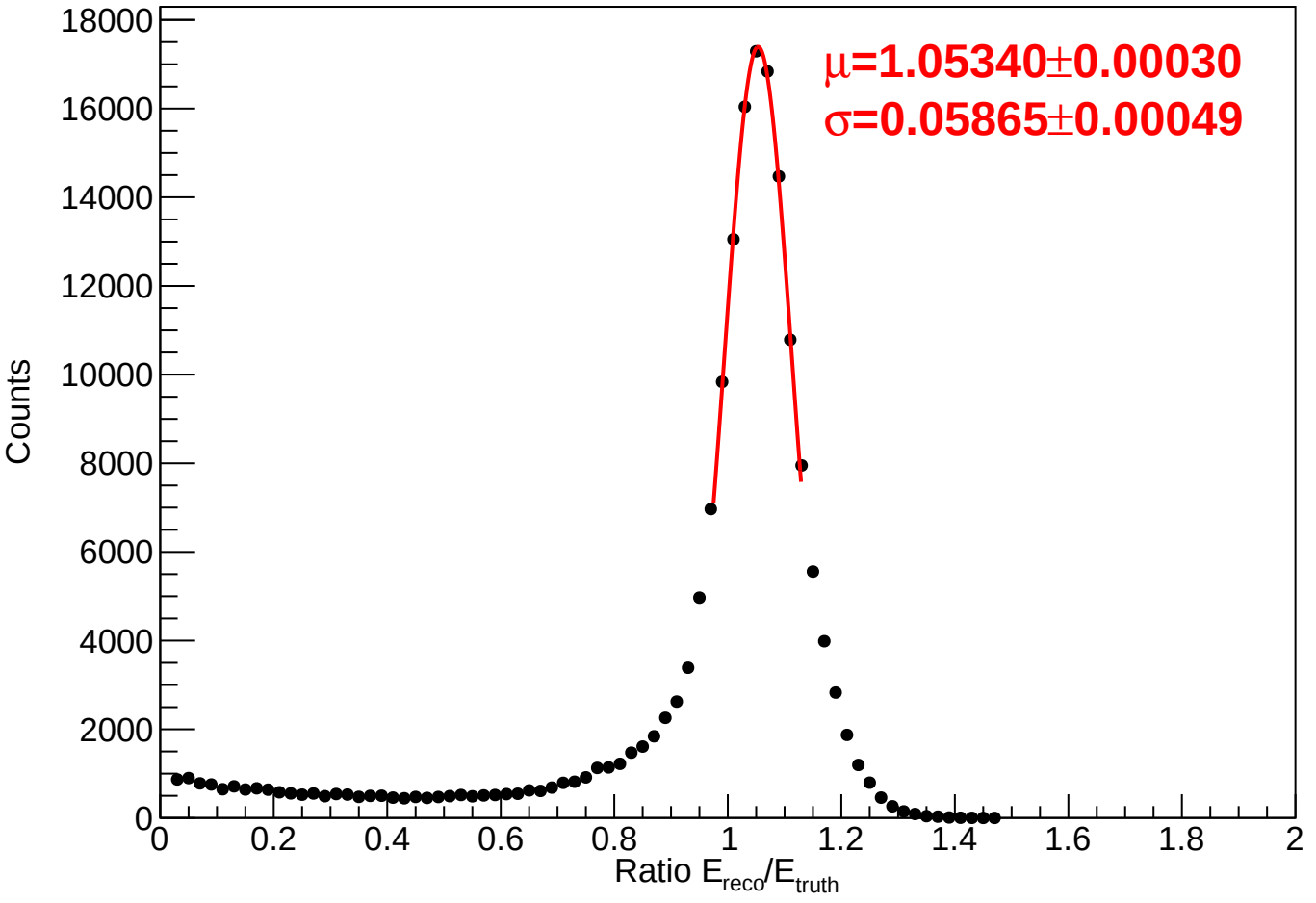

Energy Response, 5.0 GeV ≤ E$_\gamma$ < 8.0 GeV
Counts
Ratio E$_{reco}$/E$_{truth}$
0
2000
4000
6000
8000
10000
12000
14000
16000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

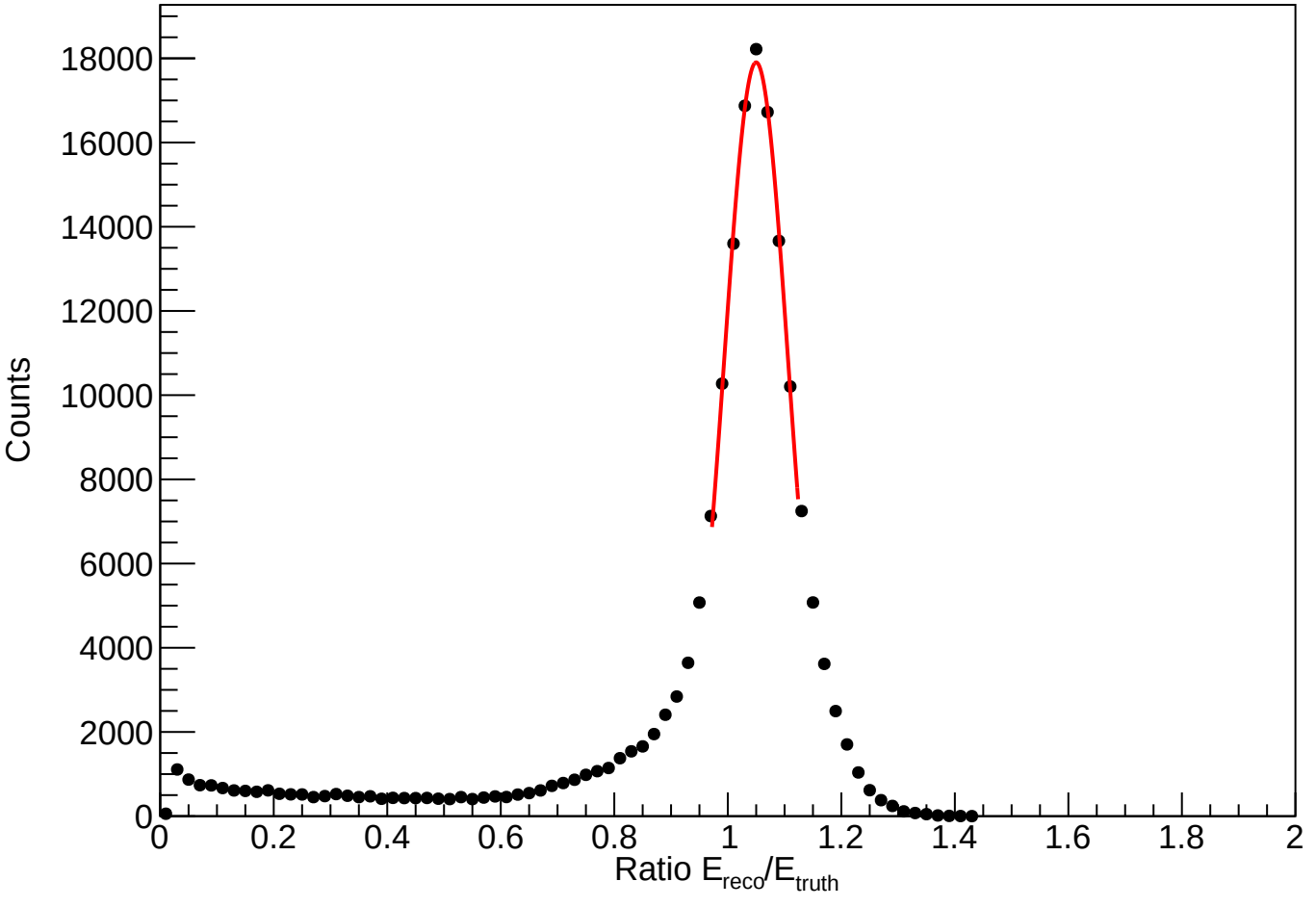

Energy Response, 5.0 GeV ≤ Eγ < 8.0 GeV
μ=1.06611±0.00034
σ=0.07141±0.00052
Counts
Ratio Ereco/Etruth
0
2000
4000
6000
8000
10000
12000
14000
16000
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

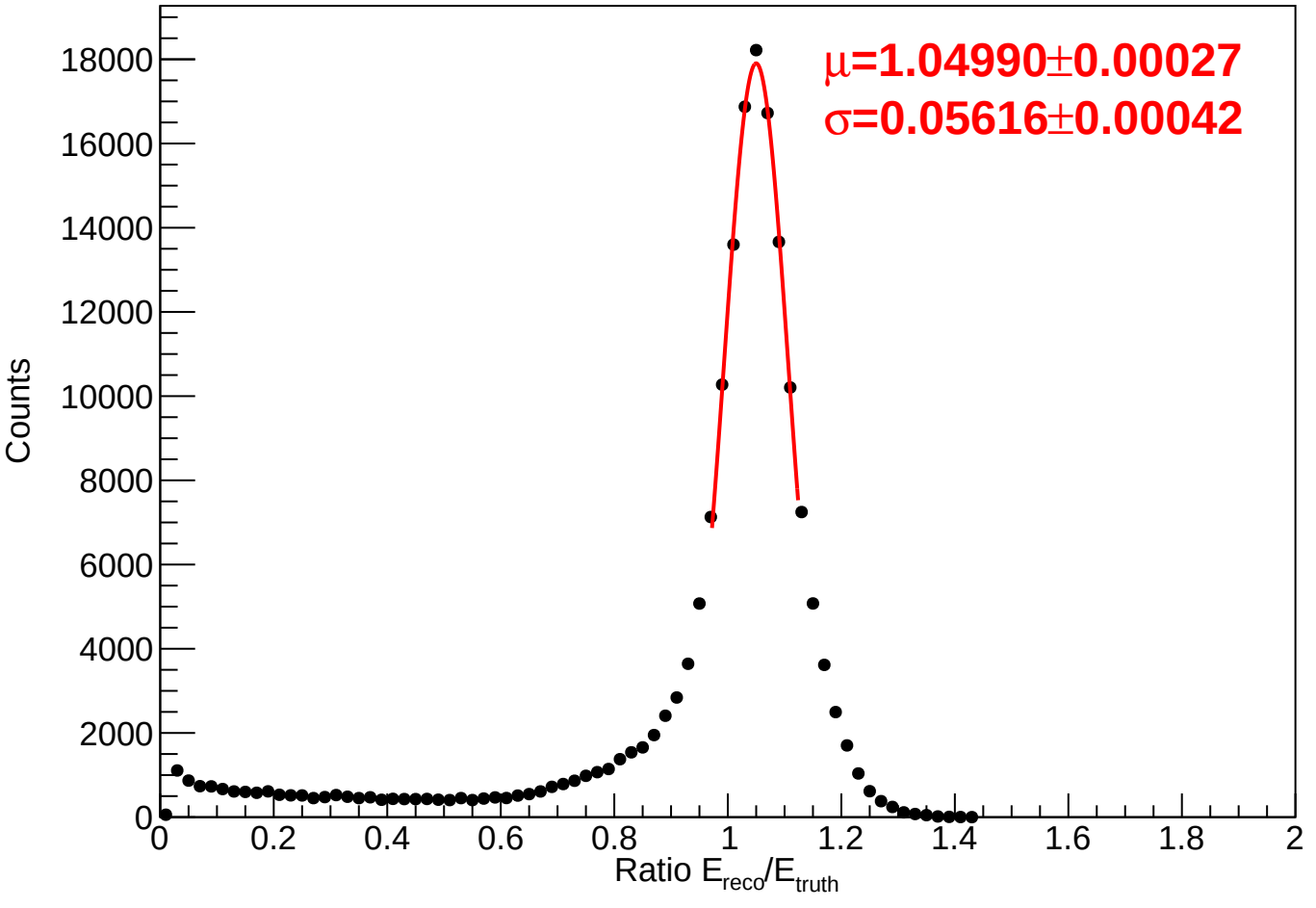

Energy Response, 8.0 GeV ≤ E$_\gamma$ < 11.0 GeV
Counts
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio E$_{reco}$/E$_{truth}$

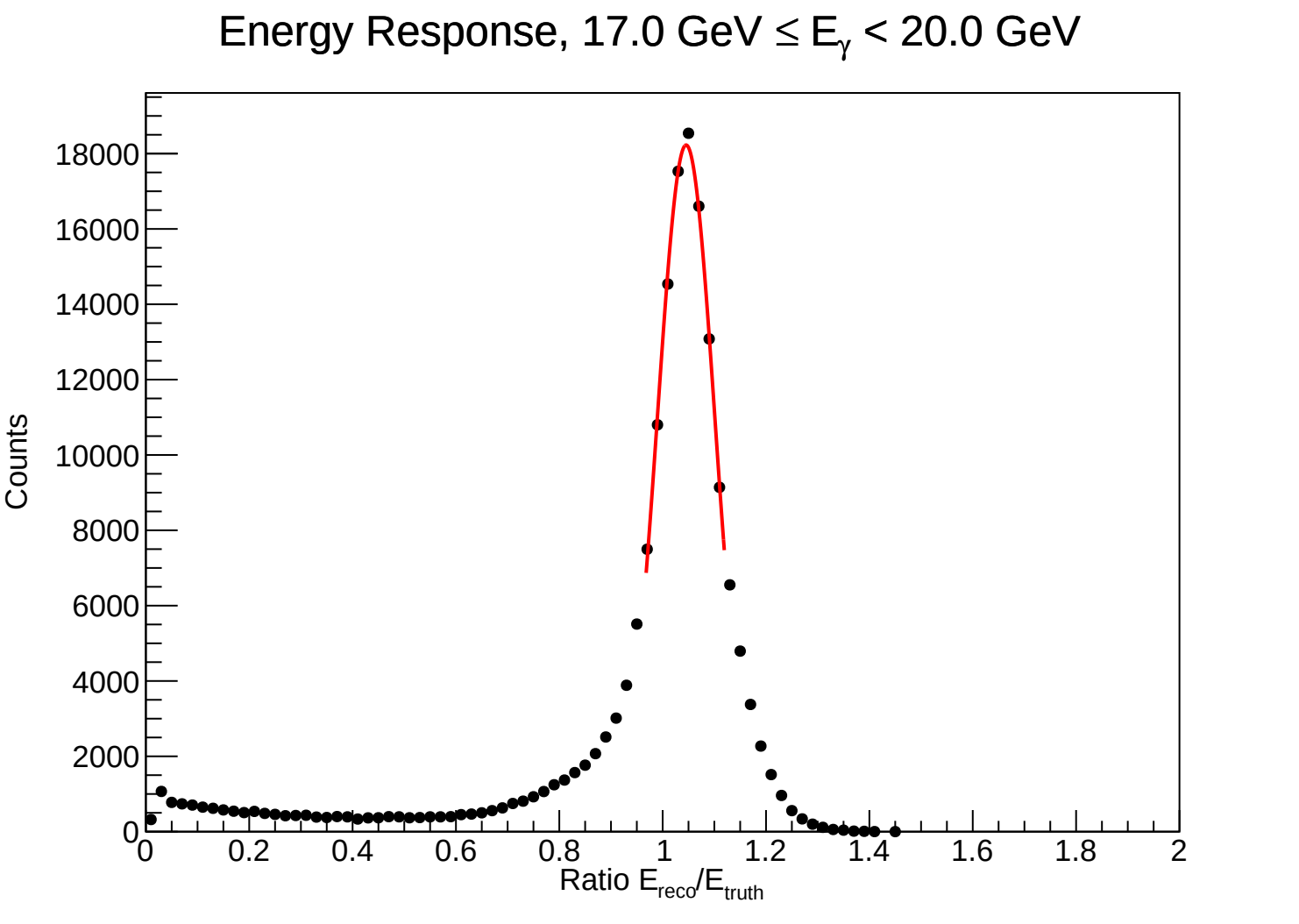

Energy Response, 8.0 GeV ≤ E$_\gamma$ < 11.0 GeV
μ=1.05973±0.00029
σ=0.06245±0.00045
Counts
Ratio E$_{reco}$/E$_{truth}$
0
2000
4000
6000
8000
10000
12000
14000
16000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

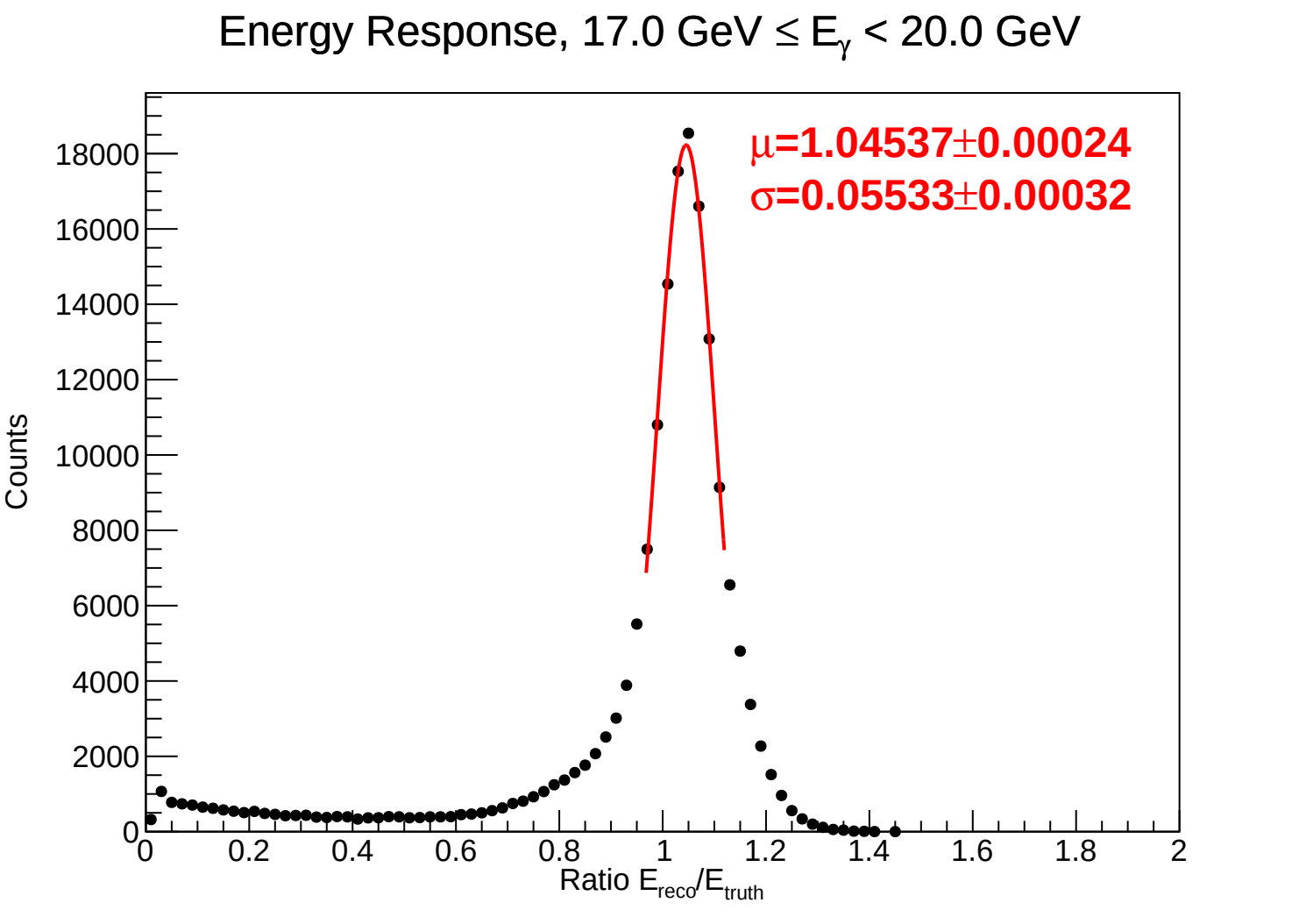

Energy Response, 11.0 GeV ≤ E$_\gamma$ < 14.0 GeV
Counts
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio E$_{reco}$/E$_{truth}$

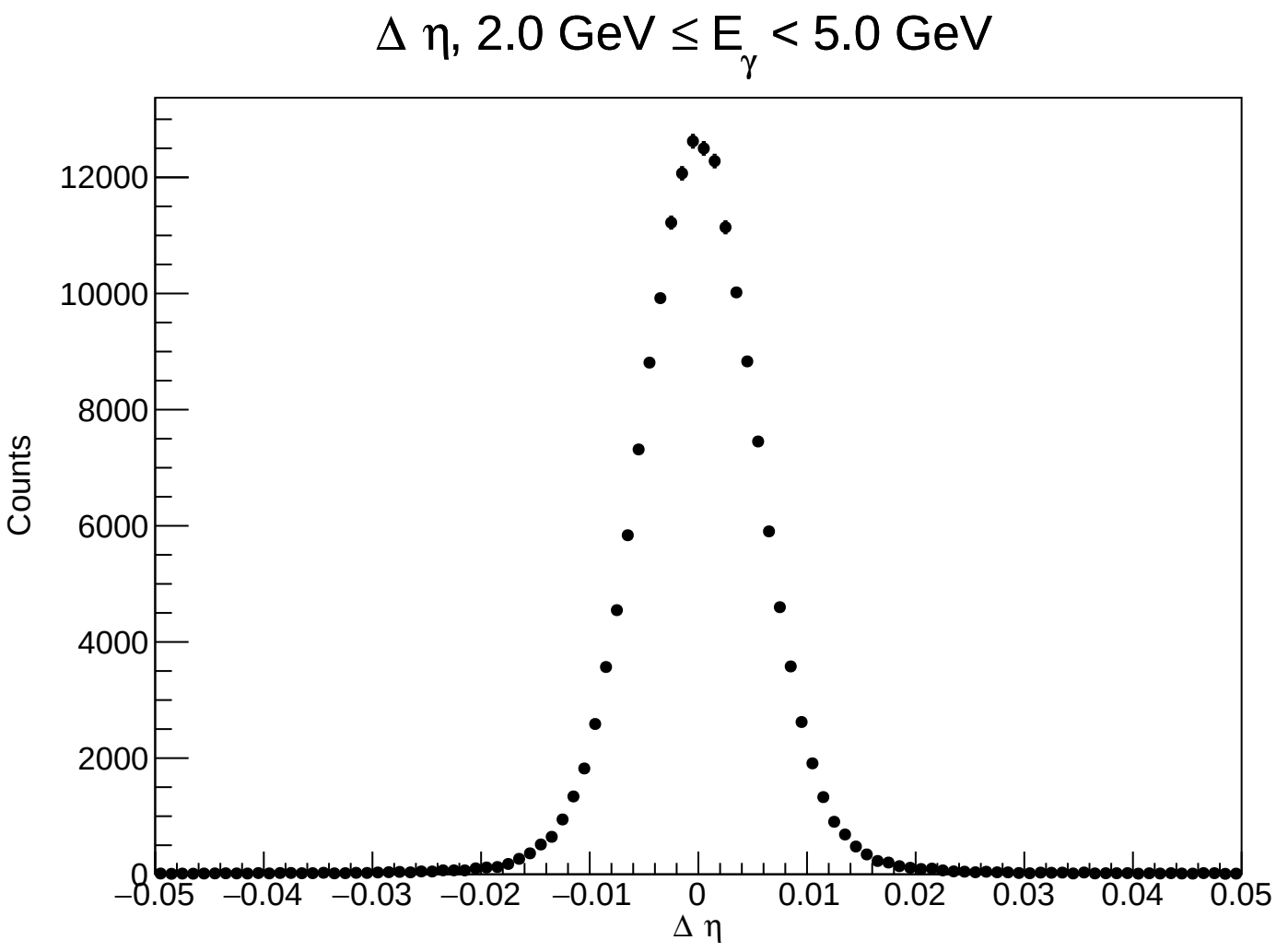

Energy Response, 11.0 GeV ≤ E$_\gamma$ < 14.0 GeV
μ=1.05340±0.00030
σ=0.05865±0.00049
Counts
Ratio E$_{reco}$/E$_{truth}$
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

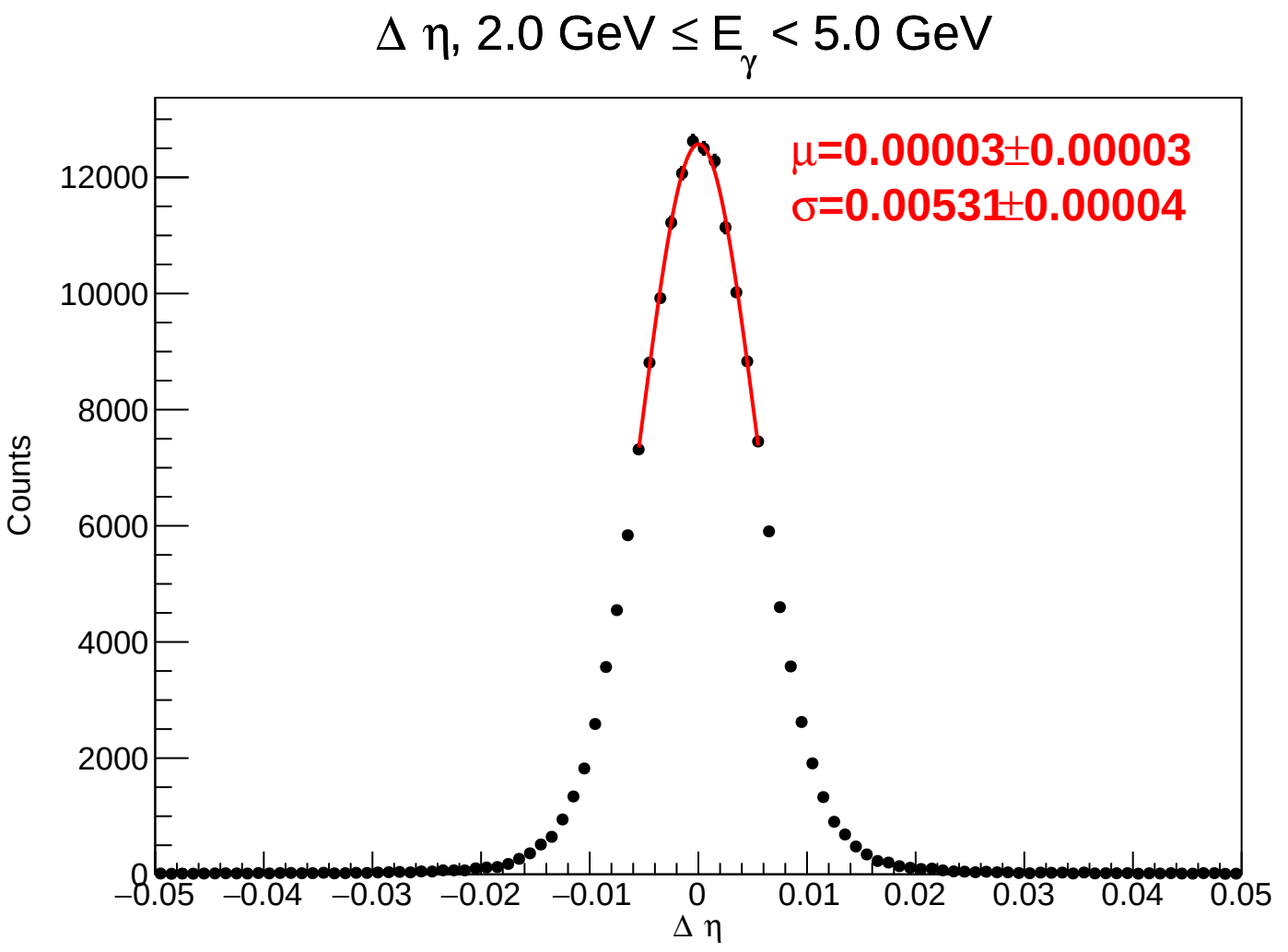

Energy Response, 14.0 GeV ≤ E$_\gamma$ < 17.0 GeV
Counts
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio E$_{reco}$/E$_{truth}$

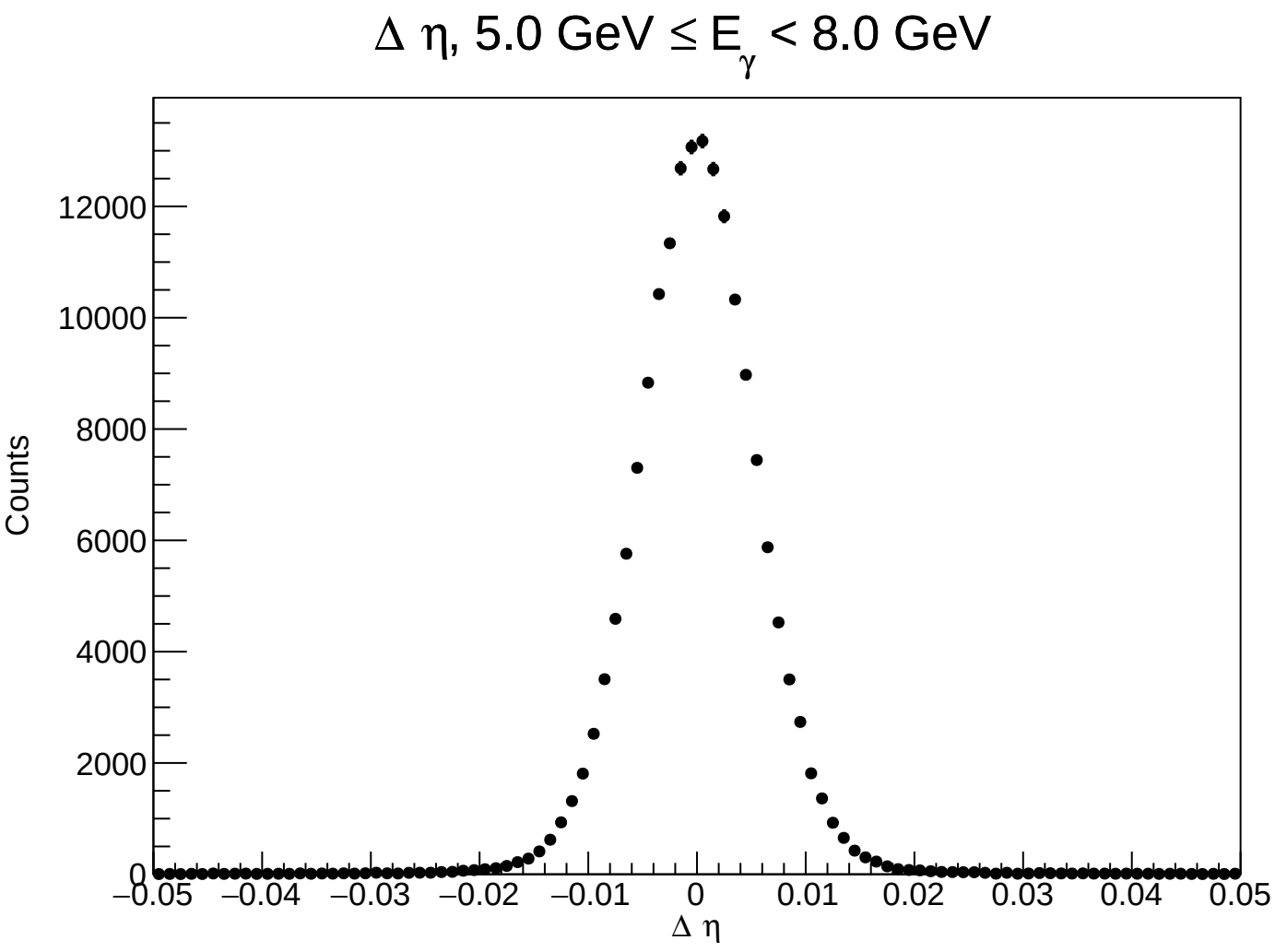

Energy Response, 14.0 GeV ≤ Eγ < 17.0 GeV
μ=1.04990±0.00027
σ=0.05616±0.00042
Counts
Ratio Ereco/Etruth
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

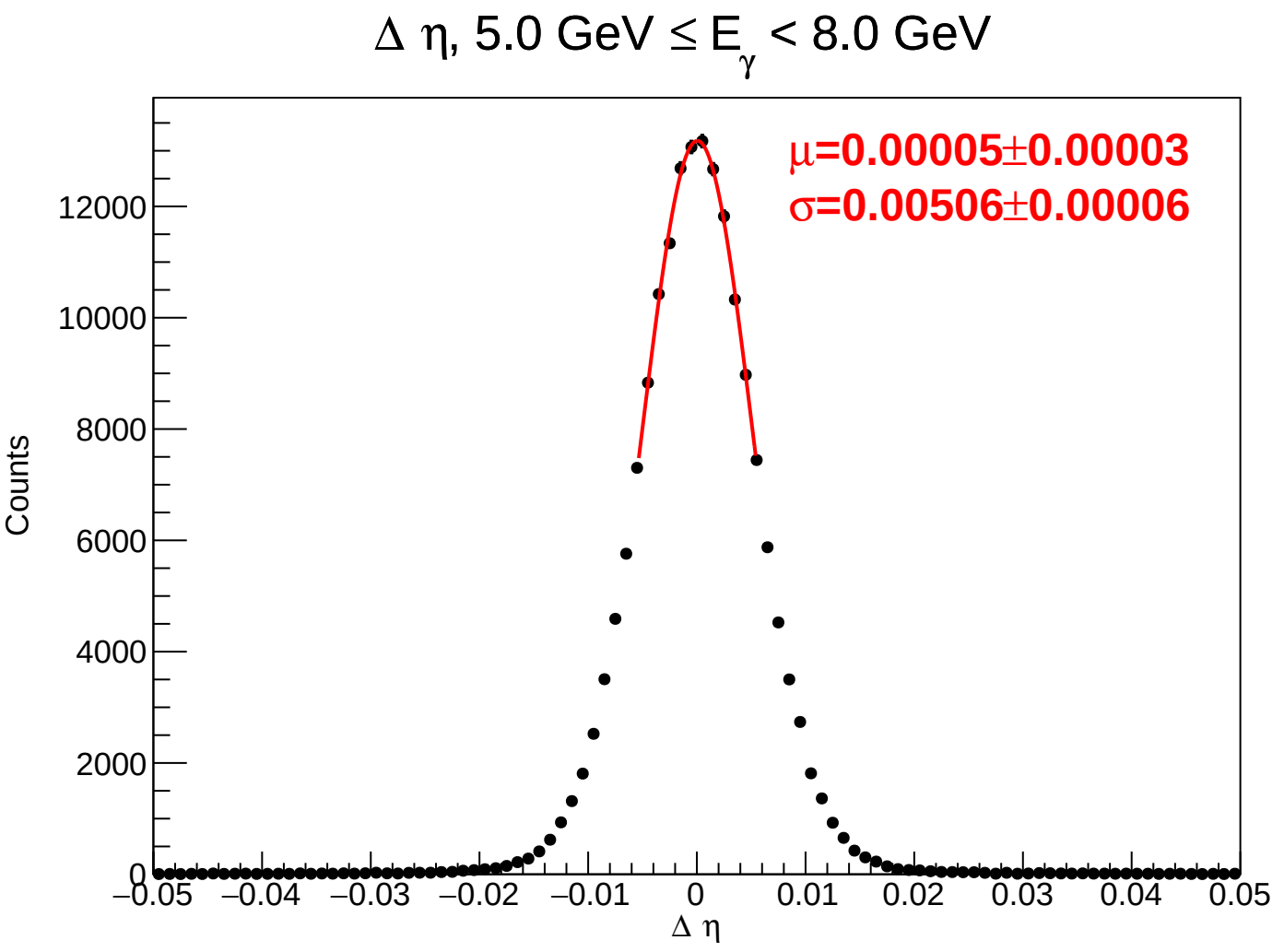

Energy Response, 17.0 GeV ≤ E$_\gamma$ < 20.0 GeV
Counts
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio E$_{reco}$/E$_{truth}$

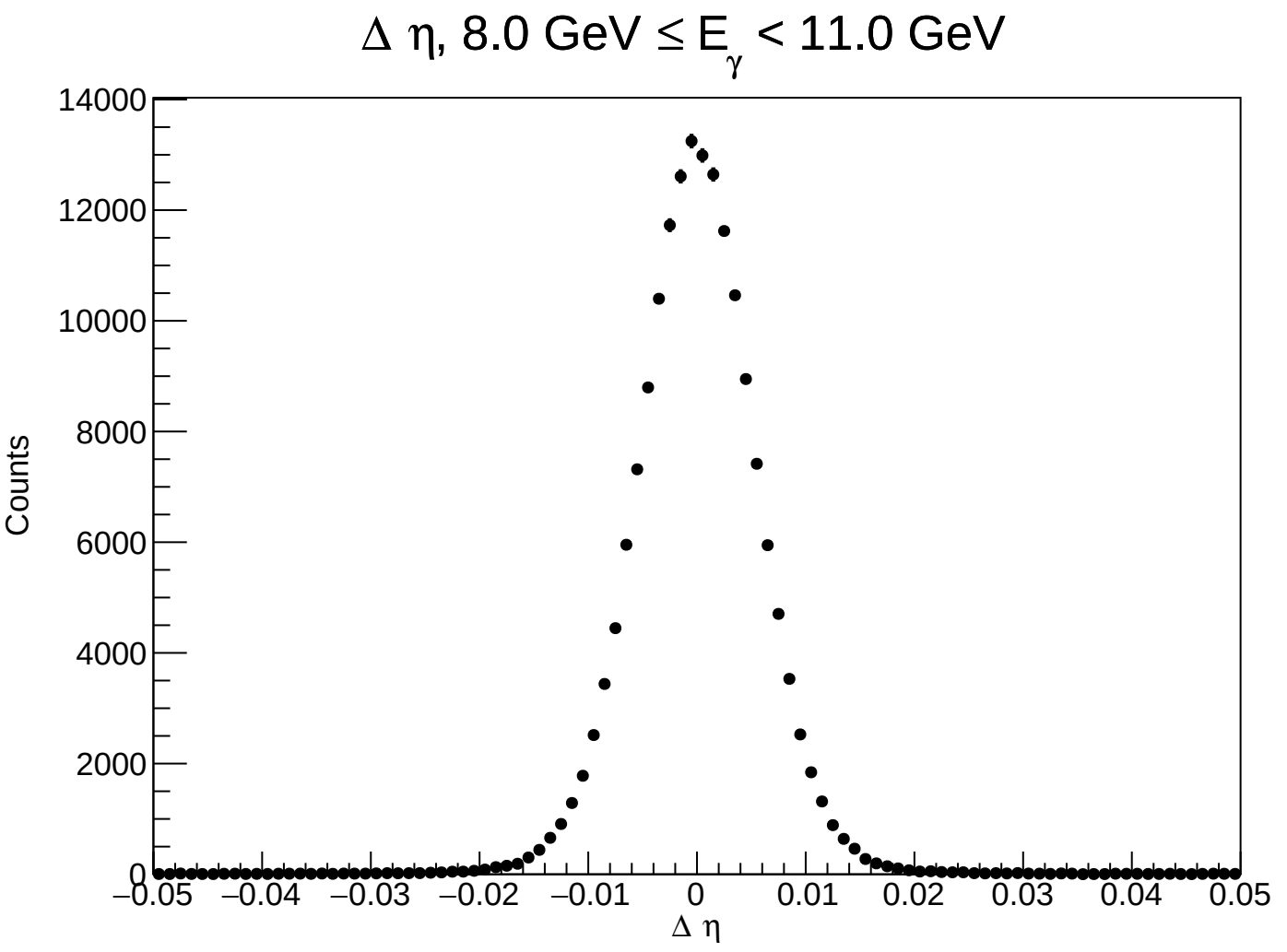

Energy Response, 17.0 GeV ≤ E$_\gamma$ < 20.0 GeV
μ=1.04537±0.00024
σ=0.05533±0.00032
Counts
Ratio E$_{reco}$/E$_{truth}$
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

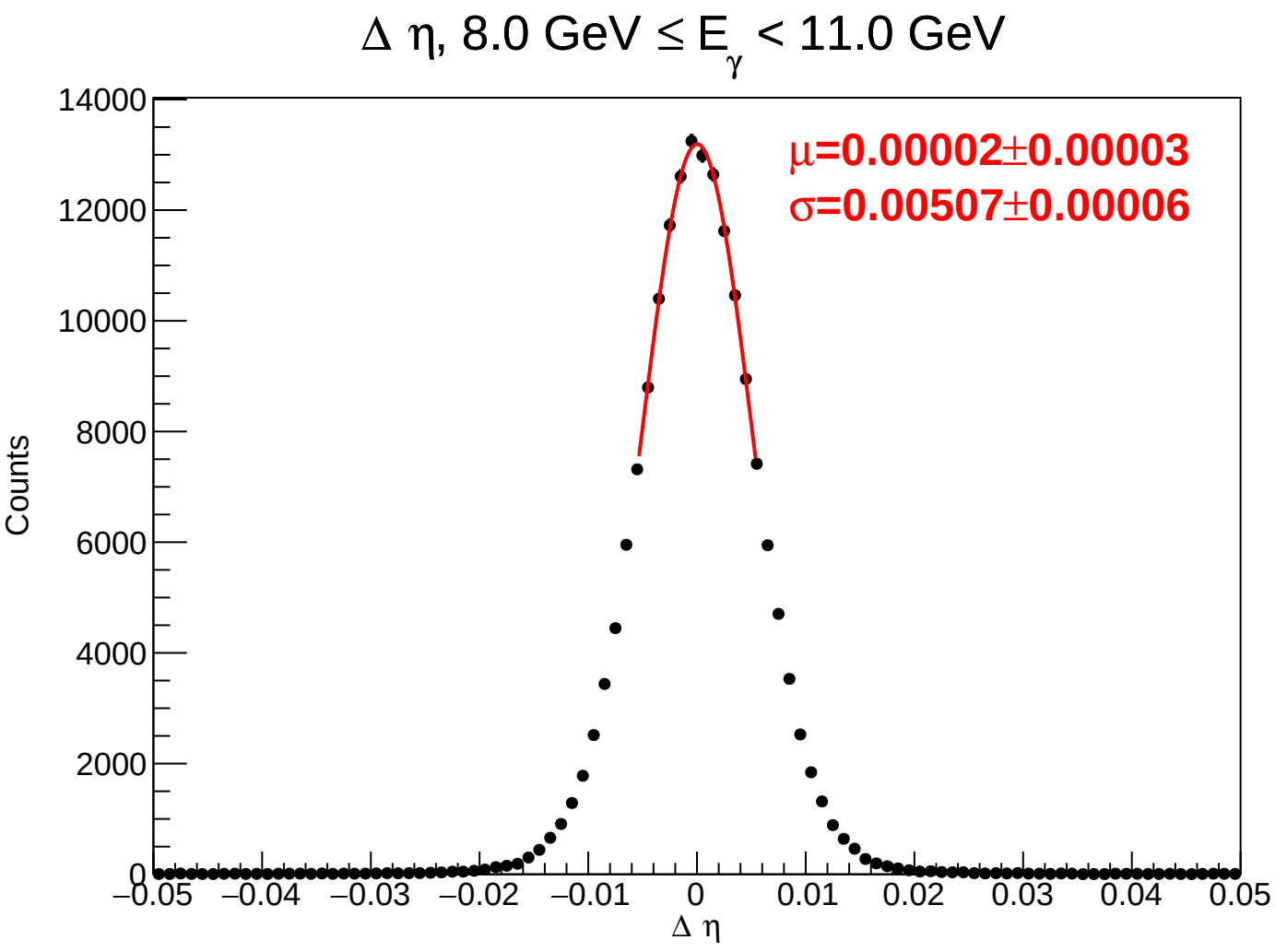

Δ η, 2.0 GeV ≤ E_γ < 5.0 GeV
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

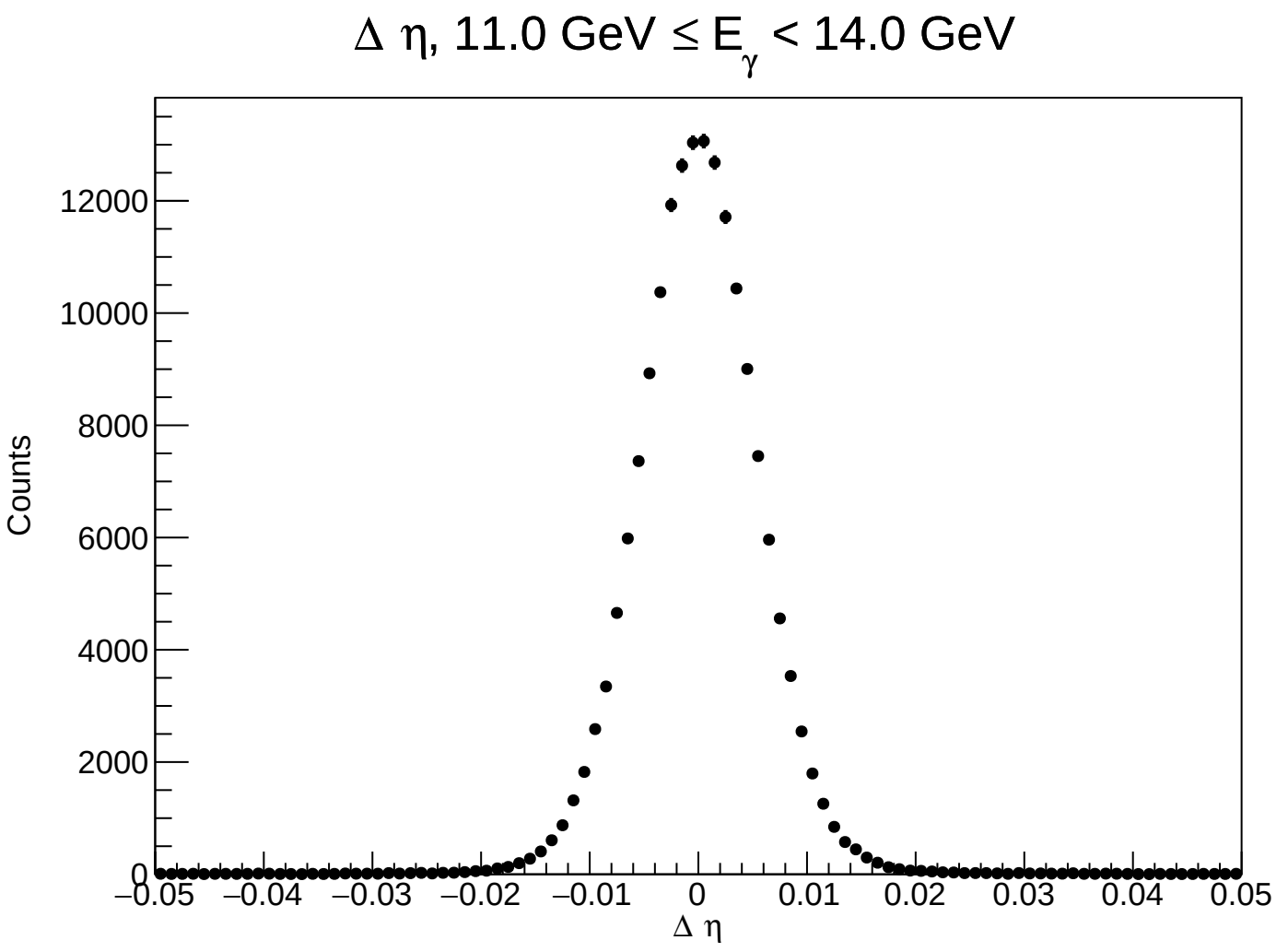

Δ η, 2.0 GeV ≤ E_γ < 5.0 GeV
μ=0.00003±0.00003
σ=0.00531±0.00004
Counts
Δ η
12000
10000
8000
6000
4000
2000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05

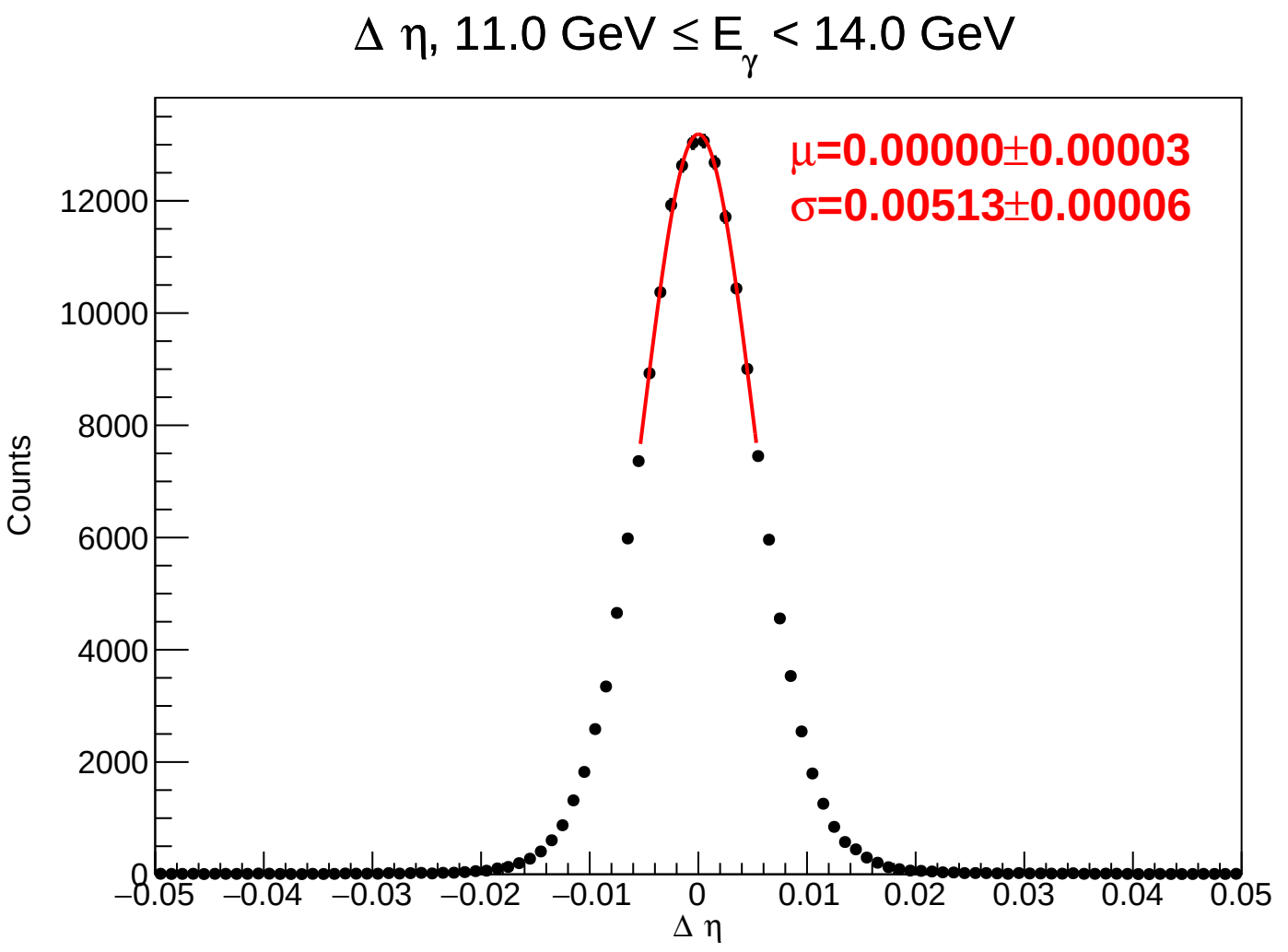

Δ η, 5.0 GeV ≤ E_γ < 8.0 GeV
Counts
12000
10000
8000
6000
4000
2000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

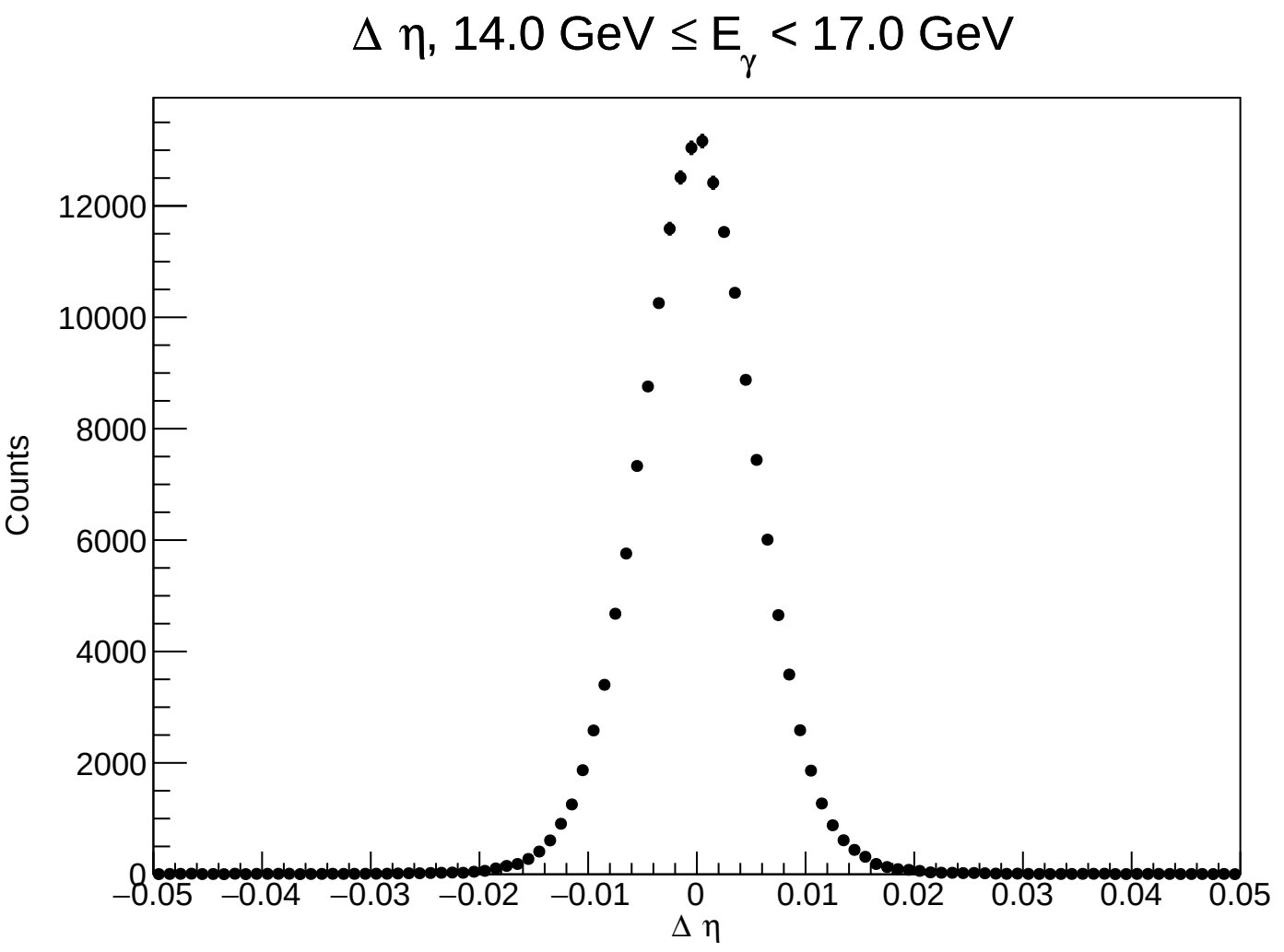

Δ η, 5.0 GeV ≤ E_γ < 8.0 GeV
μ=0.00005±0.00003
σ=0.00506±0.00006
Counts
Δ η
0
2000
4000
6000
8000
10000
12000
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05

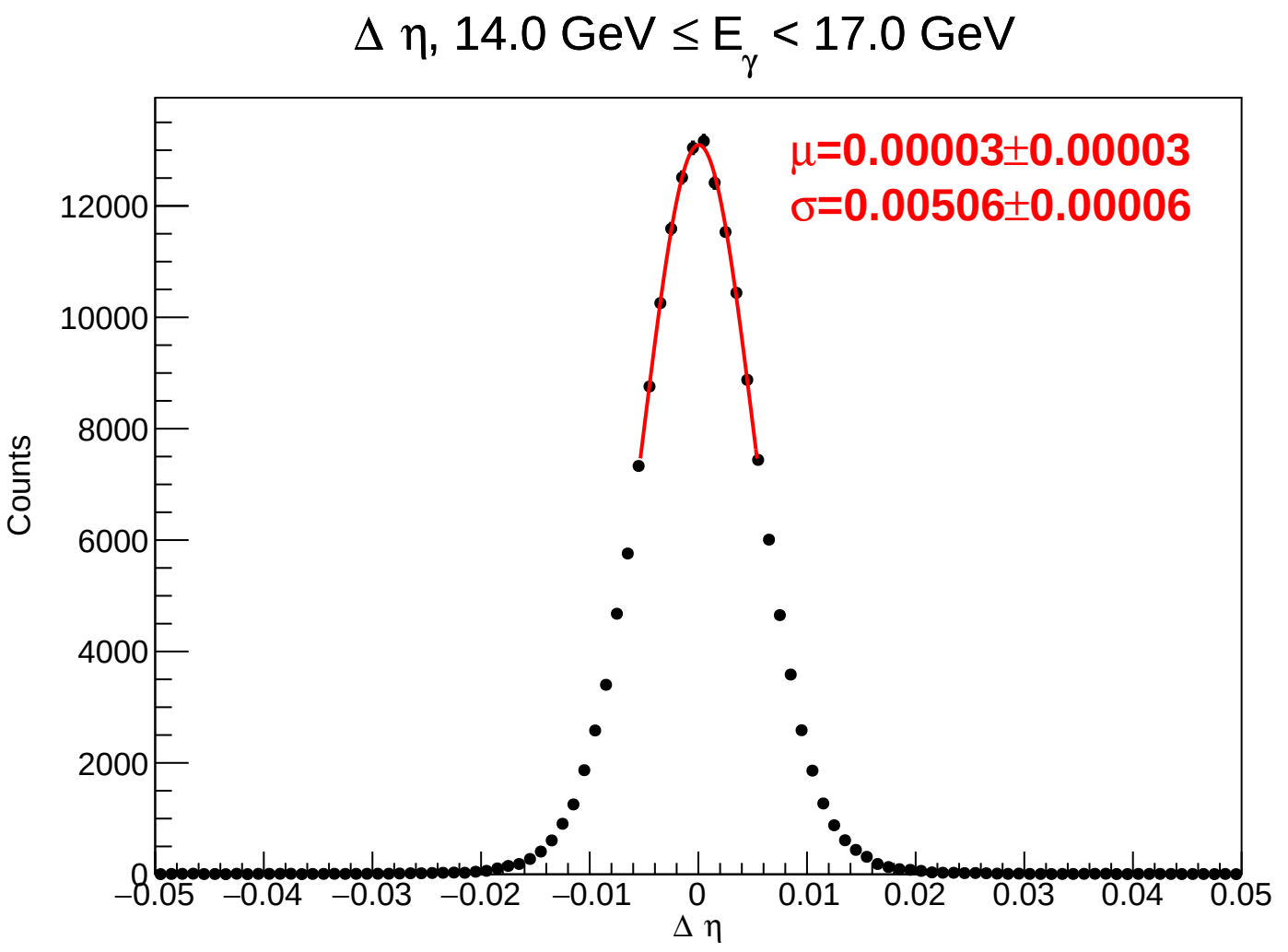

Δ η, 8.0 GeV ≤ E_γ < 11.0 GeV
Counts
14000
12000
10000
8000
6000
4000
2000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

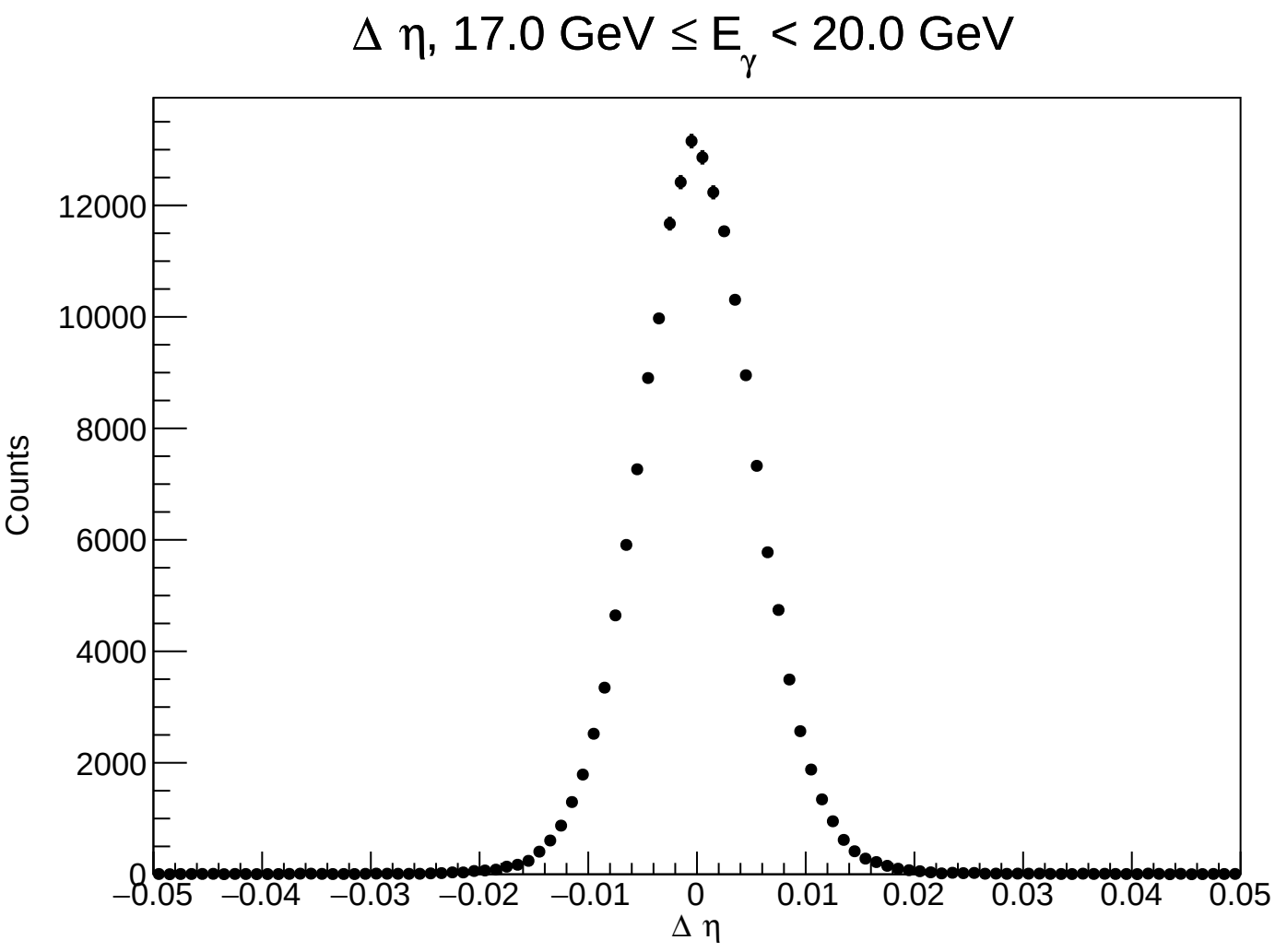

Δ η, 8.0 GeV ≤ E_γ < 11.0 GeV
μ=0.00002±0.00003
σ=0.00507±0.00006
Counts
Δ η
14000
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

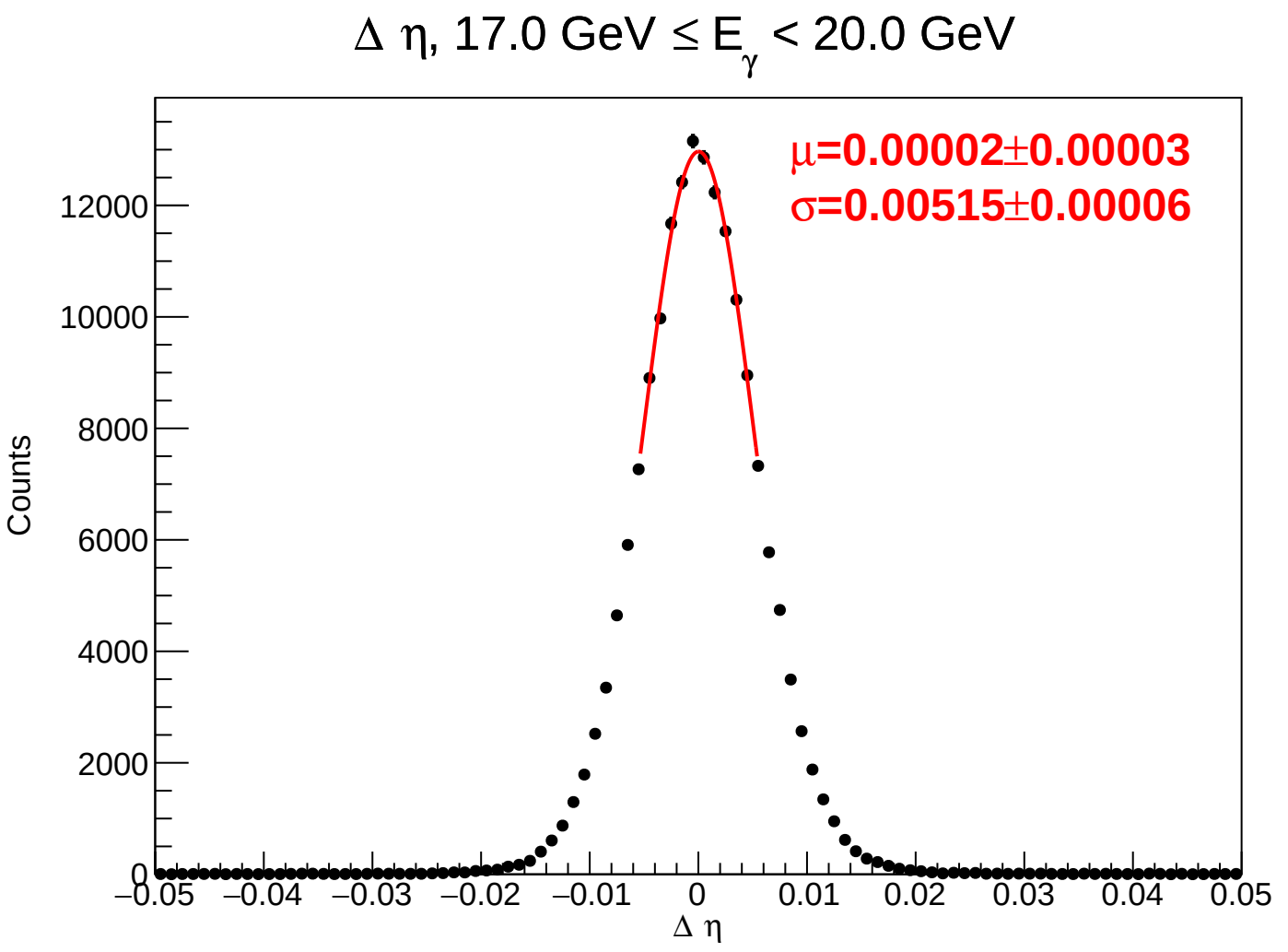

Δ η, 11.0 GeV ≤ E_γ < 14.0 GeV
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

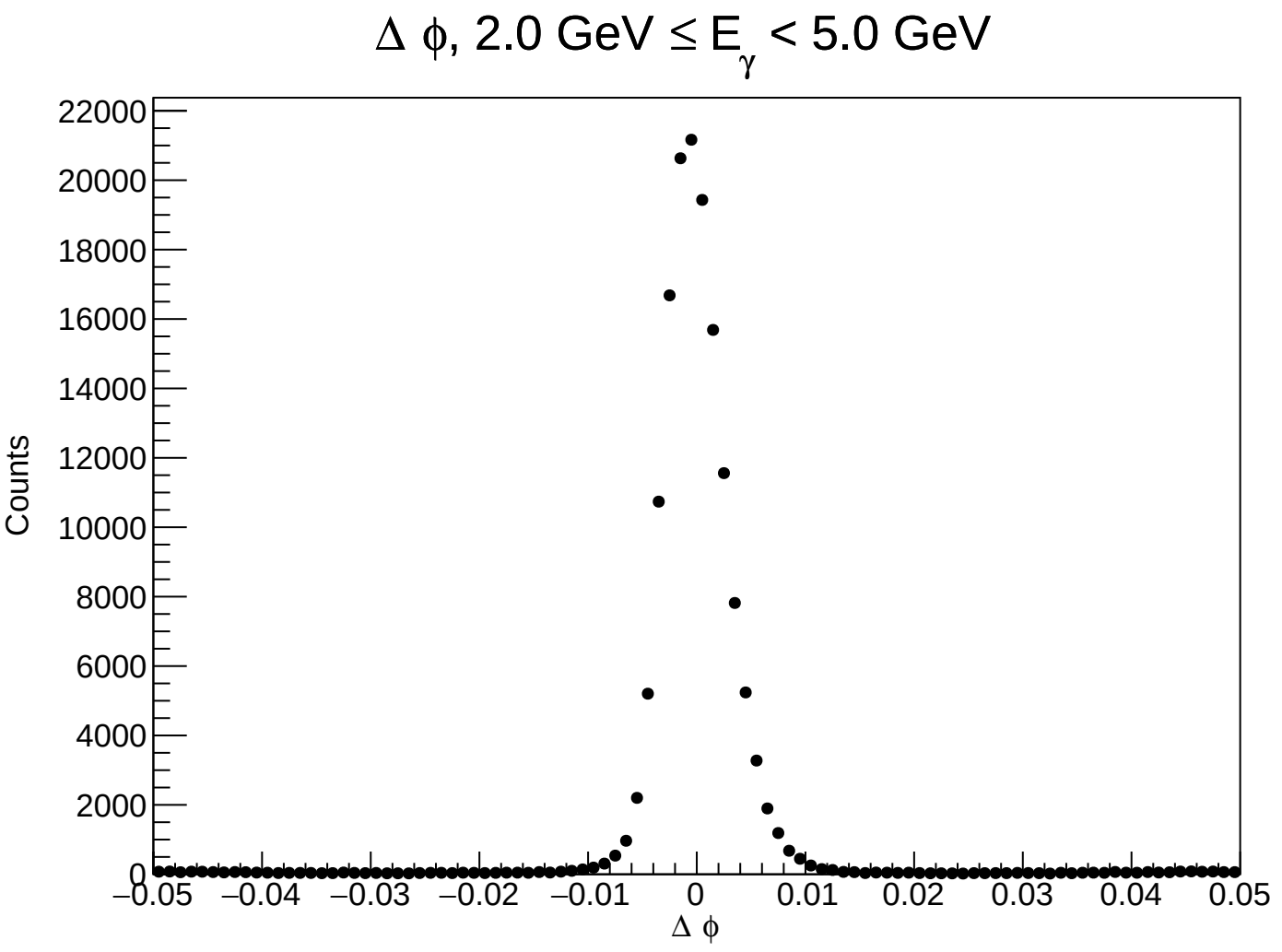

Δ η, 11.0 GeV ≤ E_γ < 14.0 GeV
μ=0.00000±0.00003
σ=0.00513±0.00006
Counts
Δ η
12000
10000
8000
6000
4000
2000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05

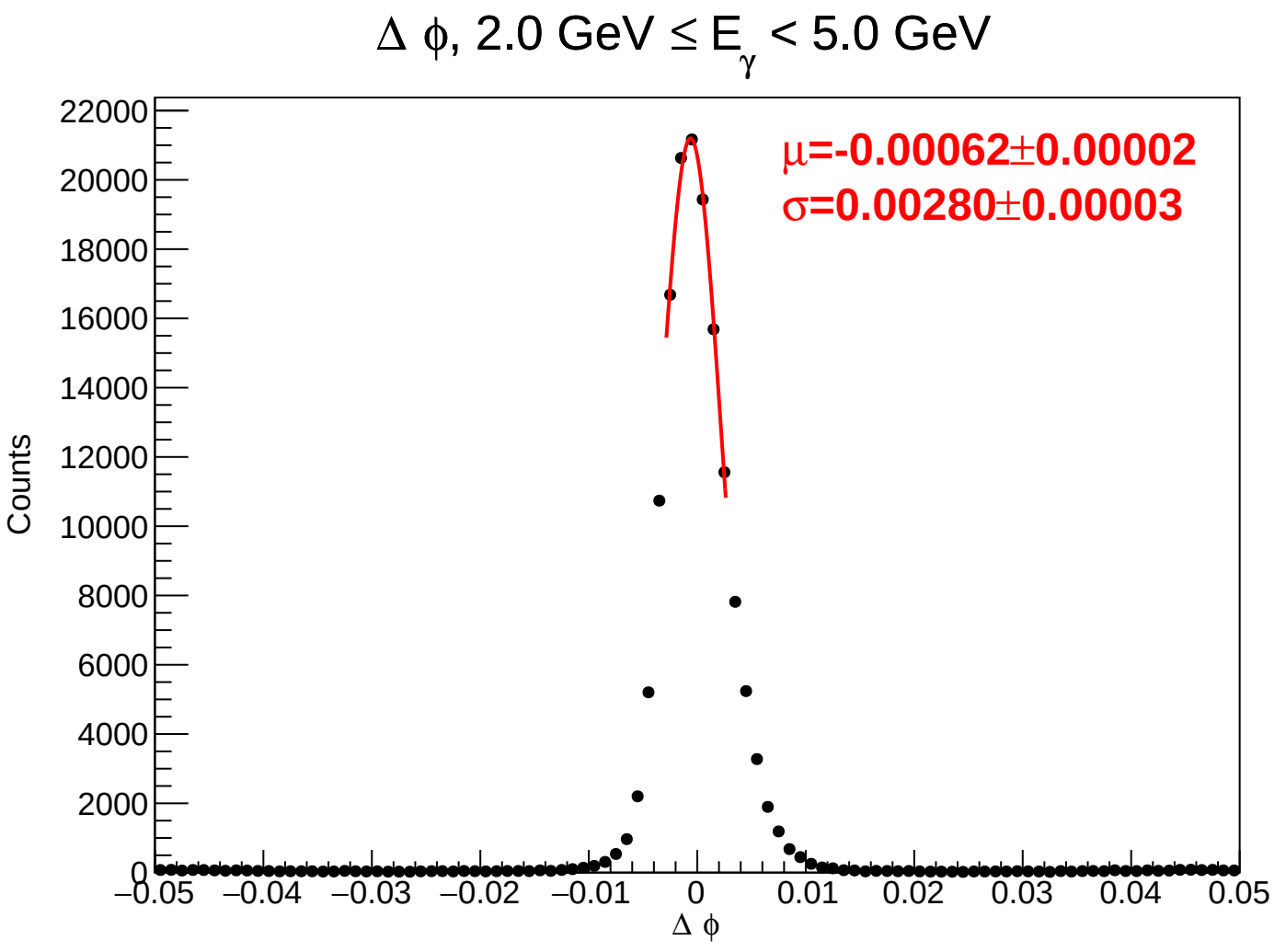

Δ η, 14.0 GeV ≤ E_γ < 17.0 GeV
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

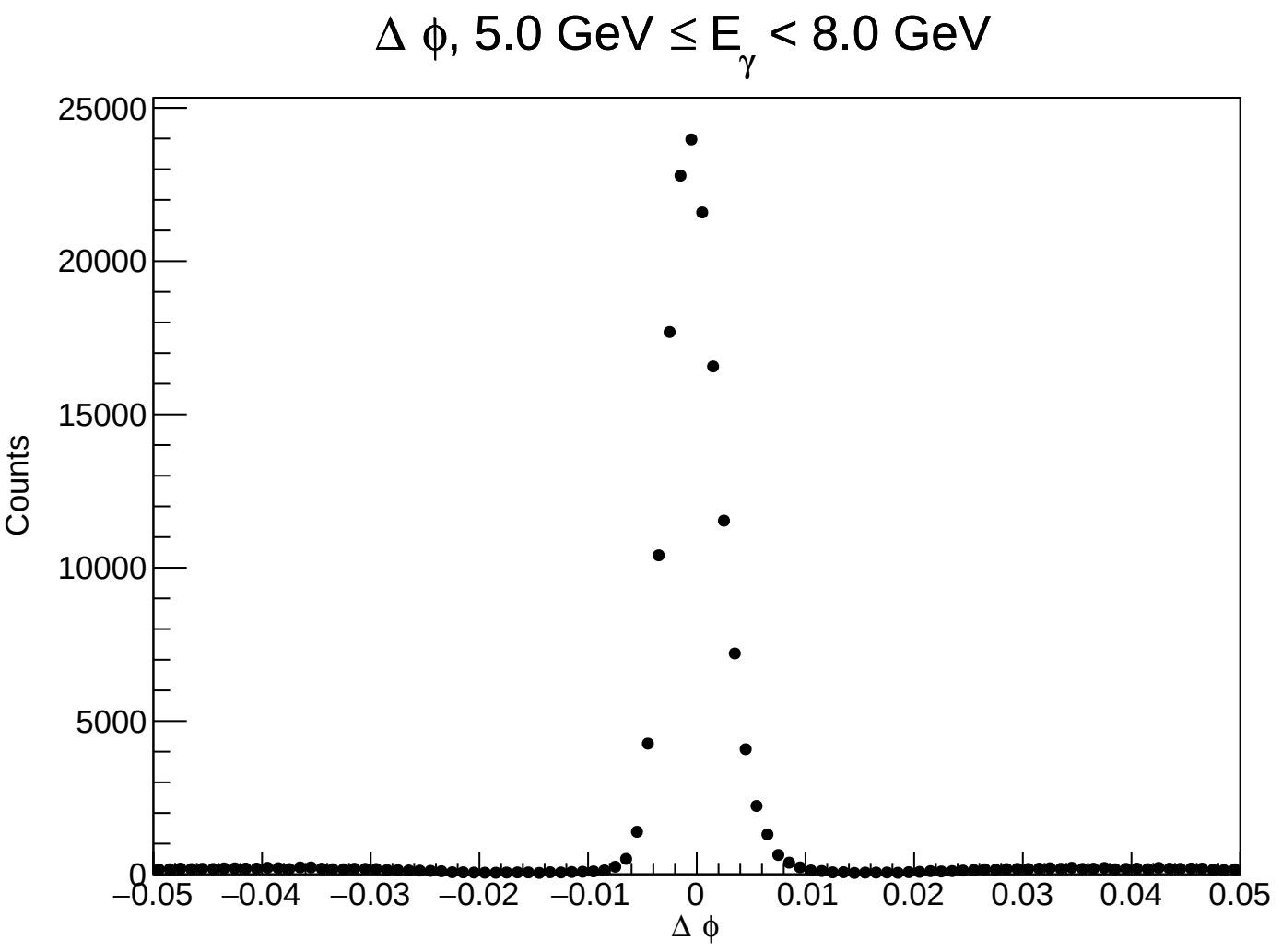

Δ η, 14.0 GeV ≤ E_γ < 17.0 GeV
μ=0.00003±0.00003
σ=0.00506±0.00006
Counts
Δ η
12000
10000
8000
6000
4000
2000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05

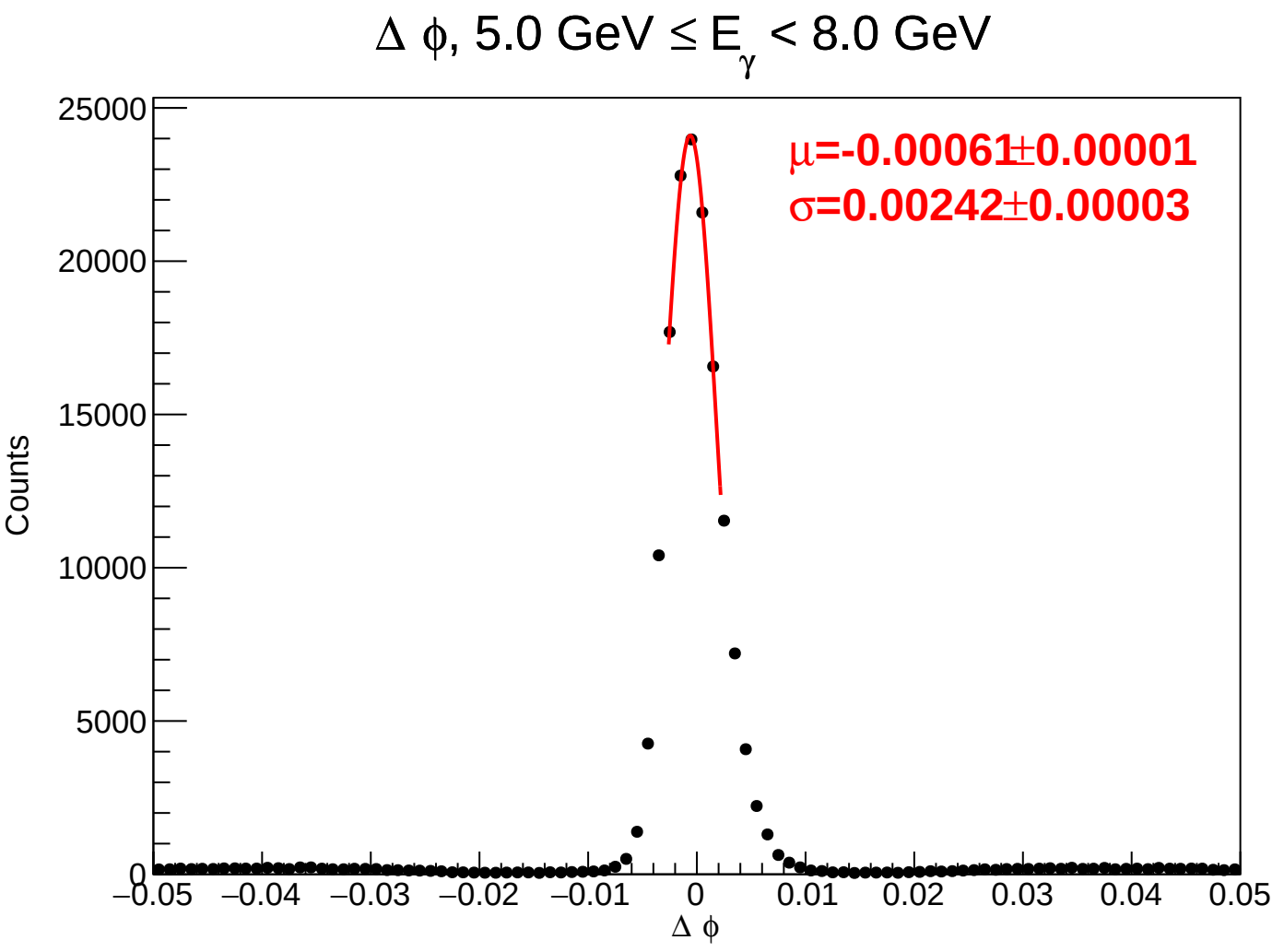

Δ η, 17.0 GeV ≤ E_γ < 20.0 GeV
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

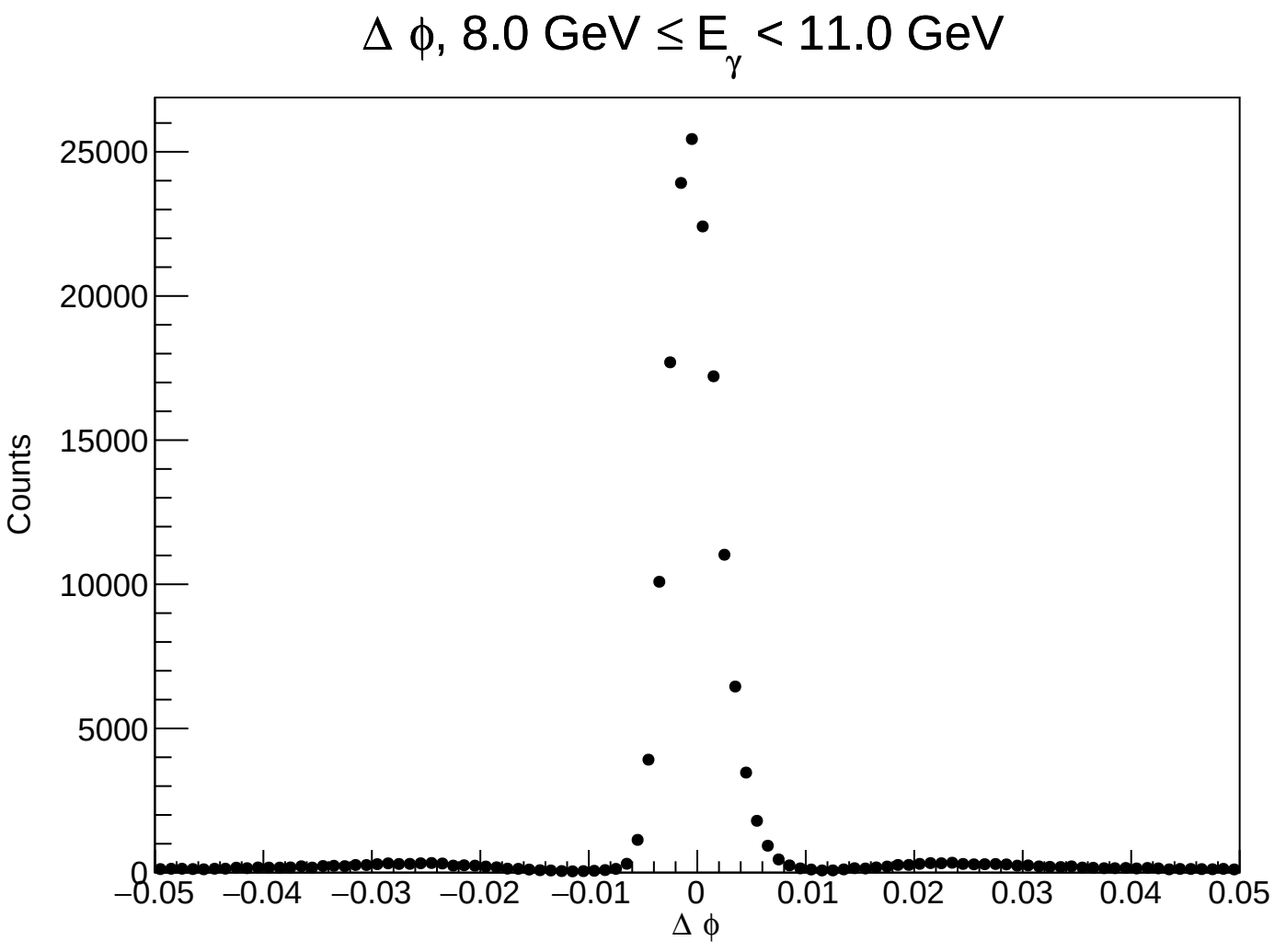

Δ η, 17.0 GeV ≤ E_γ < 20.0 GeV
μ=0.00002±0.00003
σ=0.00515±0.00006
Counts
12000
10000
8000
6000
4000
2000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

