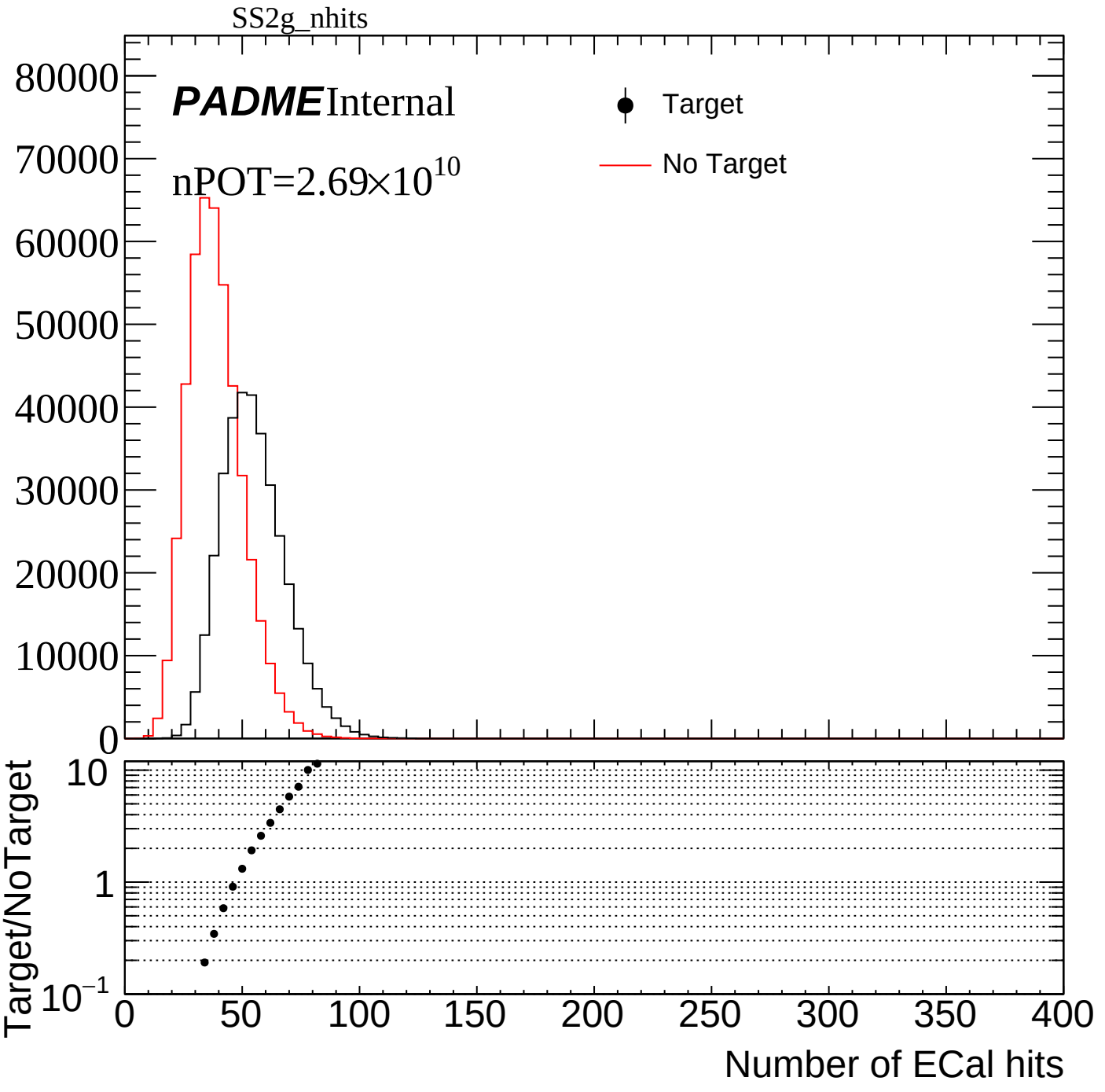
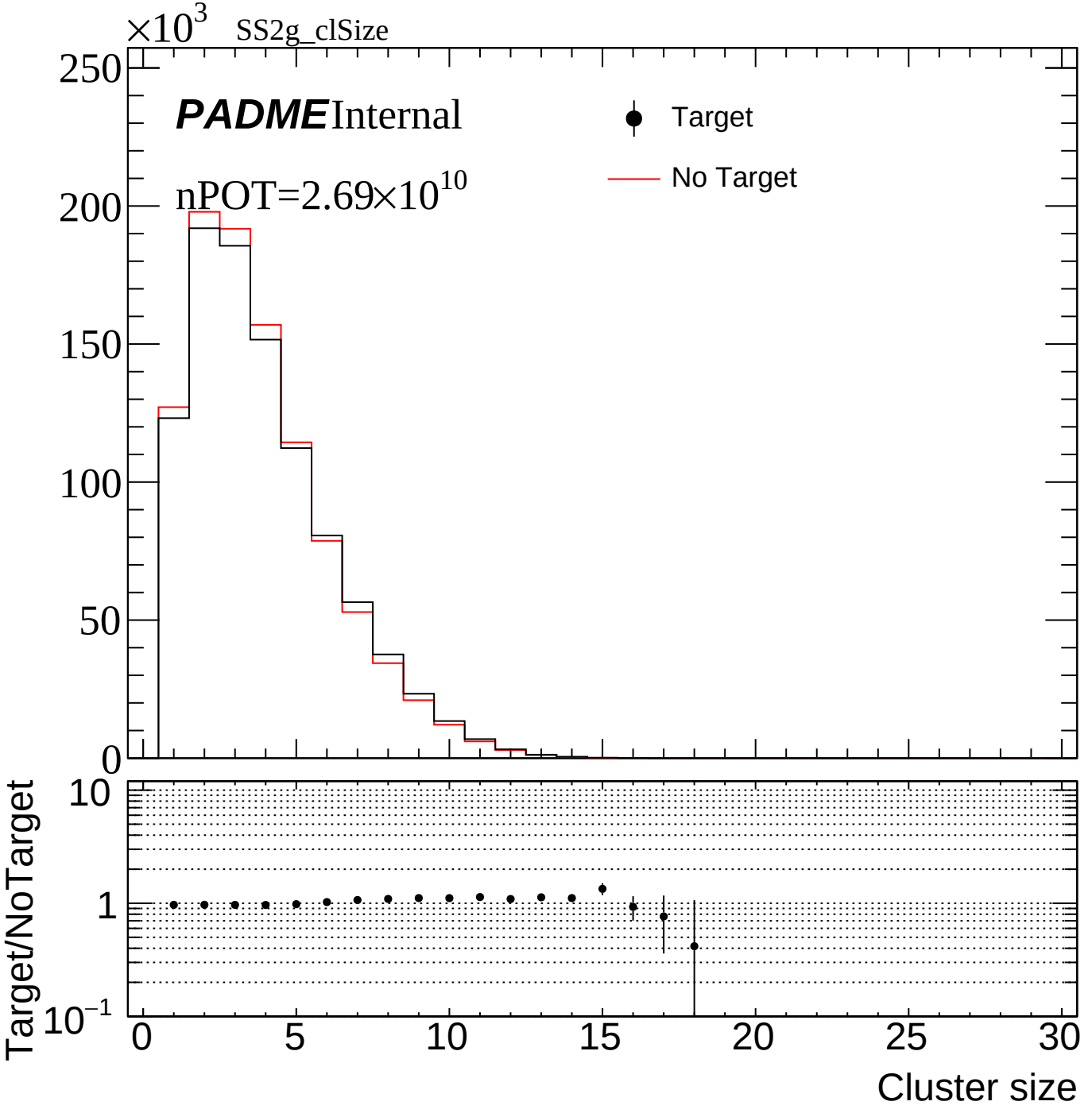
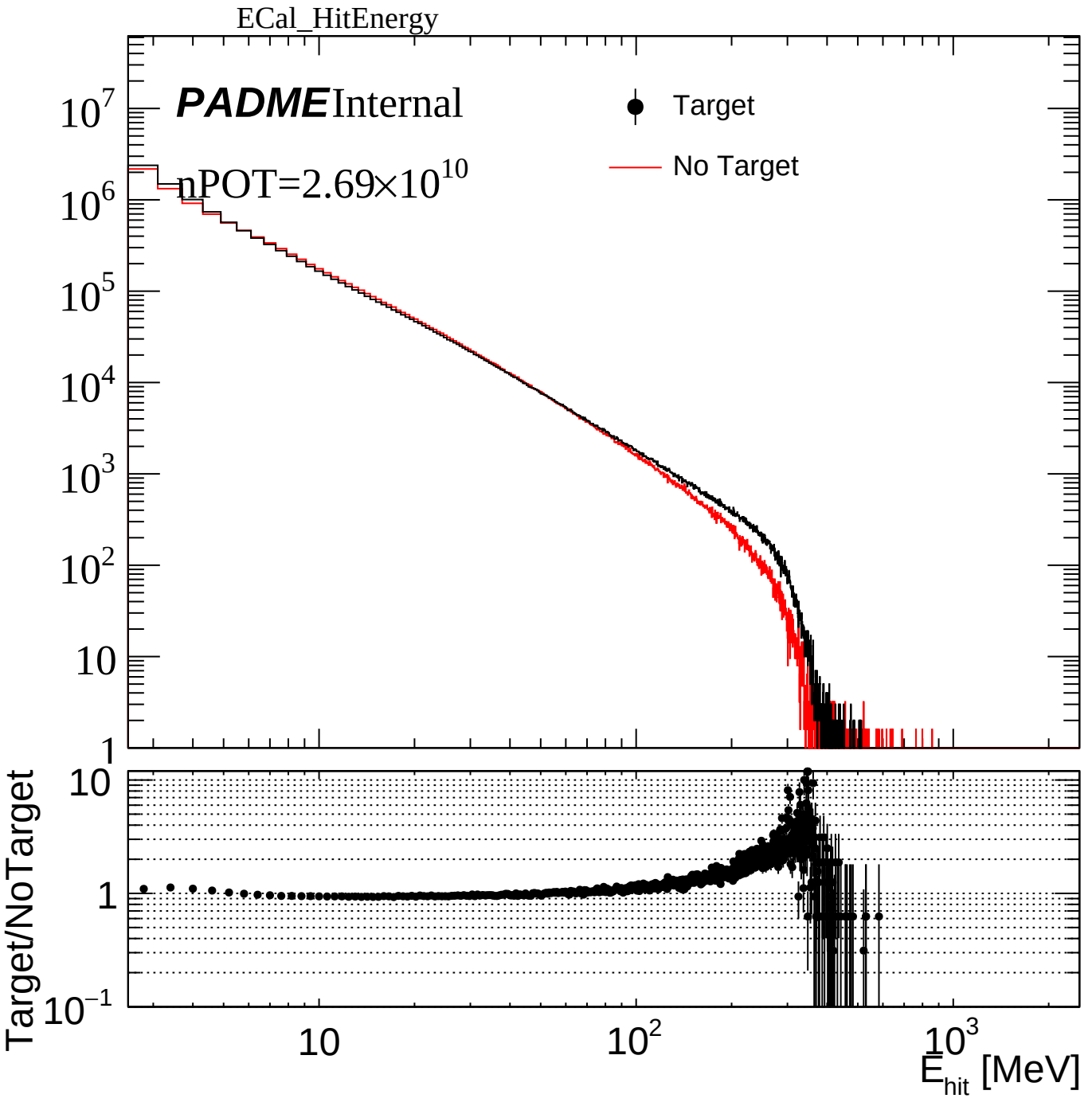
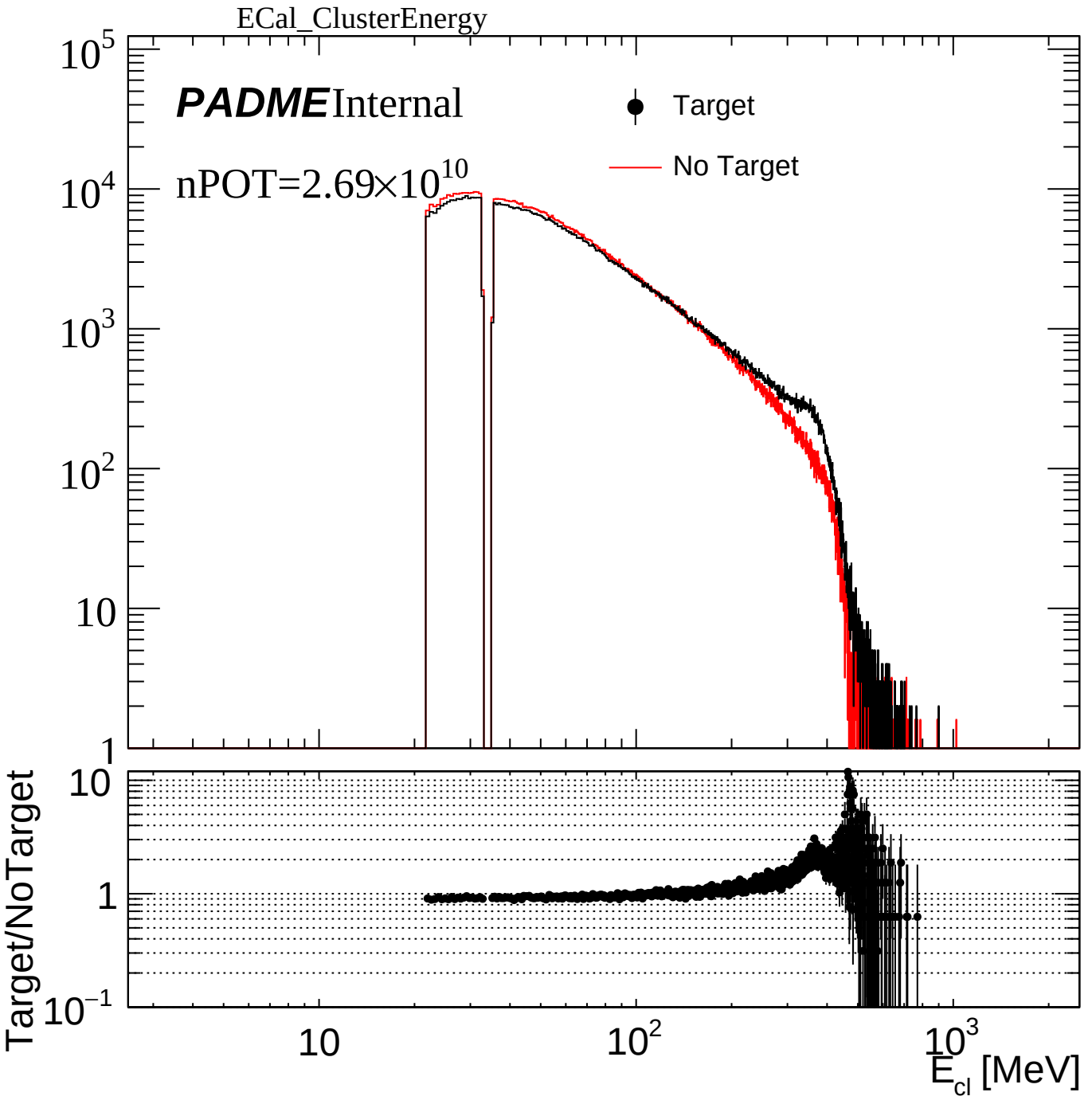
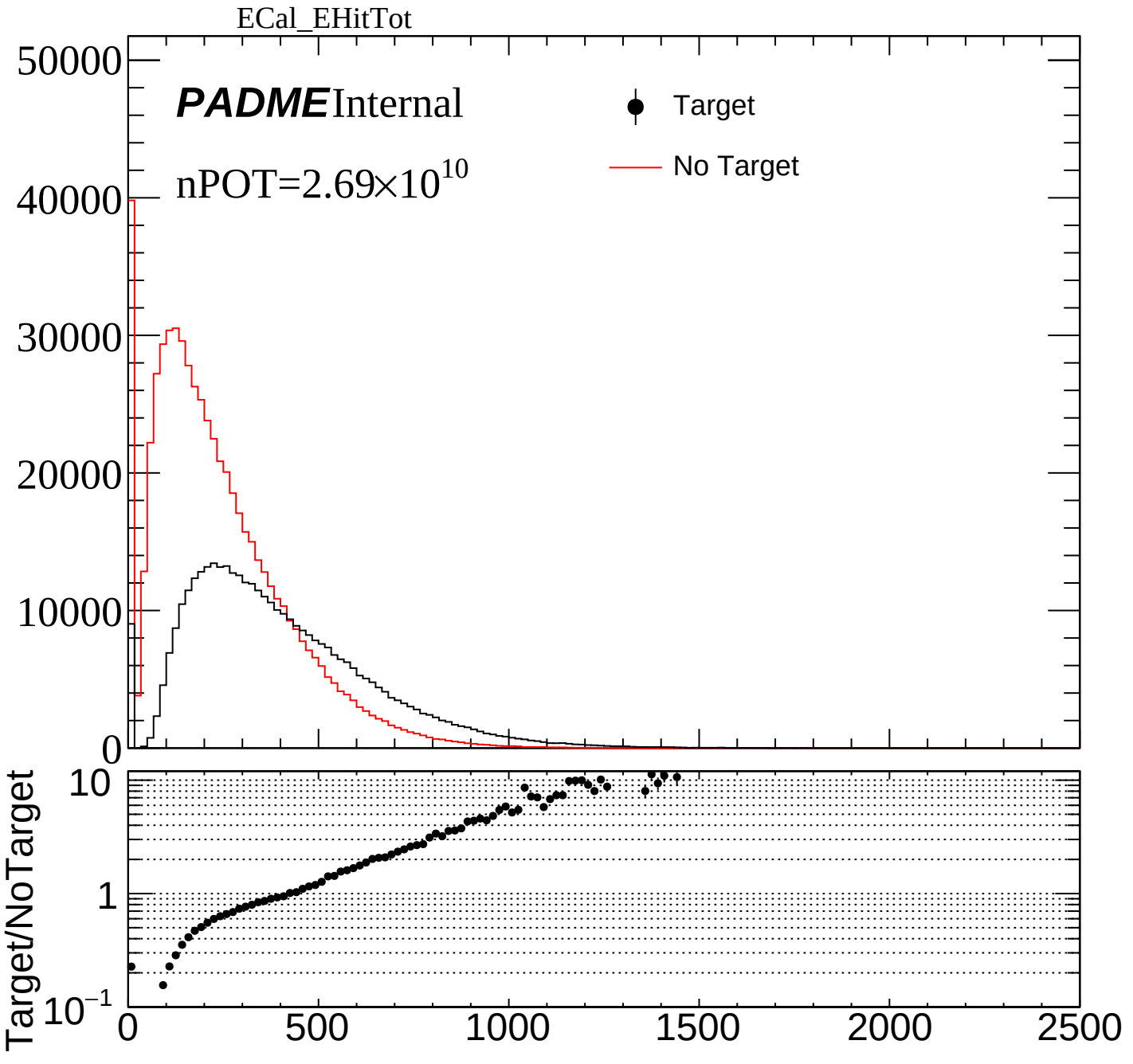
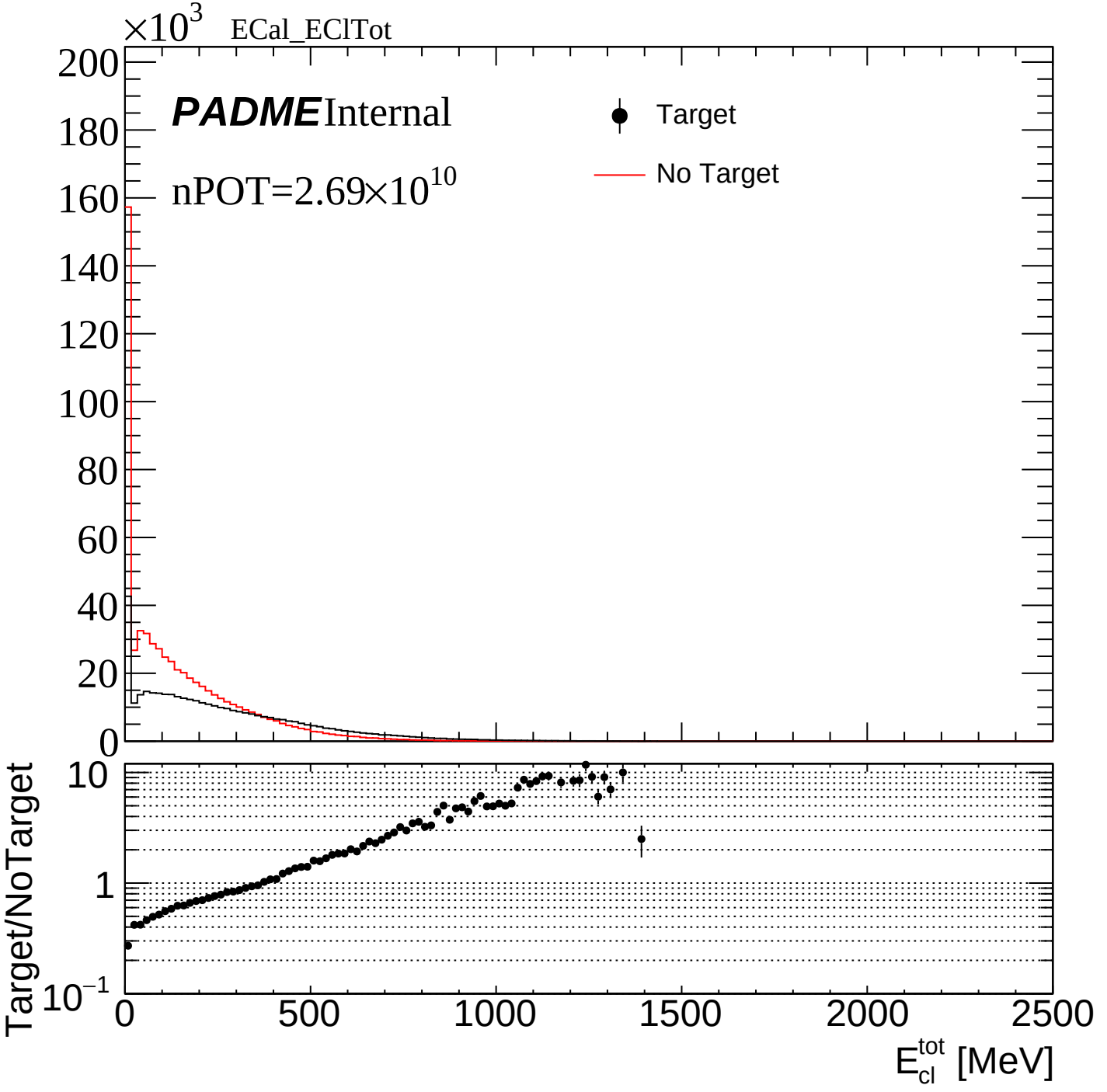