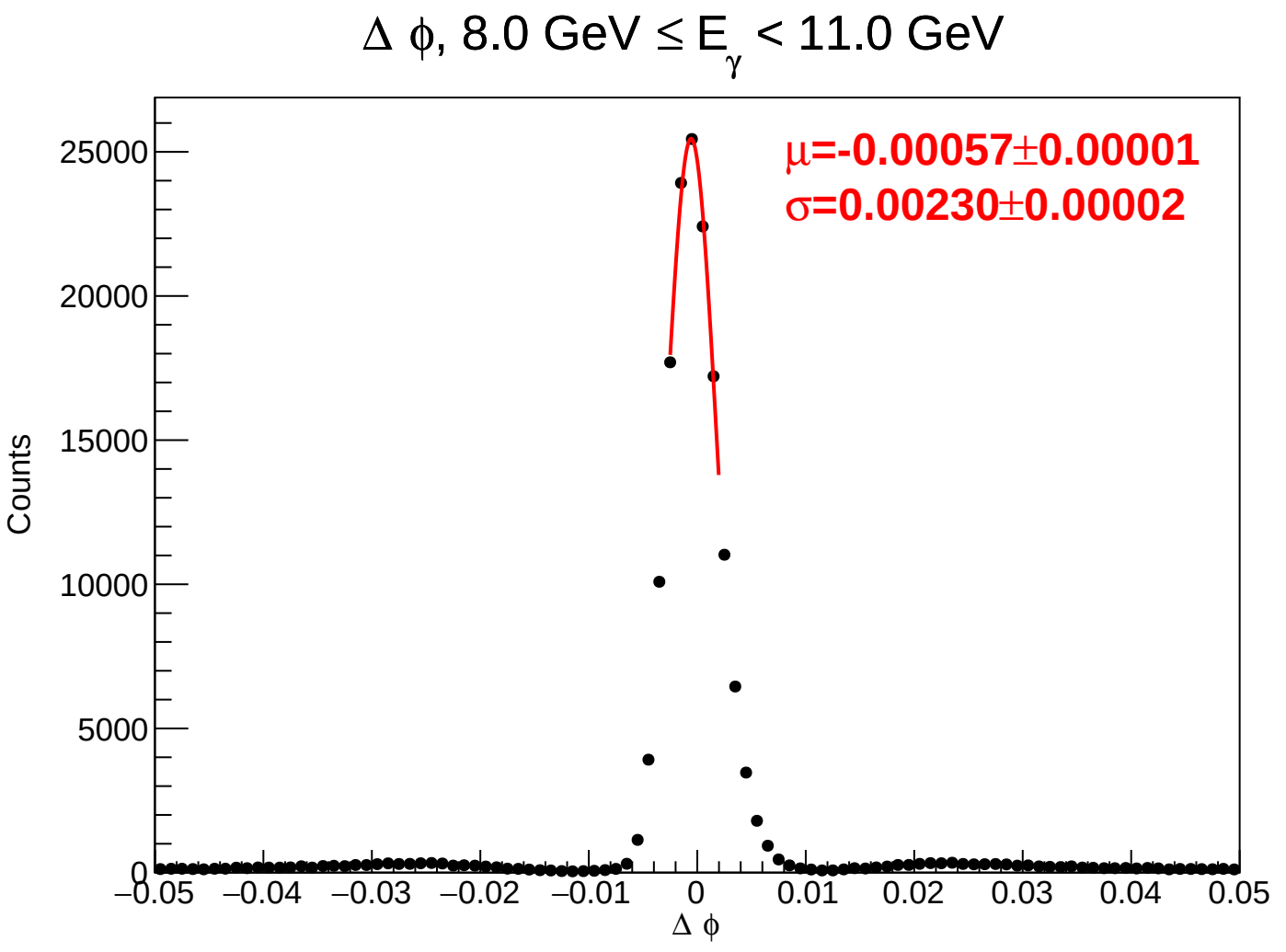

Δ ϕ, 2.0 GeV ≤ E_γ < 5.0 GeV
Counts
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

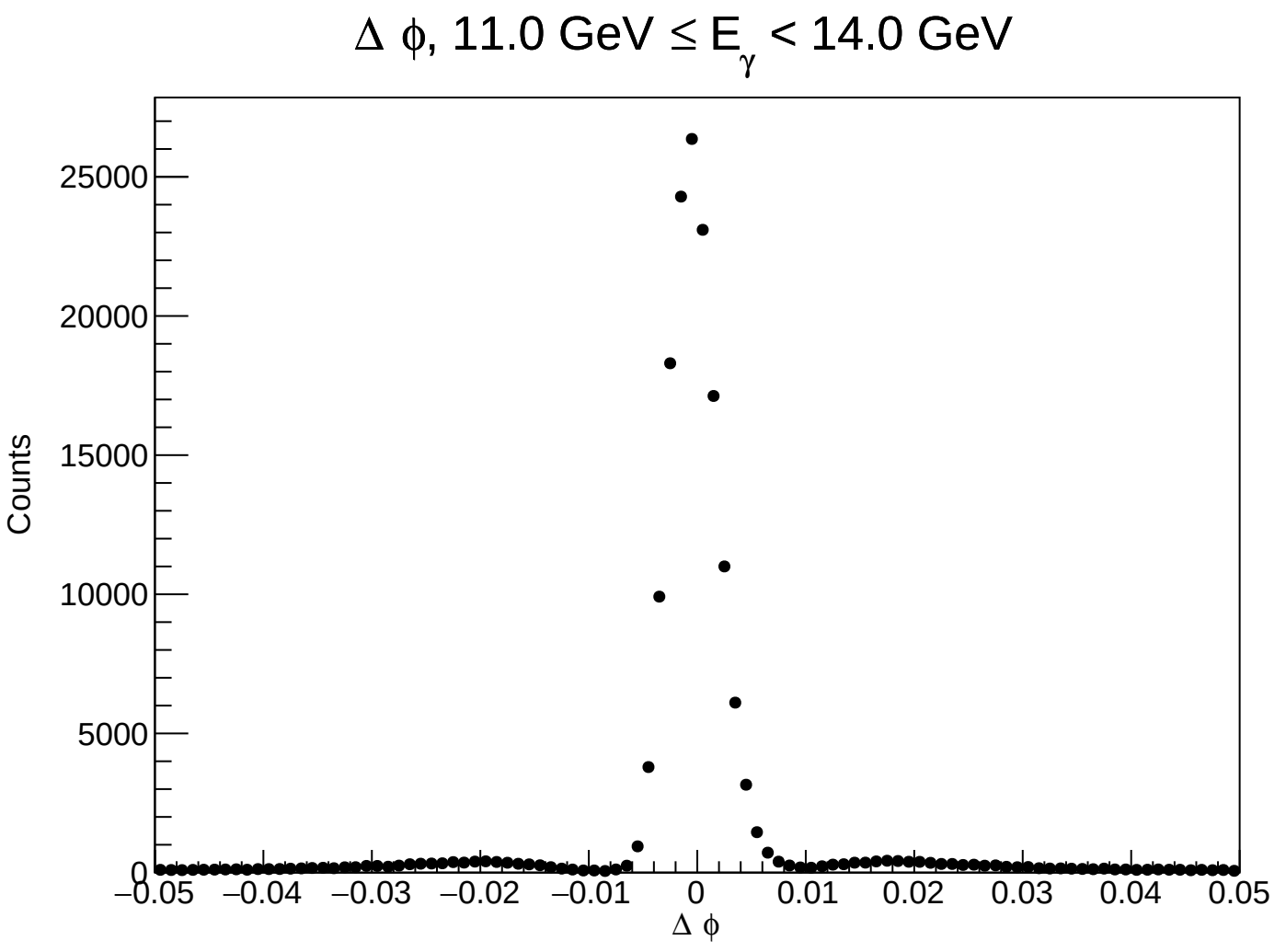

Δ ϕ, 2.0 GeV ≤ E_γ < 5.0 GeV
μ=-0.00062±0.00002
σ=0.00280±0.00003
Counts
Δ ϕ
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

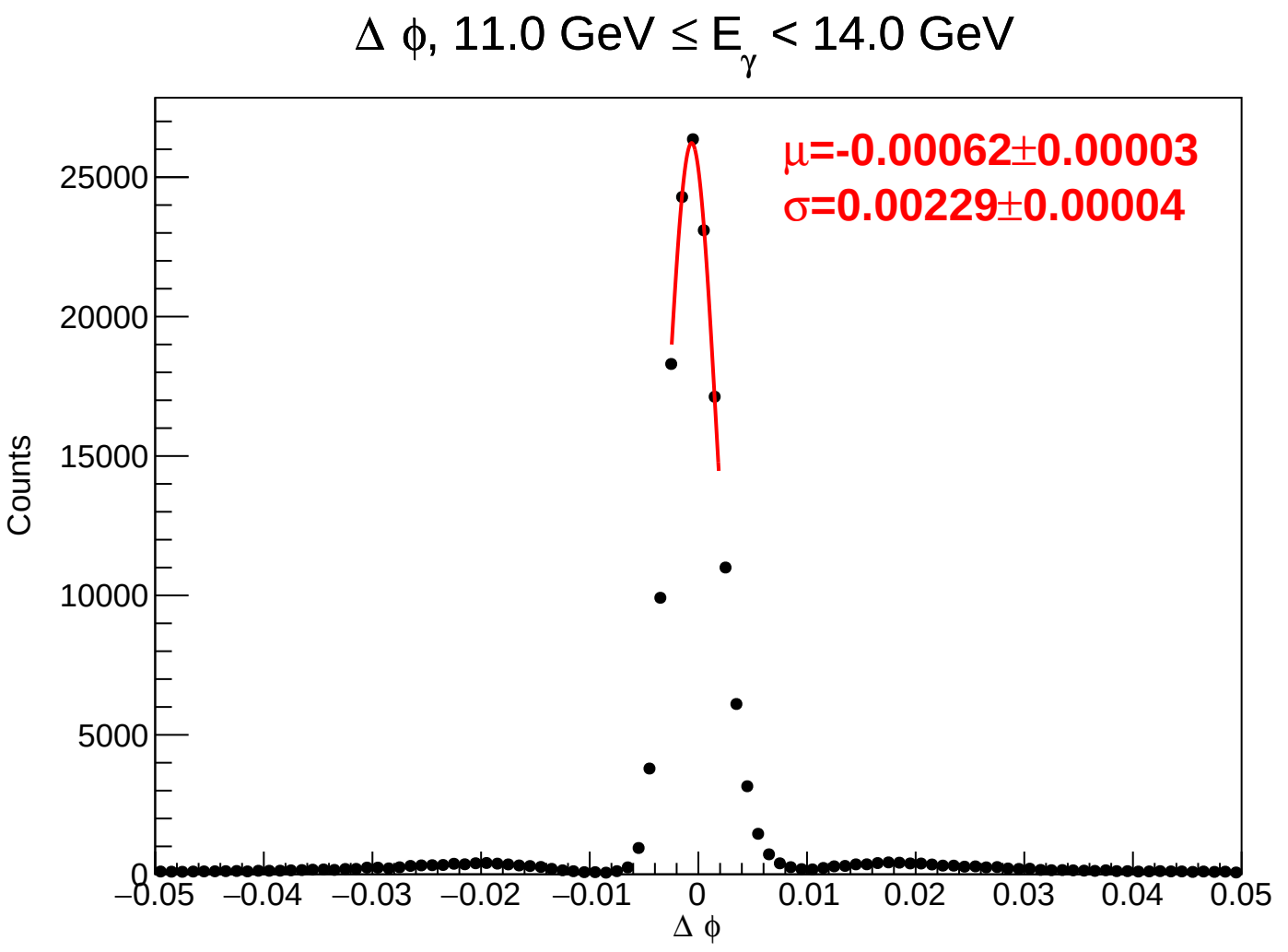

Δ ϕ, 5.0 GeV ≤ E_γ < 8.0 GeV
Counts
25000
20000
15000
10000
5000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

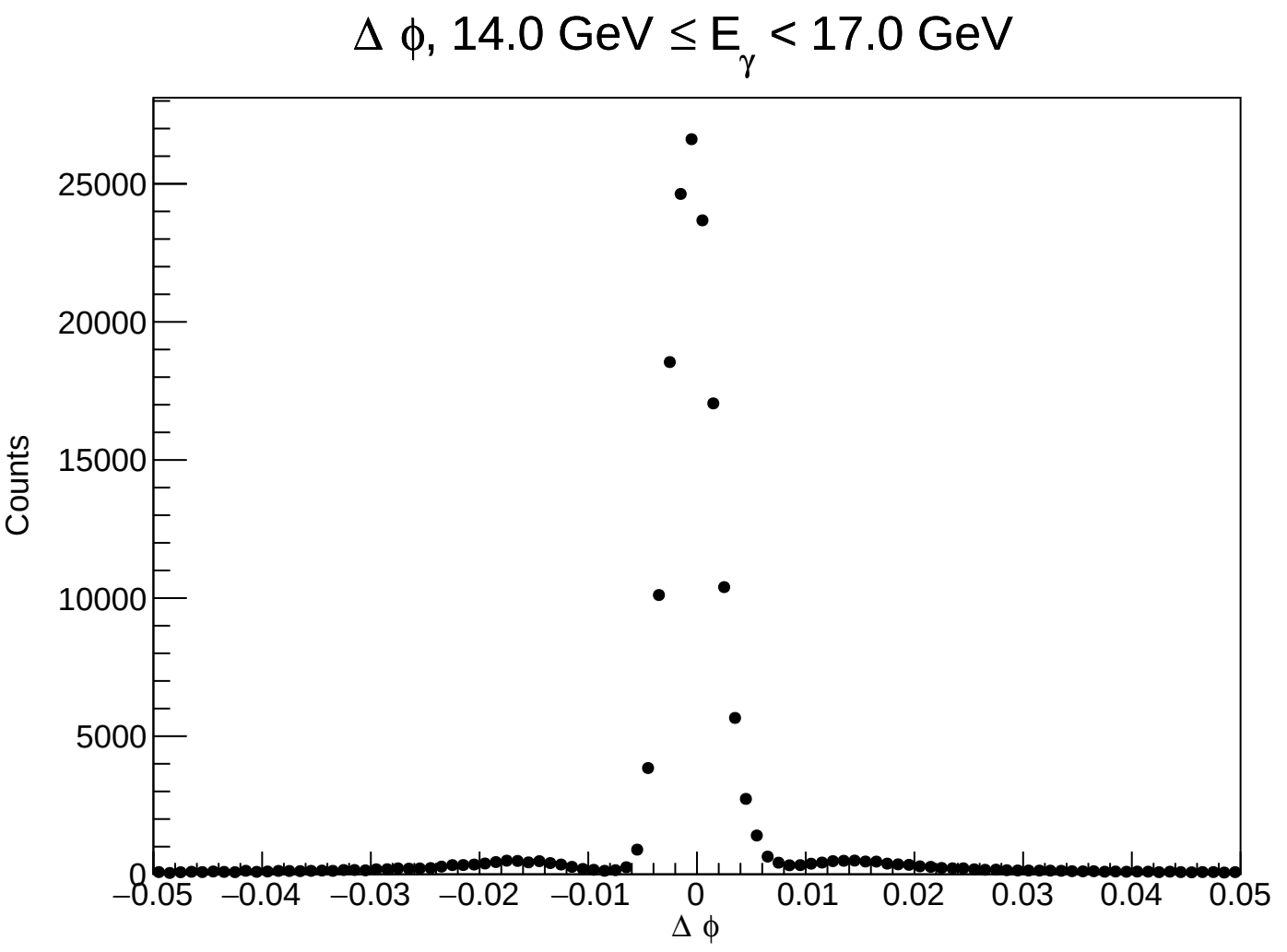

Δ ϕ, 5.0 GeV ≤ E_γ < 8.0 GeV
μ=-0.00061±0.00001
σ=0.00242±0.00003
Counts
Δ ϕ
25000
20000
15000
10000
5000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

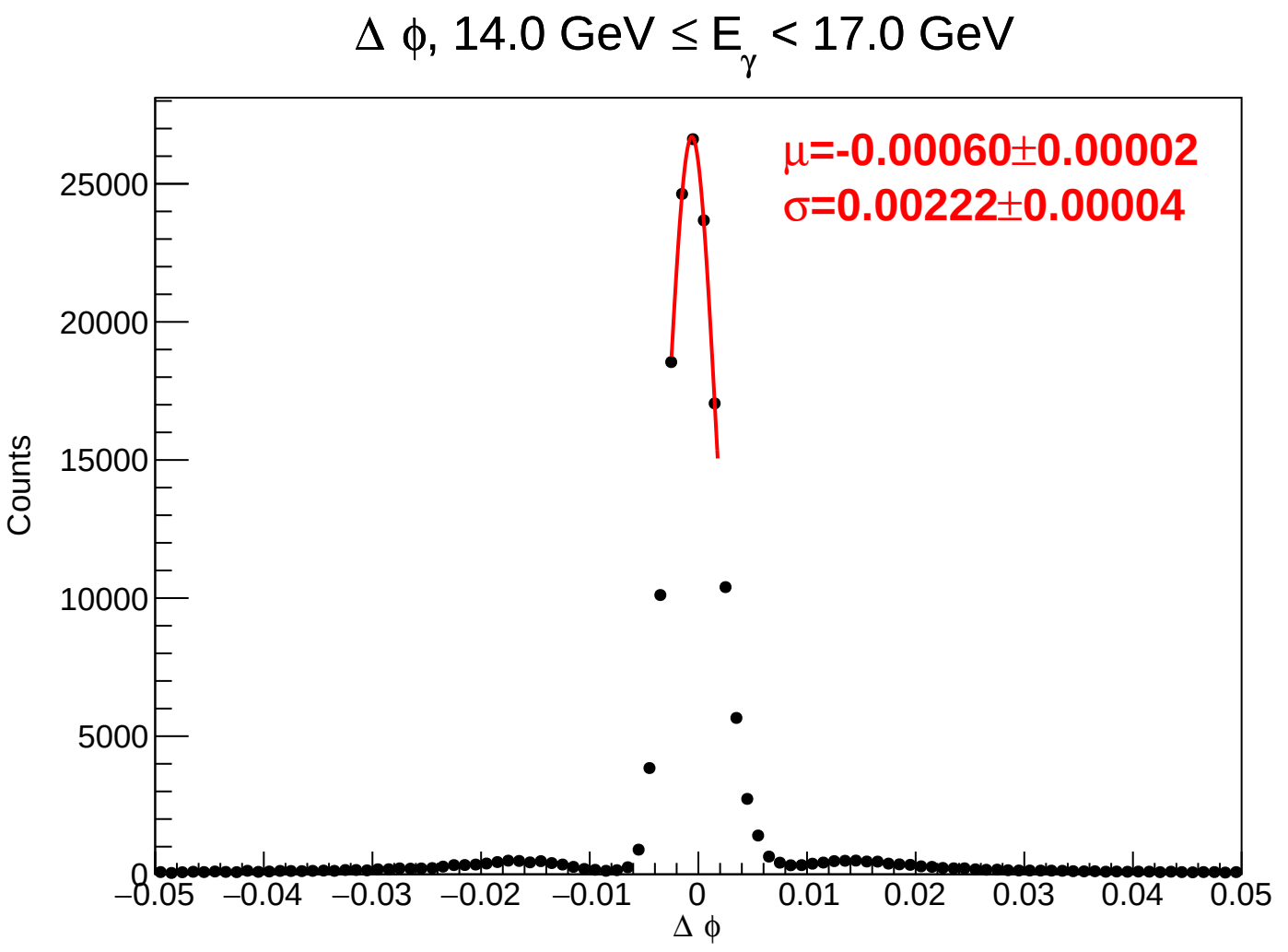

Δ ϕ, 8.0 GeV ≤ E_γ < 11.0 GeV
Counts
25000
20000
15000
10000
5000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

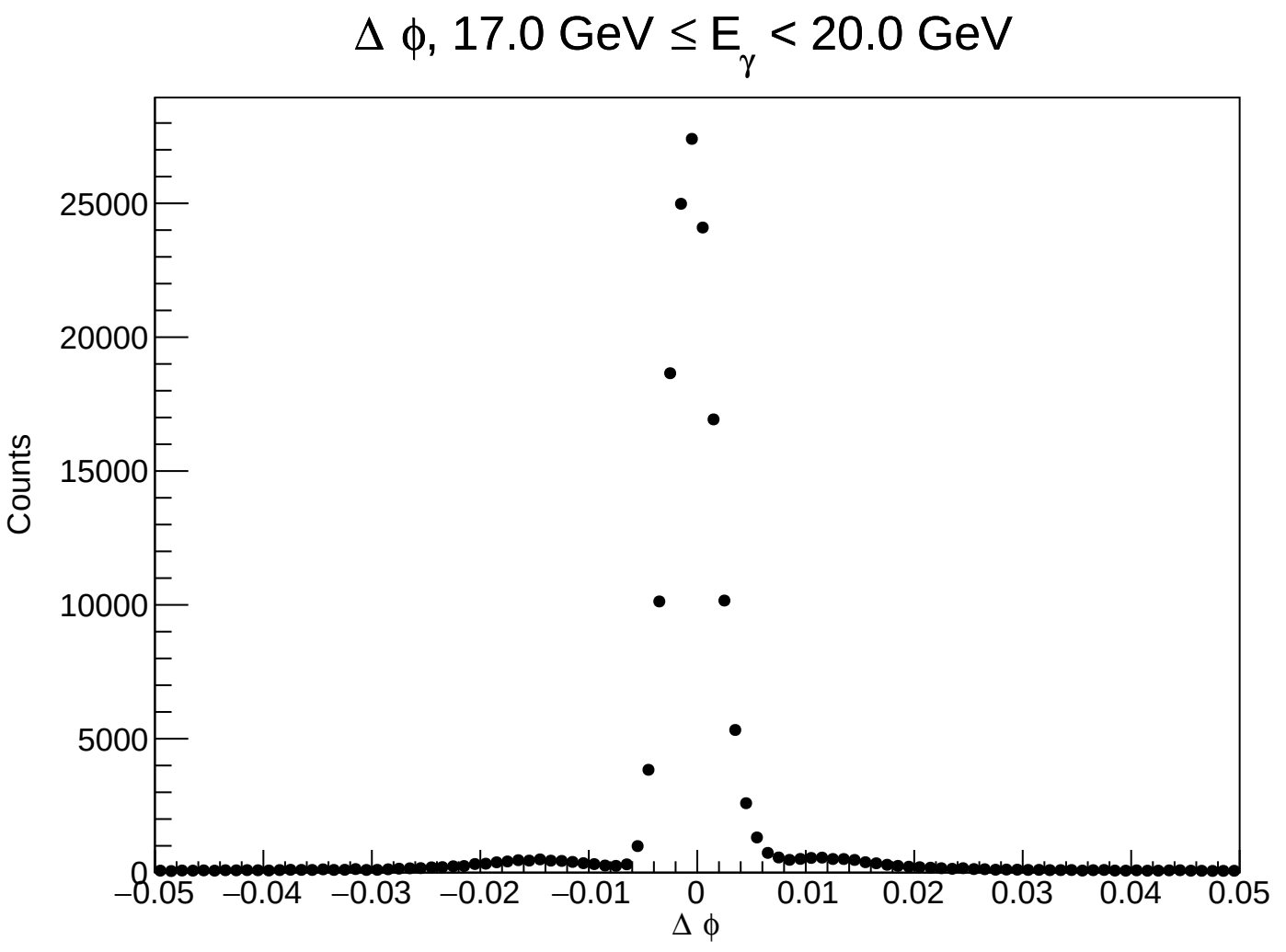

Δ ϕ, 8.0 GeV ≤ E_γ < 11.0 GeV
μ=-0.00057±0.00001
σ=0.00230±0.00002
Counts
25000
20000
15000
10000
5000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

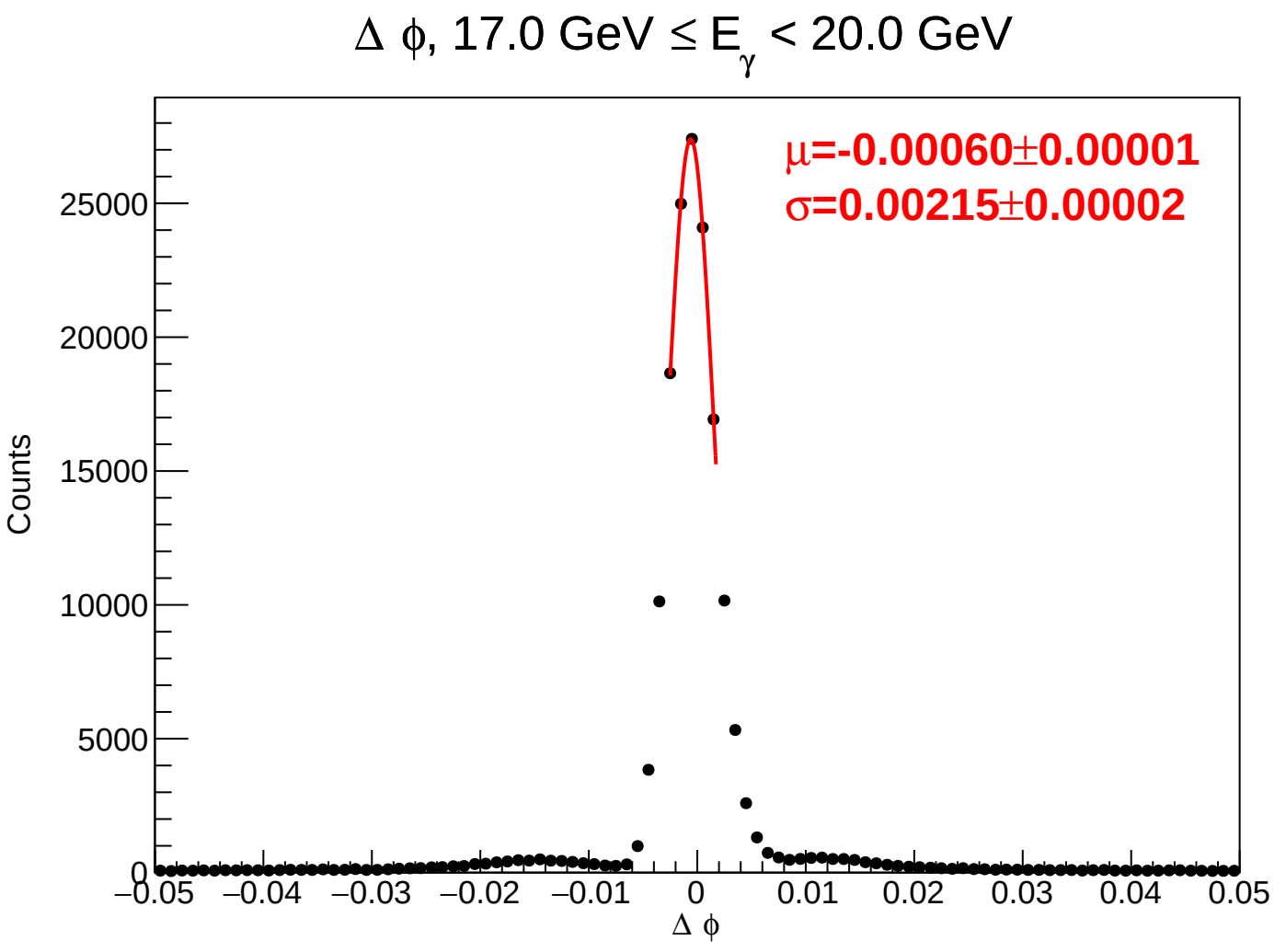

Δ ϕ, 11.0 GeV ≤ E_γ < 14.0 GeV
Counts
25000
20000
15000
10000
5000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

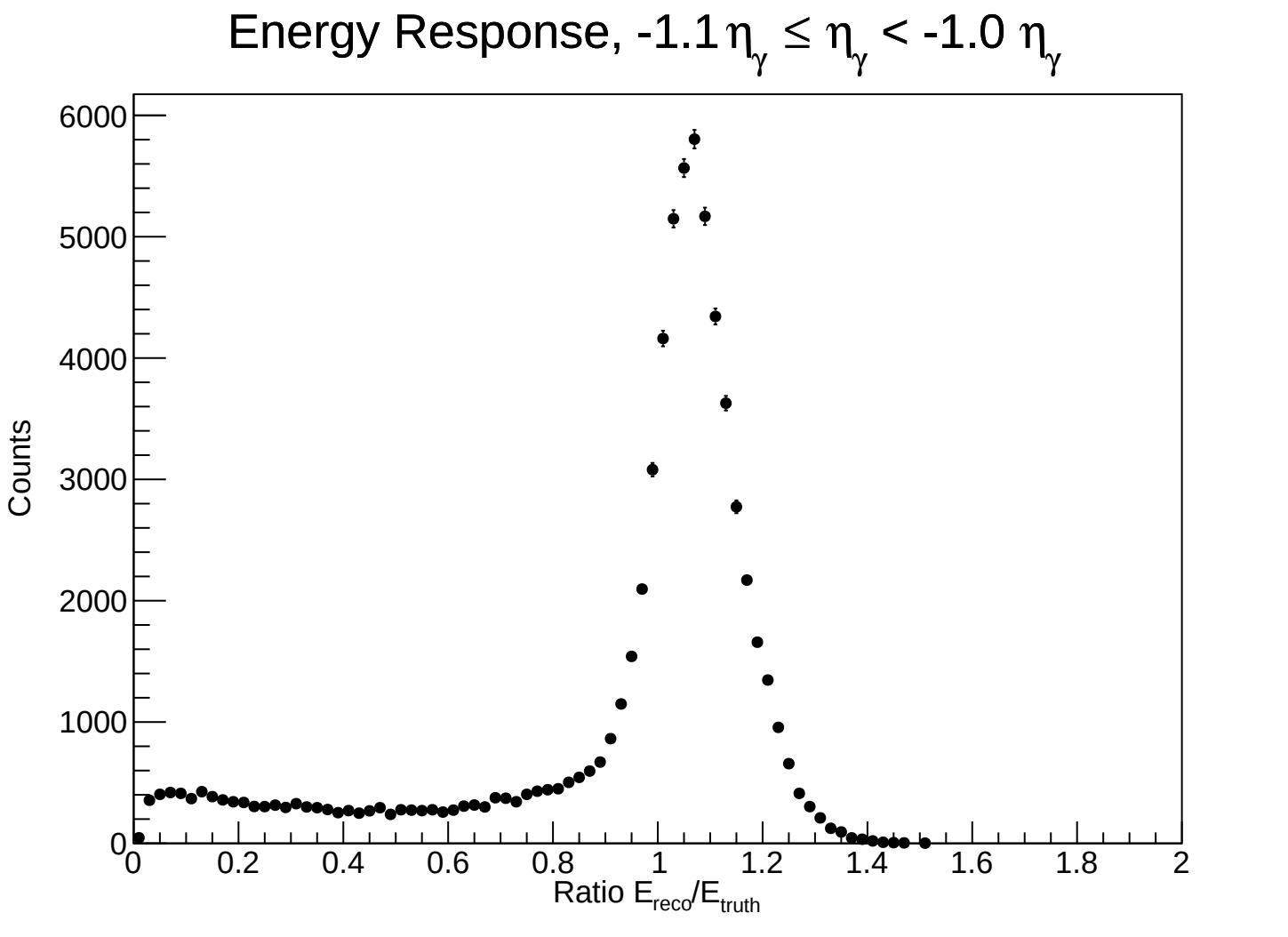

Δ ϕ, 11.0 GeV ≤ E_γ < 14.0 GeV
μ=-0.00062±0.00003
σ=0.00229±0.00004
Counts
25000
20000
15000
10000
5000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

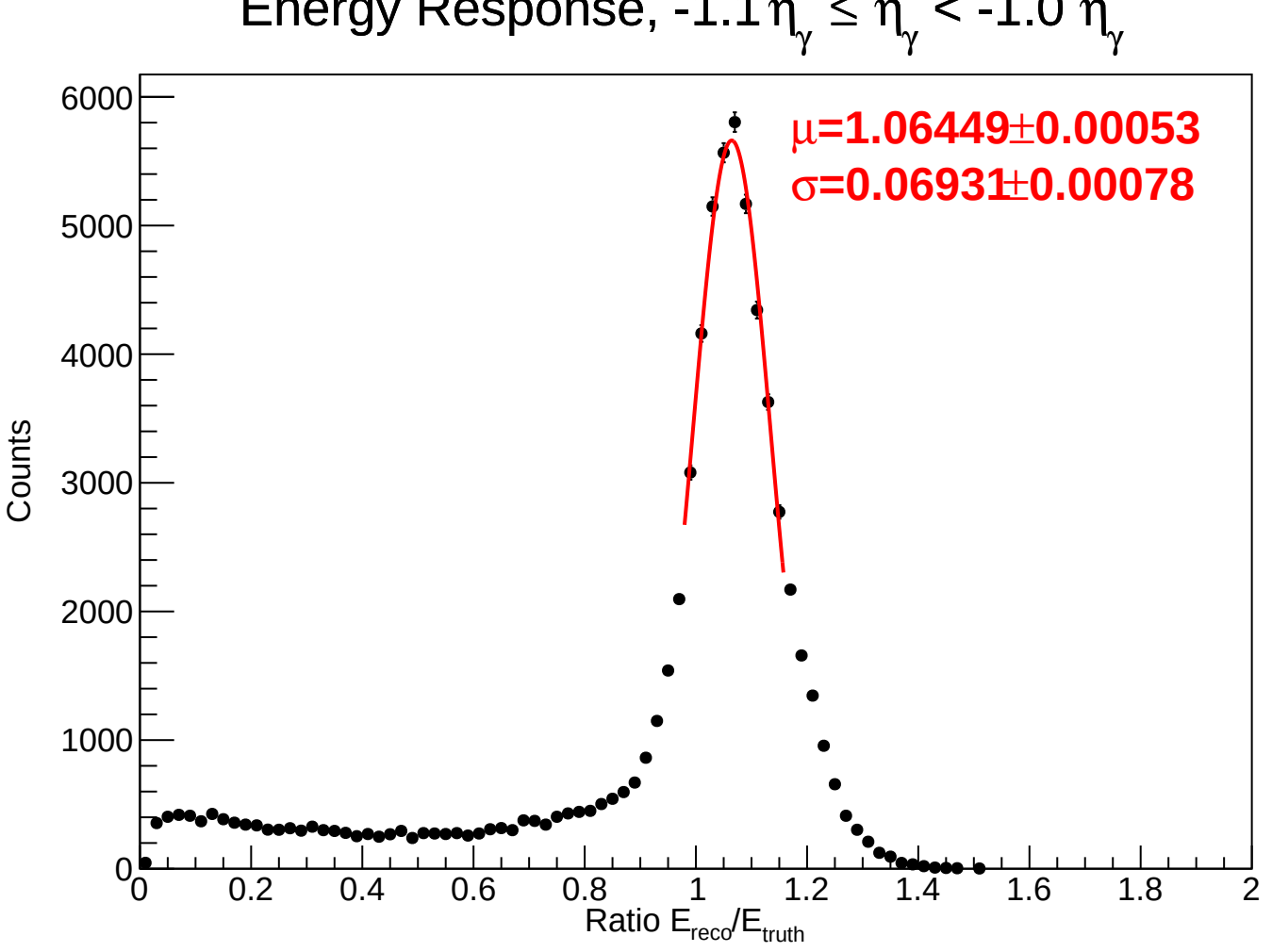

Δ ϕ, 14.0 GeV ≤ E_γ < 17.0 GeV
Counts
25000
20000
15000
10000
5000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

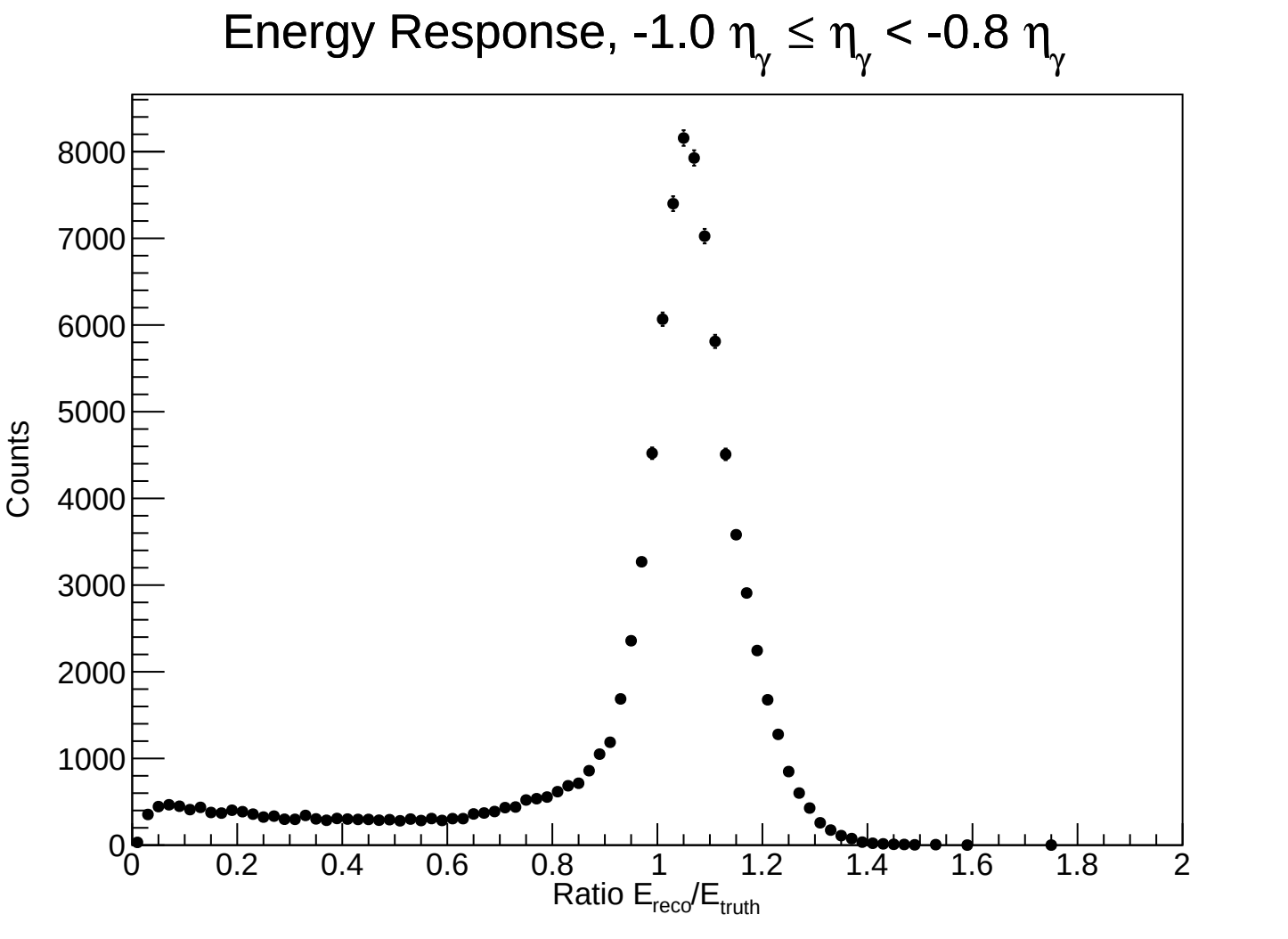

Δ ϕ, 14.0 GeV ≤ E_γ < 17.0 GeV
μ=-0.00060±0.00002
σ=0.00222±0.00004
Counts
25000
20000
15000
10000
5000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

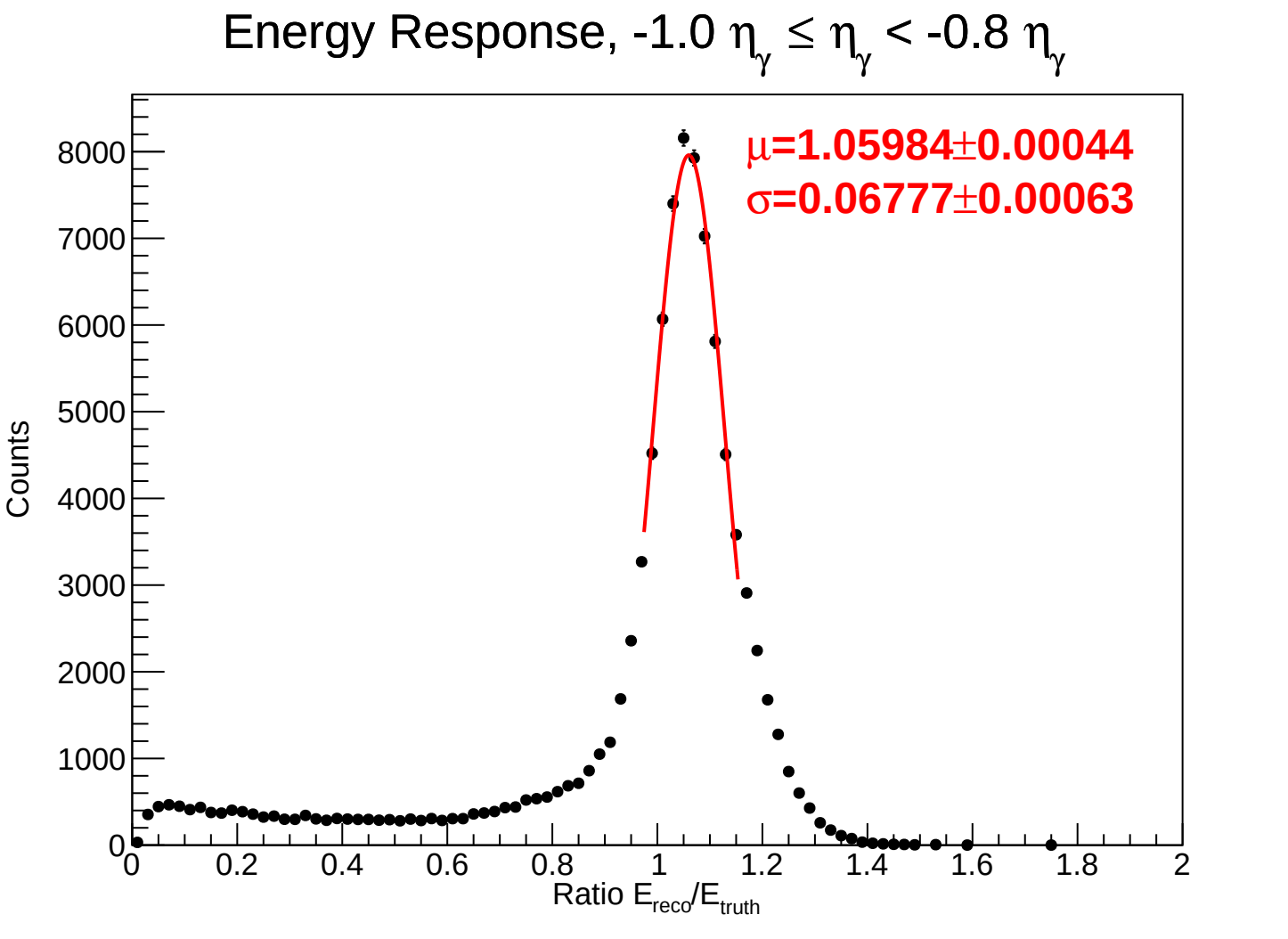

Δ ϕ, 17.0 GeV ≤ E_γ < 20.0 GeV
Counts
25000
20000
15000
10000
5000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

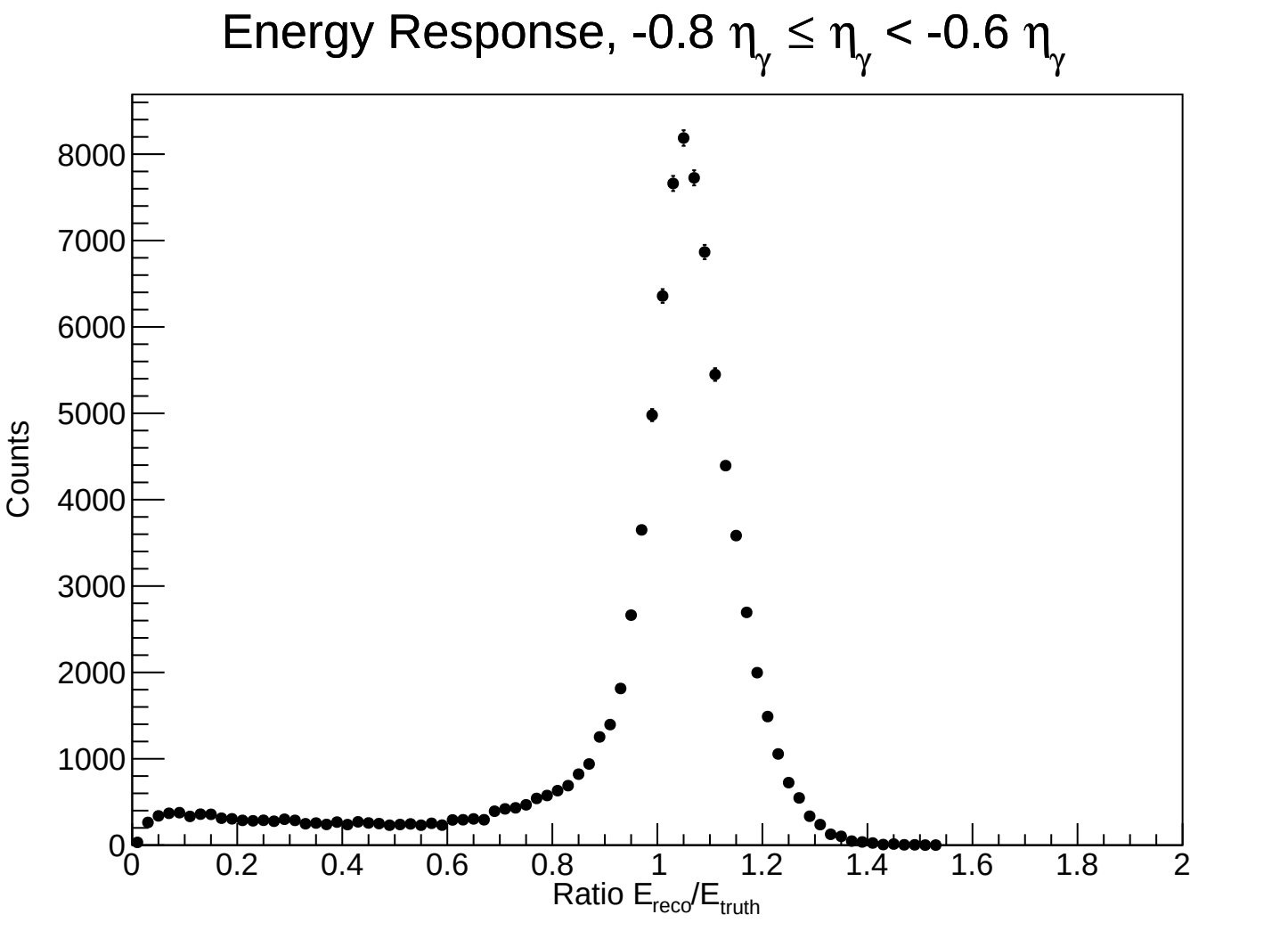

Δ ϕ, 17.0 GeV ≤ E_γ < 20.0 GeV
μ=-0.00060±0.00001
σ=0.00215±0.00002
Counts
25000
20000
15000
10000
5000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

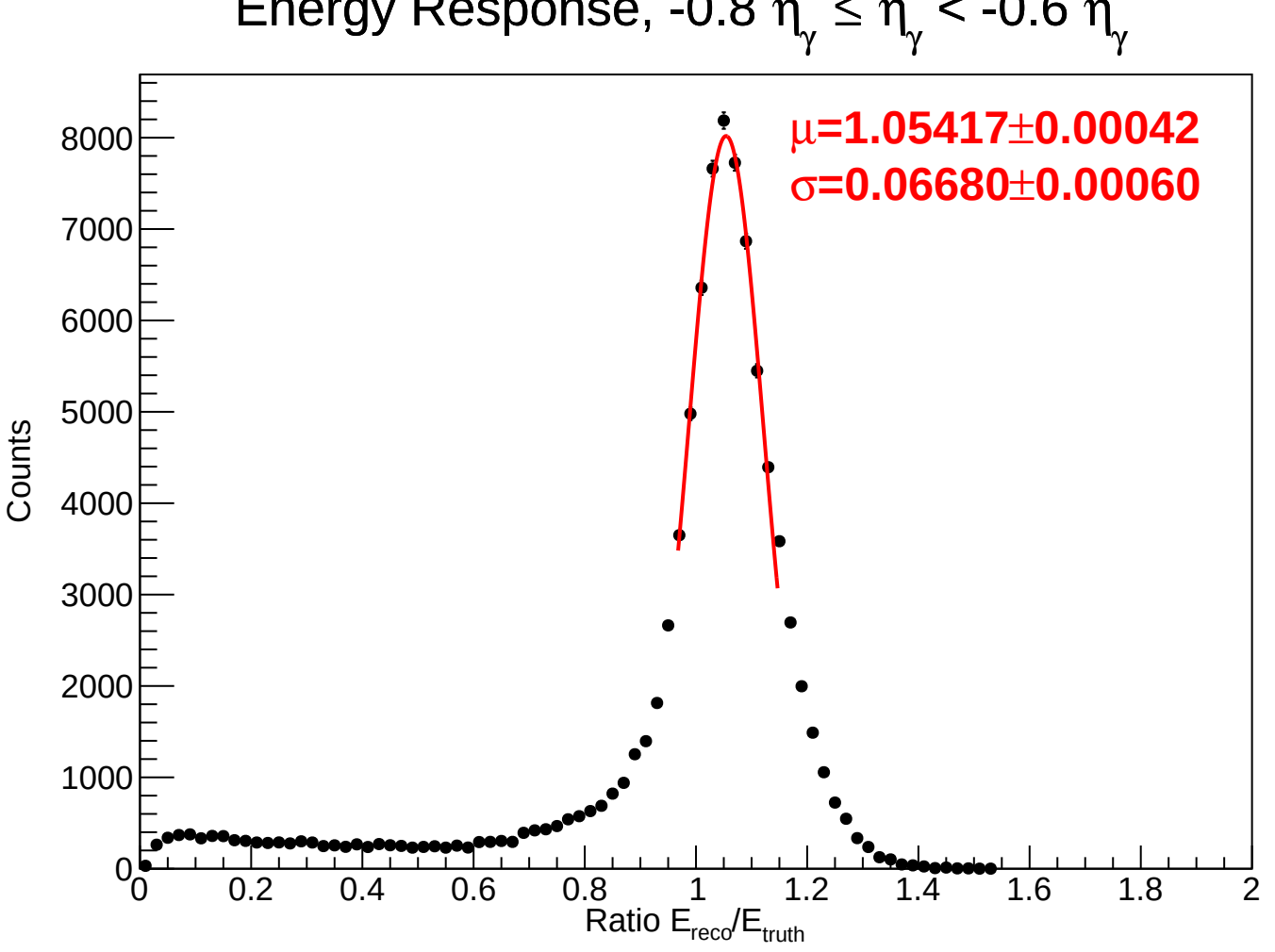

Energy Response, -1.1 η_γ ≤ η_γ < -1.0 η_γ
Counts
Ratio E_reco/E_truth
0
1000
2000
3000
4000
5000
6000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

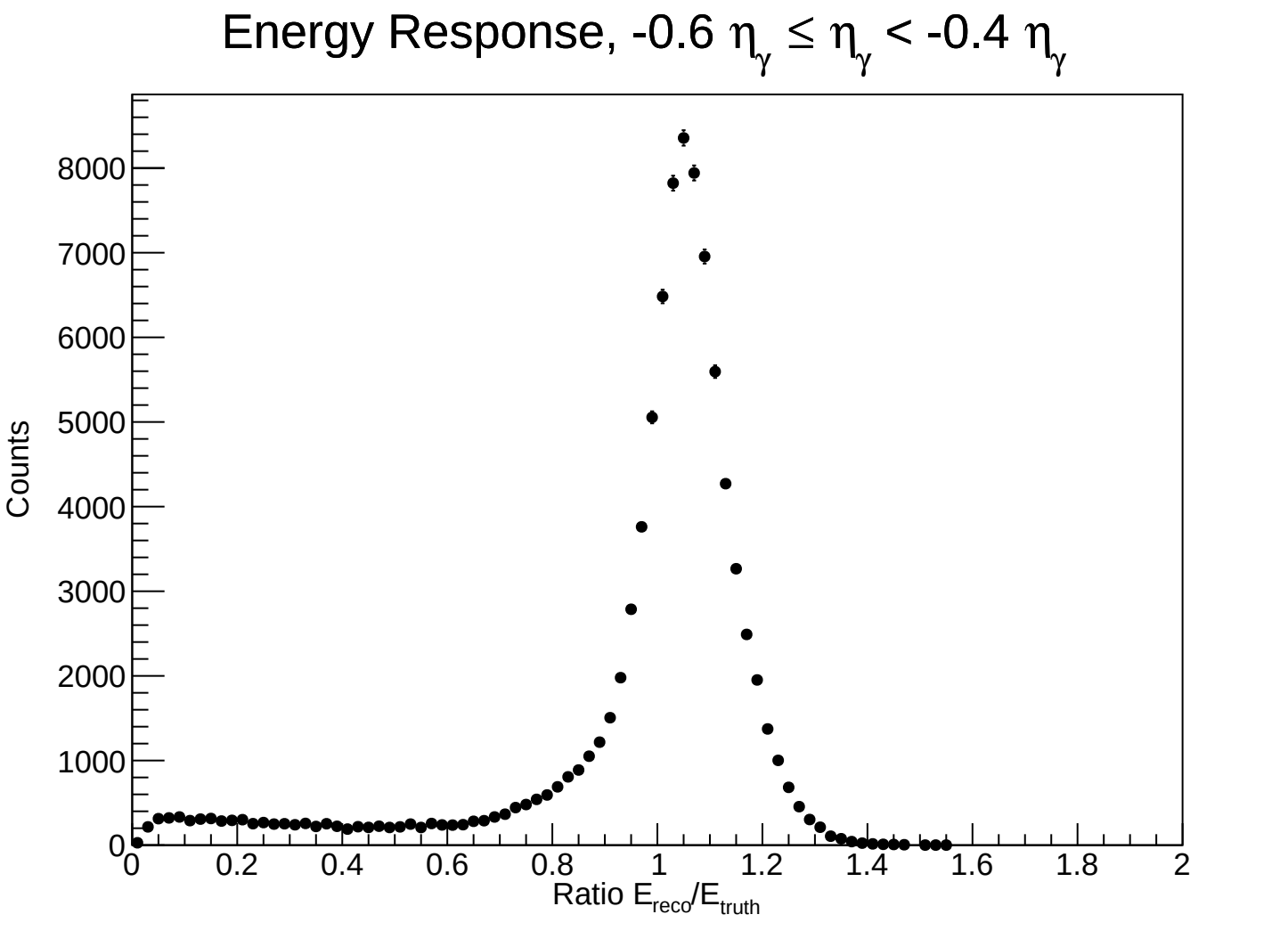

Energy Response, -1.1 η_γ ≤ η_γ < -1.0 η_γ
μ=1.06449±0.00053
σ=0.06931±0.00078
Counts
Ratio E_reco/E_truth
0
1000
2000
3000
4000
5000
6000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

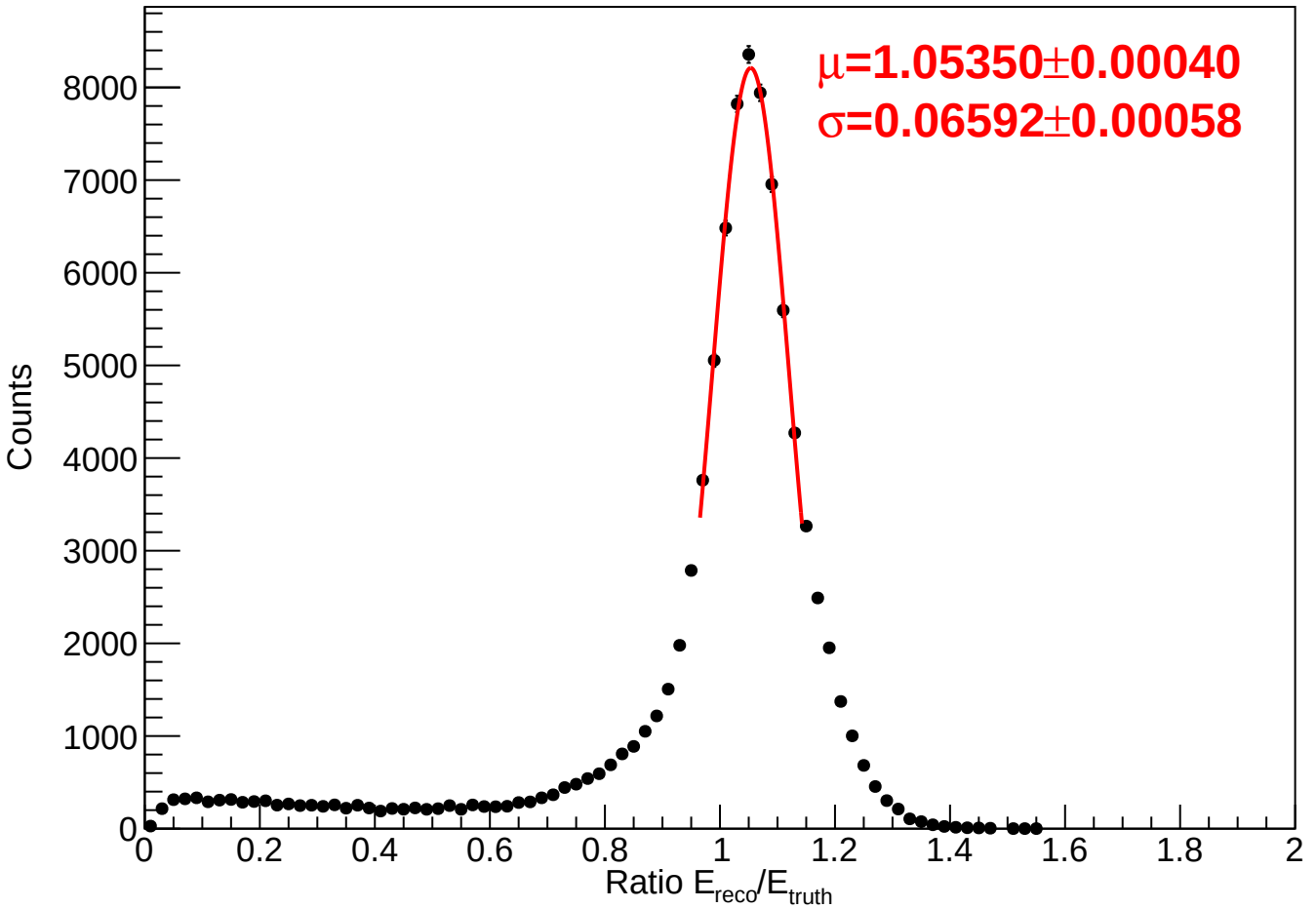

Energy Response, -1.0 η_γ ≤ η_γ < -0.8 η_γ
Counts
Ratio E_reco/E_truth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

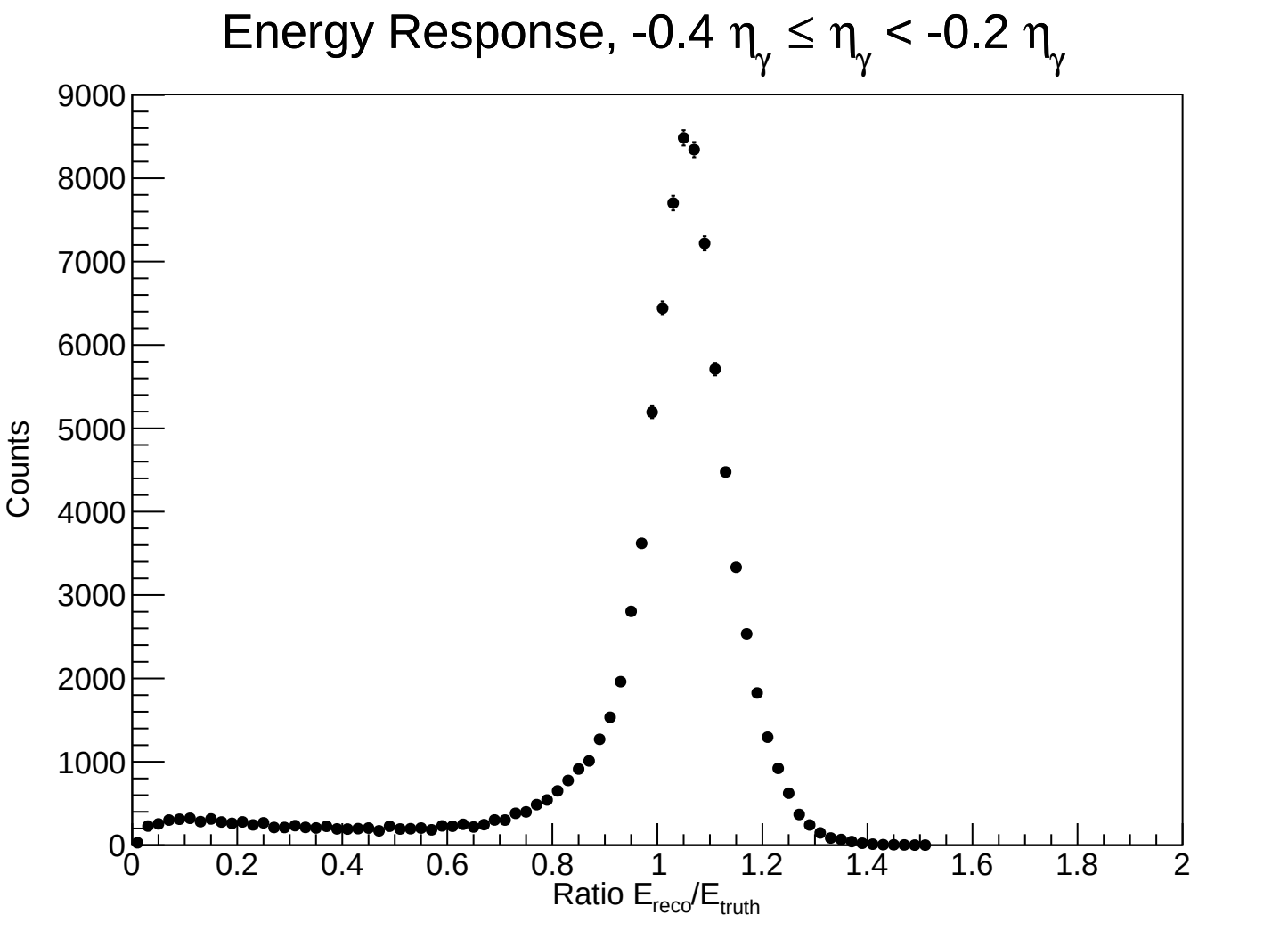

Energy Response, -1.0 η_γ ≤ η_γ < -0.8 η_γ
μ=1.05984±0.00044
σ=0.06777±0.00063
Counts
Ratio E_reco/E_truth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

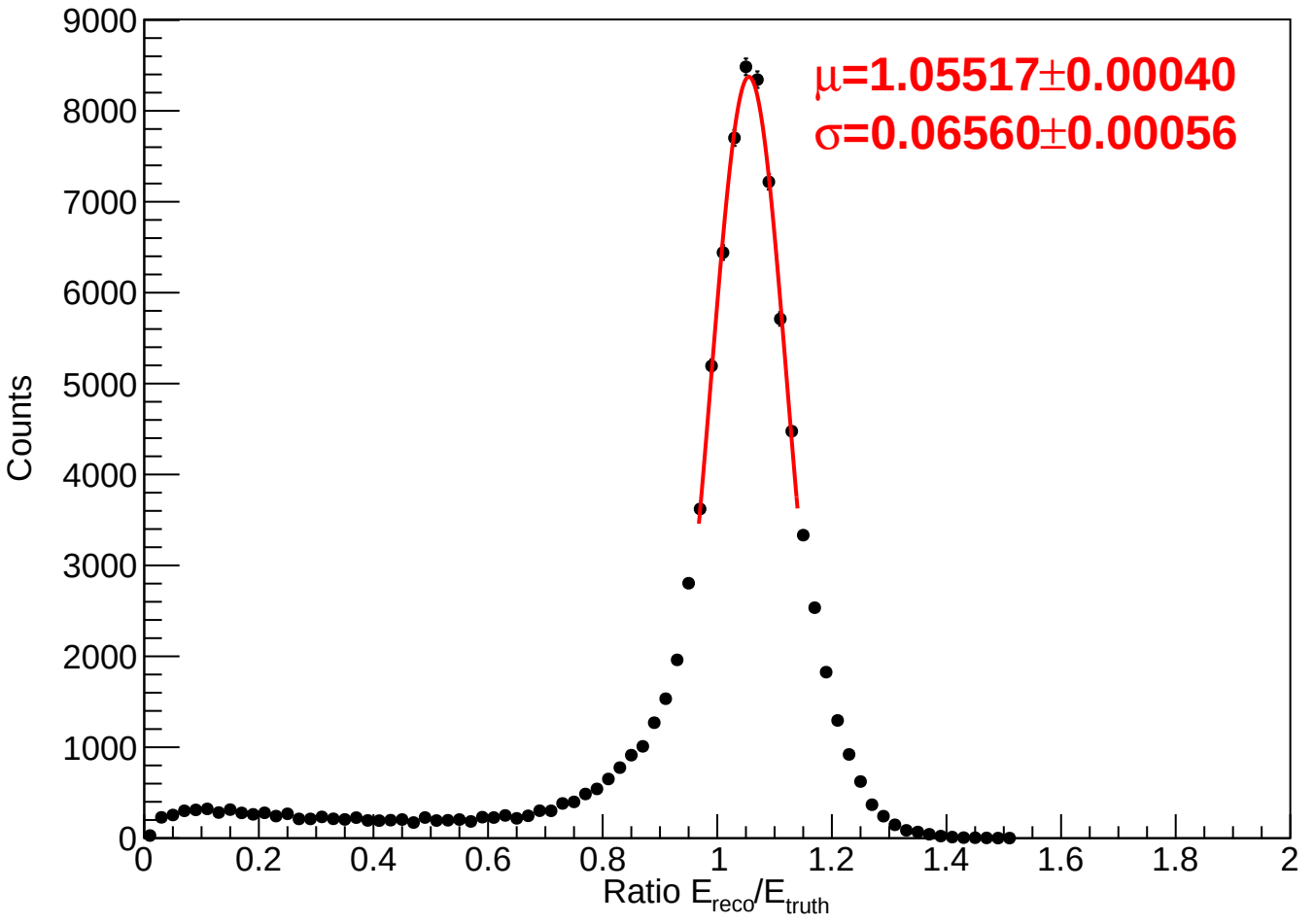

Energy Response, -0.8 η_γ ≤ η_γ < -0.6 η_γ
Counts
Ratio E_reco/E_truth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

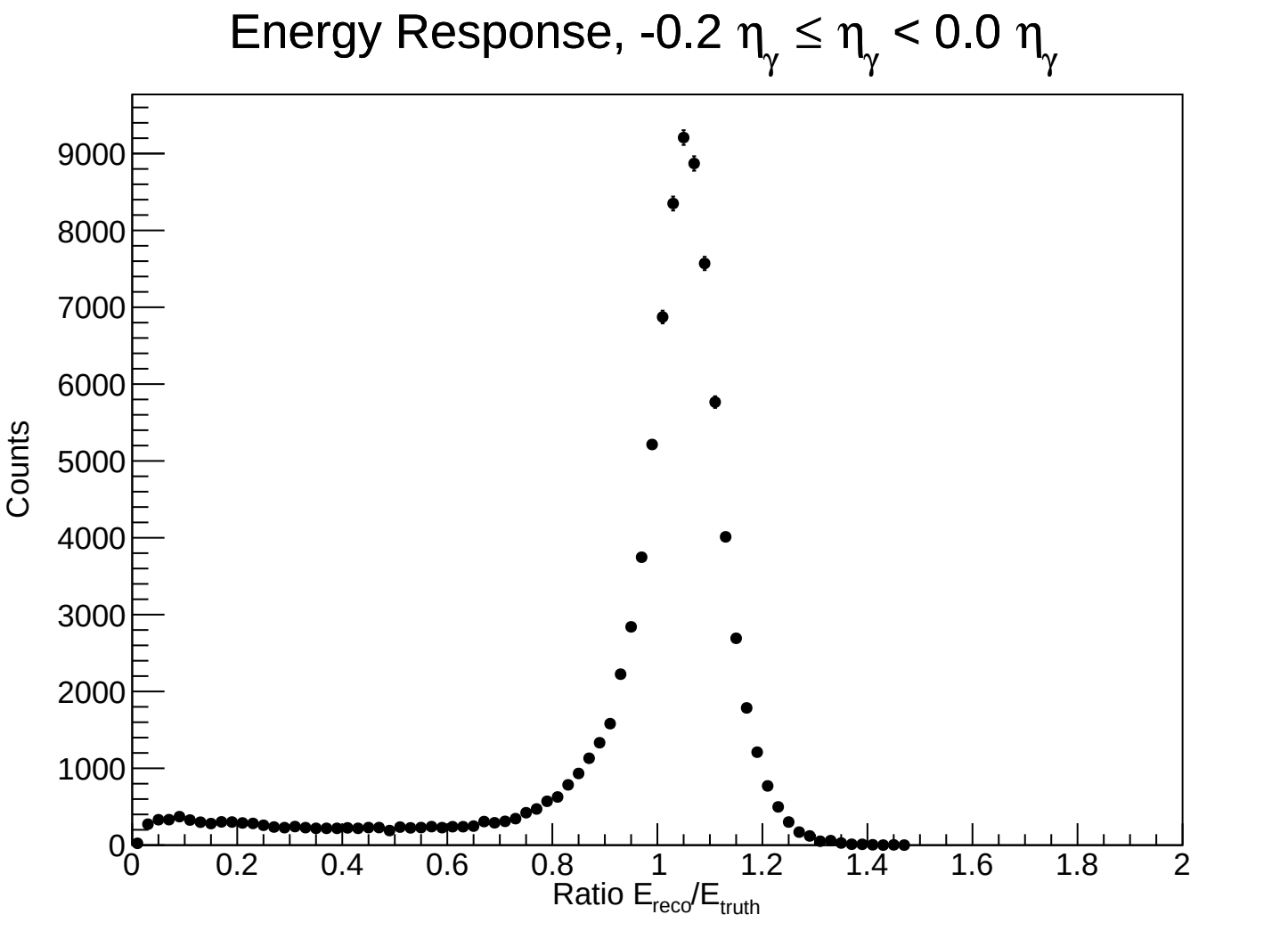

Energy Response, -0.8 η_γ ≤ η_γ < -0.6 η_γ
μ=1.05417±0.00042
σ=0.06680±0.00060
Counts
Ratio E_reco/E_truth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

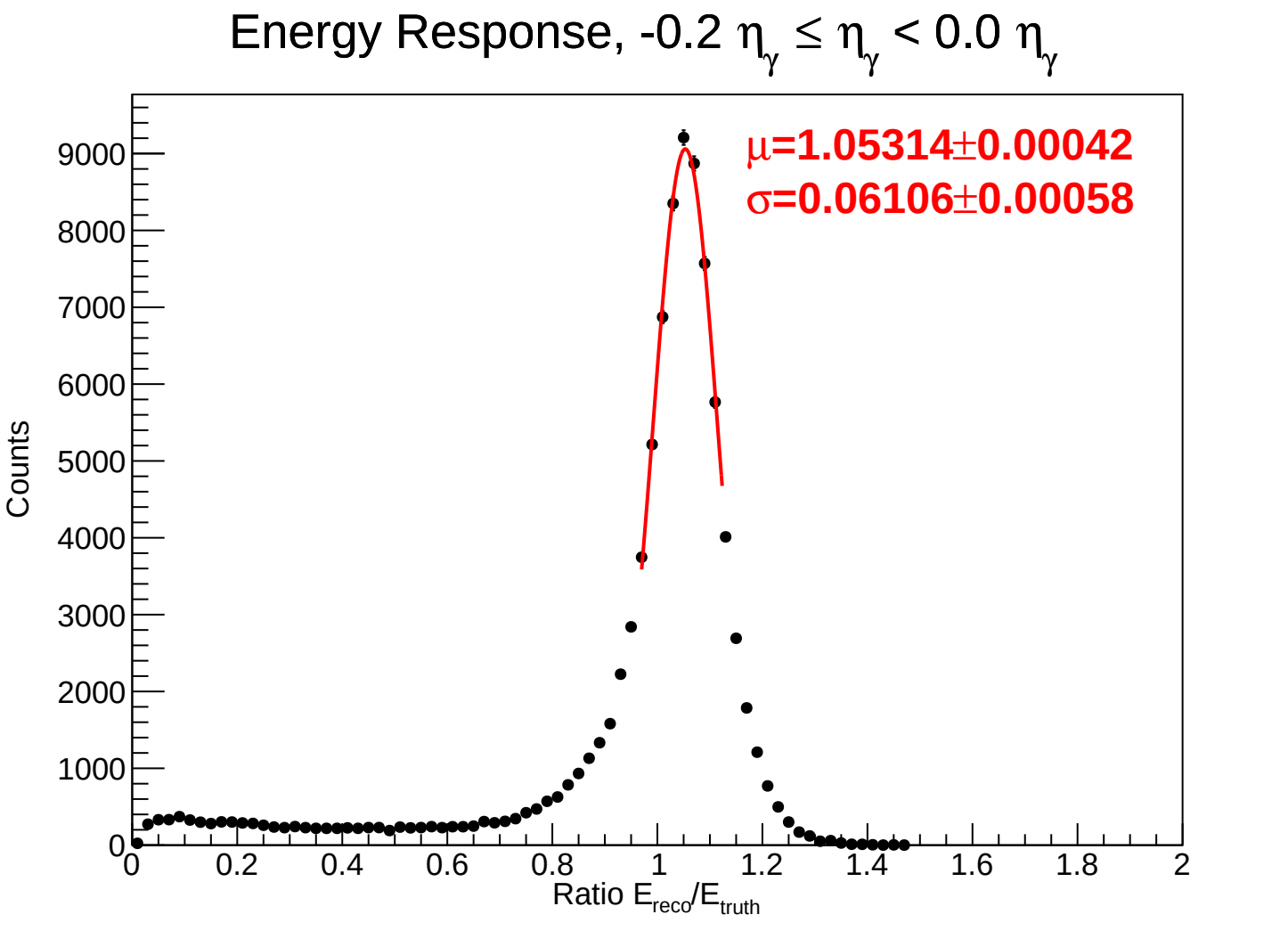

Energy Response, -0.6 η_γ ≤ η_γ < -0.4 η_γ
Counts
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio E_reco/E_truth

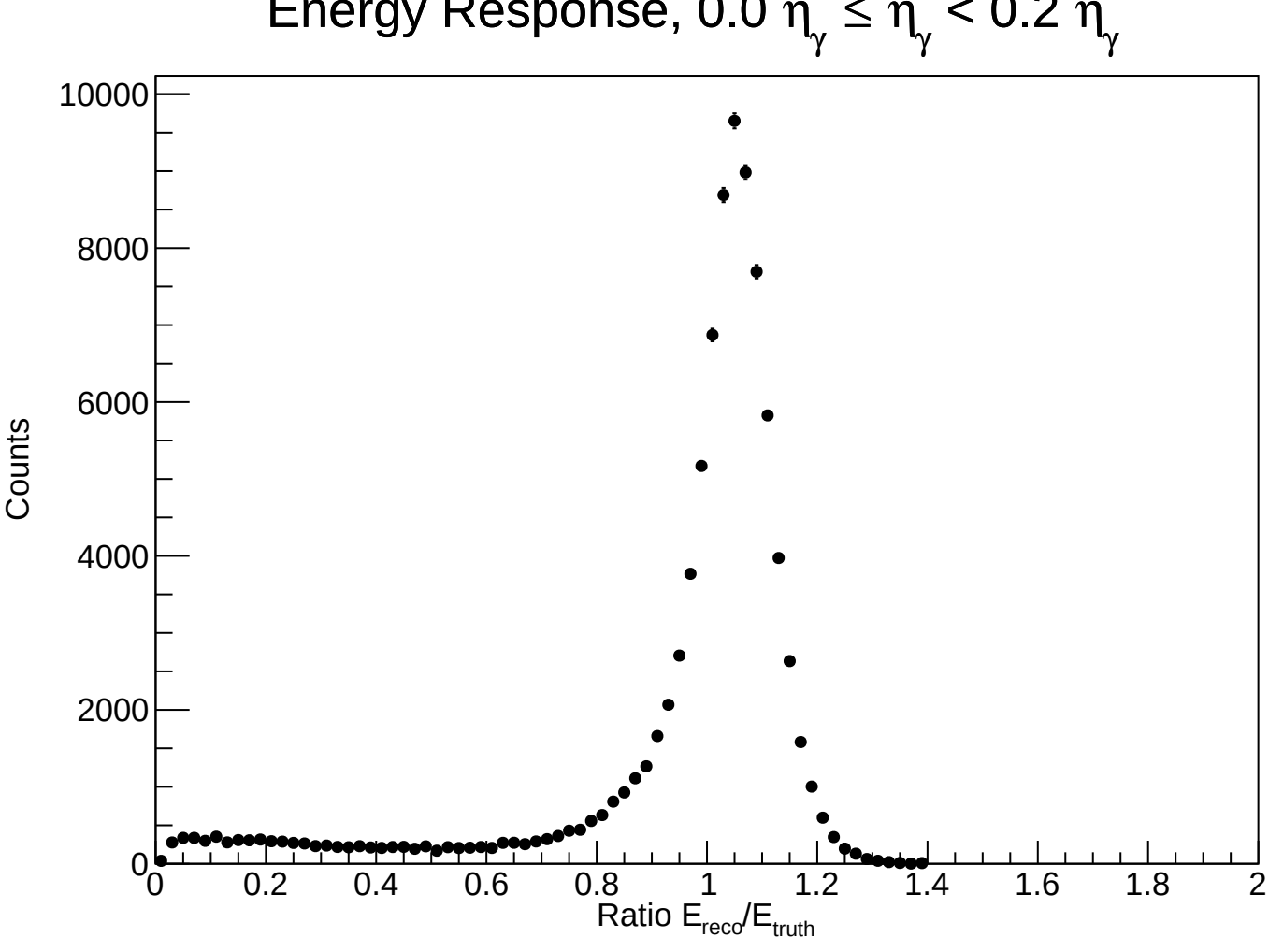

Energy Response, -0.6 η_γ ≤ η_γ < -0.4 η_γ
μ=1.05350±0.00040
σ=0.06592±0.00058
Counts
Ratio E_reco/E_truth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

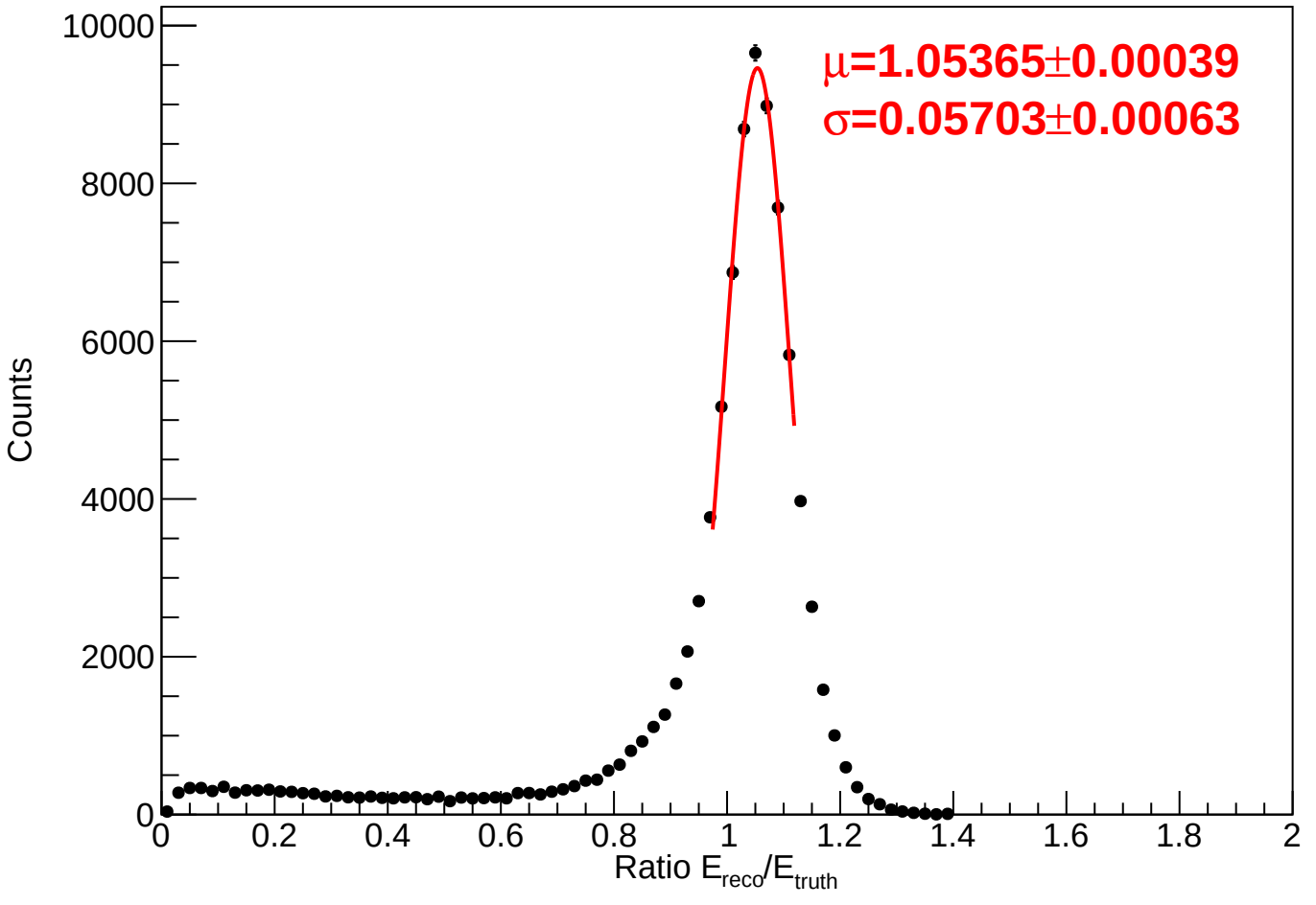

Energy Response, -0.4 η_γ ≤ η_γ < -0.2 η_γ
Counts
Ratio E_reco/E_truth
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

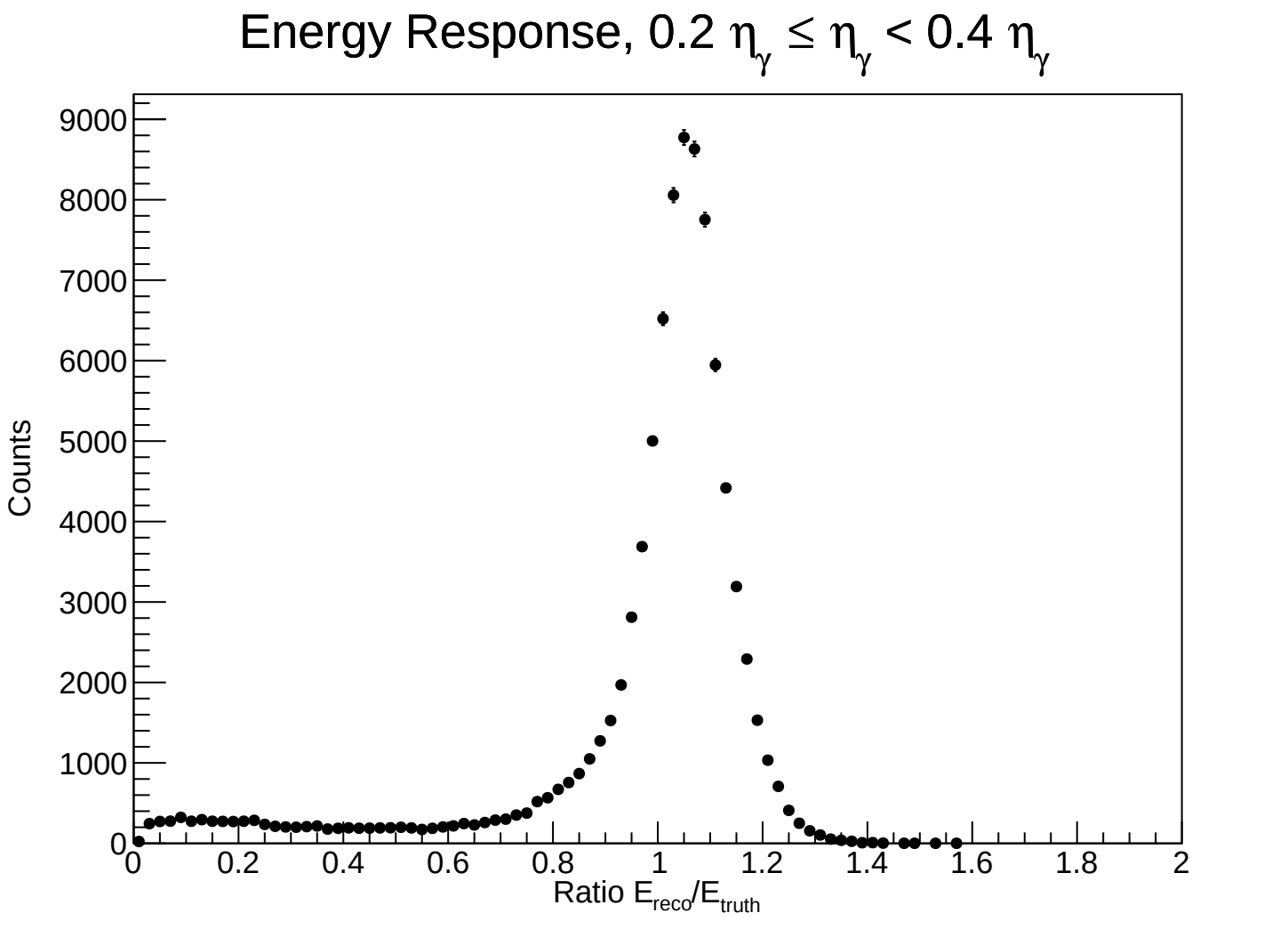

Energy Response, -0.4 η_γ ≤ η_γ < -0.2 η_γ
μ=1.05517±0.00040
σ=0.06560±0.00056
Counts
Ratio E_reco/E_truth
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

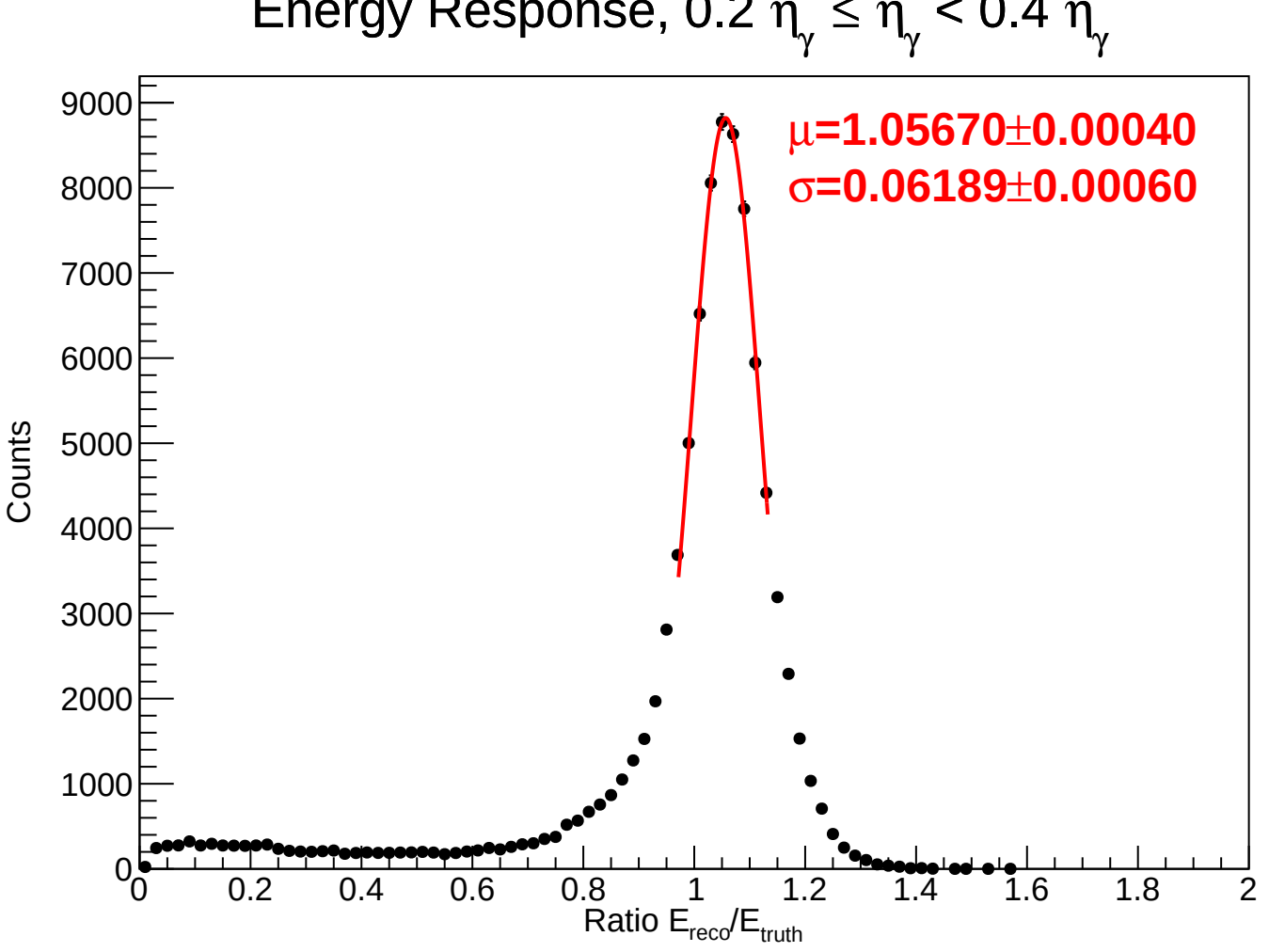

Energy Response, -0.2 η_γ ≤ η_γ < 0.0 η_γ
Counts
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio E_reco/E_truth

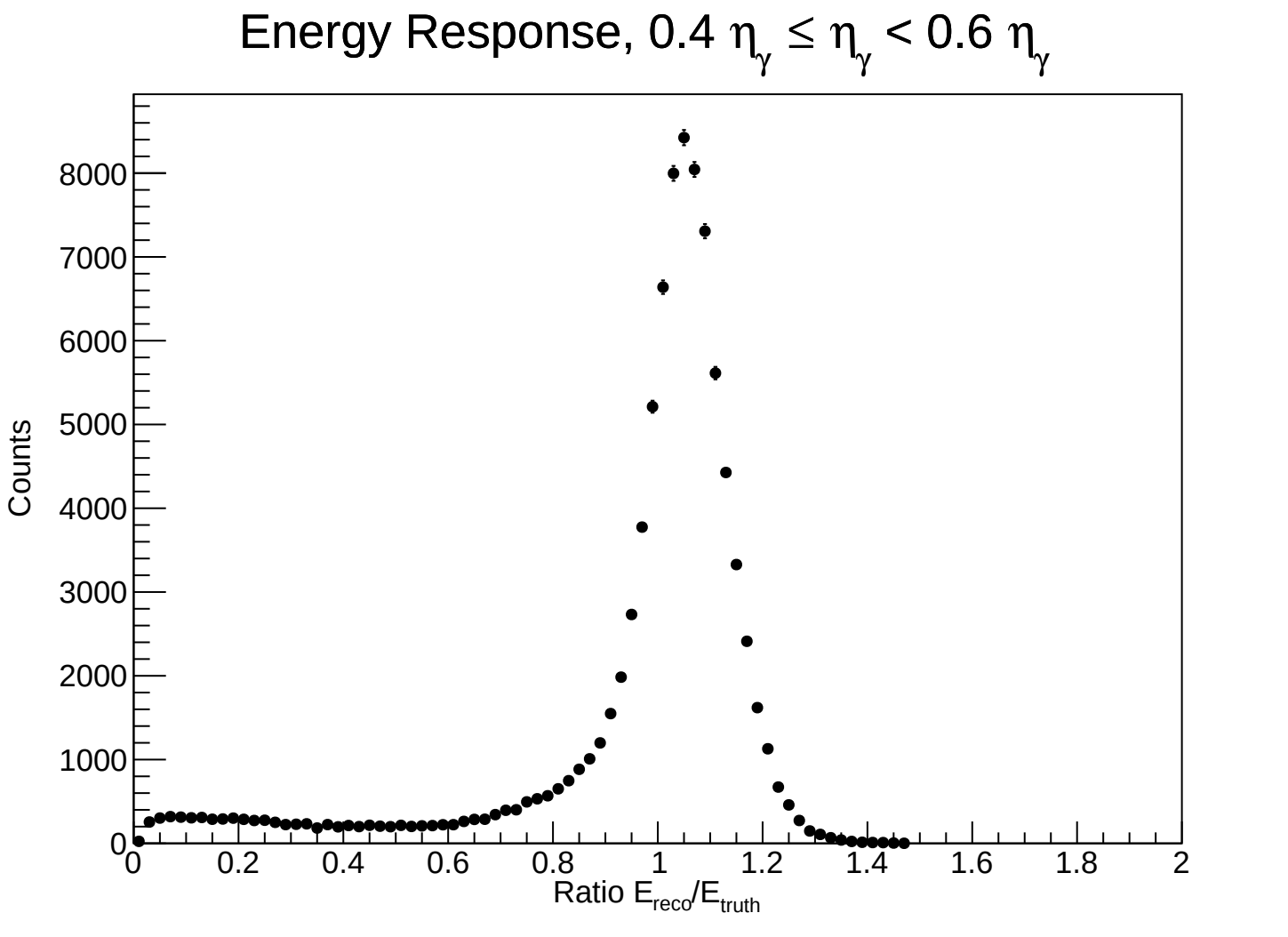

Energy Response, -0.2 η_γ ≤ η_γ < 0.0 η_γ
μ=1.05314±0.00042
σ=0.06106±0.00058
Counts
Ratio E_reco/E_truth
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

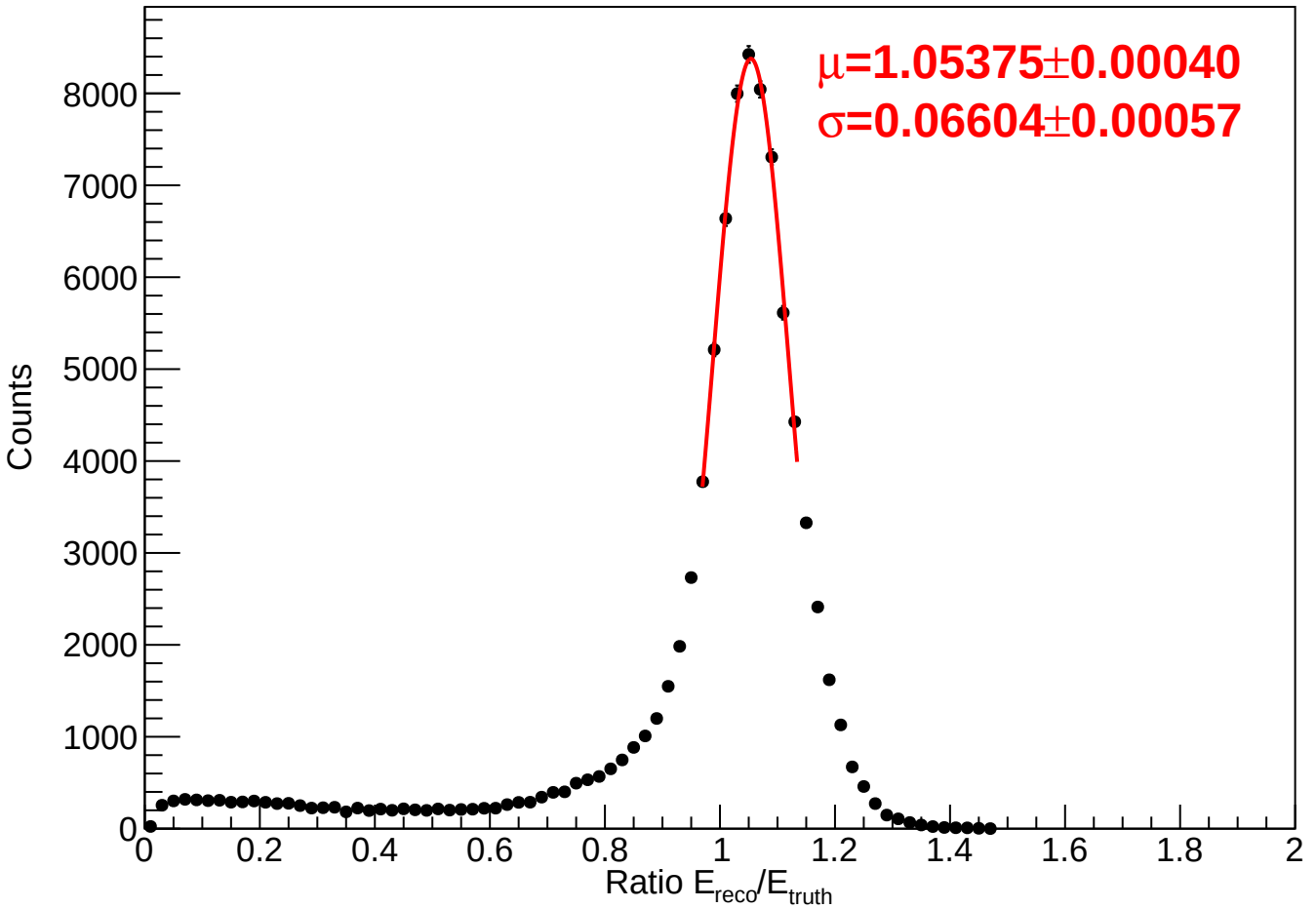

Energy Response, 0.0 $\eta_\gamma \leq \eta_\gamma < 0.2\ \eta_\gamma$
Counts
10000
8000
6000
4000
2000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio E_{reco}/E_{truth}

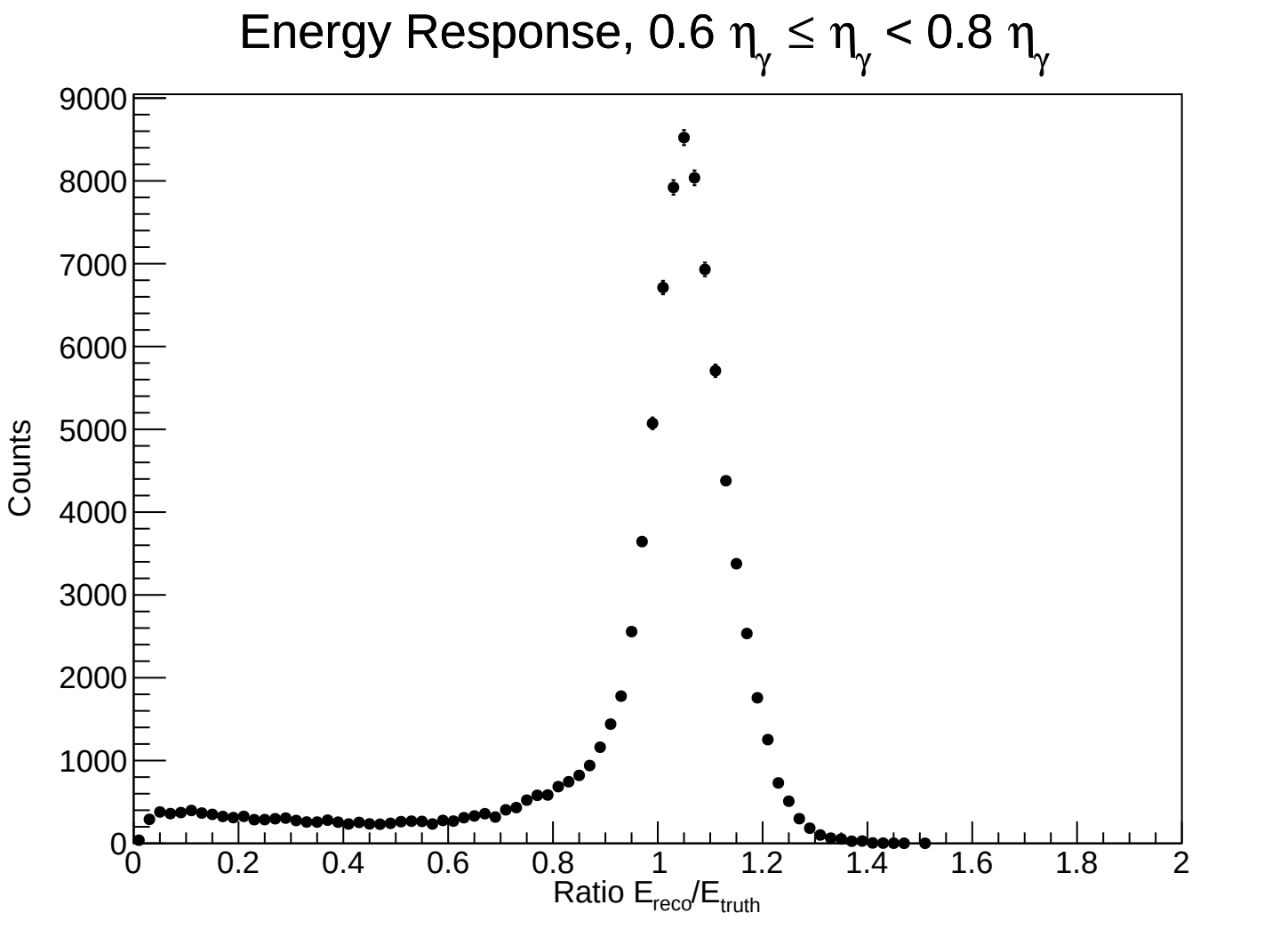

Energy Response, 0.0 η_γ ≤ η_γ < 0.2 η_γ
μ=1.05365±0.00039
σ=0.05703±0.00063
Counts
Ratio E_reco/E_truth
0
2000
4000
6000
8000
10000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

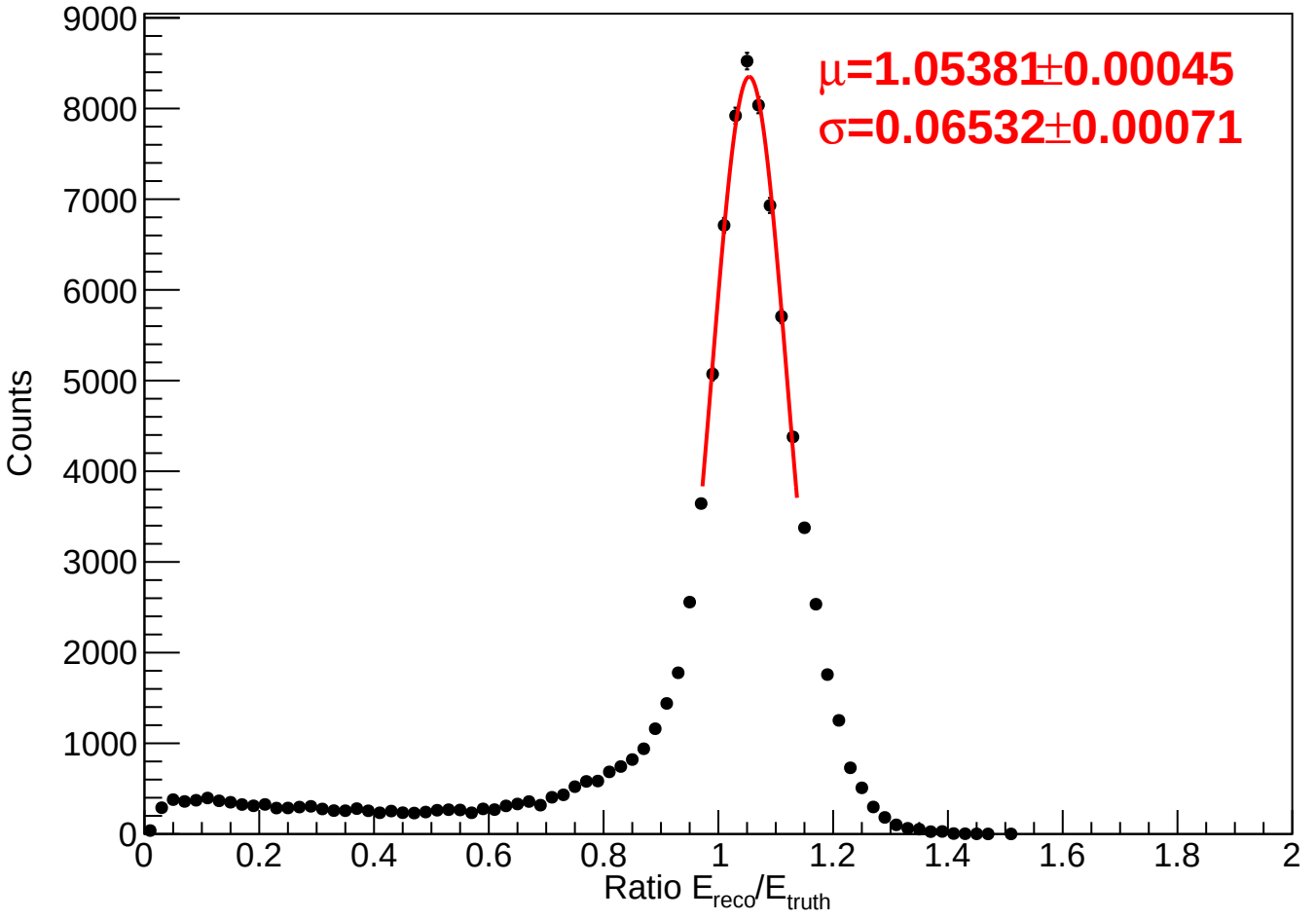

Energy Response, 0.2 η_γ ≤ η_γ < 0.4 η_γ
Counts
Ratio E_reco/E_truth
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

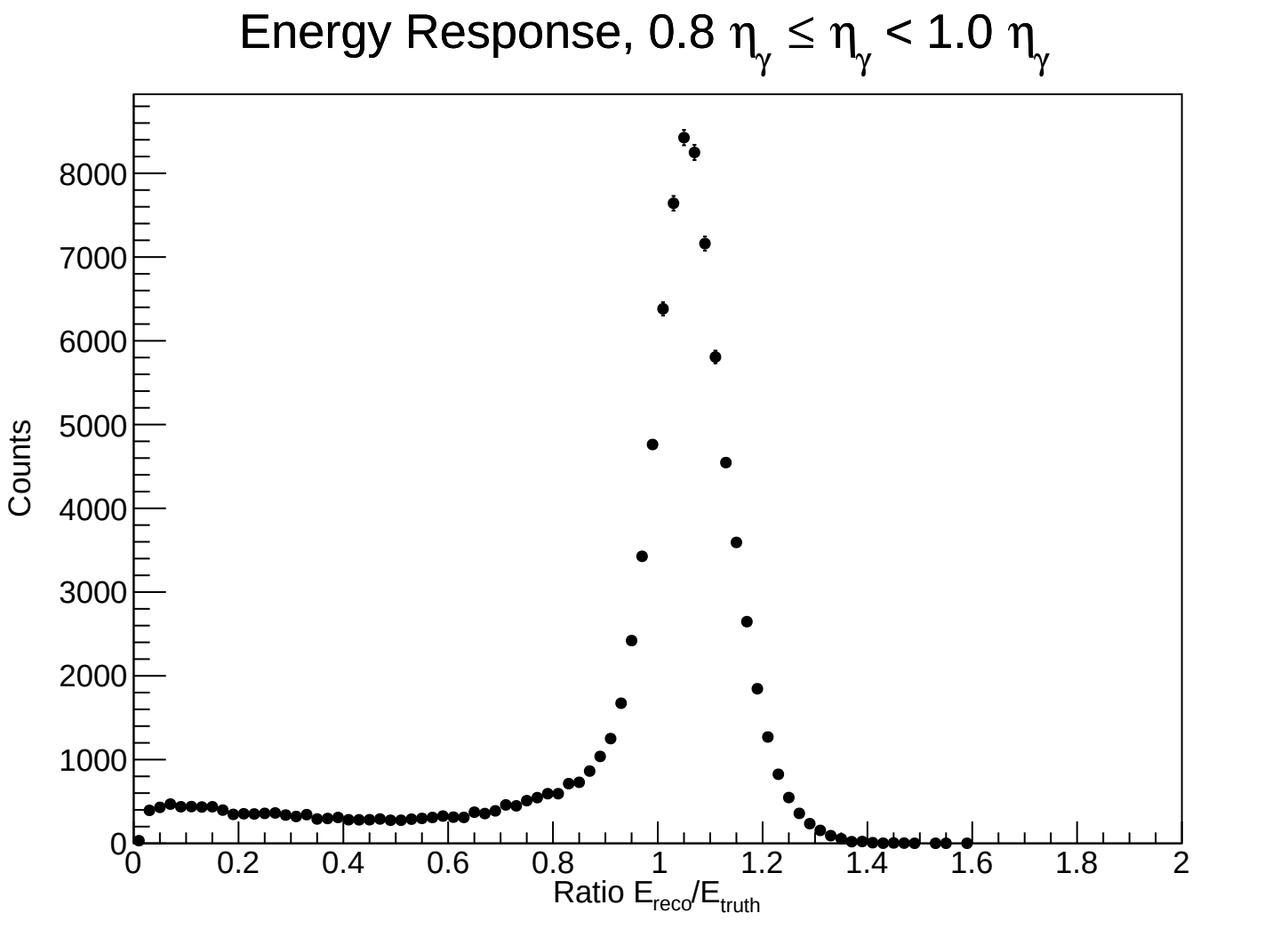

Energy Response, 0.2 η_γ ≤ η_γ < 0.4 η_γ
μ=1.05670±0.00040
σ=0.06189±0.00060
Counts
Ratio E_reco/E_truth
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

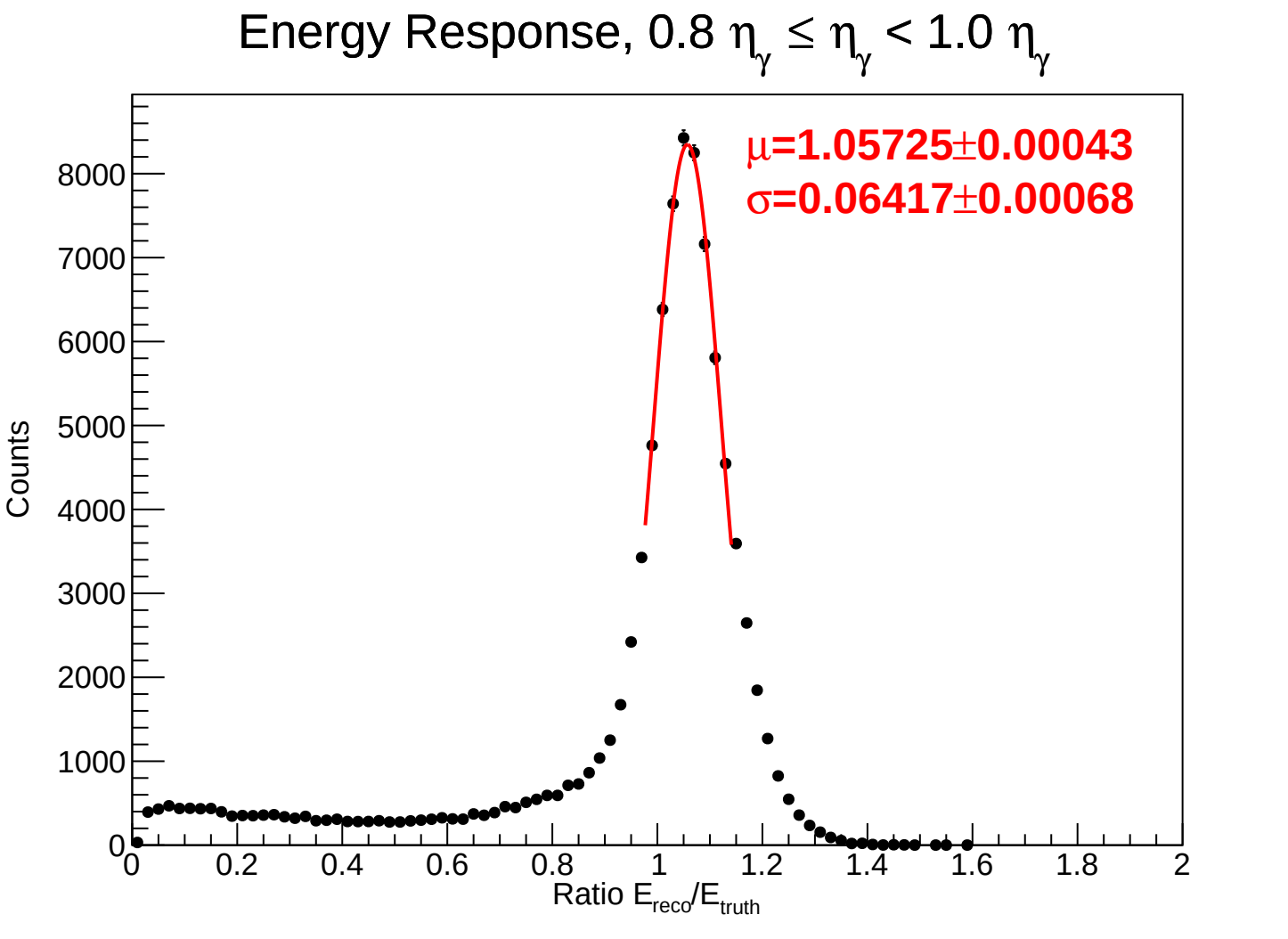

Energy Response, 0.4 η_γ ≤ η_γ < 0.6 η_γ
Counts
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio E_reco/E_truth

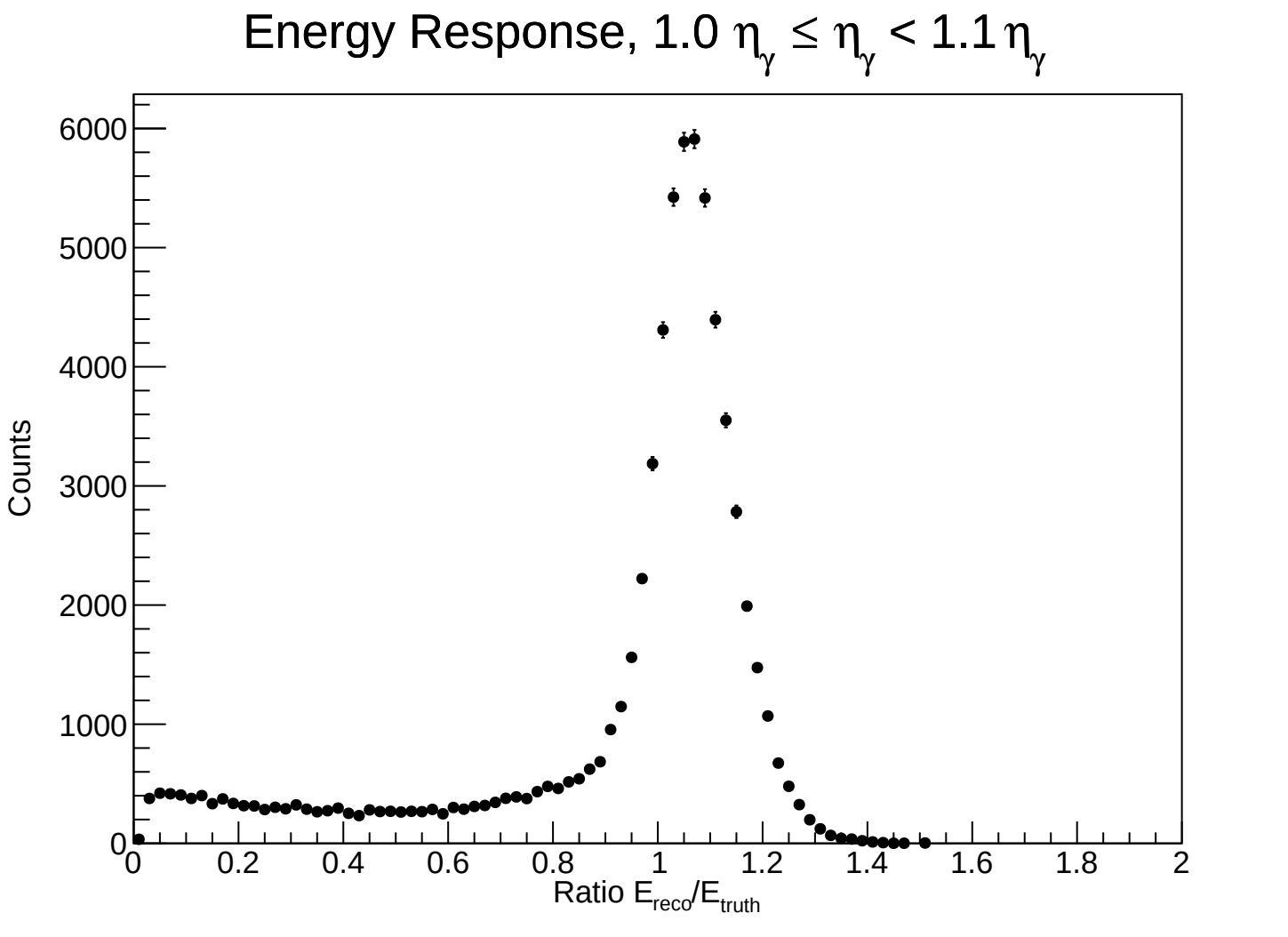

Energy Response, 0.4 η_γ ≤ η_γ < 0.6 η_γ
μ=1.05375±0.00040
σ=0.06604±0.00057
Counts
Ratio E_reco/E_truth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

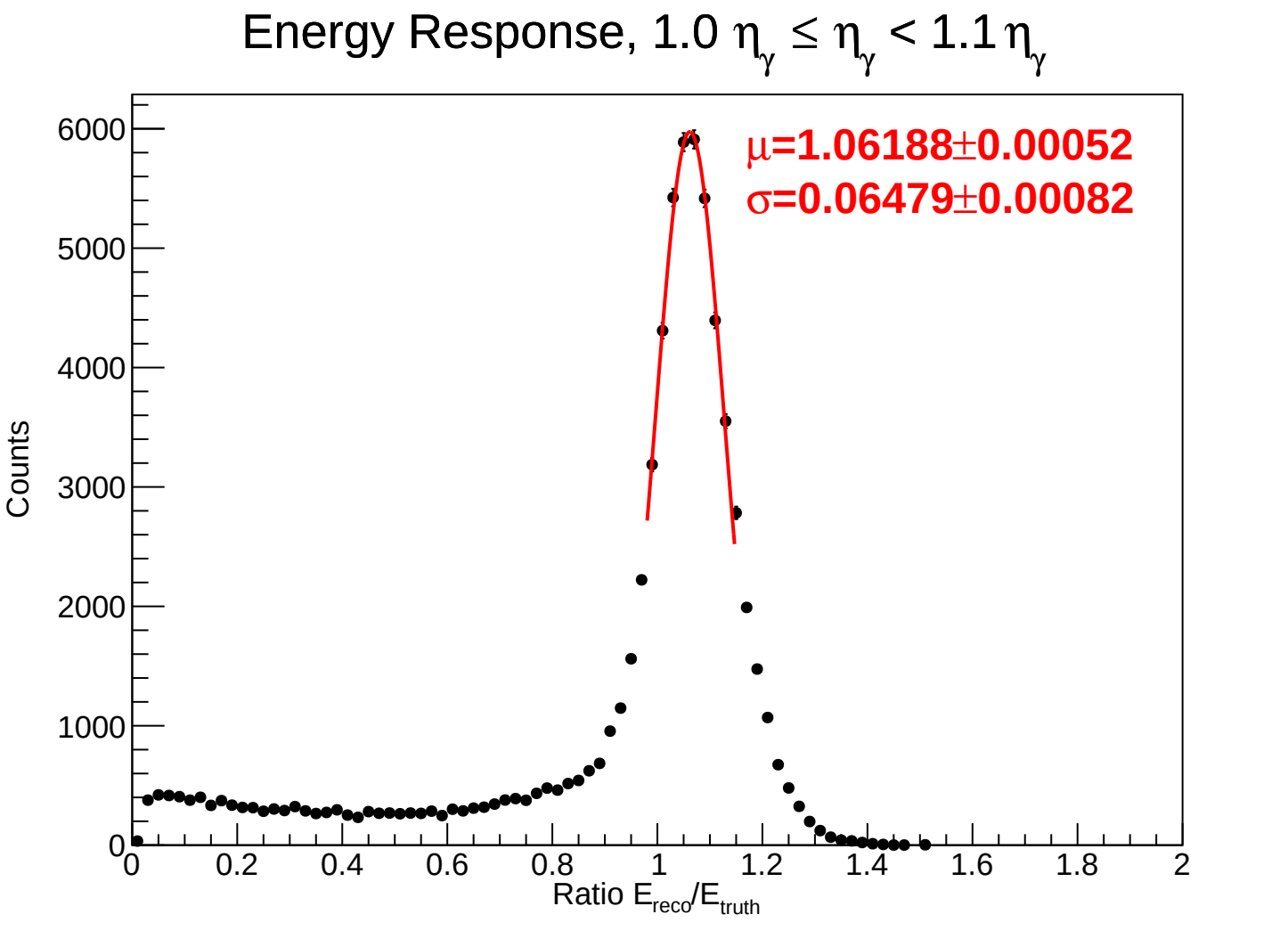

Energy Response, 0.6 η_γ ≤ η_γ < 0.8 η_γ
Counts
Ratio E_reco/E_truth
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

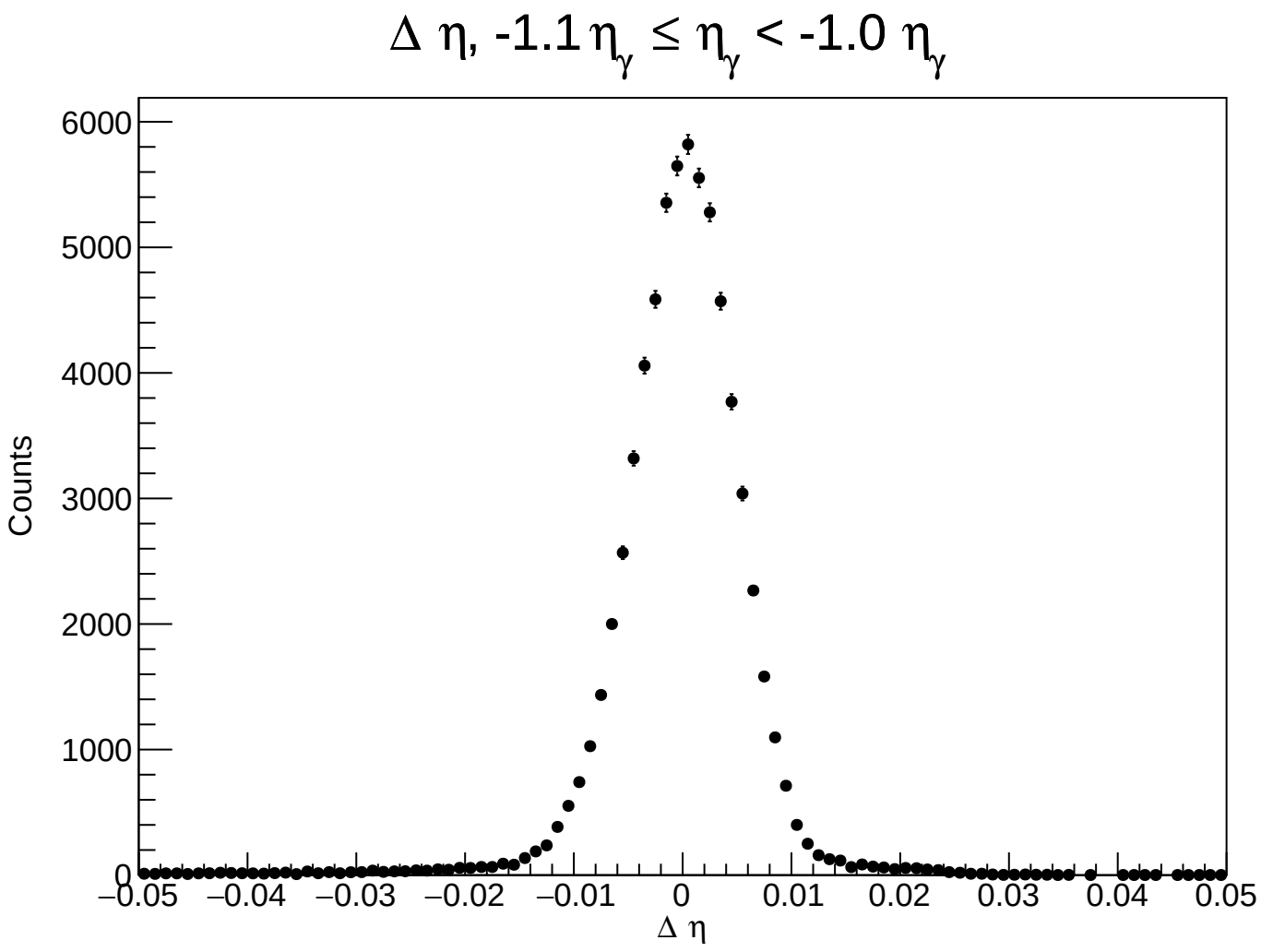

Energy Response, 0.6 η_γ ≤ η_γ < 0.8 η_γ
μ=1.05381±0.00045
σ=0.06532±0.00071
Counts
Ratio E_reco/E_truth
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

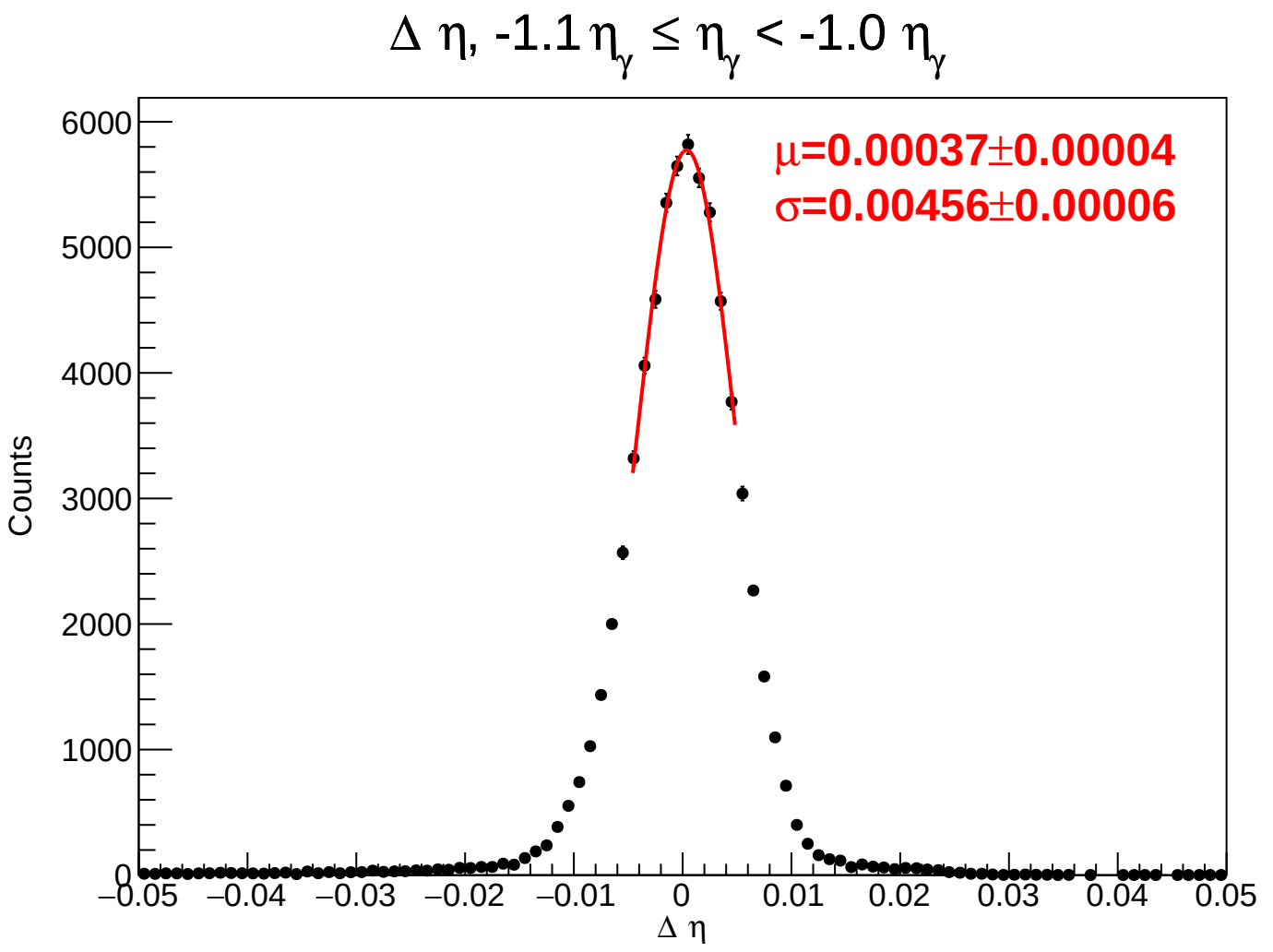

Energy Response, 0.8 η_γ ≤ η_γ < 1.0 η_γ
Counts
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio E_reco/E_truth

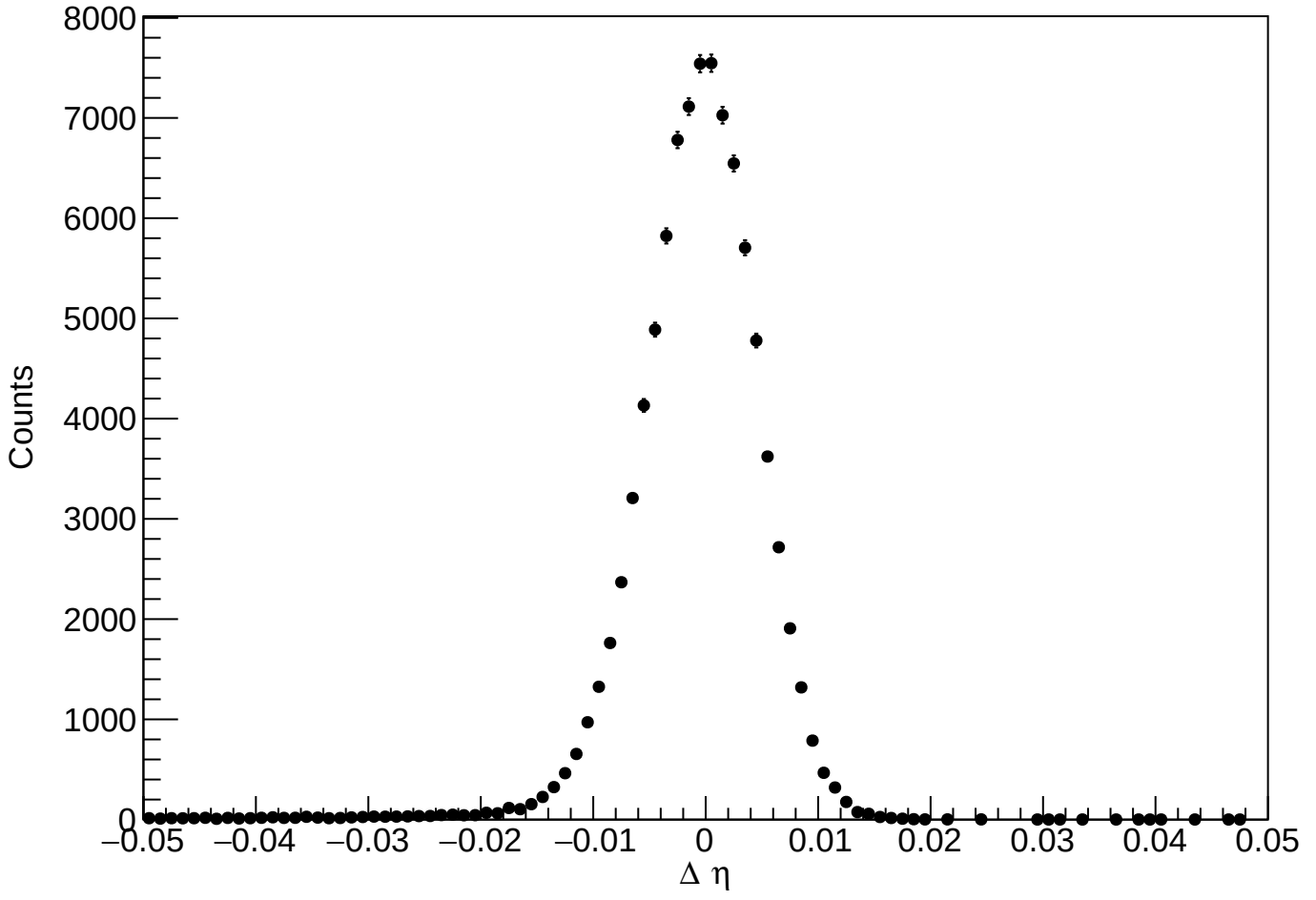

Energy Response, 0.8 η_γ ≤ η_γ < 1.0 η_γ
μ=1.05725±0.00043
σ=0.06417±0.00068
Counts
Ratio E_reco/E_truth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

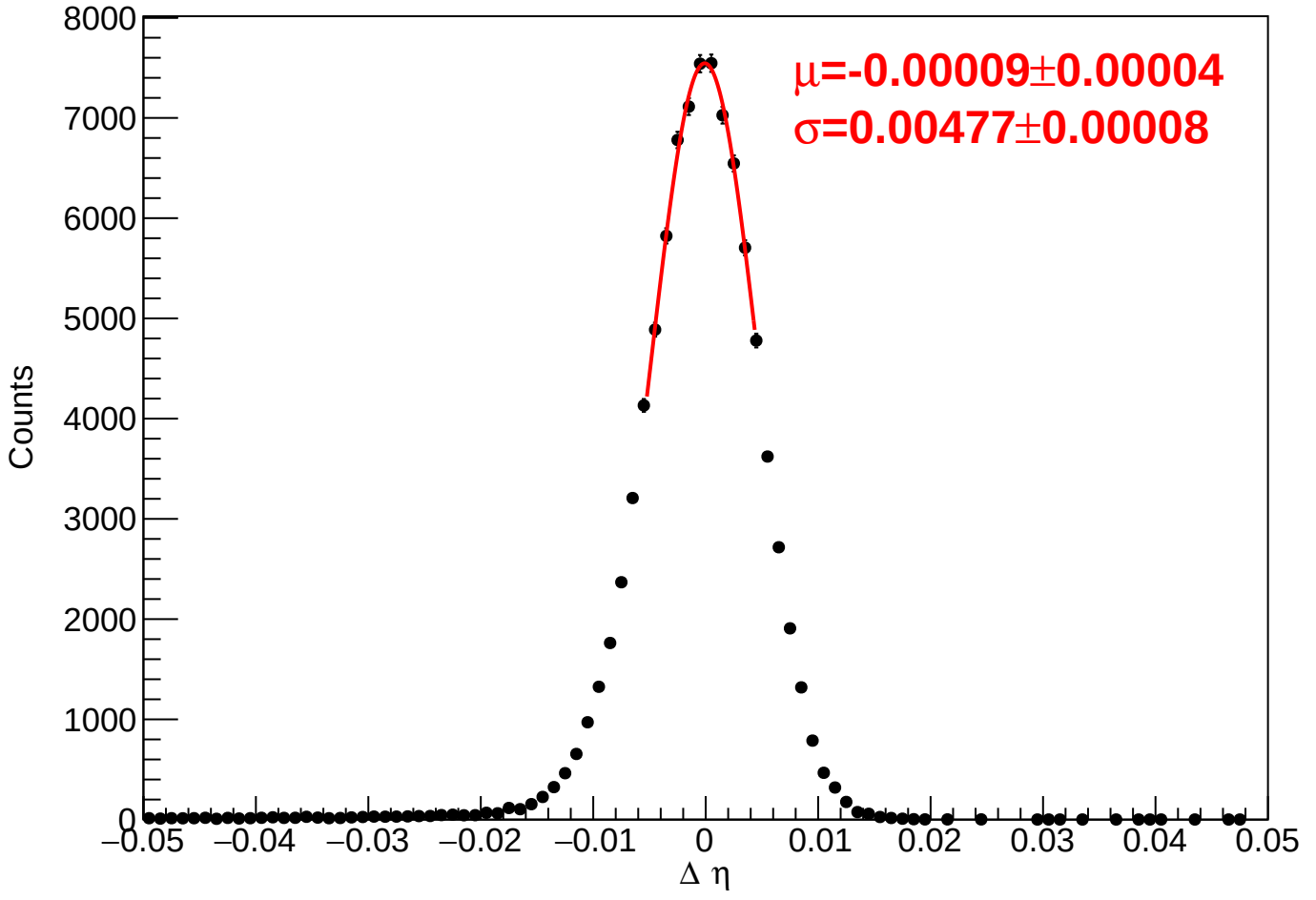

Energy Response, 1.0 η_γ ≤ η_γ < 1.1 η_γ
Counts
Ratio E_reco/E_truth
0
1000
2000
3000
4000
5000
6000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

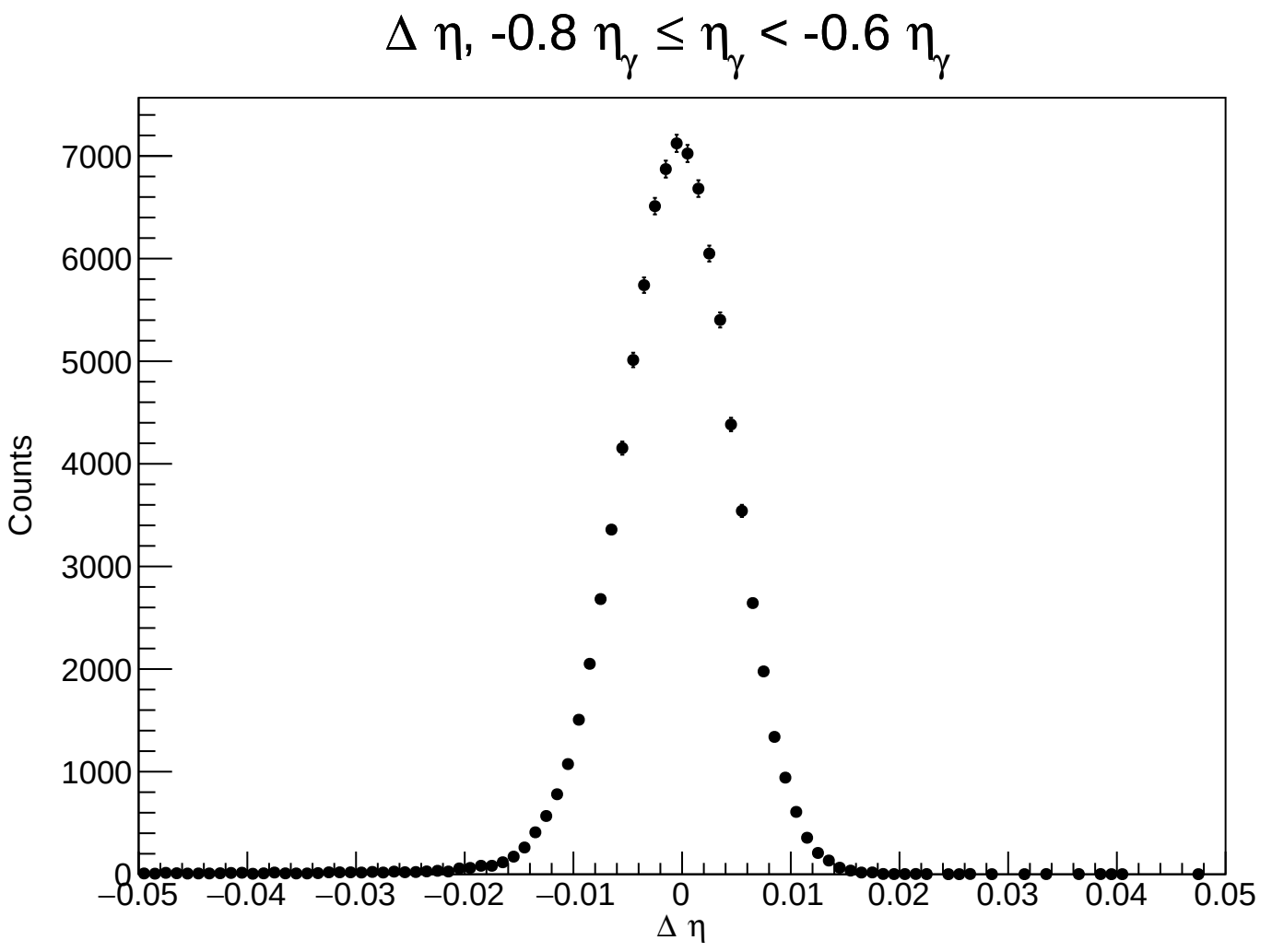

Energy Response, 1.0 η_γ ≤ η_γ < 1.1 η_γ
μ=1.06188±0.00052
σ=0.06479±0.00082
Counts
Ratio E_reco/E_truth
0
1000
2000
3000
4000
5000
6000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

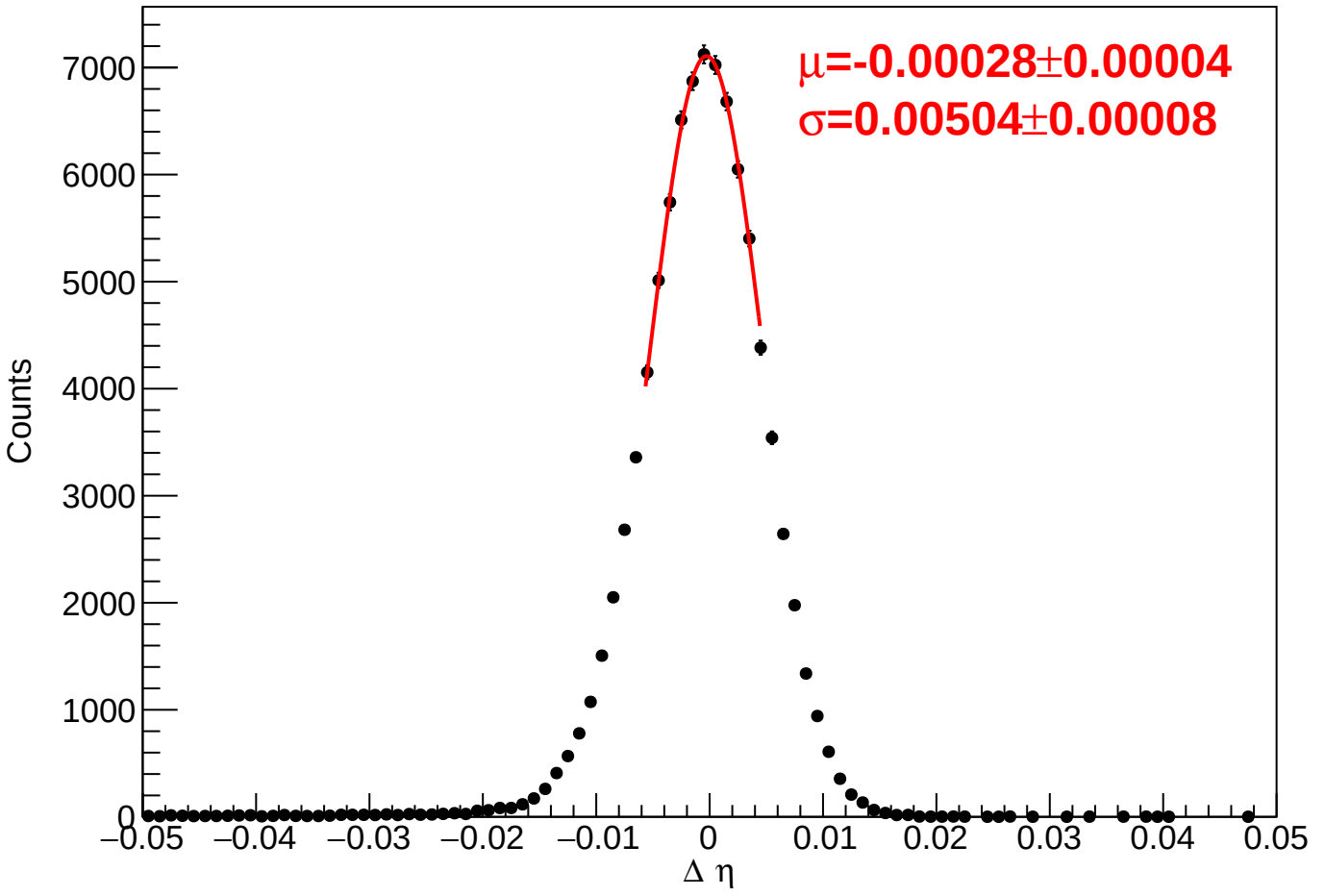

Δ η, -1.1 η_γ ≤ η_γ < -1.0 η_γ
Counts
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

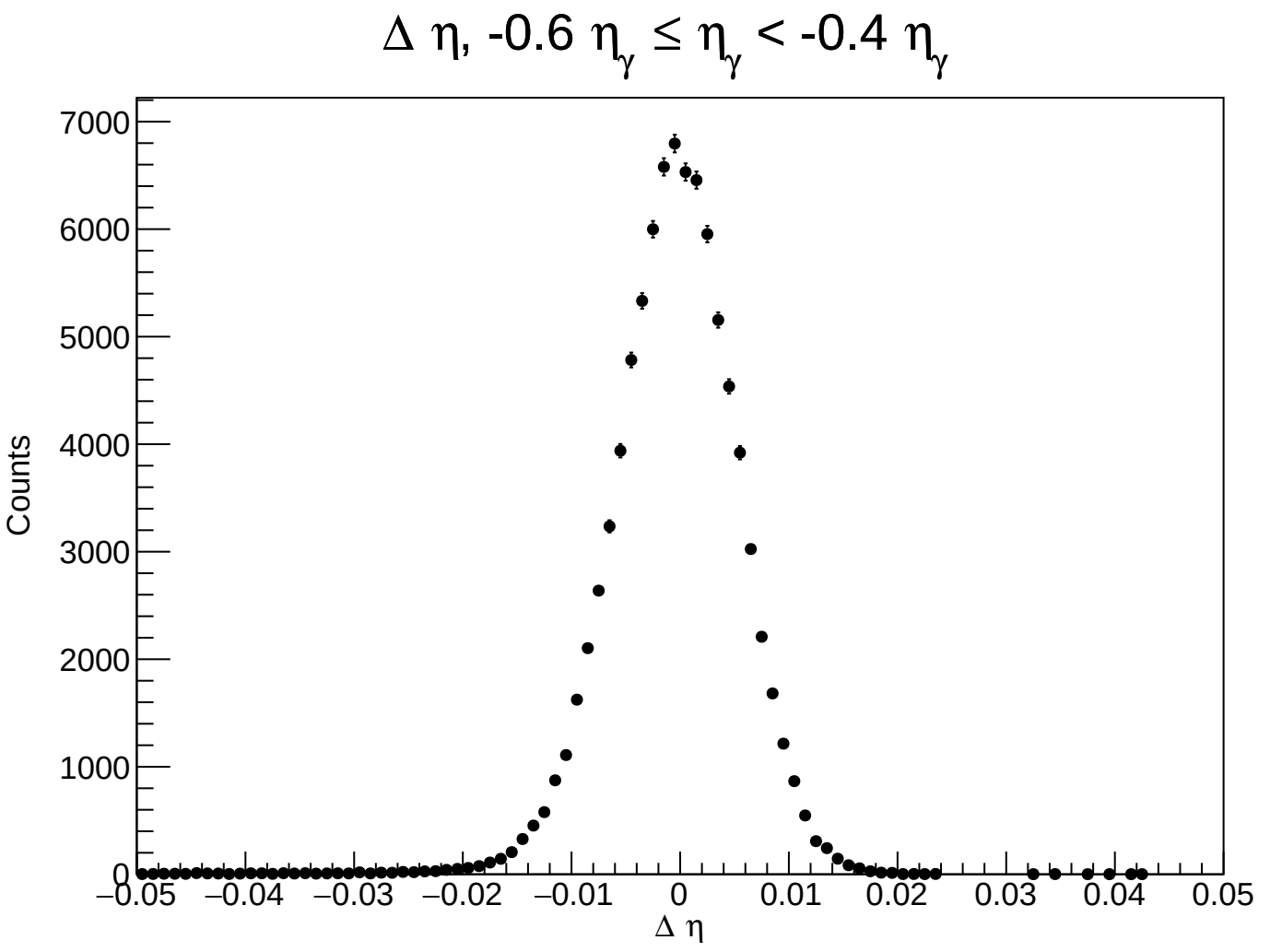

Δ η, -1.1 η_γ ≤ η_γ < -1.0 η_γ
μ=0.00037±0.00004
σ=0.00456±0.00006
Counts
Δ η
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

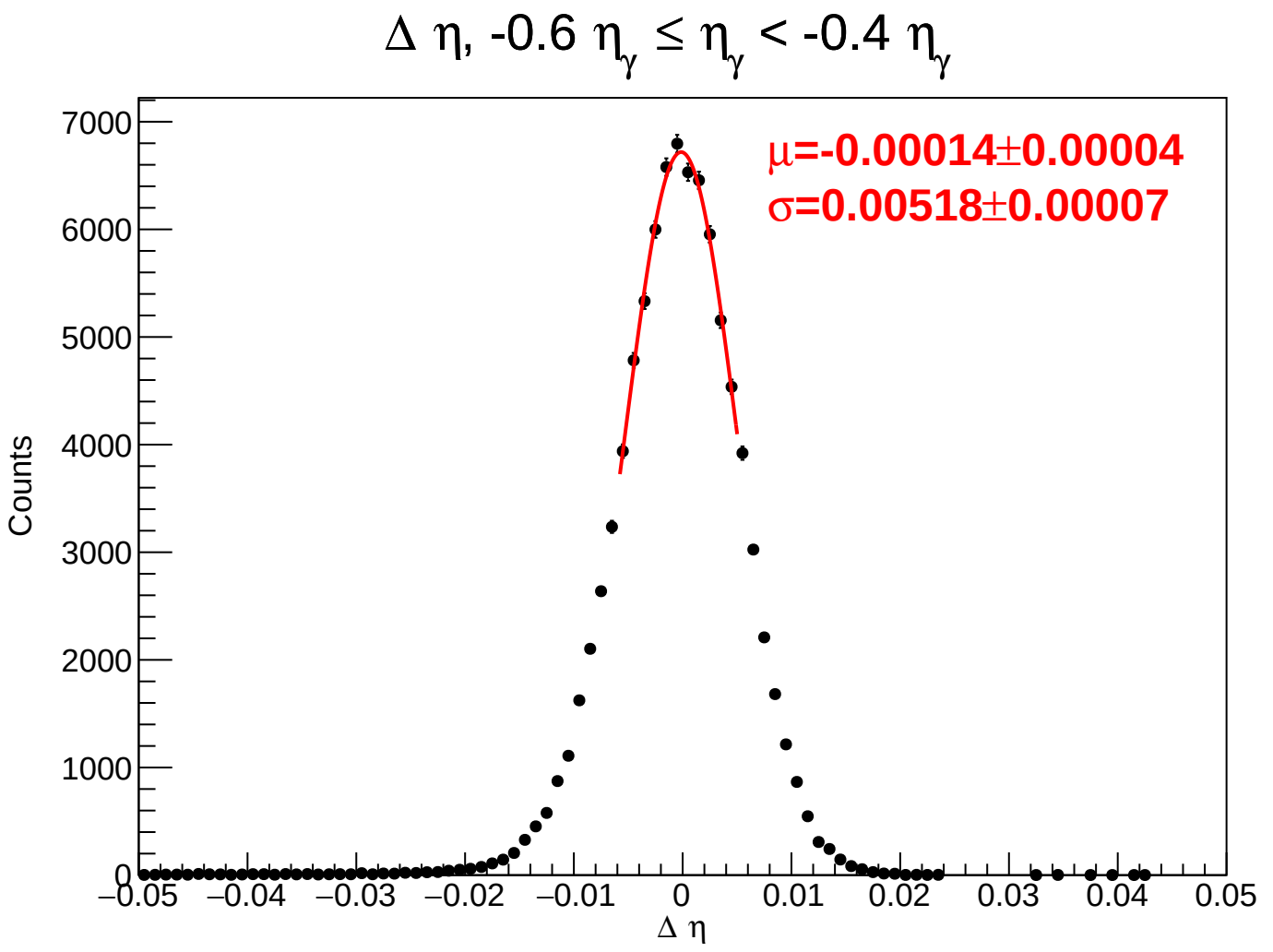

Δ η, -1.0 η_γ ≤ η_γ < -0.8 η_γ
Counts
8000
7000
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

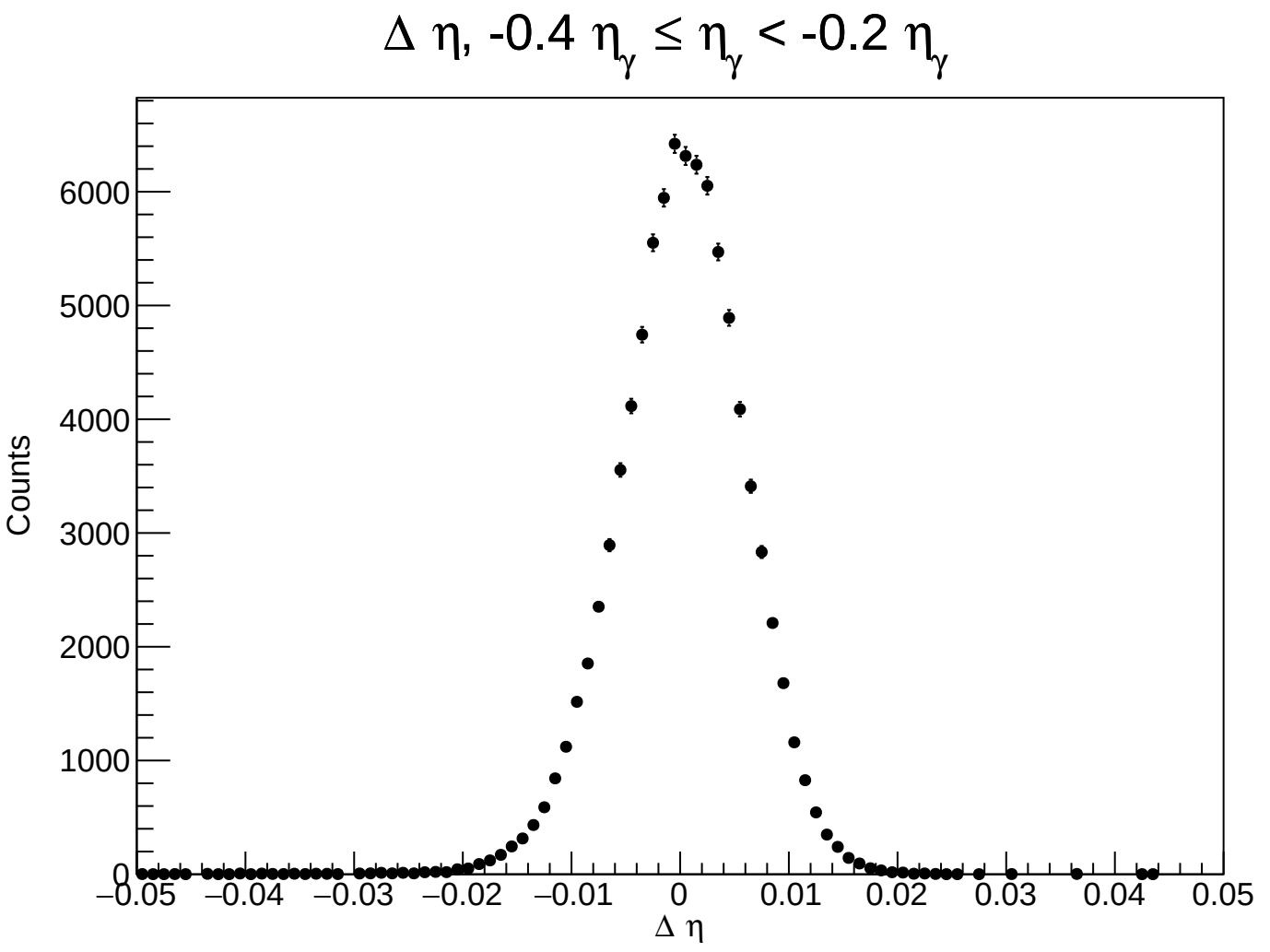

Δ η, -1.0 η_γ ≤ η_γ < -0.8 η_γ
μ=-0.00009±0.00004
σ=0.00477±0.00008
Counts
Δ η
8000
7000
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

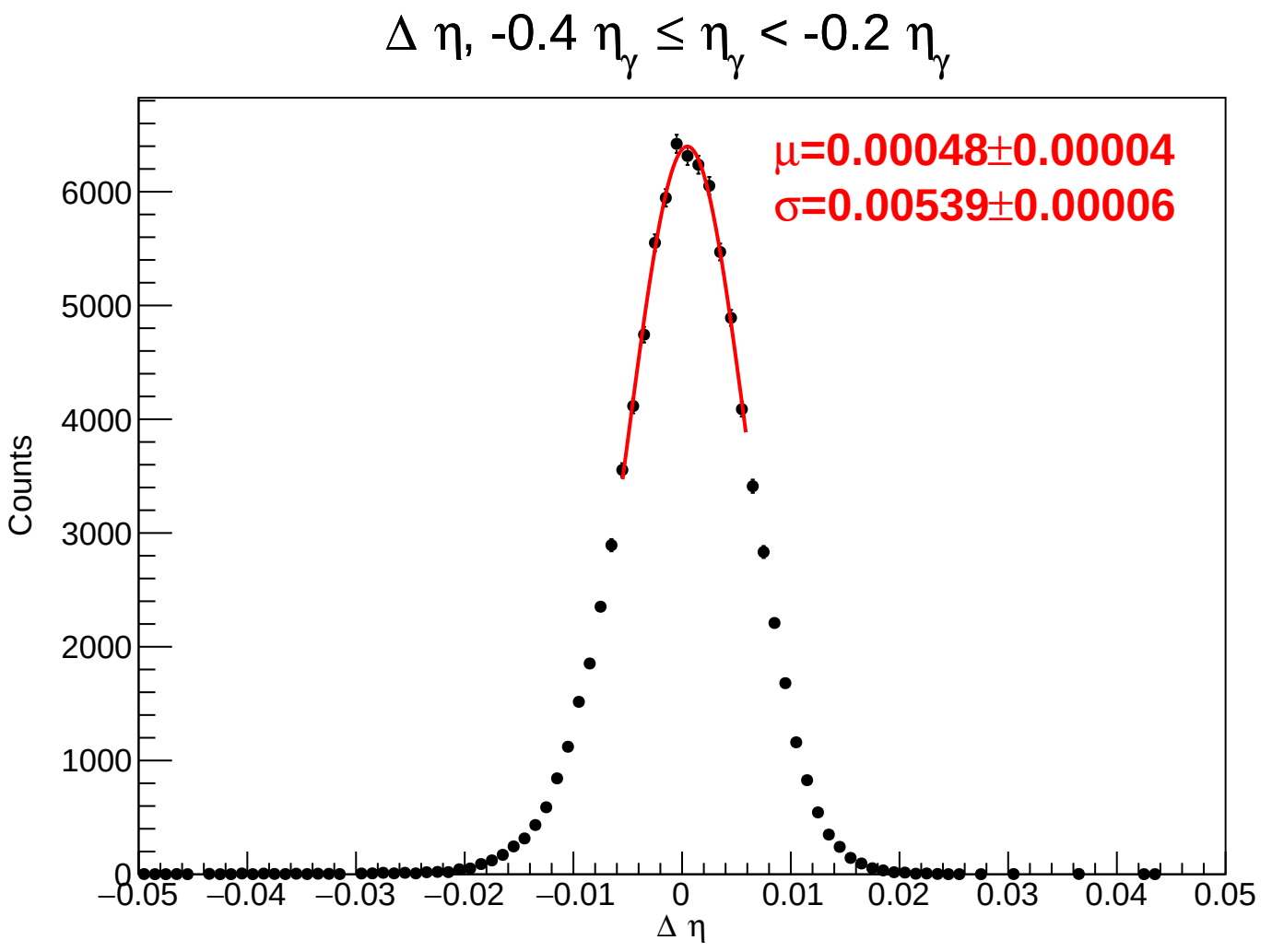

Δ η, -0.8 η_γ ≤ η_γ < -0.6 η_γ
Counts
7000
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

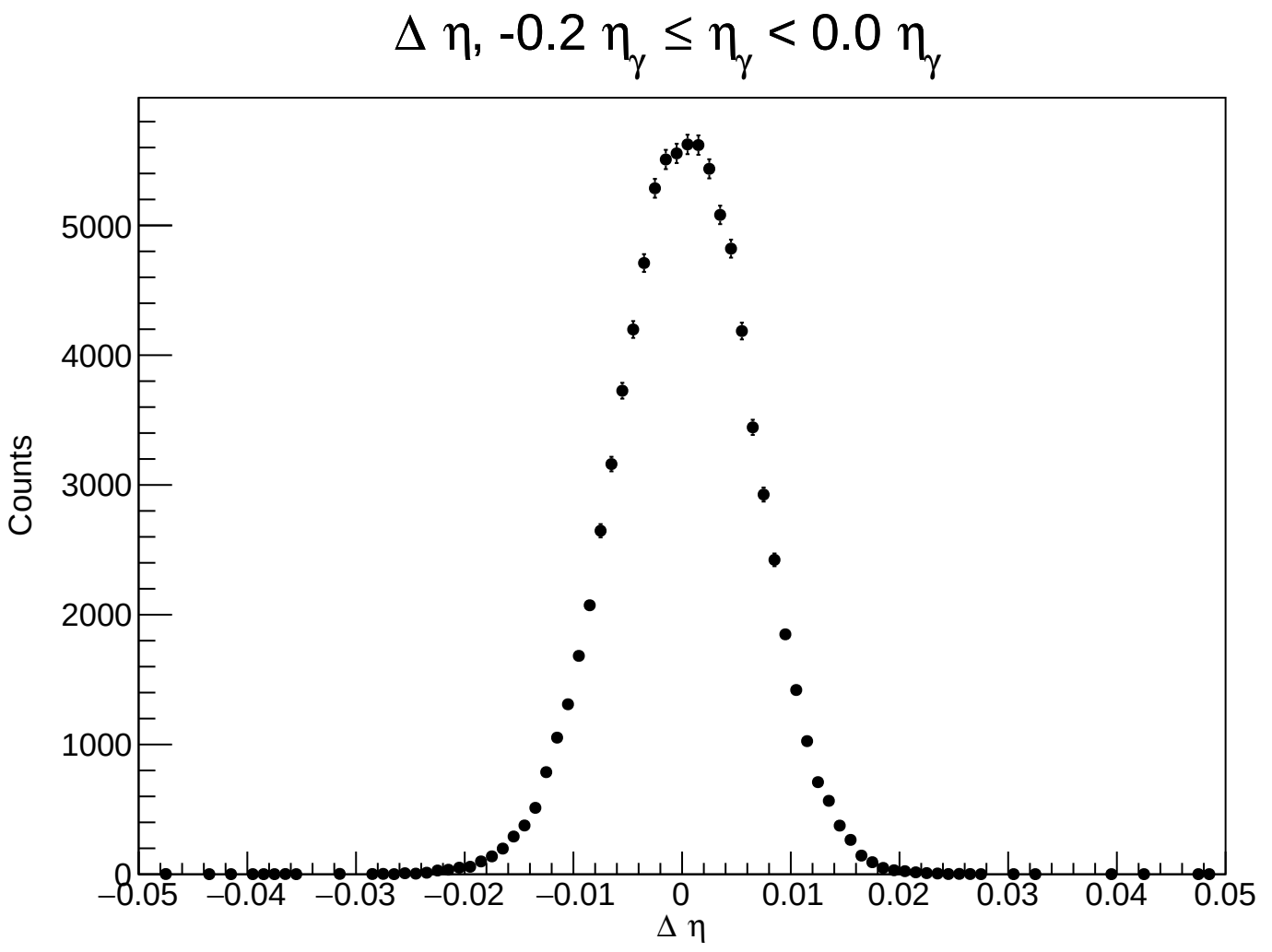

Δ η, -0.8 η_γ ≤ η_γ < -0.6 η_γ
μ=-0.00028±0.00004
σ=0.00504±0.00008
Counts
Δ η
7000
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

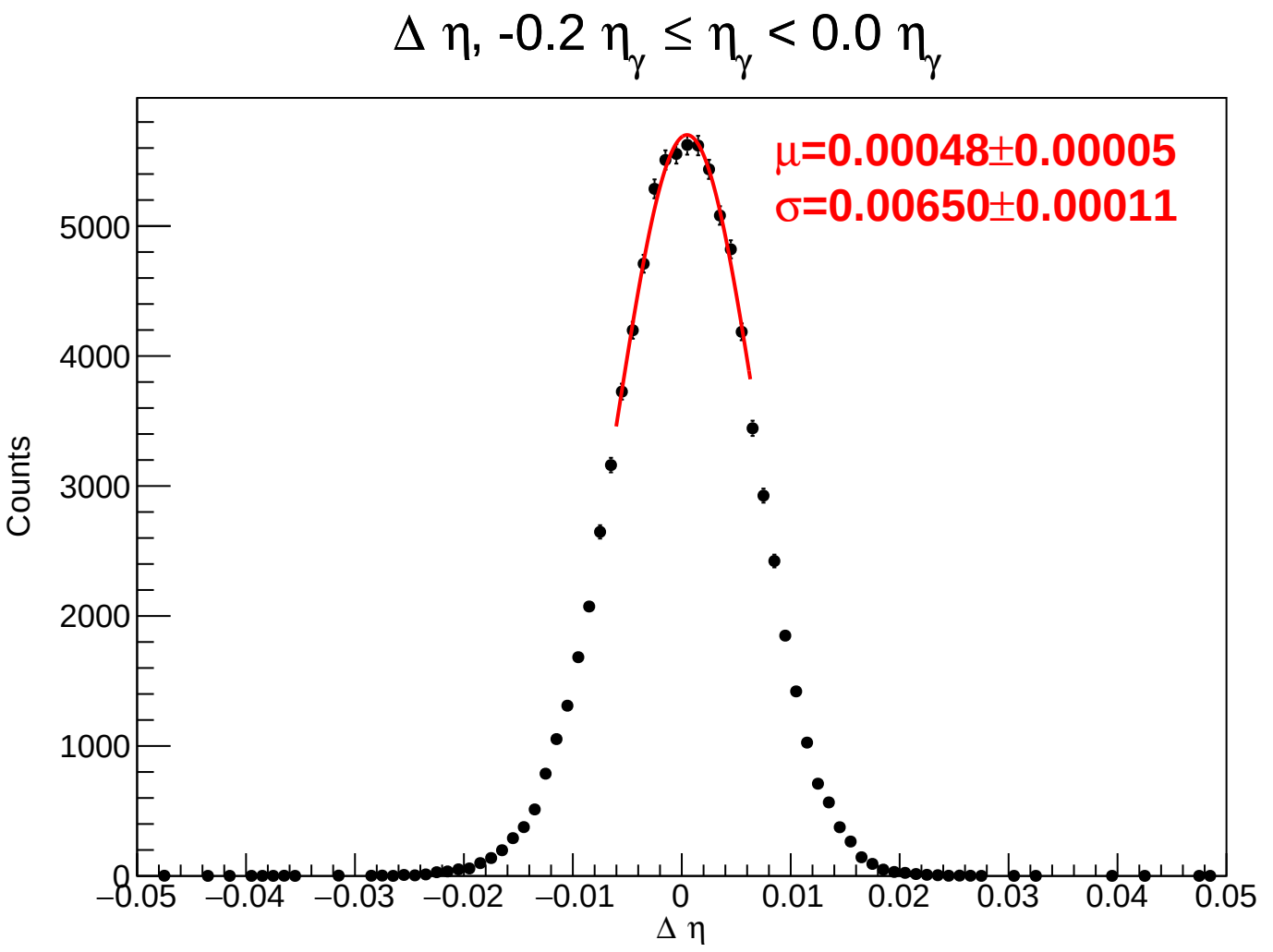

Δ η, -0.6 η_γ ≤ η_γ < -0.4 η_γ
Counts
7000
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

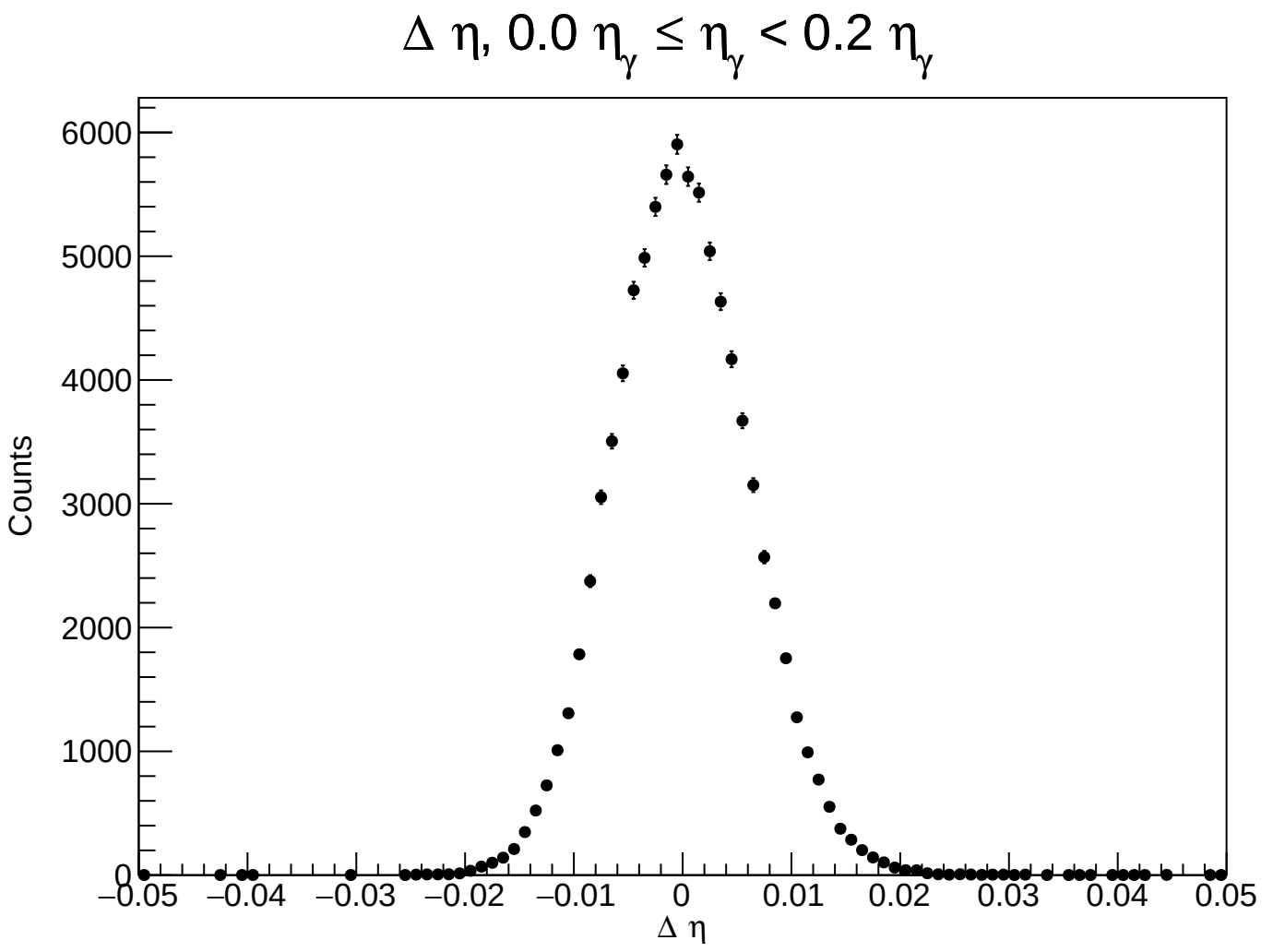

Δ η, -0.6 η_γ ≤ η_γ < -0.4 η_γ
μ=-0.00014±0.00004
σ=0.00518±0.00007
Counts
Δ η
7000
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