SS2g_nhits
PADME Internal
nPOT=2.69×10^10
Target
No Target
80000
70000
60000
50000
40000
30000
20000
10000
0
Target/NoTarget
10
1
10^−1
0
50
100
150
200
250
300
350
400
Number of ECal hits

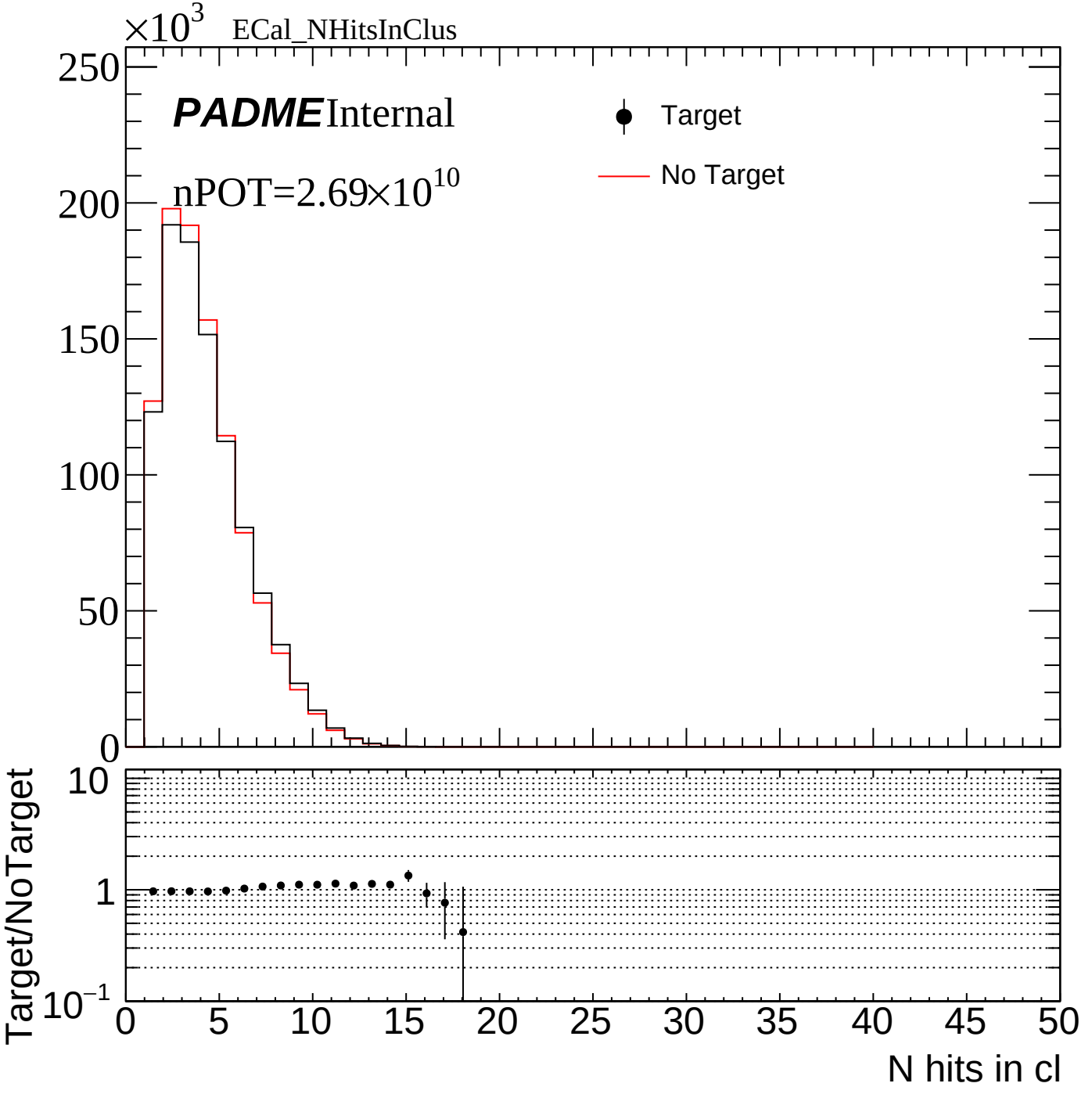

×10^3 SS2g_clSize
PADME Internal
nPOT=2.69×10^10
Target
No Target
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
5
10
15
20
25
30
Cluster size

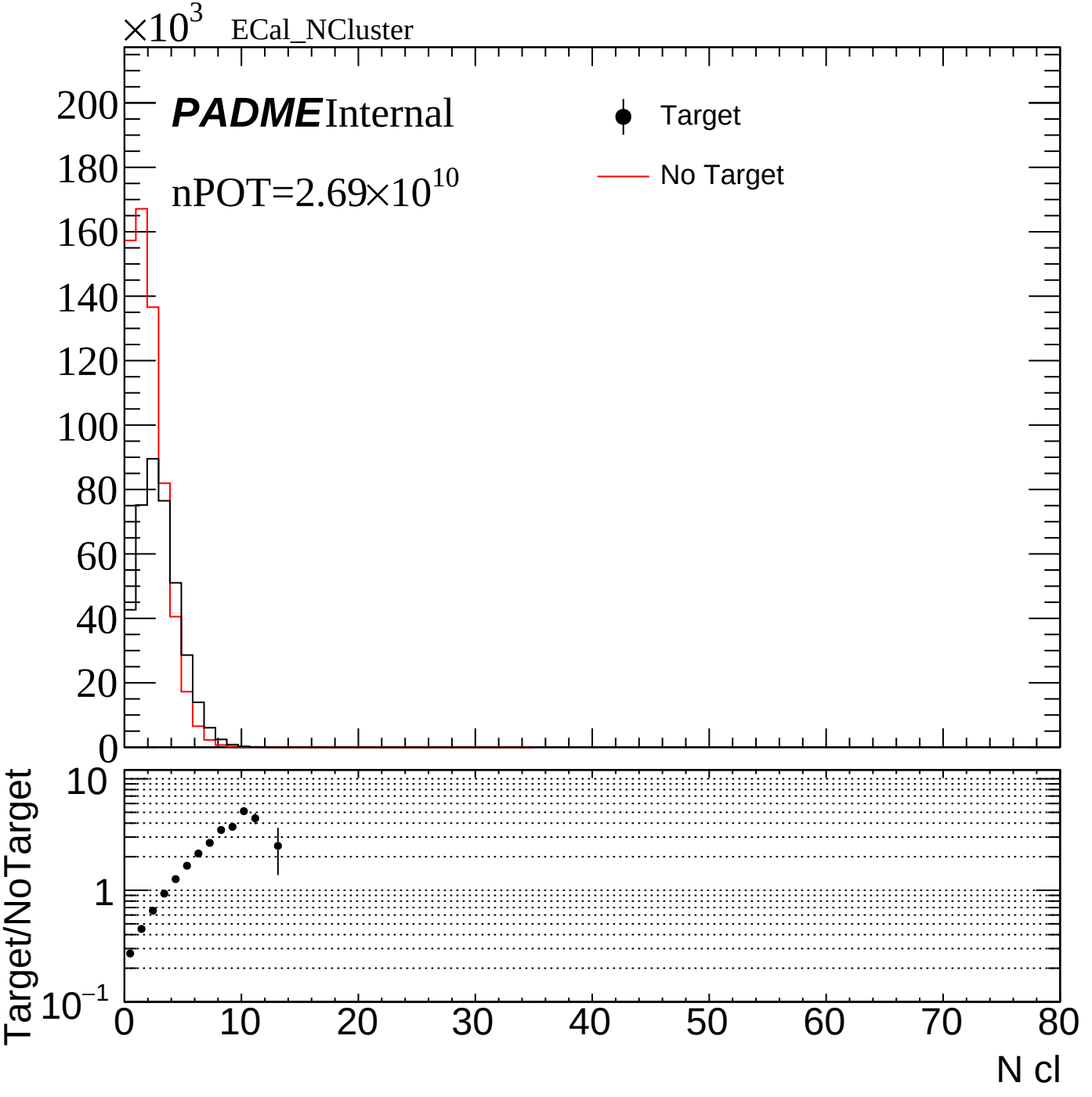

ECal_HitEnergy
PADME Internal
nPOT=2.69×10^10
Target
No Target
10^7
10^6
10^5
10^4
10^3
10^2
10
1
Target/NoTarget
10
1
10^−1
10
10^2
10^3
E_hit [MeV]

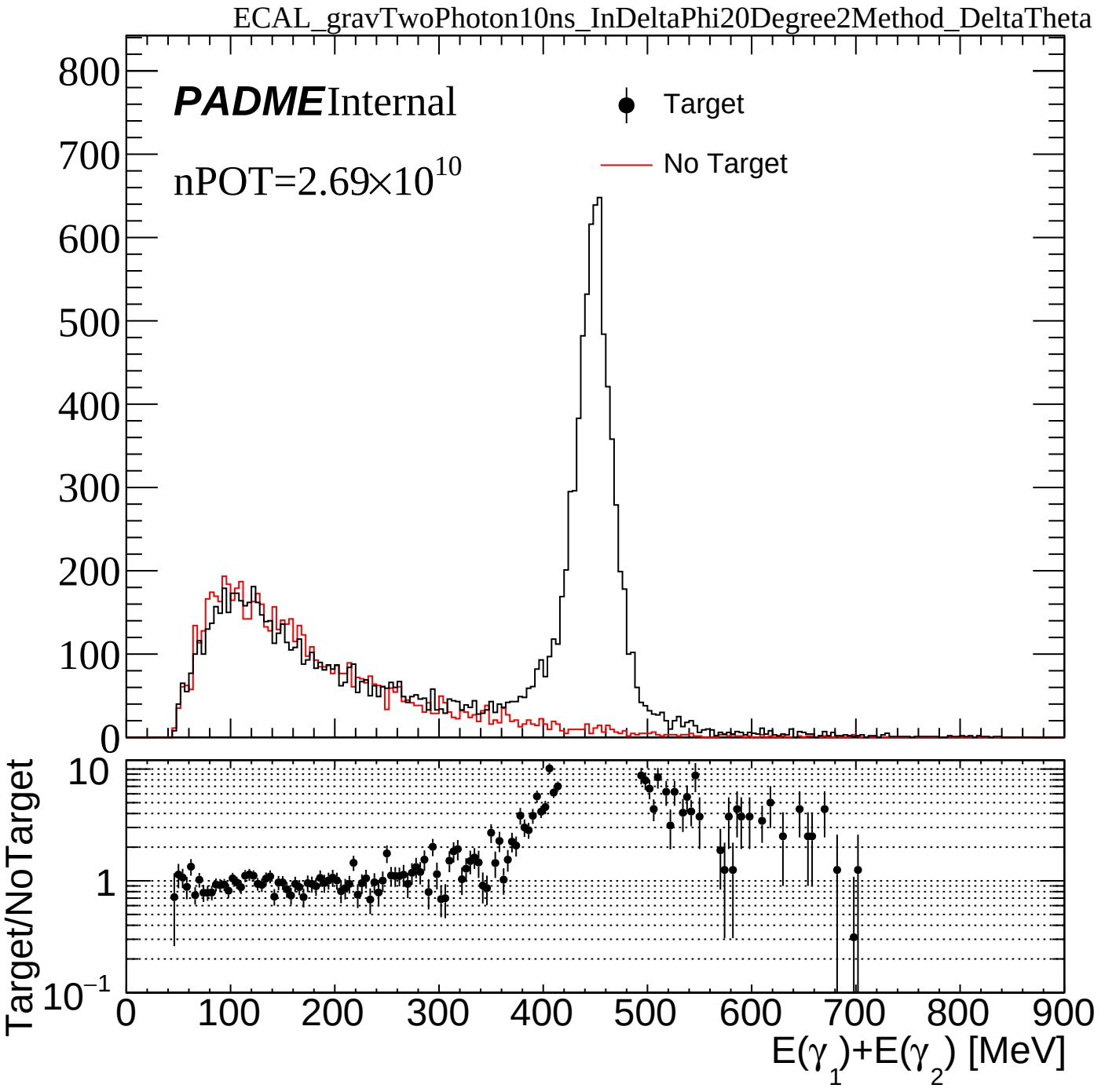

ECal_ClusterEnergy
PADME Internal
nPOT=2.69×10^10
Target
No Target
Target/NoTarget
E_cl [MeV]

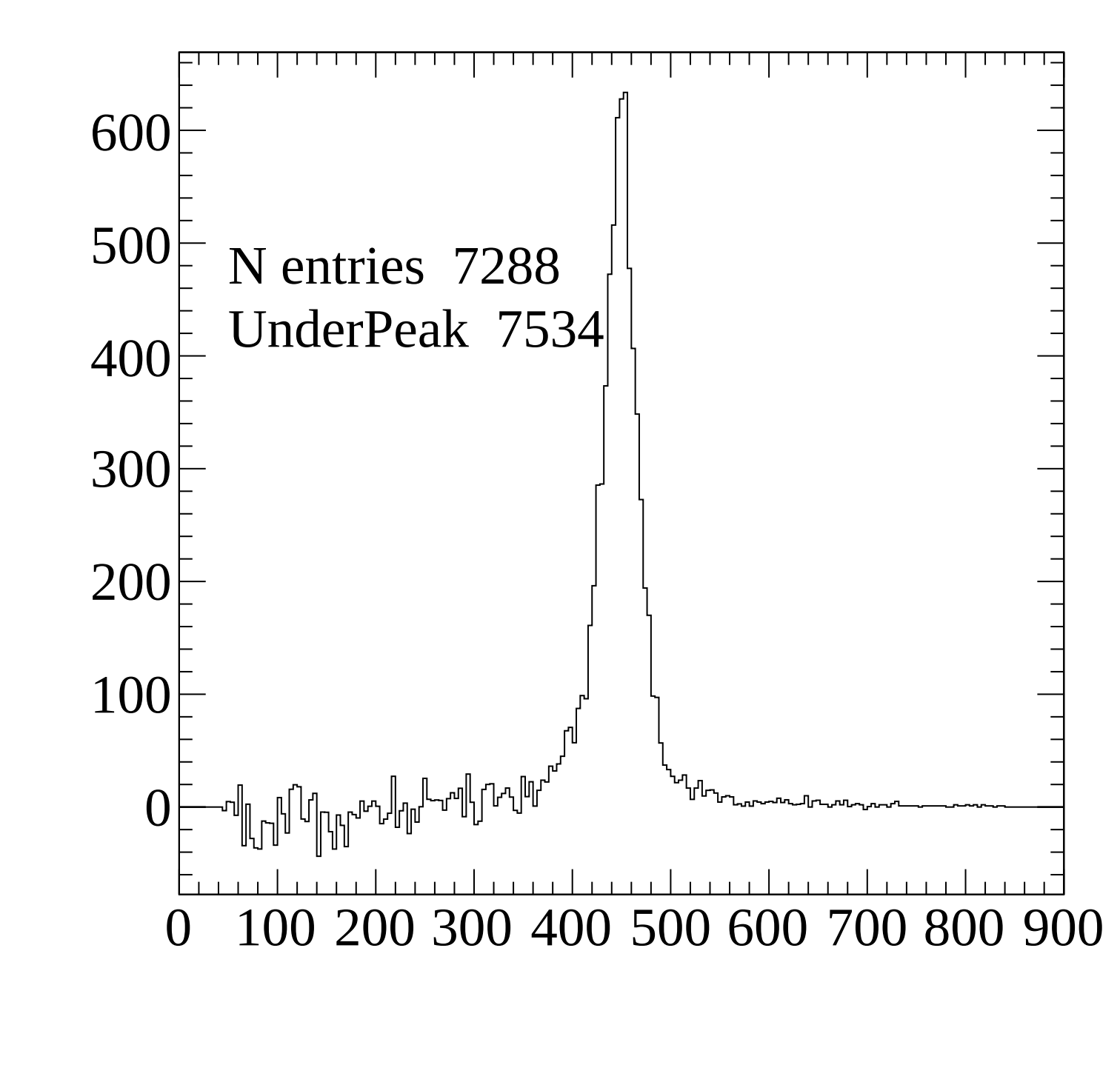

ECal_EHitTot
PADME Internal
nPOT=2.69×10^10
Target
No Target
50000
40000
30000
20000
10000
0
Target/NoTarget
10
1
10^−1
0
500
1000
1500
2000
2500

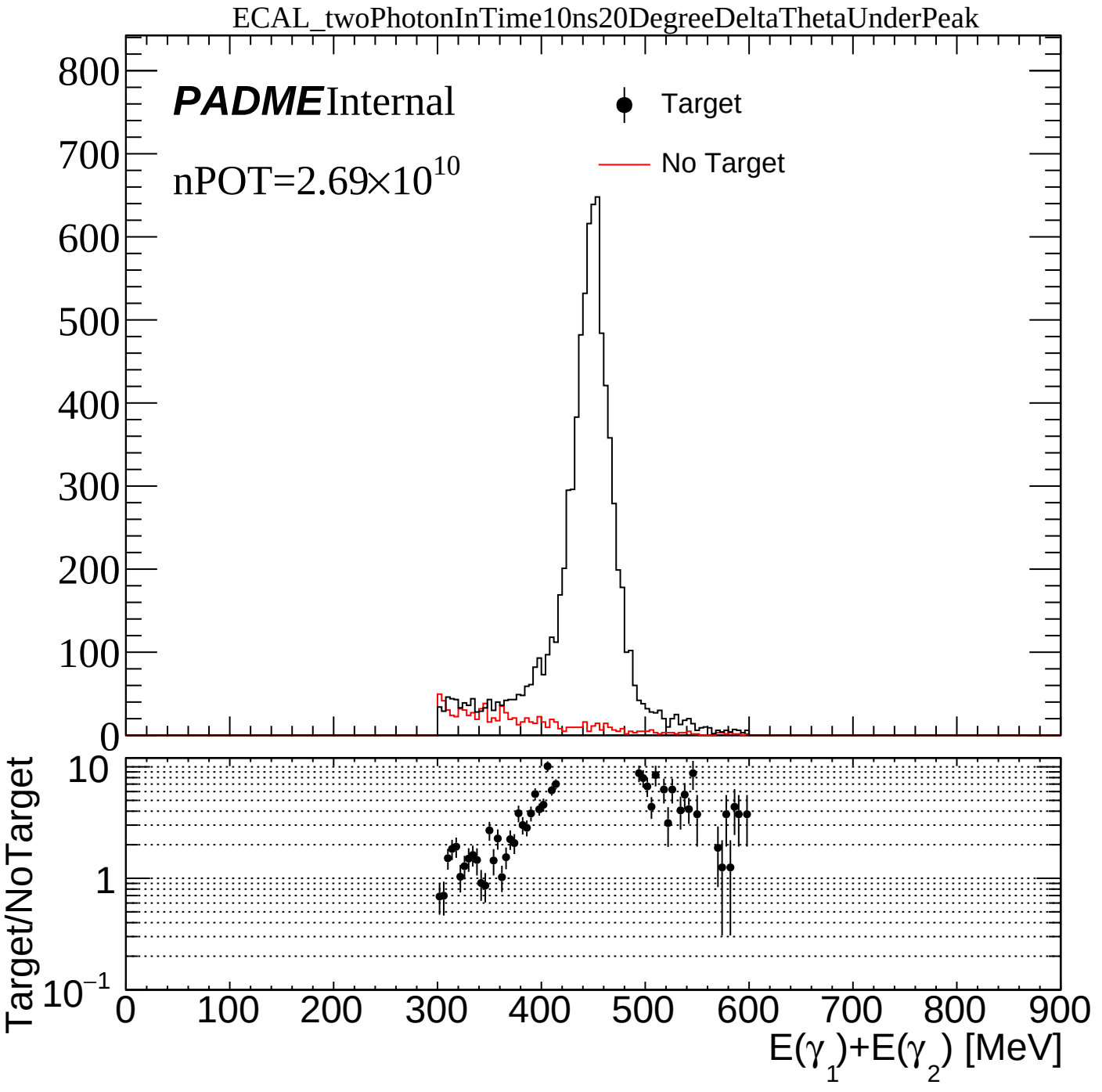

×10^3 ECal_EClTot
PADME Internal
nPOT=2.69×10^10
Target
No Target
200
180
160
140
120
100
80
60
40
20
0
Target/NoTarget
10
1
10^−1
0
500
1000
1500
2000
2500
E_cl^tot [MeV]