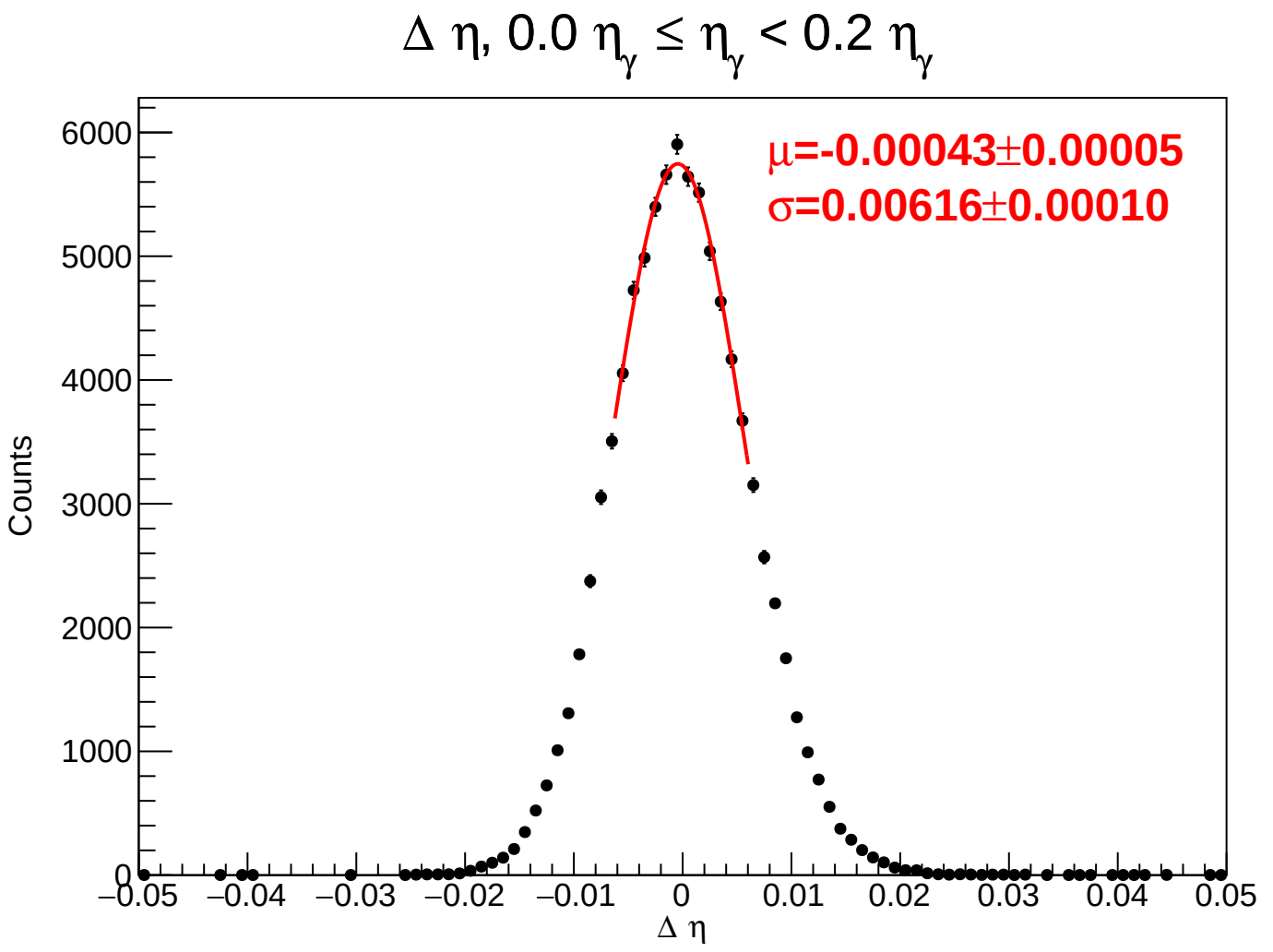

Δ η, -0.4 η_γ ≤ η_γ < -0.2 η_γ
Counts
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

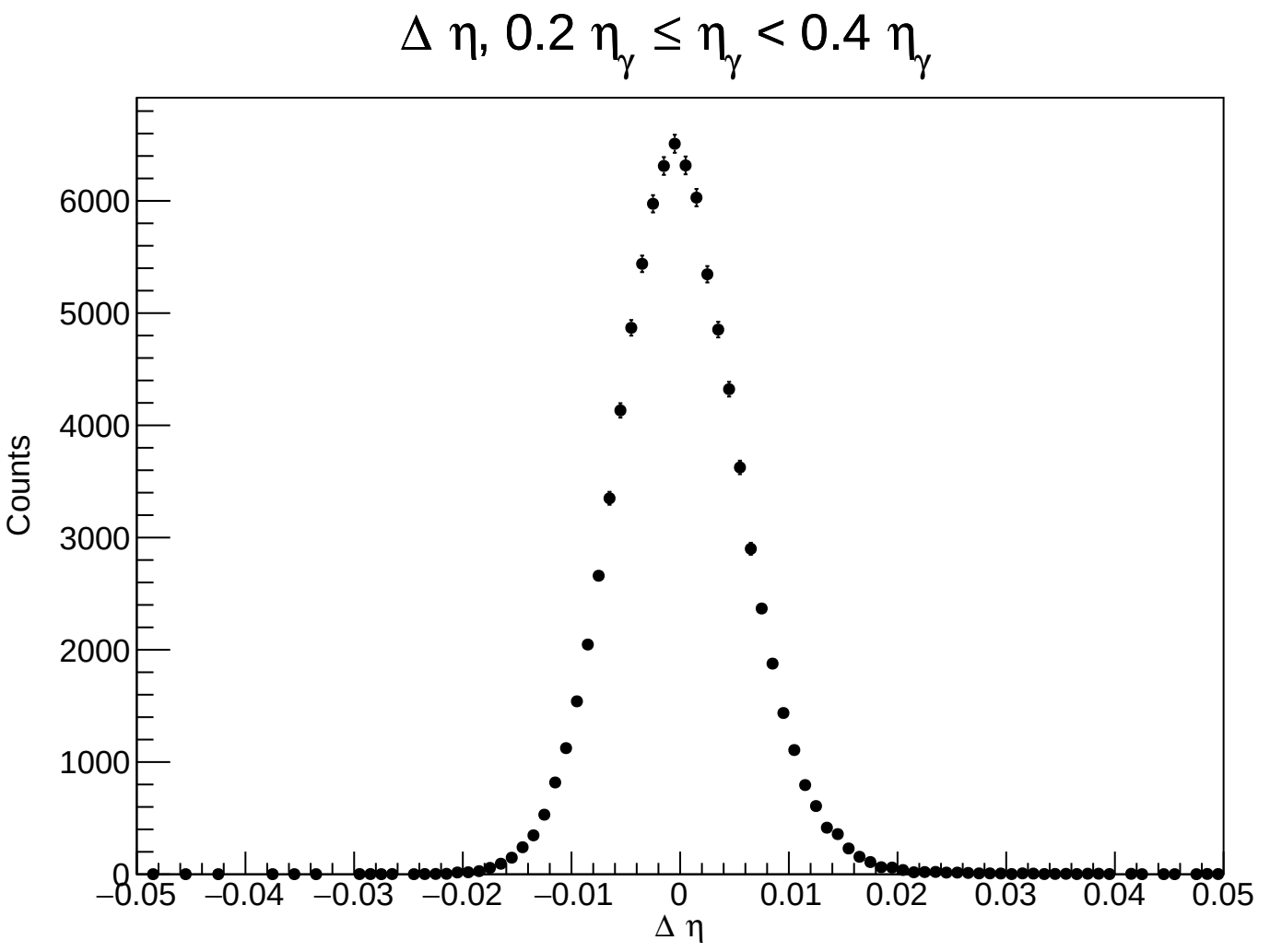

Δ η, -0.4 η_γ ≤ η_γ < -0.2 η_γ
μ=0.00048±0.00004
σ=0.00539±0.00006
Counts
Δ η
0
1000
2000
3000
4000
5000
6000
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

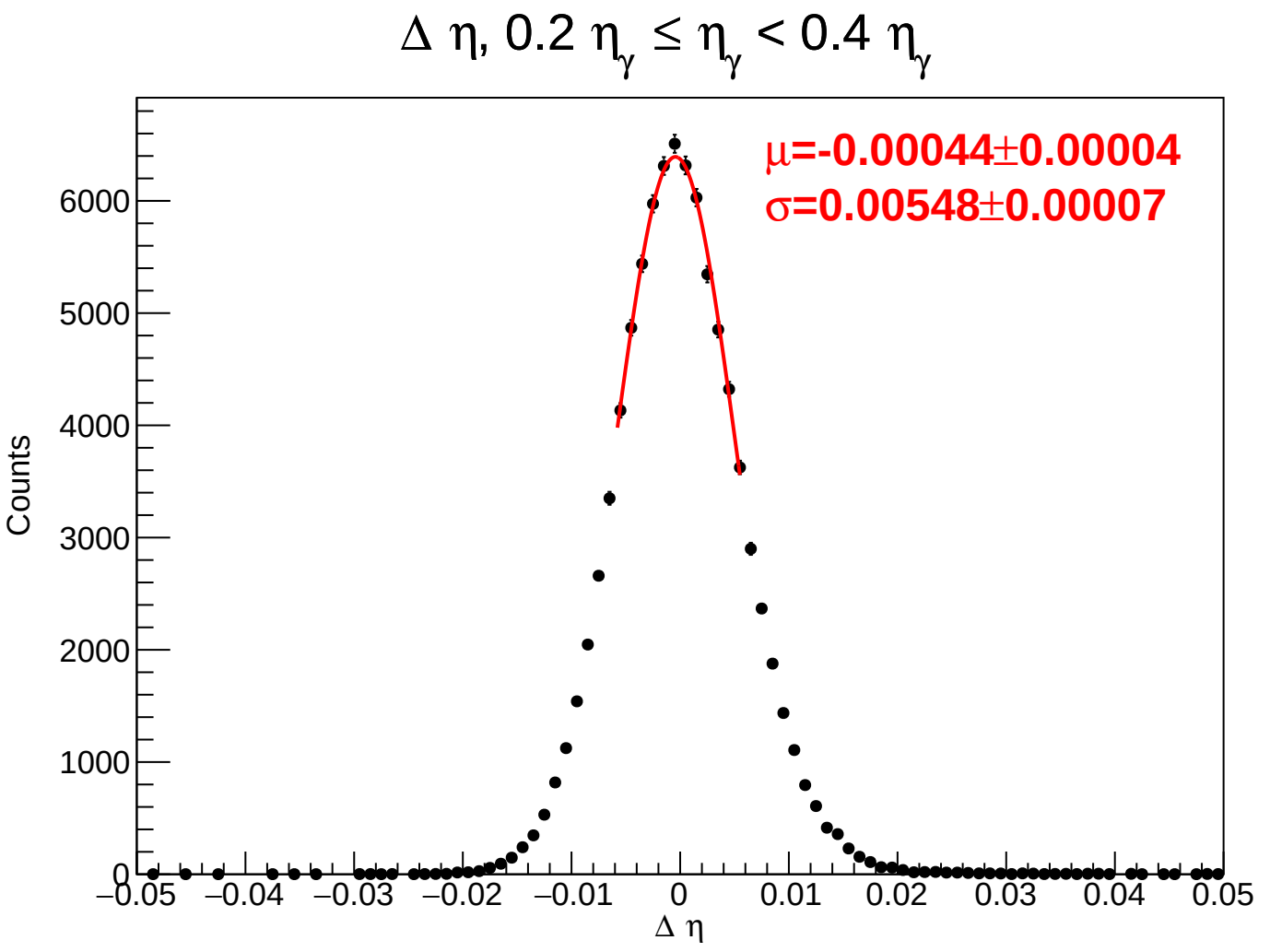

Δ η, -0.2 η_γ ≤ η_γ < 0.0 η_γ
Counts
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

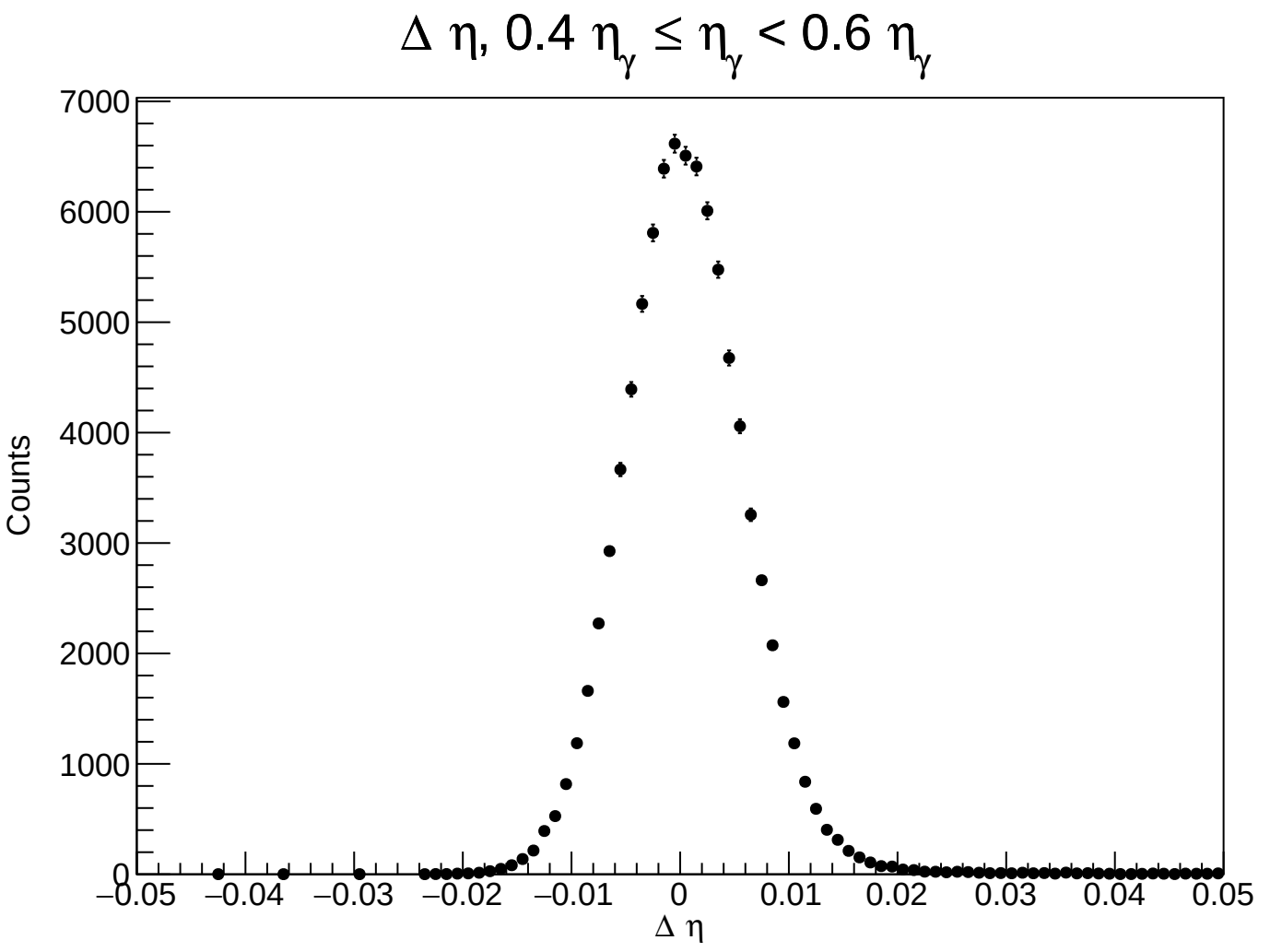

Δ η, -0.2 η_γ ≤ η_γ < 0.0 η_γ
μ=0.00048±0.00005
σ=0.00650±0.00011
Counts
0
1000
2000
3000
4000
5000
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

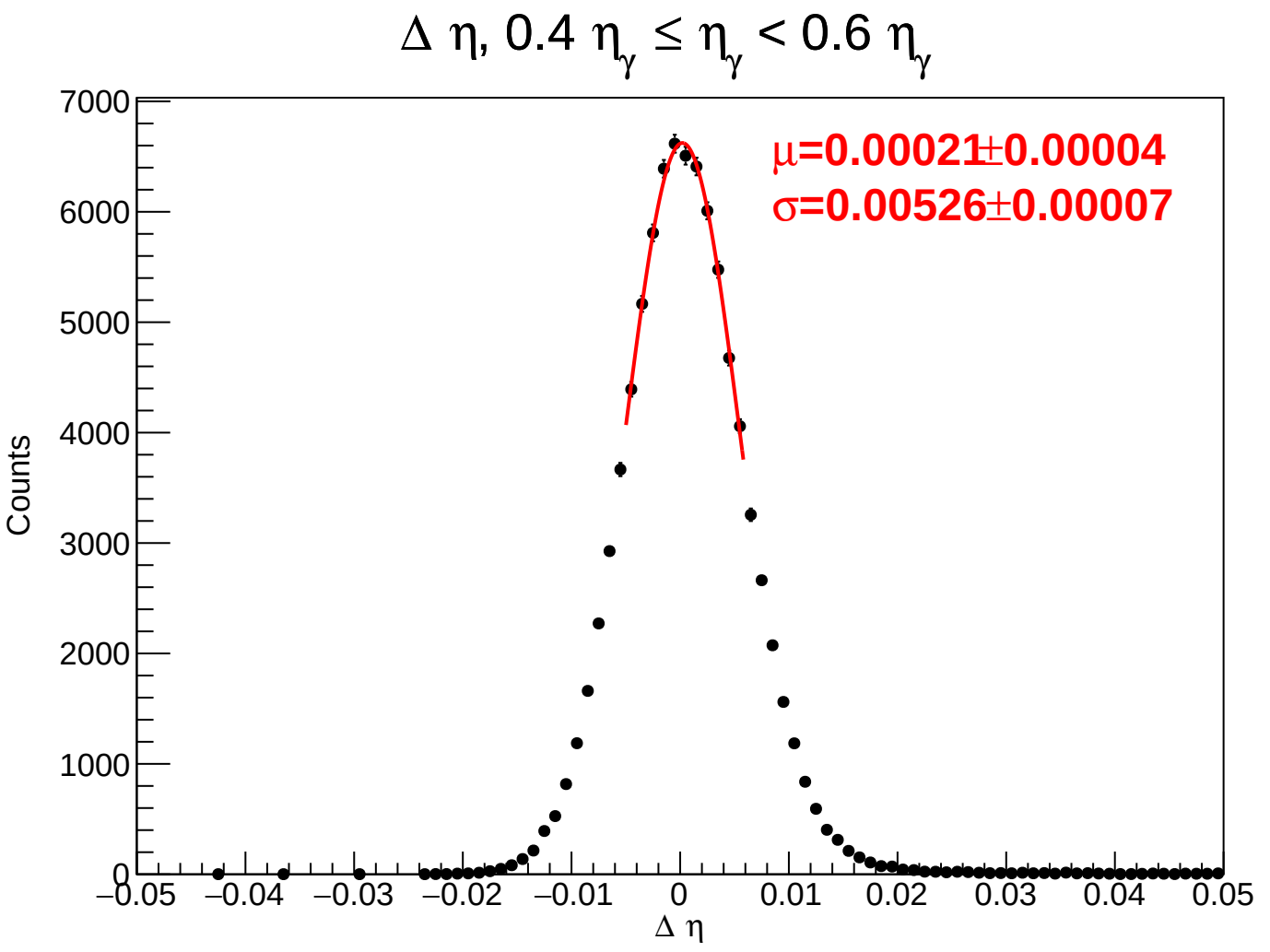

Δ η, 0.0 η_γ ≤ η_γ < 0.2 η_γ
Counts
6000
5000
4000
3000
2000
1000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

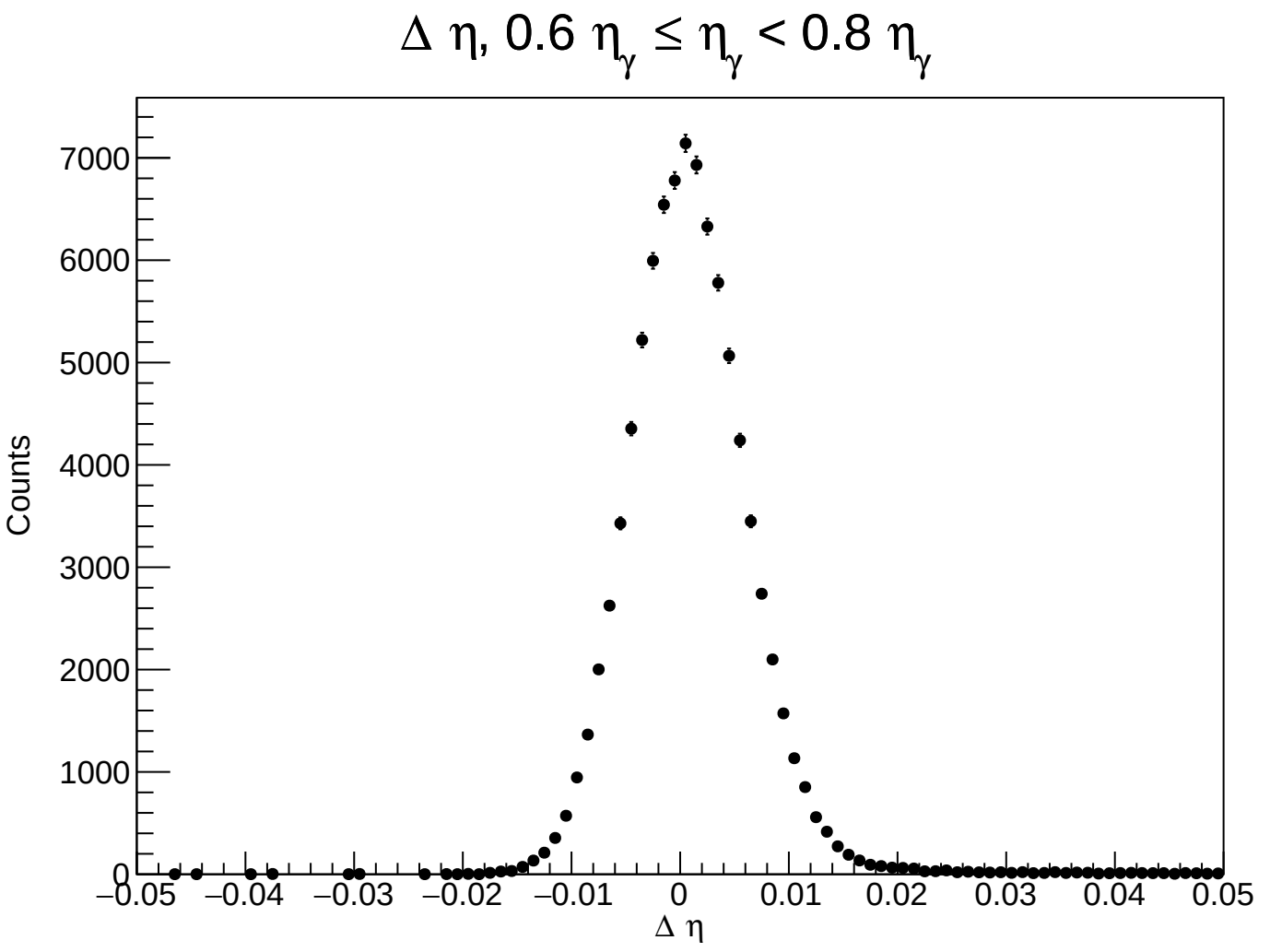

Δ η, 0.0 η_γ ≤ η_γ < 0.2 η_γ
μ=-0.00043±0.00005
σ=0.00616±0.00010
Counts
Δ η
6000
5000
4000
3000
2000
1000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05

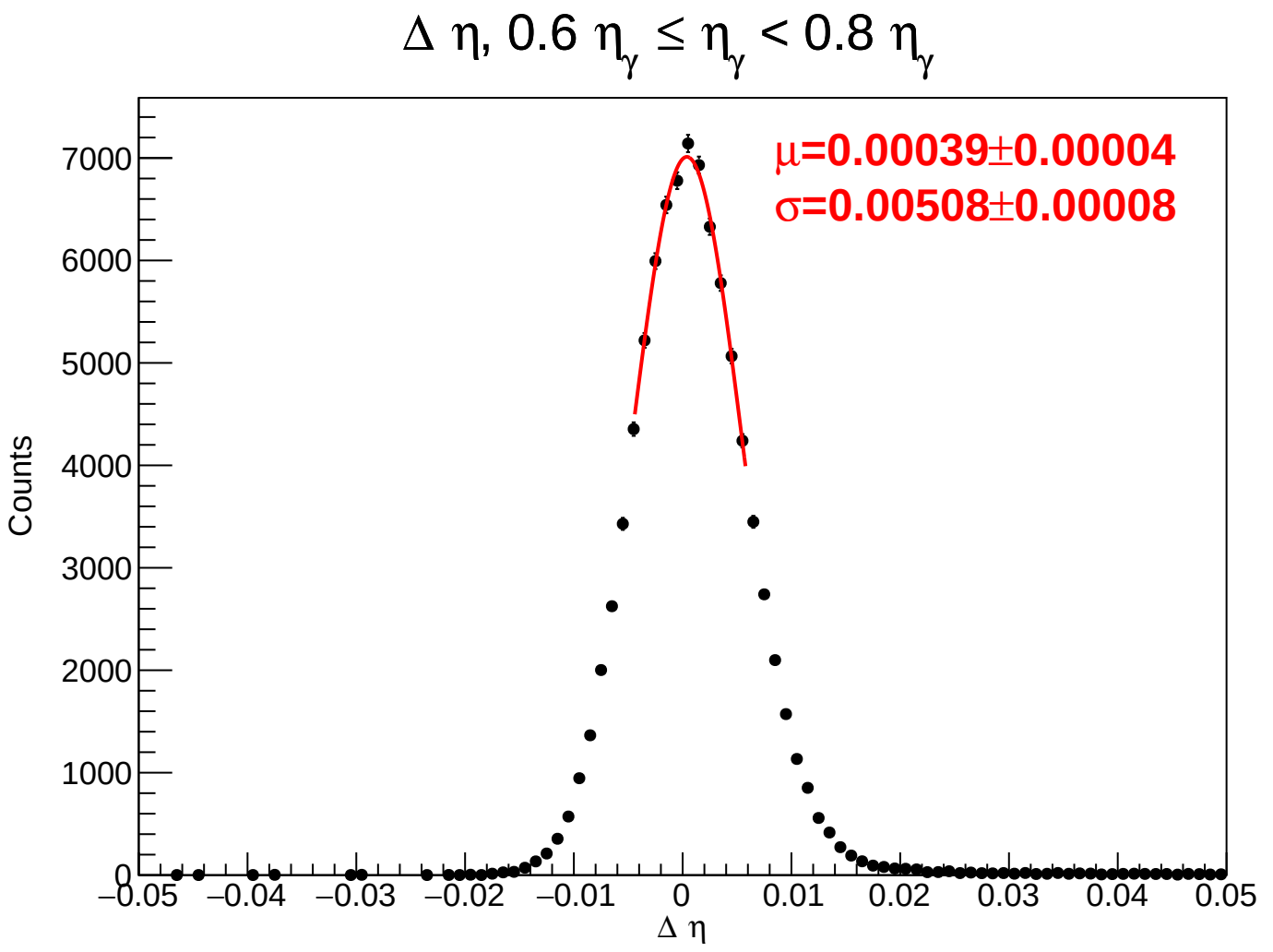

Δ η, 0.2 η_γ ≤ η_γ < 0.4 η_γ
Counts
6000
5000
4000
3000
2000
1000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

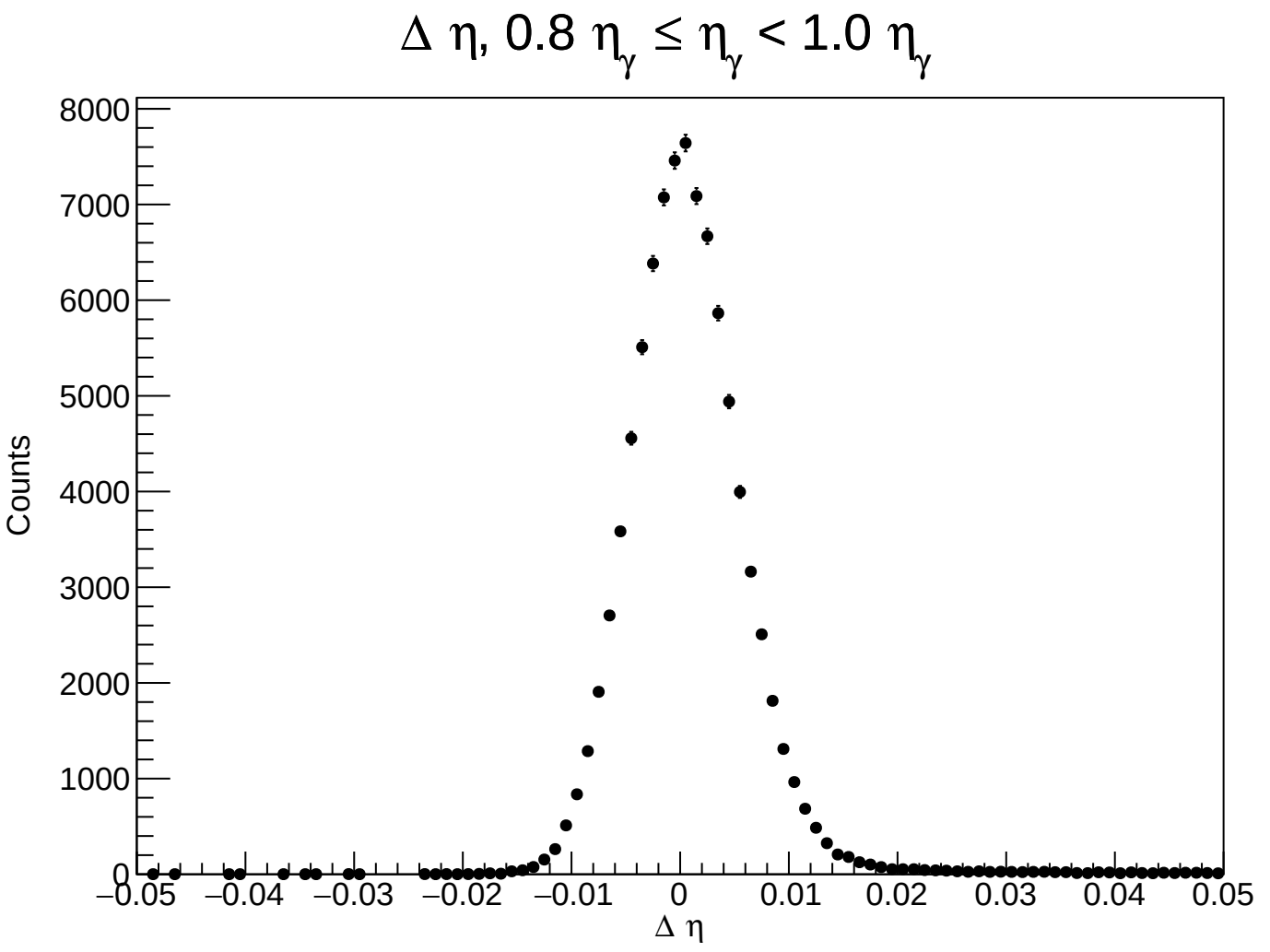

Δ η, 0.2 η_γ ≤ η_γ < 0.4 η_γ
μ=-0.00044±0.00004
σ=0.00548±0.00007
Counts
Δ η
0
1000
2000
3000
4000
5000
6000
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05

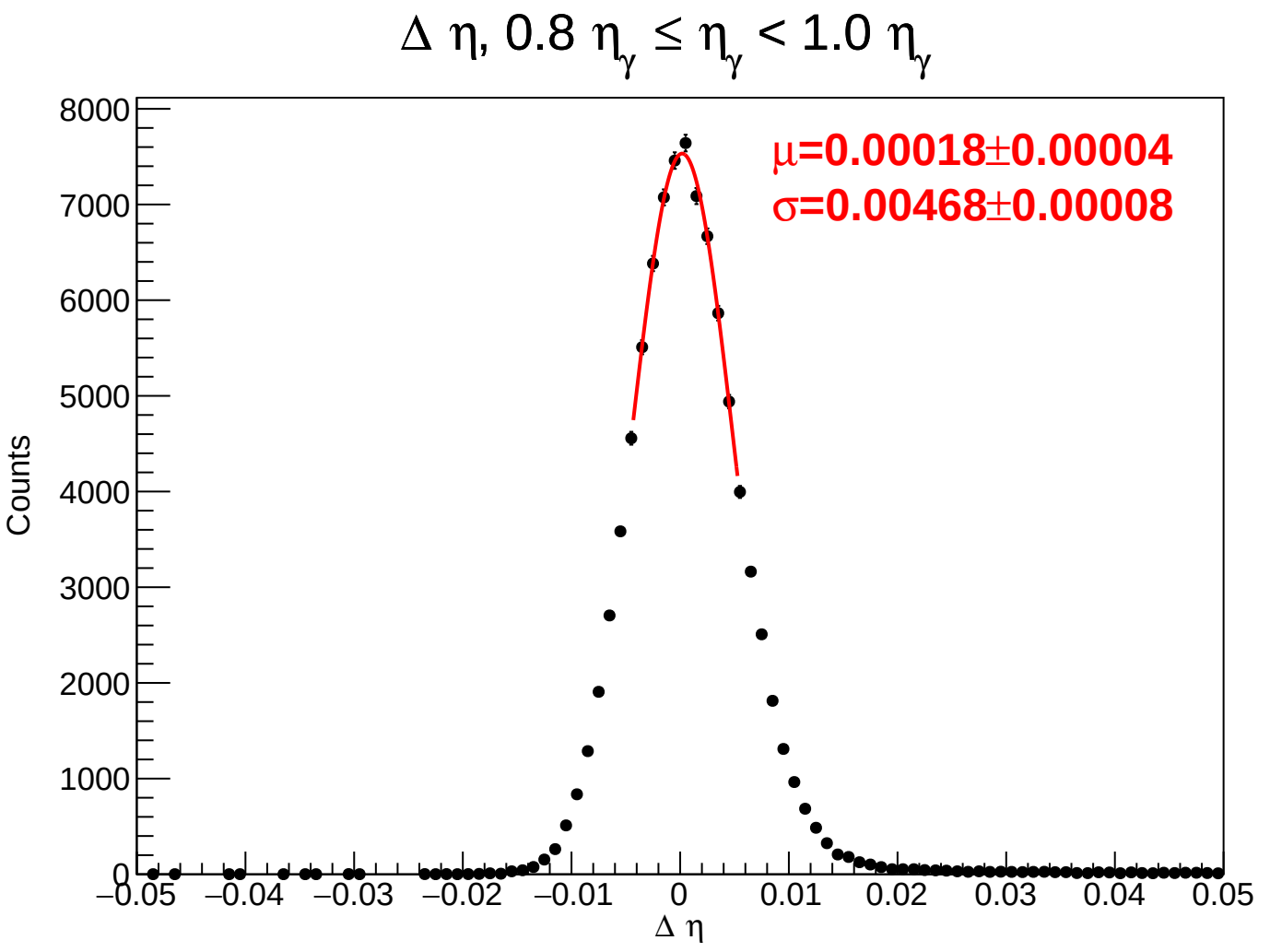

Δ η, 0.4 η_γ ≤ η_γ < 0.6 η_γ
Counts
7000
6000
5000
4000
3000
2000
1000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

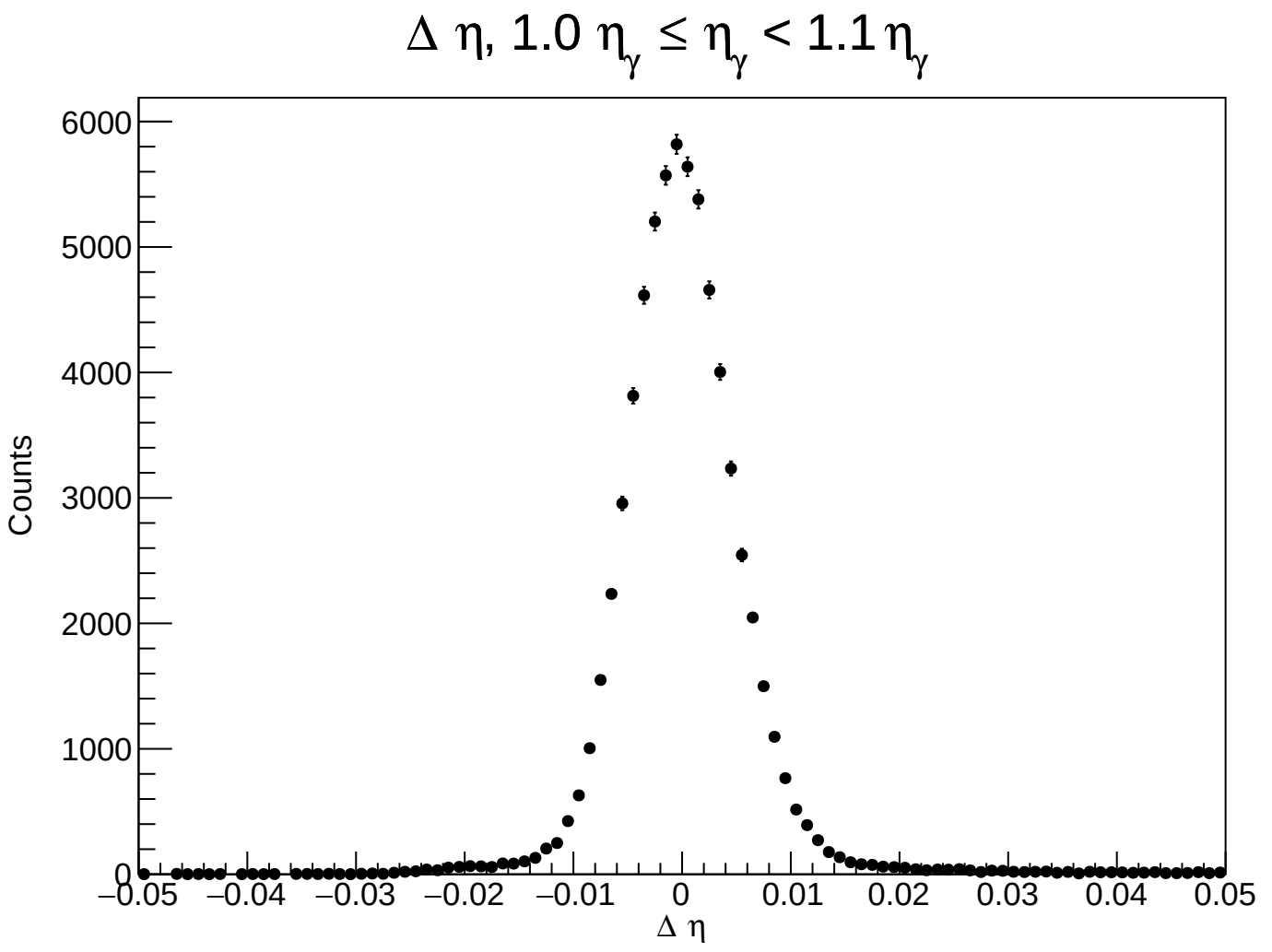

Δ η, 0.4 η_γ ≤ η_γ < 0.6 η_γ
μ=0.00021±0.00004
σ=0.00526±0.00007
Counts
Δ η
7000
6000
5000
4000
3000
2000
1000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05

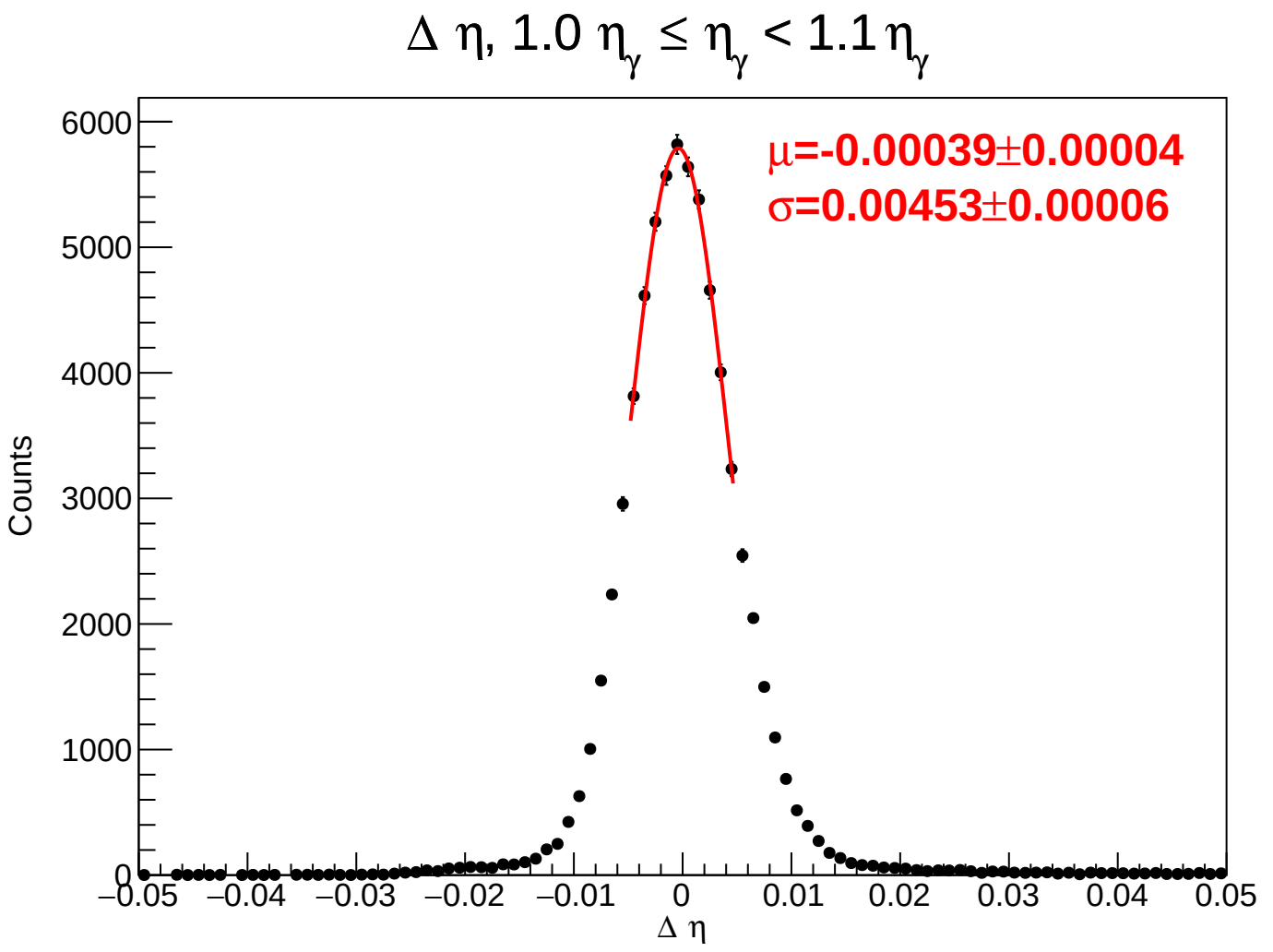

Δ η, 0.6 η_γ ≤ η_γ < 0.8 η_γ
Counts
7000
6000
5000
4000
3000
2000
1000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

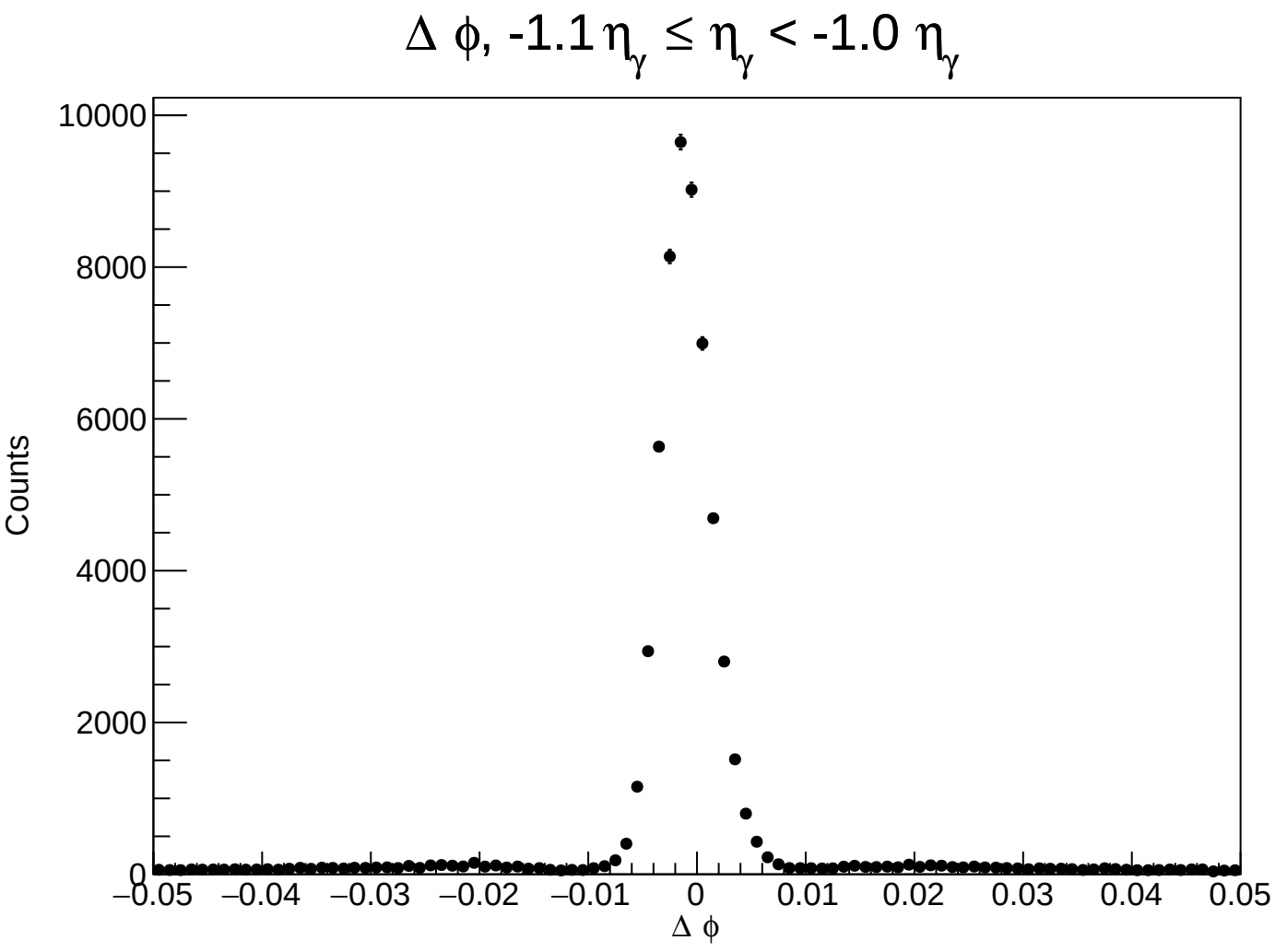

Δ η, 0.6 η_γ ≤ η_γ < 0.8 η_γ
μ=0.00039±0.00004
σ=0.00508±0.00008
Counts
Δ η
0
1000
2000
3000
4000
5000
6000
7000
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

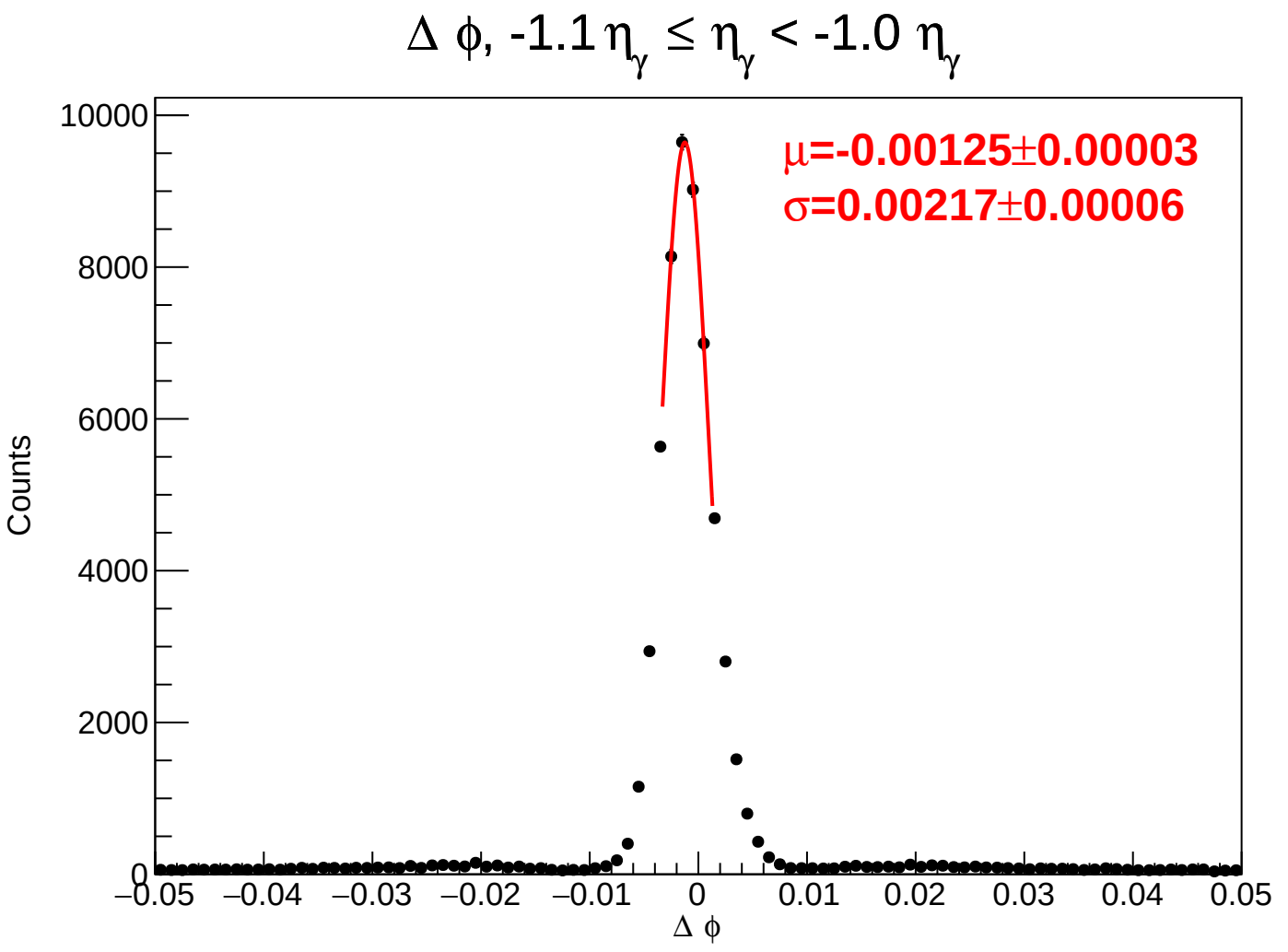

Δ η, 0.8 η_γ ≤ η_γ < 1.0 η_γ
Counts
8000
7000
6000
5000
4000
3000
2000
1000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

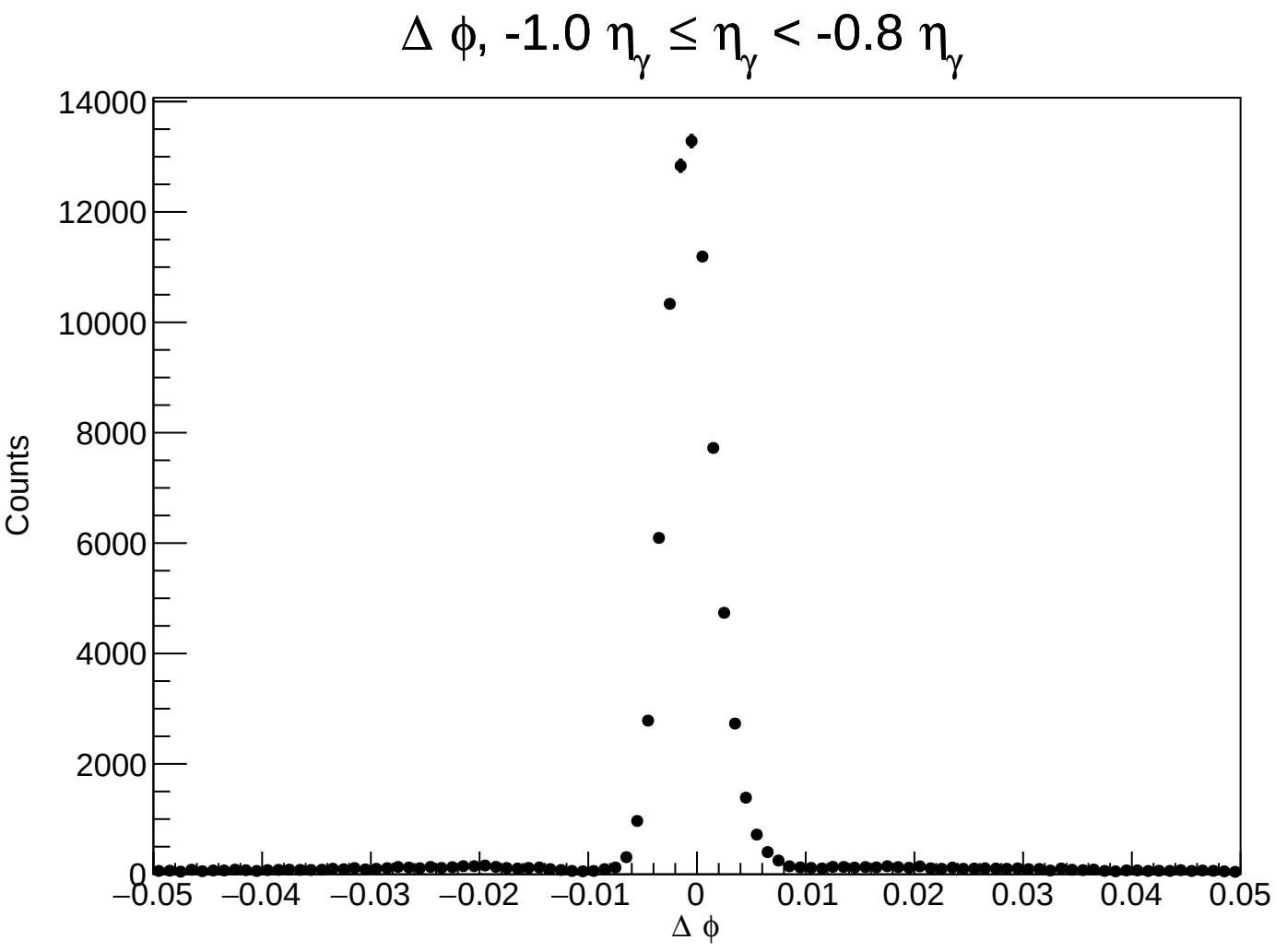

Δ η, 0.8 η_γ ≤ η_γ < 1.0 η_γ
μ=0.00018±0.00004
σ=0.00468±0.00008
Counts
Δ η
8000
7000
6000
5000
4000
3000
2000
1000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05

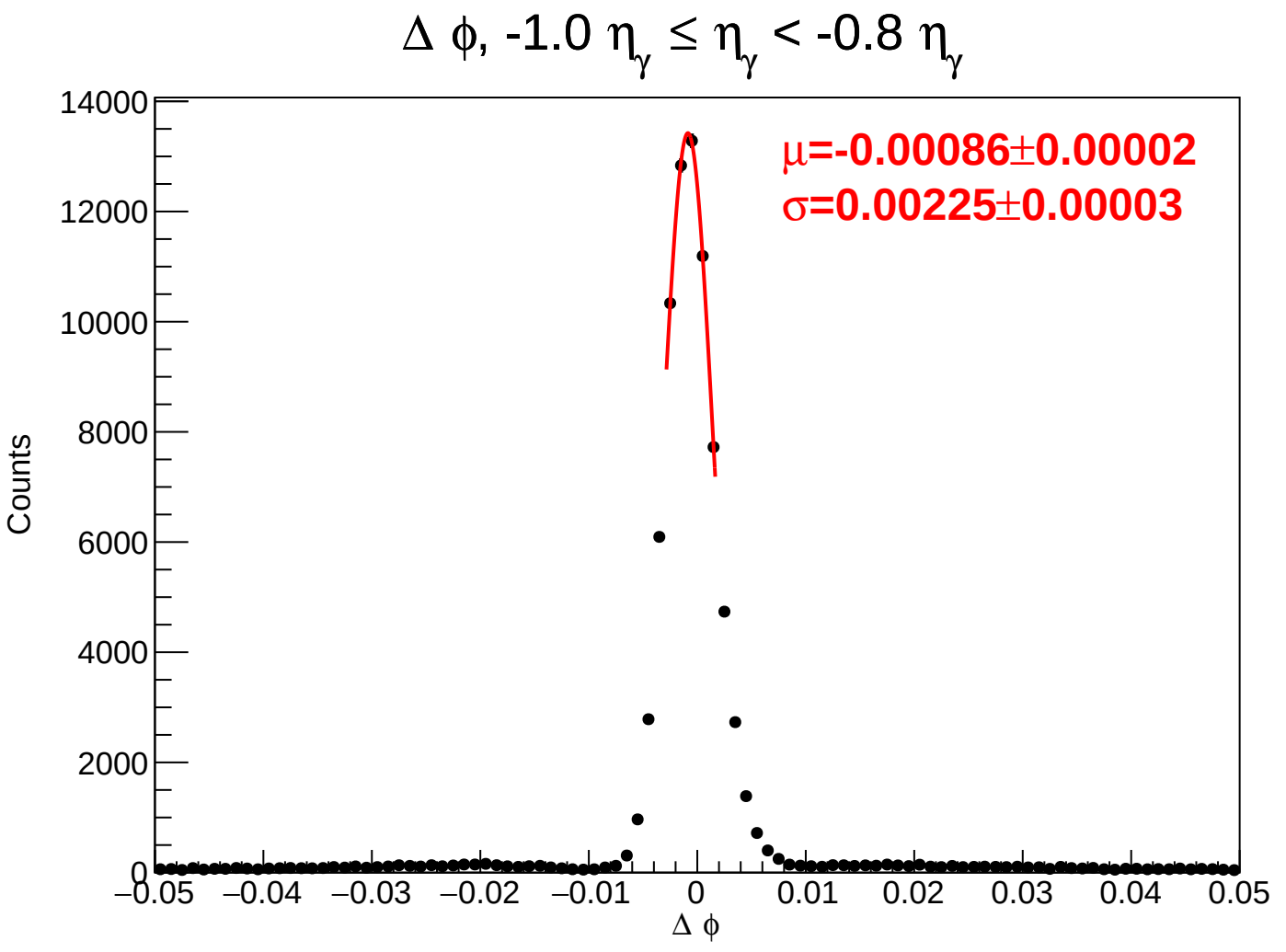

Δ η, 1.0 η_γ ≤ η_γ < 1.1 η_γ
Counts
6000
5000
4000
3000
2000
1000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05
Δ η

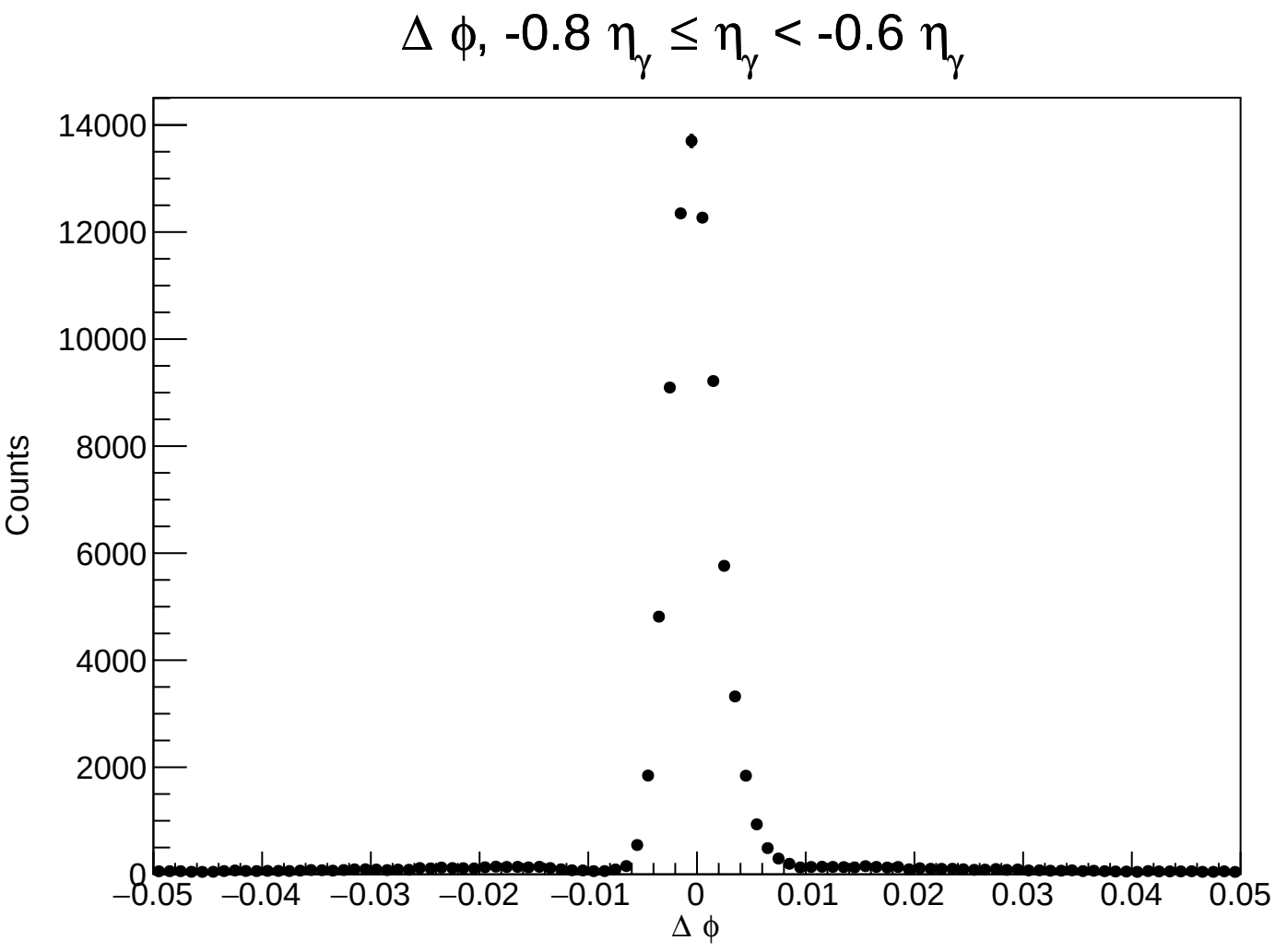

Δ η, 1.0 η_γ ≤ η_γ < 1.1 η_γ
μ=-0.00039±0.00004
σ=0.00453±0.00006
Counts
Δ η
6000
5000
4000
3000
2000
1000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05

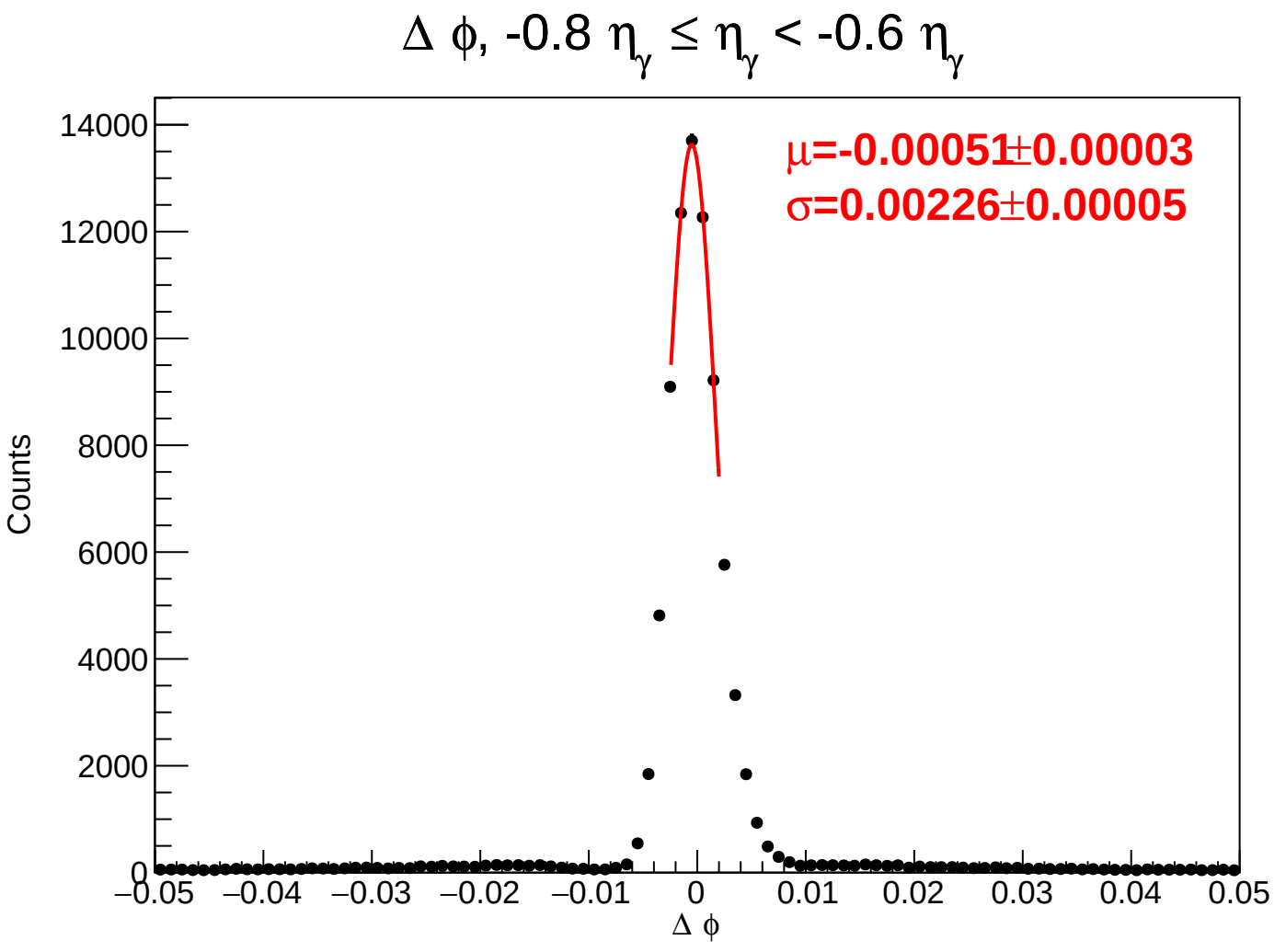

Δ ϕ, -1.1 η_γ ≤ η_γ < -1.0 η_γ
Counts
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

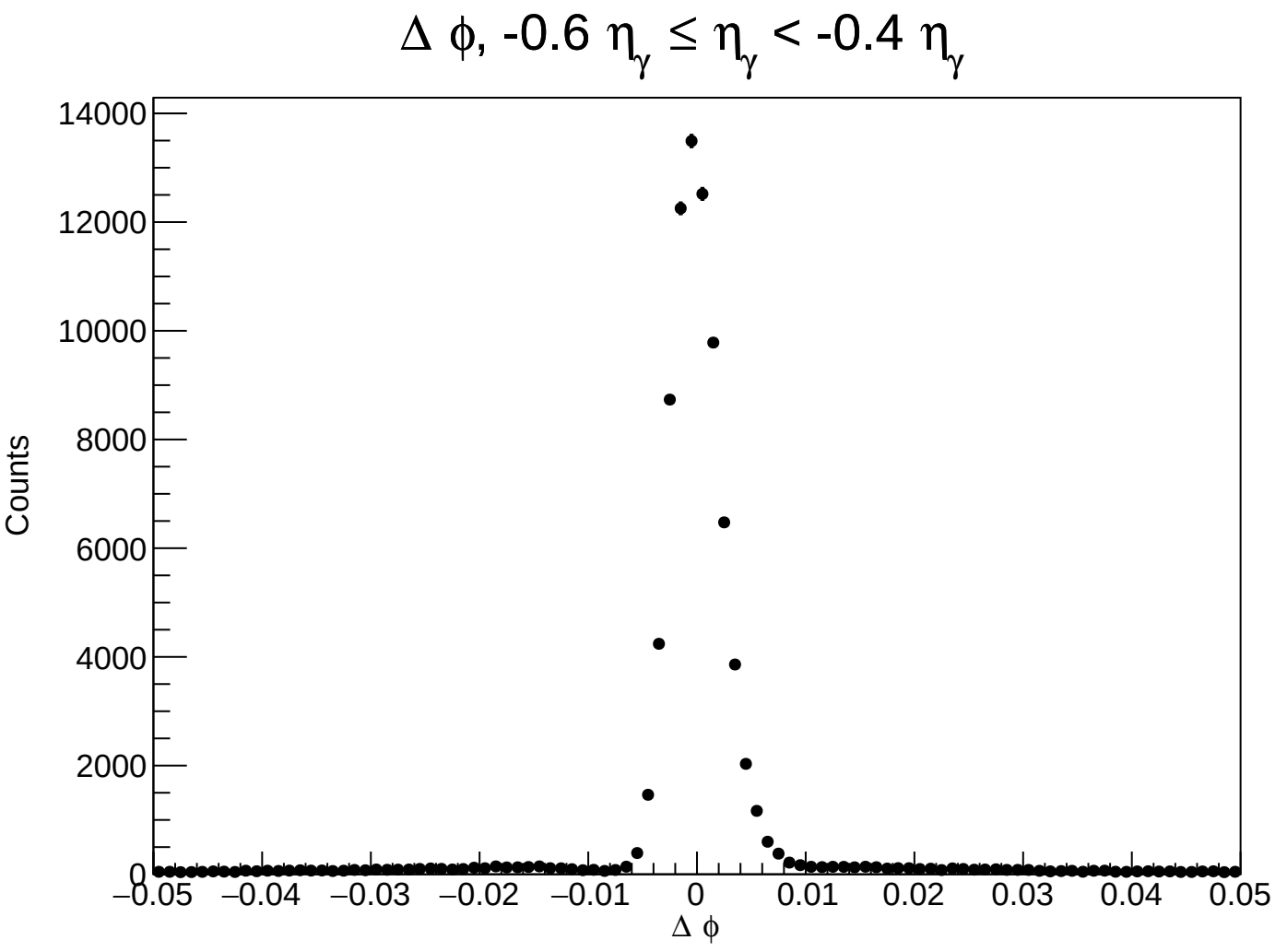

Δ ϕ, -1.1 η_γ ≤ η_γ < -1.0 η_γ
μ=-0.00125±0.00003
σ=0.00217±0.00006
Counts
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

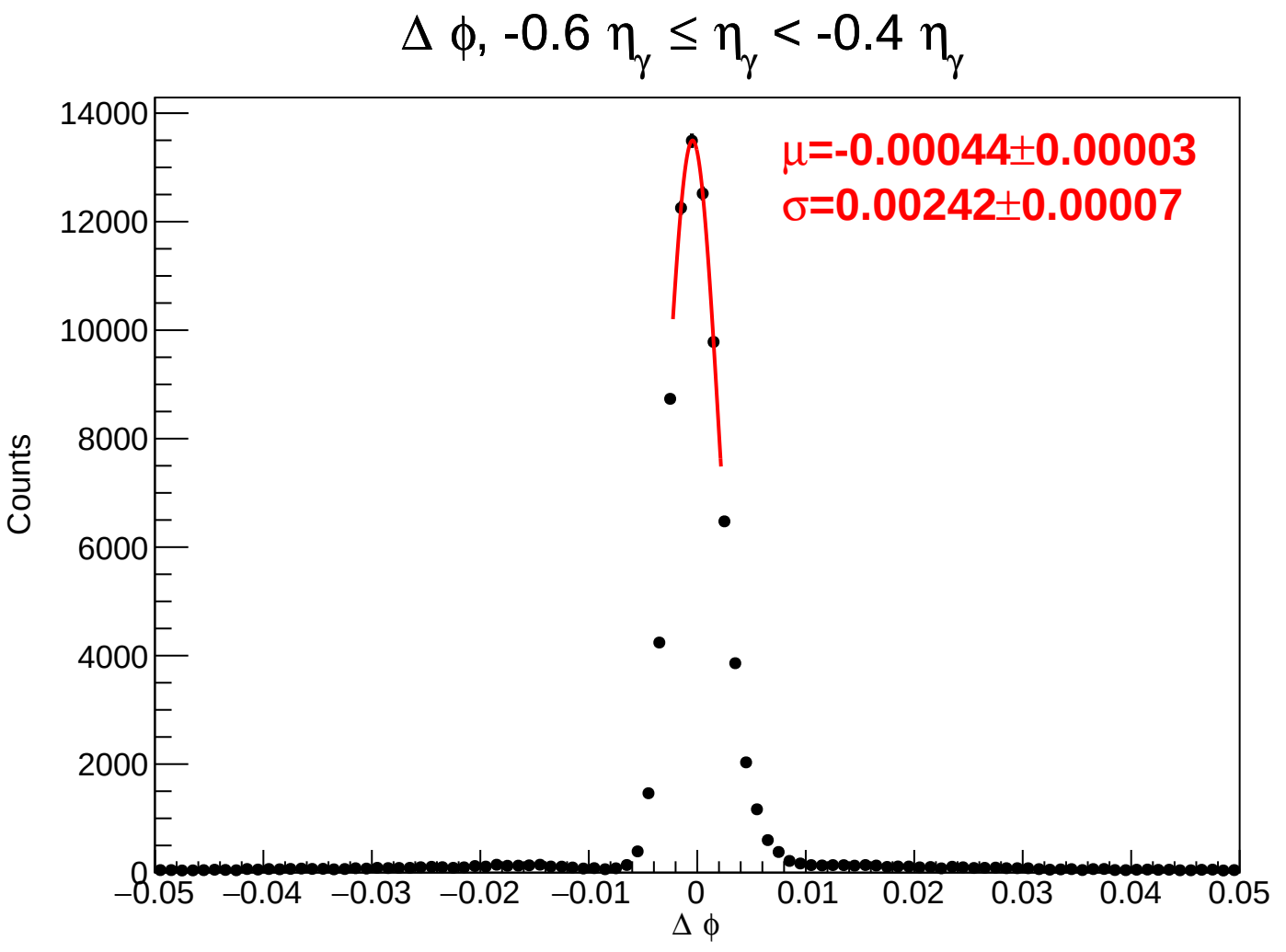

Δ ϕ, -1.0 η_γ ≤ η_γ < -0.8 η_γ
Counts
14000
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

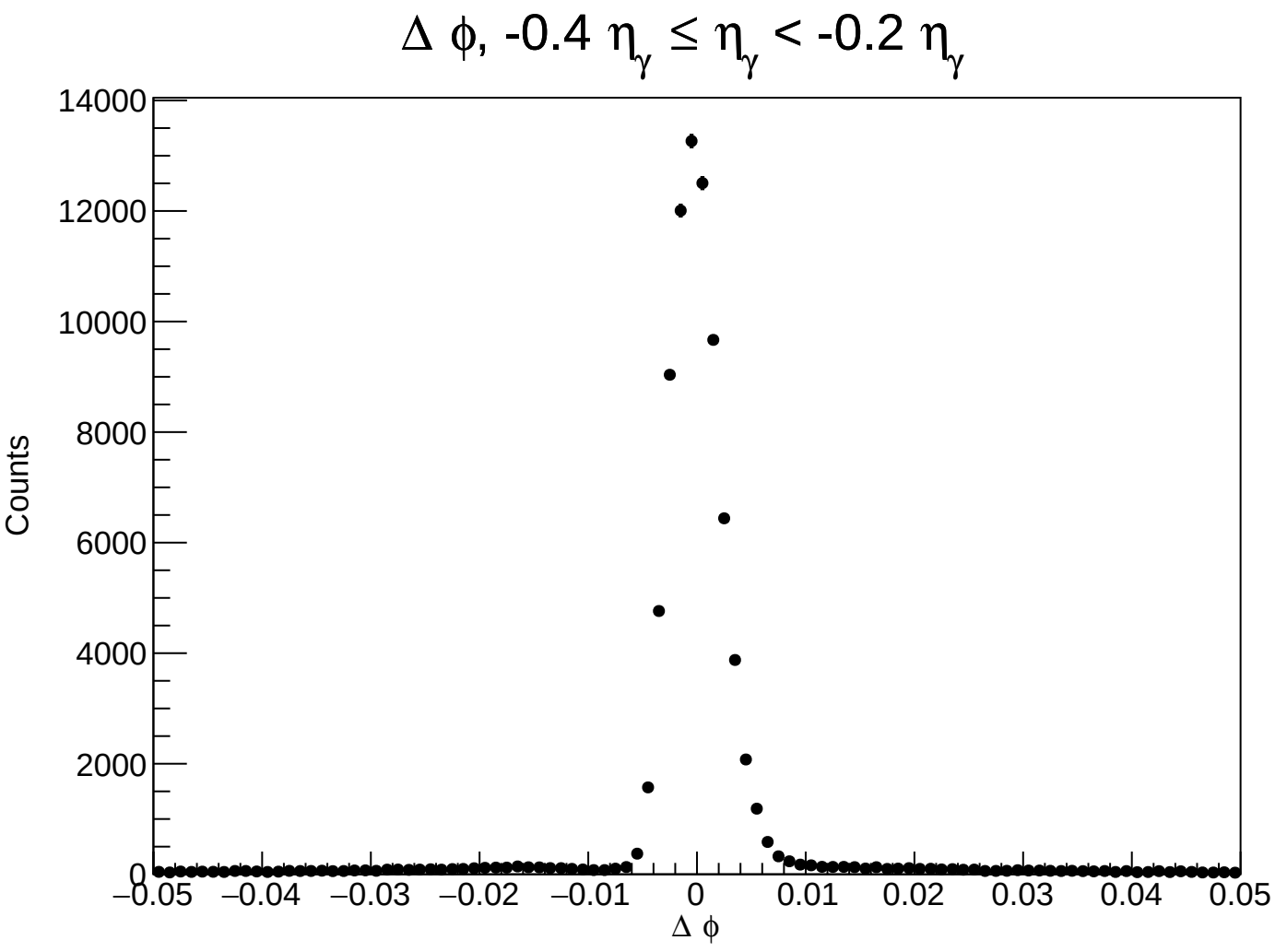

Δ ϕ, -1.0 η_γ ≤ η_γ < -0.8 η_γ
μ=-0.00086±0.00002
σ=0.00225±0.00003
Counts
Δ ϕ
14000
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

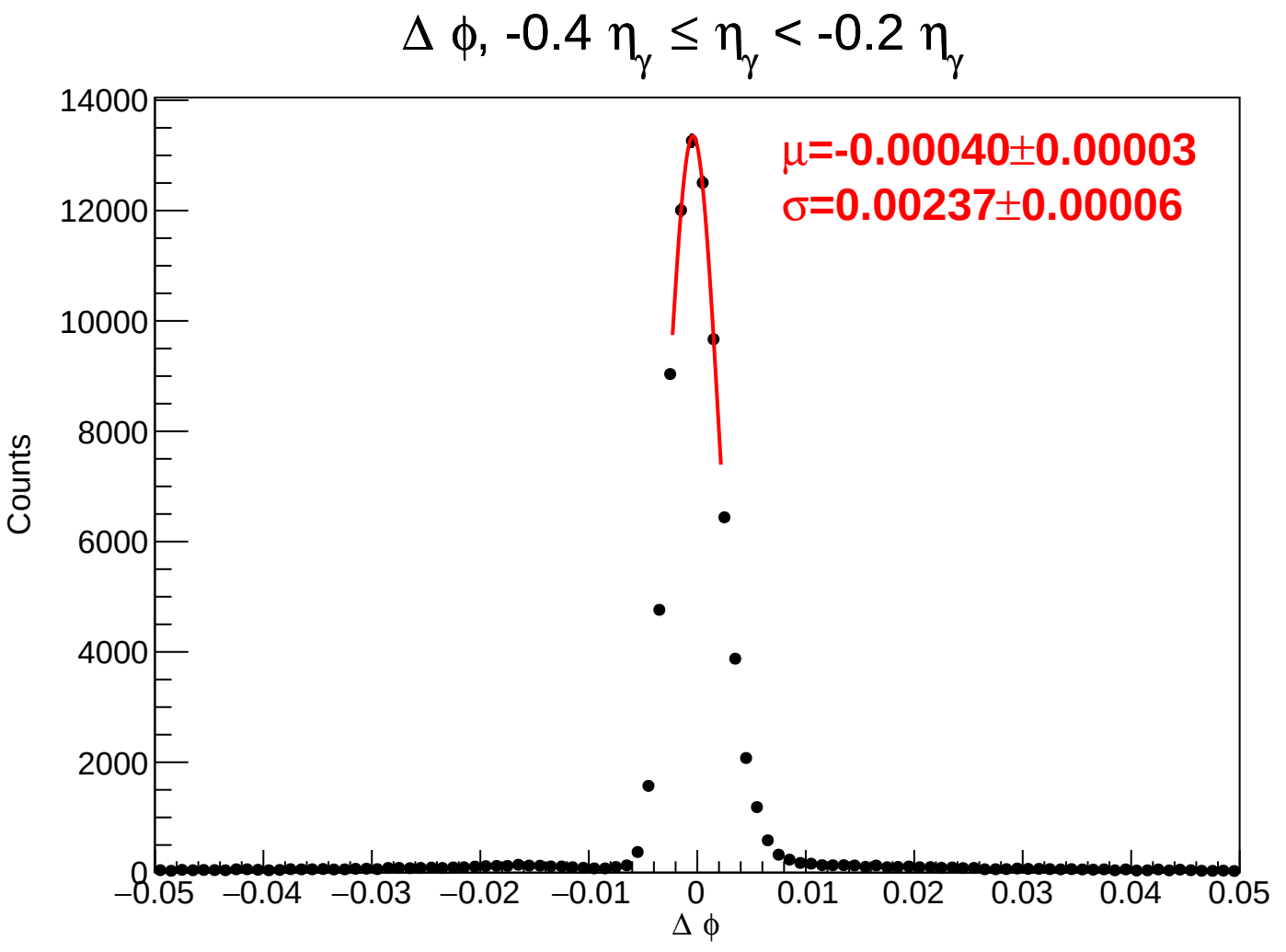

Δ ϕ, -0.8 η_γ ≤ η_γ < -0.6 η_γ
Counts
14000
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

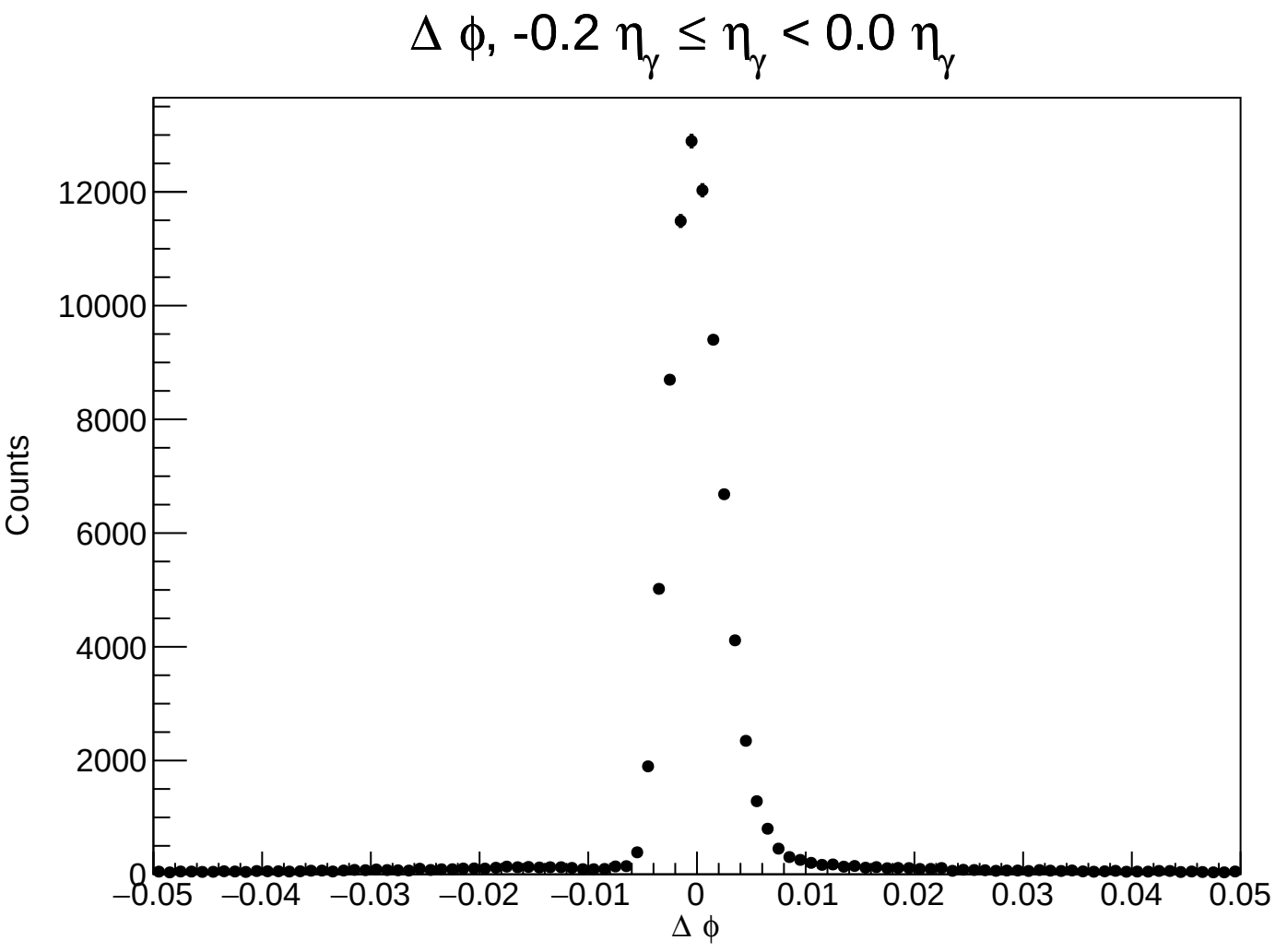

Δ ϕ, -0.8 η_γ ≤ η_γ < -0.6 η_γ
μ=-0.00051±0.00003
σ=0.00226±0.00005
Counts
Δ ϕ
14000
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

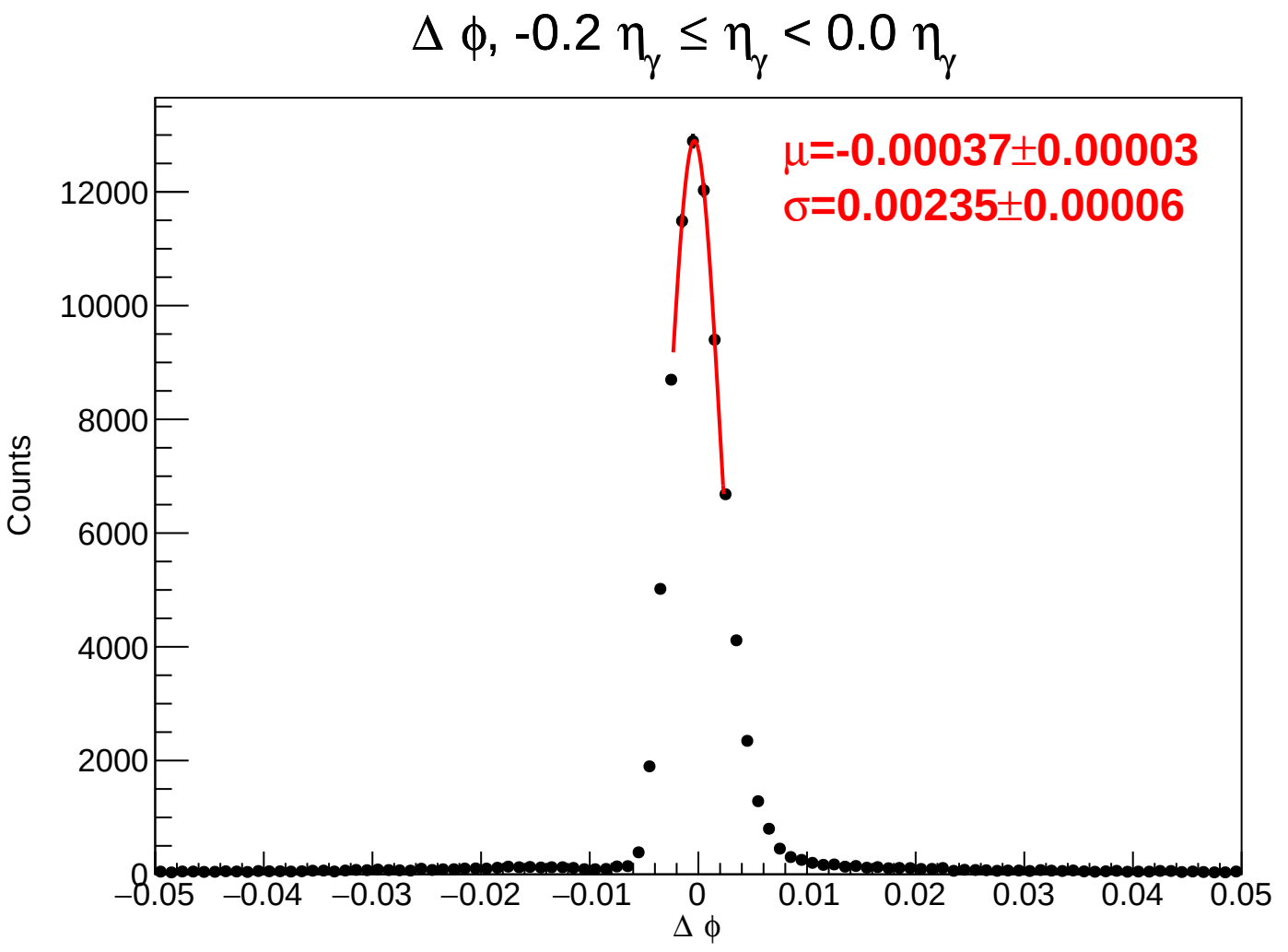

Δ ϕ, -0.6 η_γ ≤ η_γ < -0.4 η_γ
Counts
14000
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

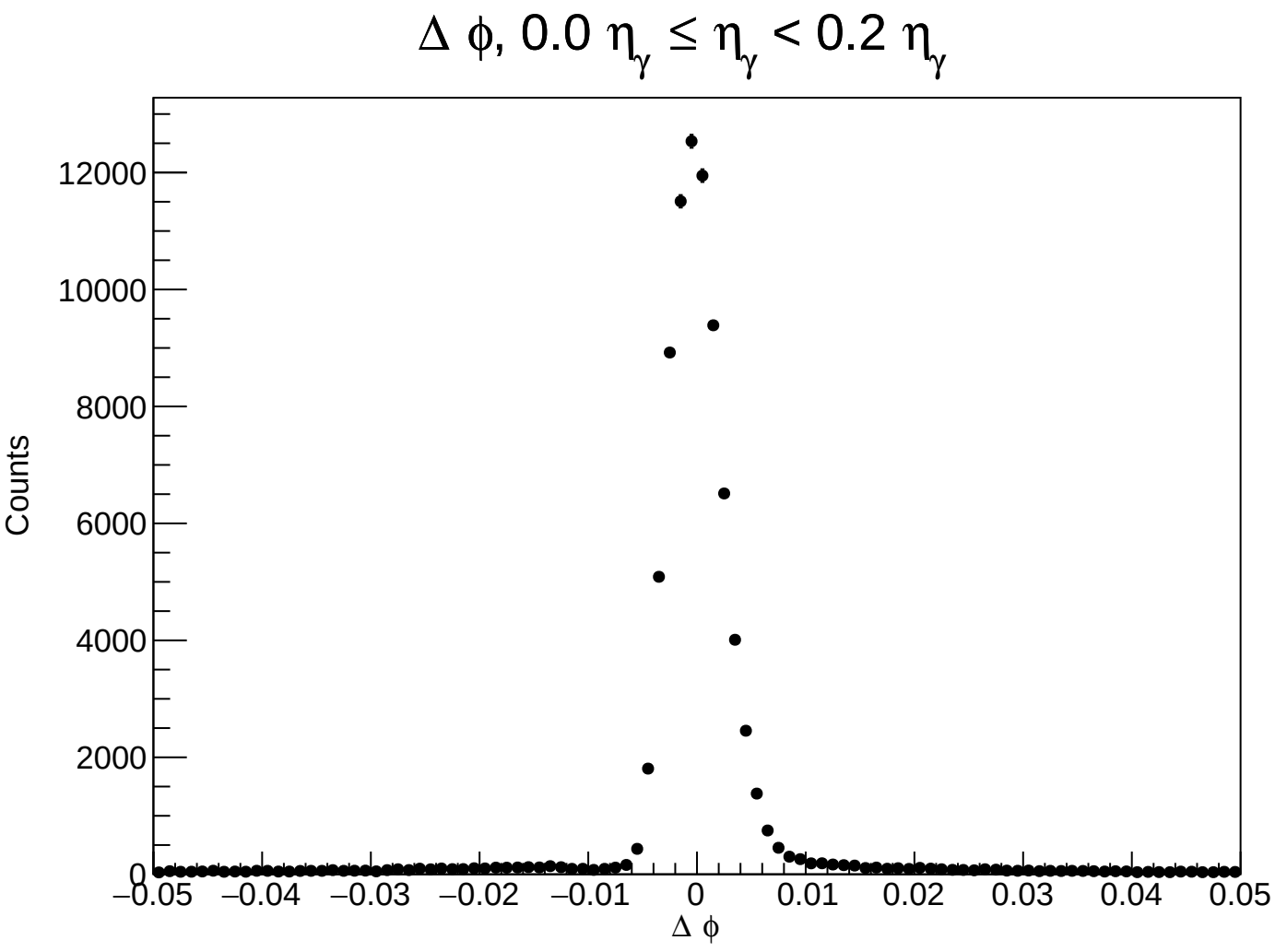

Δ ϕ, -0.6 η_γ ≤ η_γ < -0.4 η_γ
μ=-0.00044±0.00003
σ=0.00242±0.00007
Counts
Δ ϕ
14000
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

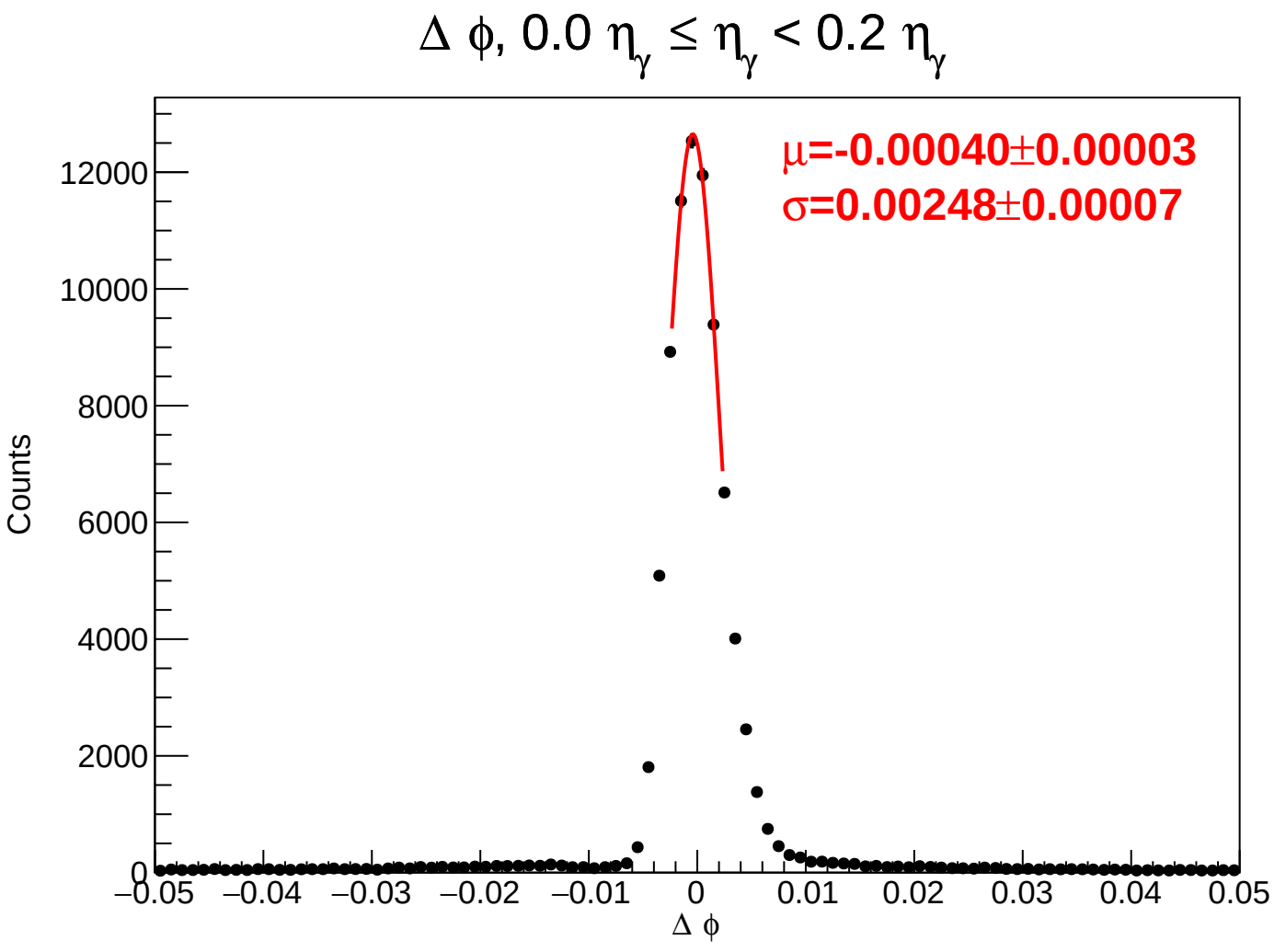

Δ ϕ, -0.4 η_γ ≤ η_γ < -0.2 η_γ
Counts
14000
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

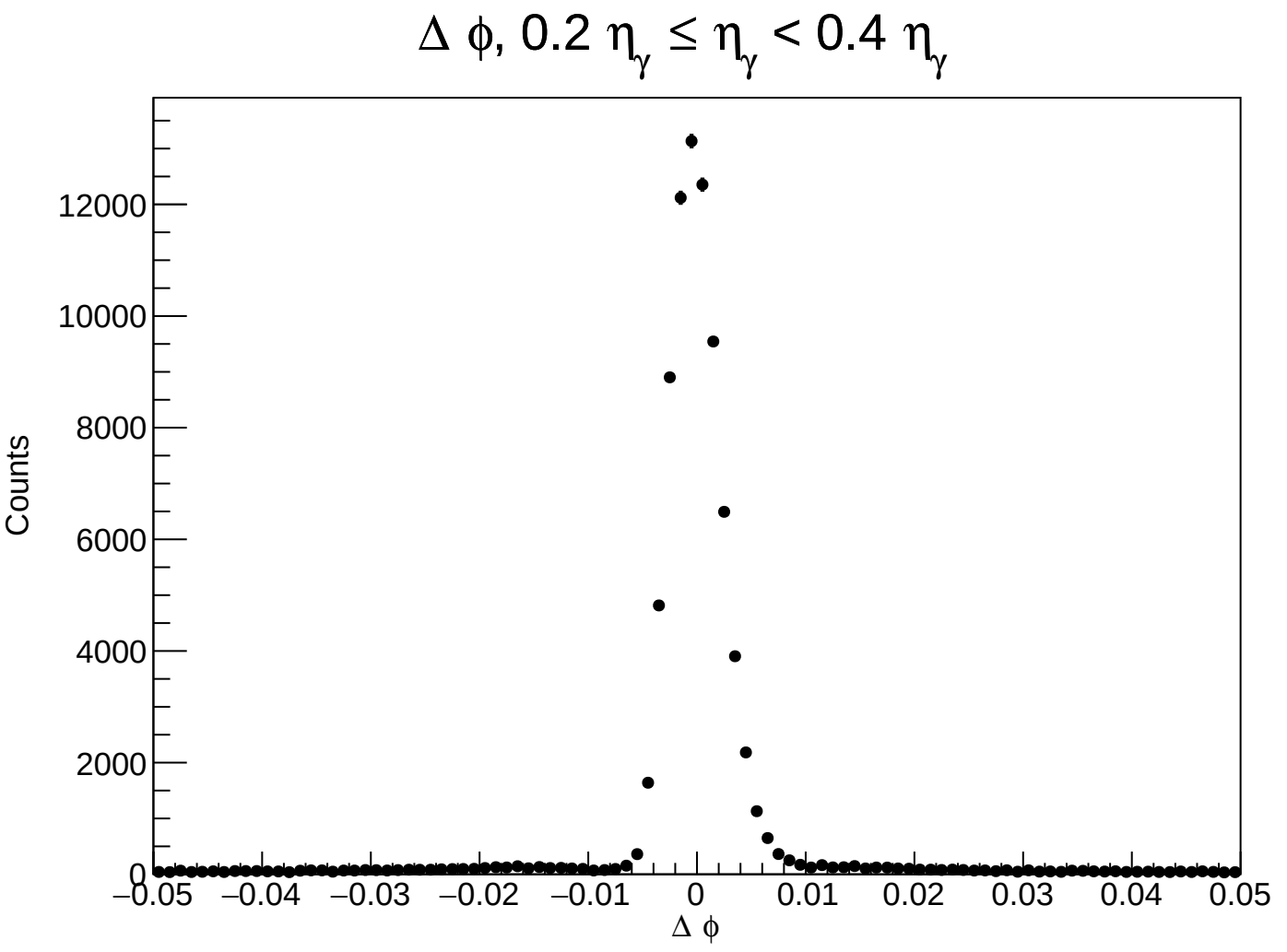

Δ ϕ, -0.4 η_γ ≤ η_γ < -0.2 η_γ
μ=-0.00040±0.00003
σ=0.00237±0.00006
Counts
Δ ϕ
14000
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

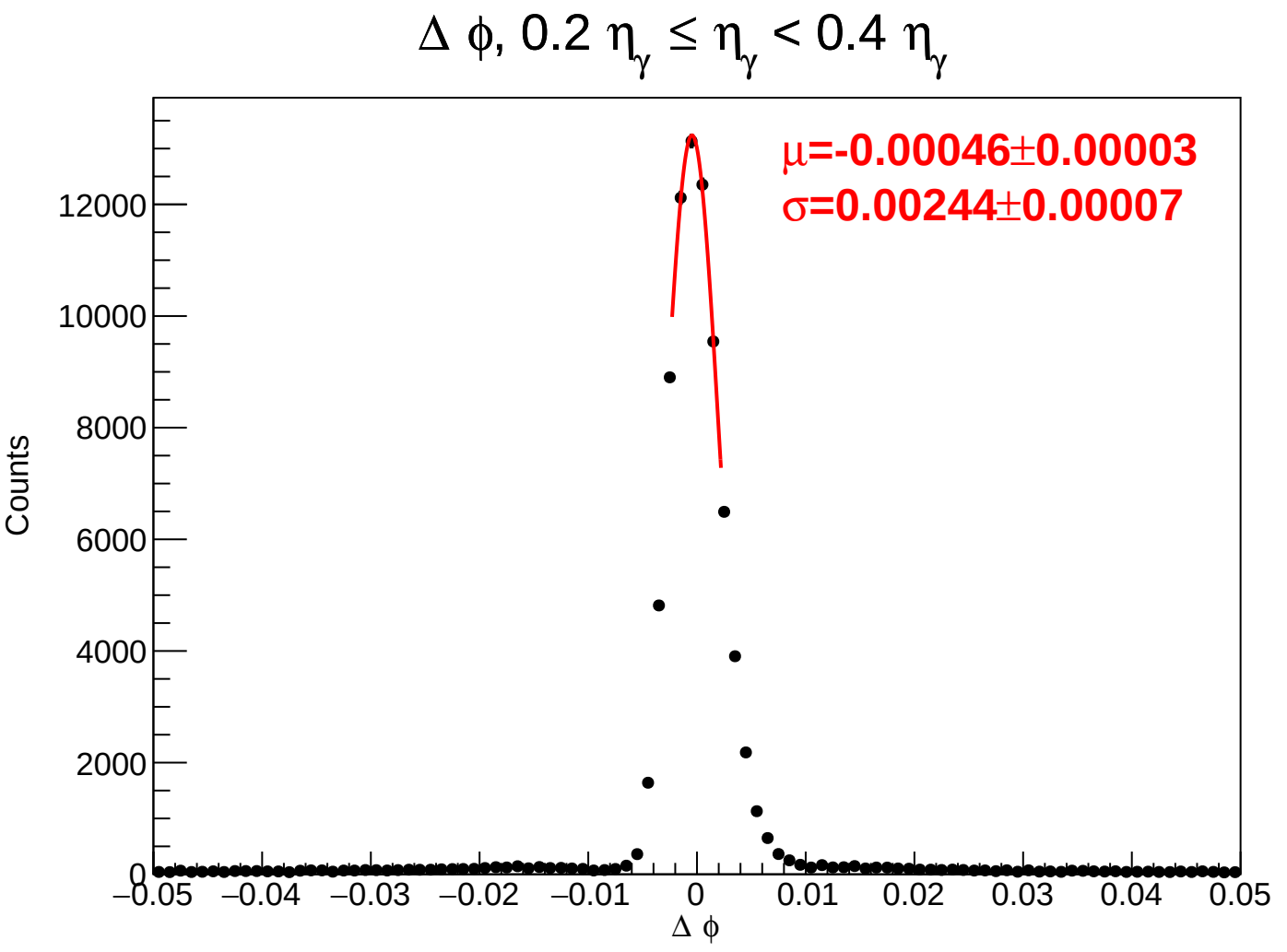

Δ ϕ, -0.2 η_γ ≤ η_γ < 0.0 η_γ
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

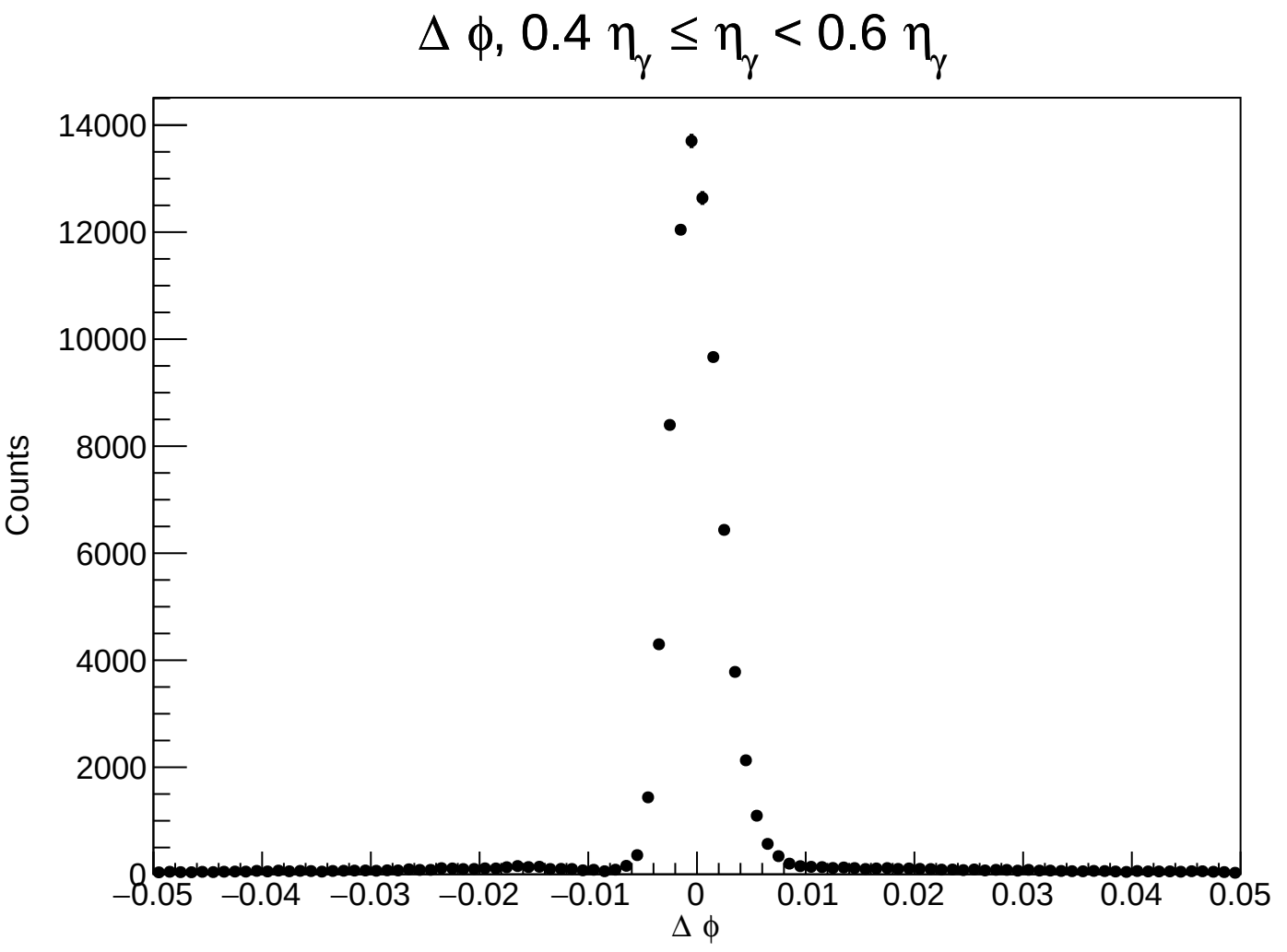

Δ ϕ, -0.2 η_γ ≤ η_γ < 0.0 η_γ
μ=-0.00037±0.00003
σ=0.00235±0.00006
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

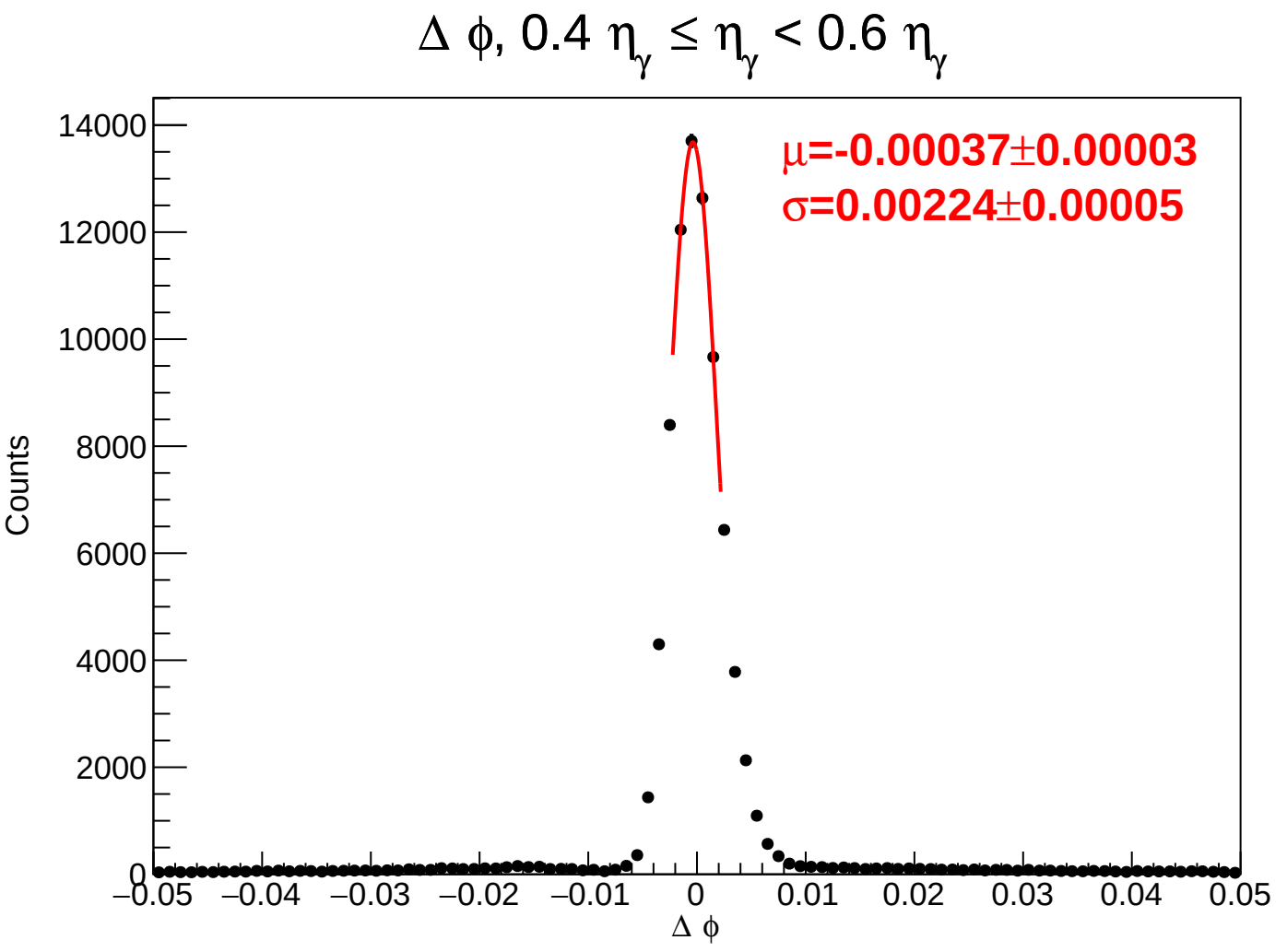

Δ ϕ, 0.0 η_γ ≤ η_γ < 0.2 η_γ
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

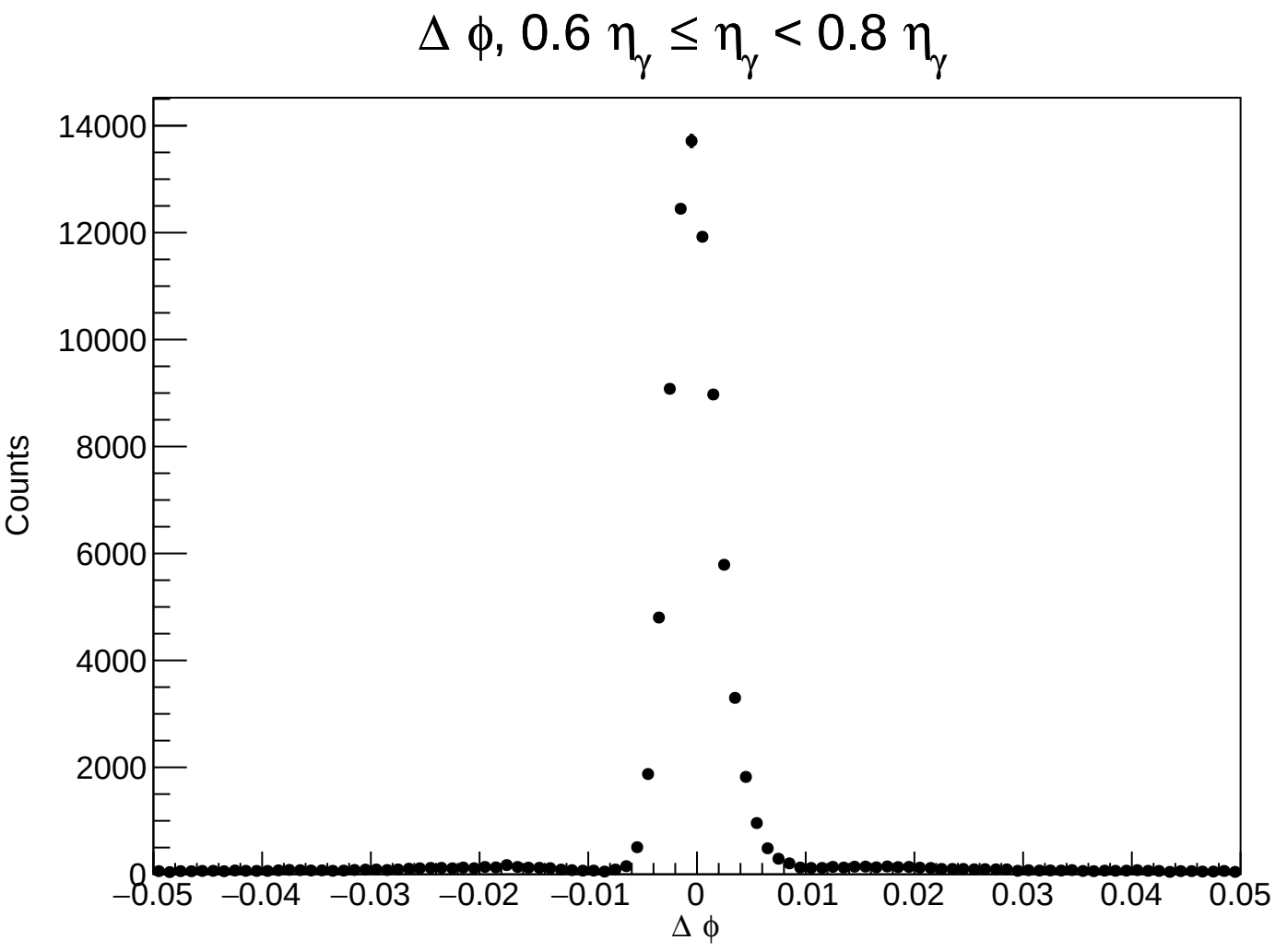

Δ ϕ, 0.0 η_γ ≤ η_γ < 0.2 η_γ
μ=-0.00040±0.00003
σ=0.00248±0.00007
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

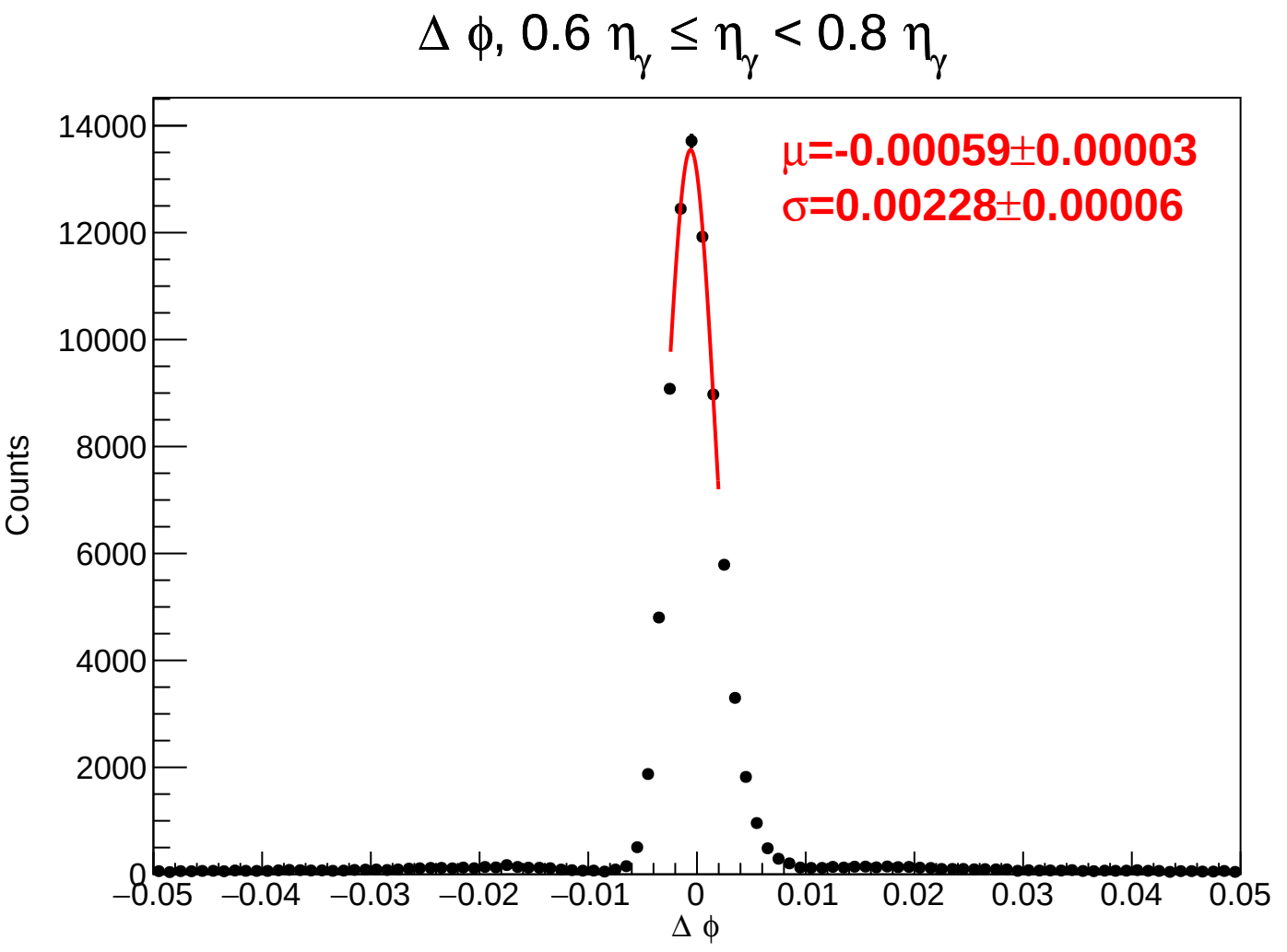

Δ ϕ, 0.2 η_γ ≤ η_γ < 0.4 η_γ
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

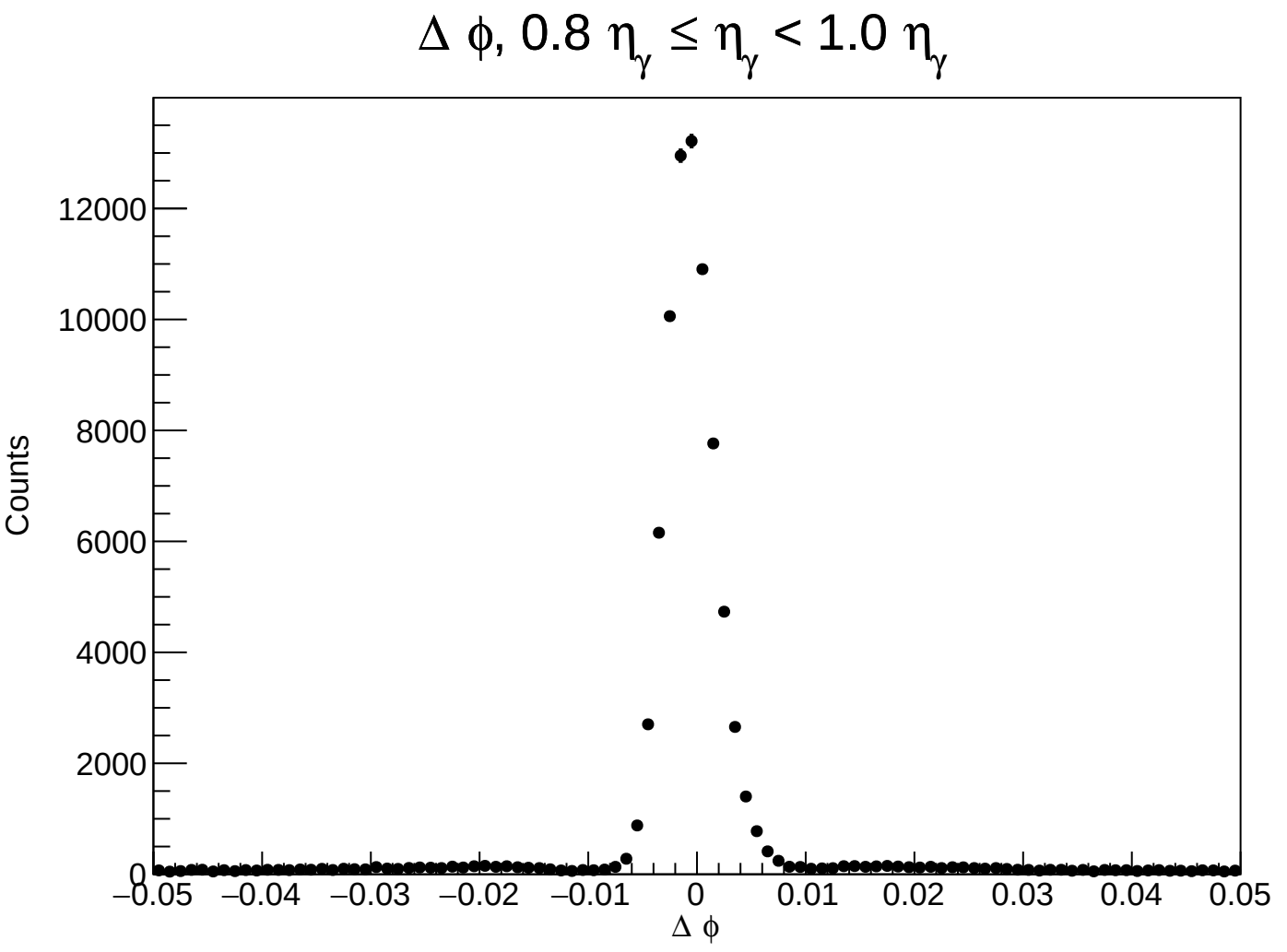

Δ ϕ, 0.2 η_γ ≤ η_γ < 0.4 η_γ
μ=-0.00046±0.00003
σ=0.00244±0.00007
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

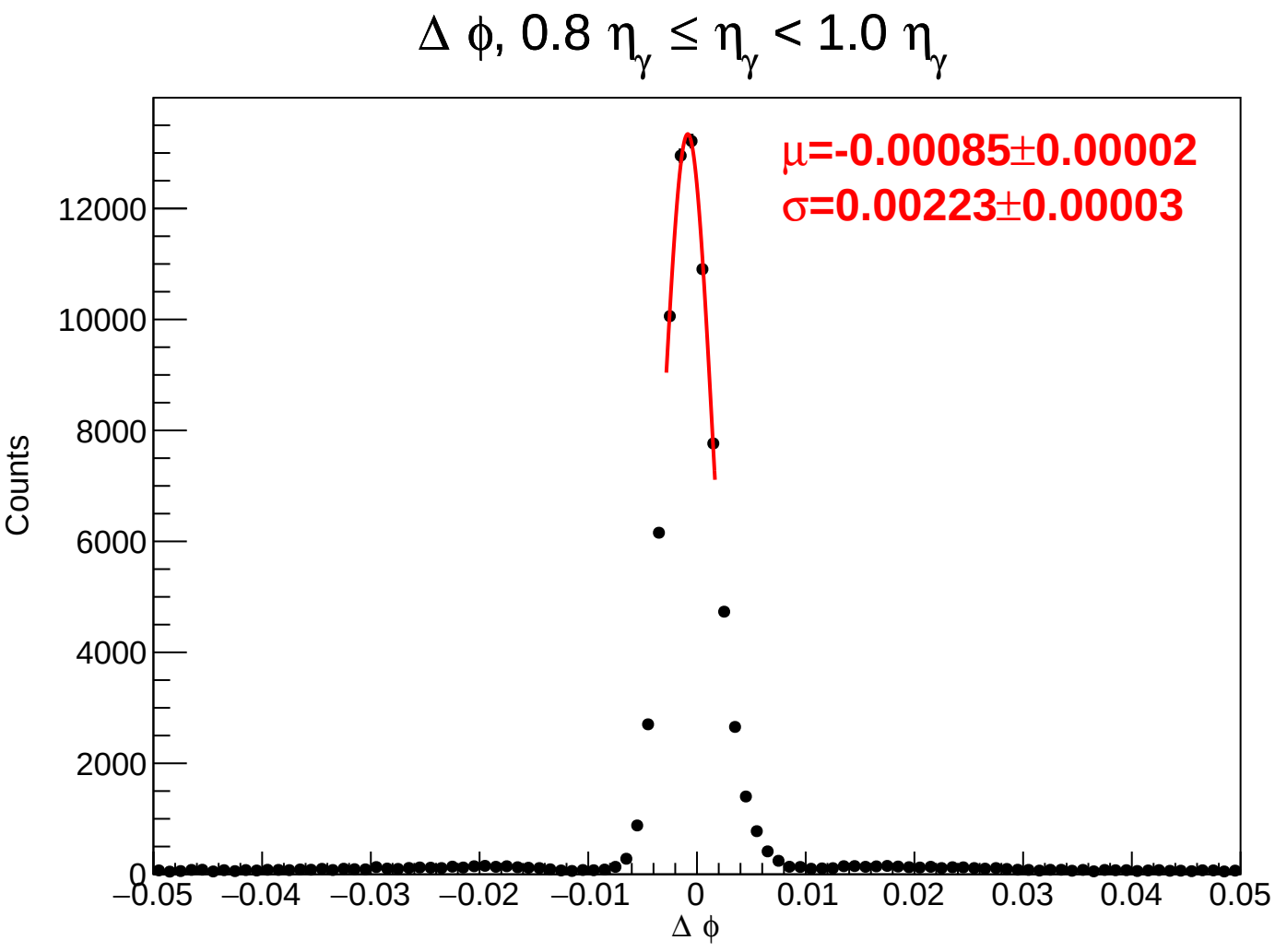

Δ ϕ, 0.4 η_γ ≤ η_γ < 0.6 η_γ
Counts
14000
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

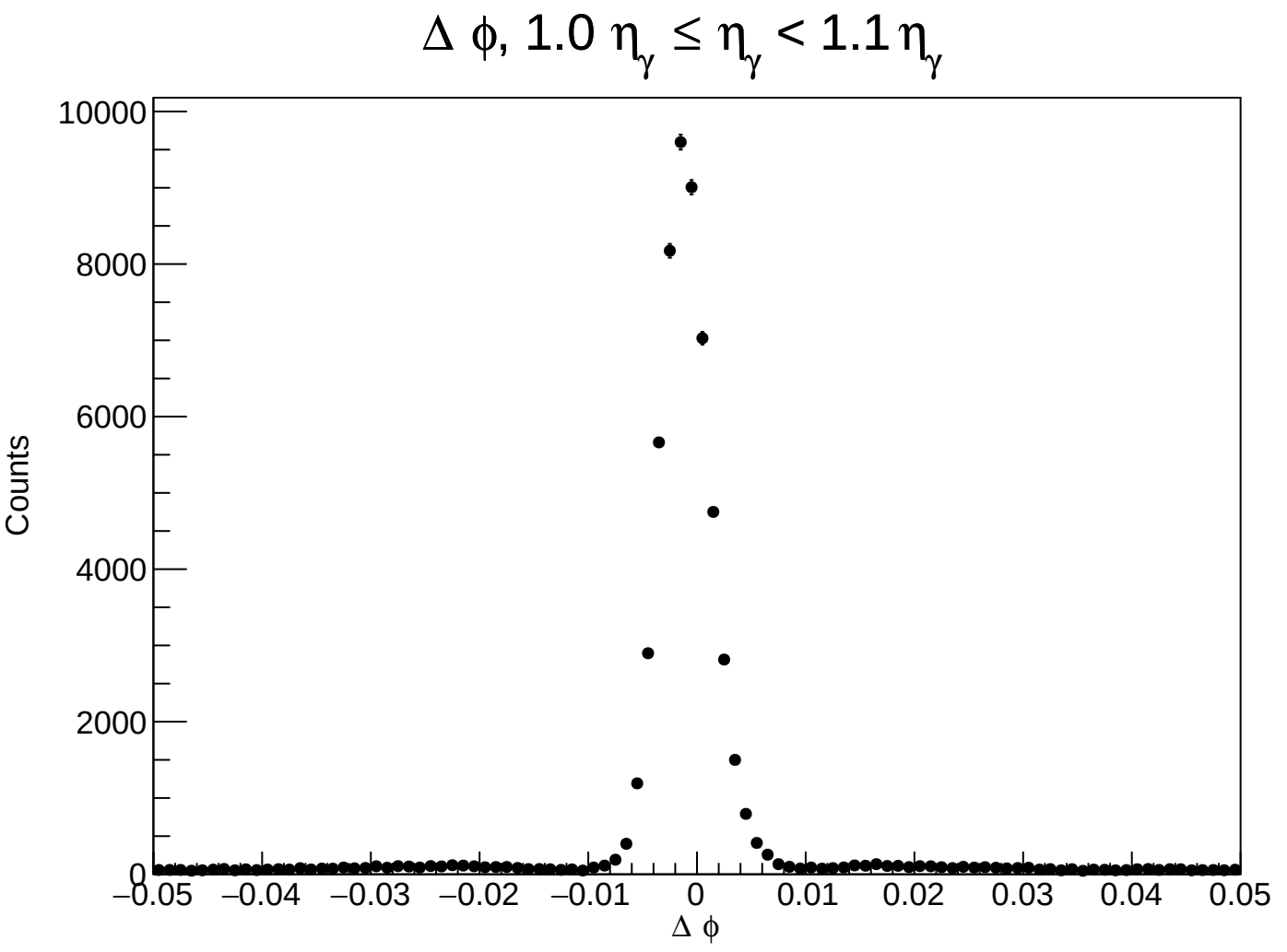

Δ ϕ, 0.4 η_γ ≤ η_γ < 0.6 η_γ
μ=-0.00037±0.00003
σ=0.00224±0.00005
Counts
Δ ϕ
14000
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

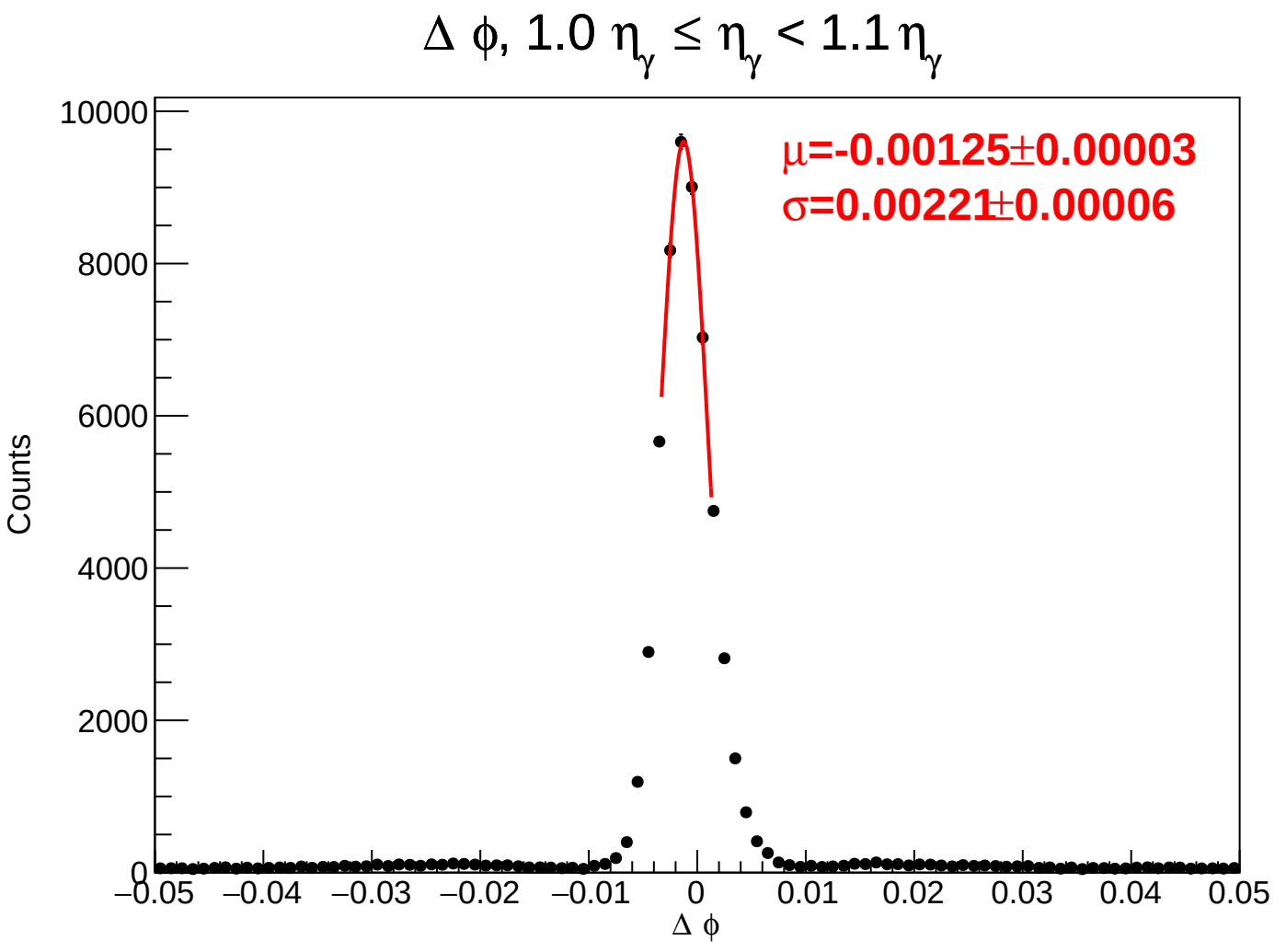

Δ ϕ, 0.6 η_γ ≤ η_γ < 0.8 η_γ
Counts
14000
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

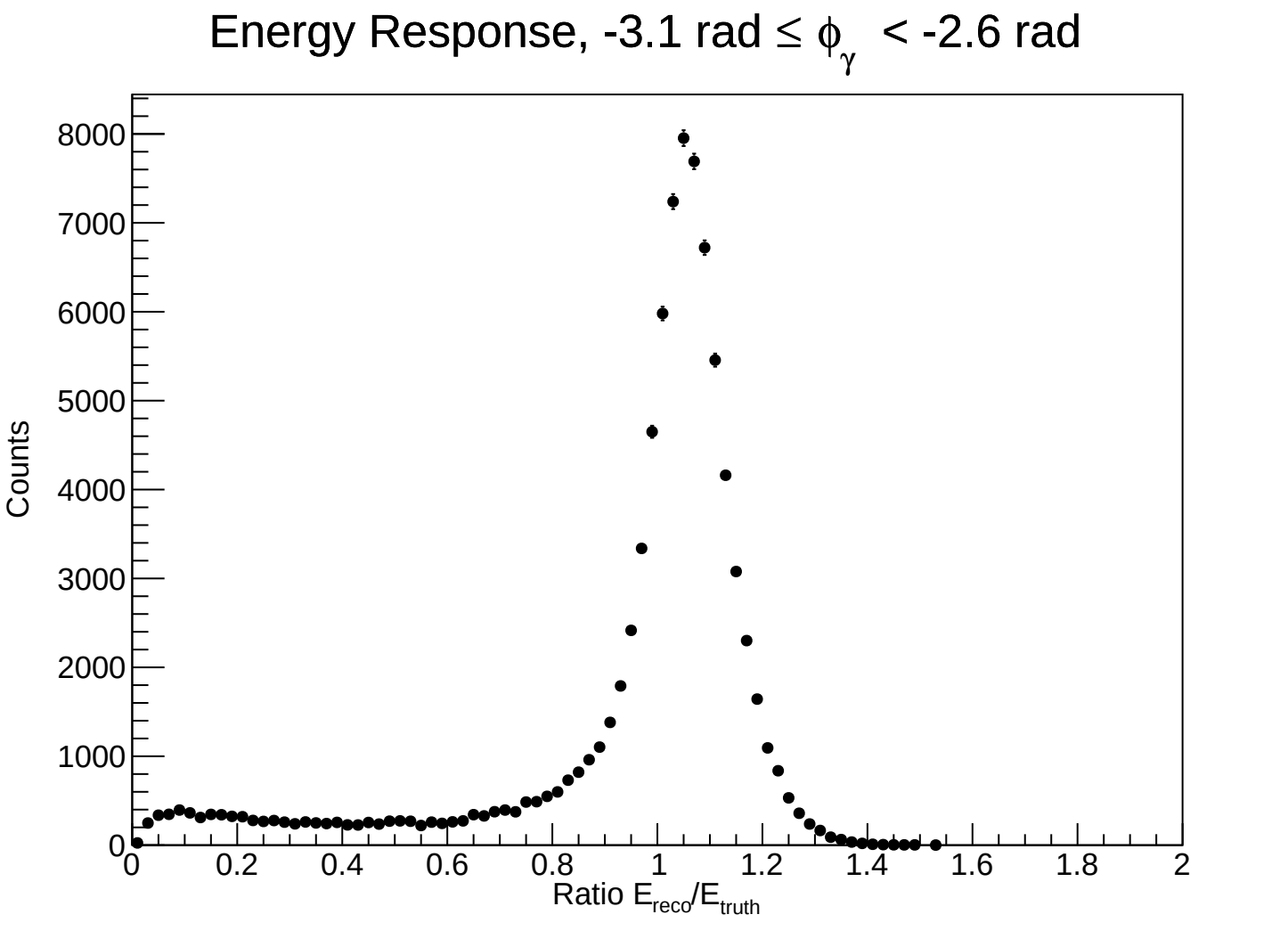

Δ ϕ, 0.6 η_γ ≤ η_γ < 0.8 η_γ
μ=-0.00059±0.00003
σ=0.00228±0.00006
Counts
Δ ϕ
14000
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

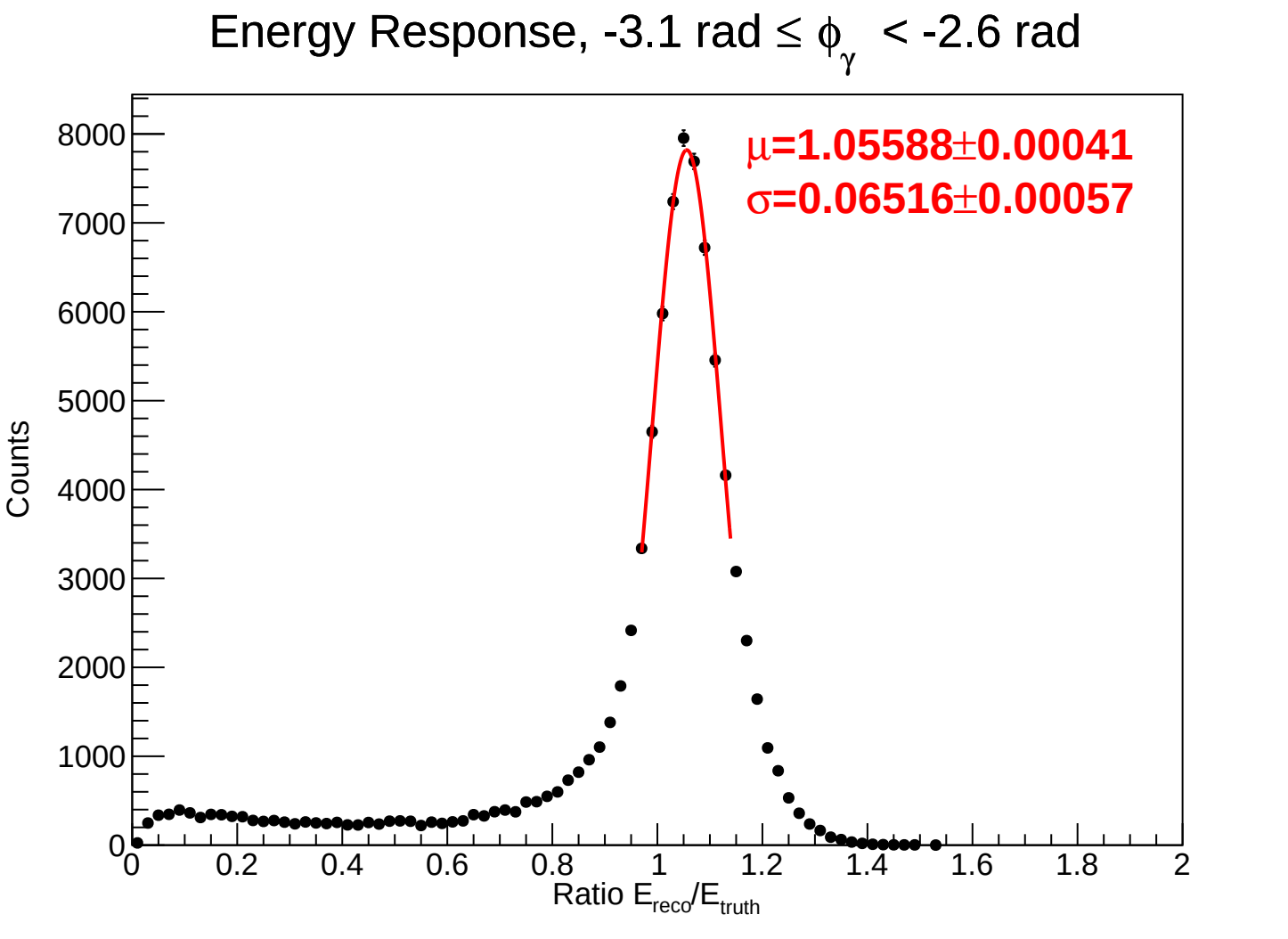

Δ ϕ, 0.8 η_γ ≤ η_γ < 1.0 η_γ
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

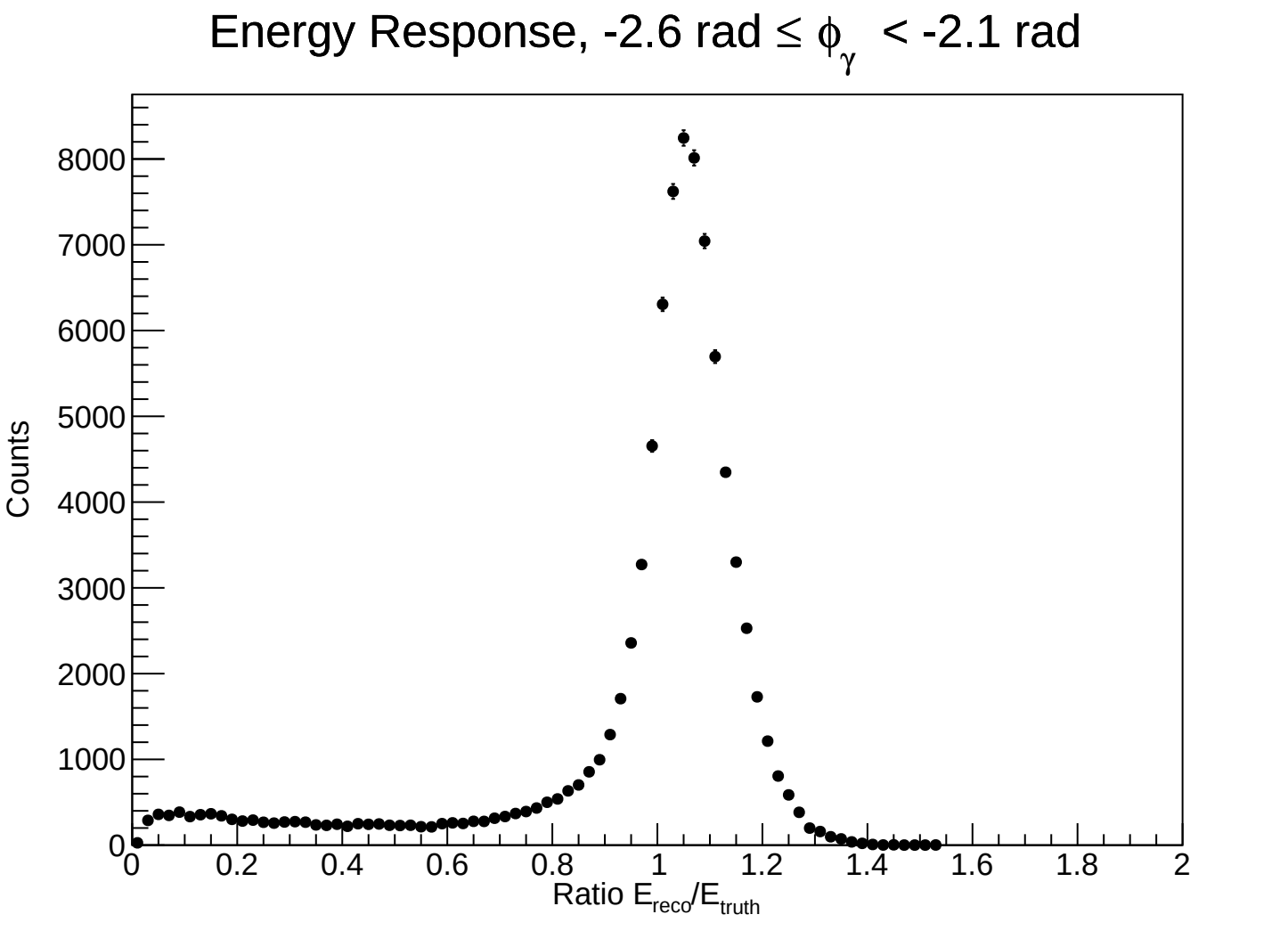

Δ ϕ, 0.8 η_γ ≤ η_γ < 1.0 η_γ
μ=-0.00085±0.00002
σ=0.00223±0.00003
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

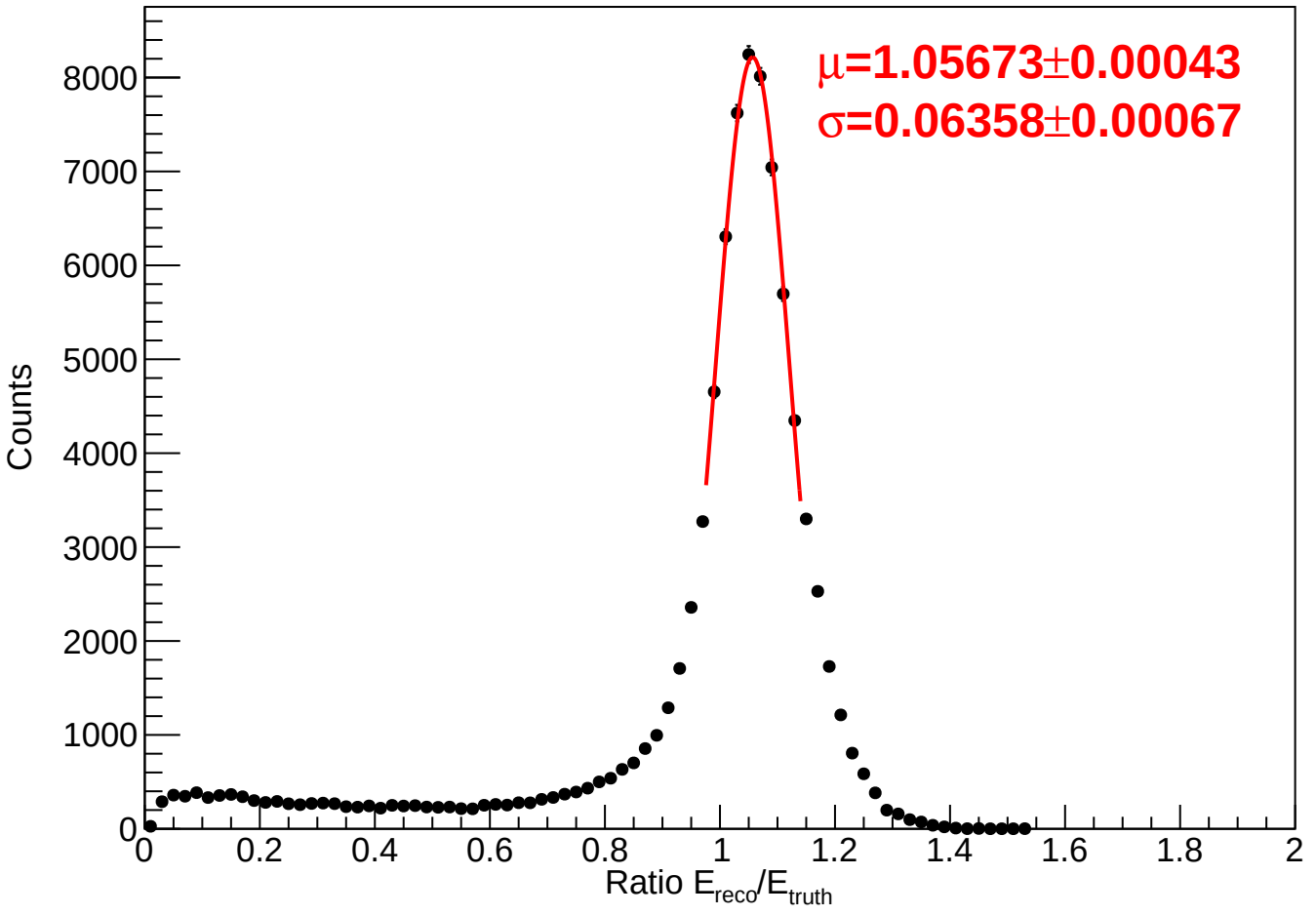

Δ ϕ, 1.0 η_γ ≤ η_γ < 1.1 η_γ
Counts
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

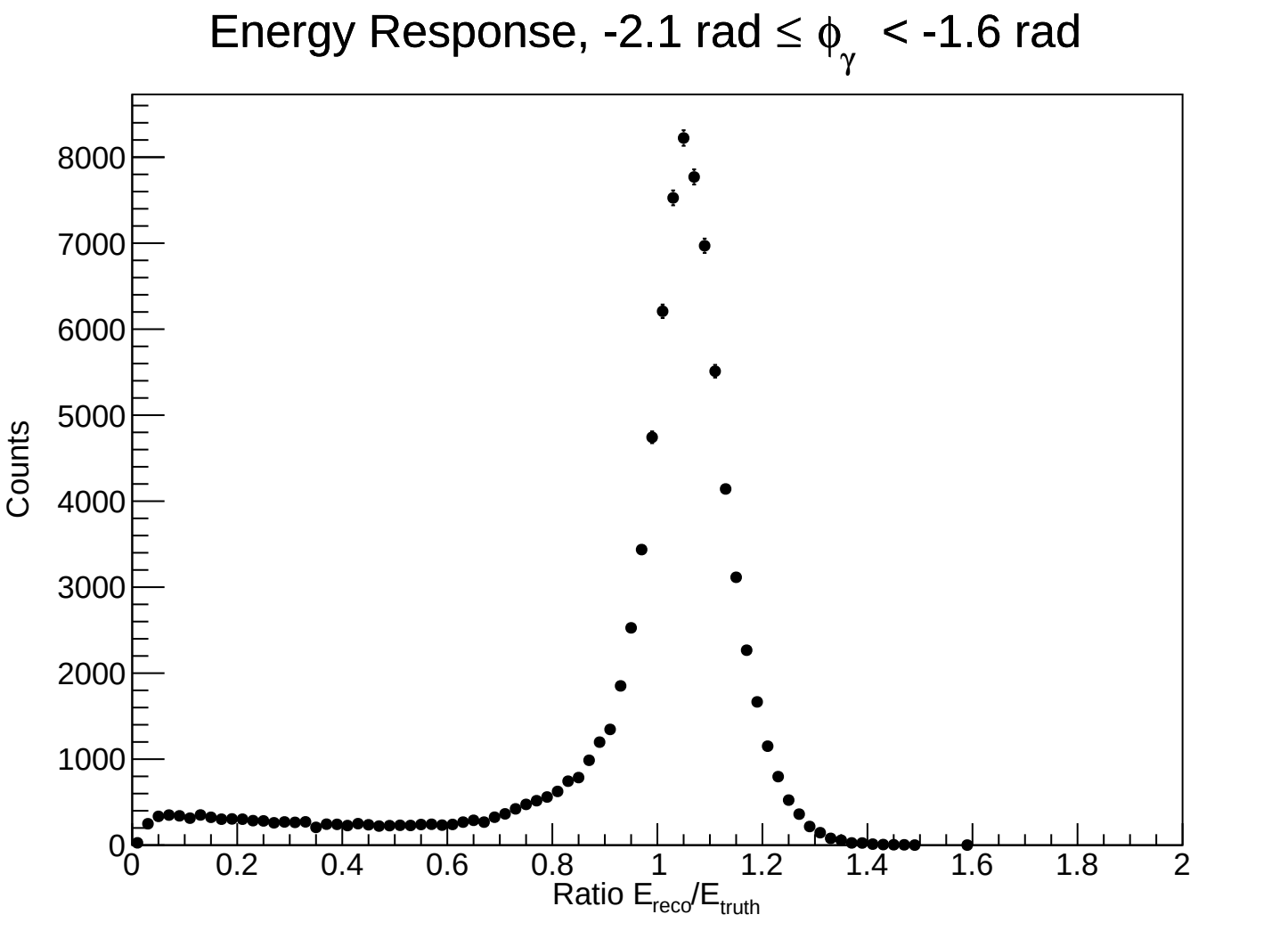

Δ ϕ, 1.0 η_γ ≤ η_γ < 1.1 η_γ
μ=-0.00125±0.00003
σ=0.00221±0.00006
Counts
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

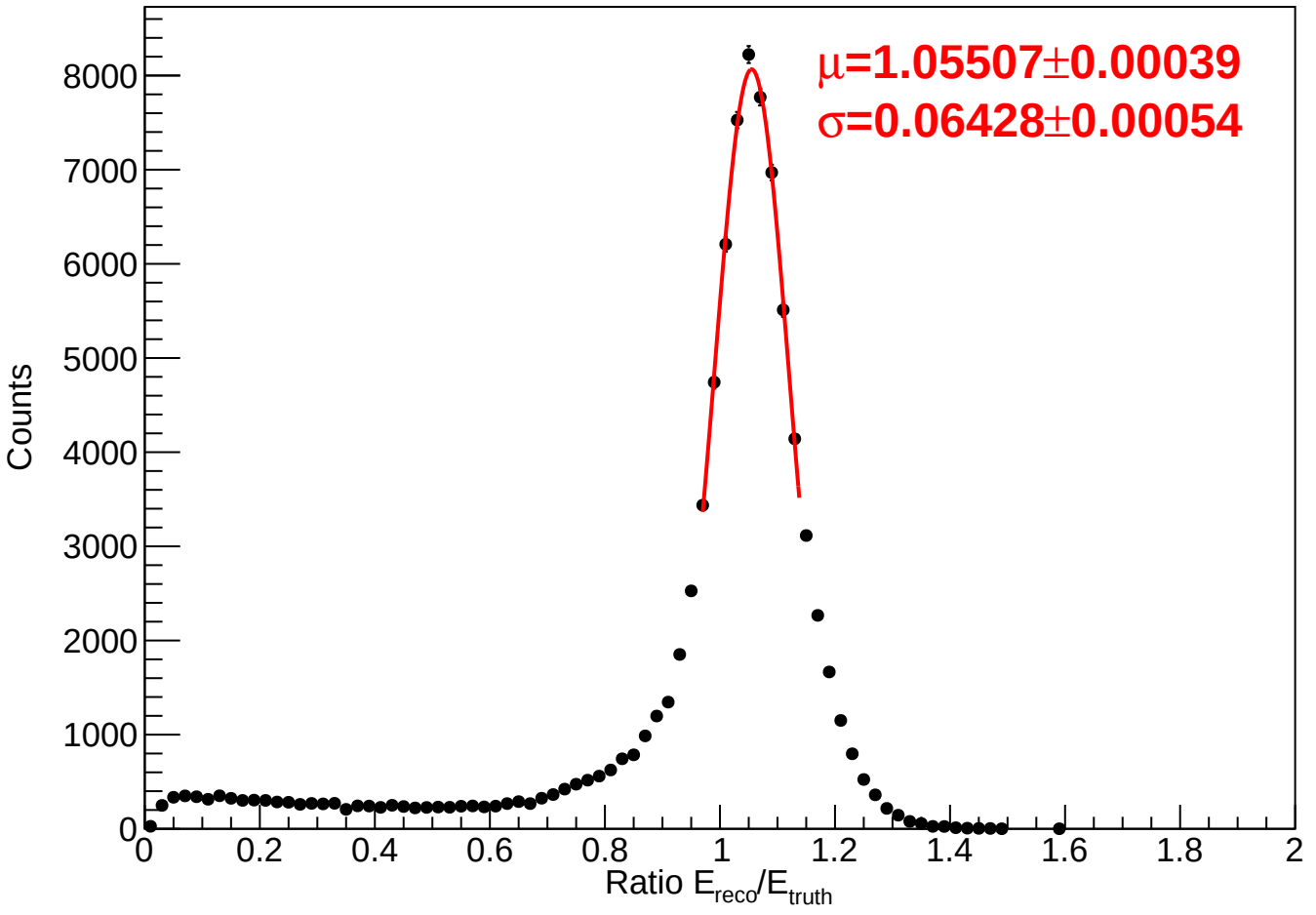

Energy Response, -3.1 rad ≤ ϕγ < -2.6 rad
Counts
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio Ereco/Etruth

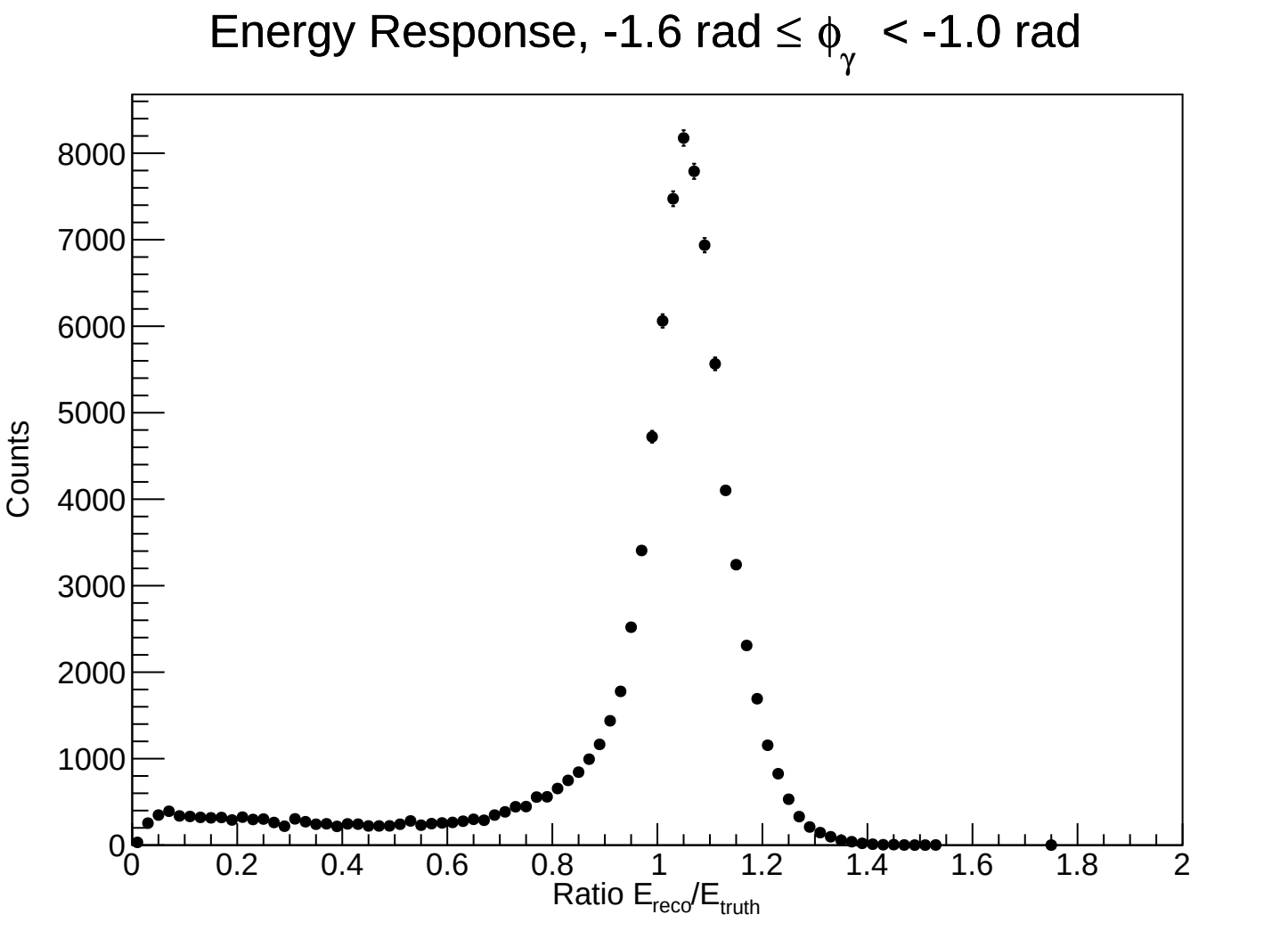

Energy Response, -3.1 rad ≤ ϕγ < -2.6 rad
μ=1.05588±0.00041
σ=0.06516±0.00057
Counts
Ratio Ereco/Etruth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

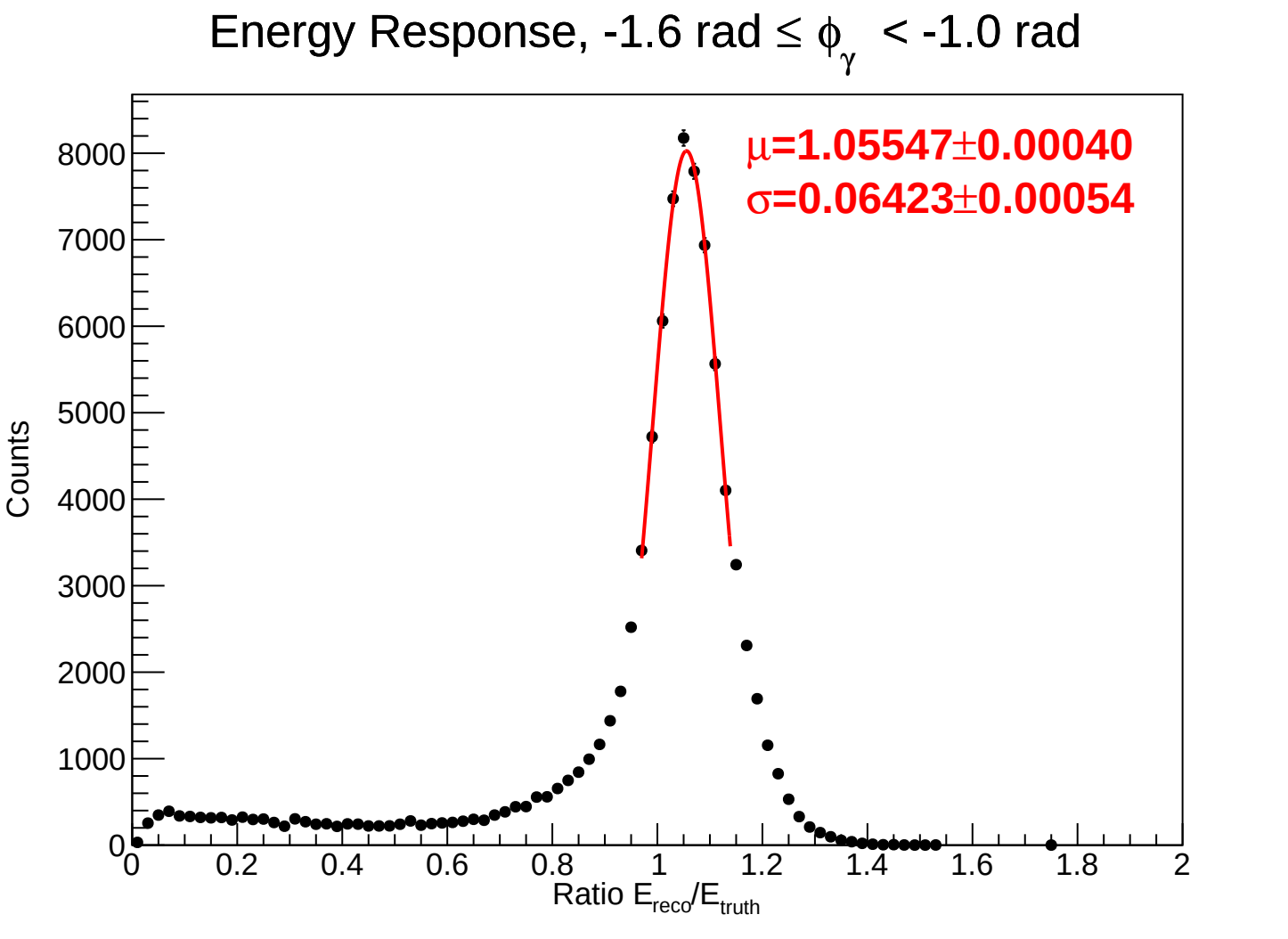

Energy Response, -2.6 rad ≤ ϕγ < -2.1 rad
Counts
Ratio Ereco/Etruth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