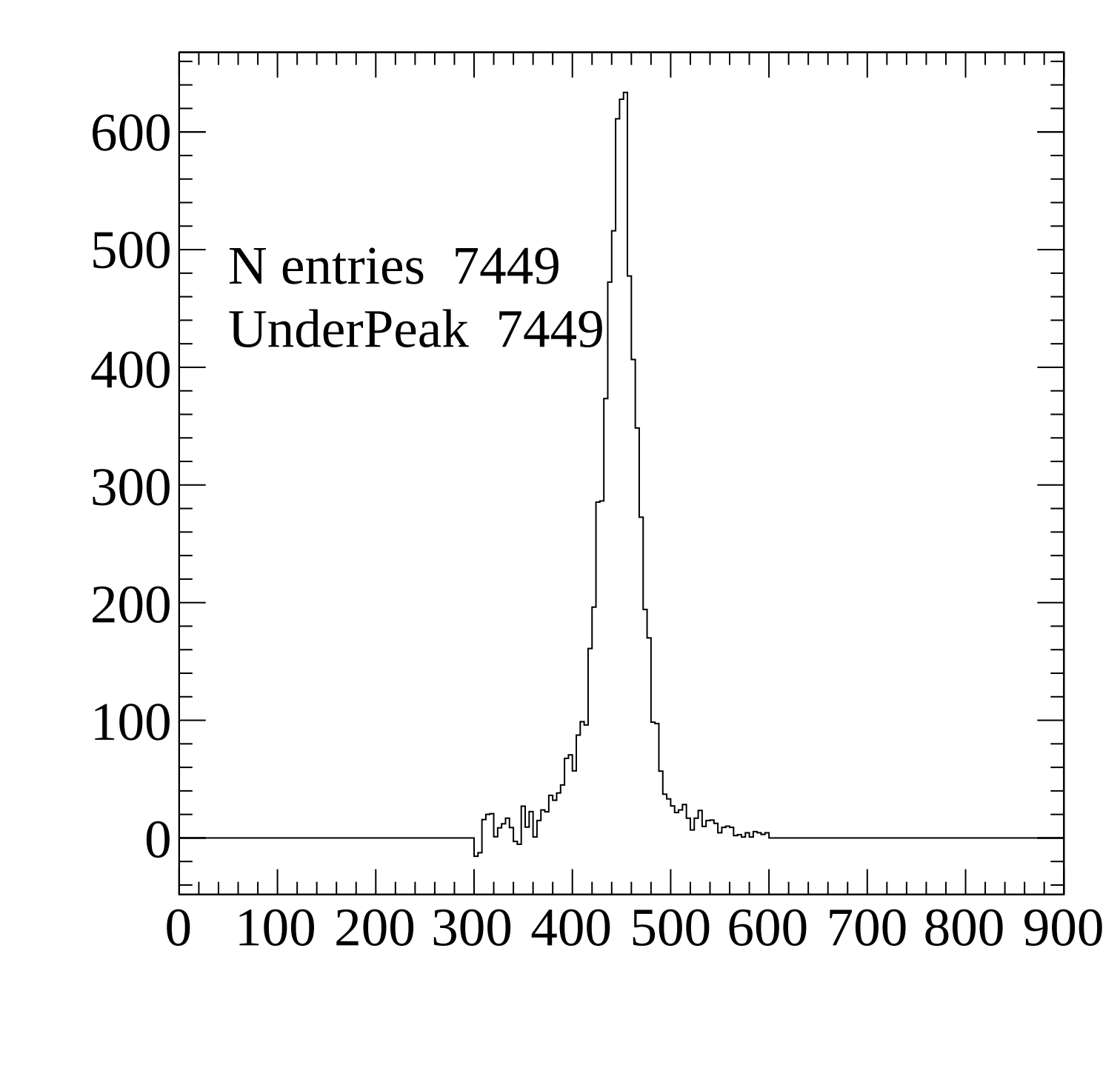

×10^3
ECal_NHitsInClus
PADME Internal
nPOT=2.69×10^10
Target
No Target
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
5
10
15
20
25
30
35
40
45
50
N hits in cl

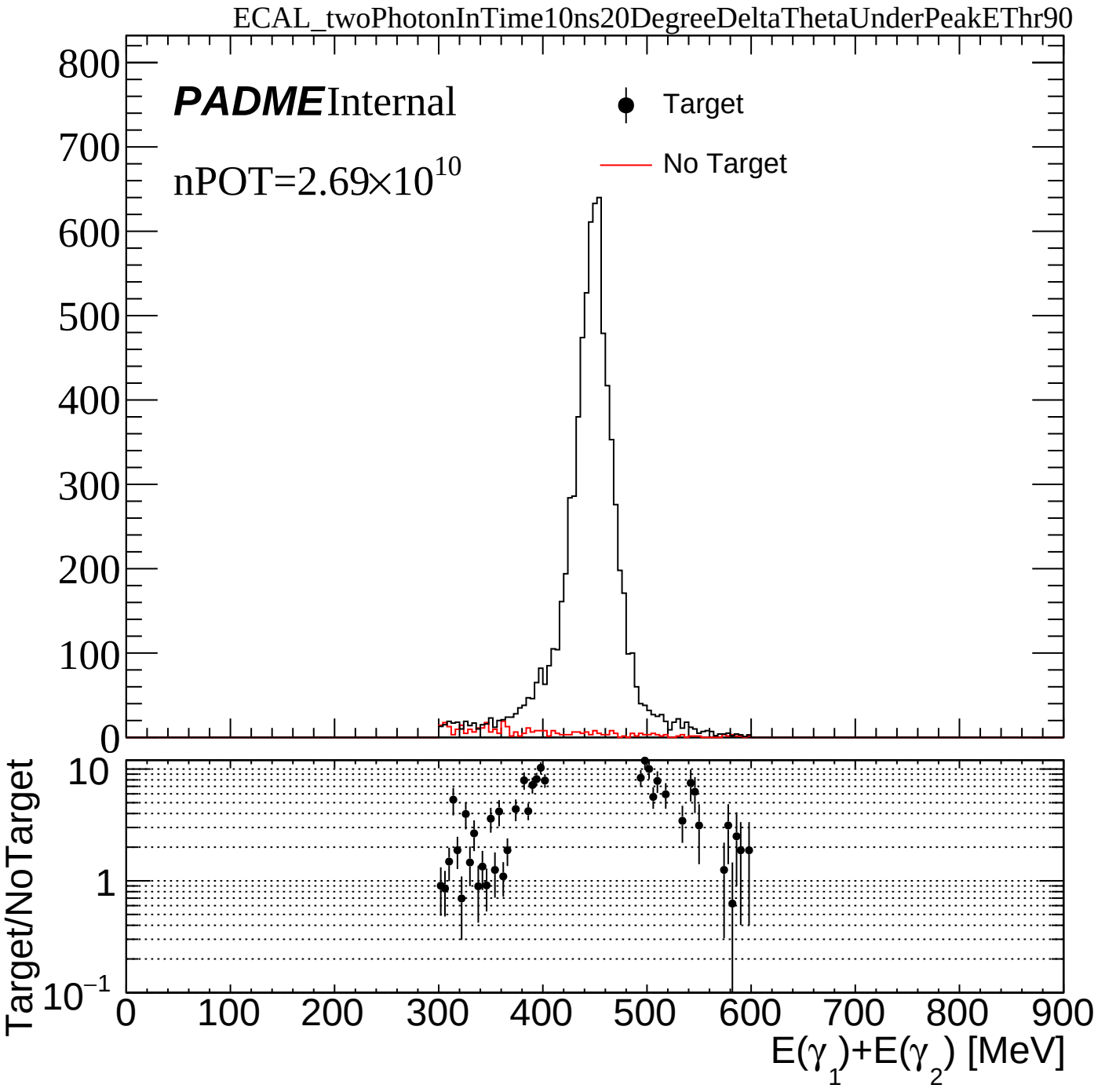

×10^3 ECal_NCluster
PADME Internal
nPOT=2.69×10^10
Target
No Target
200
180
160
140
120
100
80
60
40
20
0
Target/NoTarget
10
1
10^−1
0
10
20
30
40
50
60
70
80
N cl

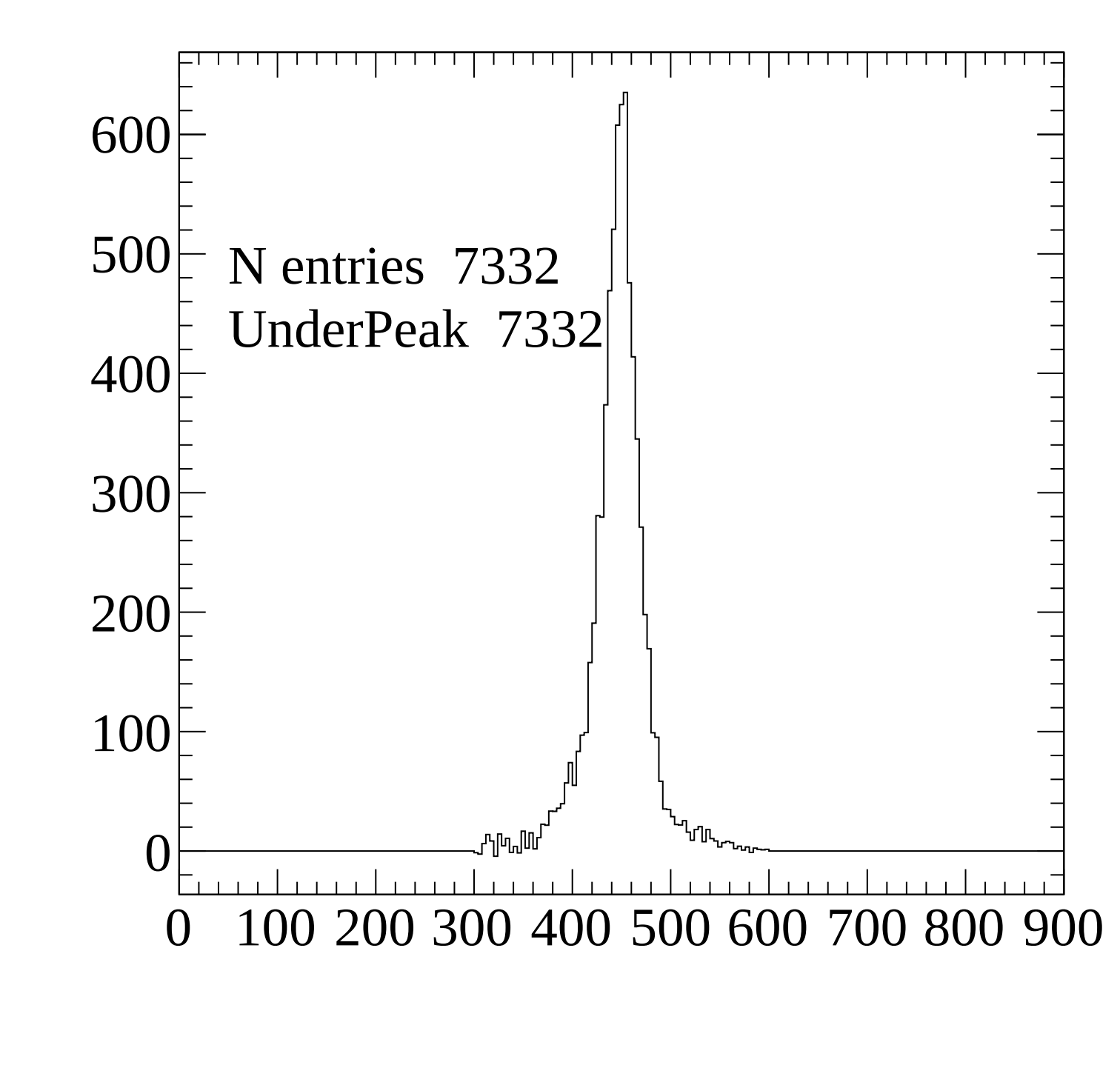

ECAL_gravTwoPhoton10ns_InDeltaPhi20Degree2Method_DeltaTheta
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

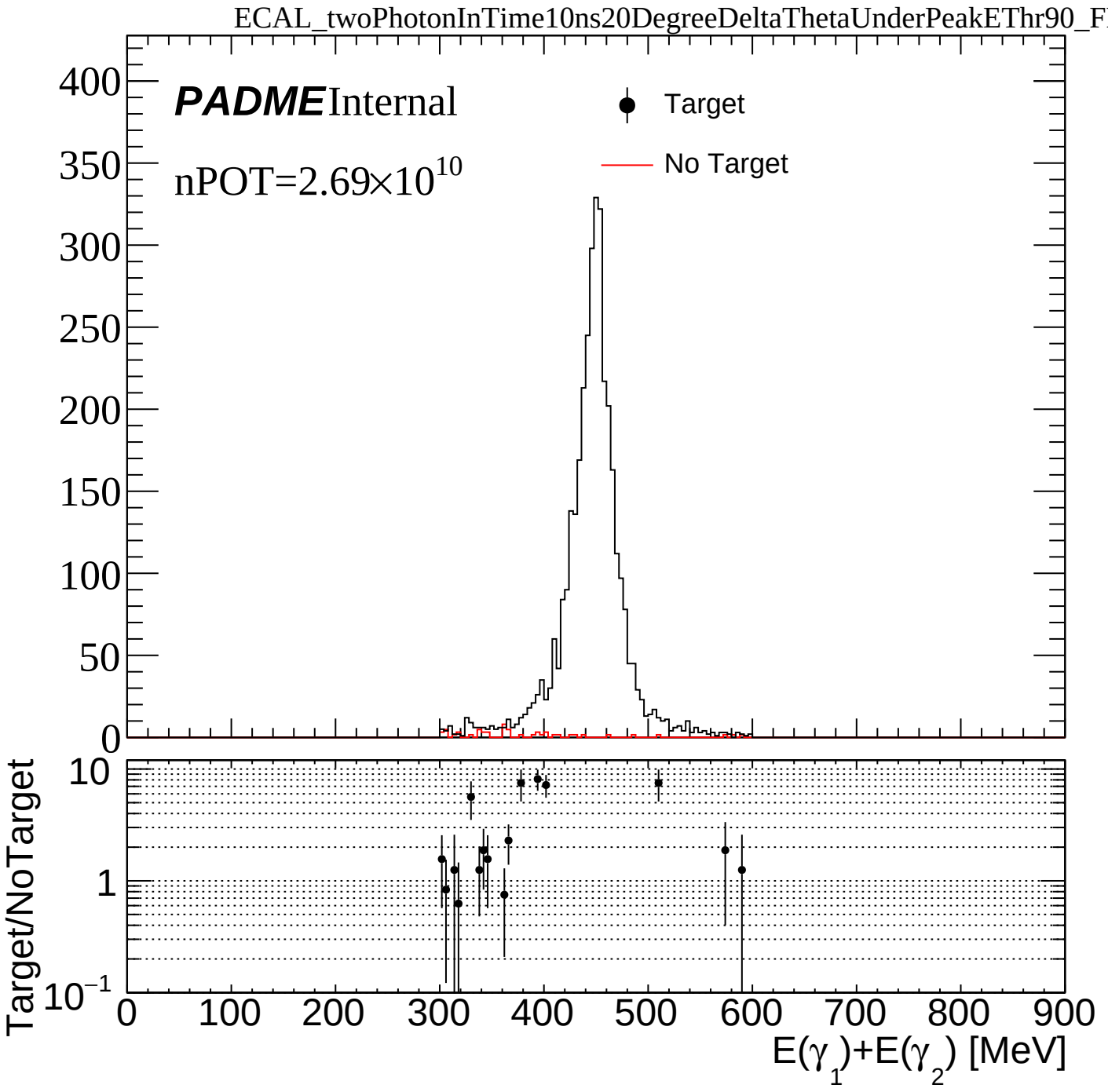

N entries 7288
UnderPeak 7534
600
500
400
300
200
100
0
0
100
200
300
400
500
600
700
800
900

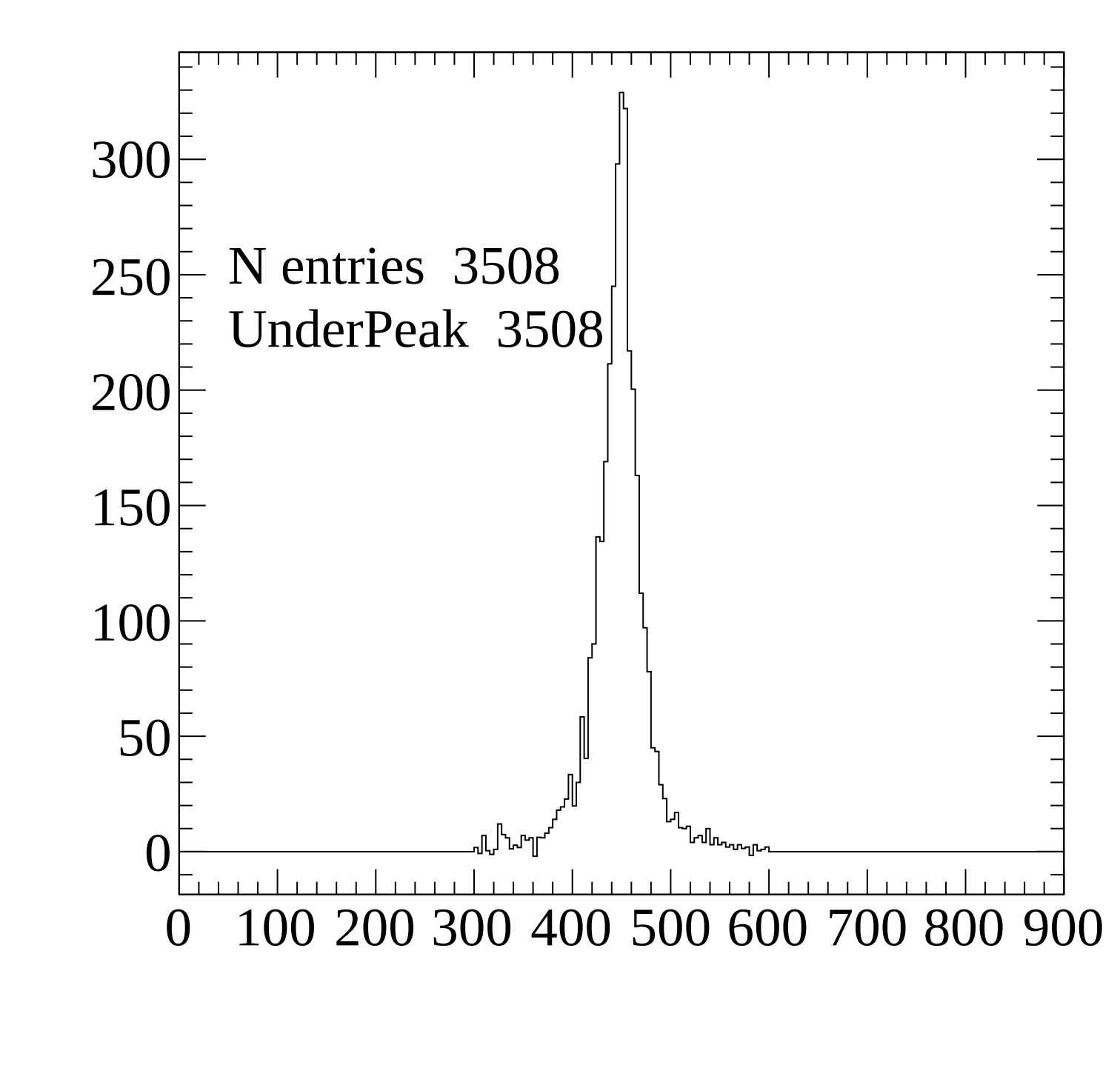

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaUnderPeak
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
Target/NoTarget
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