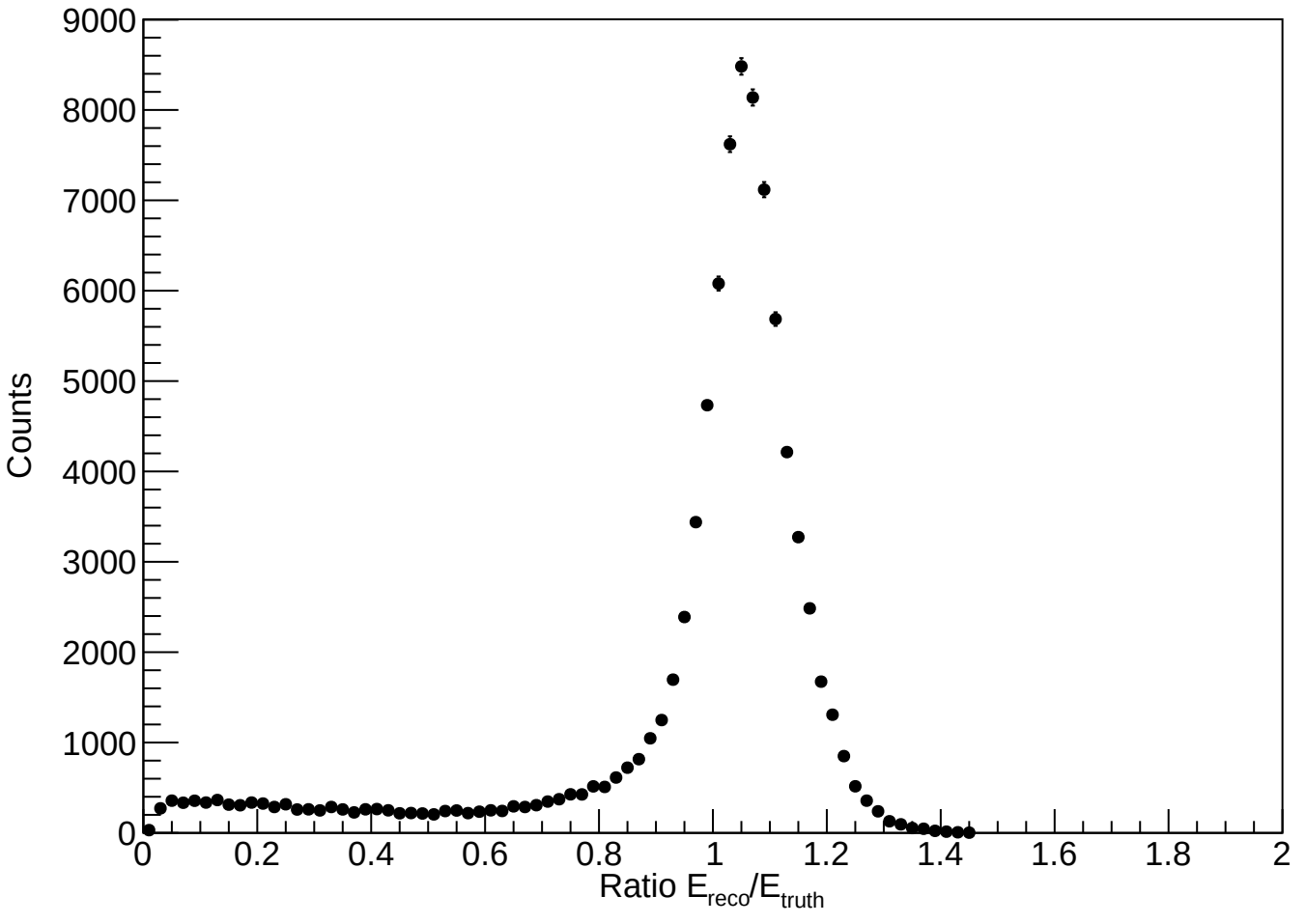

Energy Response, -2.6 rad ≤ ϕγ < -2.1 rad
μ=1.05673±0.00043
σ=0.06358±0.00067
Counts
Ratio Ereco/Etruth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

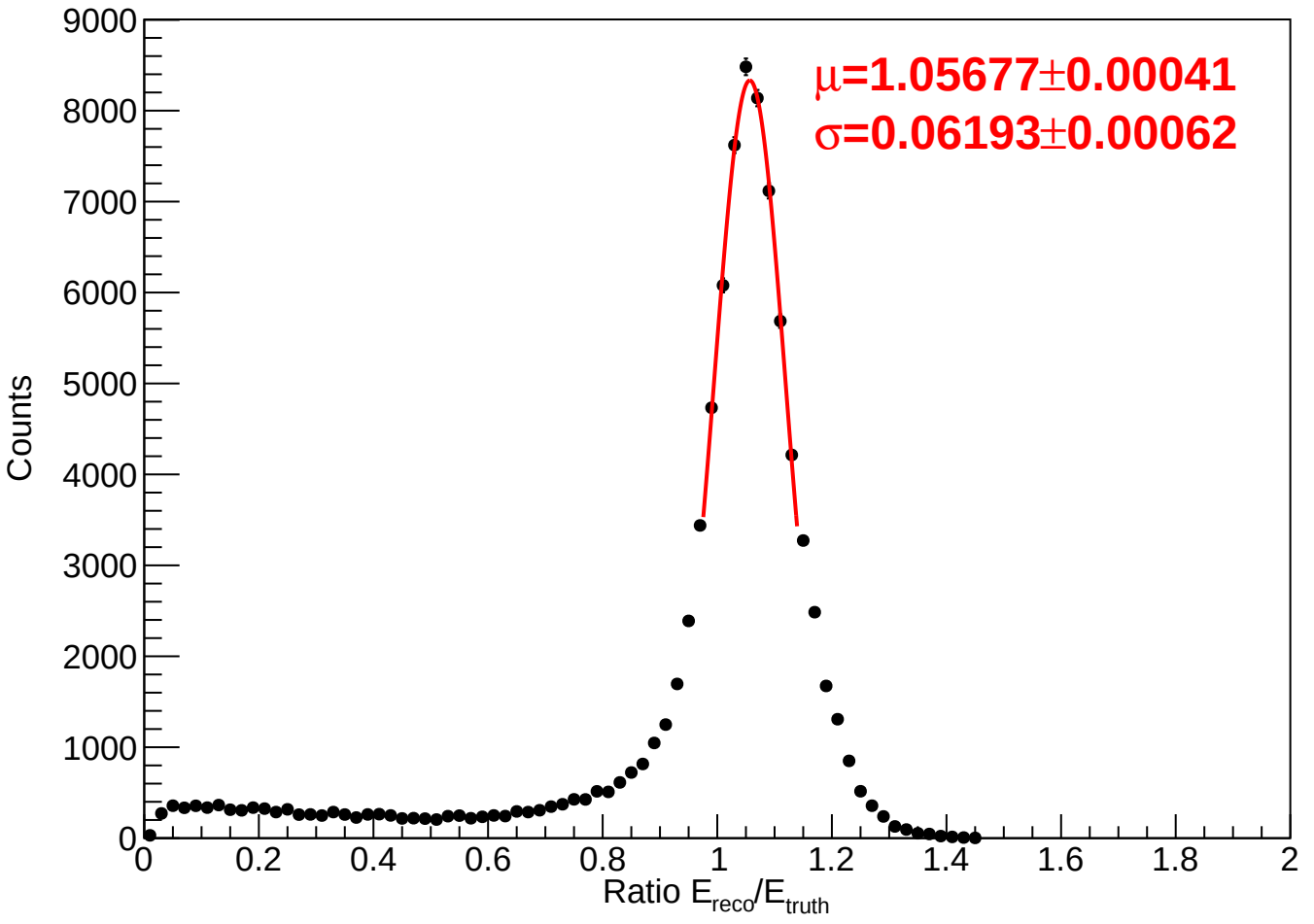

Energy Response, -2.1 rad ≤ ϕγ < -1.6 rad
Counts
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio Ereco/Etruth

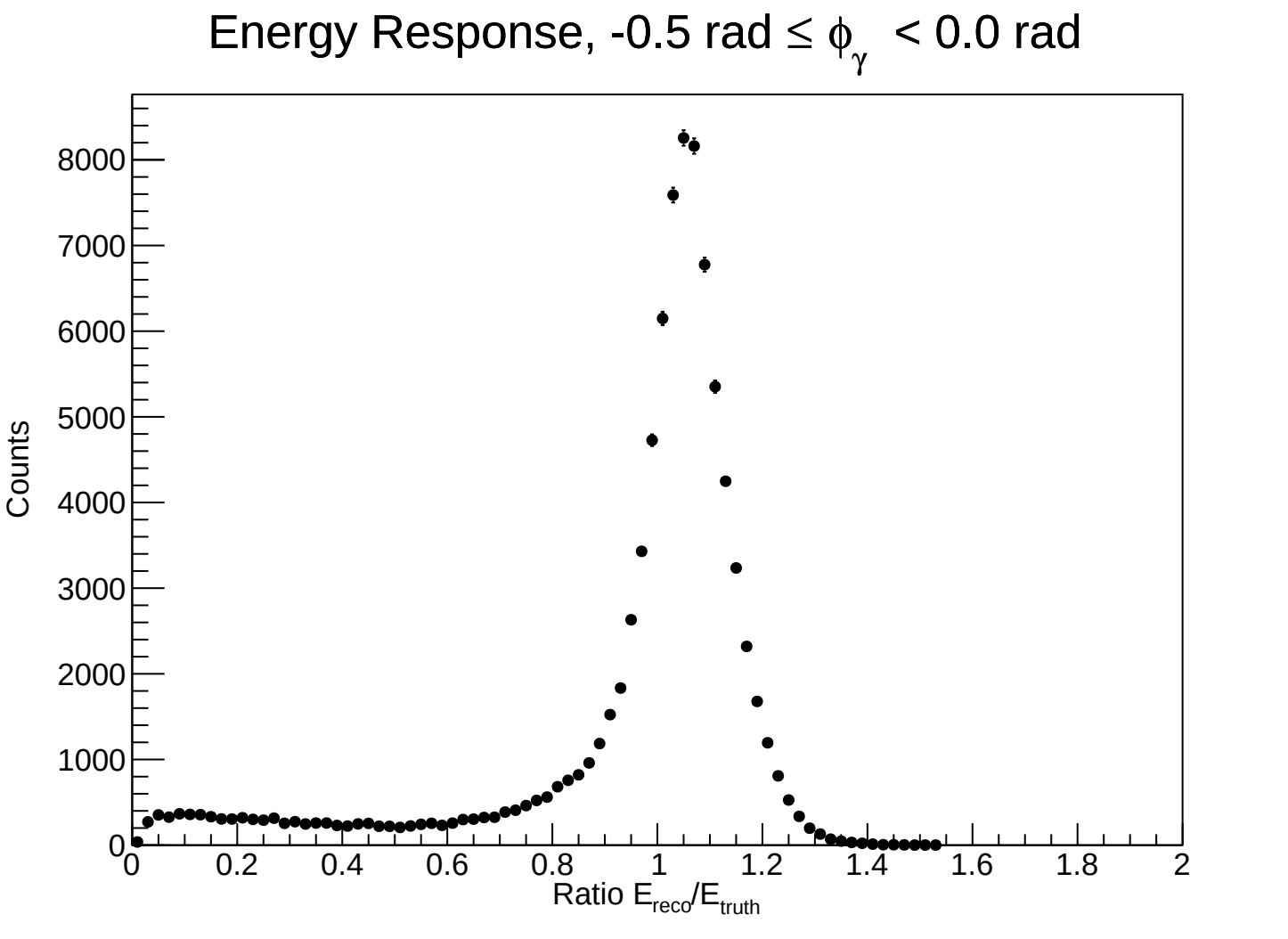

Energy Response, -2.1 rad ≤ ϕγ < -1.6 rad
μ=1.05507±0.00039
σ=0.06428±0.00054
Counts
Ratio Ereco/Etruth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

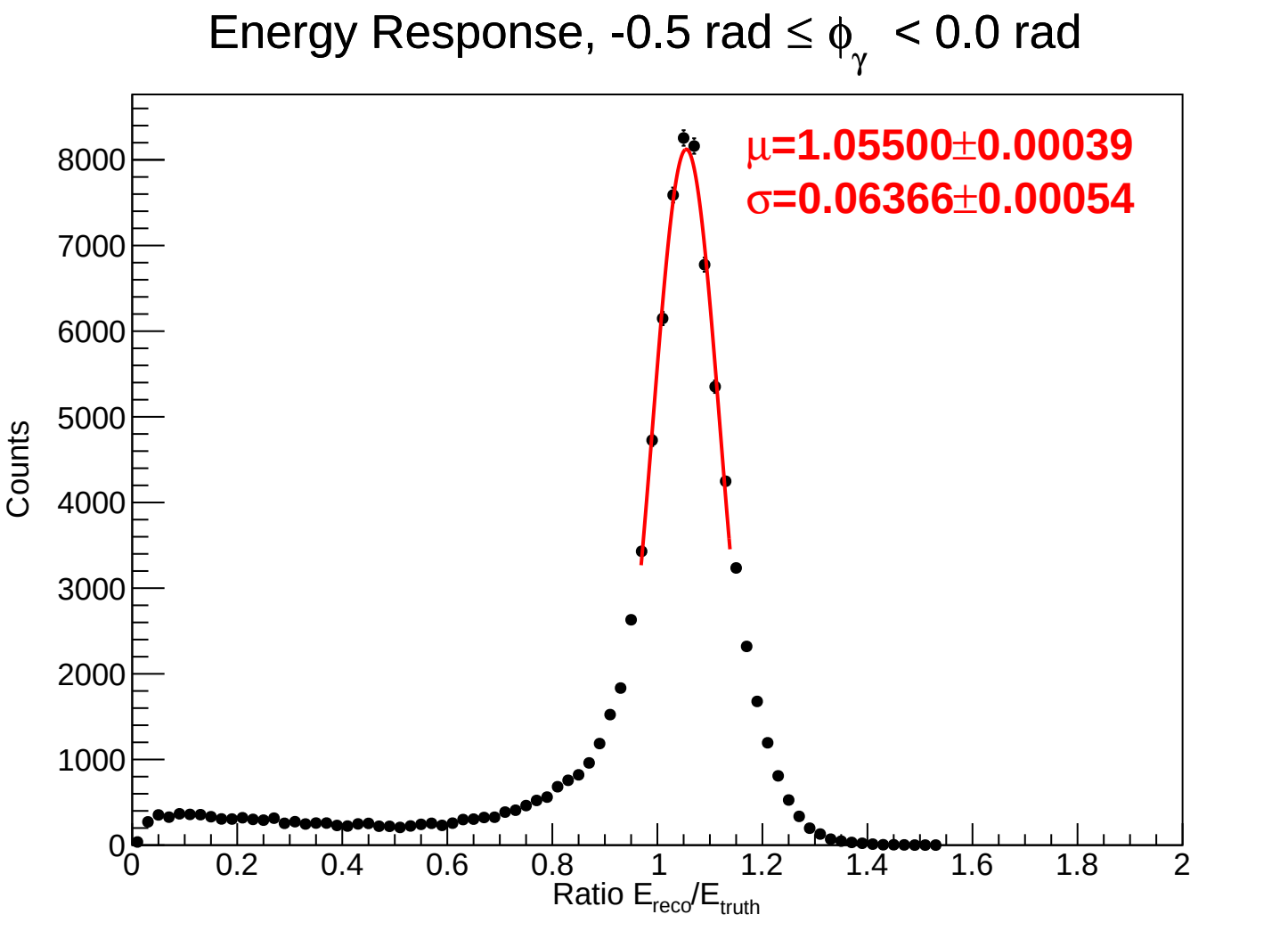

Energy Response, -1.6 rad ≤ ϕγ < -1.0 rad
Counts
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio Ereco/Etruth

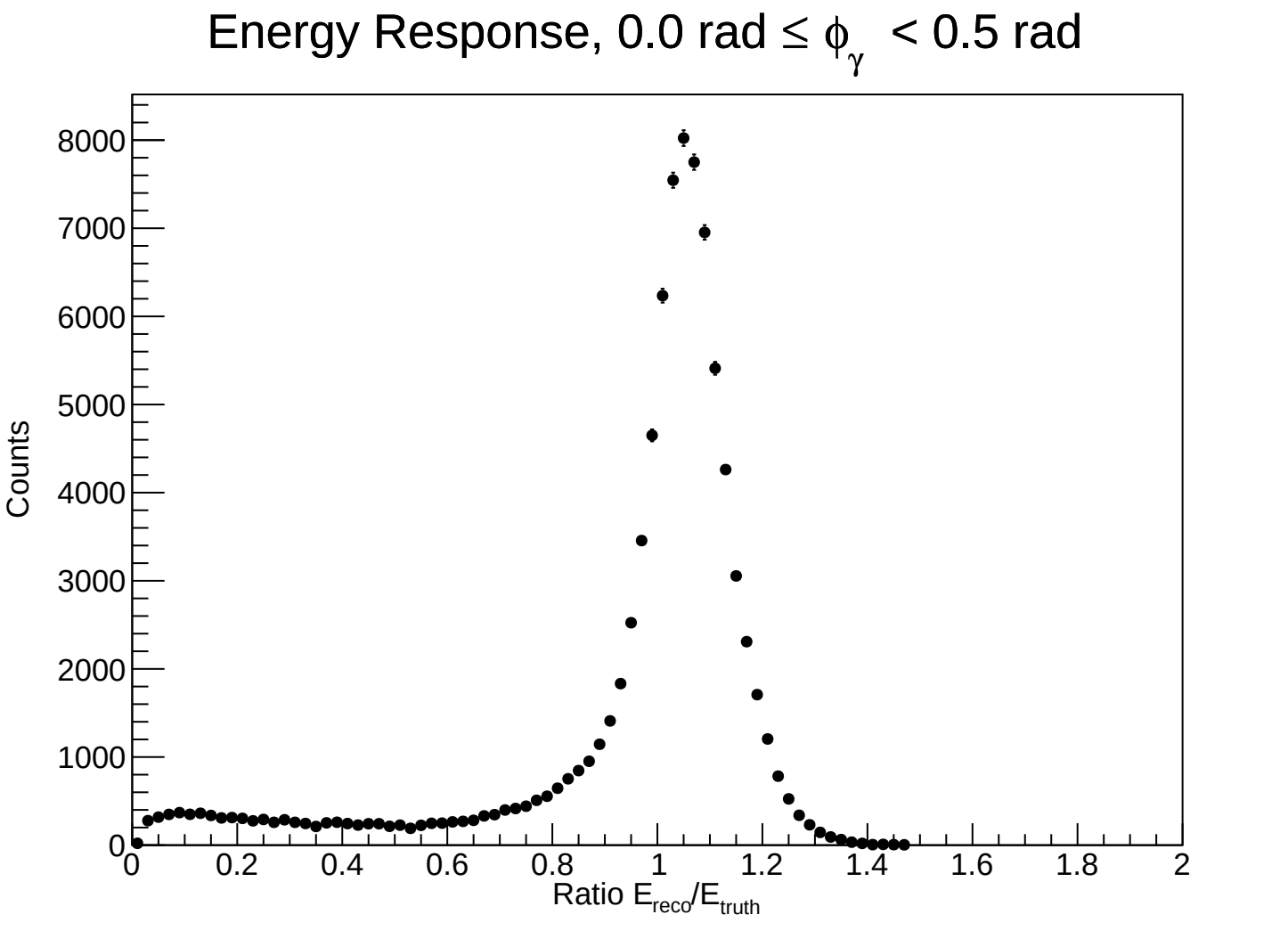

Energy Response, -1.6 rad ≤ ϕγ < -1.0 rad
μ=1.05547±0.00040
σ=0.06423±0.00054
Counts
Ratio Ereco/Etruth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

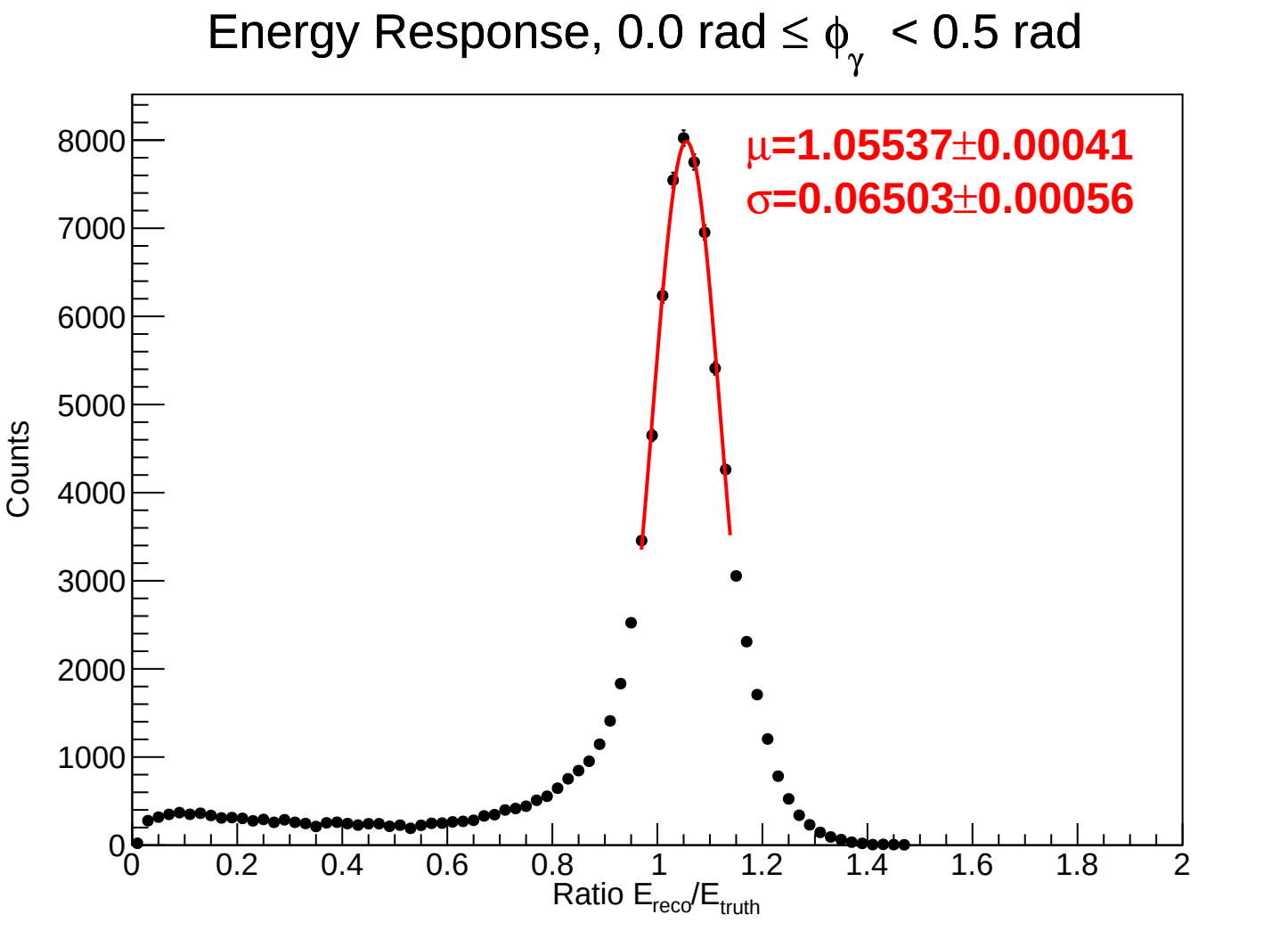

Energy Response, -1.0 rad ≤ ϕγ < -0.5 rad
Counts
Ratio Ereco/Etruth
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

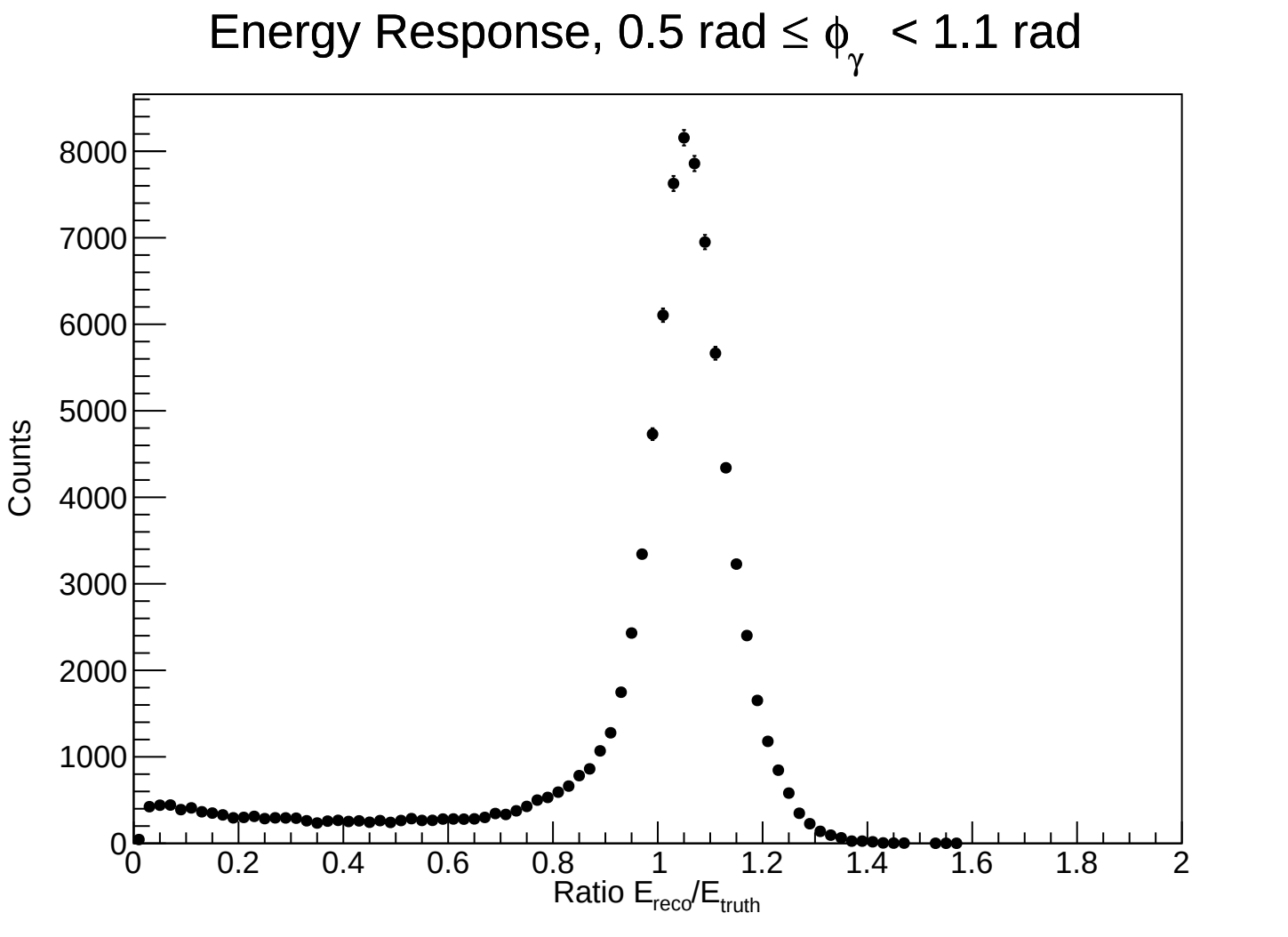

Energy Response, -1.0 rad ≤ ϕγ < -0.5 rad
μ=1.05677±0.00041
σ=0.06193±0.00062
Counts
Ratio Ereco/Etruth
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

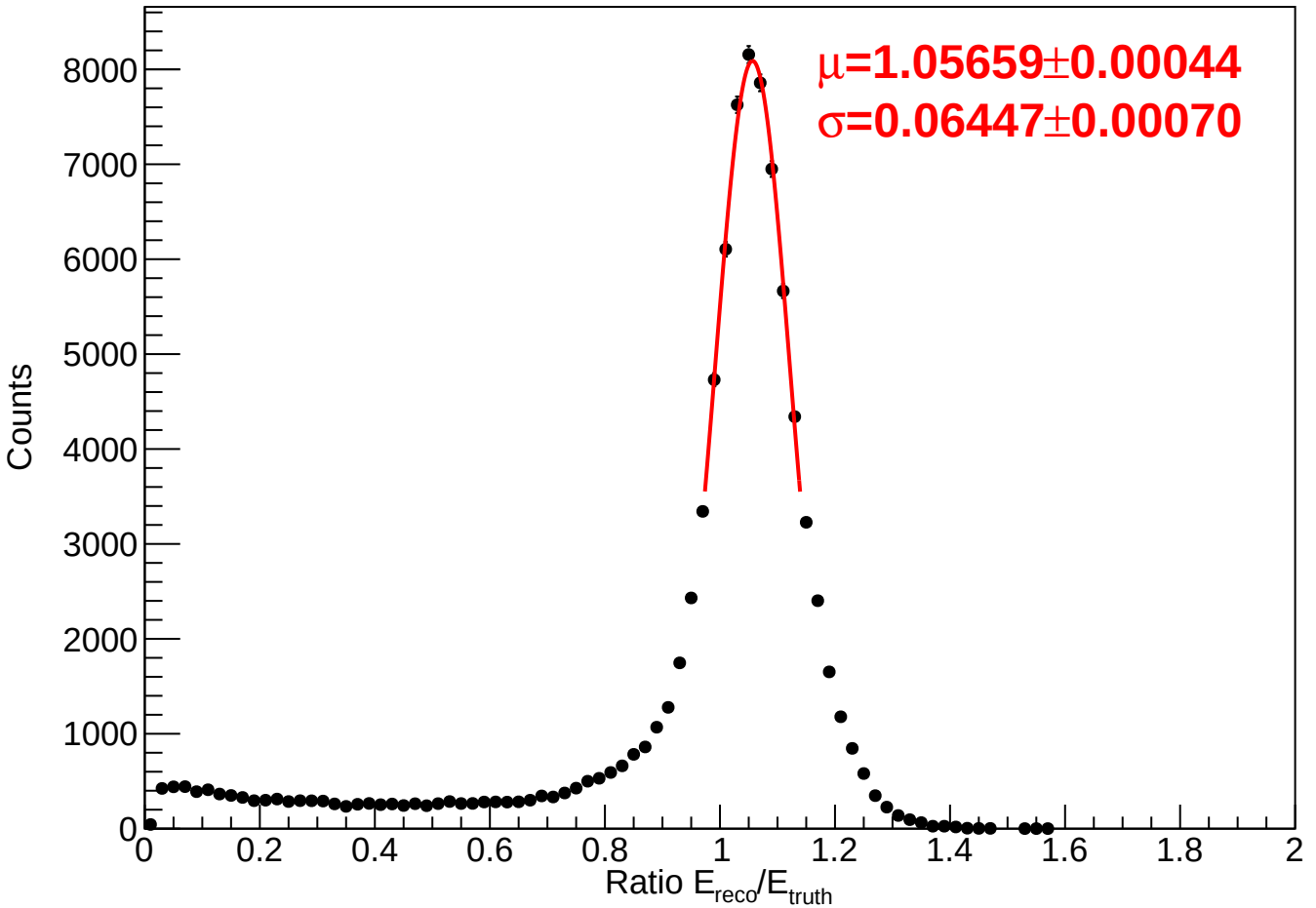

Energy Response, -0.5 rad ≤ ϕγ < 0.0 rad
Counts
Ratio Ereco/Etruth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

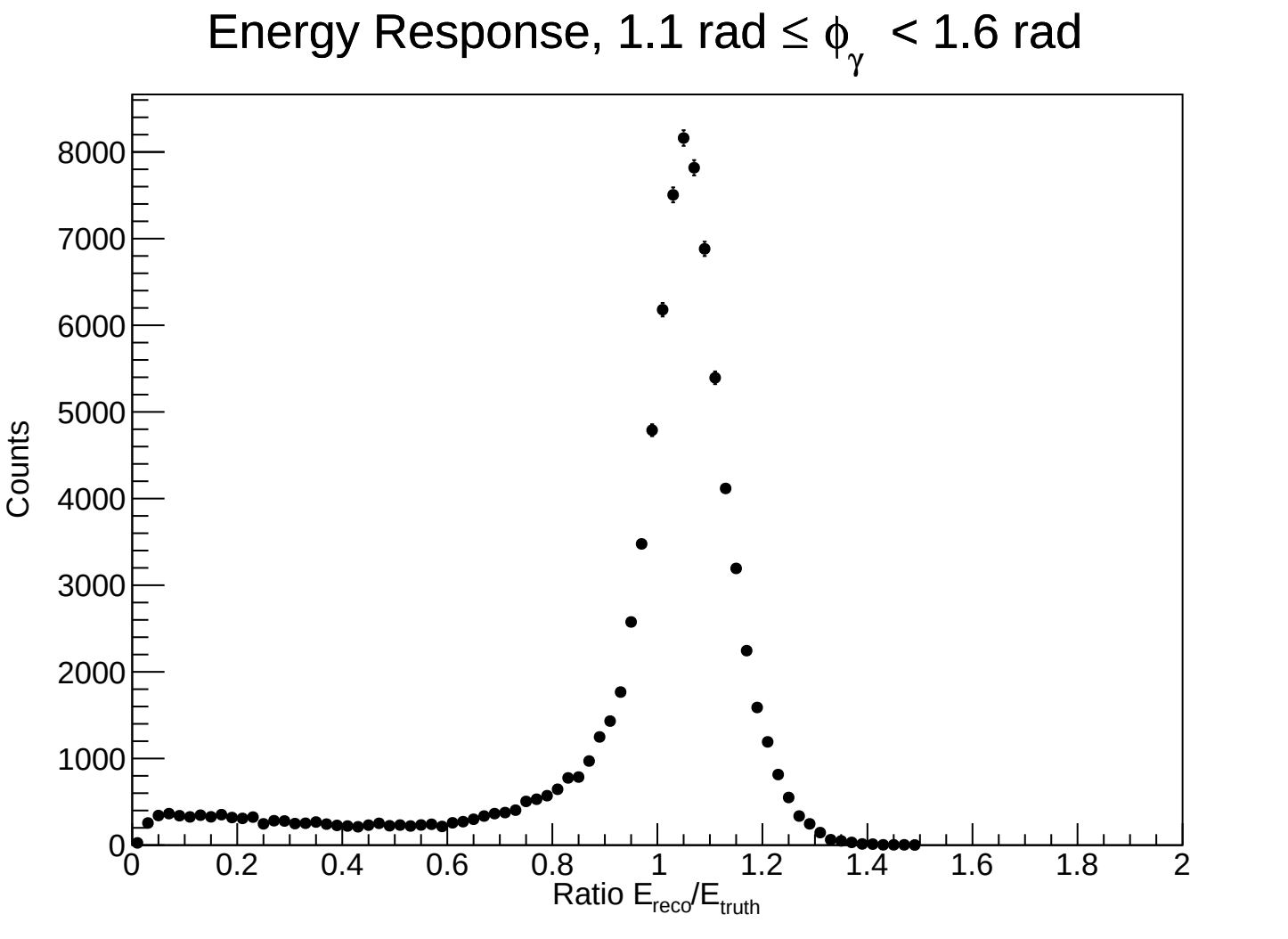

Energy Response, -0.5 rad ≤ ϕγ < 0.0 rad
μ=1.05500±0.00039
σ=0.06366±0.00054
Counts
Ratio Ereco/Etruth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

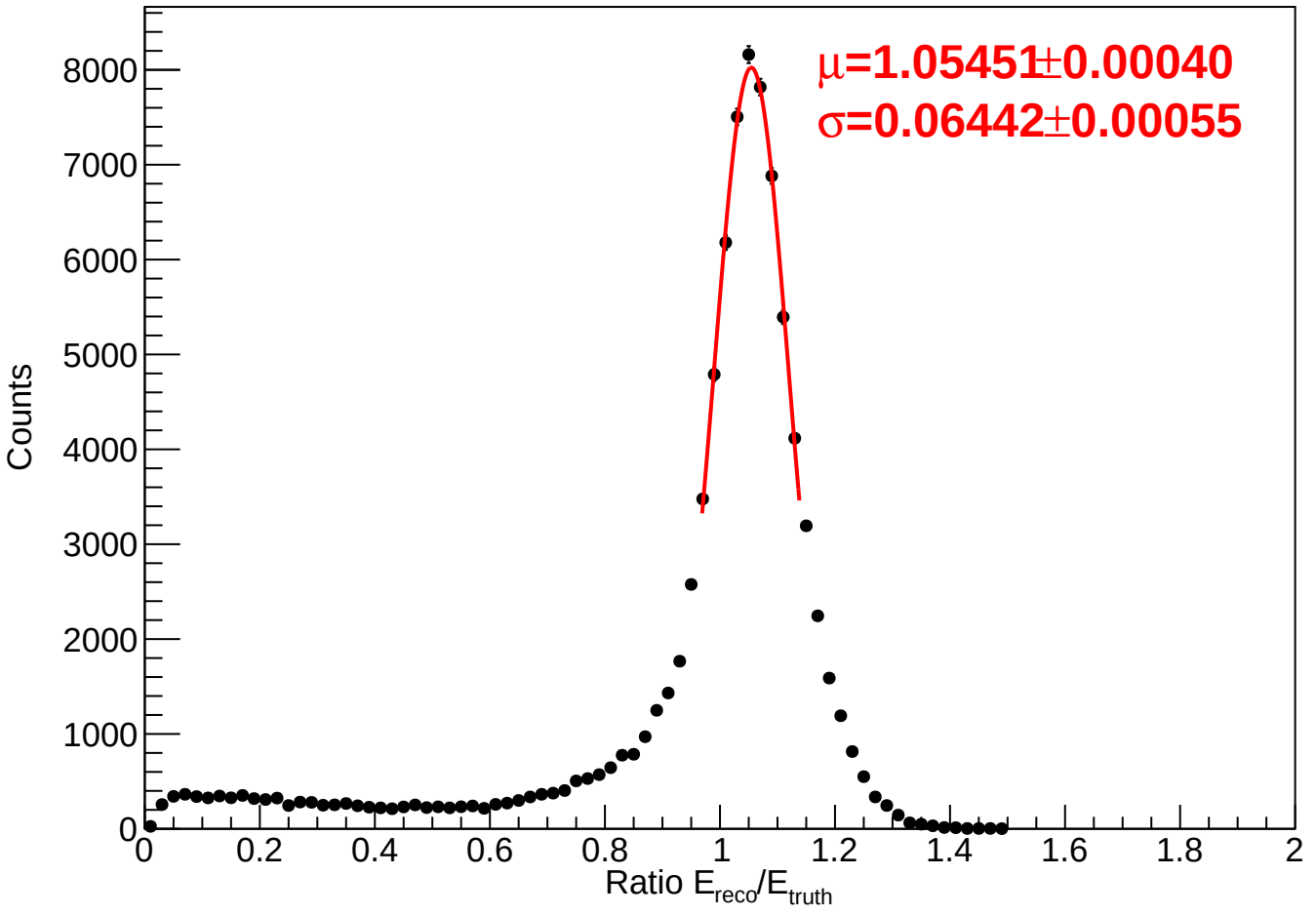

Energy Response, 0.0 rad ≤ ϕγ < 0.5 rad
Counts
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio Ereco/Etruth

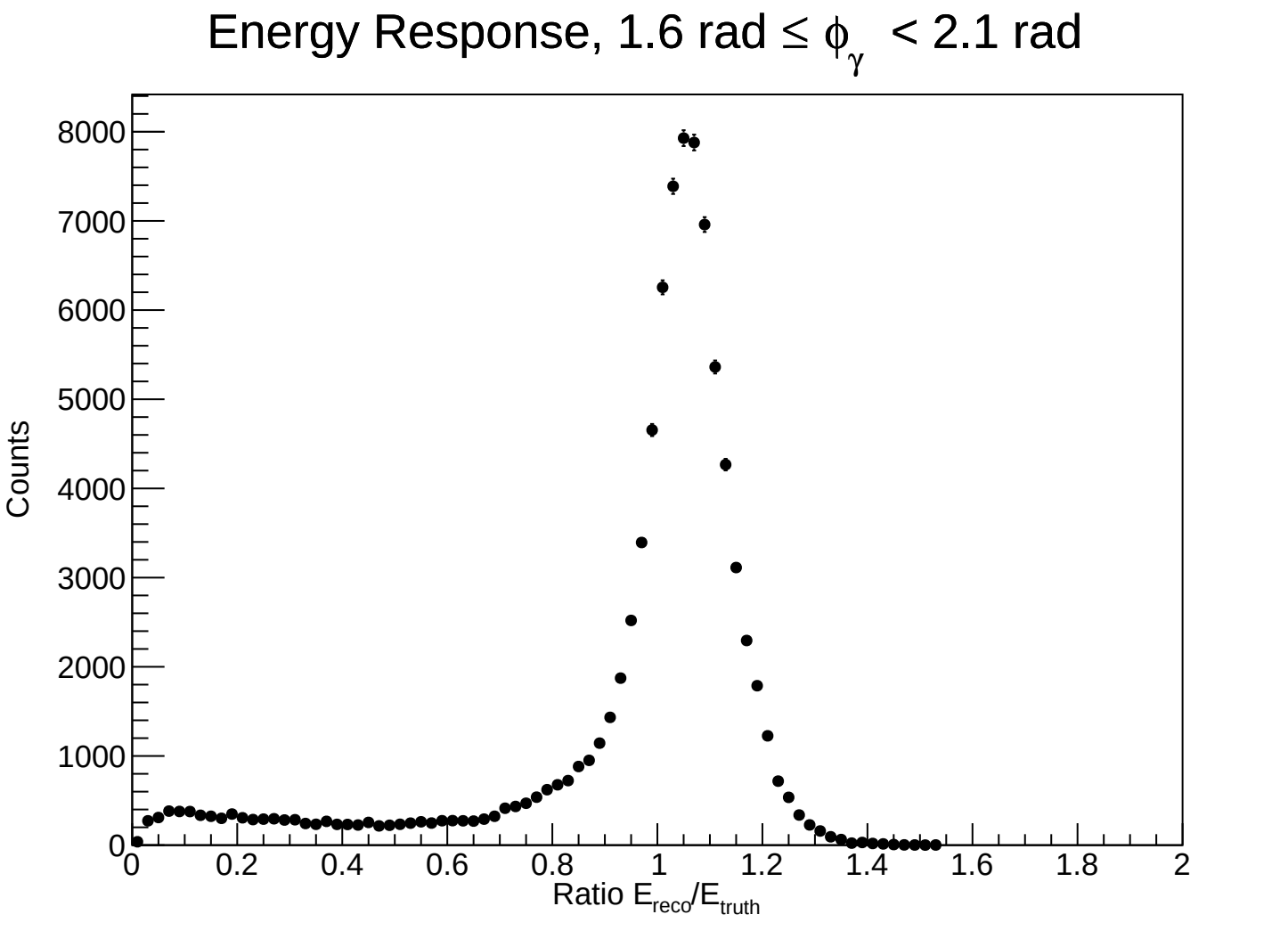

Energy Response, 0.0 rad ≤ ϕγ < 0.5 rad
μ=1.05537±0.00041
σ=0.06503±0.00056
Counts
Ratio Ereco/Etruth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

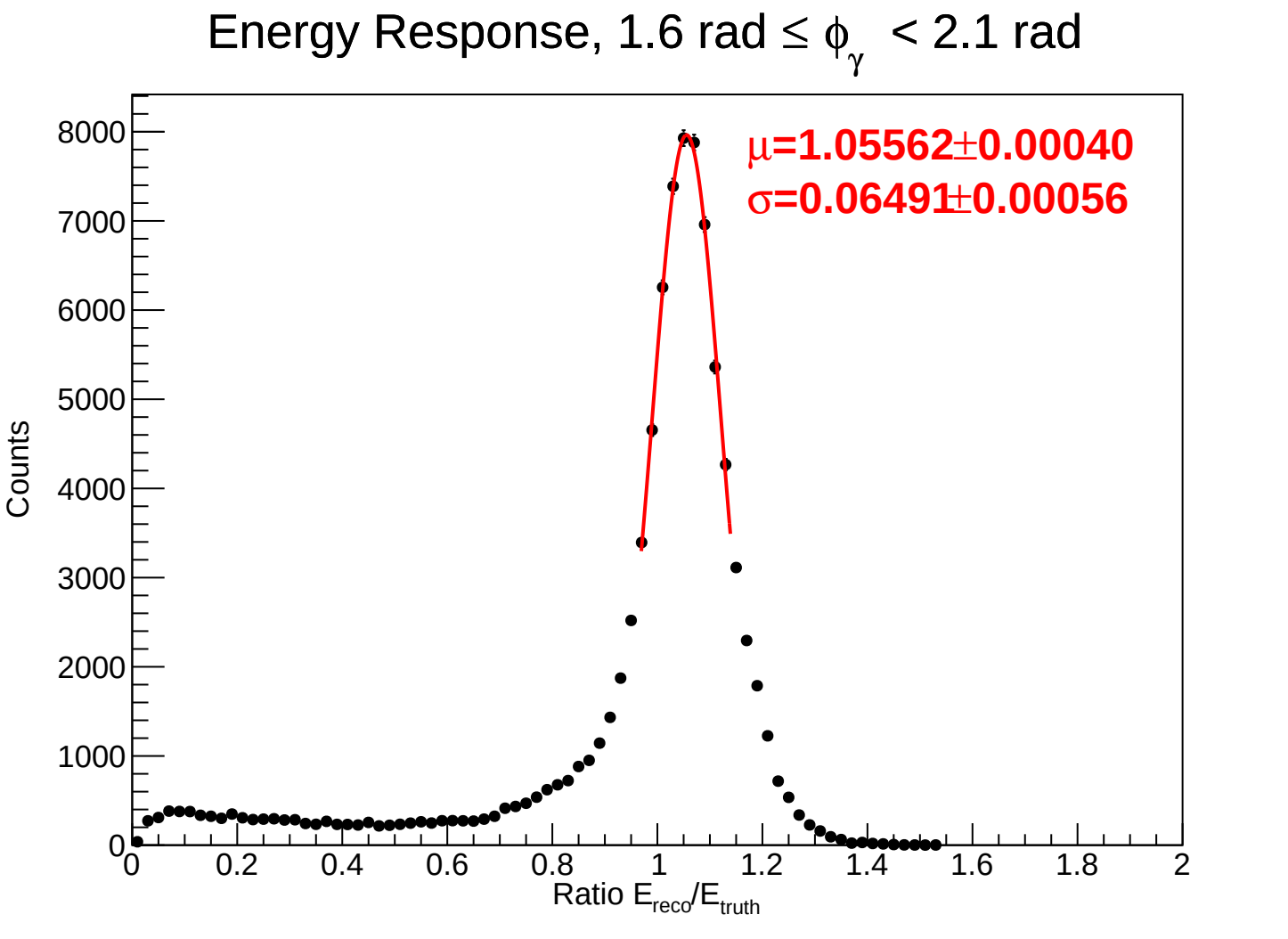

Energy Response, 0.5 rad ≤ ϕγ < 1.1 rad
Counts
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio Ereco/Etruth

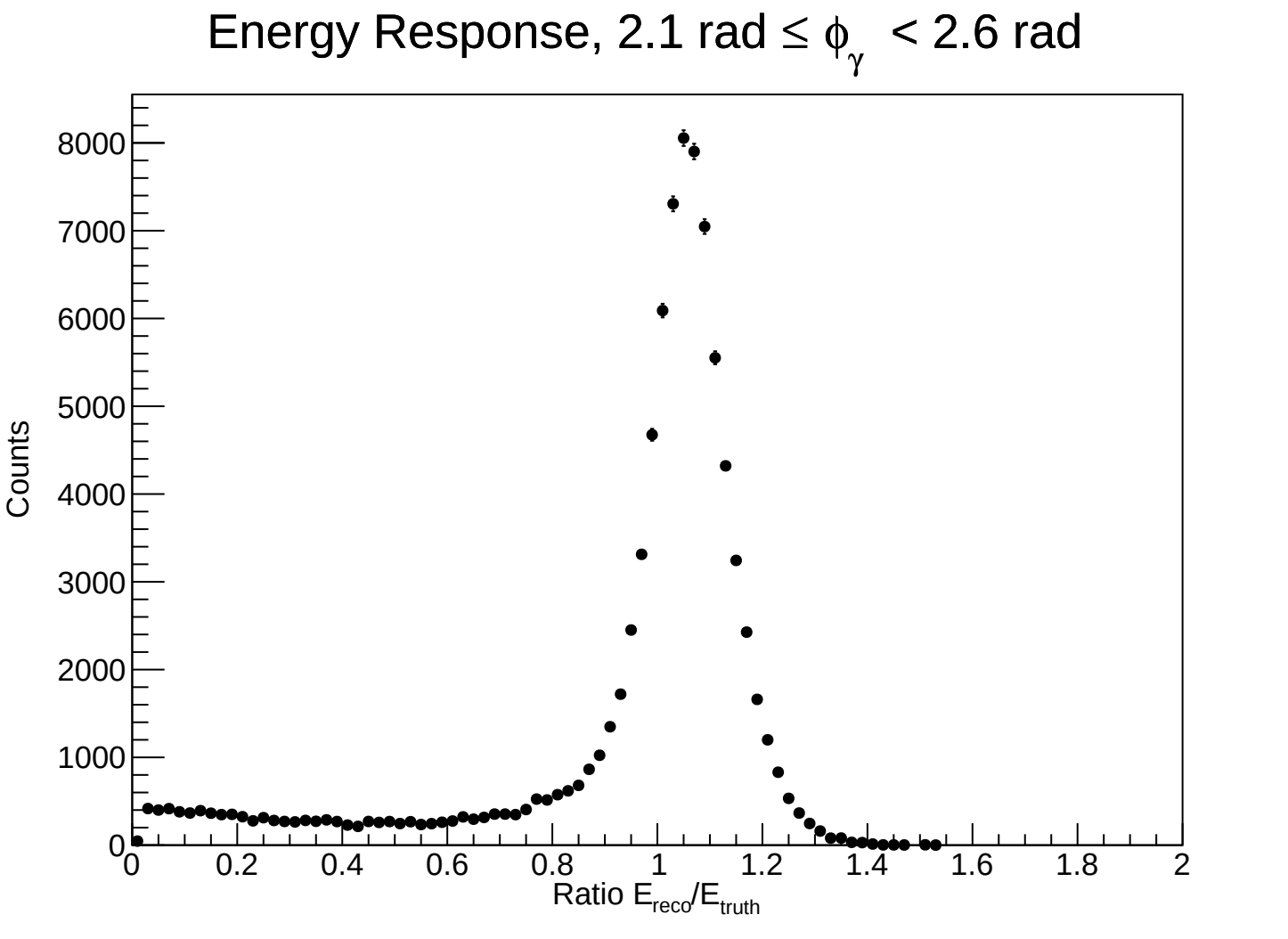

Energy Response, 0.5 rad ≤ ϕγ < 1.1 rad
μ=1.05659±0.00044
σ=0.06447±0.00070
Counts
Ratio Ereco/Etruth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

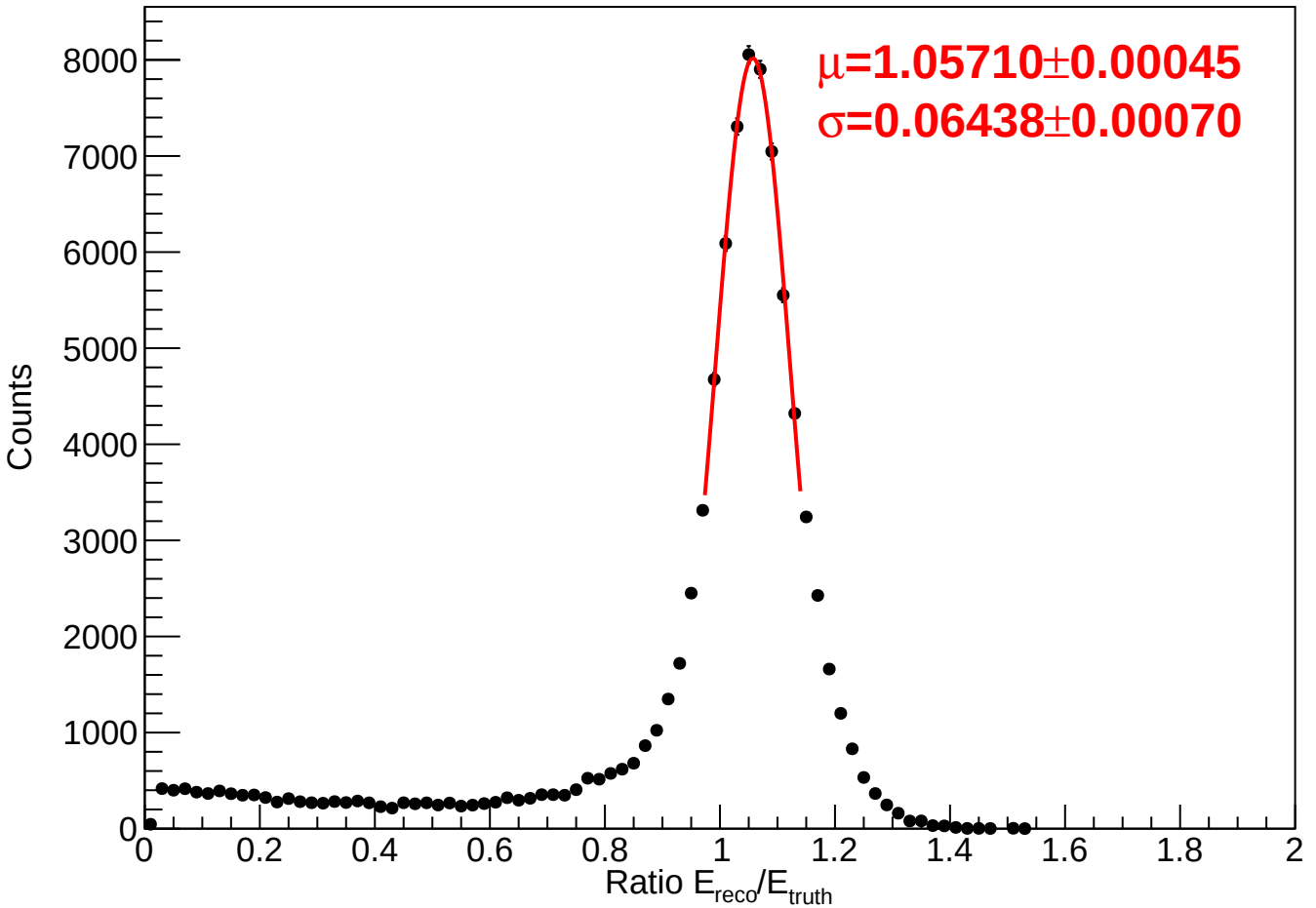

Energy Response, 1.1 rad ≤ ϕγ < 1.6 rad
Counts
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio Ereco/Etruth

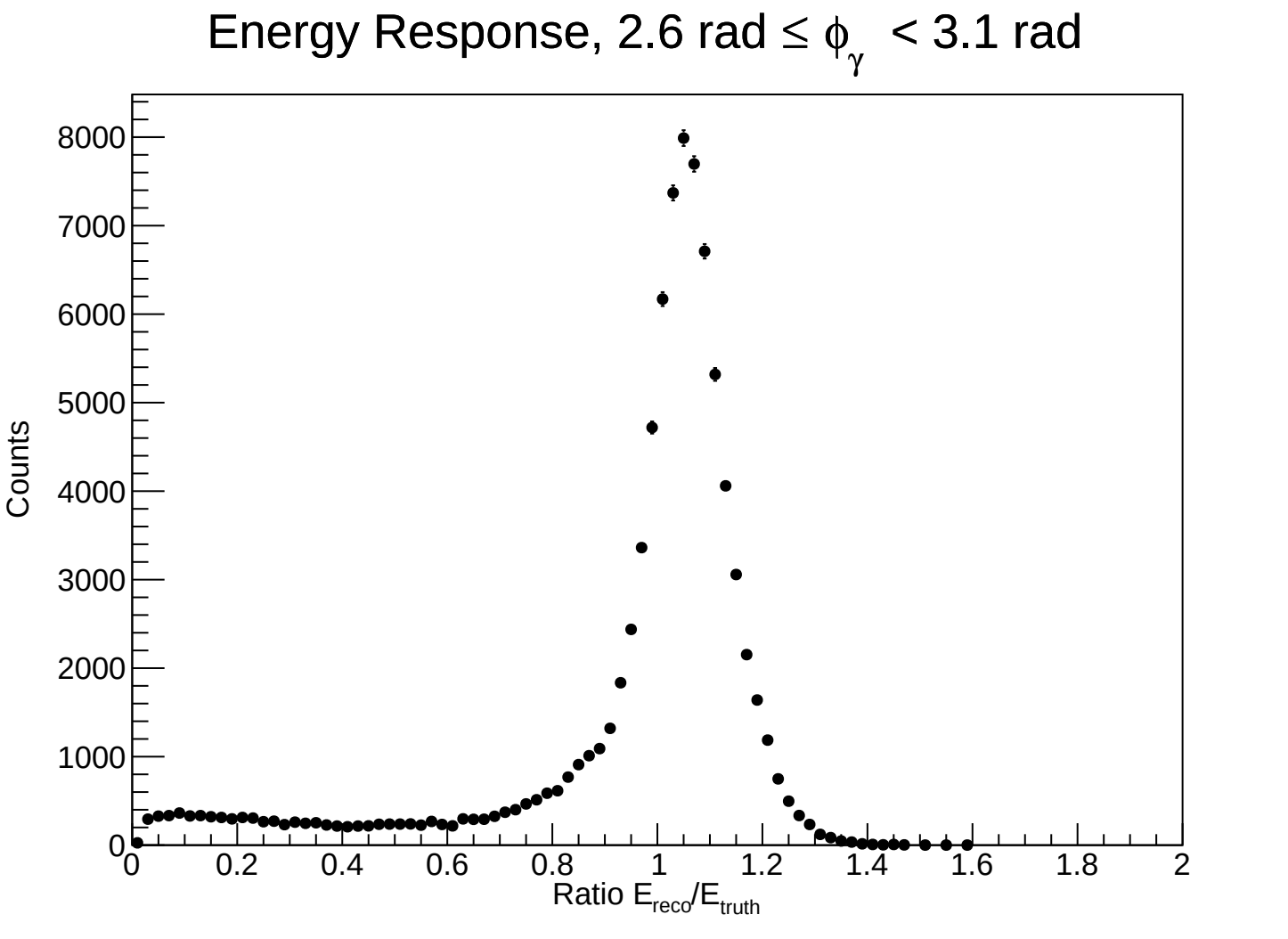

Energy Response, 1.1 rad ≤ ϕγ < 1.6 rad
μ=1.05451±0.00040
σ=0.06442±0.00055
Counts
Ratio Ereco/Etruth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

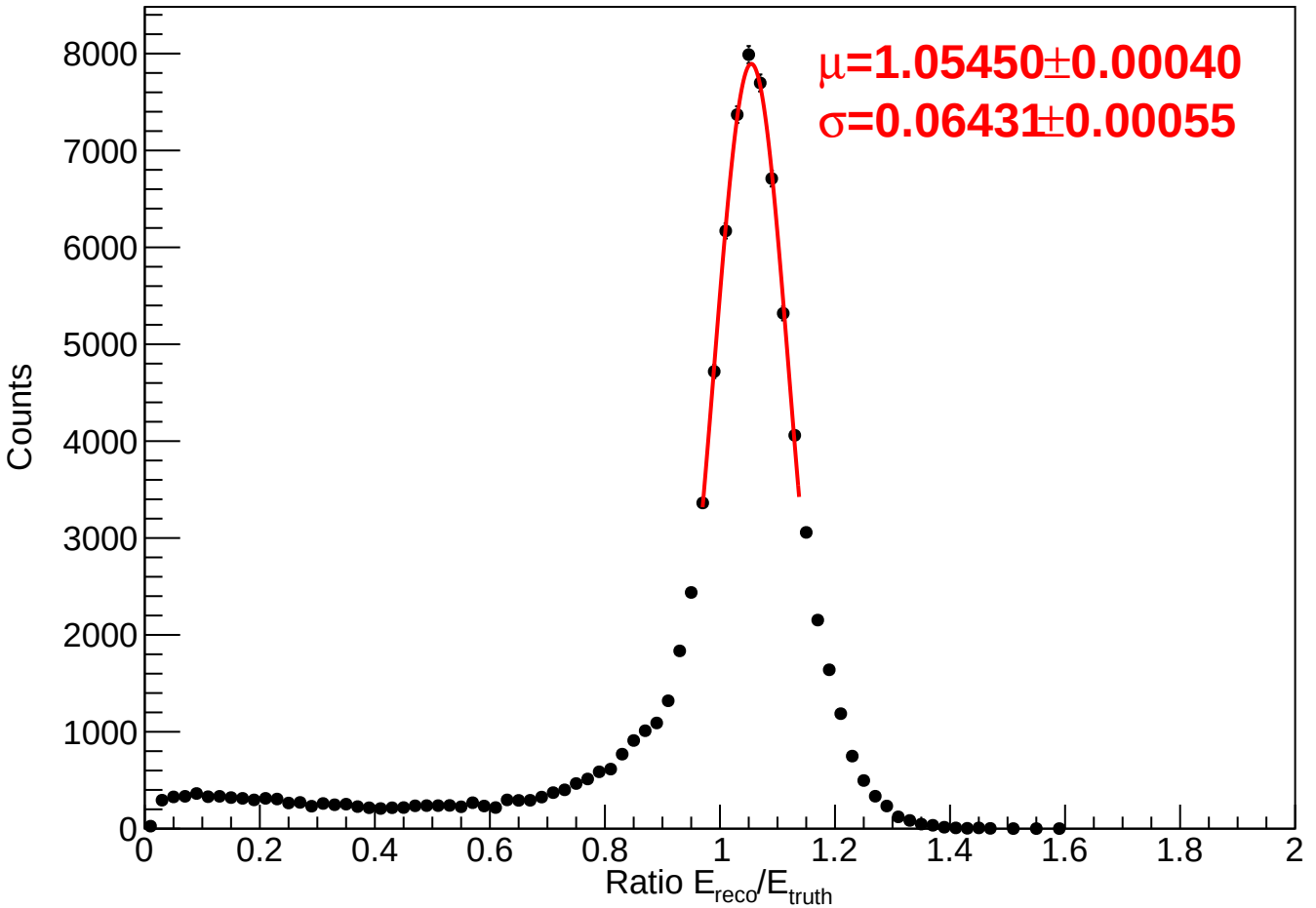

Energy Response, 1.6 rad ≤ ϕγ < 2.1 rad
Counts
Ratio Ereco/Etruth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

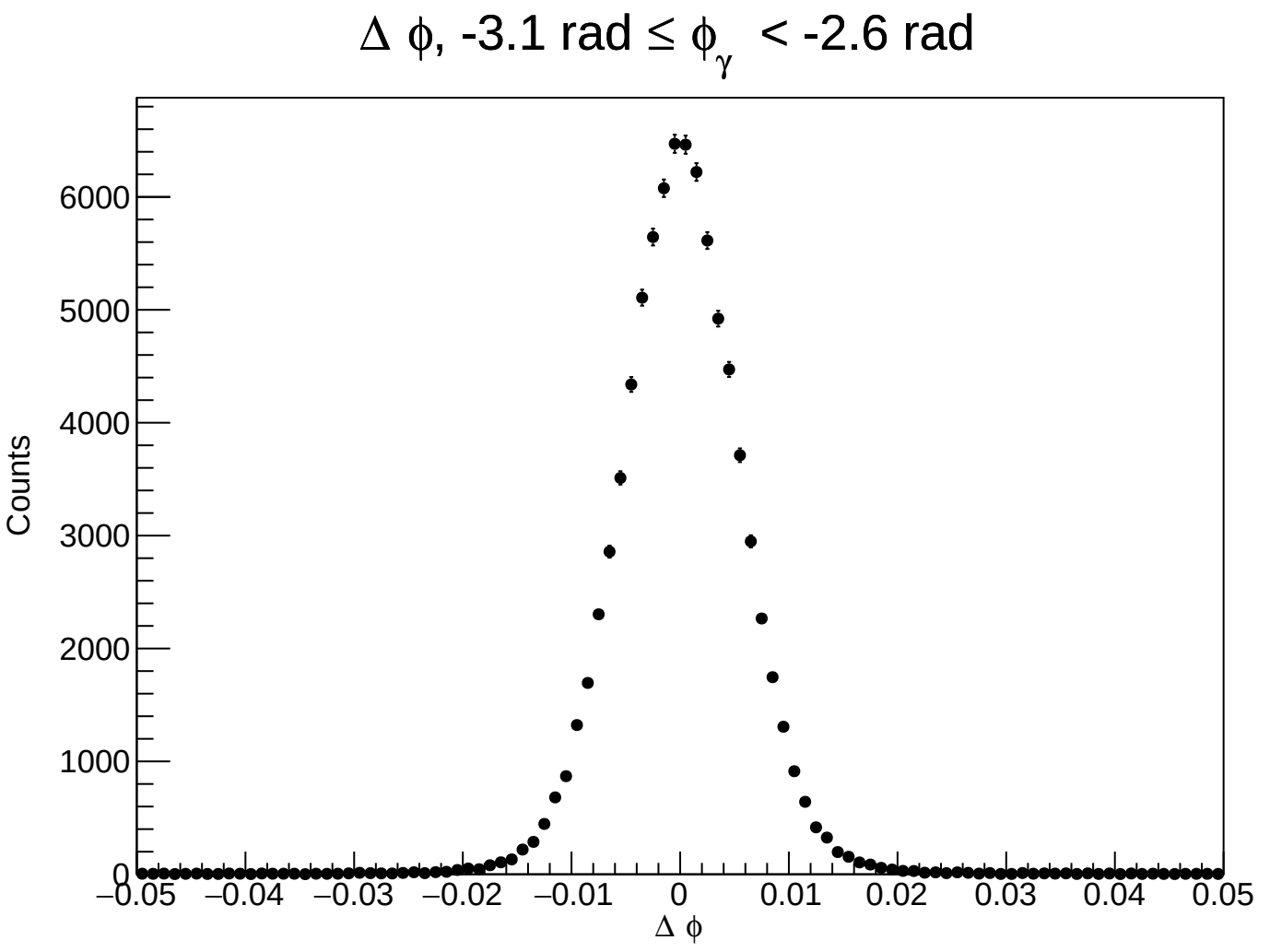

Energy Response, 1.6 rad ≤ ϕγ < 2.1 rad
μ=1.05562±0.00040
σ=0.06491±0.00056
Counts
Ratio Ereco/Etruth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

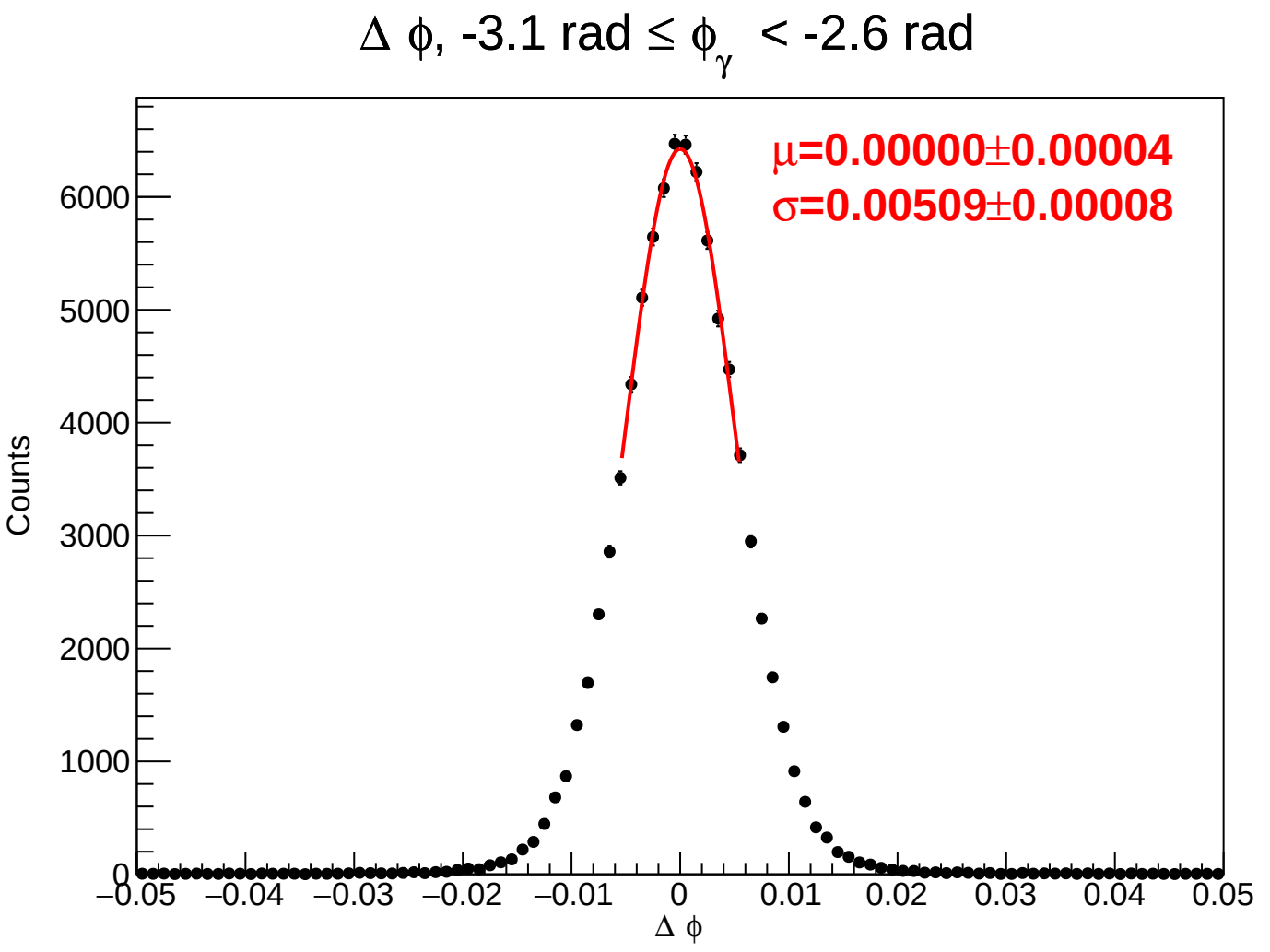

Energy Response, 2.1 rad ≤ ϕγ < 2.6 rad
Counts
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio Ereco/Etruth

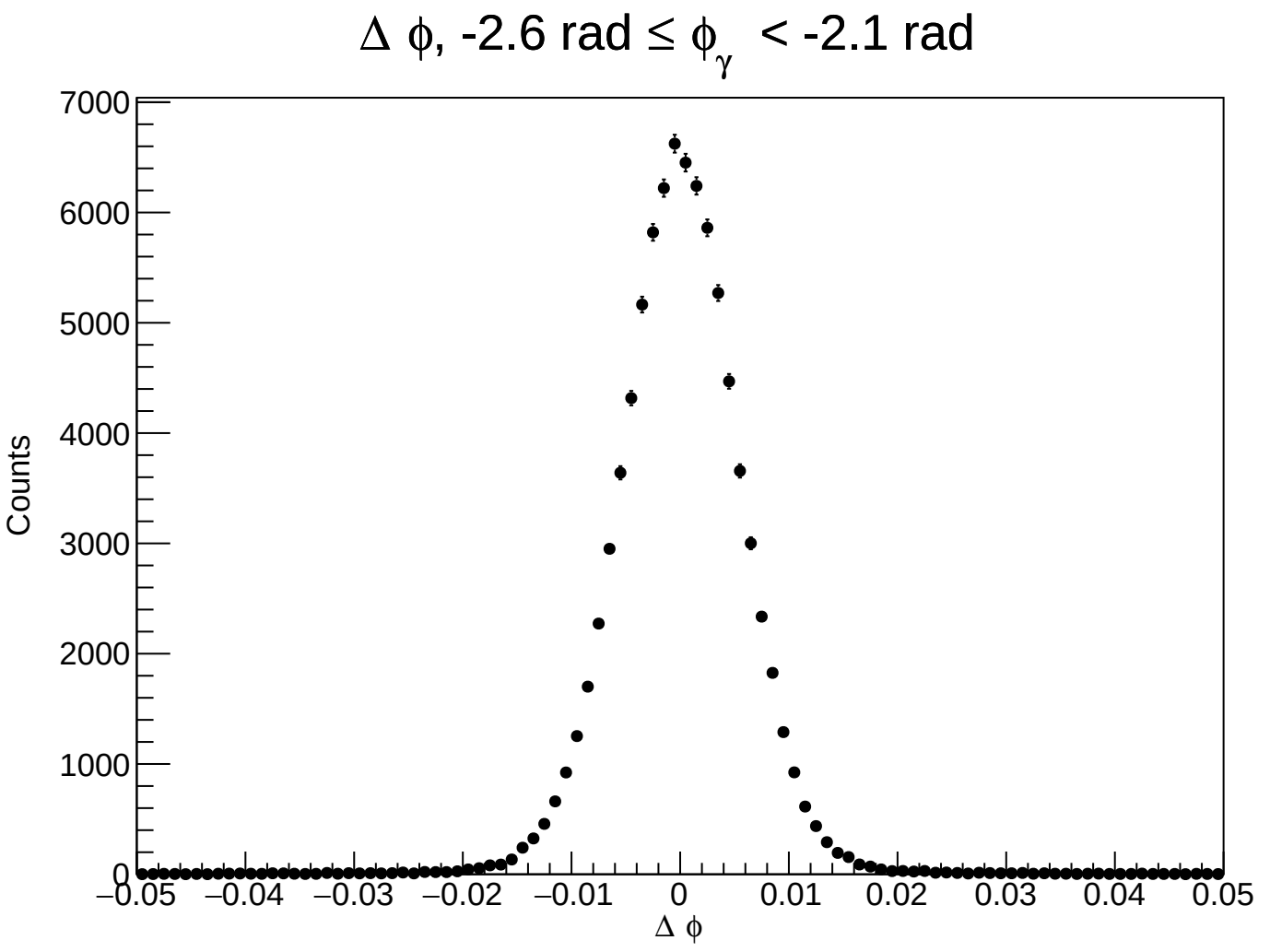

Energy Response, 2.1 rad ≤ ϕγ < 2.6 rad
μ=1.05710±0.00045
σ=0.06438±0.00070
Counts
Ratio Ereco/Etruth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

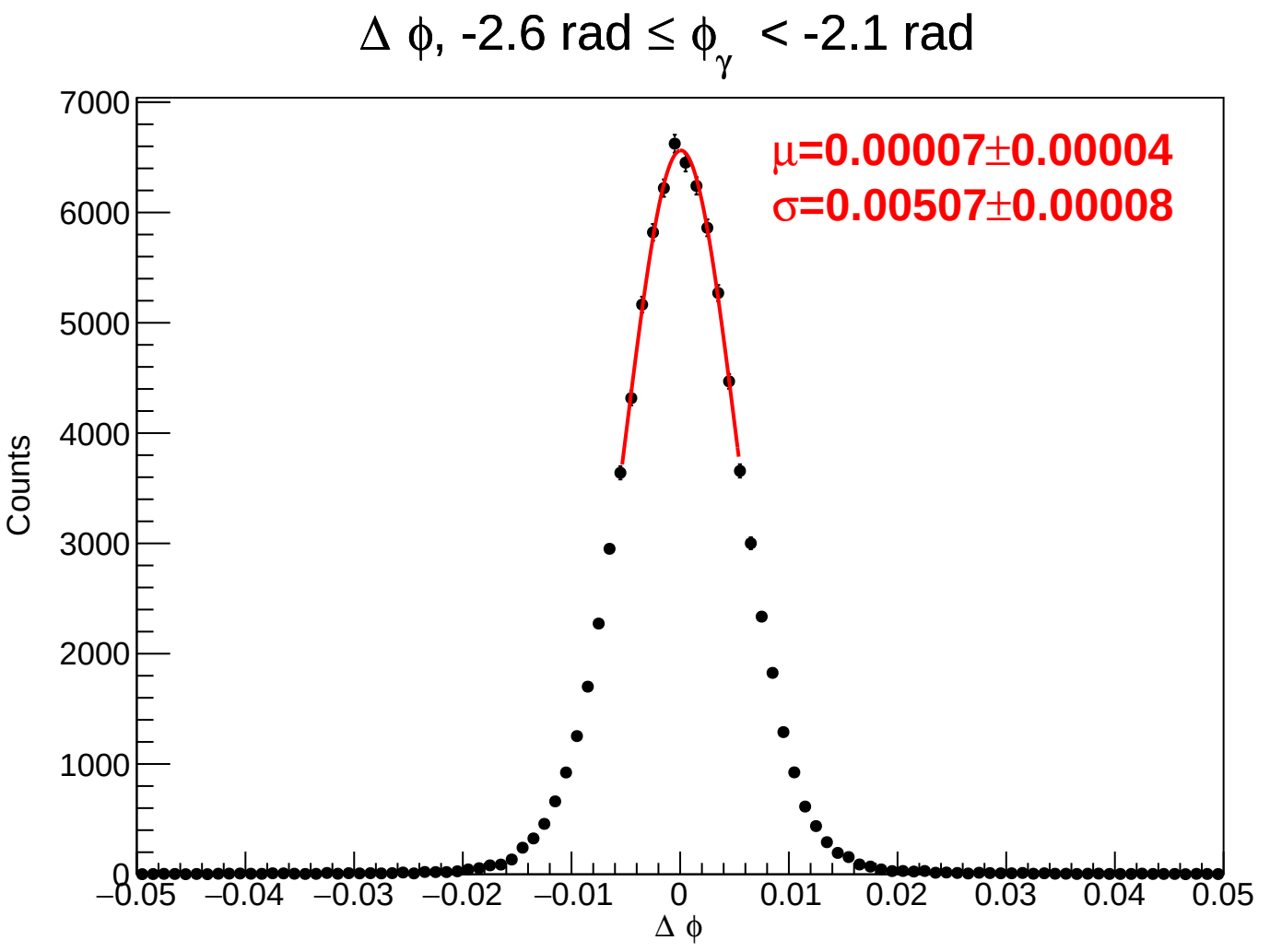

Energy Response, 2.6 rad ≤ ϕγ < 3.1 rad
Counts
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Ratio Ereco/Etruth

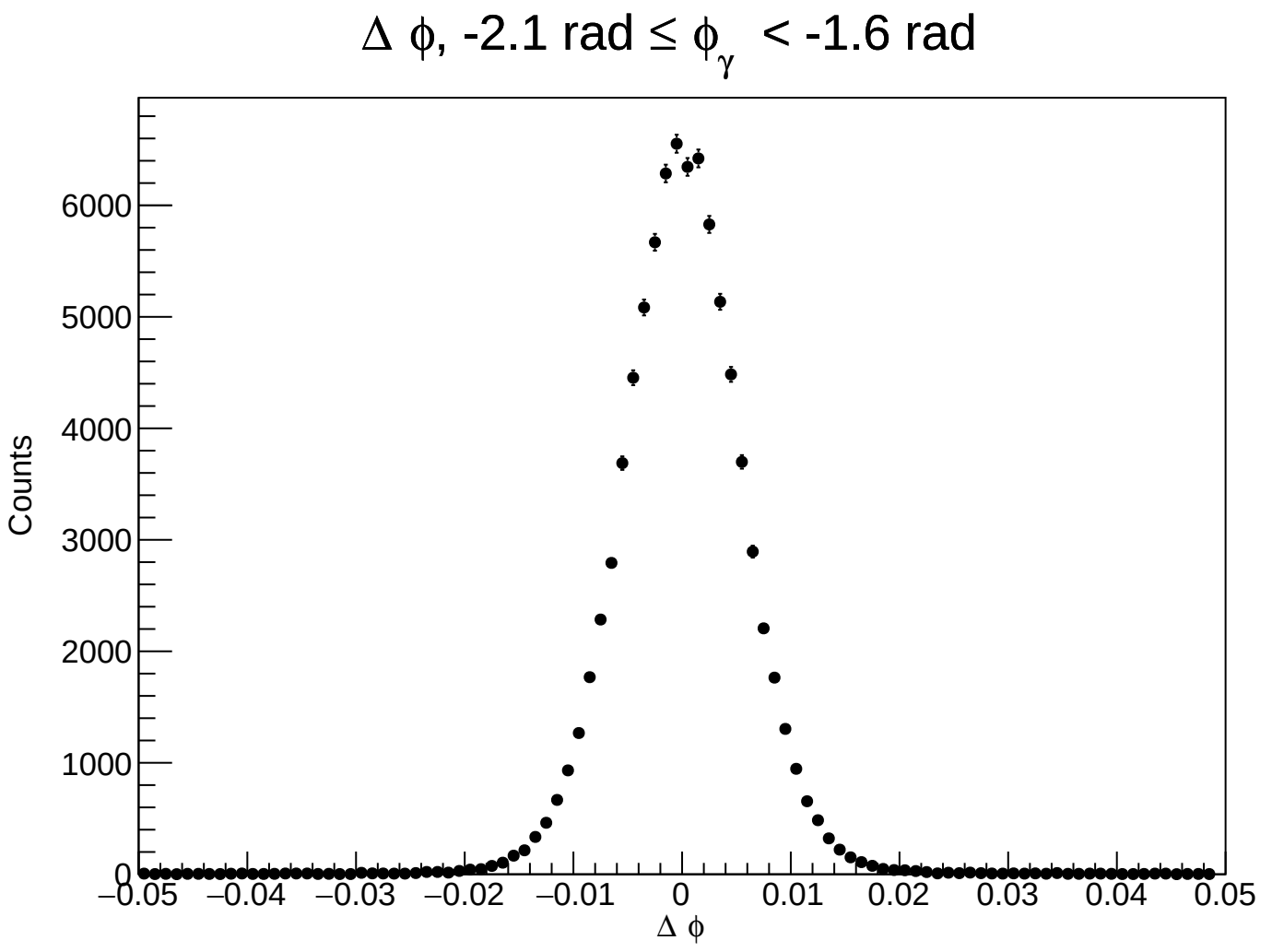

Energy Response, 2.6 rad ≤ ϕγ < 3.1 rad
μ=1.05450±0.00040
σ=0.06431±0.00055
Counts
Ratio Ereco/Etruth
0
1000
2000
3000
4000
5000
6000
7000
8000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

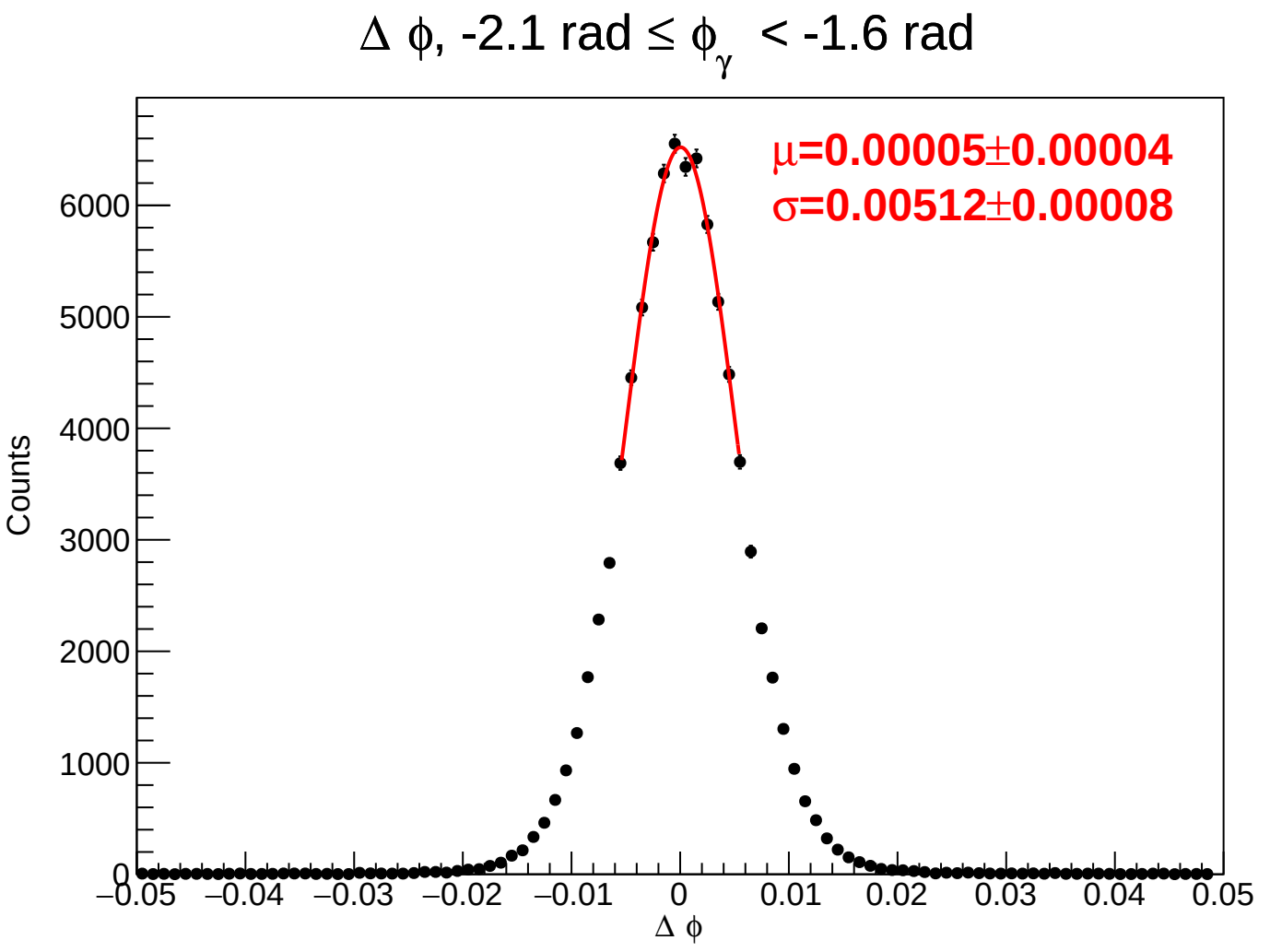

Δ ϕ, -3.1 rad ≤ ϕγ < -2.6 rad
Counts
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