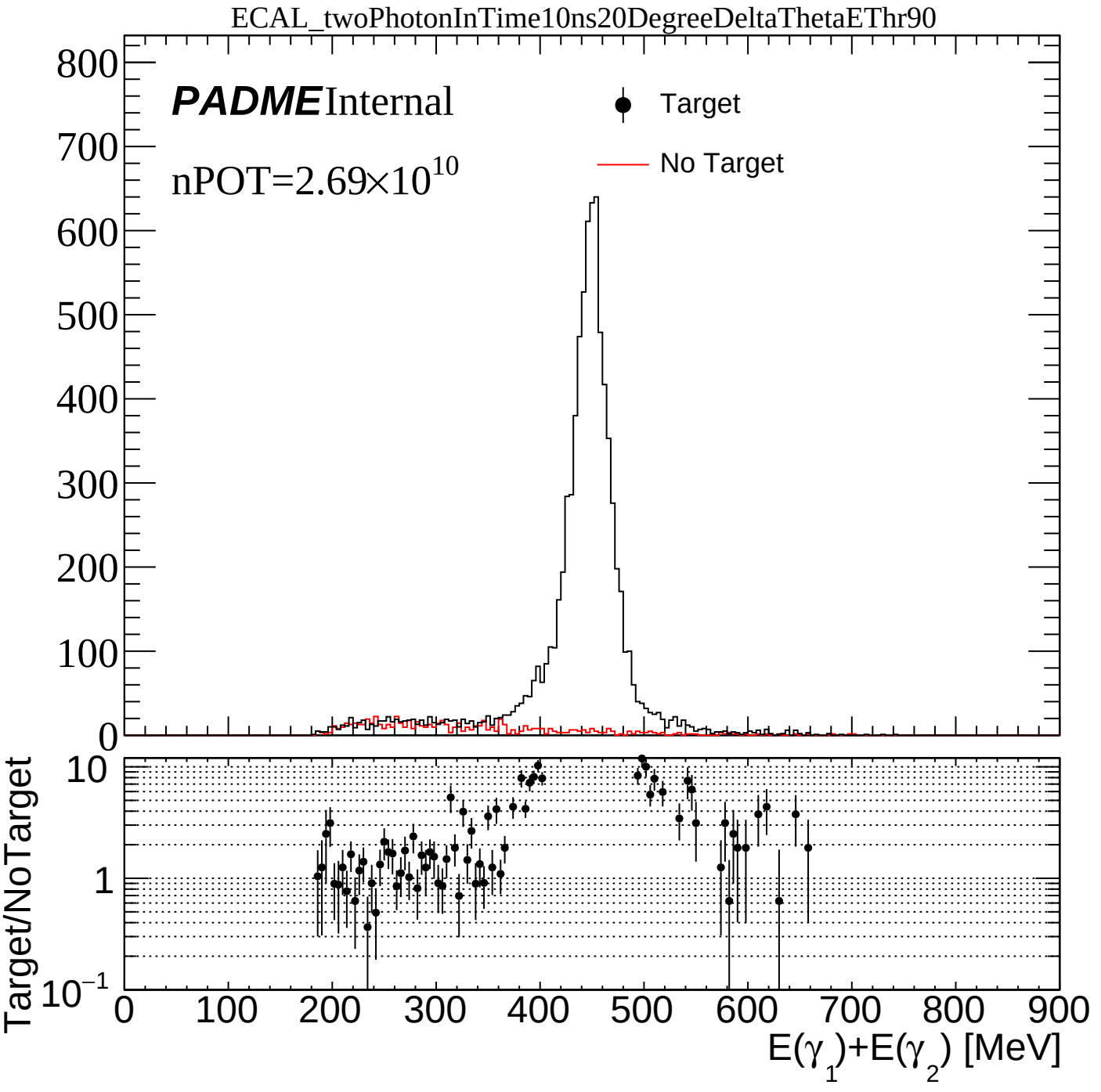

N entries 7449
UnderPeak 7449
600
500
400
300
200
100
0
0 100 200 300 400 500 600 700 800 900

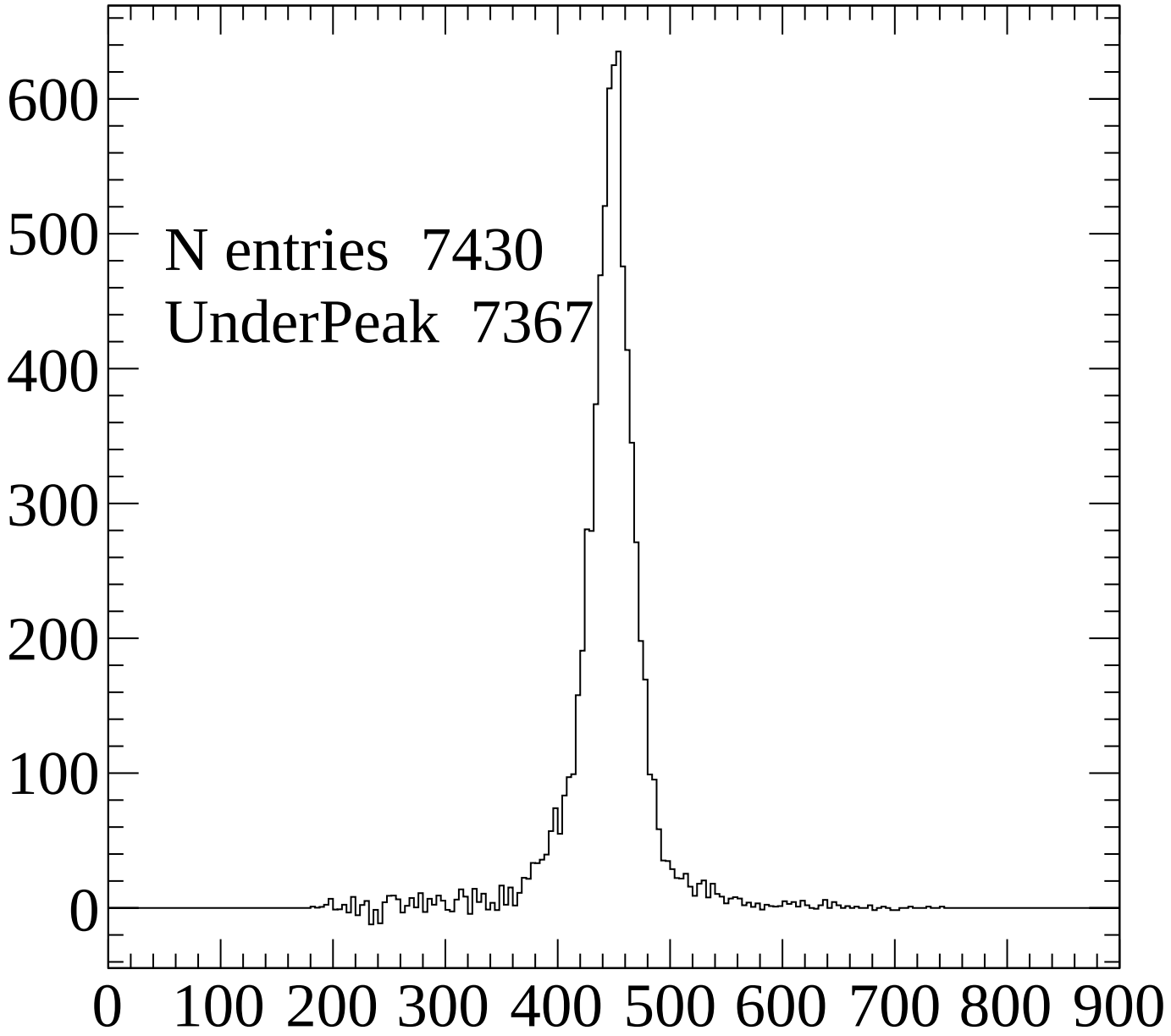

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaUnderPeakEThr90
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
Target/NoTarget
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

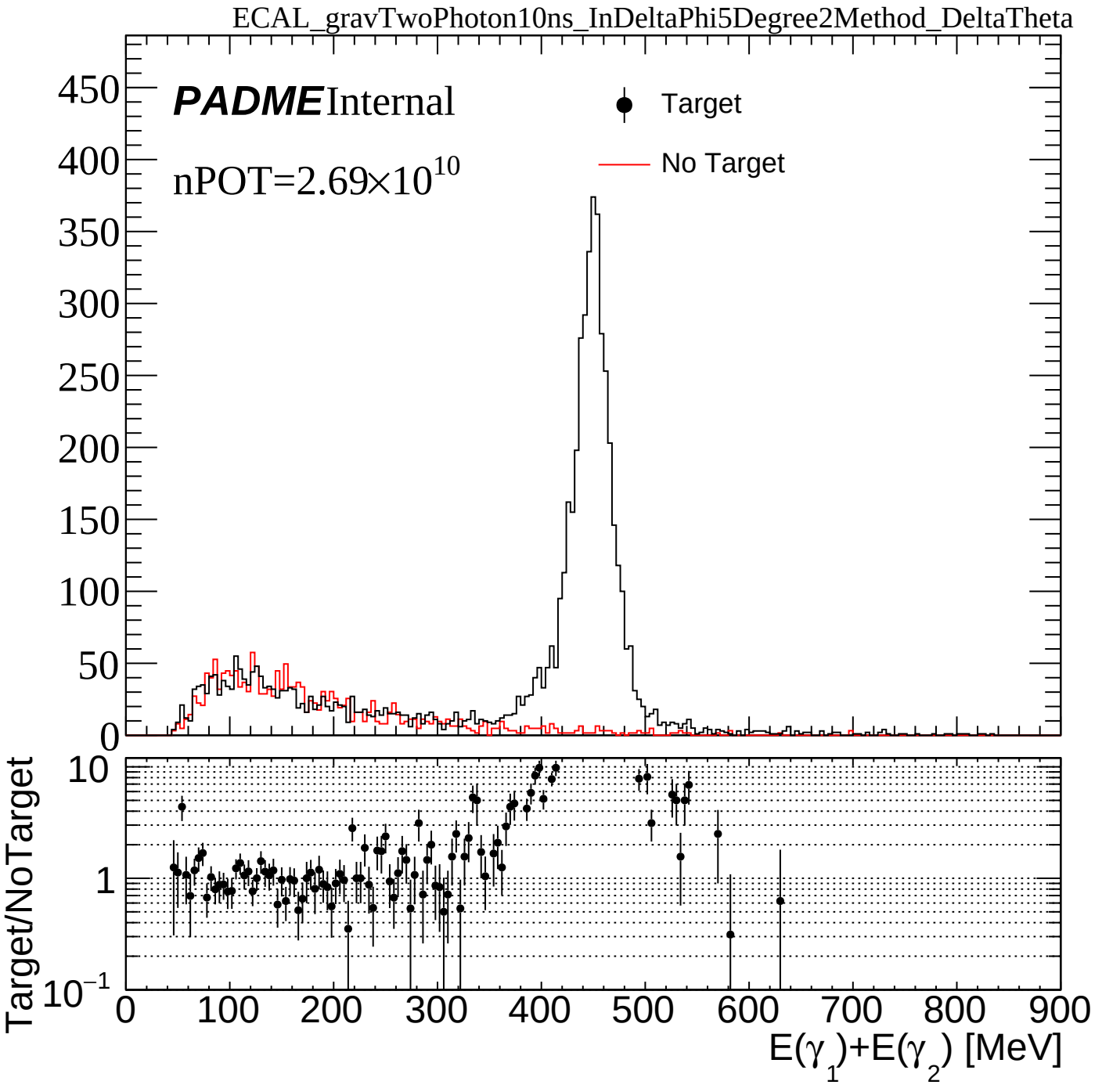

N entries 7332
UnderPeak 7332
600
500
400
300
200
100
0
0 100 200 300 400 500 600 700 800 900

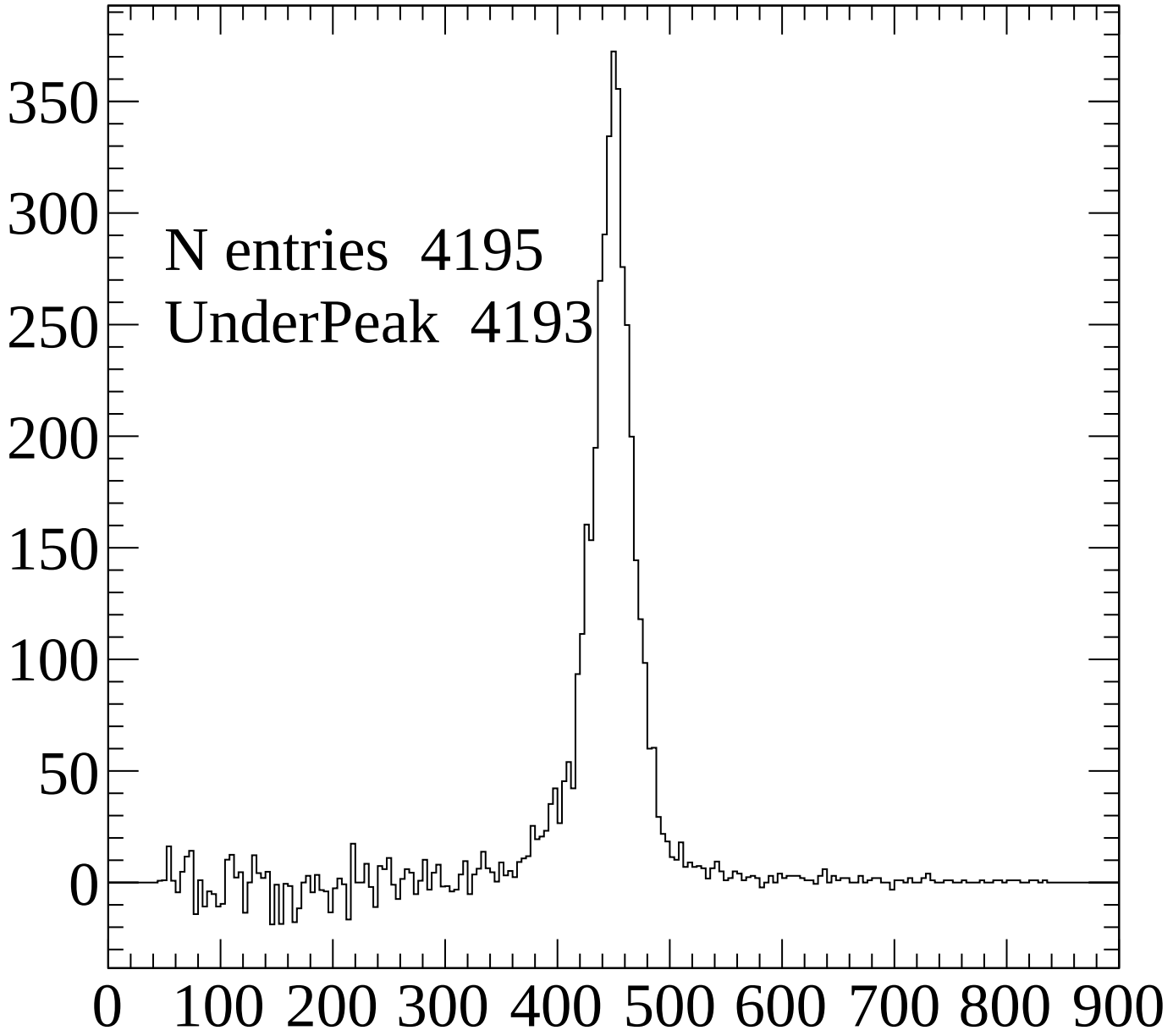

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaUnderPeakEThr90_FR
PADME Internal
nPOT=2.69×10^10
Target
No Target
400
350
300
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

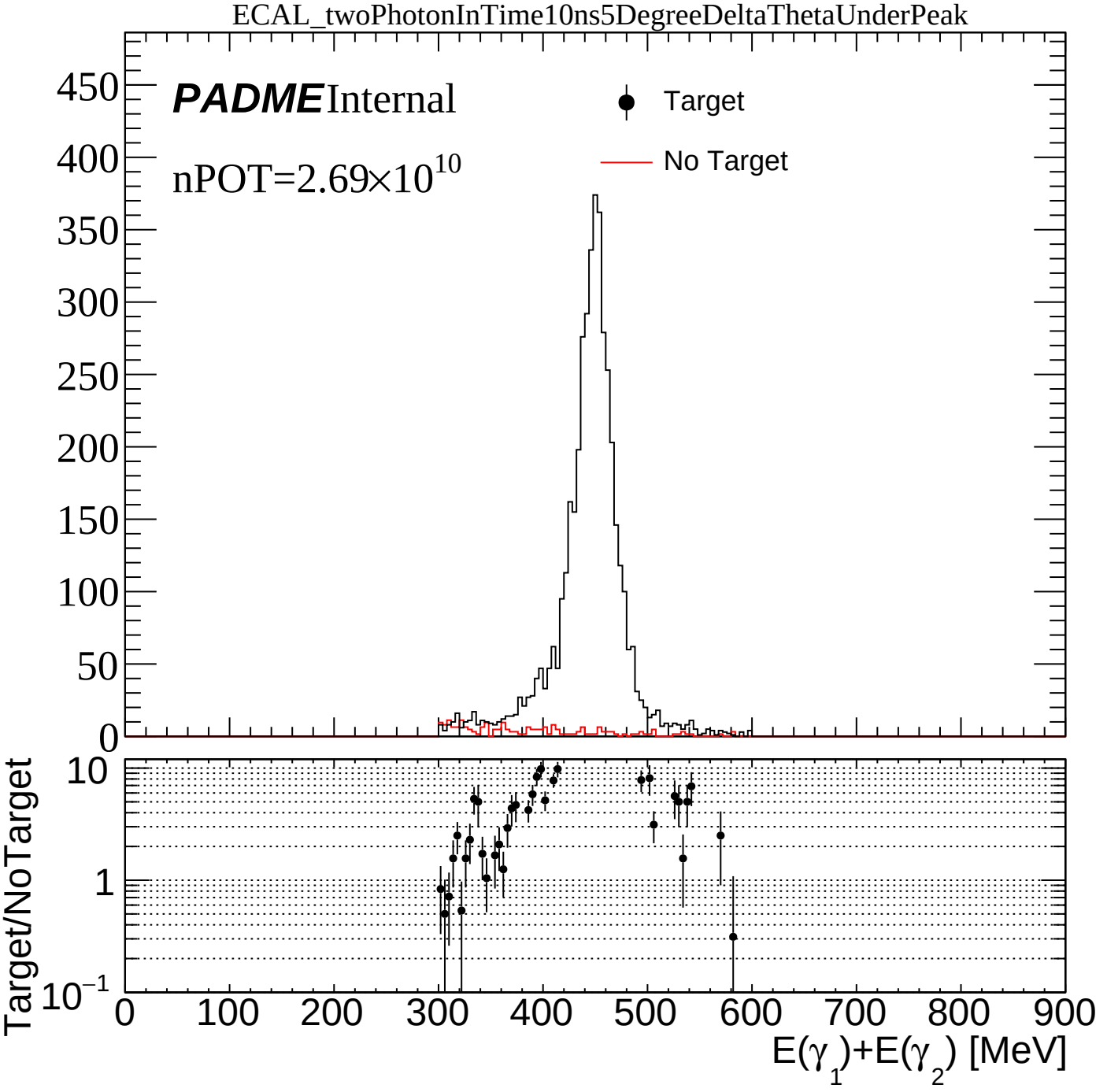

N entries 3508
UnderPeak 3508
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

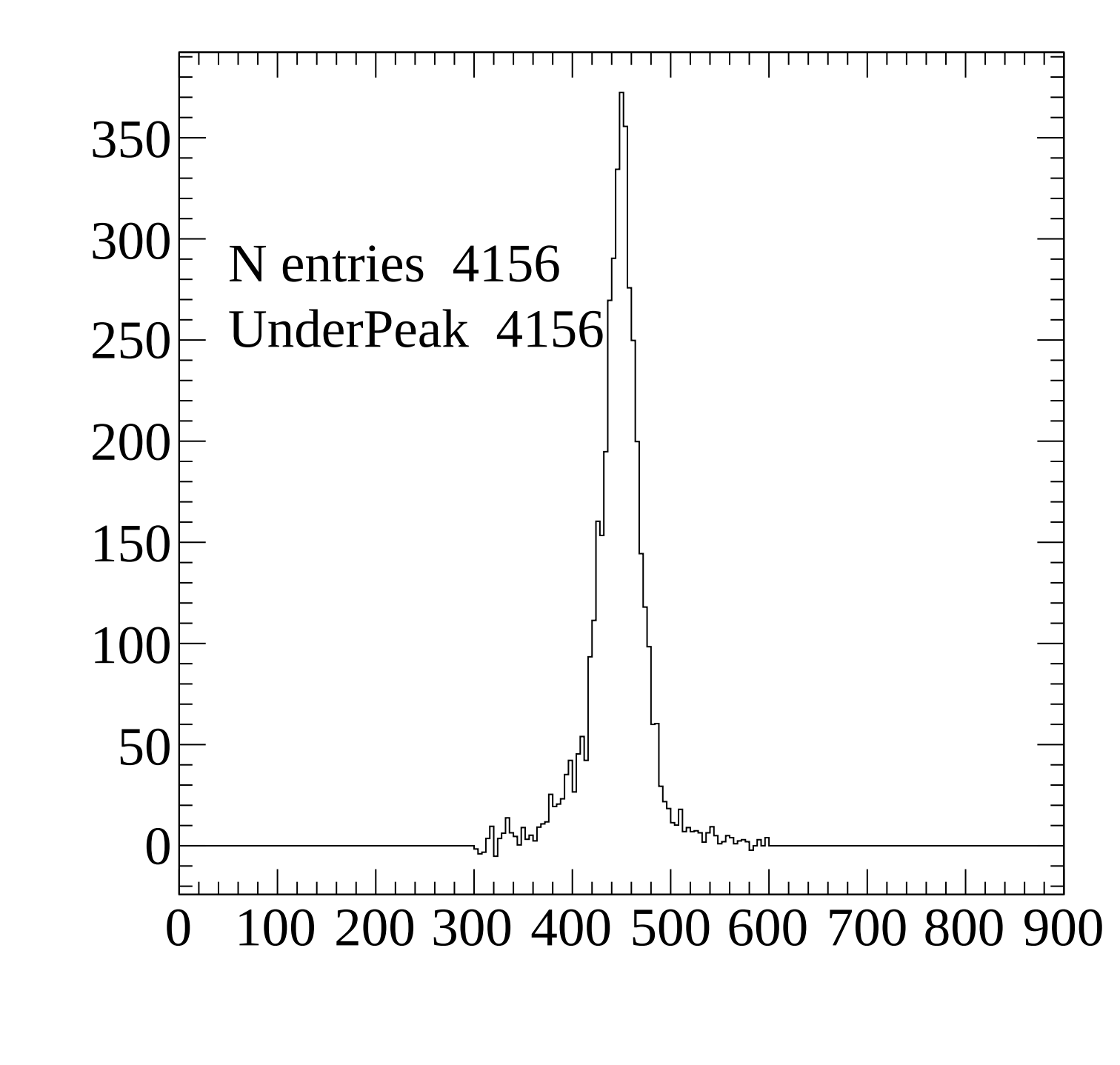

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaEThr90
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

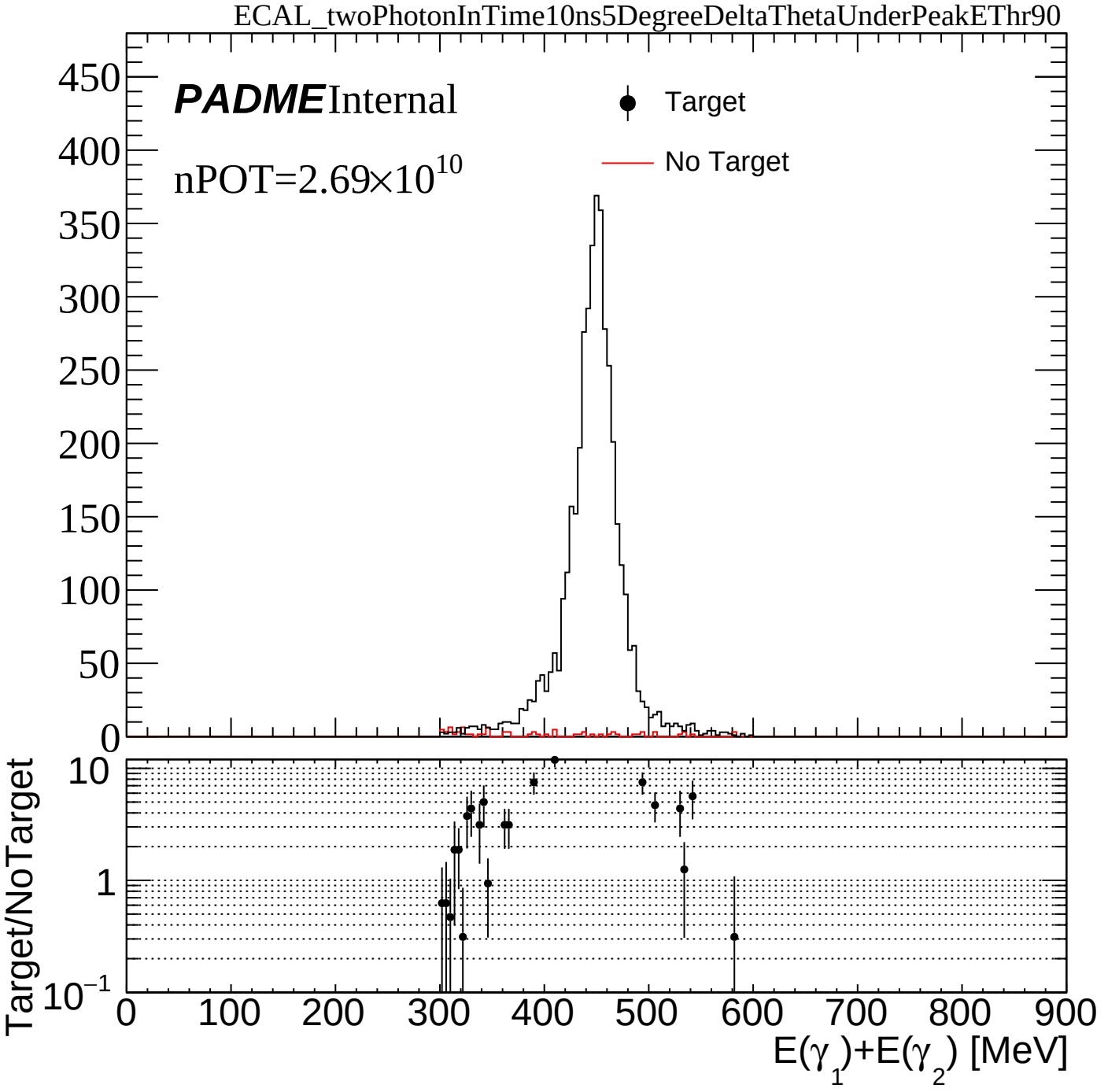

N entries 7430
UnderPeak 7367
600
500
400
300
200
100
0
0 100 200 300 400 500 600 700 800 900

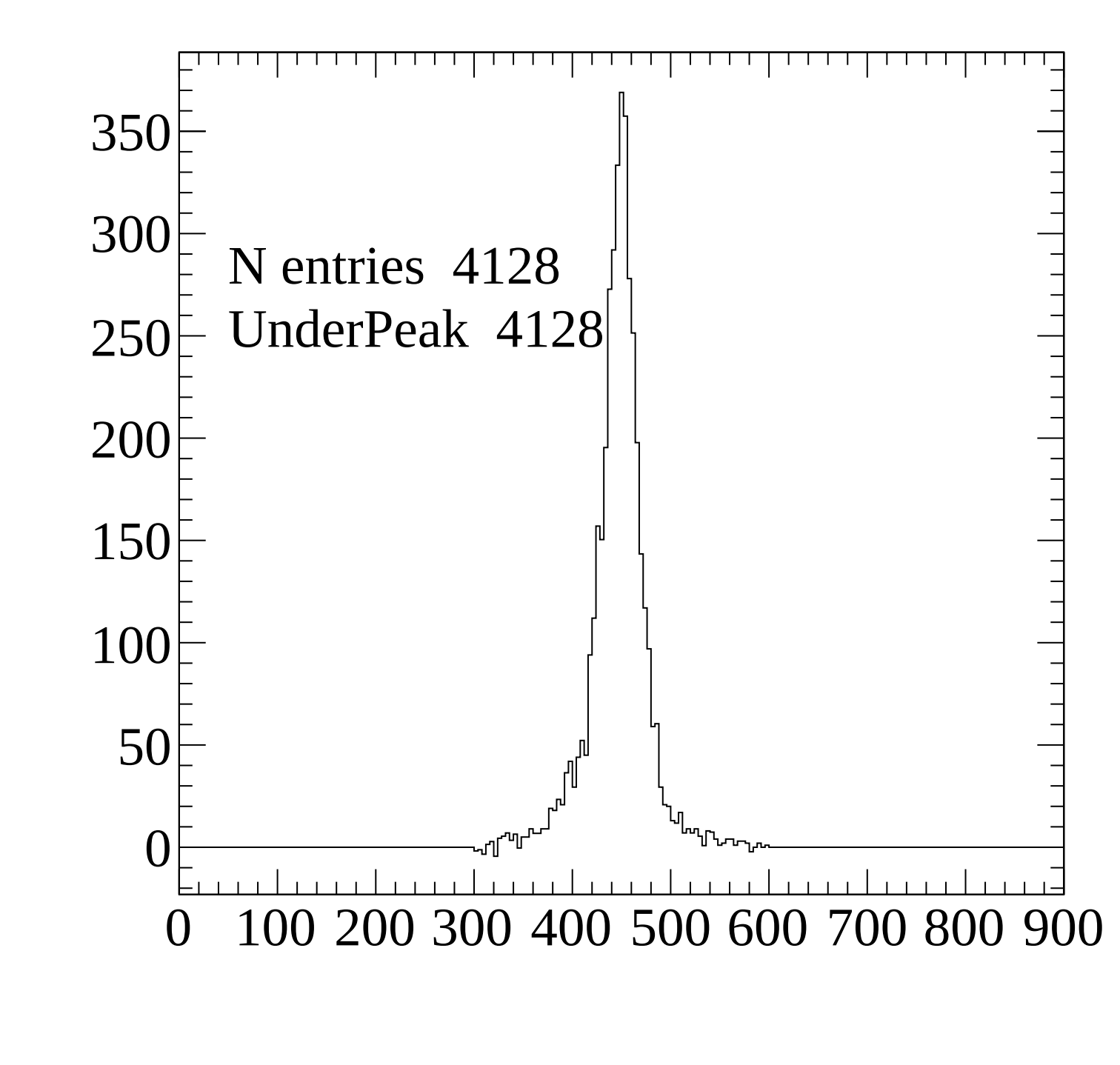

ECAL_gravTwoPhoton10ns_InDeltaPhi5Degree2Method_DeltaTheta
PADME Internal
nPOT=2.69×10^10
Target
No Target
450
400
350
300
250
200
150
100
50
0
Target/NoTarget
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ_1)+E(γ_2) [MeV]

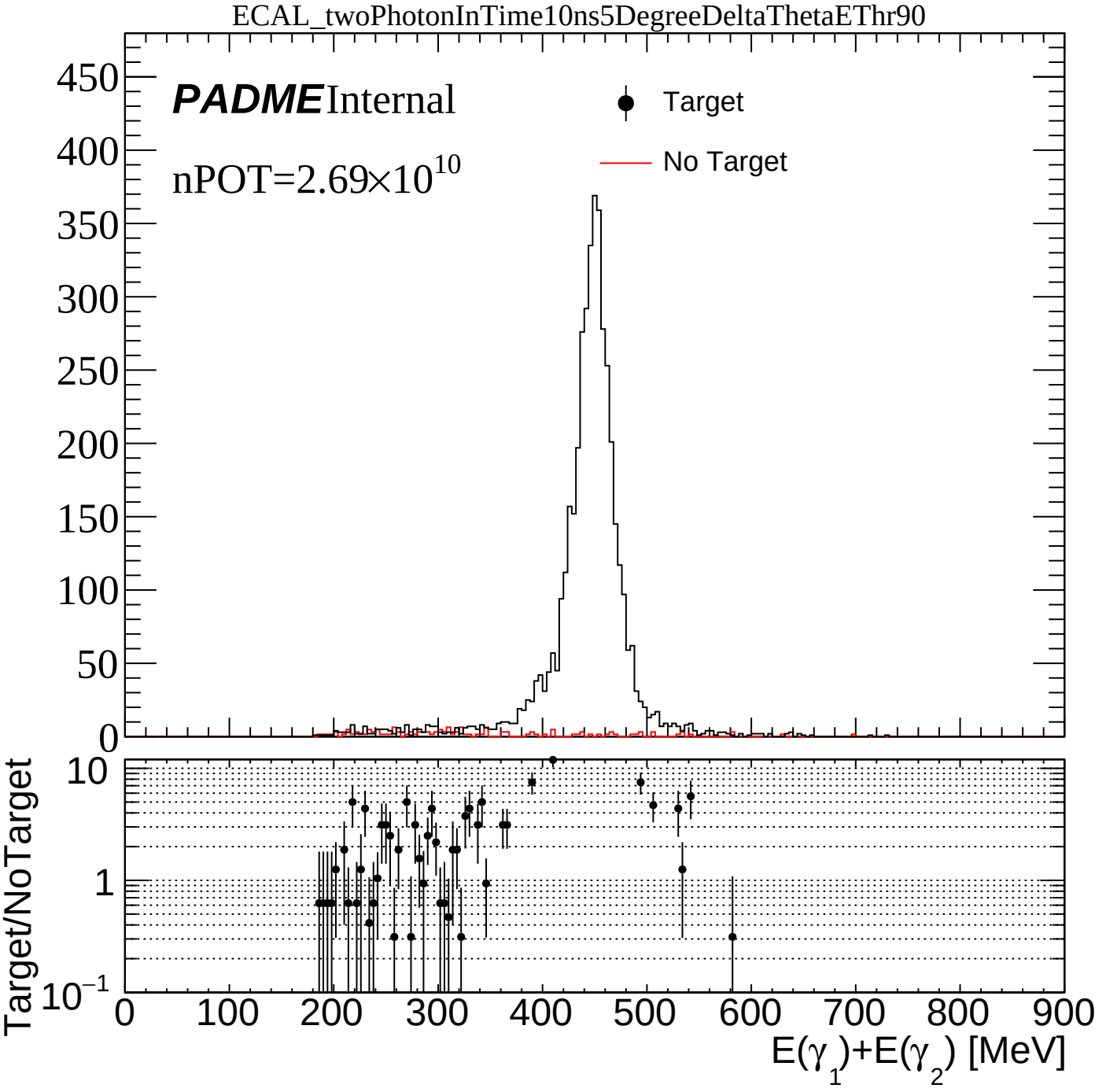

N entries 4195
UnderPeak 4193
350
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

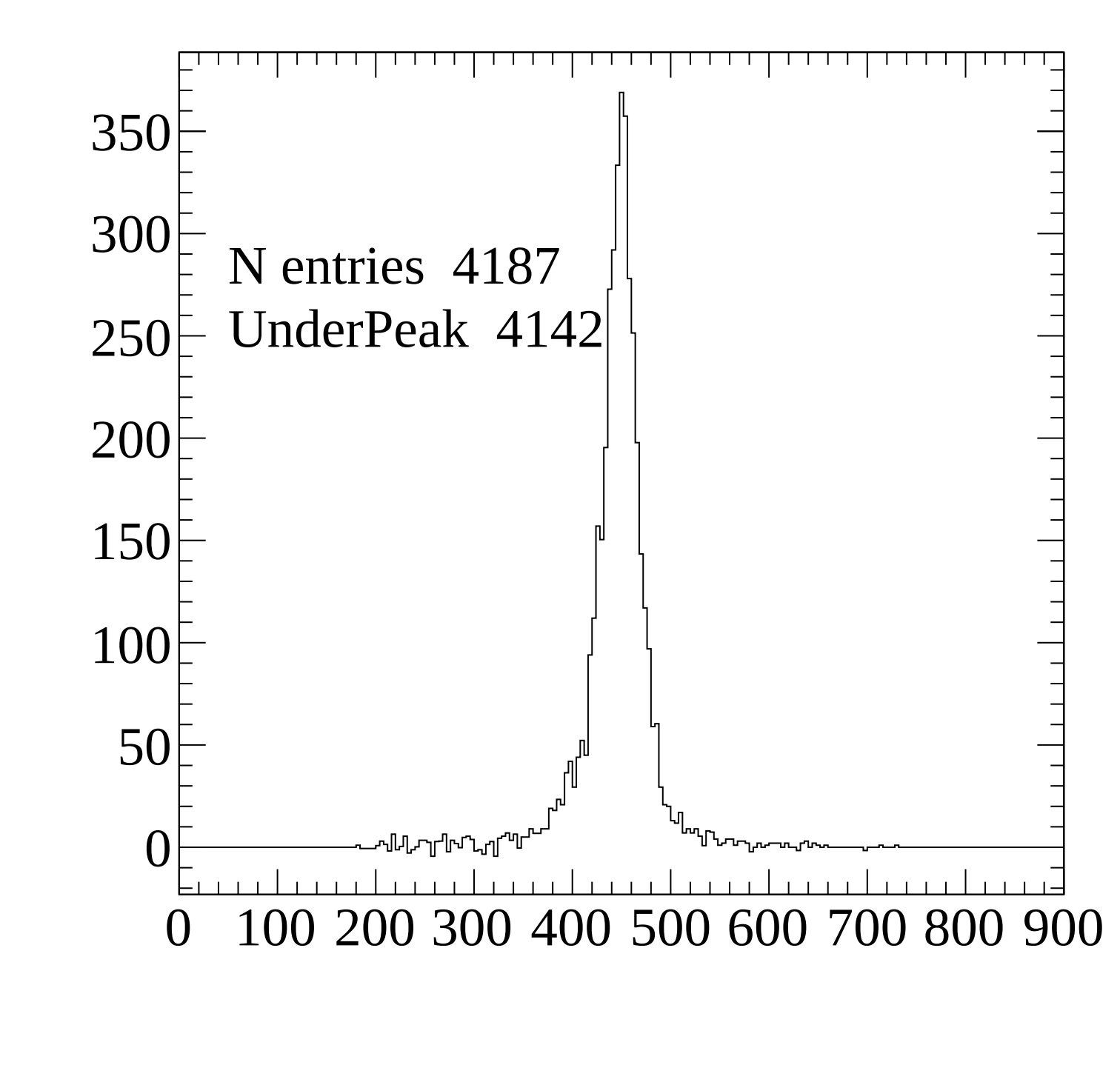

ECAL_twoPhotonInTime10ns5DegreeDeltaThetaUnderPeak
PADME Internal
nPOT=2.69×10^10
Target
No Target
450
400
350
300
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

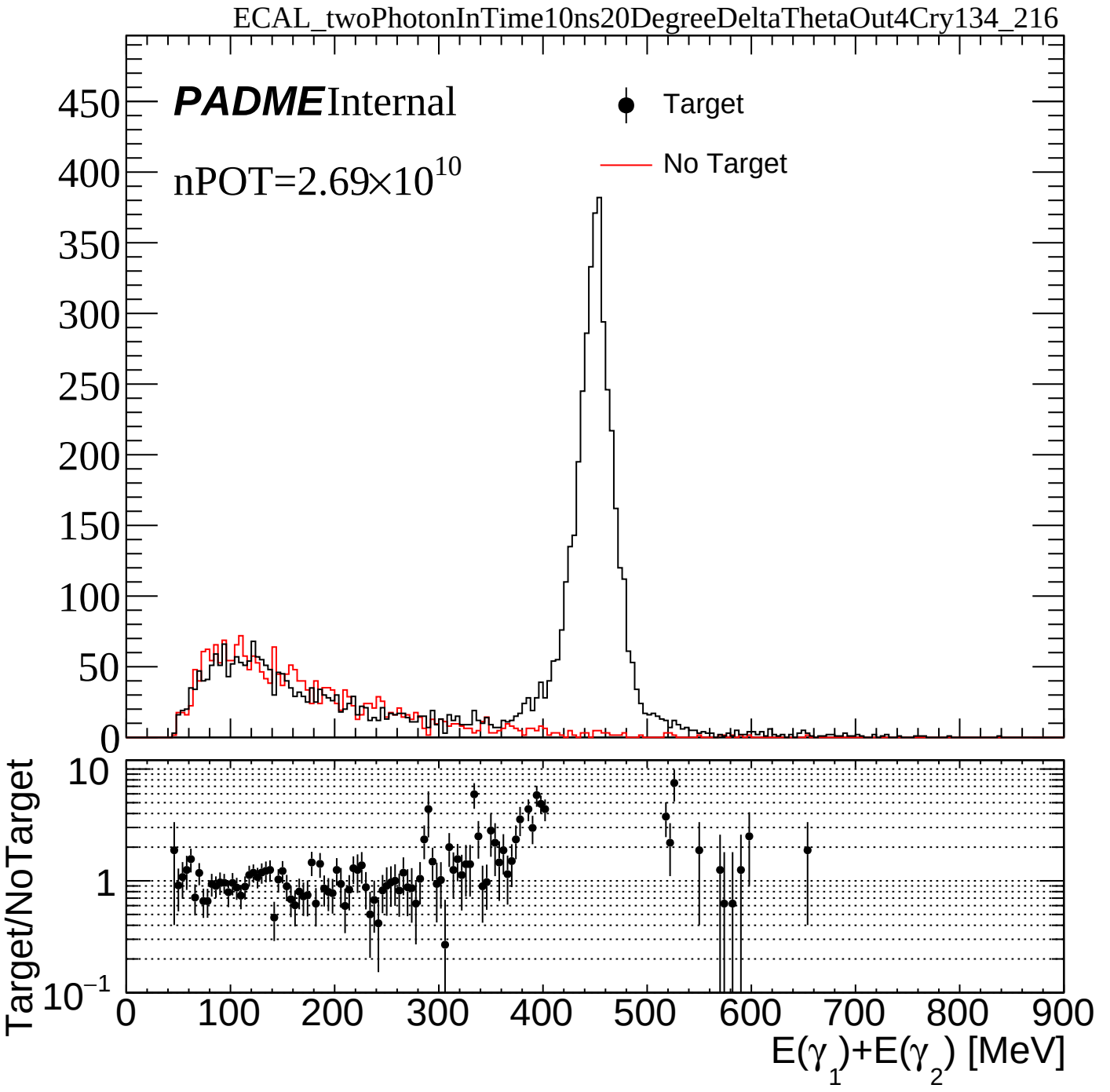

N entries 4156
UnderPeak 4156
350
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

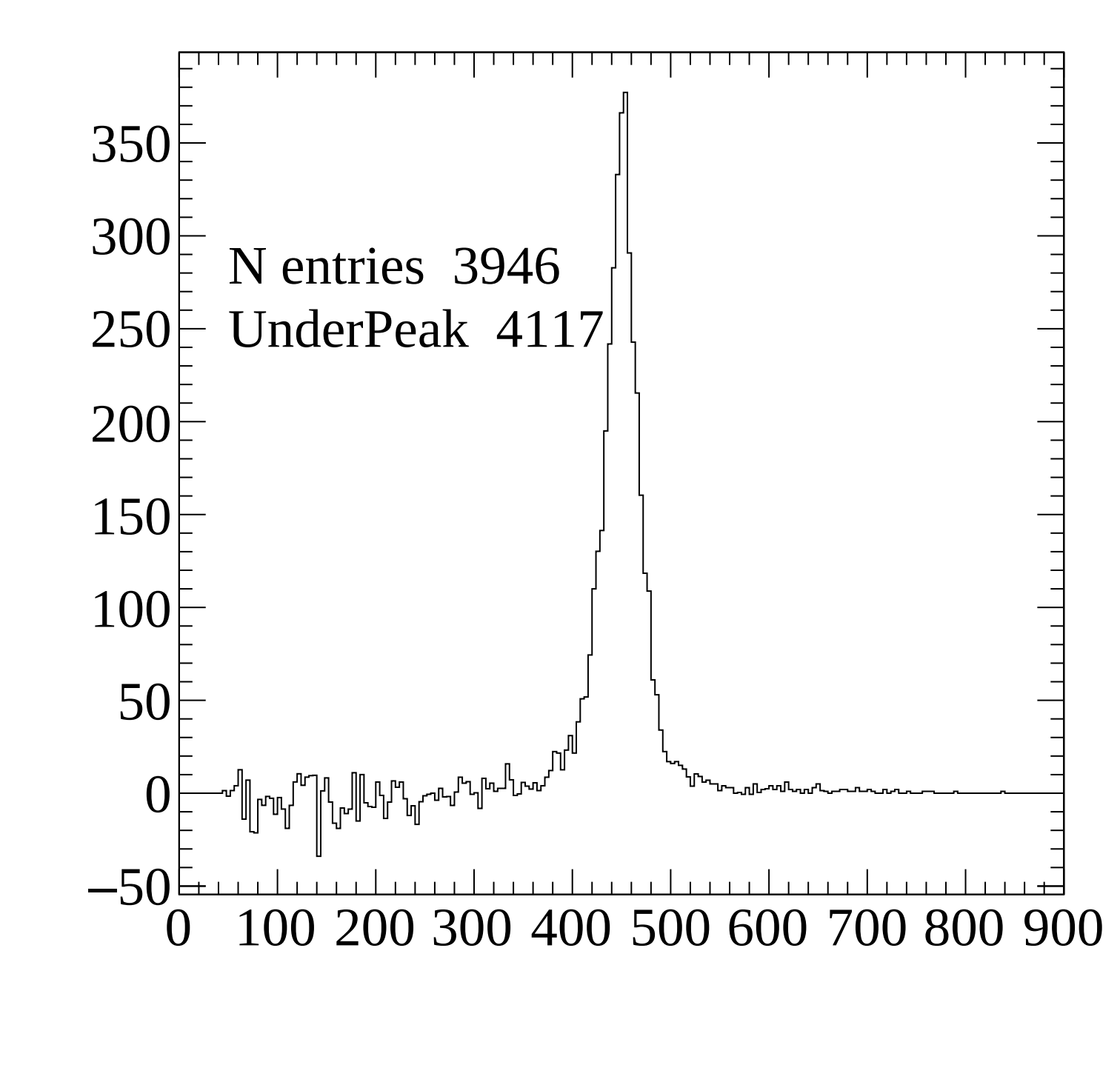

ECAL_twoPhotonInTime10ns5DegreeDeltaThetaUnderPeakEThr90
PADME Internal
nPOT=2.69×10^10
Target
No Target
450
400
350
300
250
200
150
100
50
0
Target/NoTarget
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ_1)+E(γ_2) [MeV]