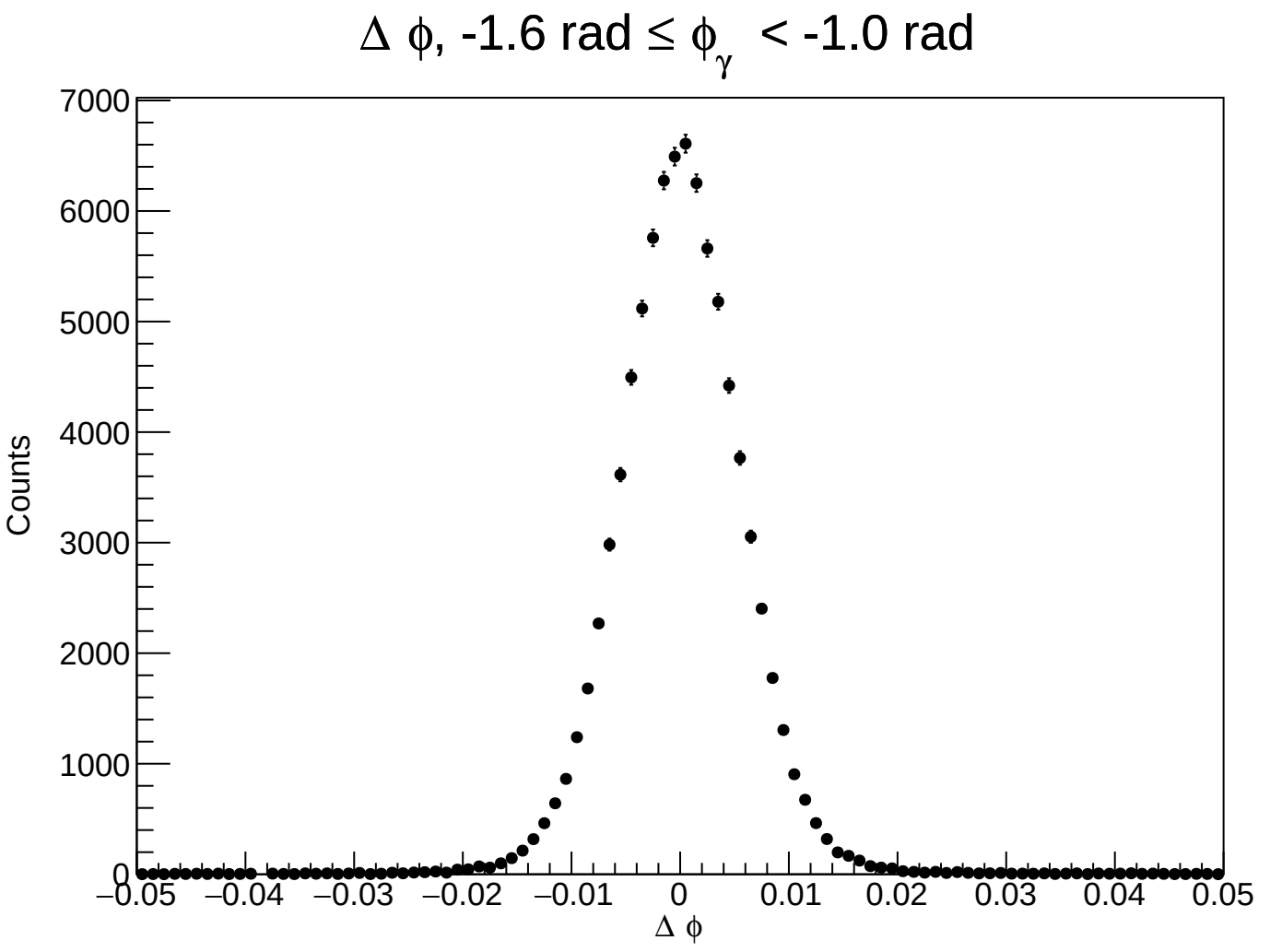

Δ ϕ, -3.1 rad ≤ ϕγ < -2.6 rad
μ=0.00000±0.00004
σ=0.00509±0.00008
Counts
Δ ϕ
0
1000
2000
3000
4000
5000
6000
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

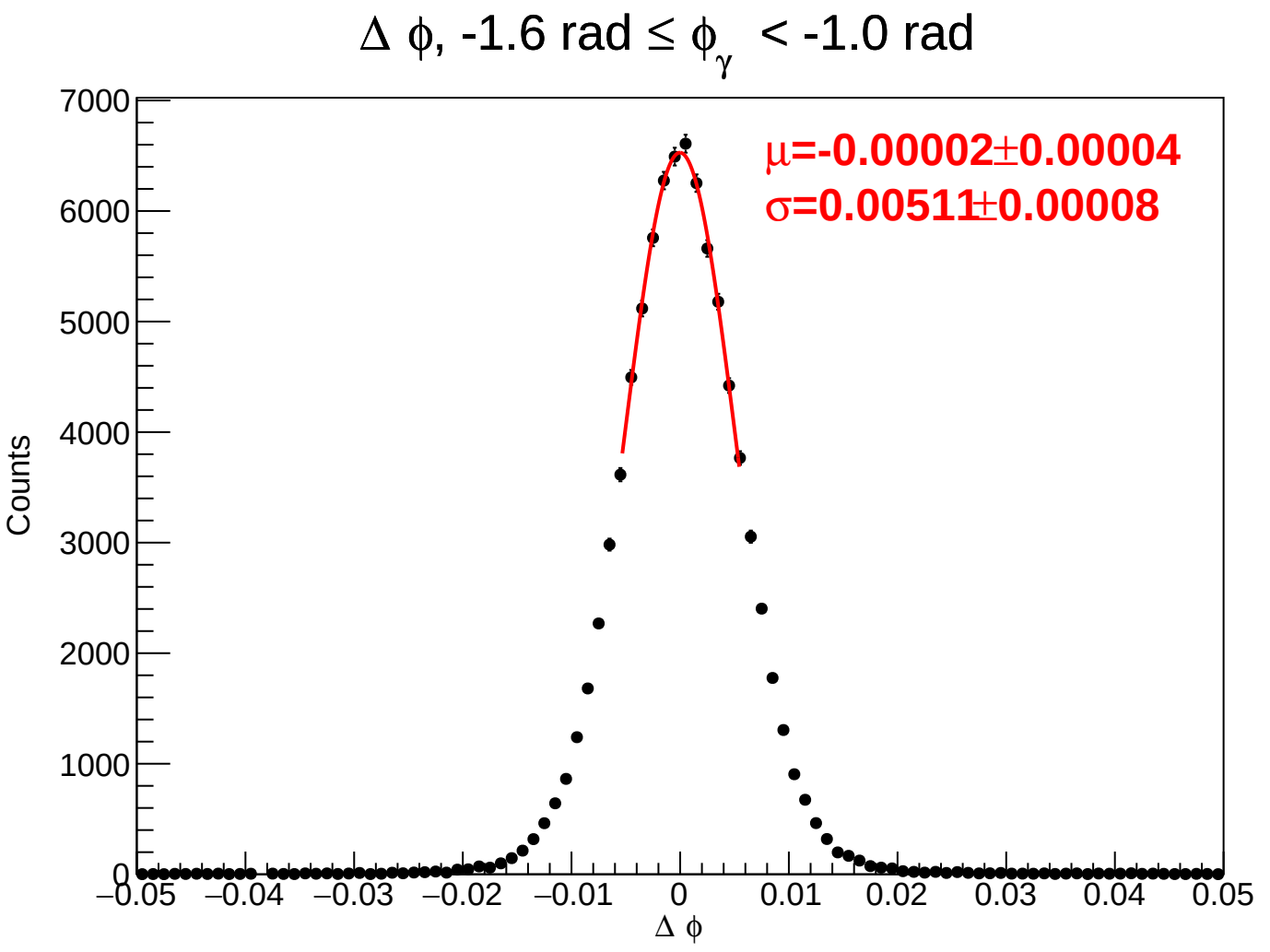

Δ ϕ, -2.6 rad ≤ ϕγ < -2.1 rad
Counts
7000
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

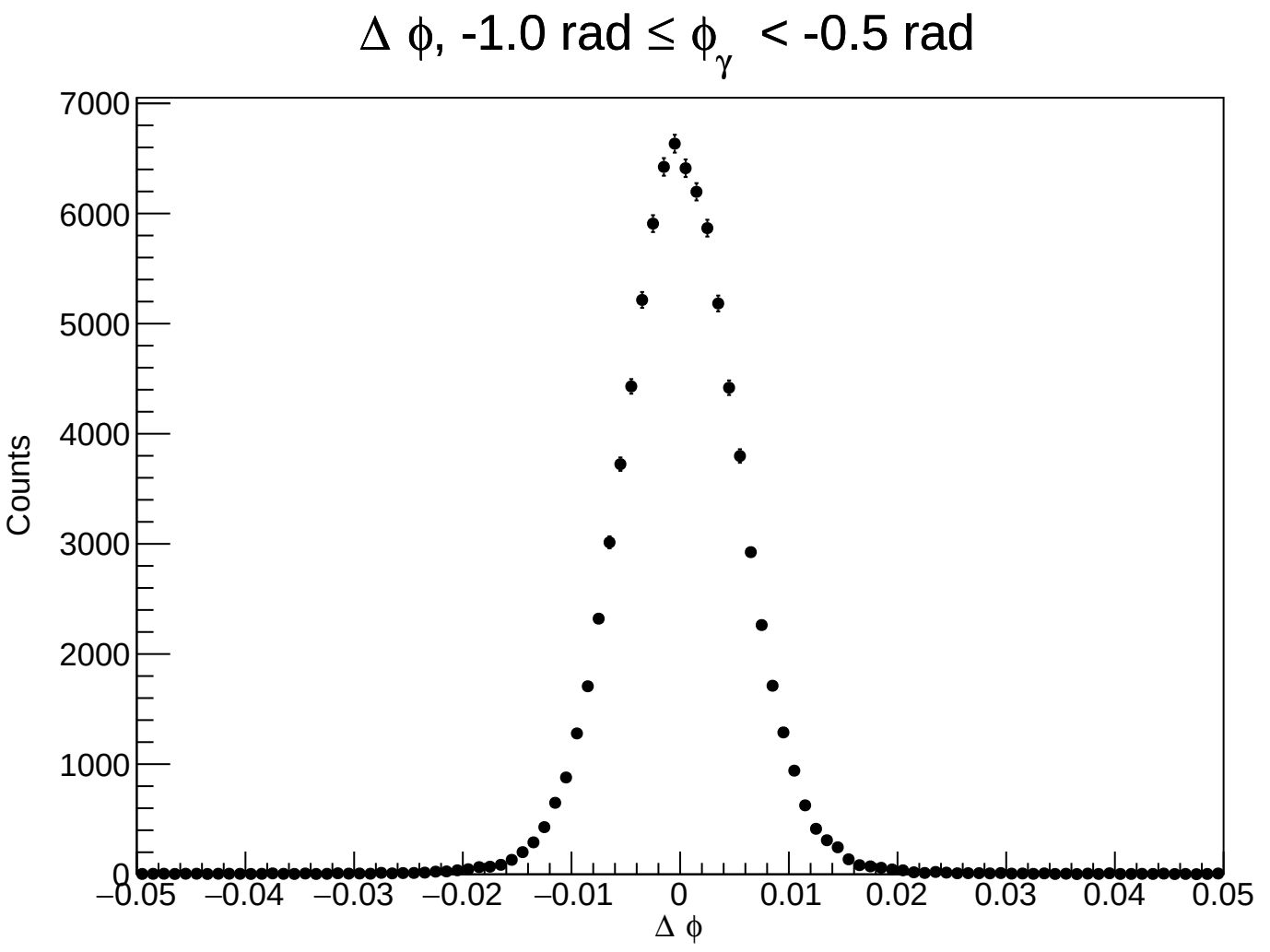

Δ ϕ, -2.6 rad ≤ ϕγ < -2.1 rad
μ=0.00007±0.00004
σ=0.00507±0.00008
Counts
Δ ϕ
7000
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

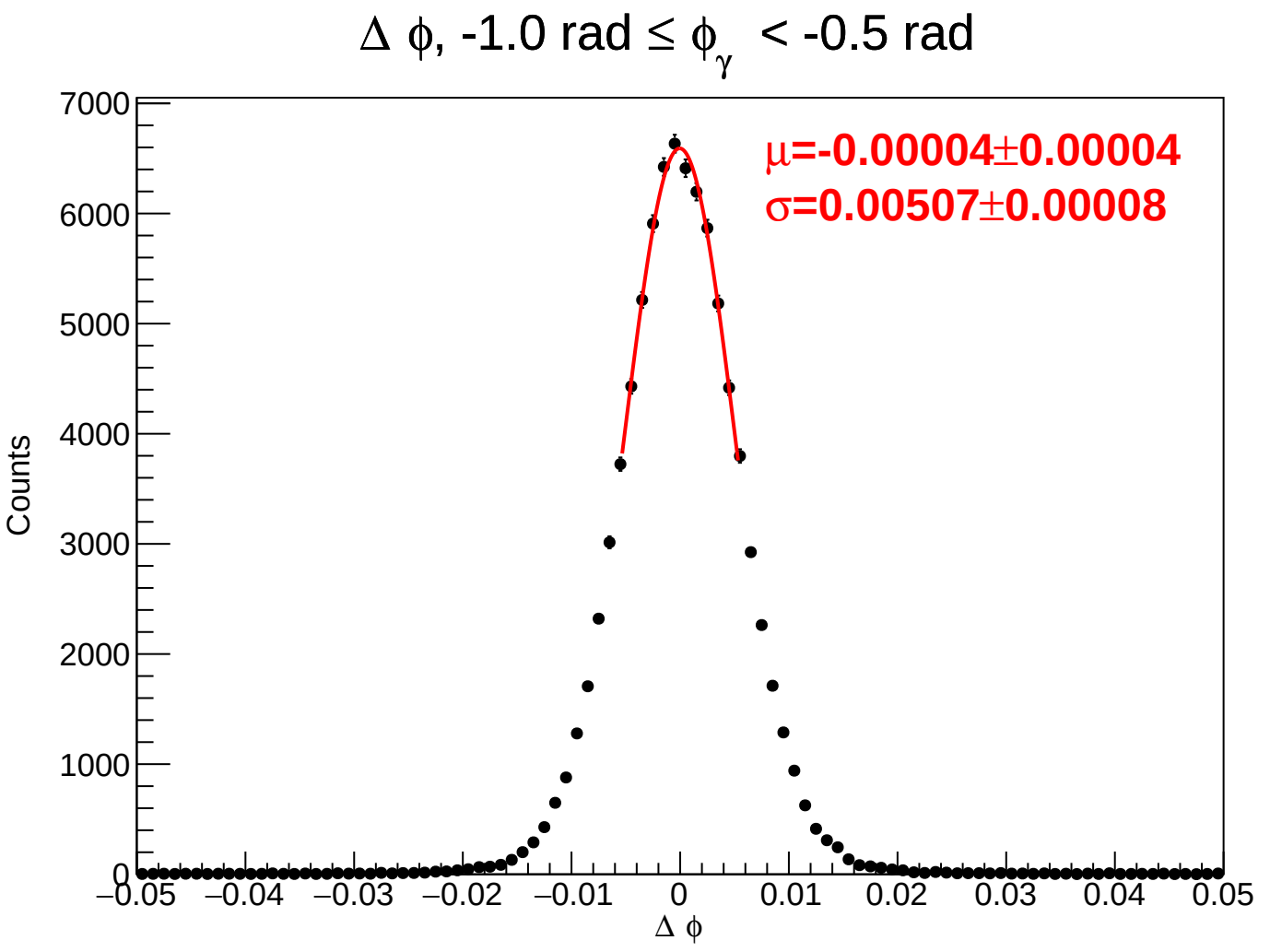

Δ ϕ, -2.1 rad ≤ ϕγ < -1.6 rad
Counts
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

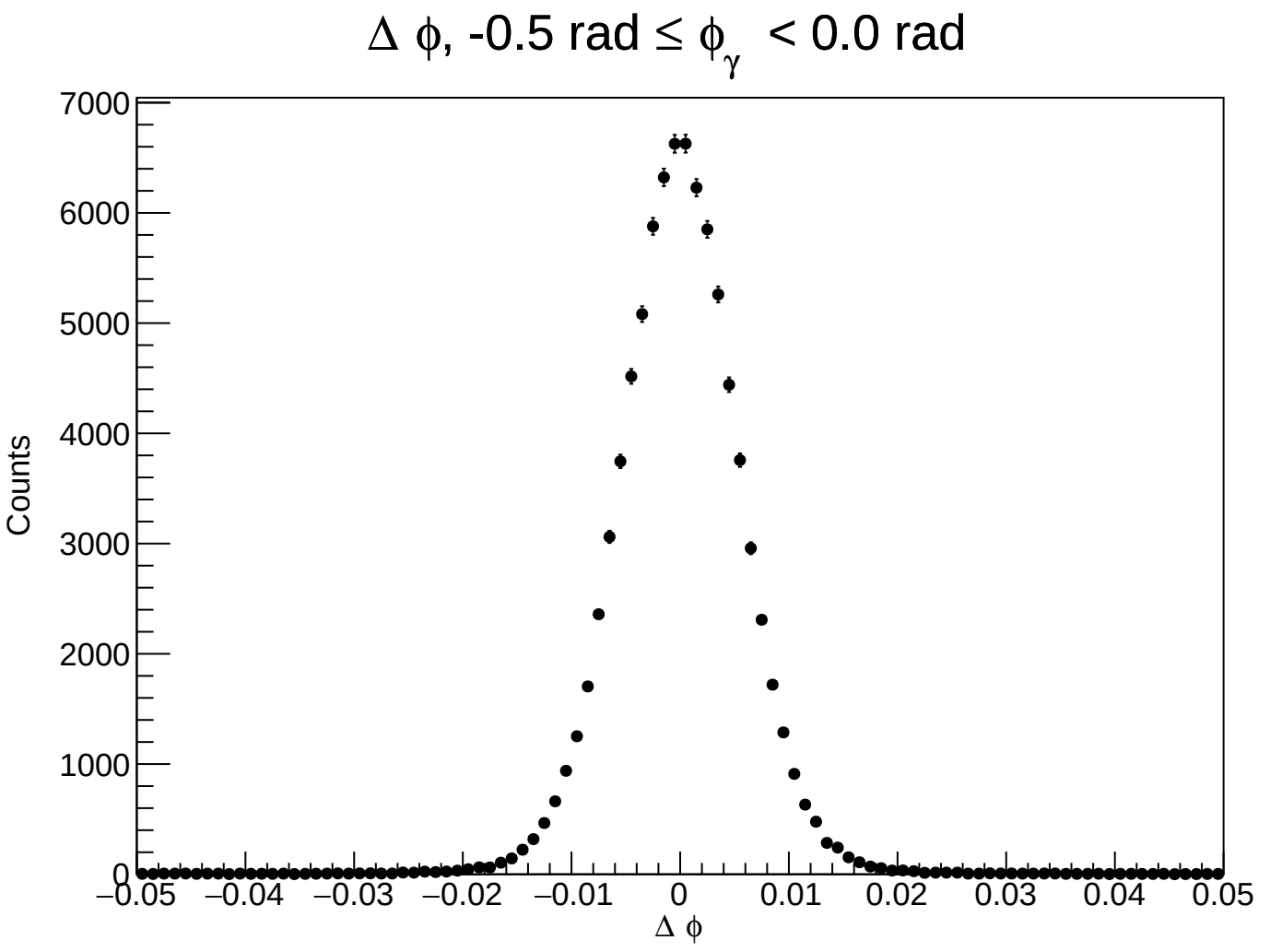

Δ ϕ, -2.1 rad ≤ ϕγ < -1.6 rad
μ=0.00005±0.00004
σ=0.00512±0.00008
Counts
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

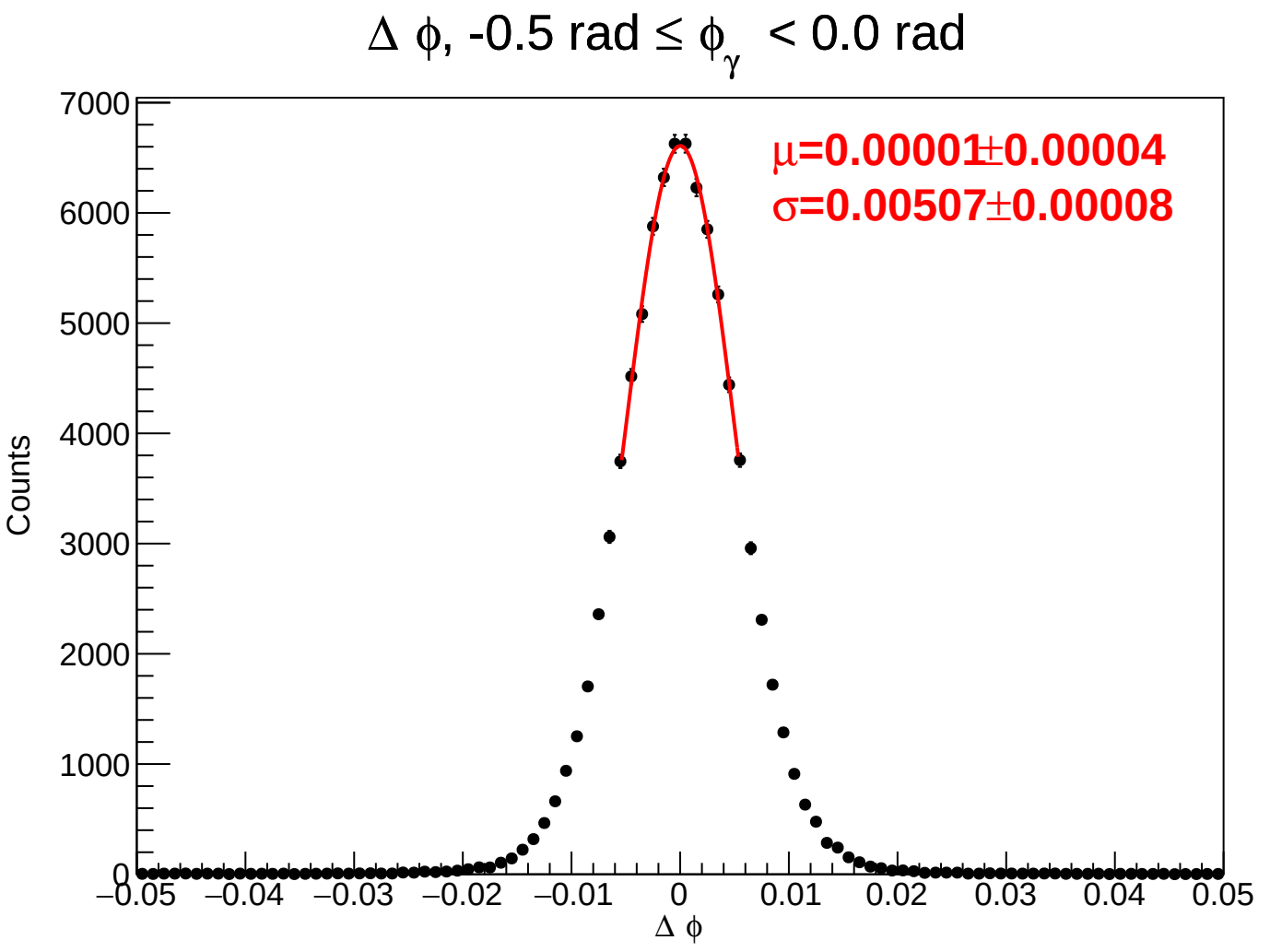

Δ ϕ, -1.6 rad ≤ ϕγ < -1.0 rad
Counts
7000
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

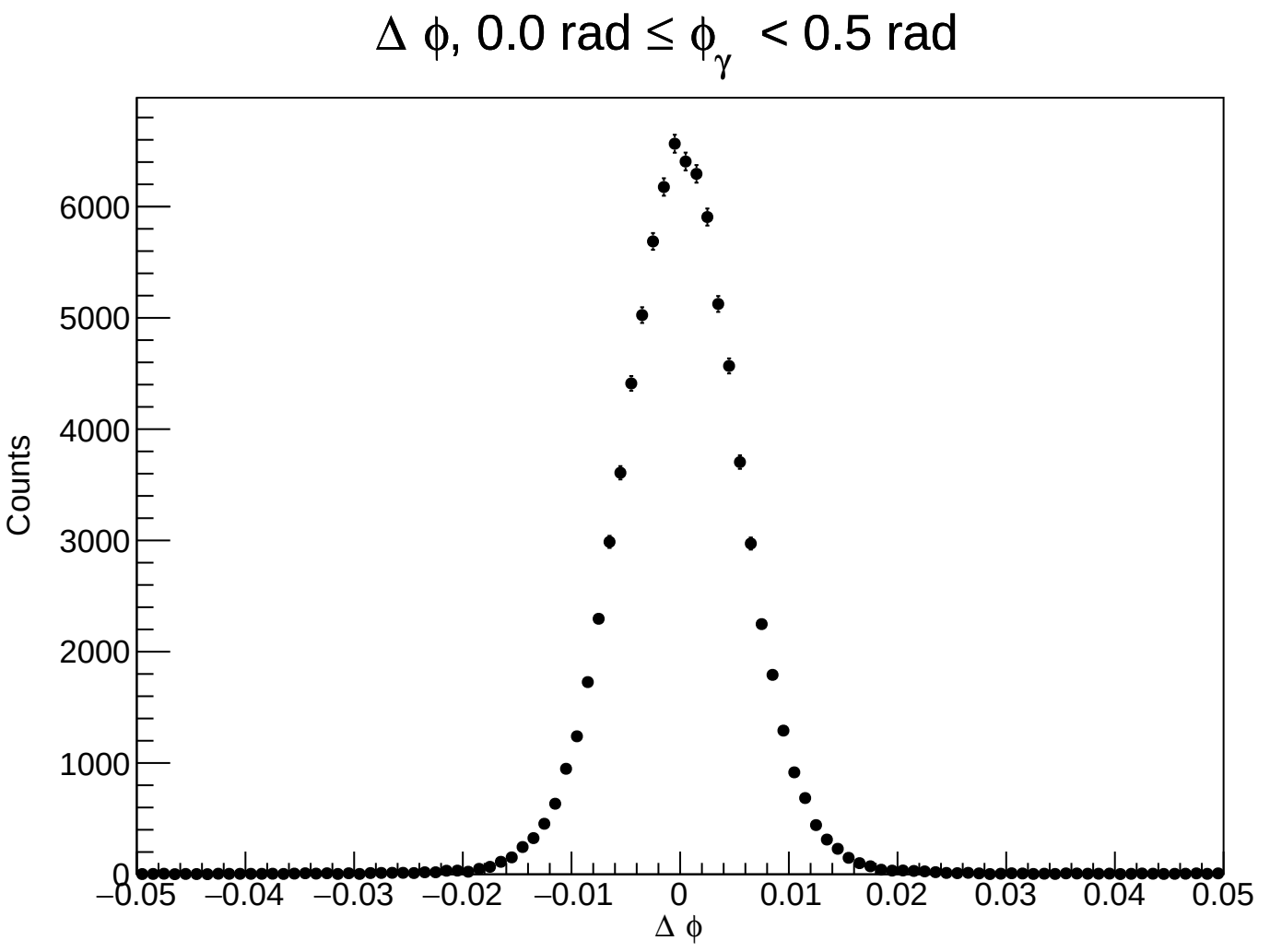

Δ ϕ, -1.6 rad ≤ ϕγ < -1.0 rad
μ=-0.00002±0.00004
σ=0.00511±0.00008
Counts
Δ ϕ
7000
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

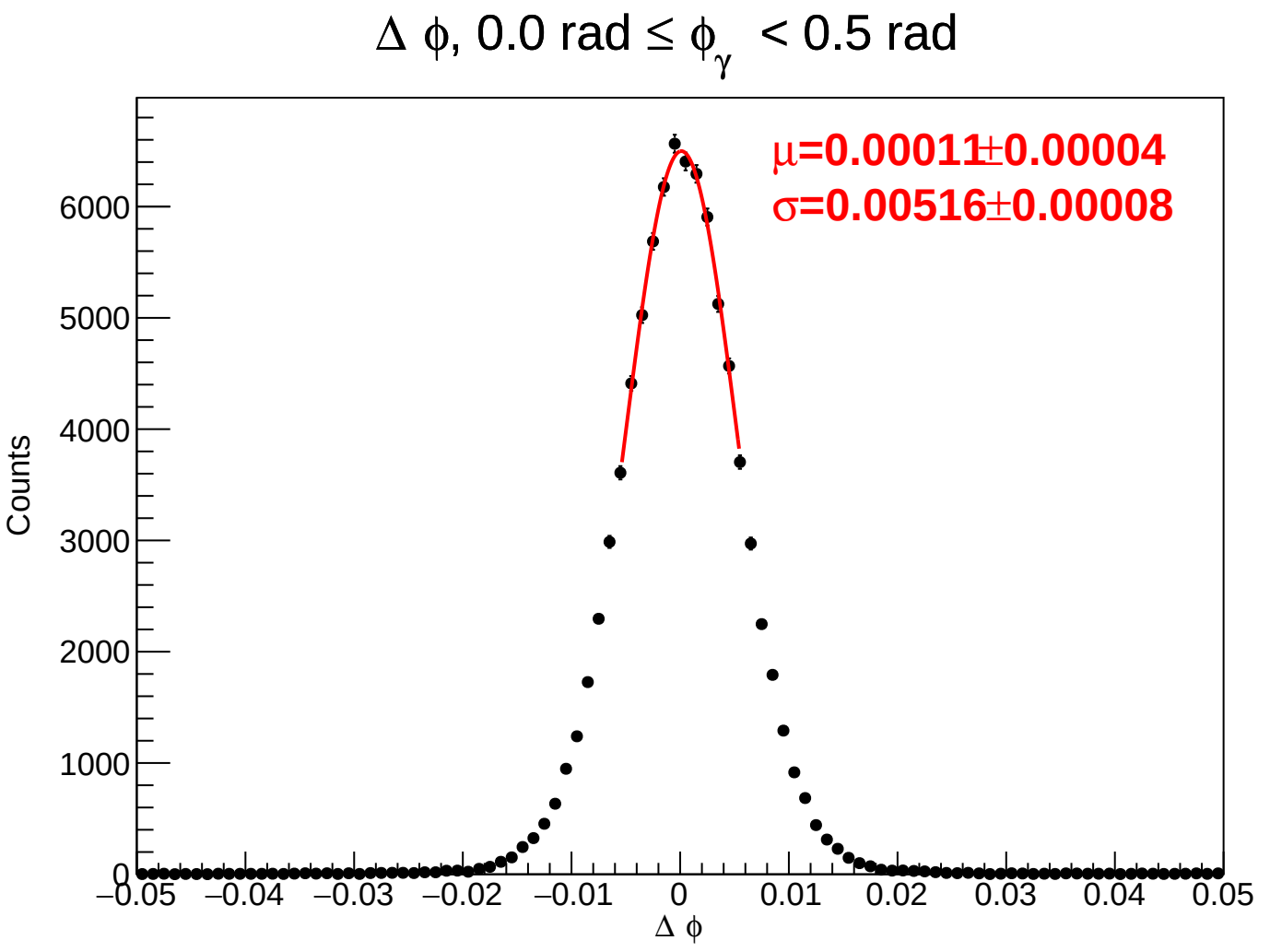

Δ ϕ, -1.0 rad ≤ ϕγ < -0.5 rad
Counts
7000
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

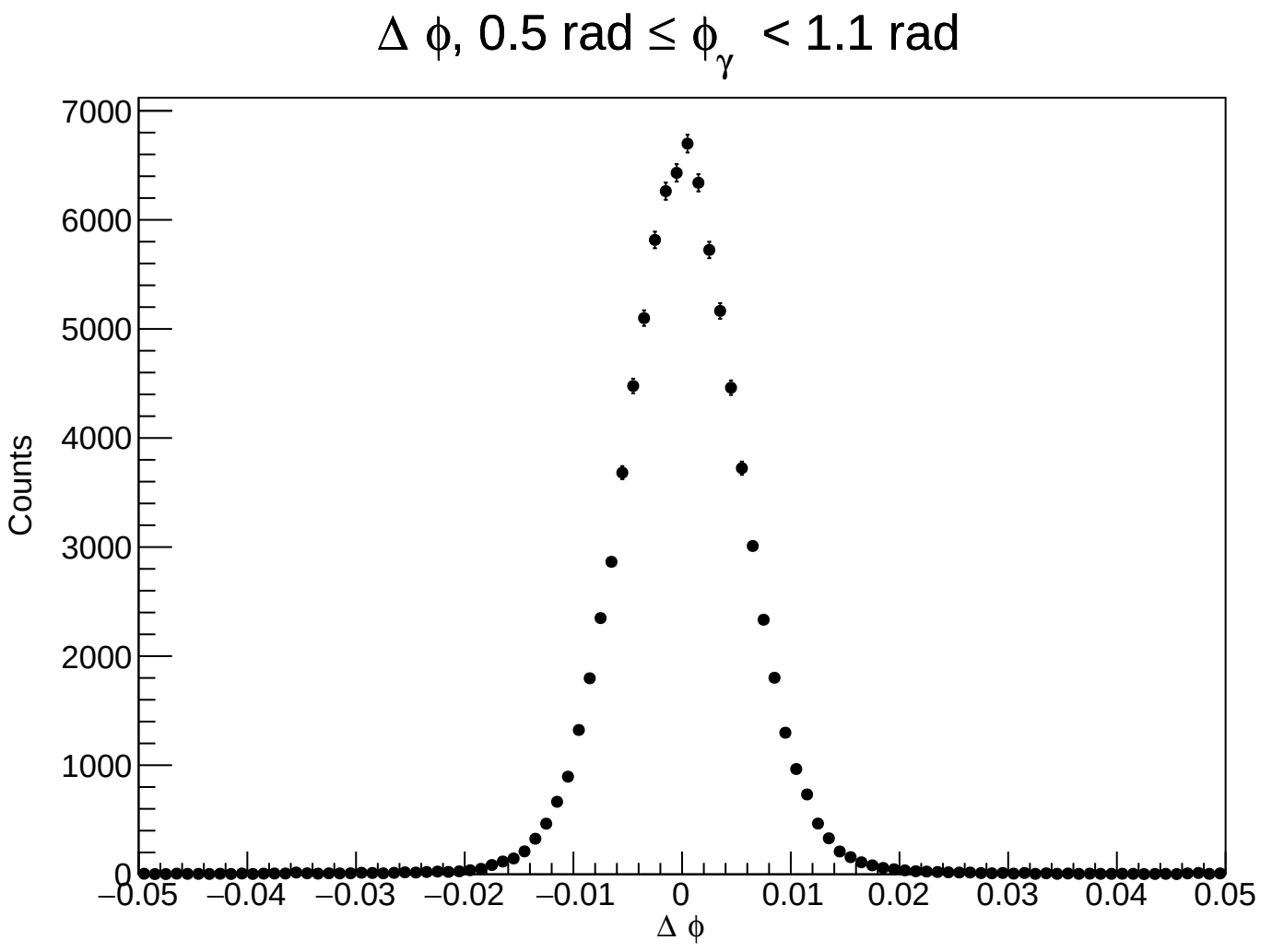

Δ ϕ, -1.0 rad ≤ ϕγ < -0.5 rad
μ=-0.00004±0.00004
σ=0.00507±0.00008
Counts
Δ ϕ
7000
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

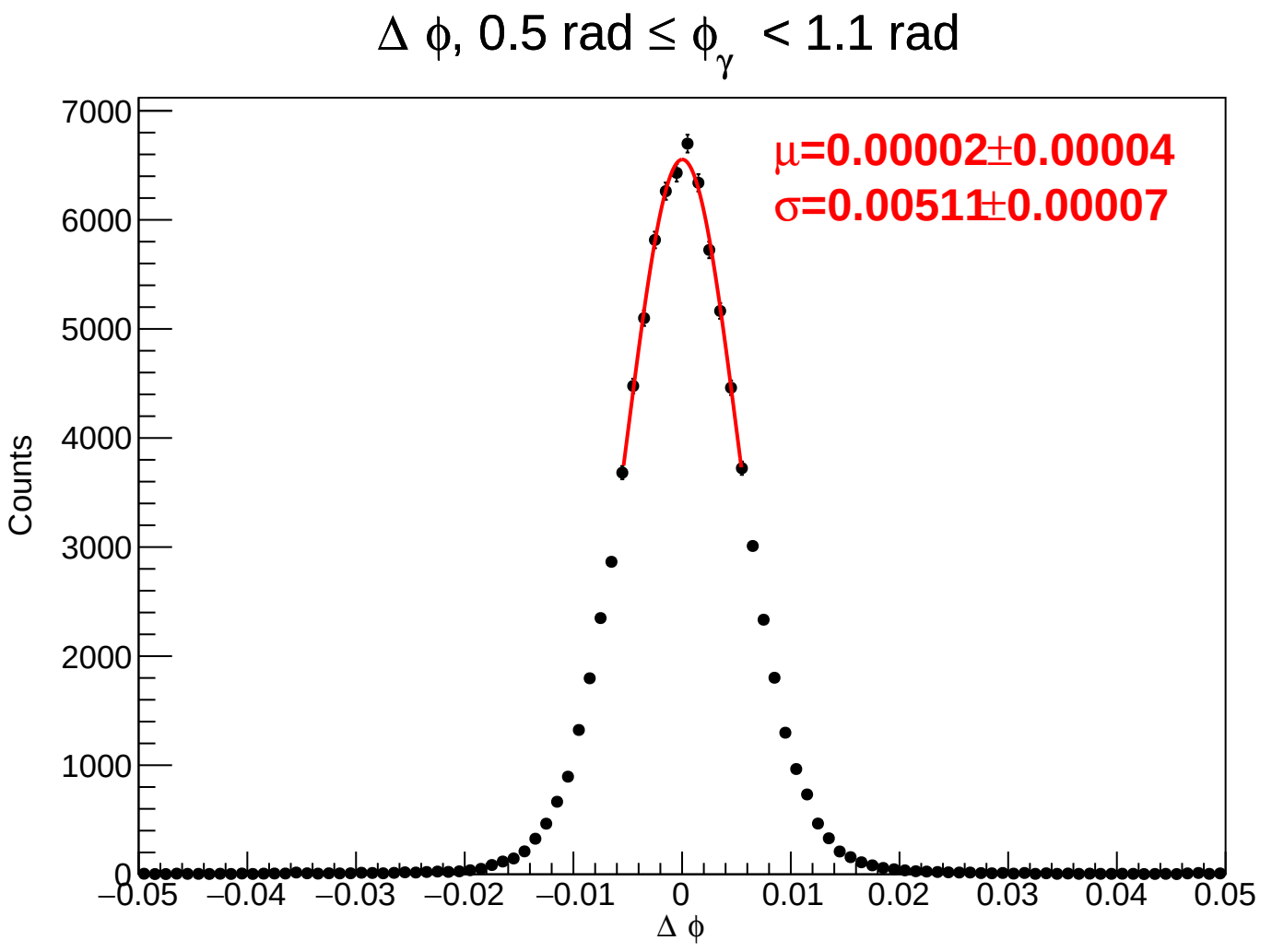

Δ ϕ, -0.5 rad ≤ ϕγ < 0.0 rad
Counts
7000
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

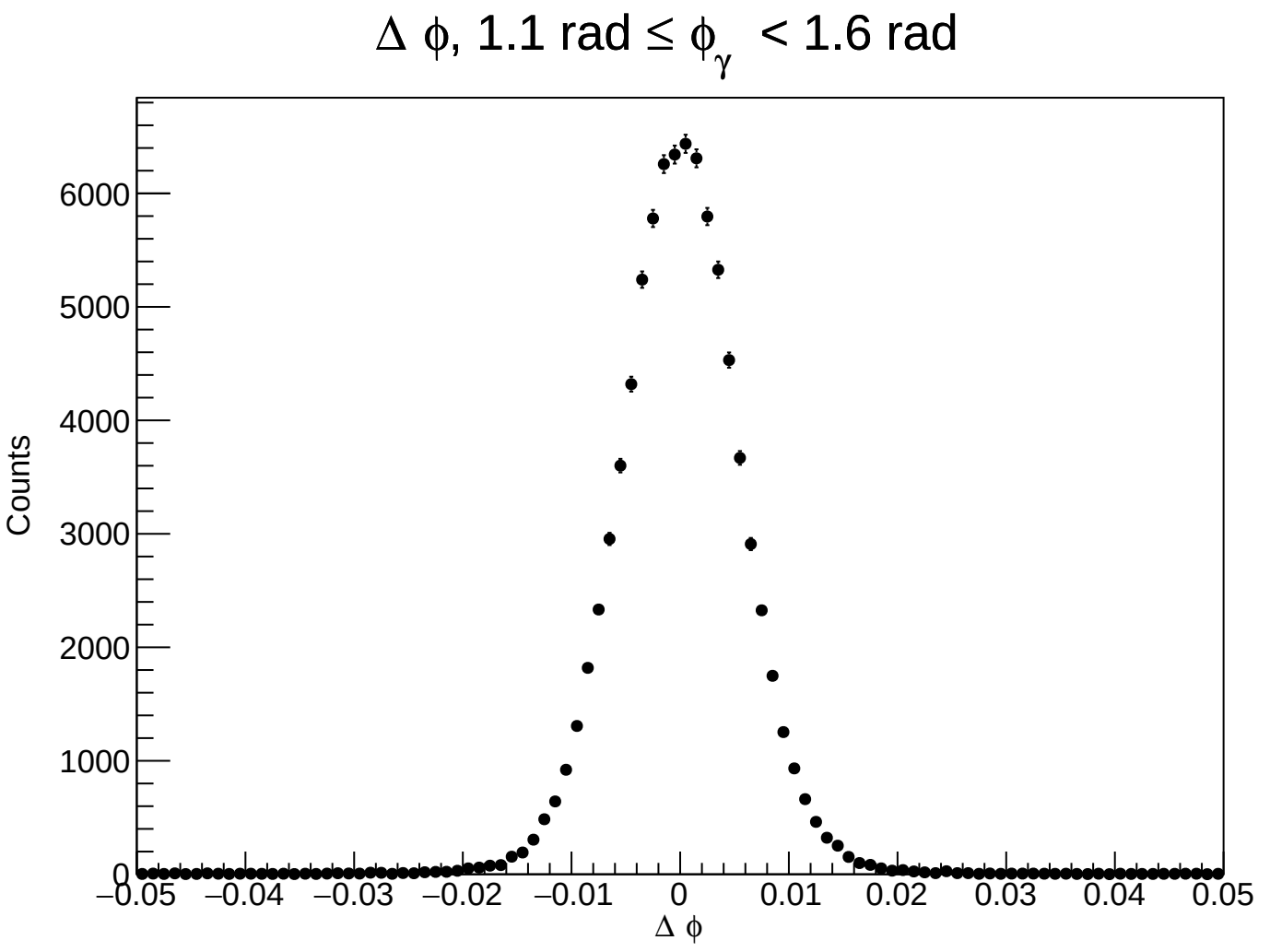

Δ ϕ, -0.5 rad ≤ ϕγ < 0.0 rad
μ=0.00001±0.00004
σ=0.00507±0.00008
Counts
Δ ϕ
7000
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

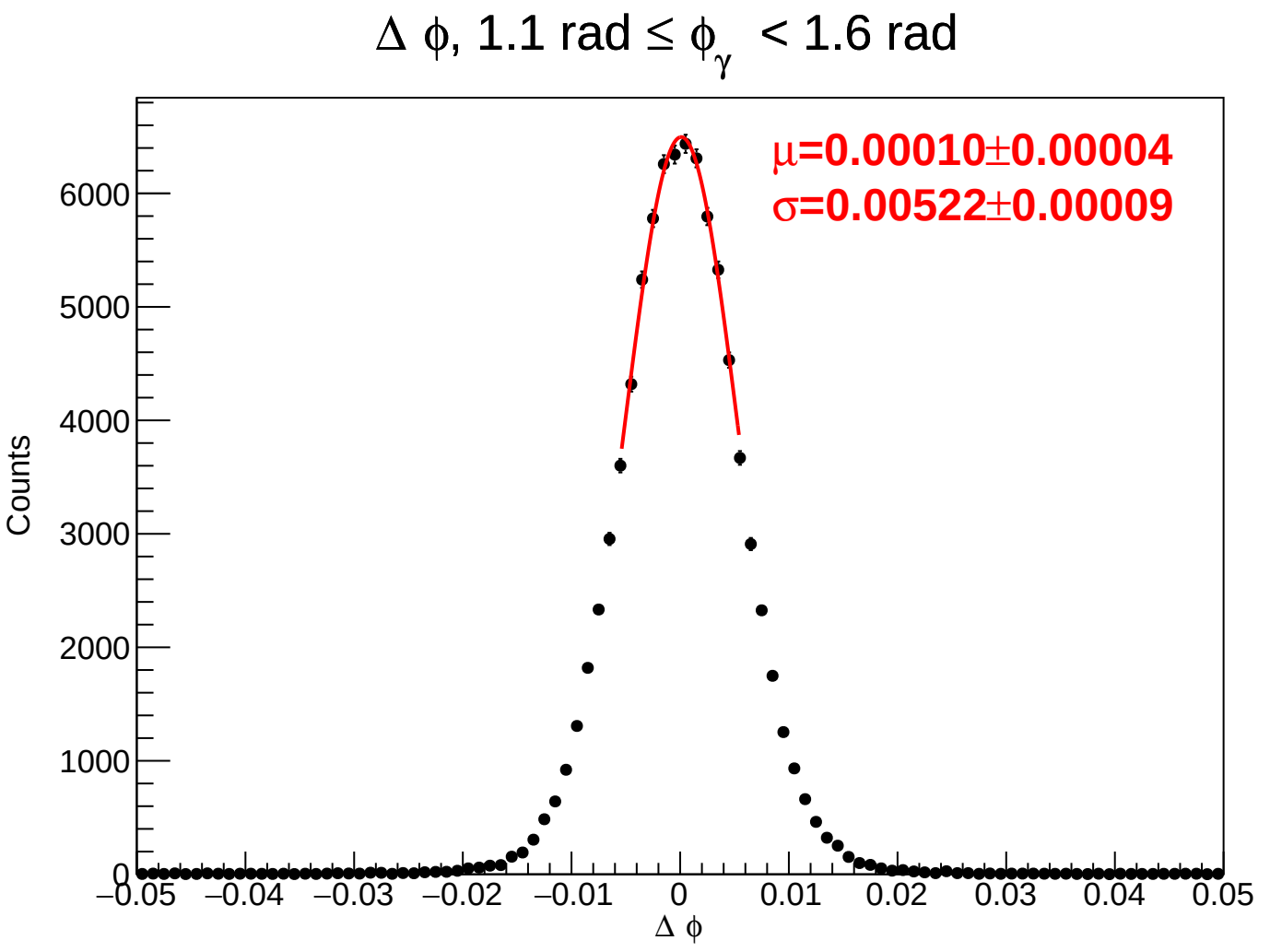

Δ ϕ, 0.0 rad ≤ ϕγ < 0.5 rad
Counts
6000
5000
4000
3000
2000
1000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

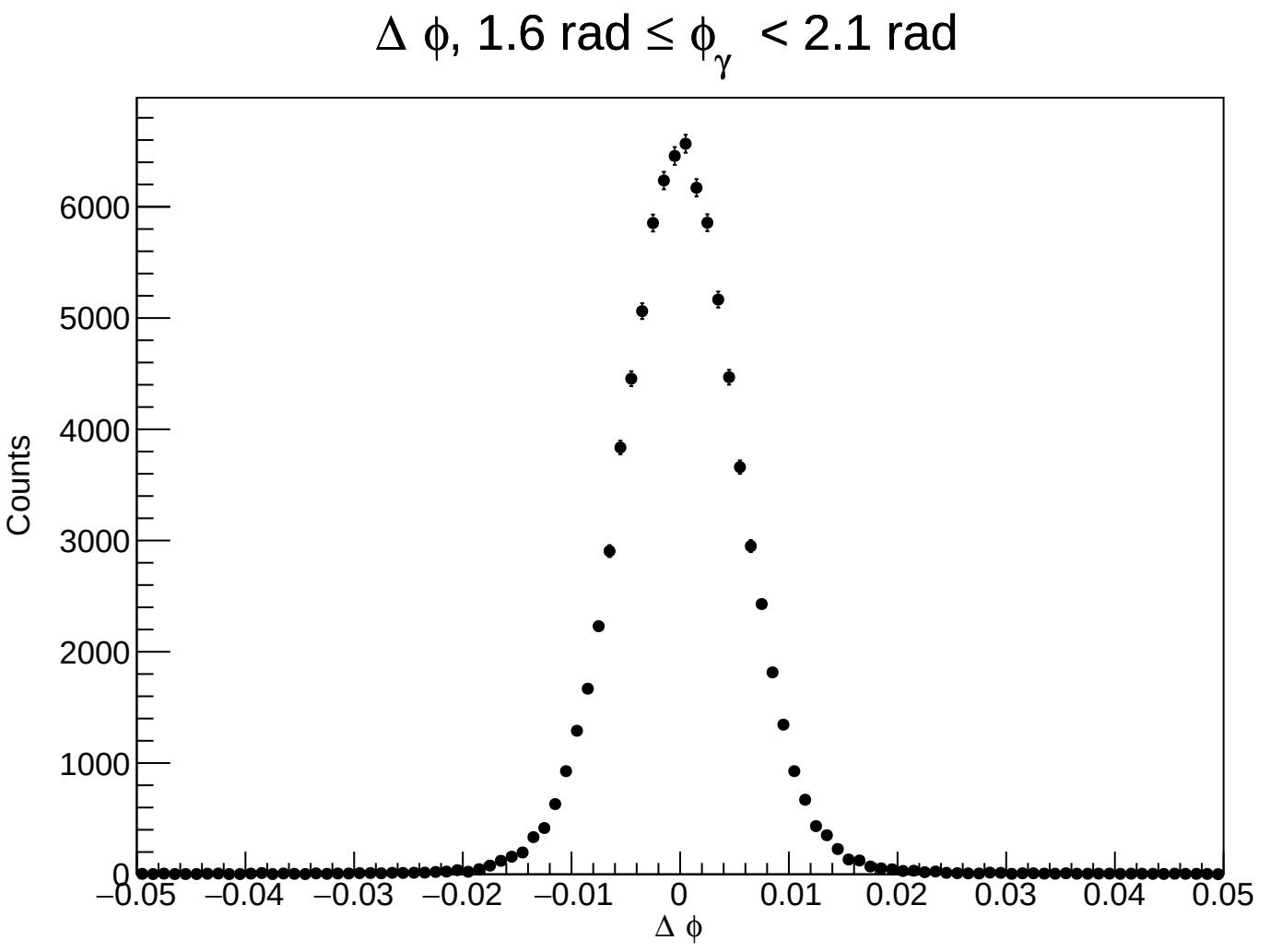

Δ ϕ, 0.0 rad ≤ ϕγ < 0.5 rad
μ=0.00011±0.00004
σ=0.00516±0.00008
Counts
6000
5000
4000
3000
2000
1000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

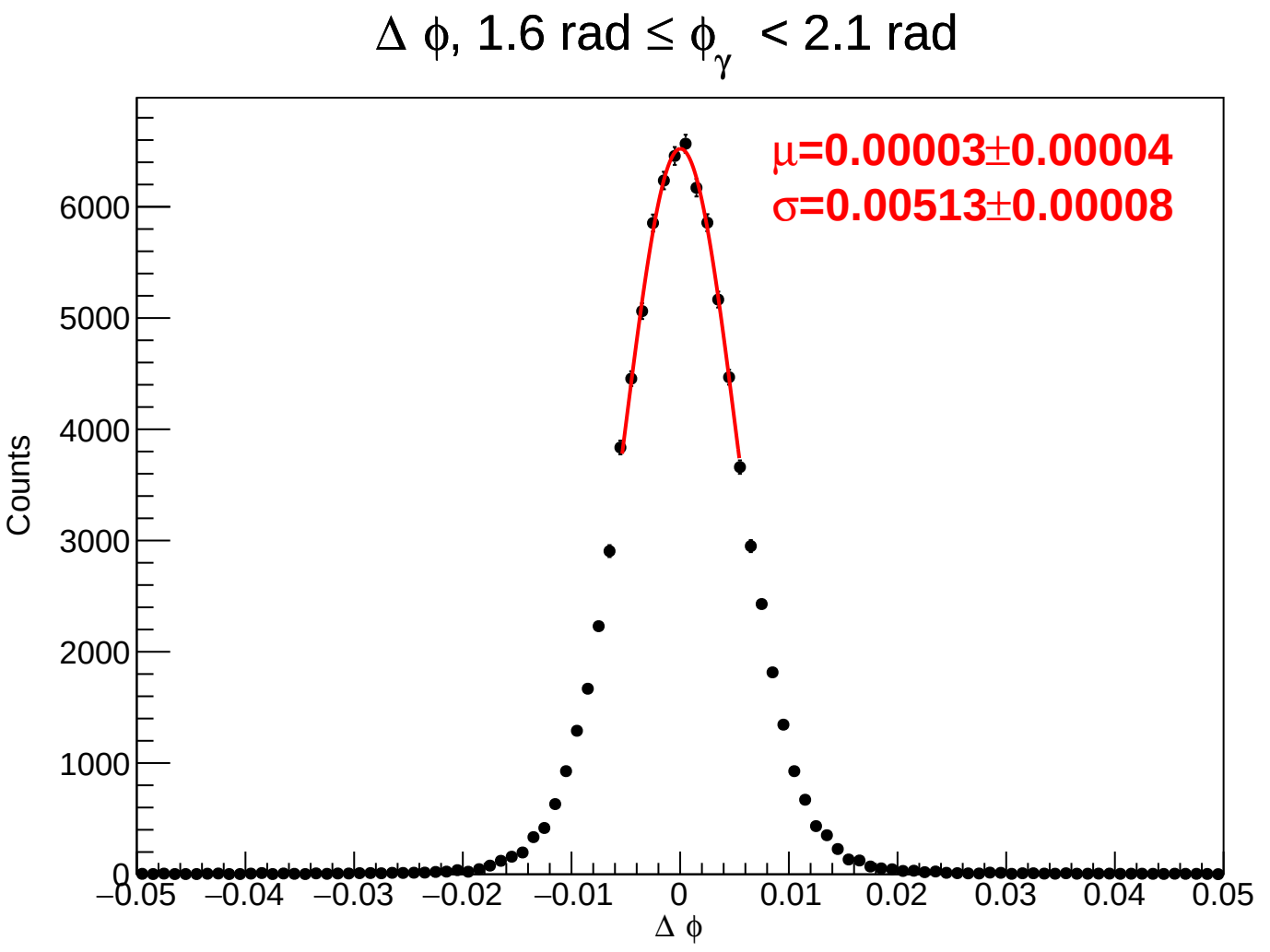

Δ ϕ, 0.5 rad ≤ ϕγ < 1.1 rad
Counts
7000
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

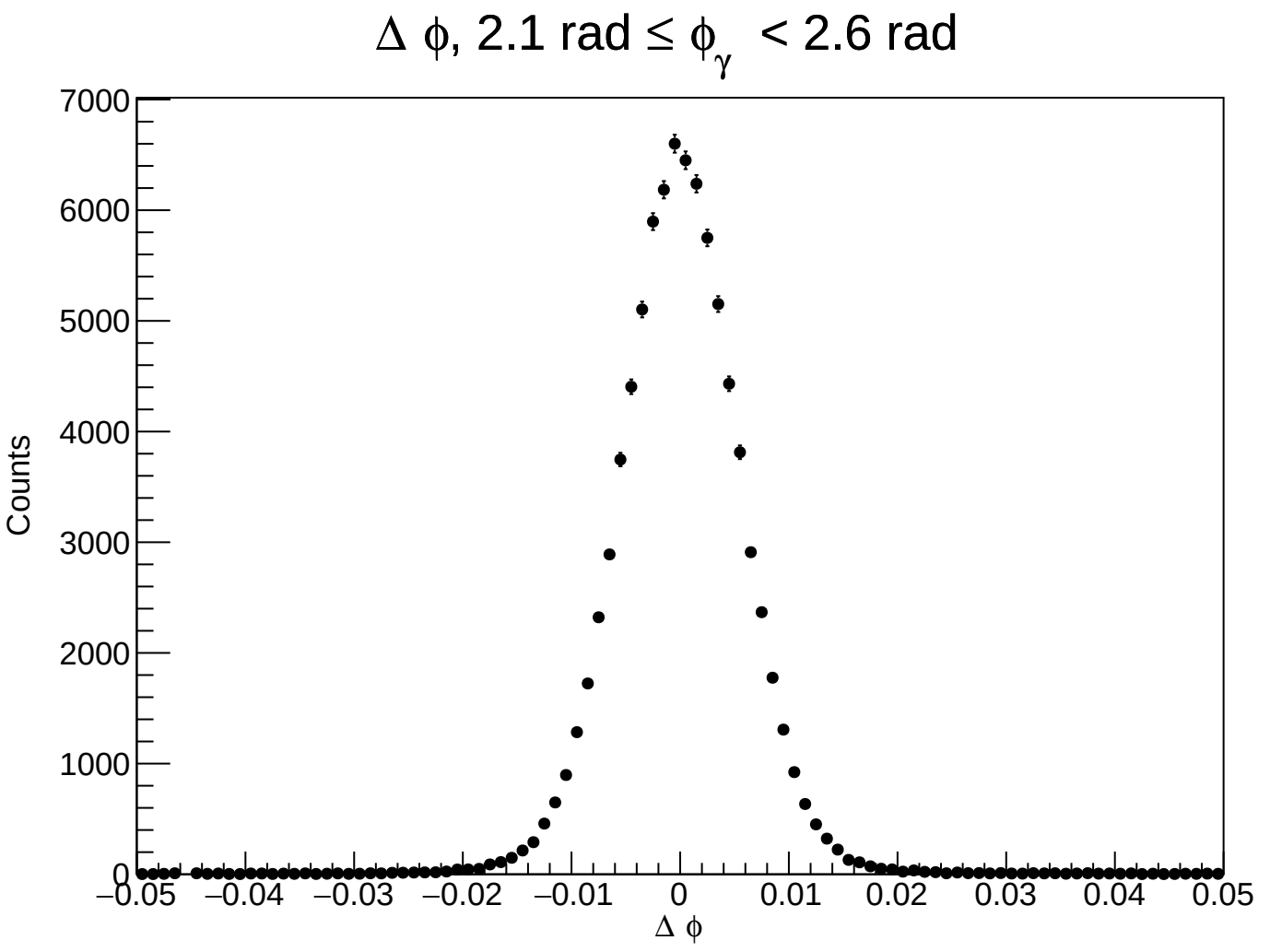

Δ ϕ, 0.5 rad ≤ ϕγ < 1.1 rad
μ=0.00002±0.00004
σ=0.00511±0.00007
Counts
Δ ϕ
7000
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

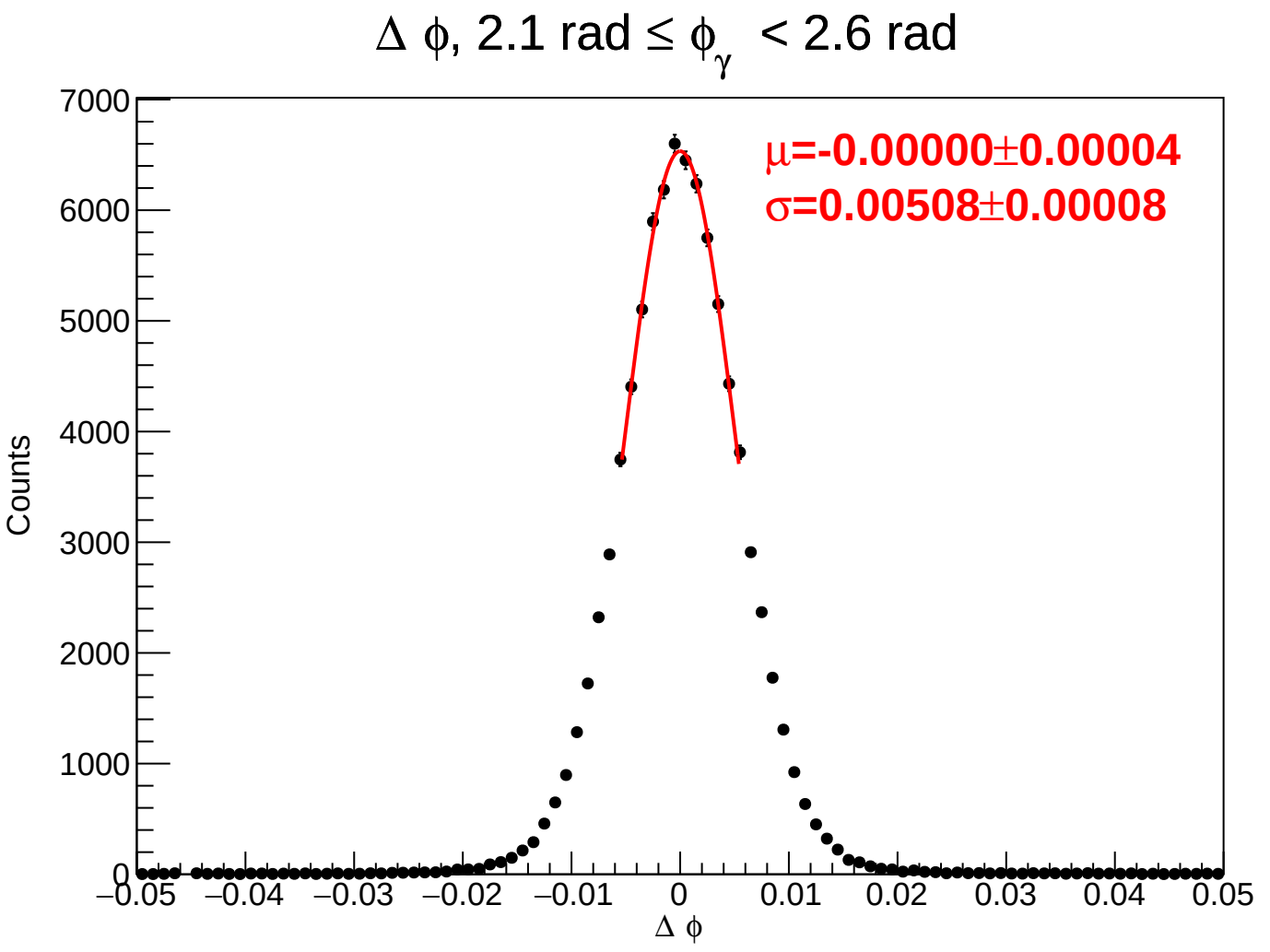

Δ ϕ, 1.1 rad ≤ ϕγ < 1.6 rad
Counts
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

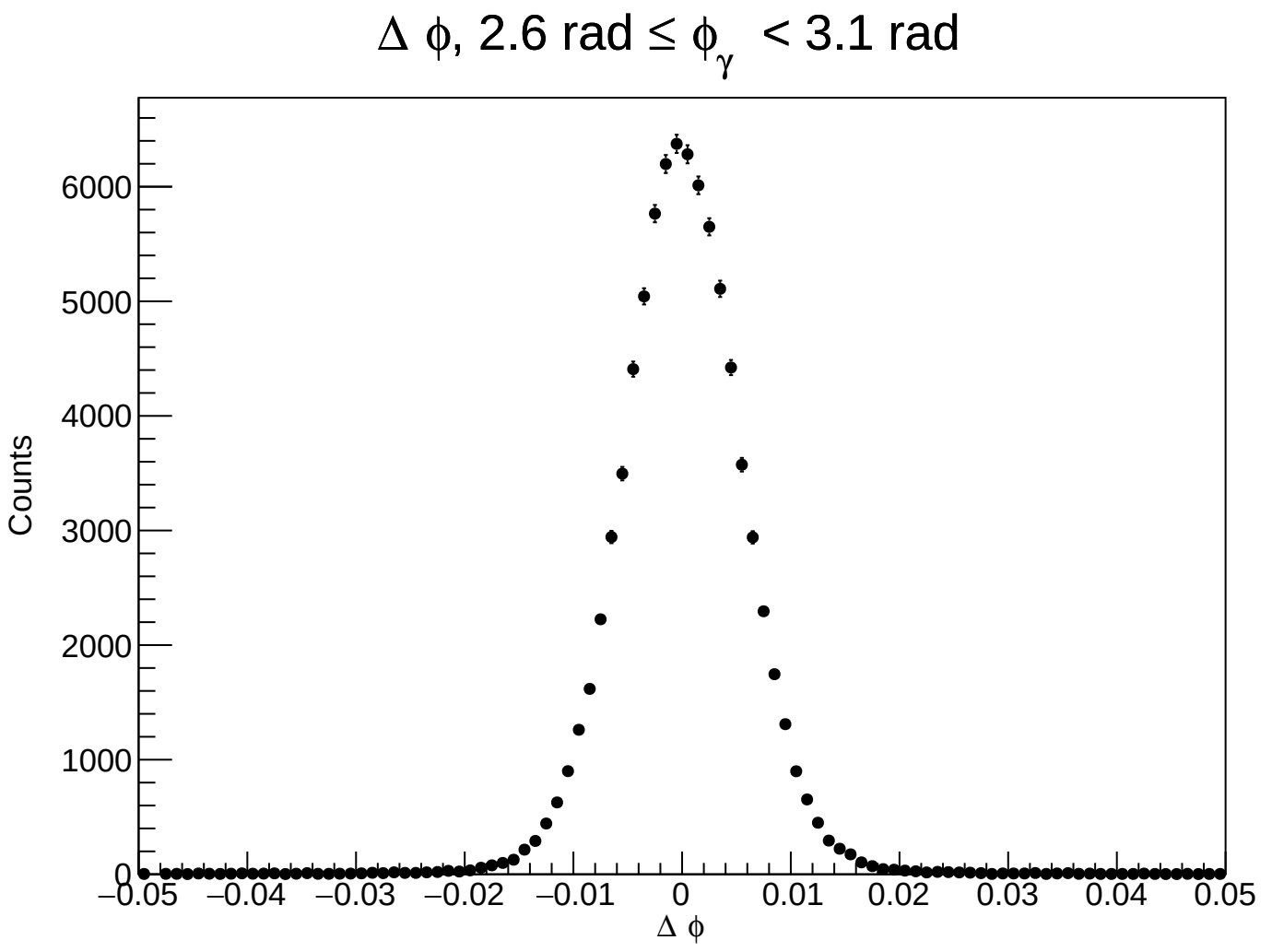

Δ ϕ, 1.1 rad ≤ ϕγ < 1.6 rad
μ=0.00010±0.00004
σ=0.00522±0.00009
Counts
Δ ϕ
0
1000
2000
3000
4000
5000
6000
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

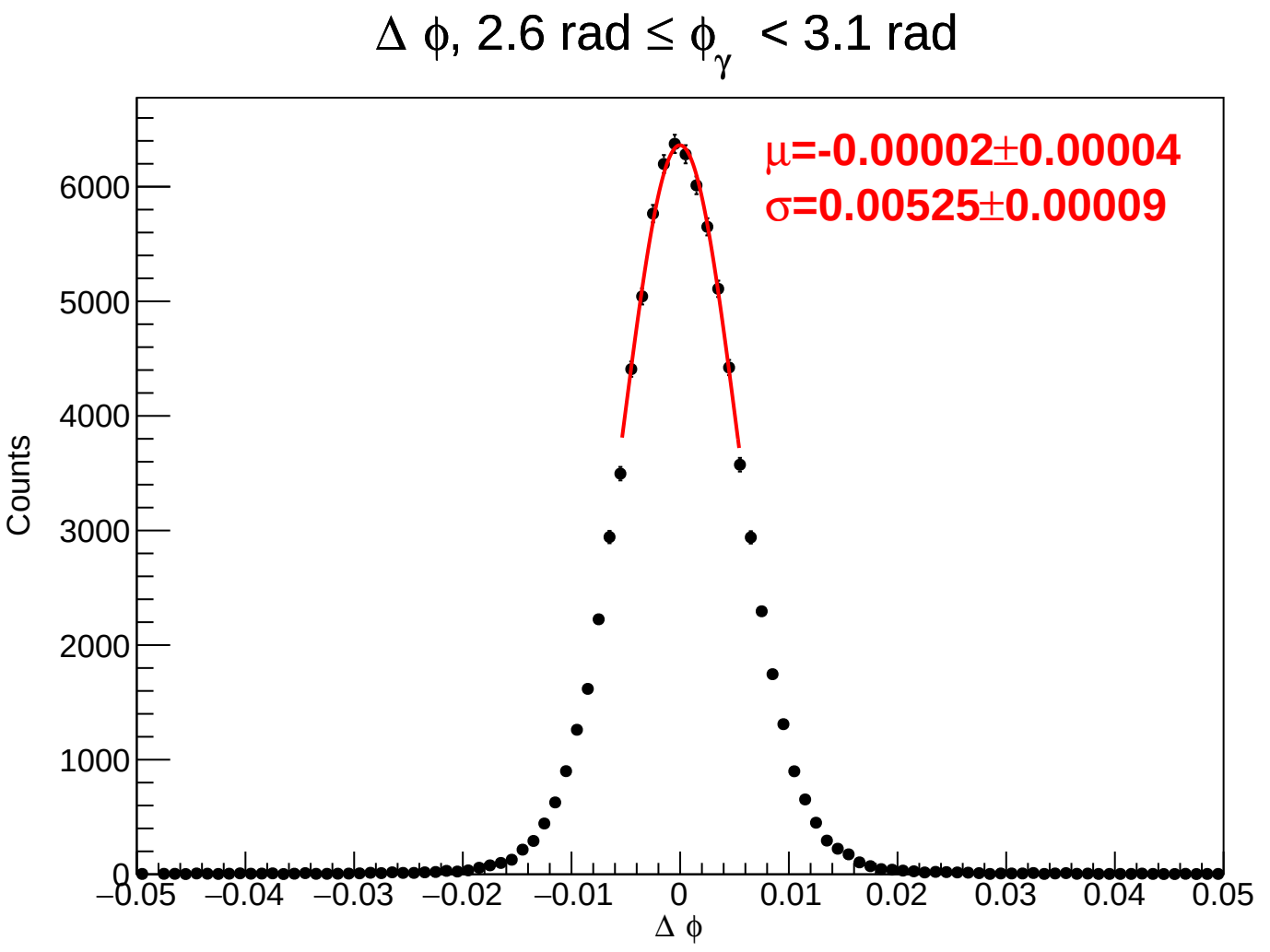

Δ ϕ, 1.6 rad ≤ ϕγ < 2.1 rad
Counts
6000
5000
4000
3000
2000
1000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

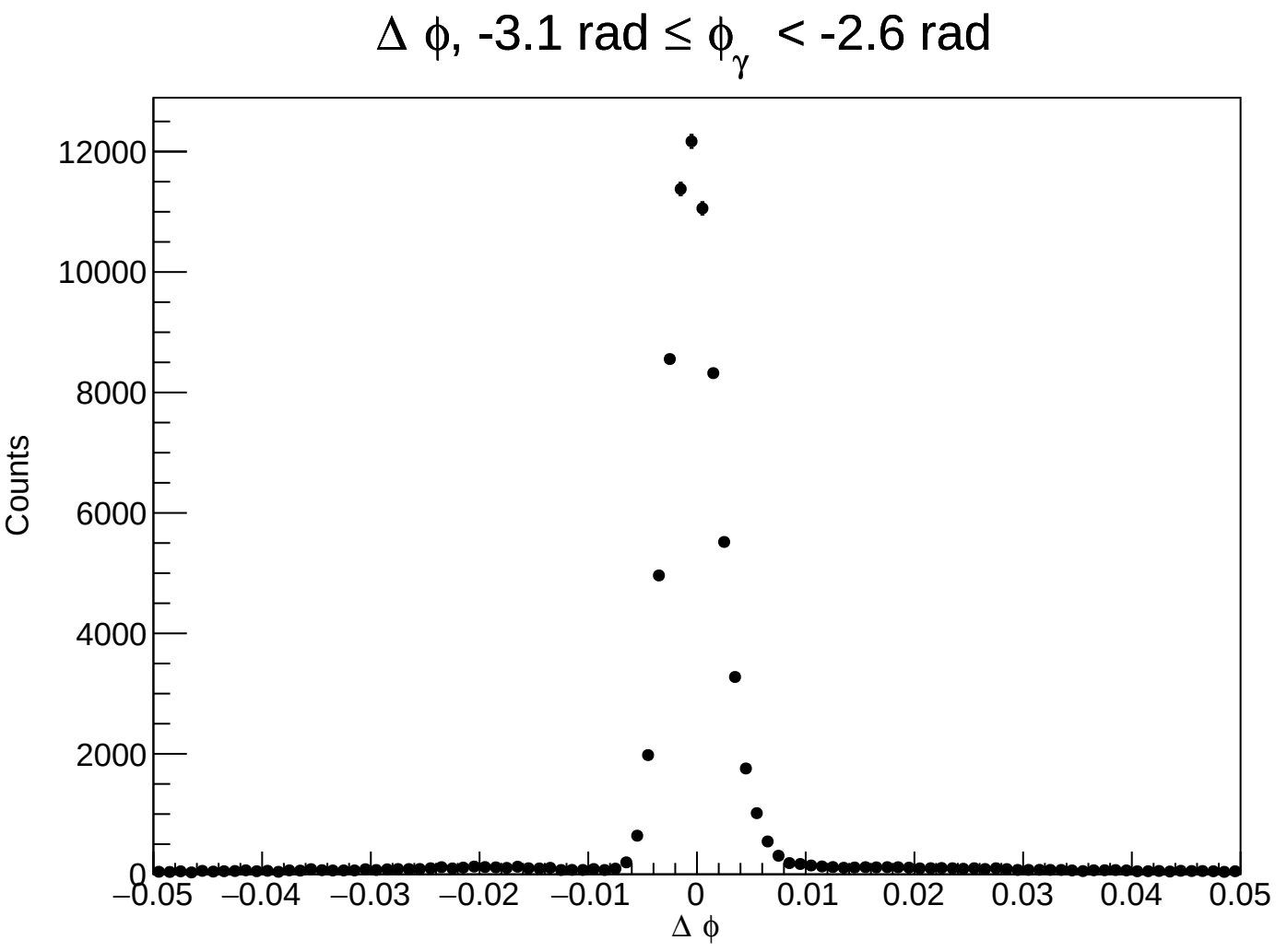

Δ ϕ, 1.6 rad ≤ ϕγ < 2.1 rad
μ=0.00003±0.00004
σ=0.00513±0.00008
Counts
6000
5000
4000
3000
2000
1000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

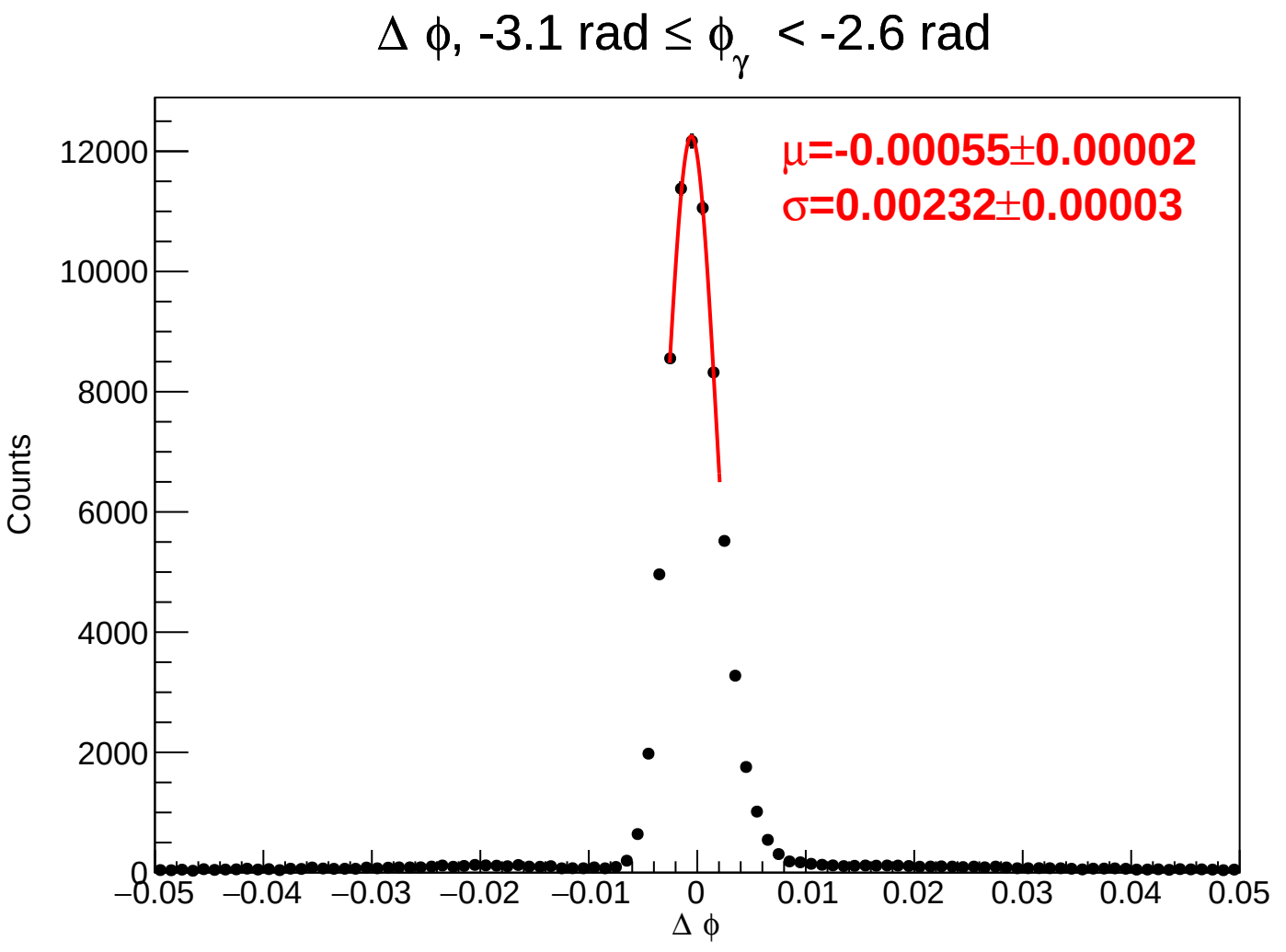

Δ ϕ, 2.1 rad ≤ ϕγ < 2.6 rad
Counts
7000
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

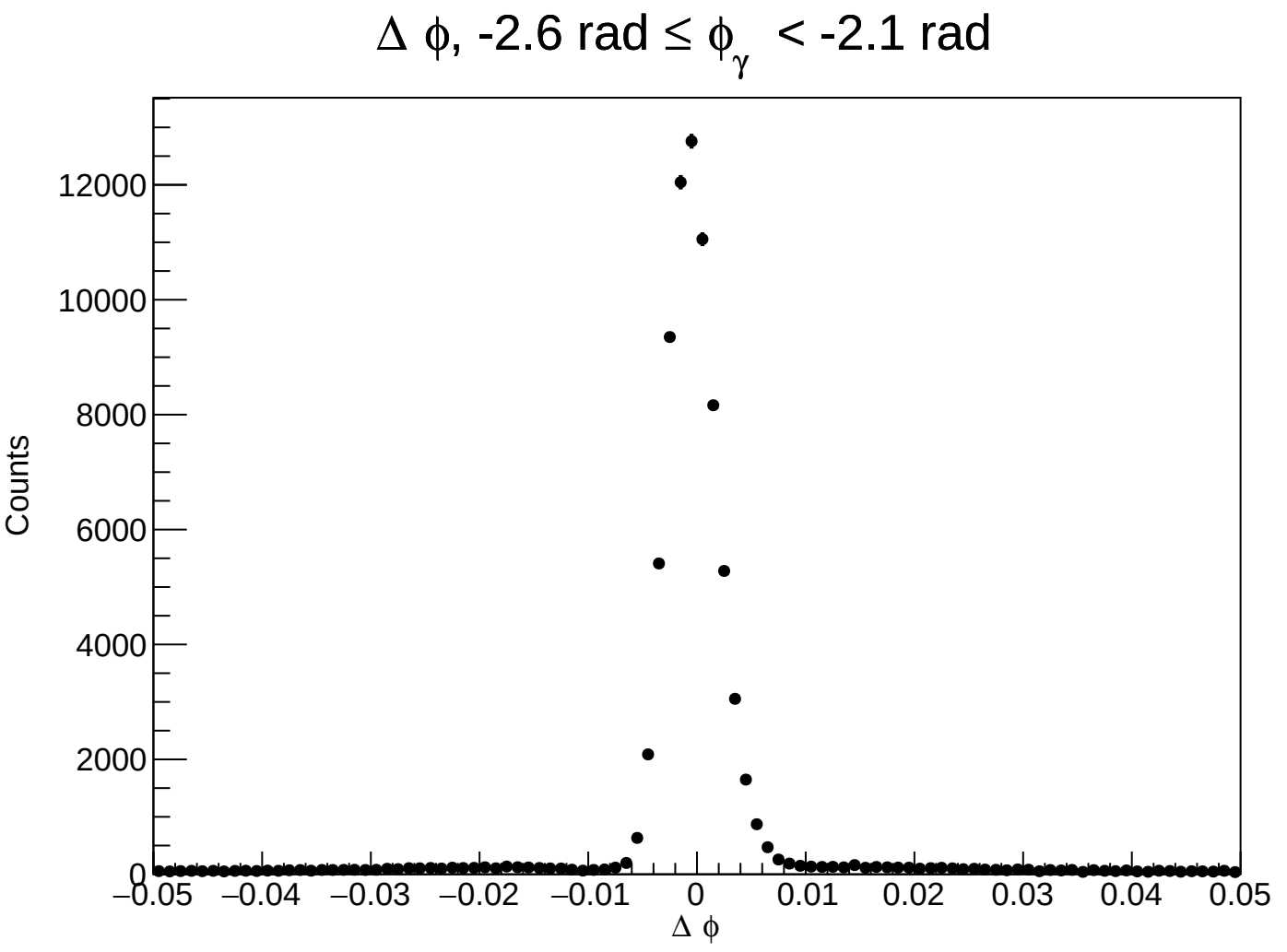

Δ ϕ, 2.1 rad ≤ ϕγ < 2.6 rad
μ=-0.00000±0.00004
σ=0.00508±0.00008
Counts
Δ ϕ
7000
6000
5000
4000
3000
2000
1000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

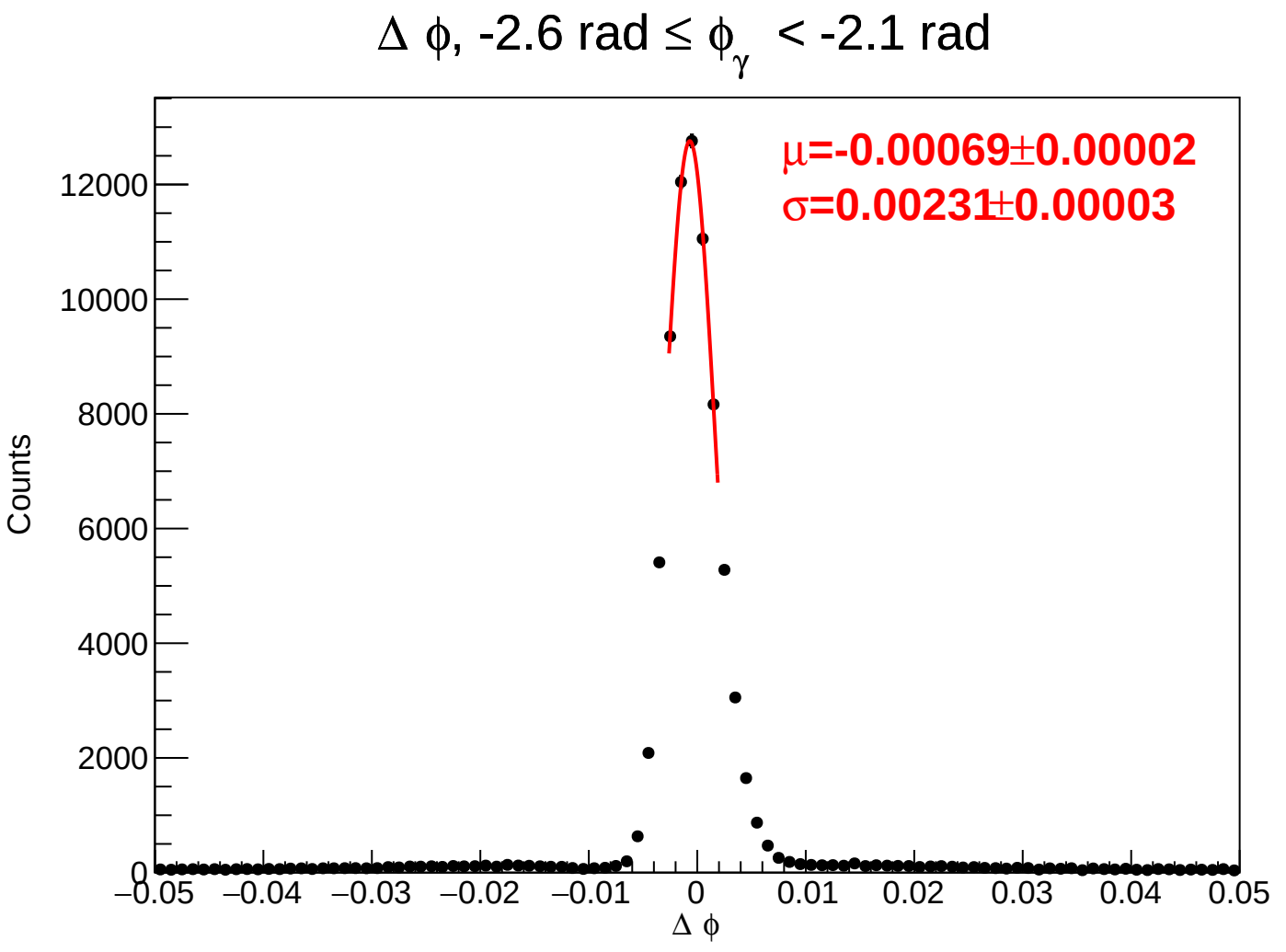

Δ ϕ, 2.6 rad ≤ ϕγ < 3.1 rad
Counts
6000
5000
4000
3000
2000
1000
0
−0.05
−0.04
−0.03
−0.02
−0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