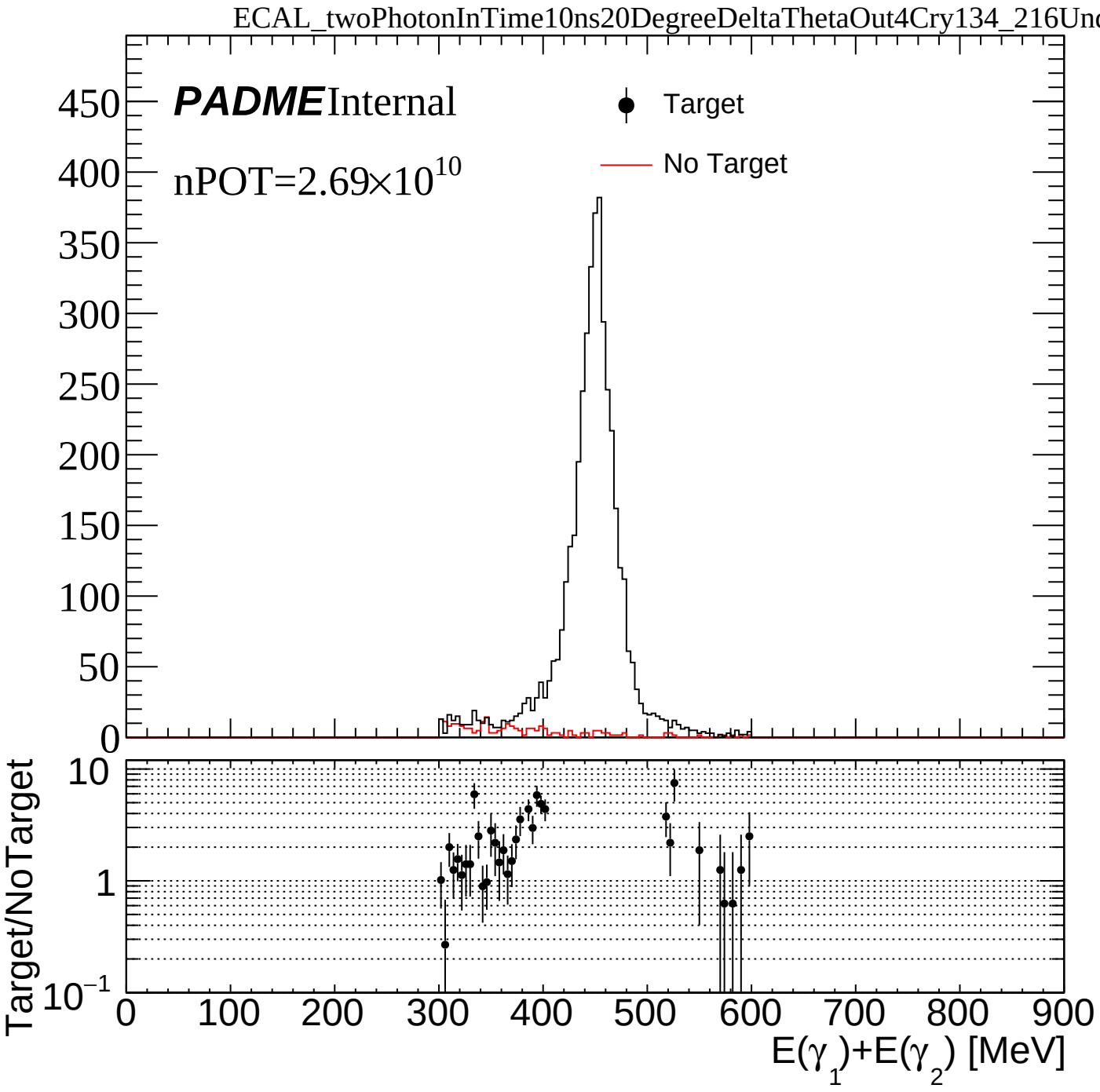

N entries 4128
UnderPeak 4128
350
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

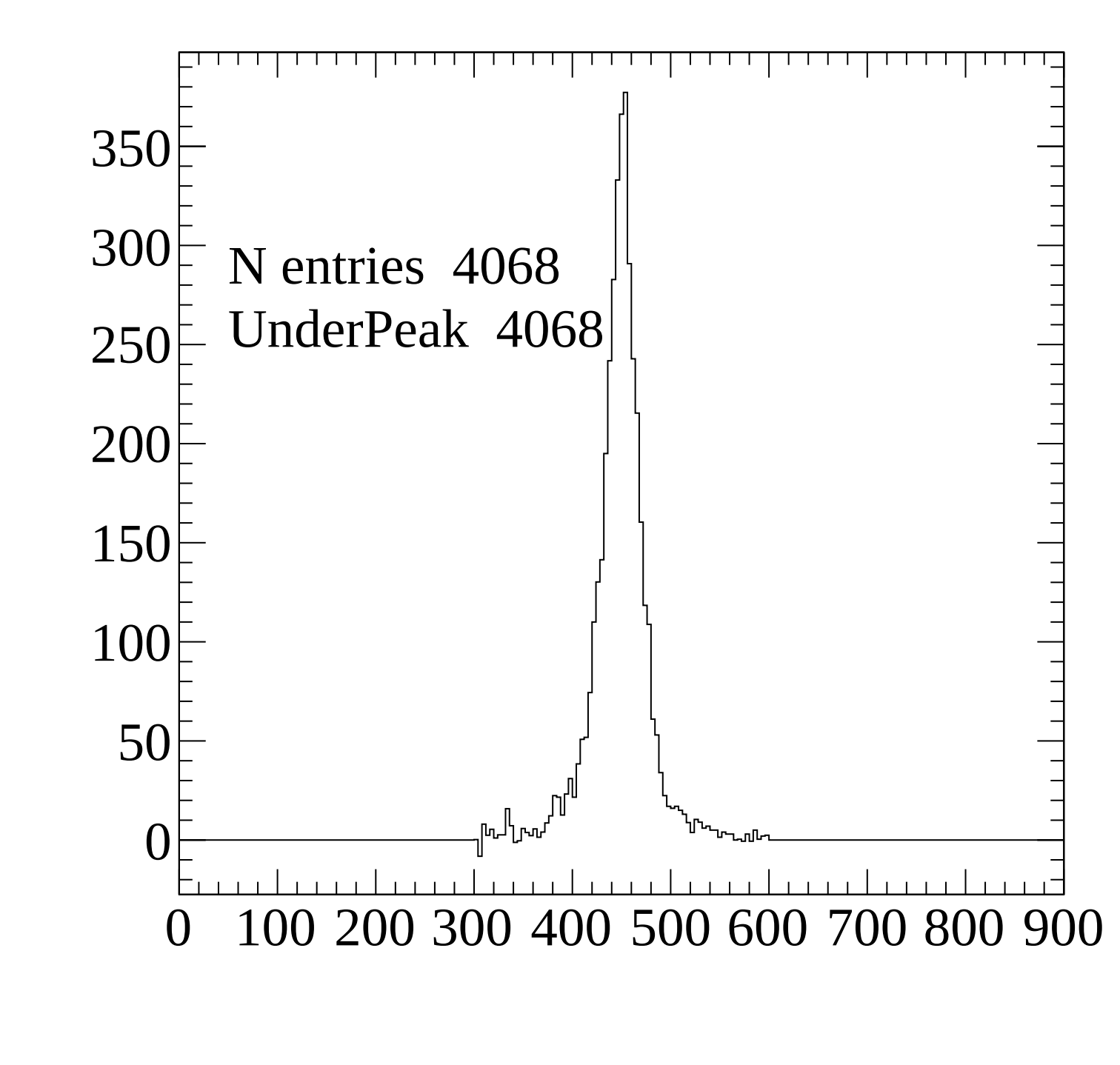

ECAL_twoPhotonInTime10ns5DegreeDeltaThetaEThr90
PADME Internal
nPOT=2.69×10^10
Target
No Target
450
400
350
300
250
200
150
100
50
0
Target/NoTarget
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

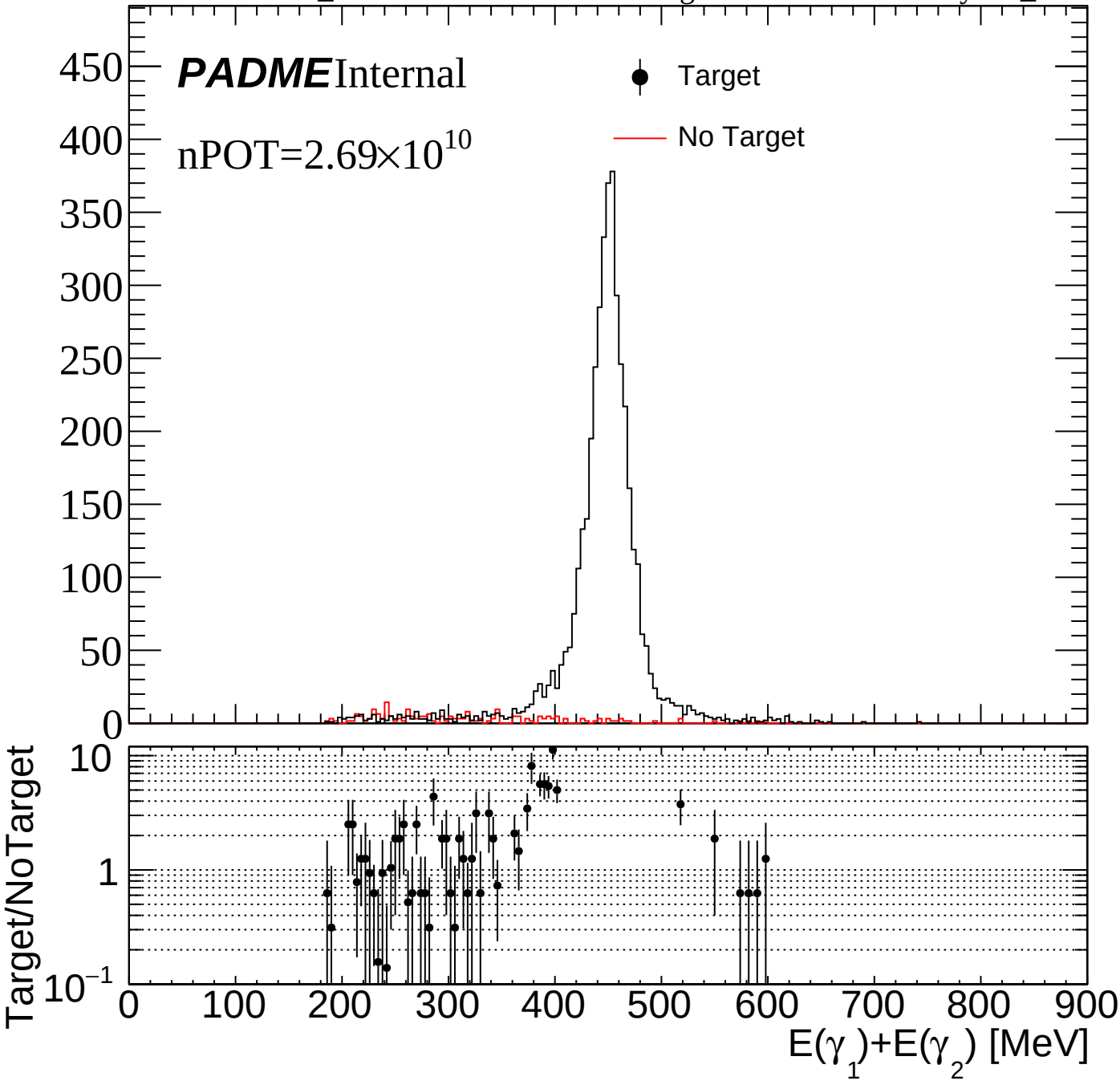

N entries 4187
UnderPeak 4142
350
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

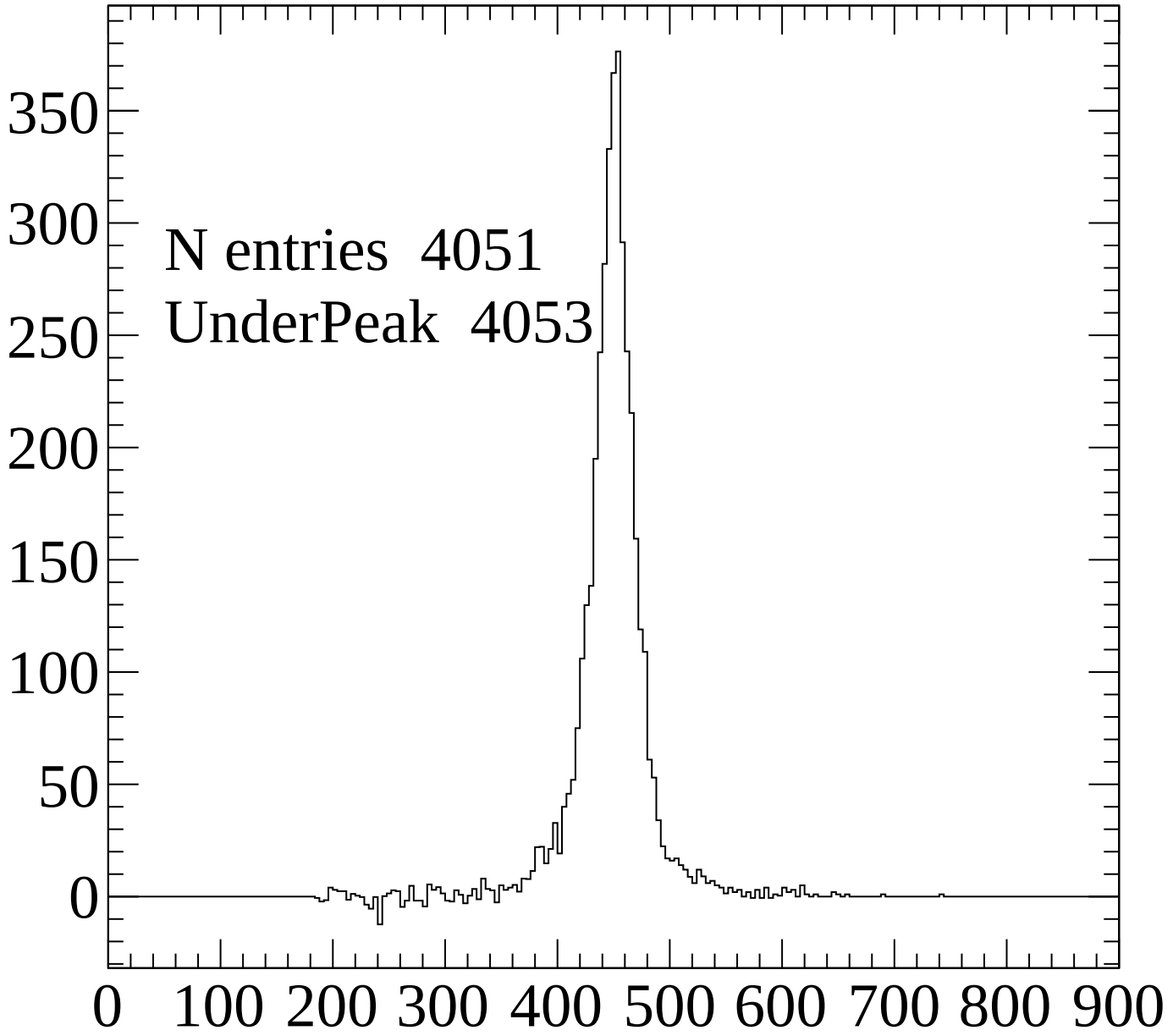

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaOut4Cry134_216
PADME Internal
nPOT=2.69×10^10
Target
No Target
450
400
350
300
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

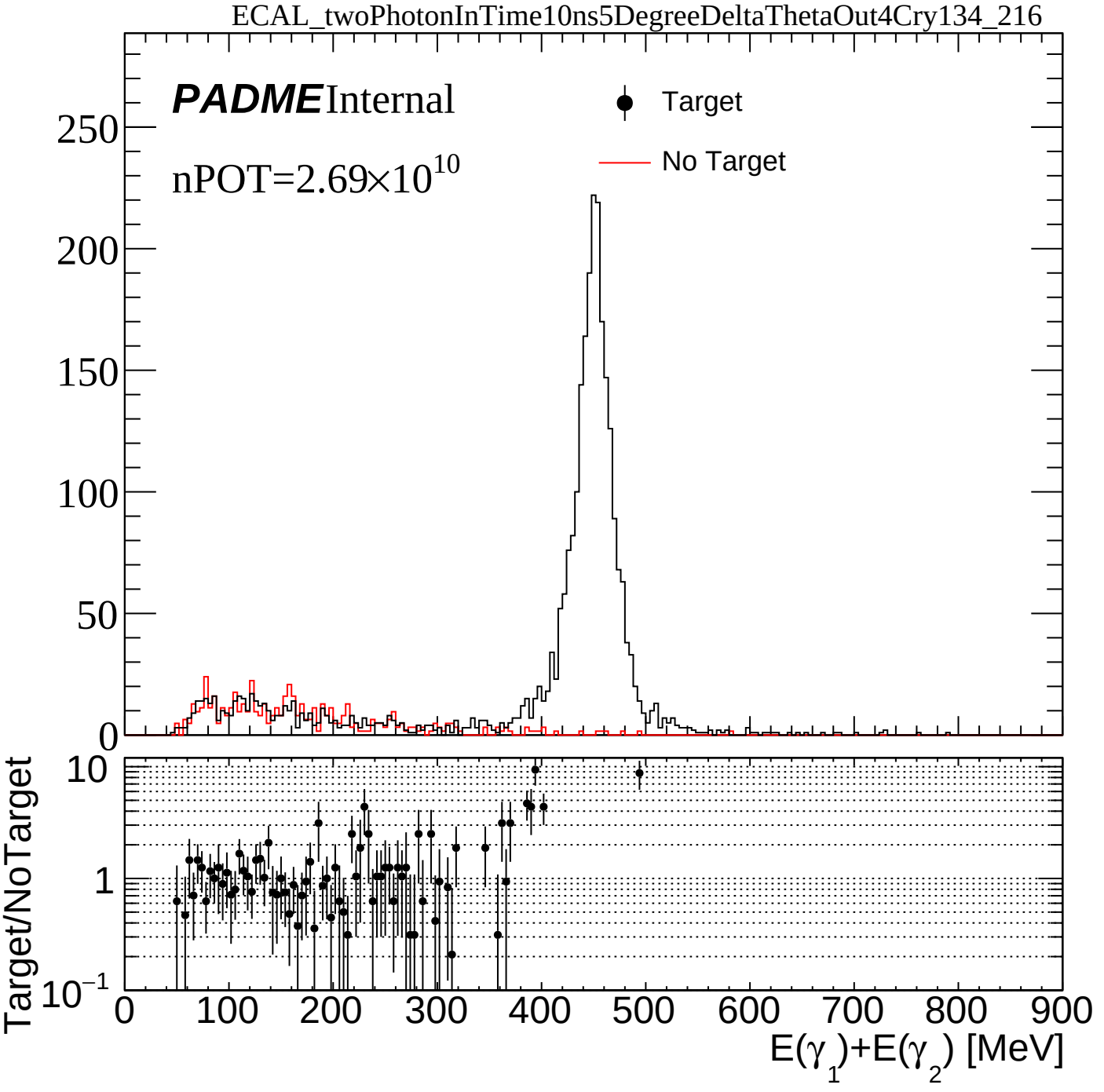

N entries 3946
UnderPeak 4117
350
300
250
200
150
100
50
0
−50
0
100
200
300
400
500
600
700
800
900