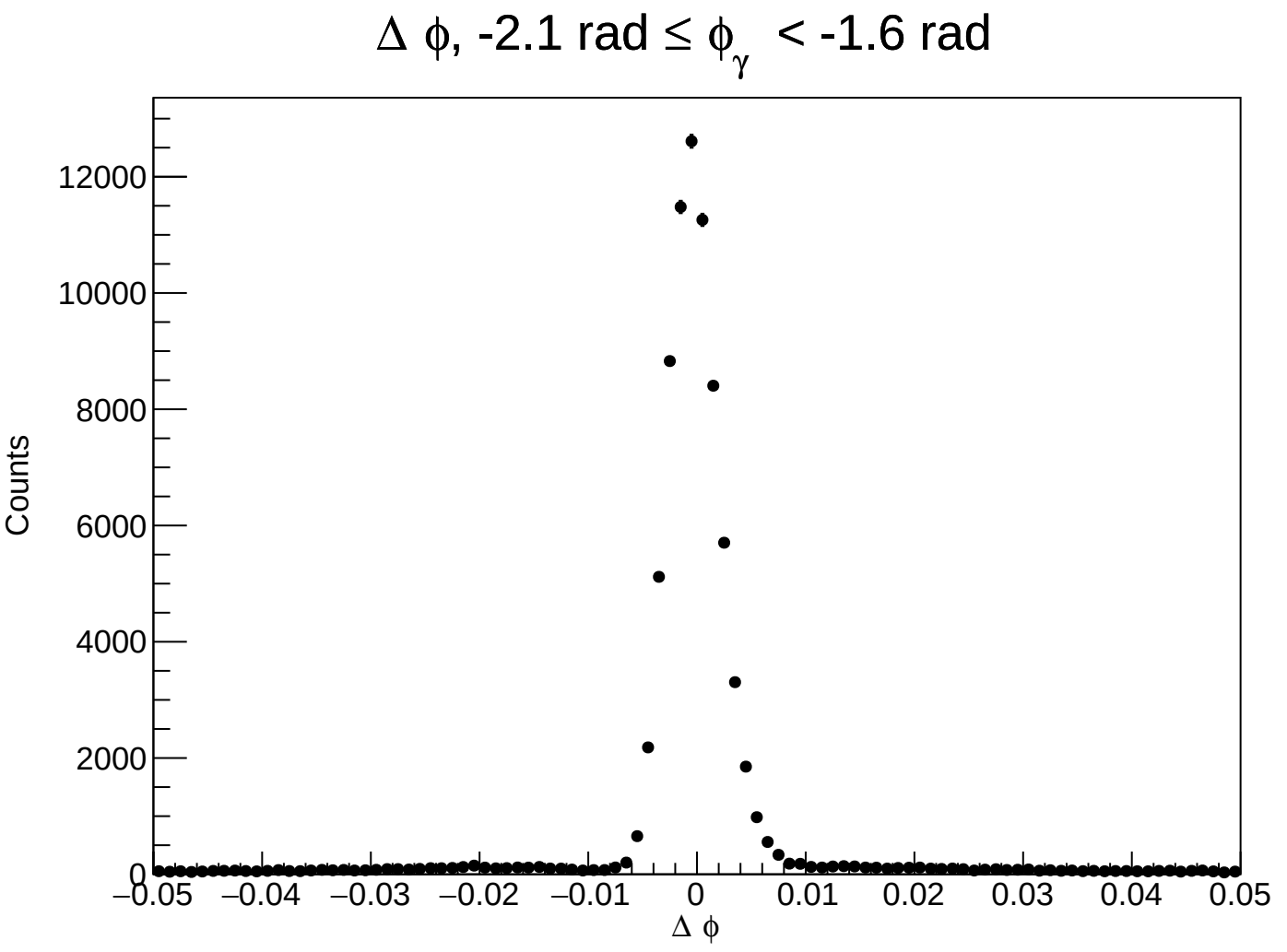

Δ ϕ, 2.6 rad ≤ ϕγ < 3.1 rad
μ=-0.00002±0.00004
σ=0.00525±0.00009
Counts
Δ ϕ
0
1000
2000
3000
4000
5000
6000
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

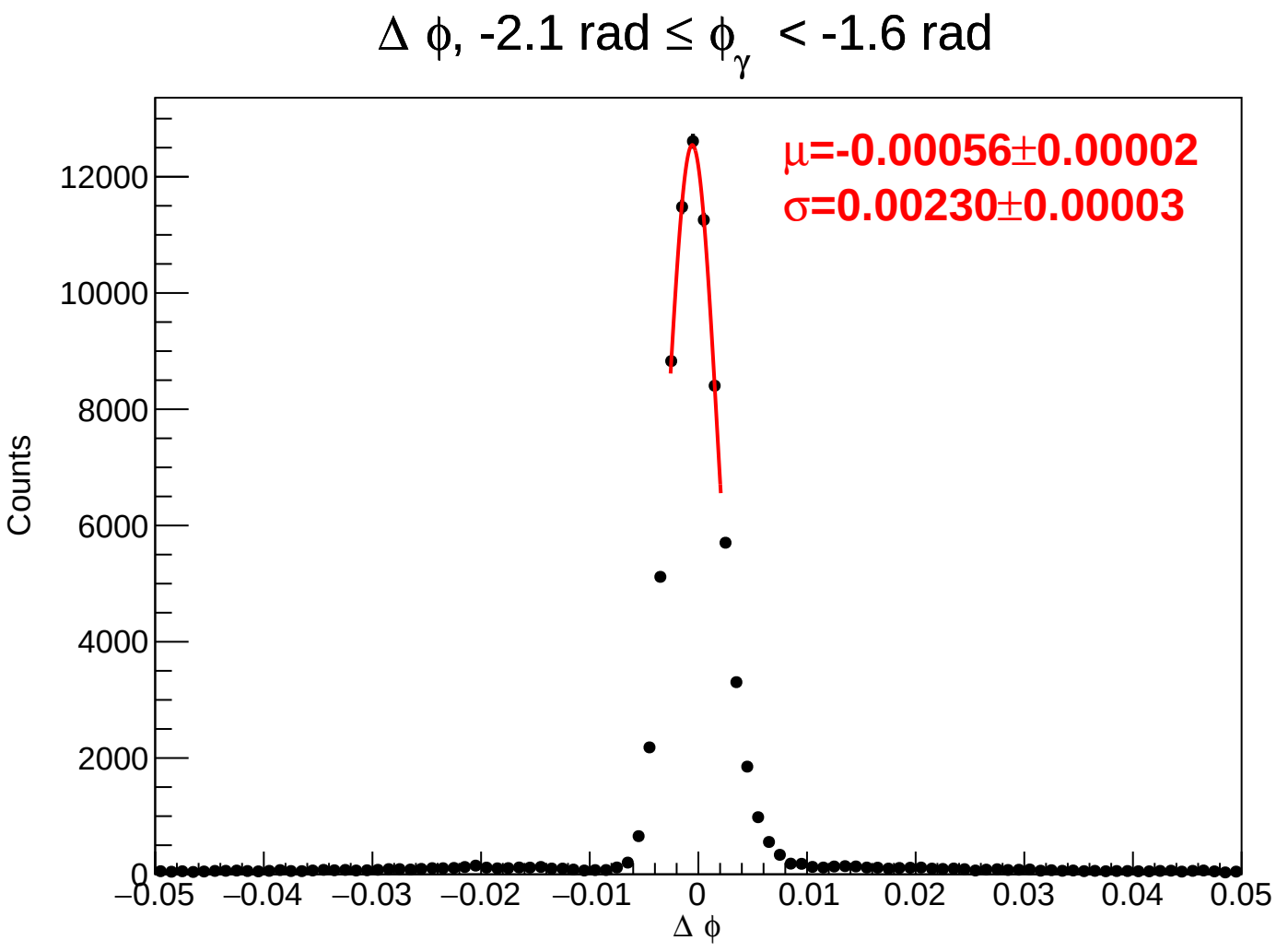

Δ ϕ, -3.1 rad ≤ ϕγ < -2.6 rad
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

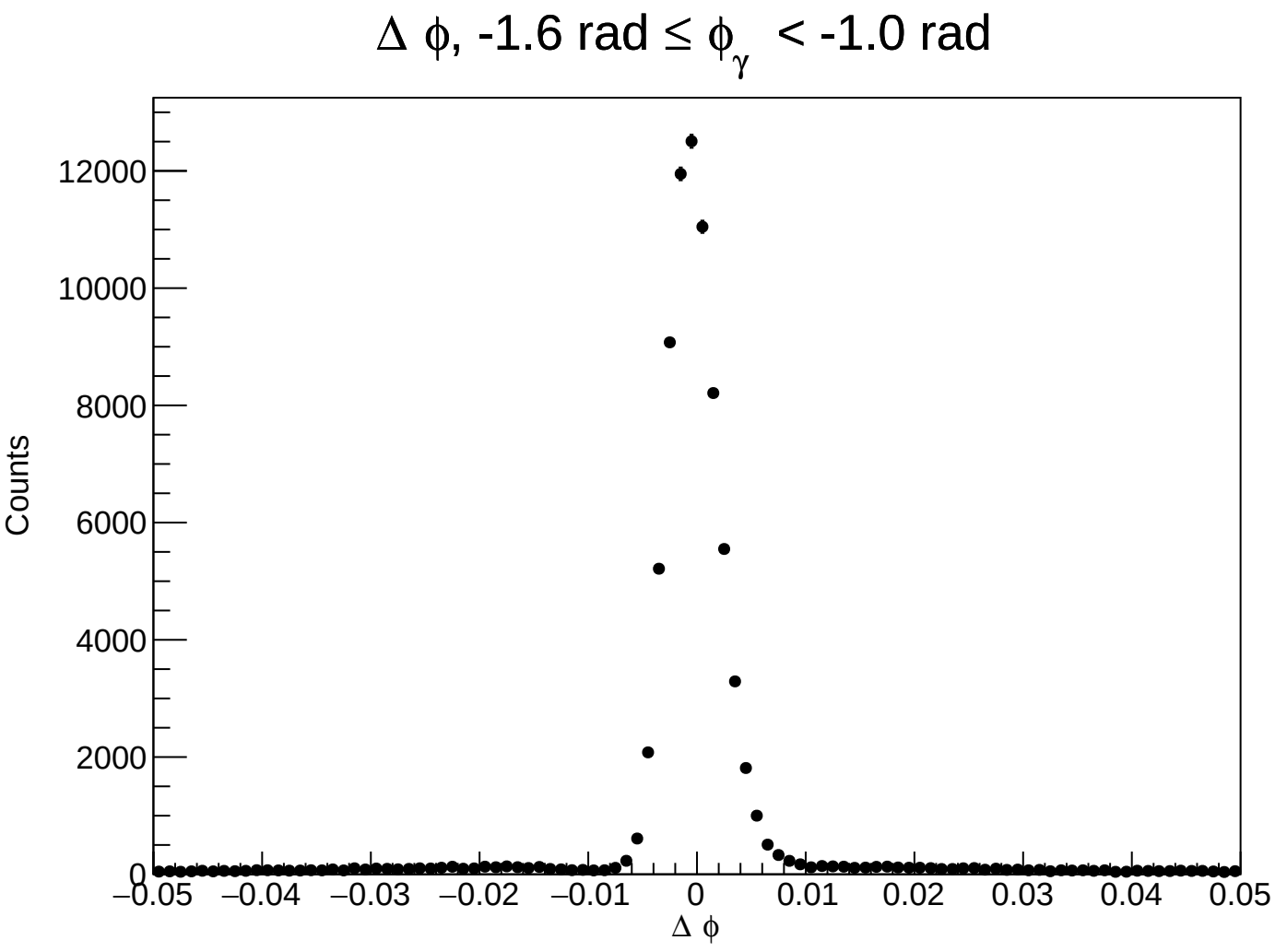

Δ ϕ, -3.1 rad ≤ ϕγ < -2.6 rad
μ=-0.00055±0.00002
σ=0.00232±0.00003
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

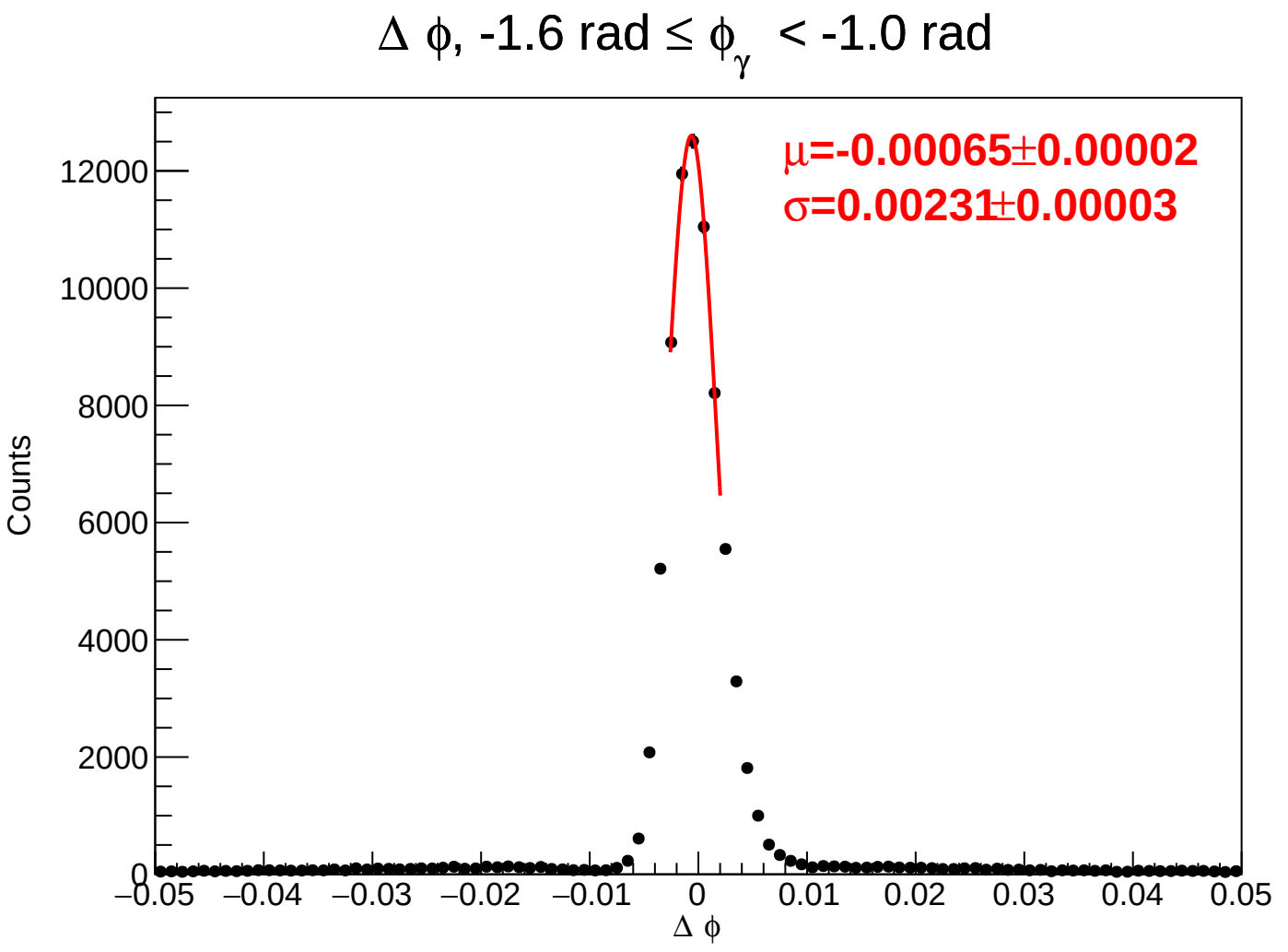

Δ ϕ, -2.6 rad ≤ ϕγ < -2.1 rad
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

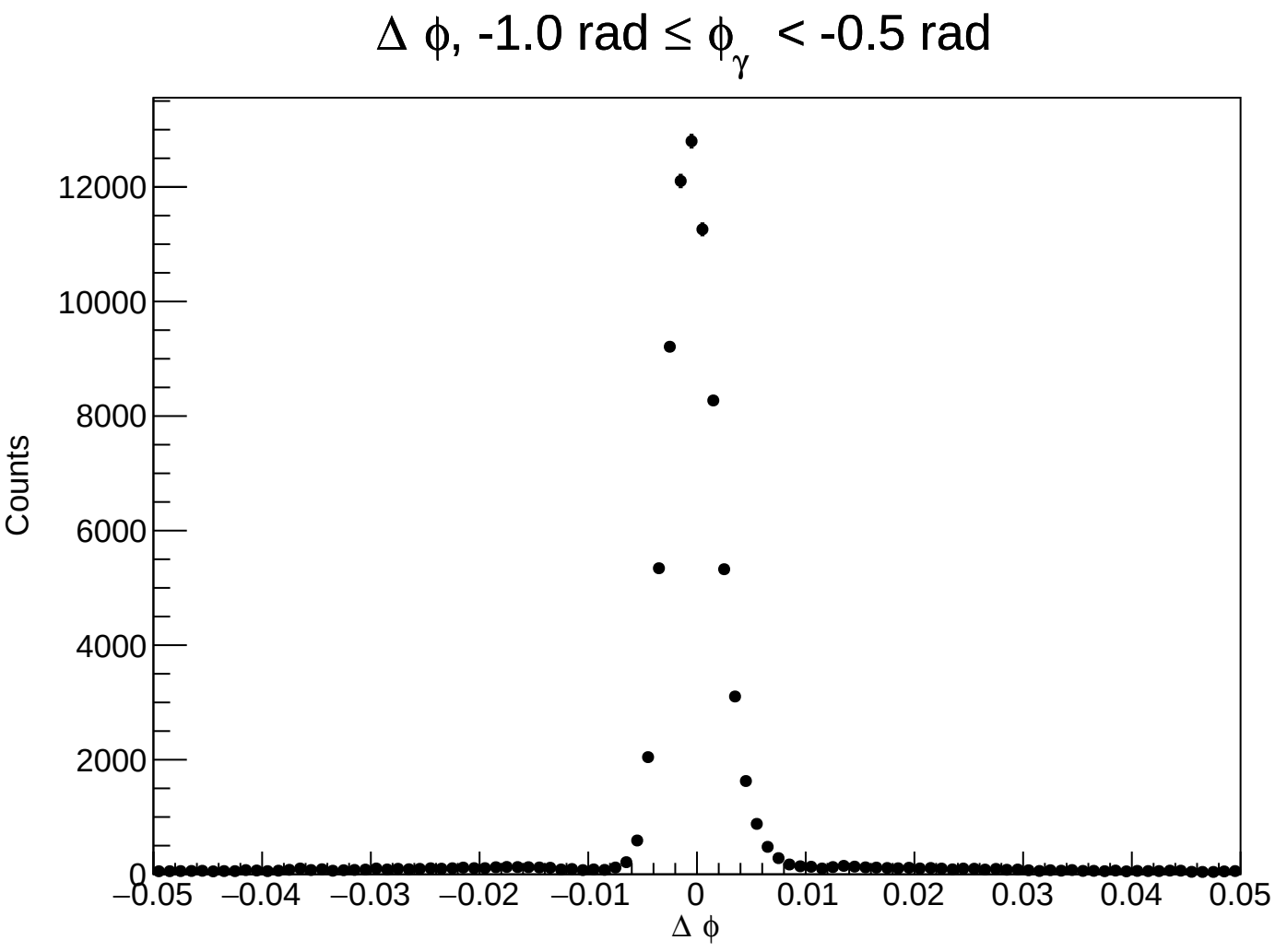

Δ ϕ, -2.6 rad ≤ ϕγ < -2.1 rad
μ=-0.00069±0.00002
σ=0.00231±0.00003
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

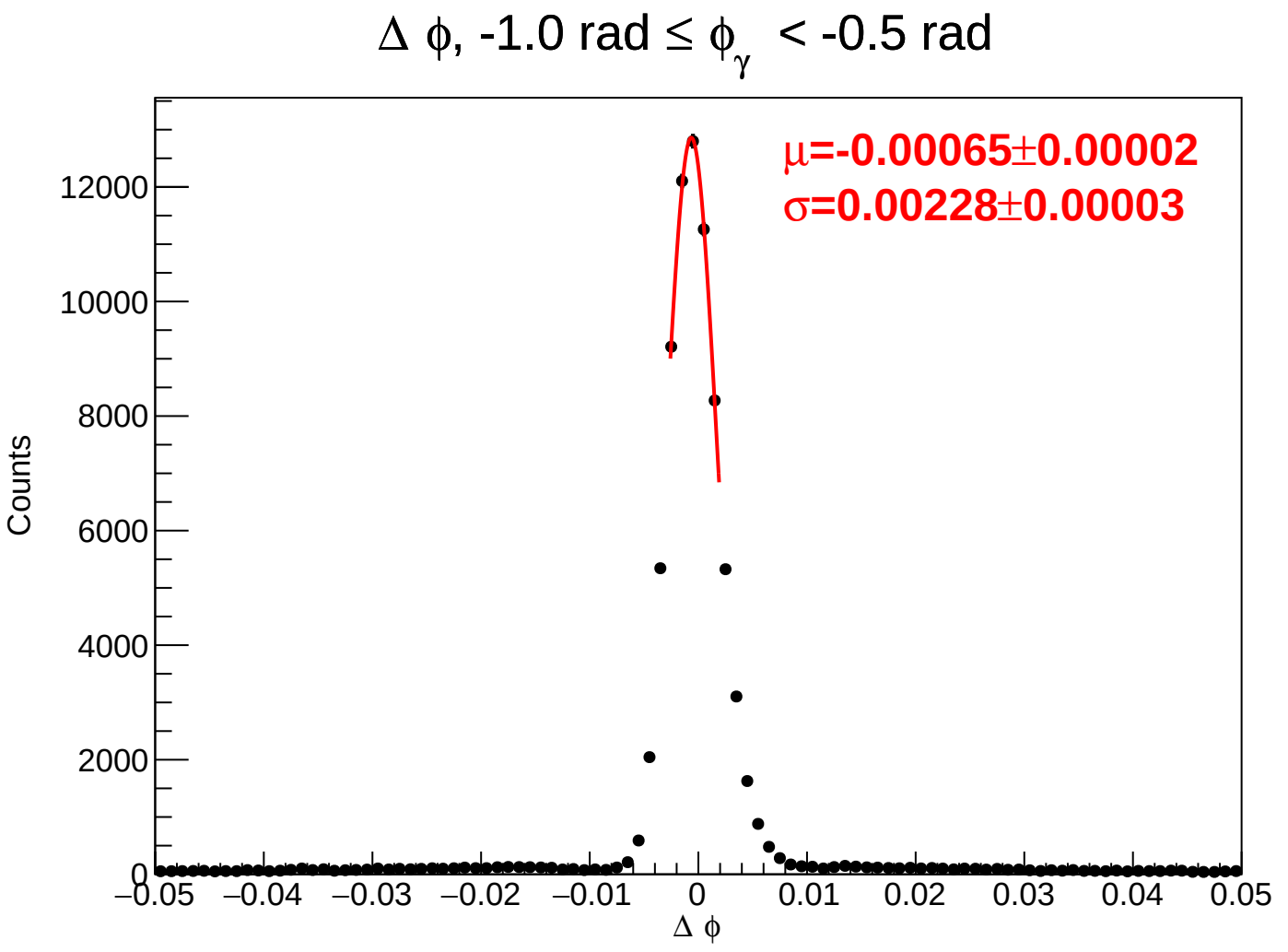

Δ ϕ, -2.1 rad ≤ ϕγ < -1.6 rad
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

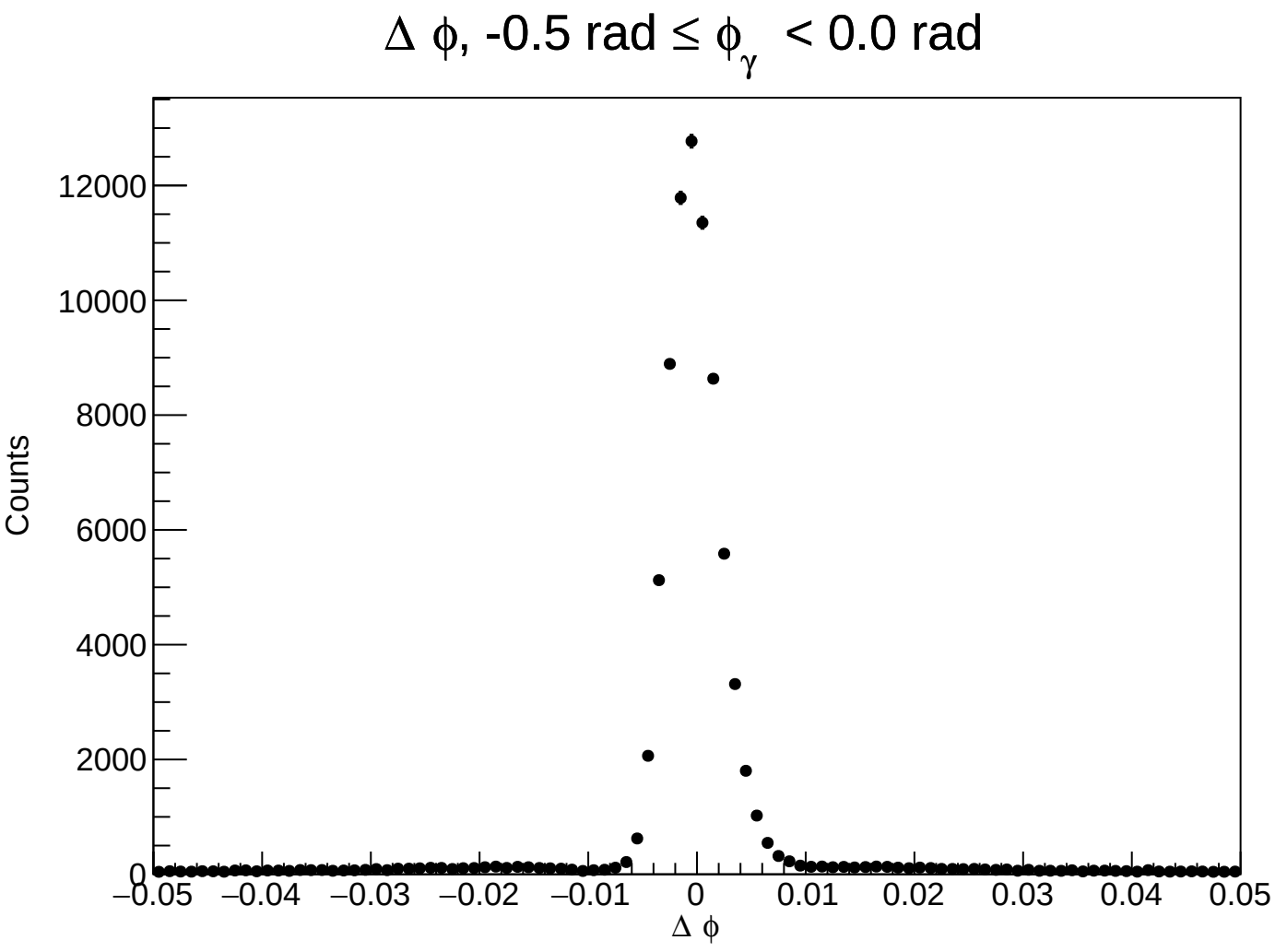

Δ ϕ, -2.1 rad ≤ ϕγ < -1.6 rad
μ=-0.00056±0.00002
σ=0.00230±0.00003
Counts
Δ ϕ
0
2000
4000
6000
8000
10000
12000
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05

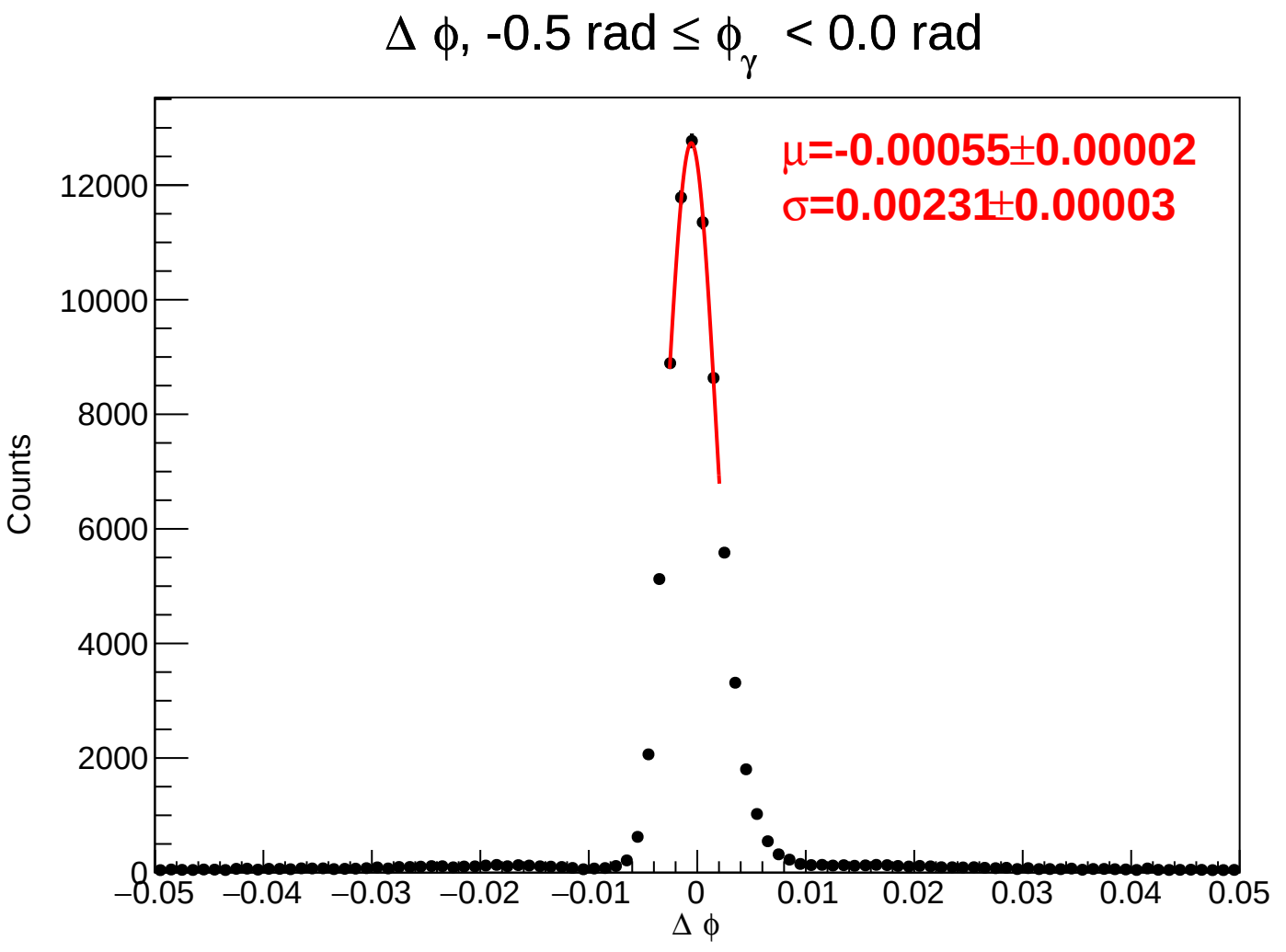

Δ ϕ, -1.6 rad ≤ ϕγ < -1.0 rad
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

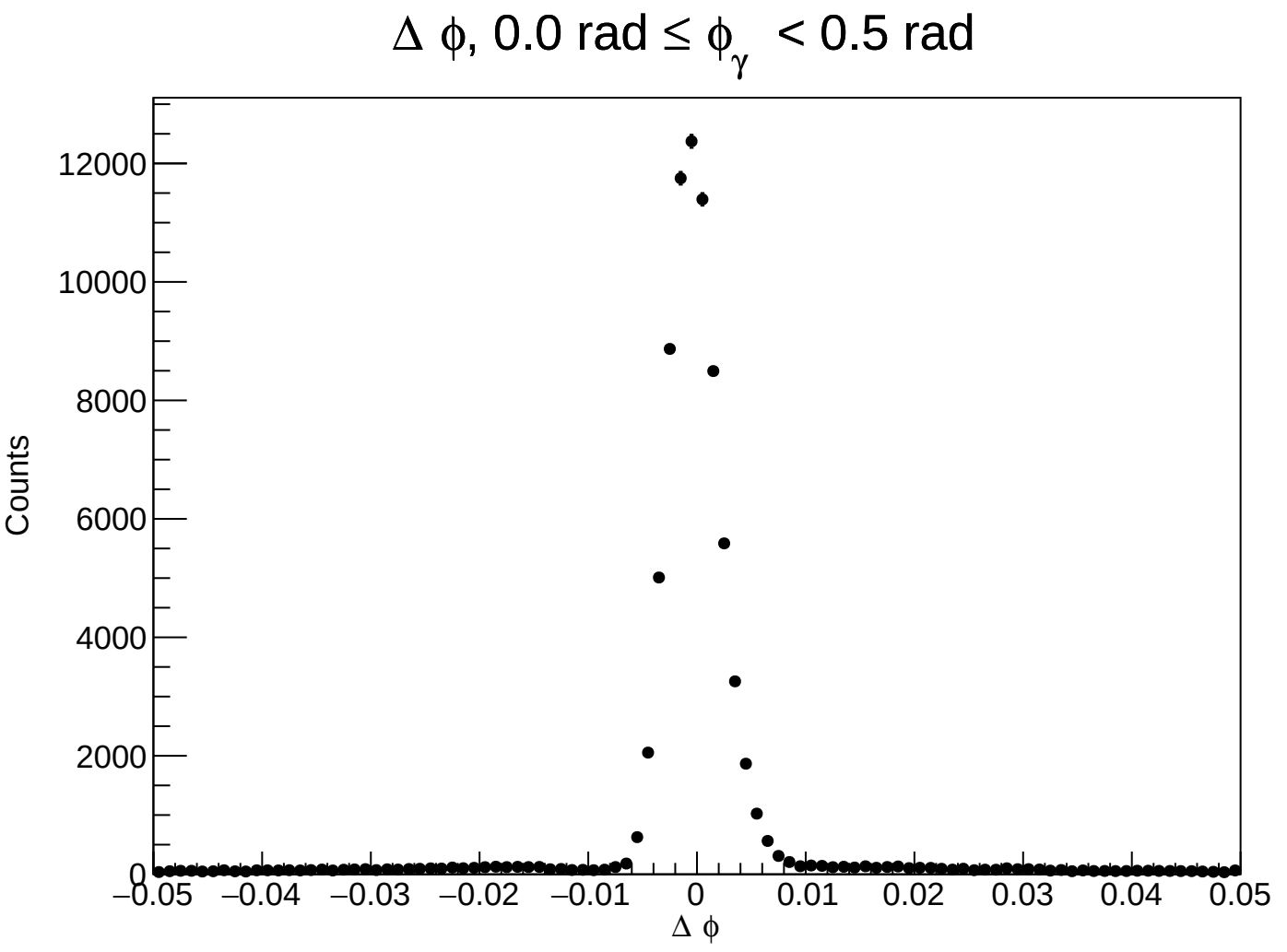

Δ ϕ, -1.6 rad ≤ ϕγ < -1.0 rad
μ=-0.00065±0.00002
σ=0.00231±0.00003
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

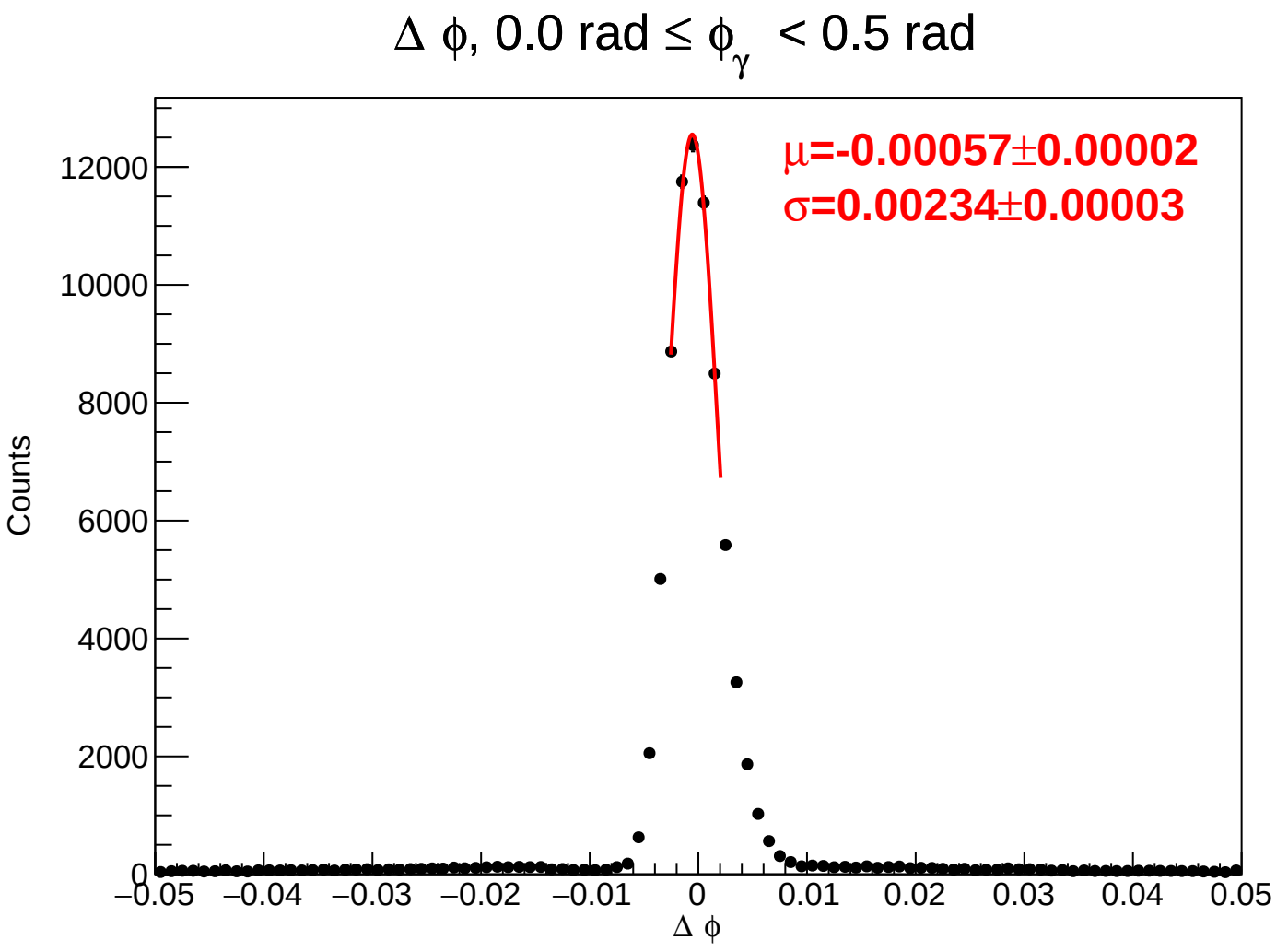

Δ ϕ, -1.0 rad ≤ ϕγ < -0.5 rad
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

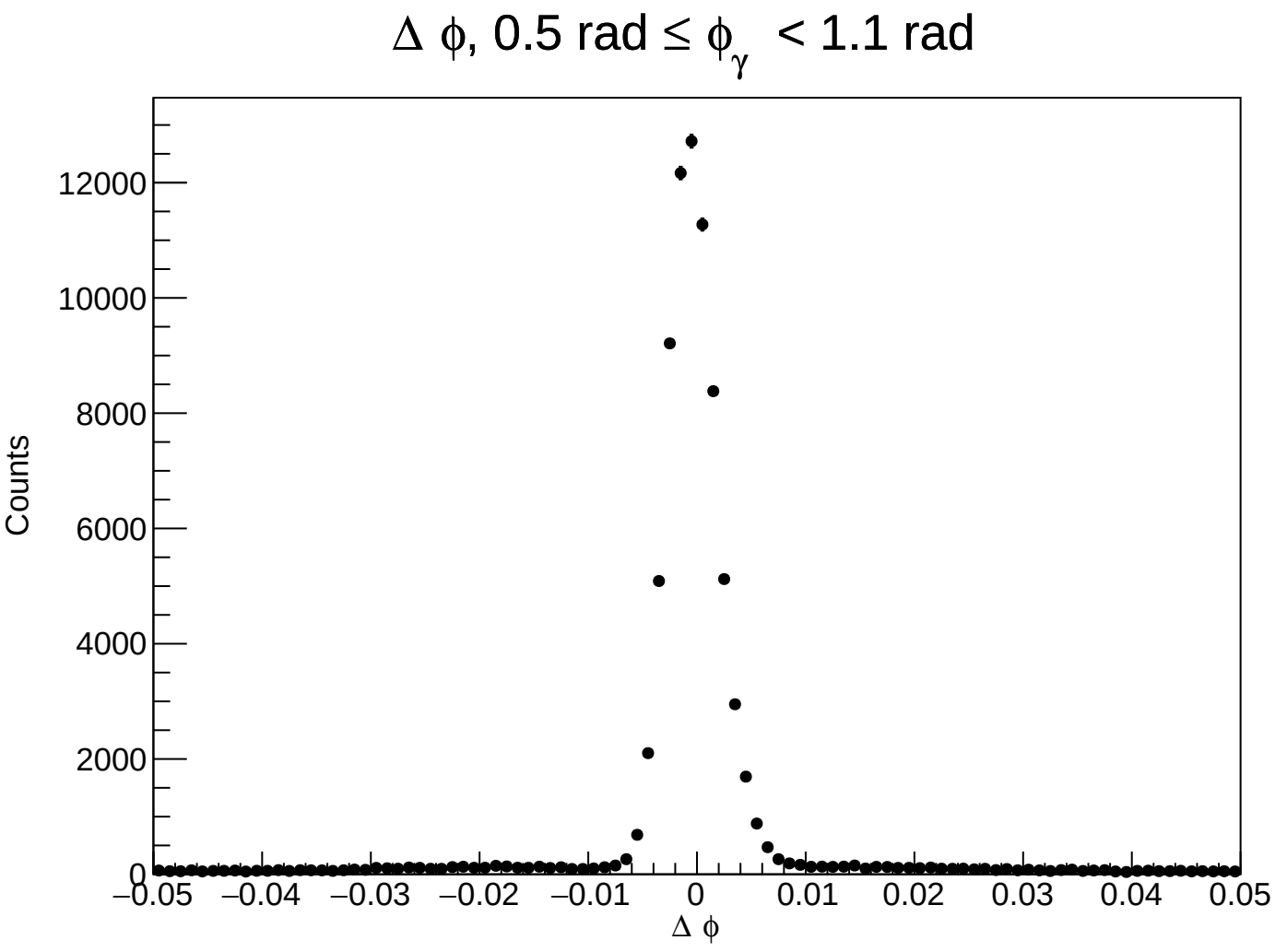

Δ ϕ, -1.0 rad ≤ ϕγ < -0.5 rad
μ=-0.00065±0.00002
σ=0.00228±0.00003
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

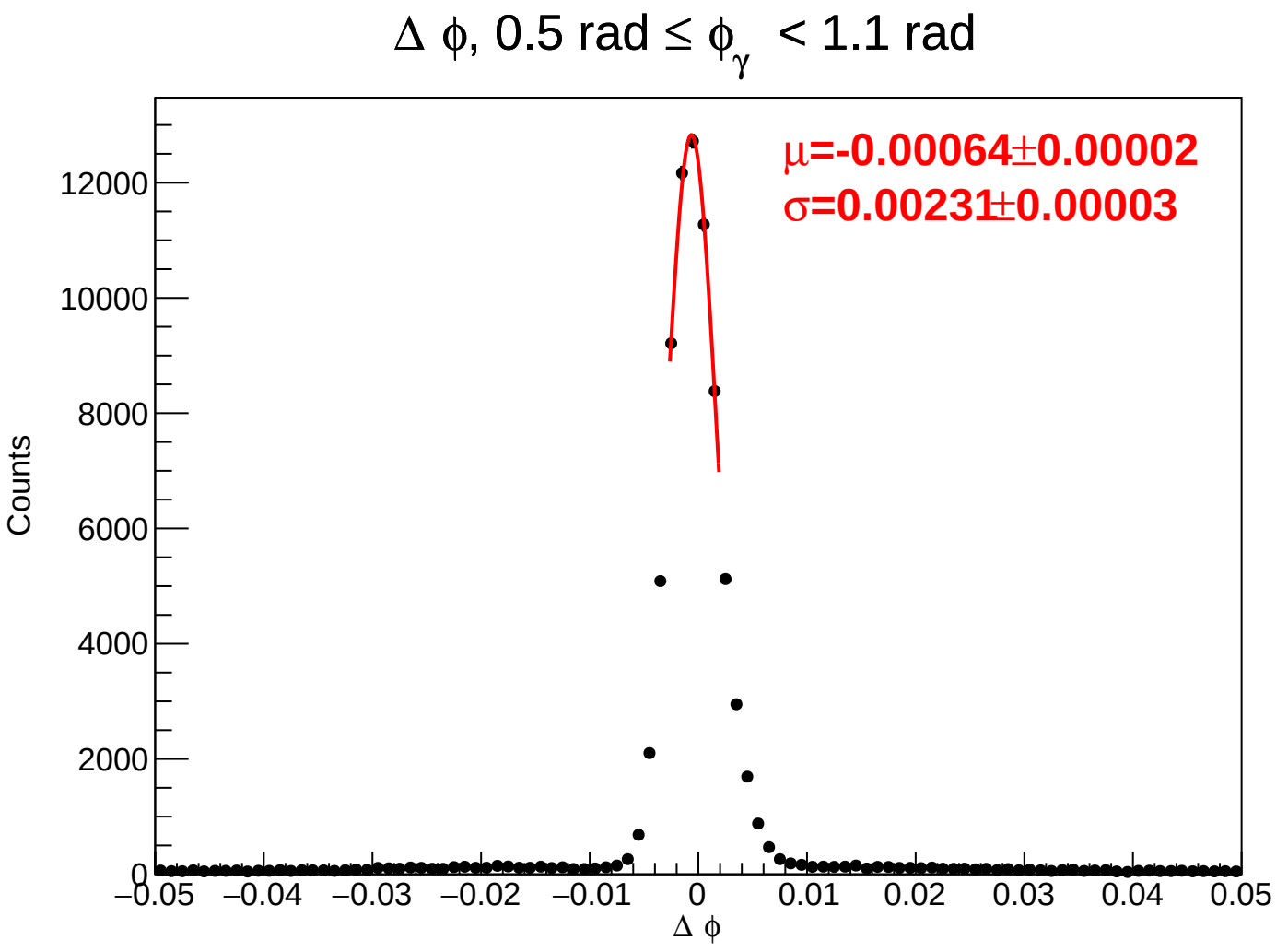

Δ ϕ, -0.5 rad ≤ ϕγ < 0.0 rad
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

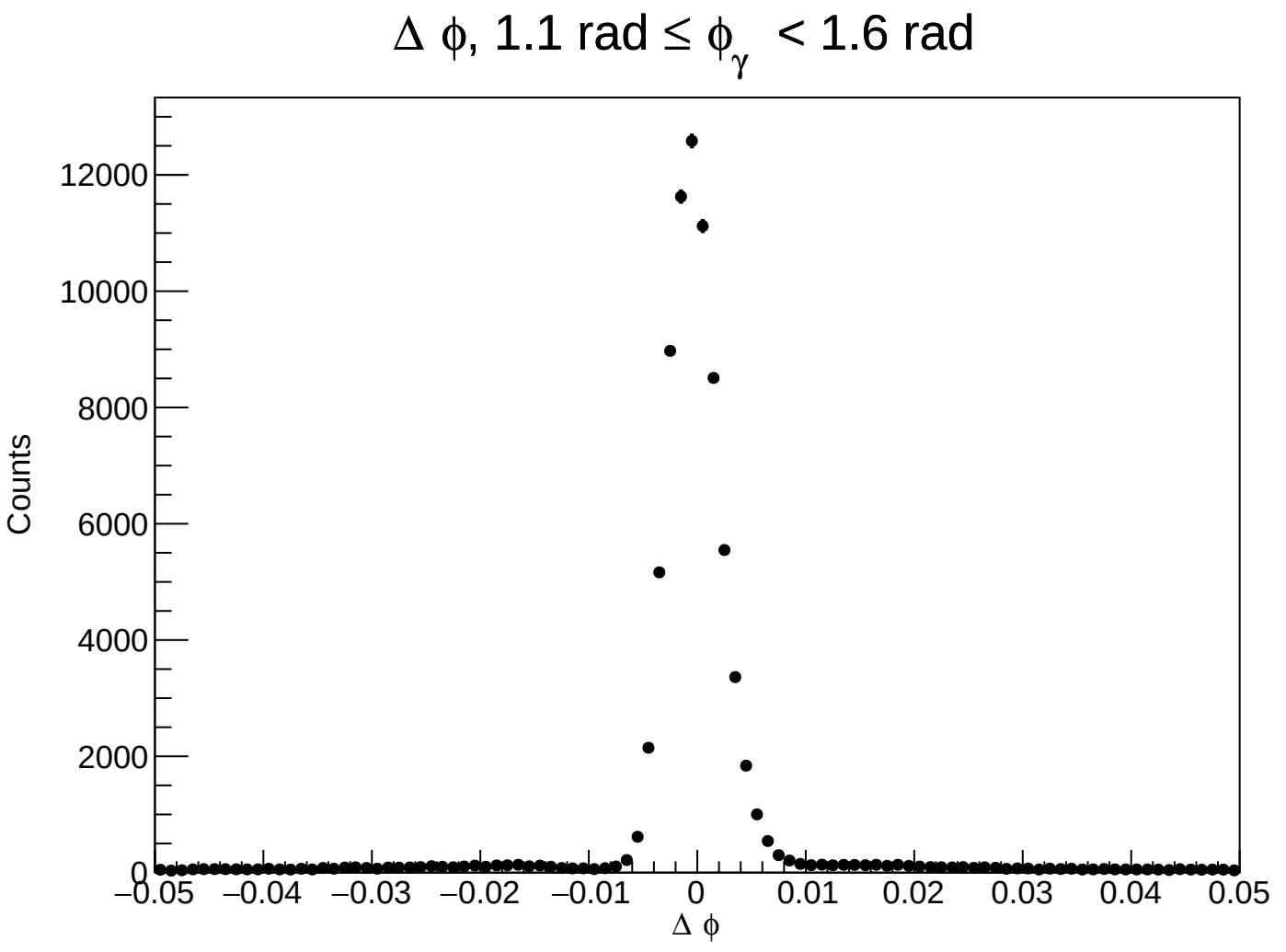

Δ ϕ, -0.5 rad ≤ ϕγ < 0.0 rad
μ=-0.00055±0.00002
σ=0.00231±0.00003
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

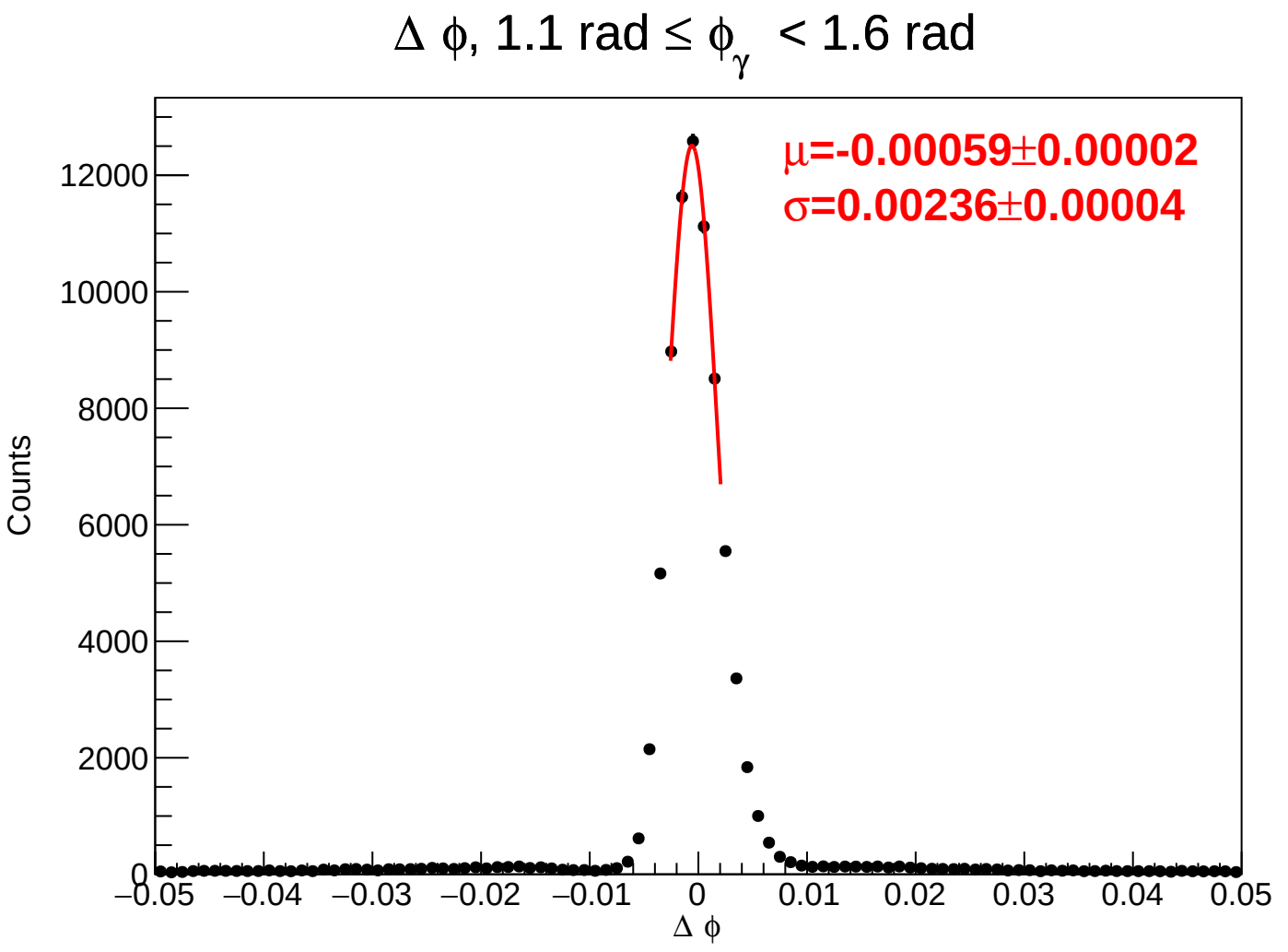

Δ ϕ, 0.0 rad ≤ ϕγ < 0.5 rad
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

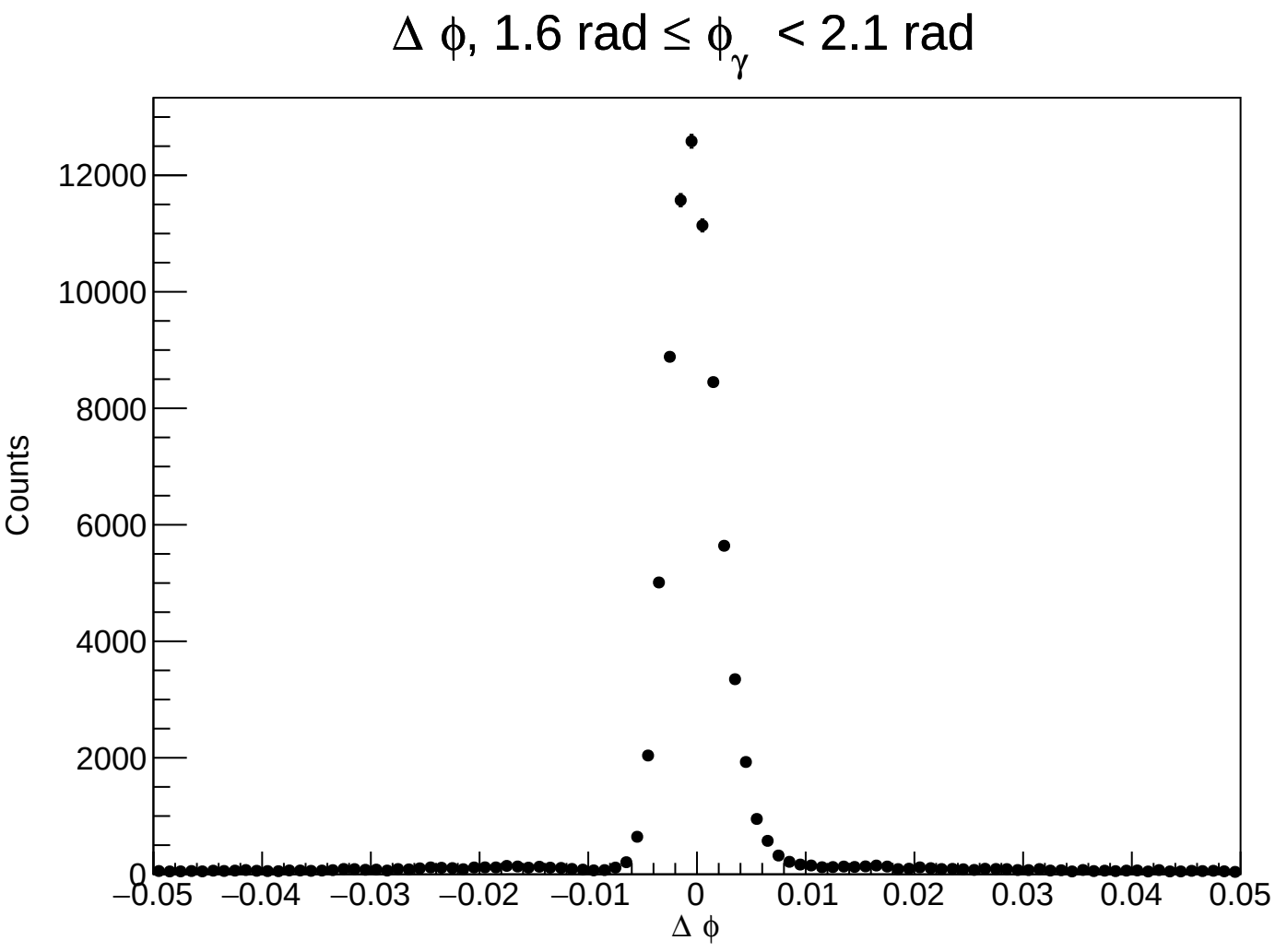

Δ ϕ, 0.0 rad ≤ ϕγ < 0.5 rad
μ=-0.00057±0.00002
σ=0.00234±0.00003
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

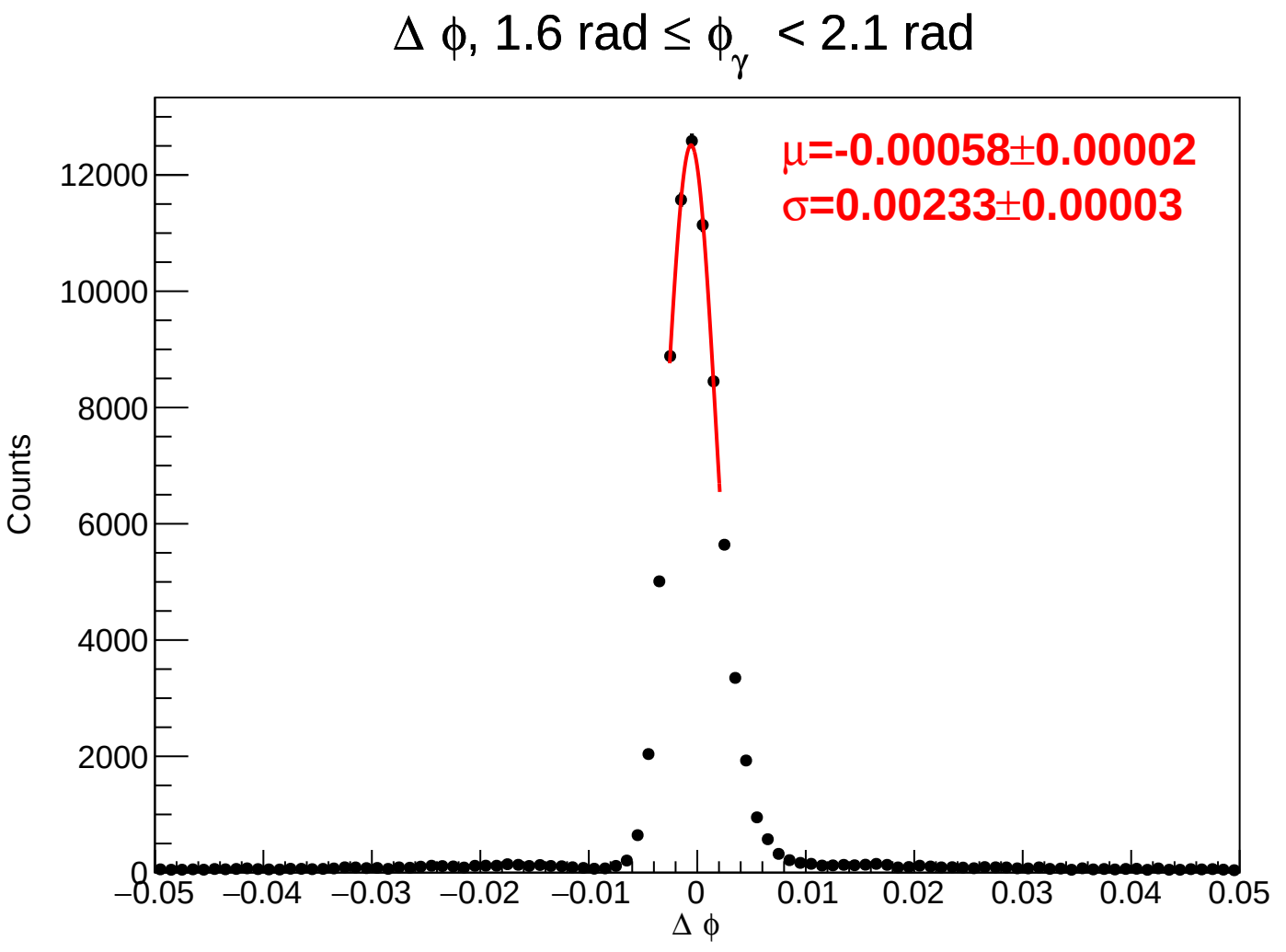

Δ ϕ, 0.5 rad ≤ ϕγ < 1.1 rad
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

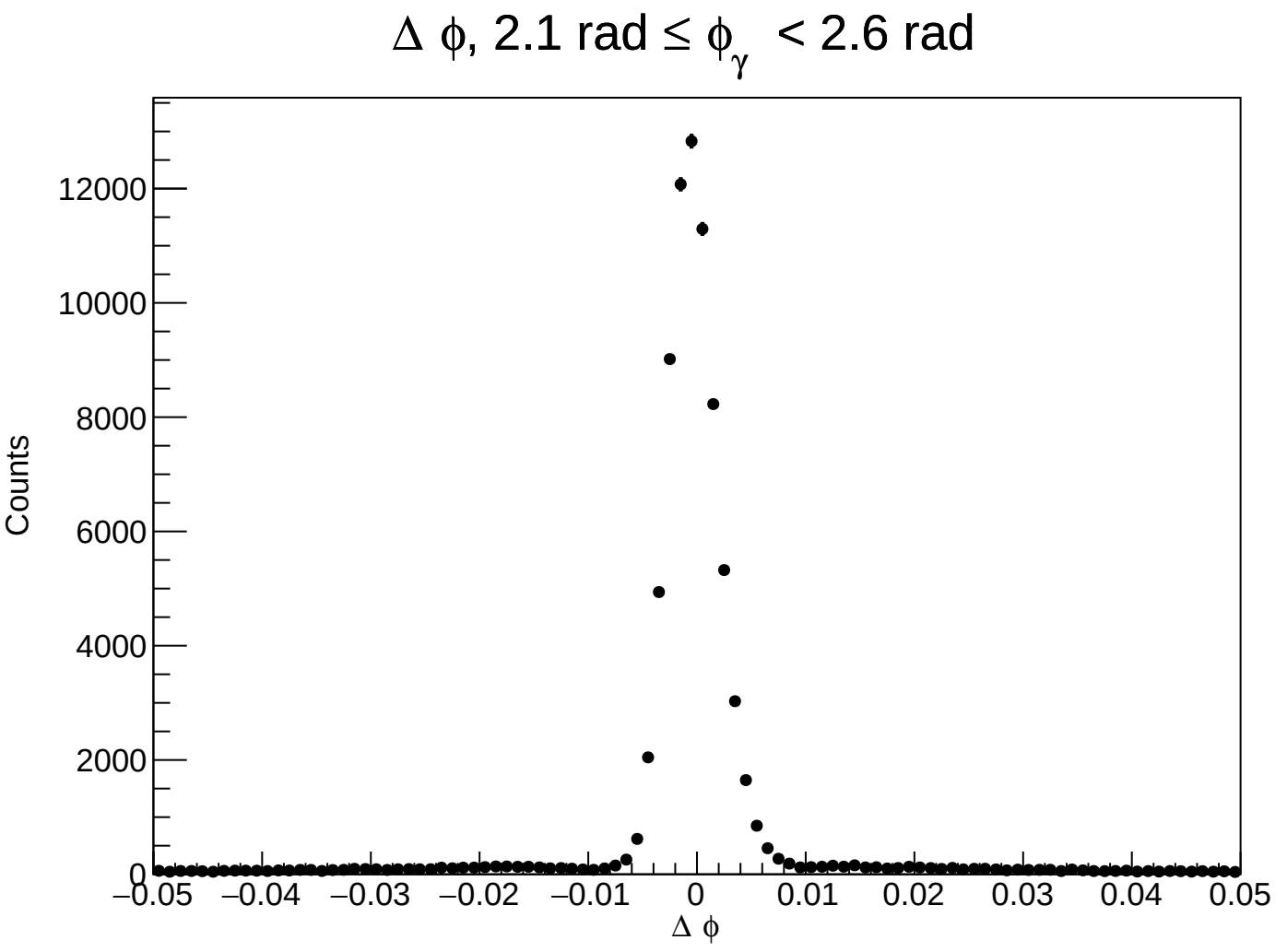

Δ ϕ, 0.5 rad ≤ ϕγ < 1.1 rad
μ=-0.00064±0.00002
σ=0.00231±0.00003
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

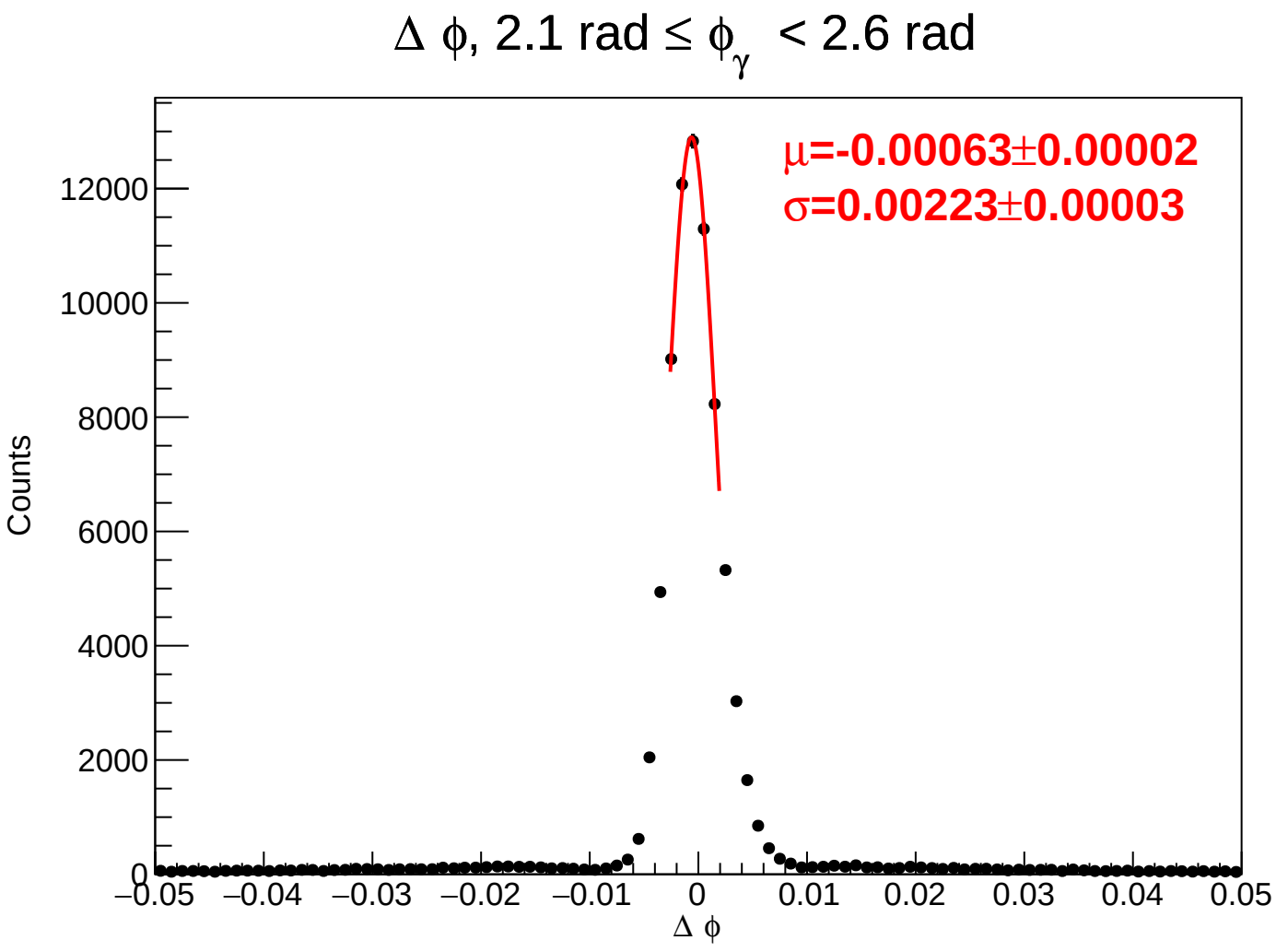

Δ ϕ, 1.1 rad ≤ ϕγ < 1.6 rad
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

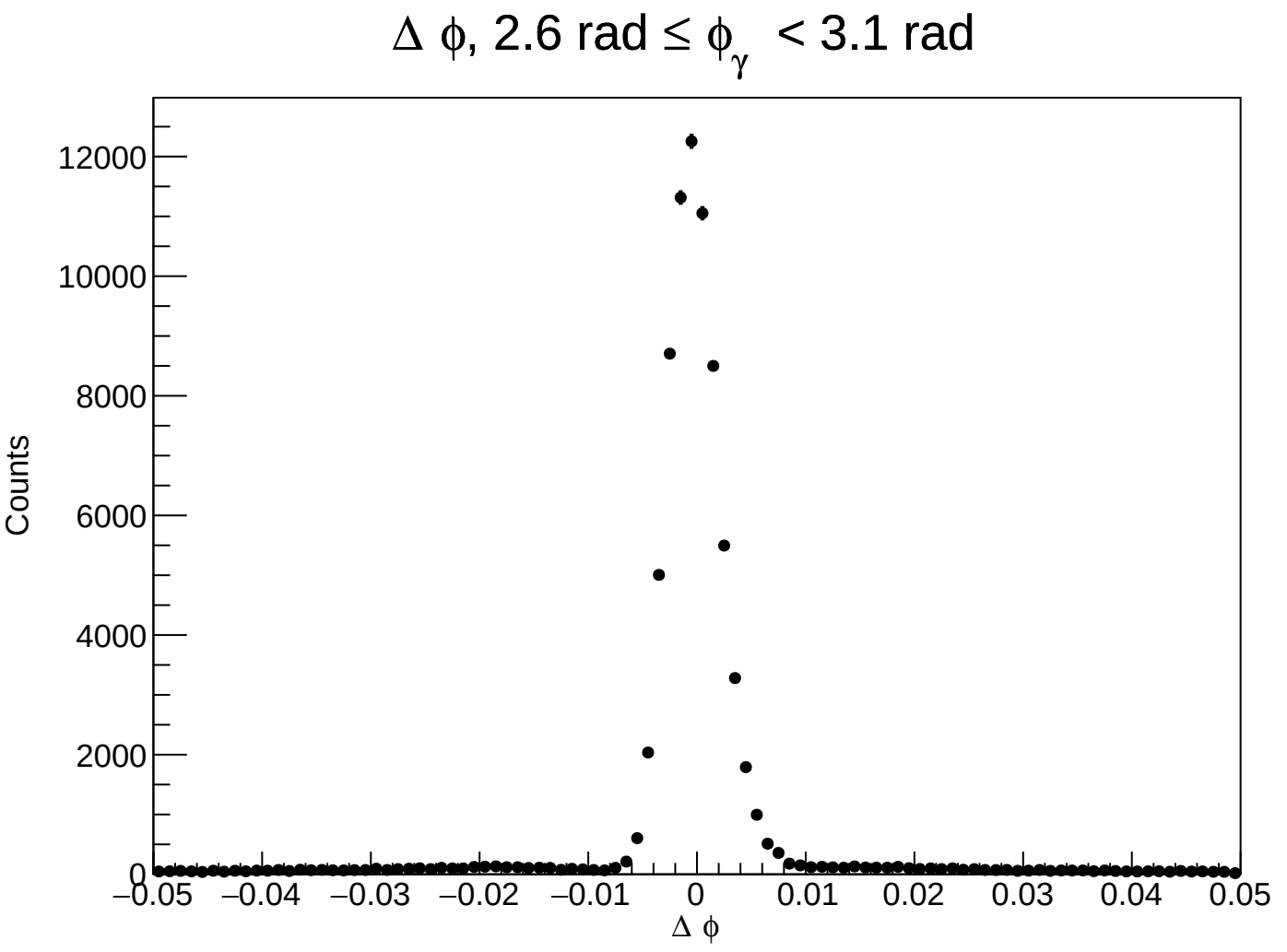

Δ ϕ, 1.1 rad ≤ ϕγ < 1.6 rad
μ=-0.00059±0.00002
σ=0.00236±0.00004
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

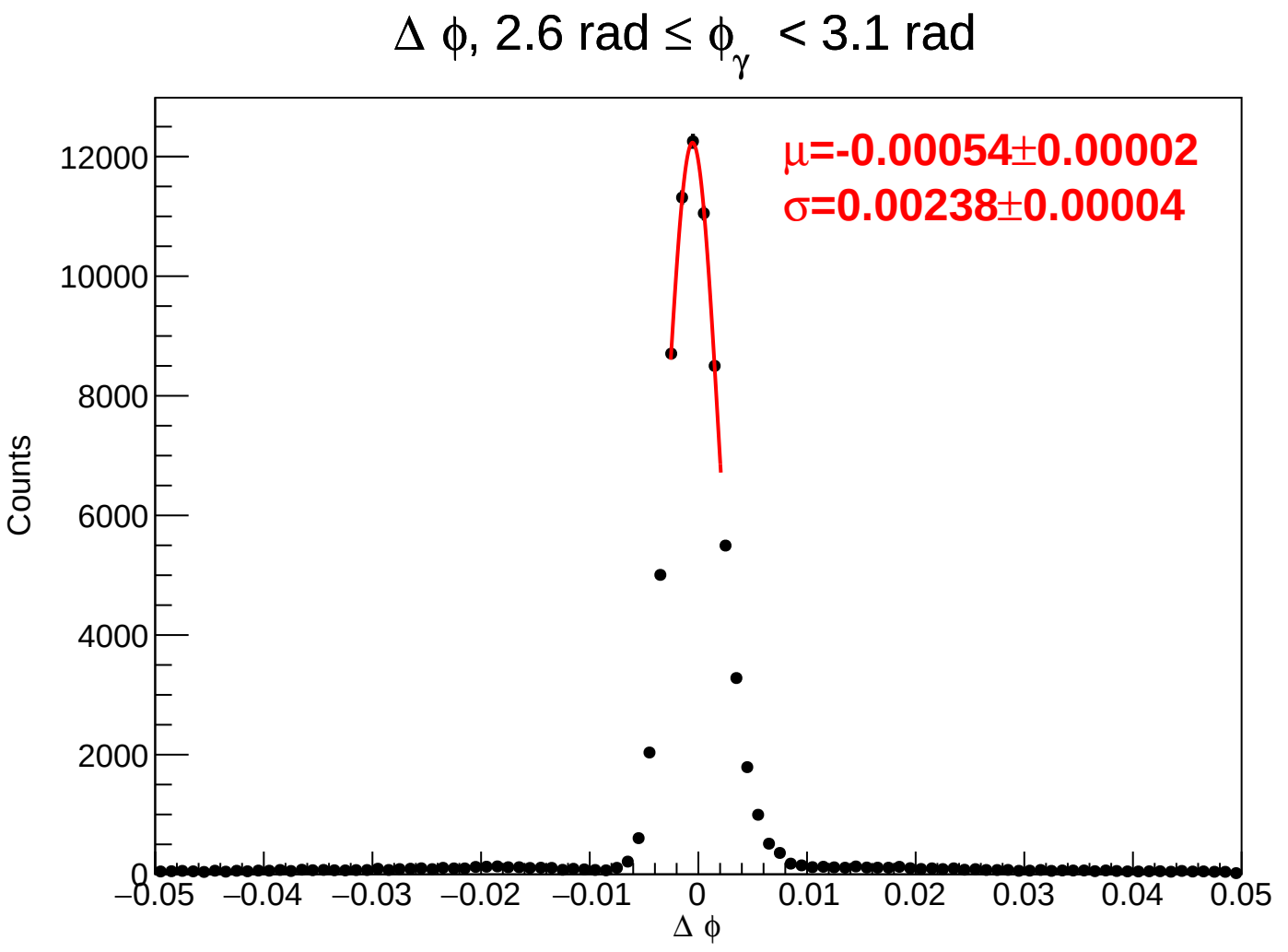

Δ ϕ, 1.6 rad ≤ ϕγ < 2.1 rad
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

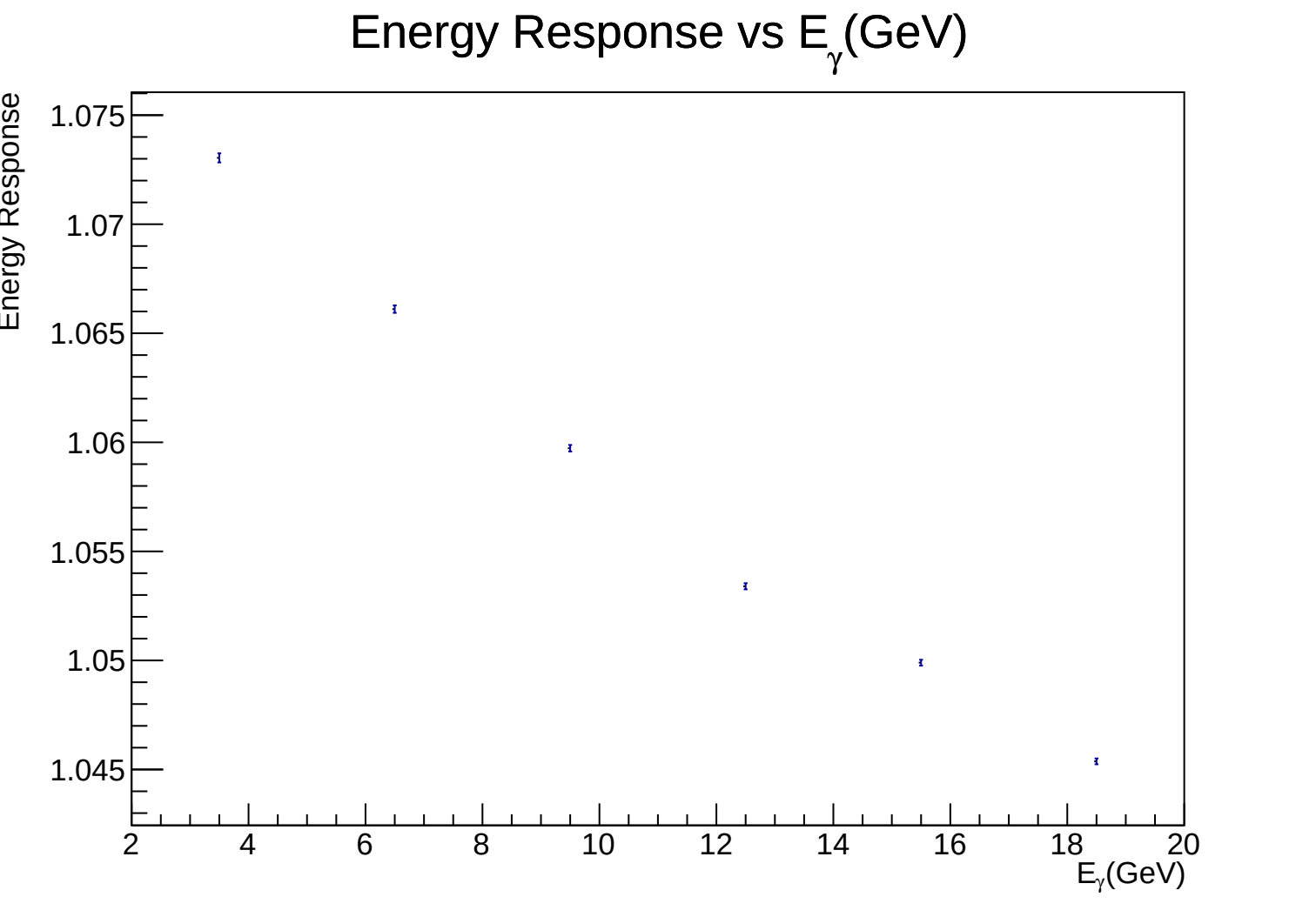

Δ ϕ, 1.6 rad ≤ ϕγ < 2.1 rad
μ=-0.00058±0.00002
σ=0.00233±0.00003
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ

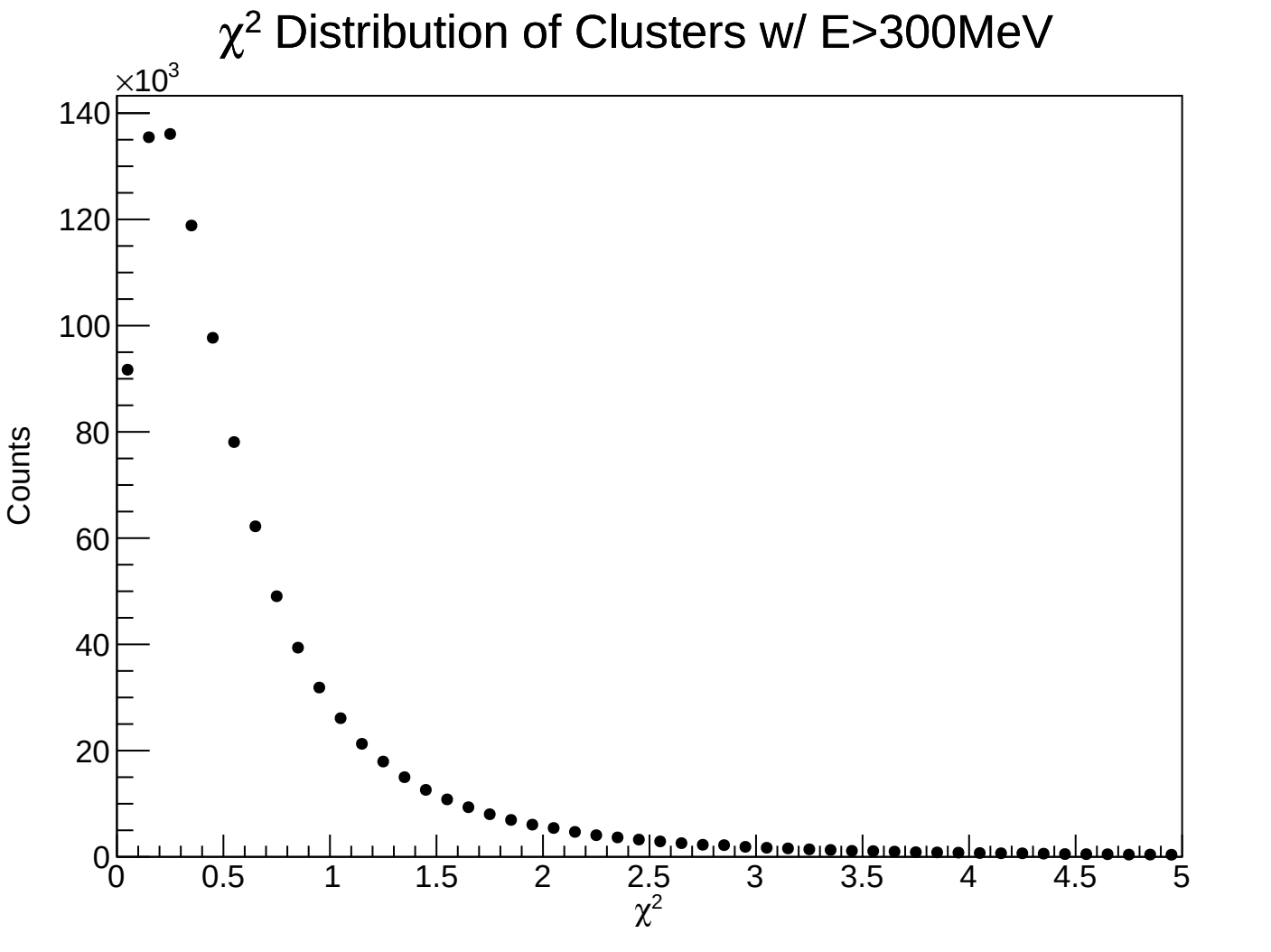

Δ ϕ, 2.1 rad ≤ ϕγ < 2.6 rad
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ


Δ ϕ, 2.1 rad ≤ ϕγ < 2.6 rad
μ=-0.00063±0.00002
σ=0.00223±0.00003
Counts
Δ ϕ
0
2000
4000
6000
8000
10000
12000
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05


Δ ϕ, 2.6 rad ≤ ϕγ < 3.1 rad
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ


Δ ϕ, 2.6 rad ≤ ϕγ < 3.1 rad
μ=-0.00054±0.00002
σ=0.00238±0.00004
Counts
12000
10000
8000
6000
4000
2000
0
–0.05
–0.04
–0.03
–0.02
–0.01
0
0.01
0.02
0.03
0.04
0.05
Δ ϕ


Energy Response vs E$_\gamma$(GeV)
Energy Response
1.075
1.07
1.065
1.06
1.055
1.05
1.045
2
4
6
8
10
12
14
16
18
20
E$_\gamma$(GeV)


χ^2 Distribution of Clusters w/ E>300MeV
$\times 10^3$
Counts
χ^2
0
20
40
60
80
100
120
140
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5