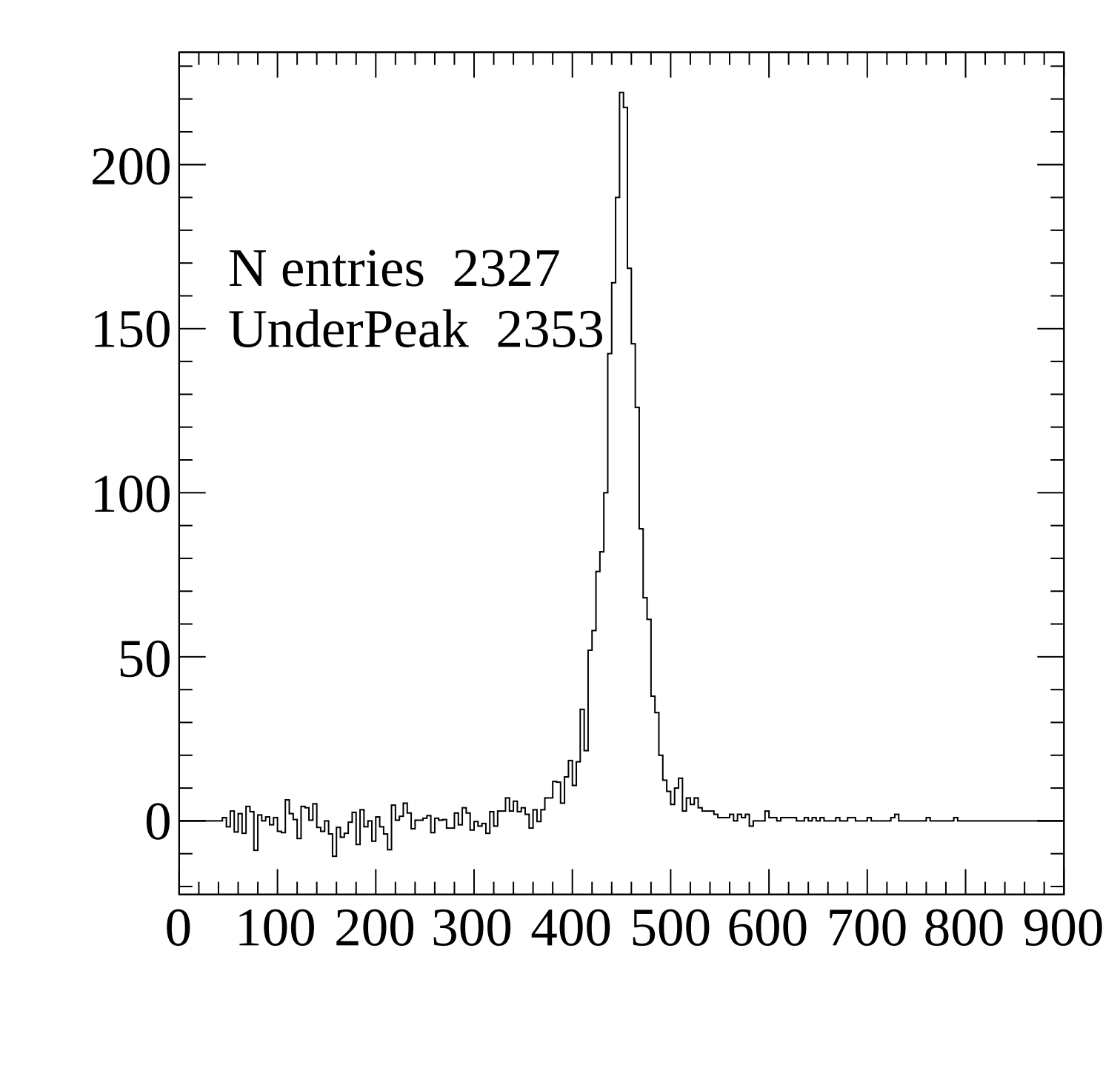

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaOut4Cry134_216Unde
PADME Internal
nPOT=2.69×10^10
Target
No Target
450
400
350
300
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

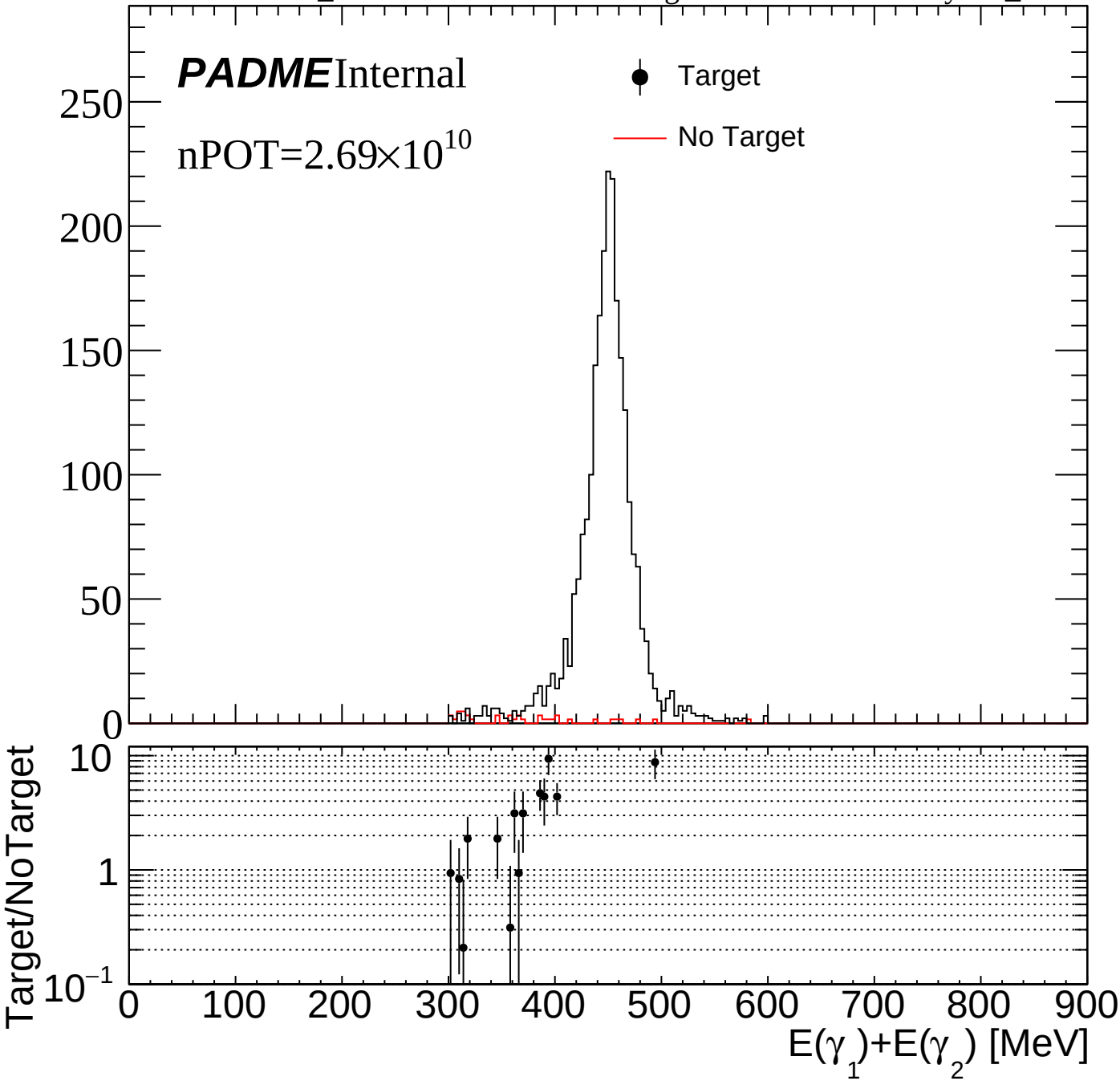

N entries 4068
UnderPeak 4068
350
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

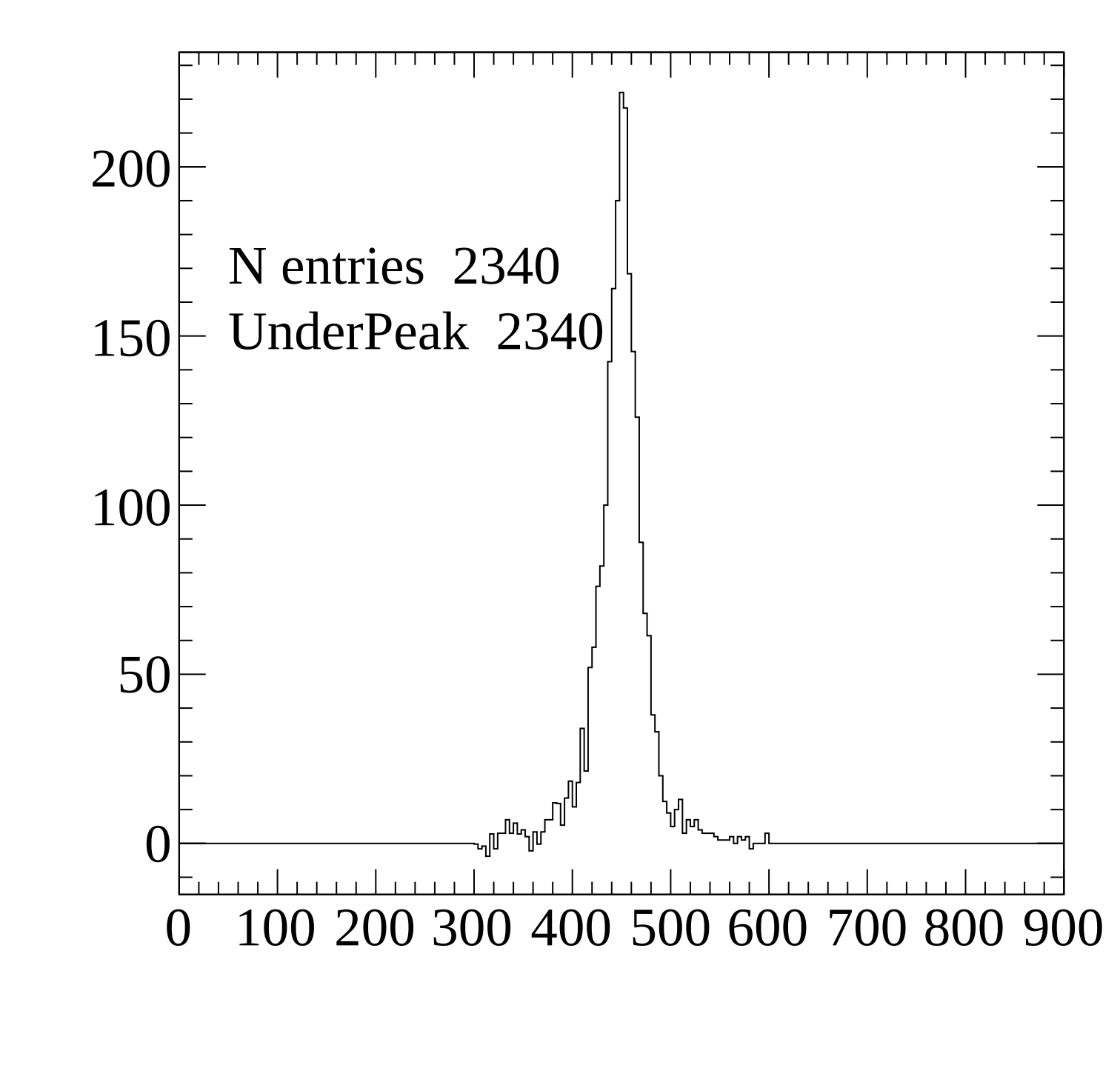

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaOut4Cry134_216EThr
PADME Internal
nPOT=2.69×10^10
Target
No Target
450
400
350
300
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

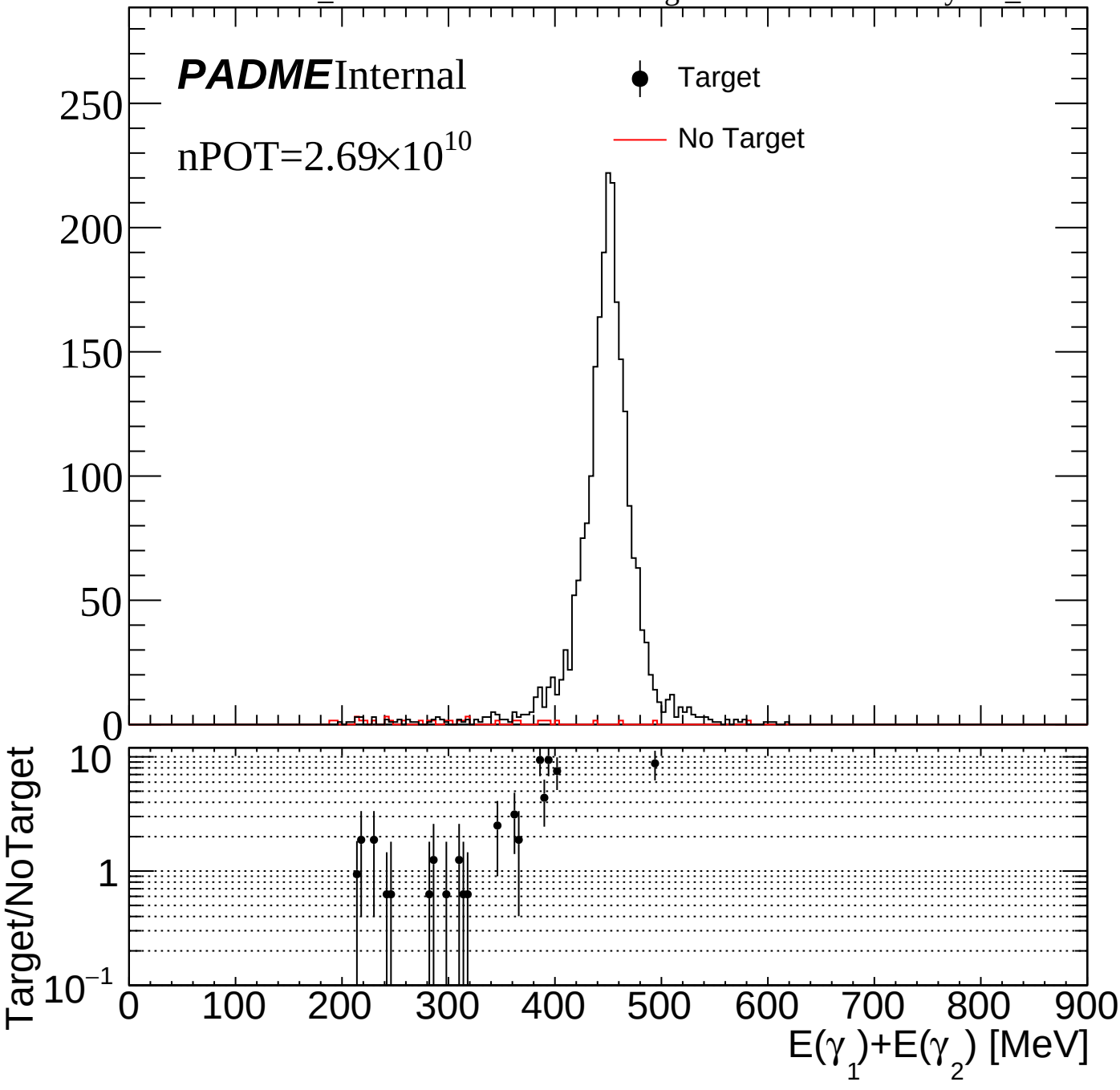

N entries 4051
UnderPeak 4053
350
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

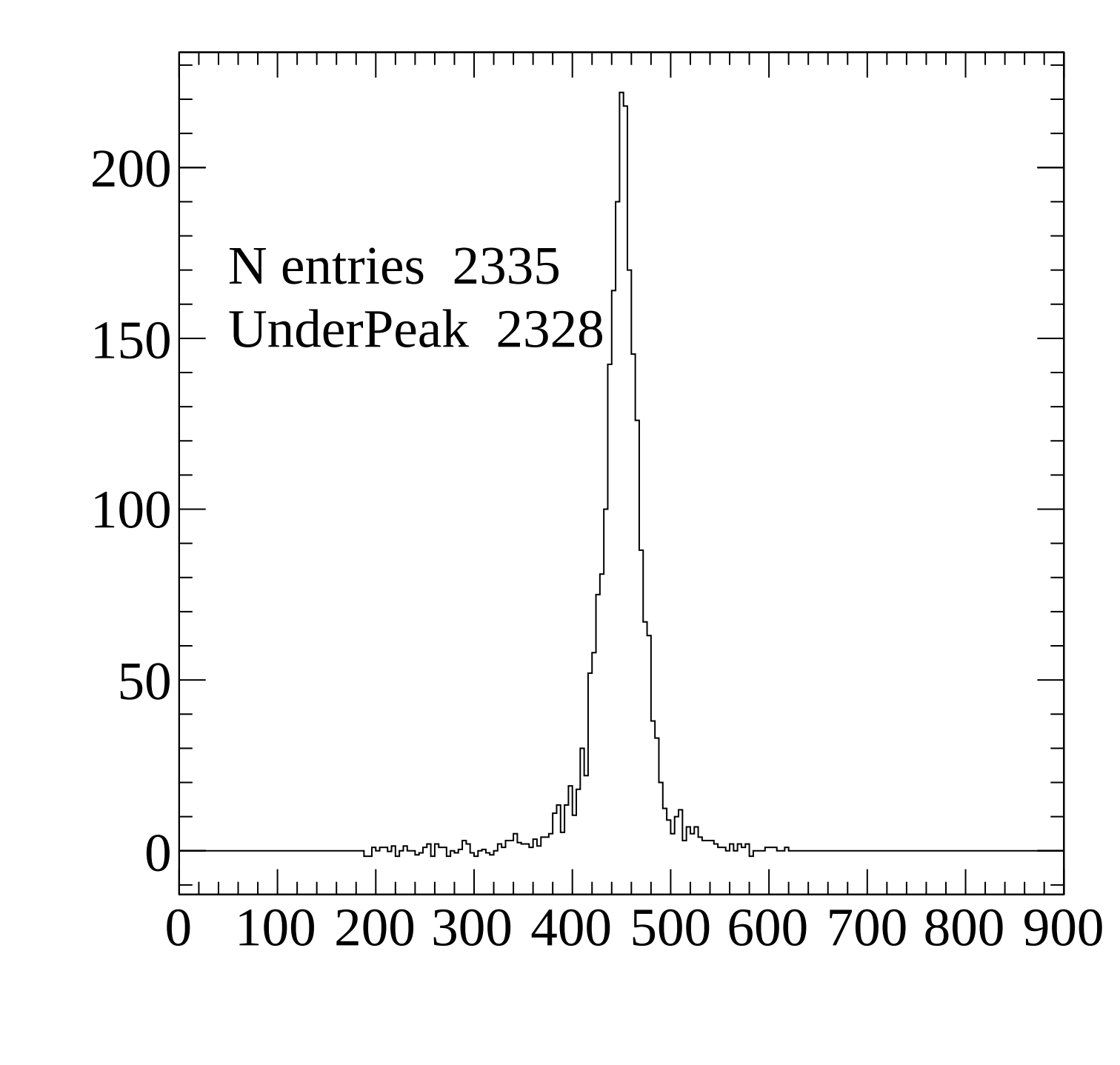

ECAL_twoPhotonInTime10ns5DegreeDeltaThetaOut4Cry134_216
PADME Internal
nPOT=2.69×10^10
Target
No Target
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

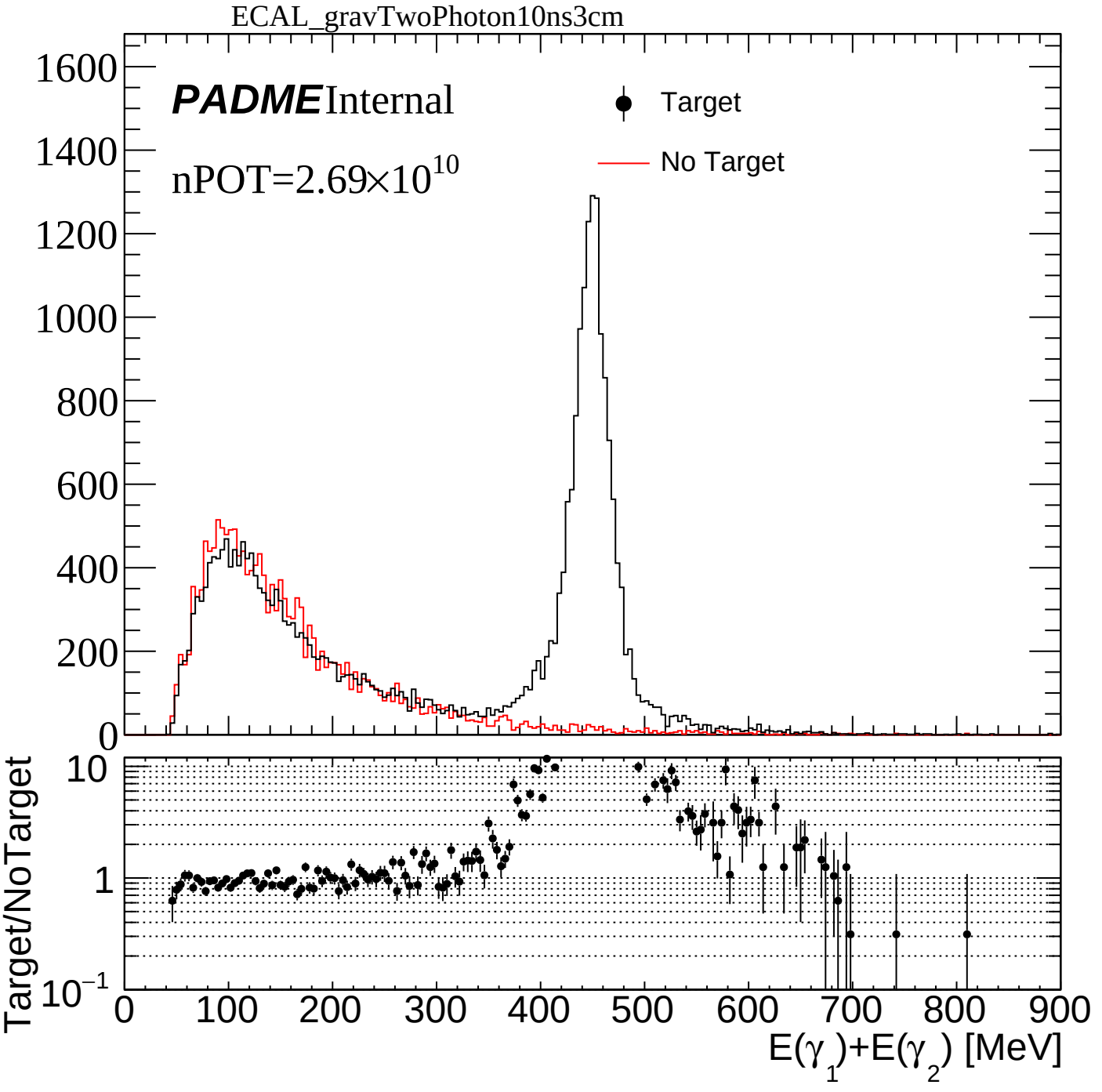

N entries 2327
UnderPeak 2353
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

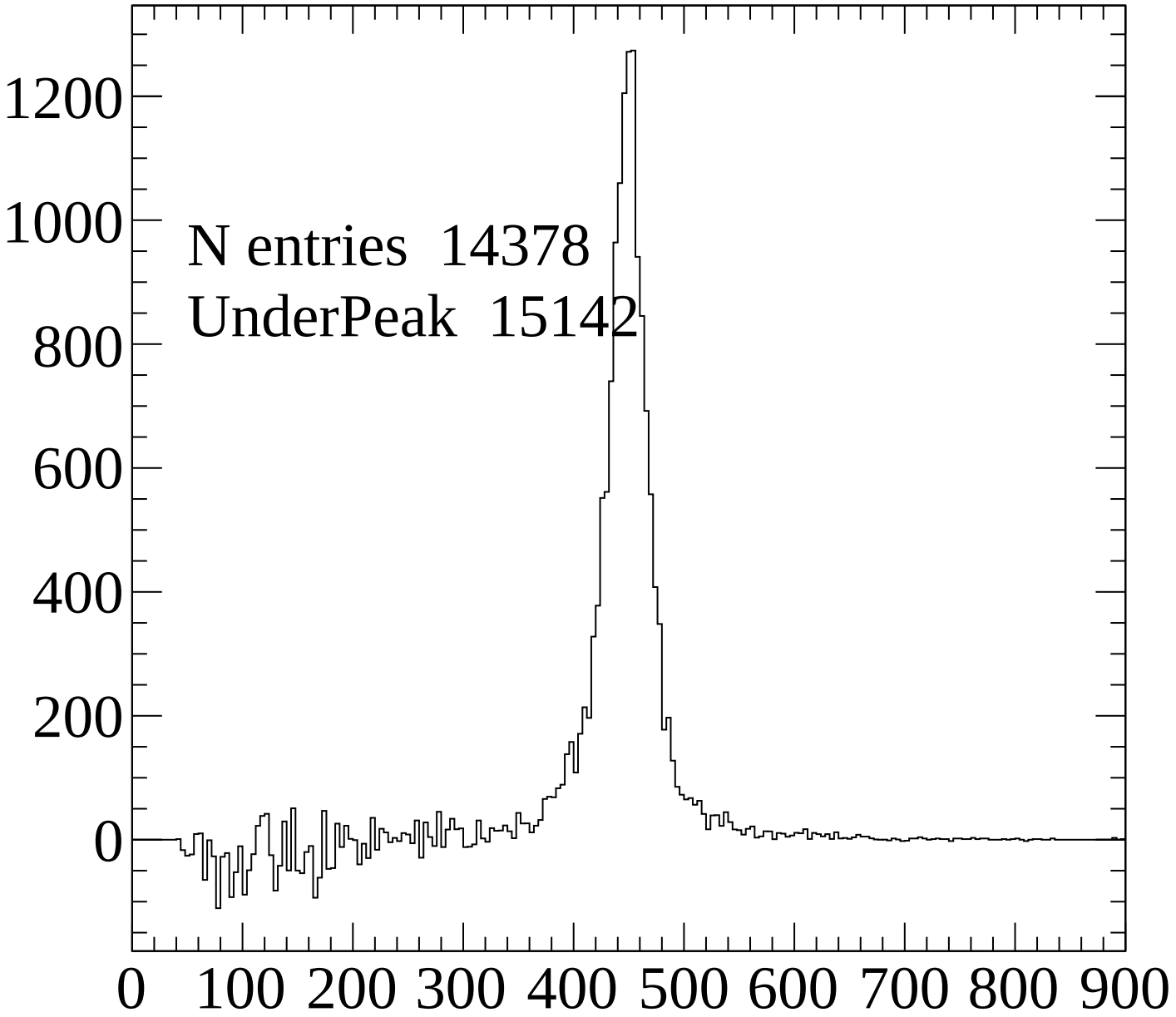

ECAL_twoPhotonInTime10ns5DegreeDeltaThetaOut4Cry134_216Under
PADME Internal
nPOT=2.69×10^10
Target
No Target
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

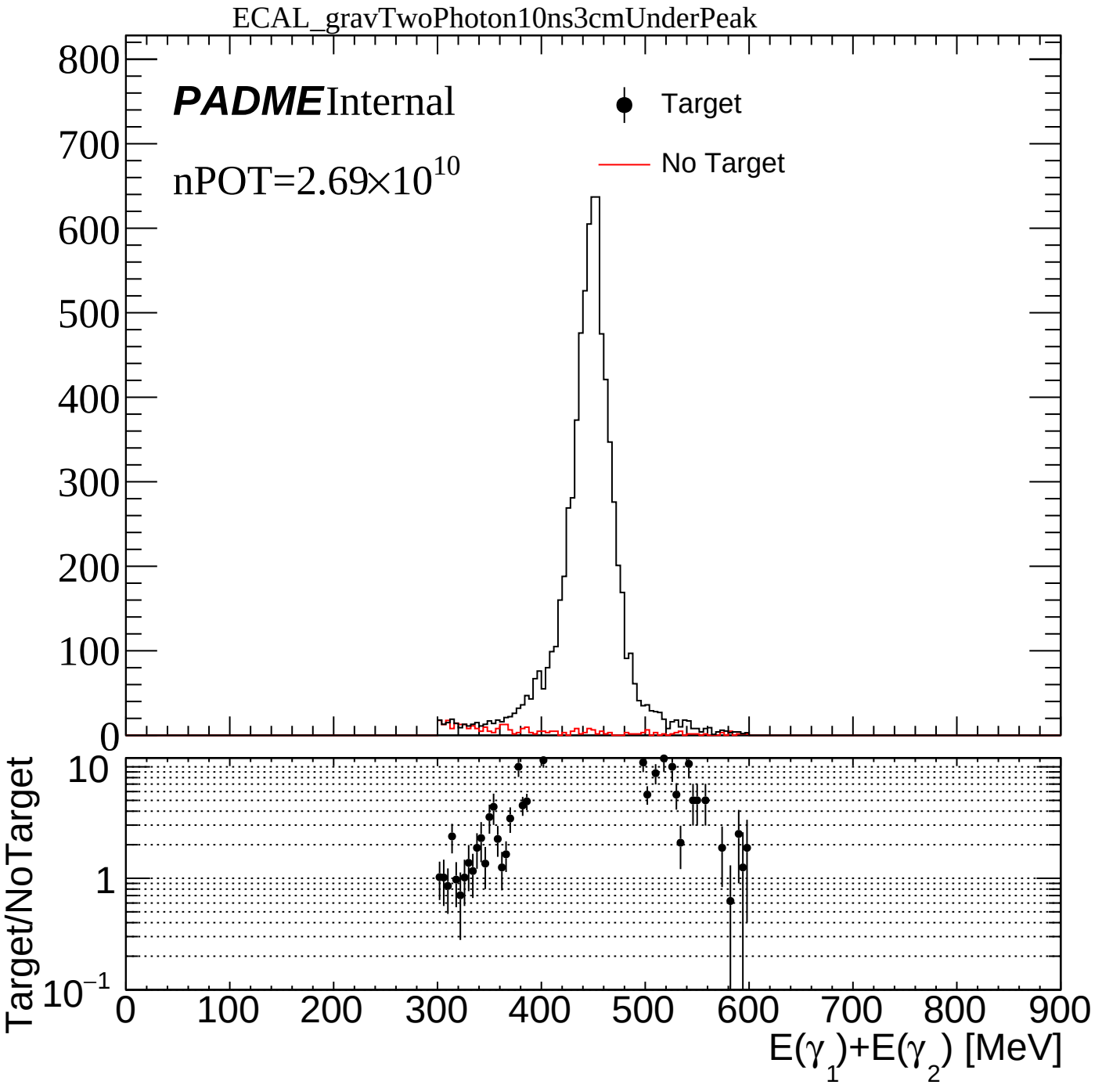

N entries 2340
UnderPeak 2340
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

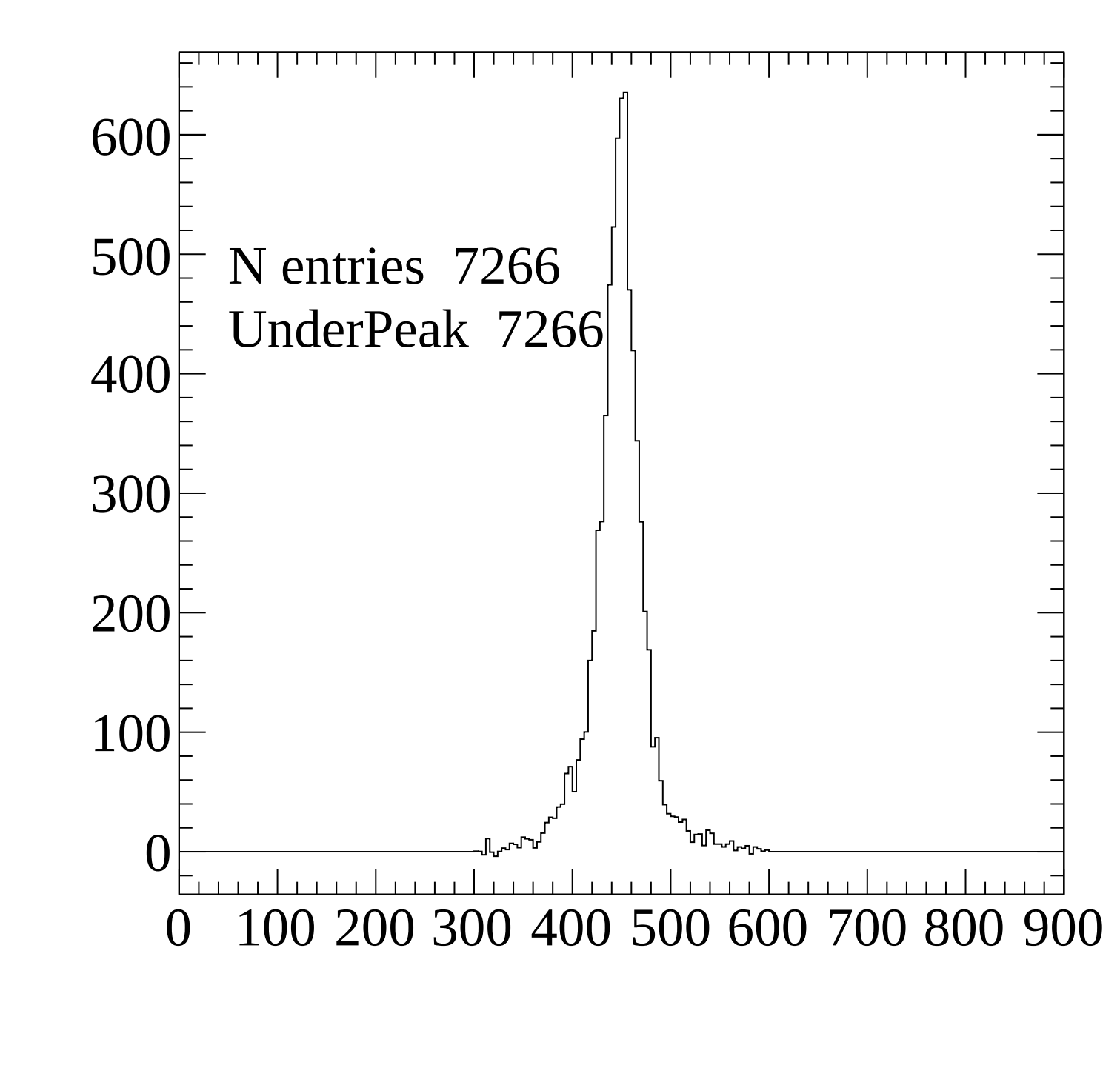

ECAL_twoPhotonInTime10ns5DegreeDeltaThetaOut4Cry134_216EThr90
PADME Internal
nPOT=2.69×10^10
Target
No Target
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

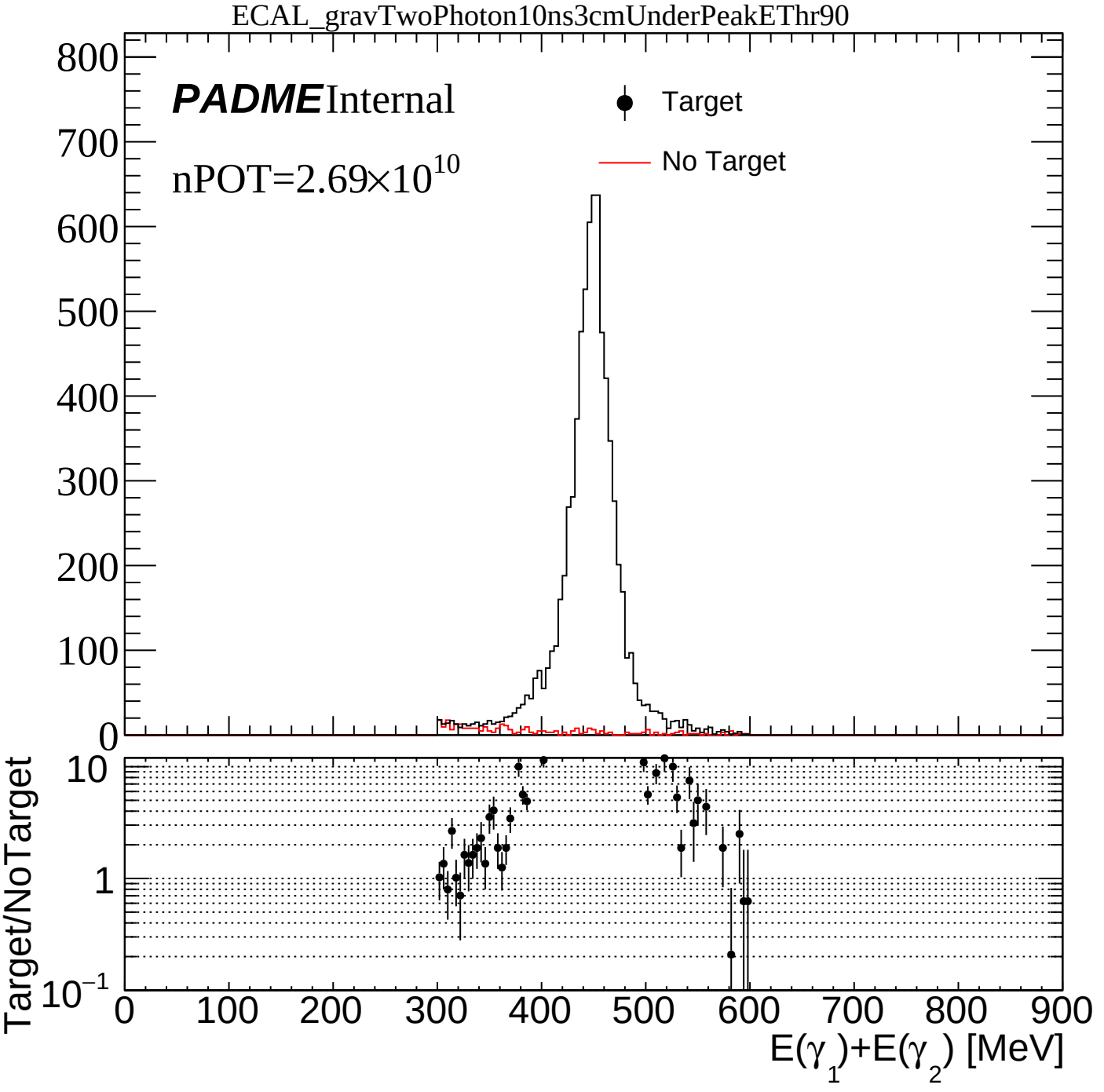

N entries 2335
UnderPeak 2328
200
150
100
50
0
0 100 200 300 400 500 600 700 800 900

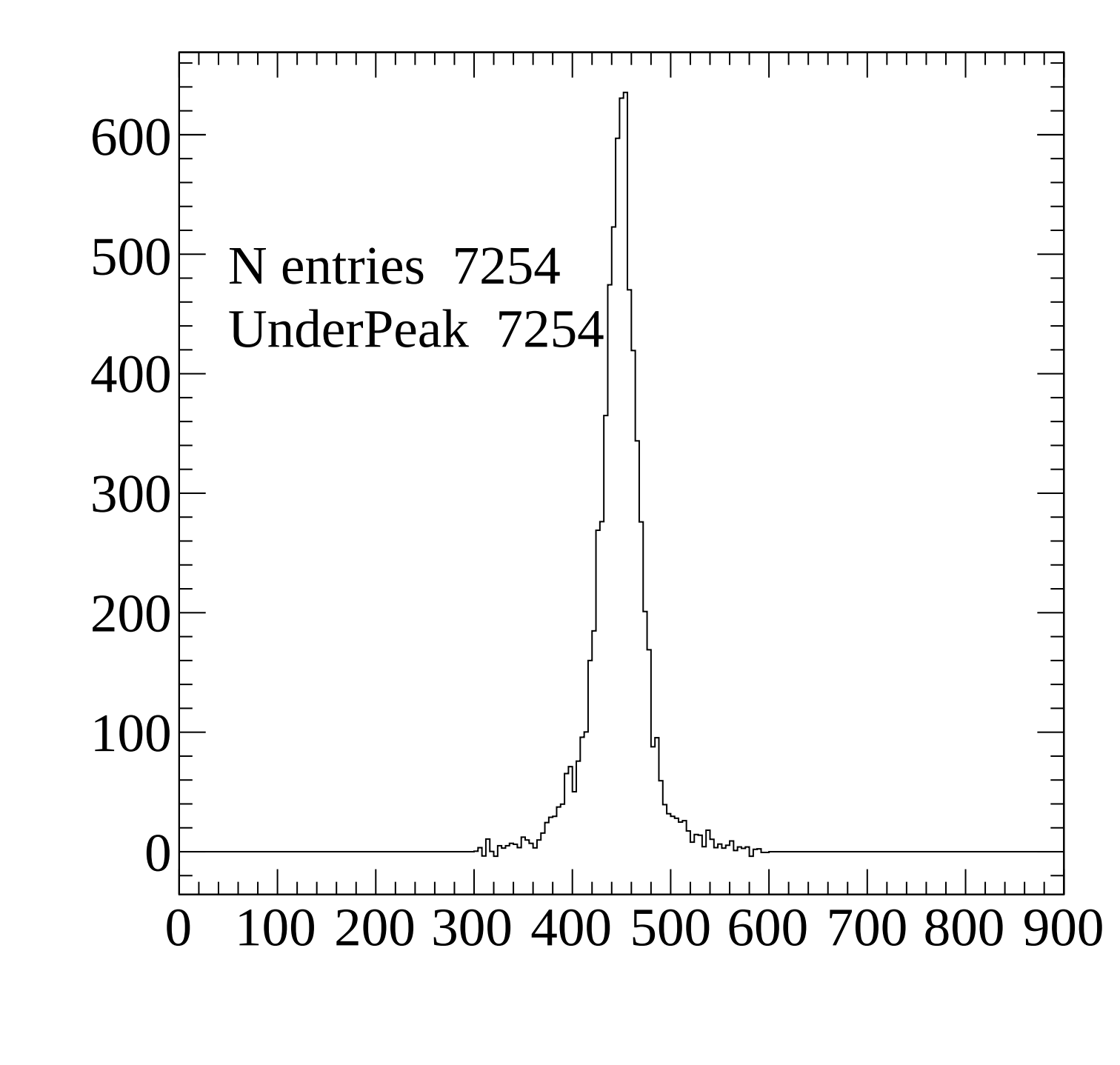

ECAL_gravTwoPhoton10ns3cm
PADME Internal
nPOT=2.69×10^10
Target
No Target
1600
1400
1200
1000
800
600
400
200
0
Target/NoTarget
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ_1)+E(γ_2) [MeV]

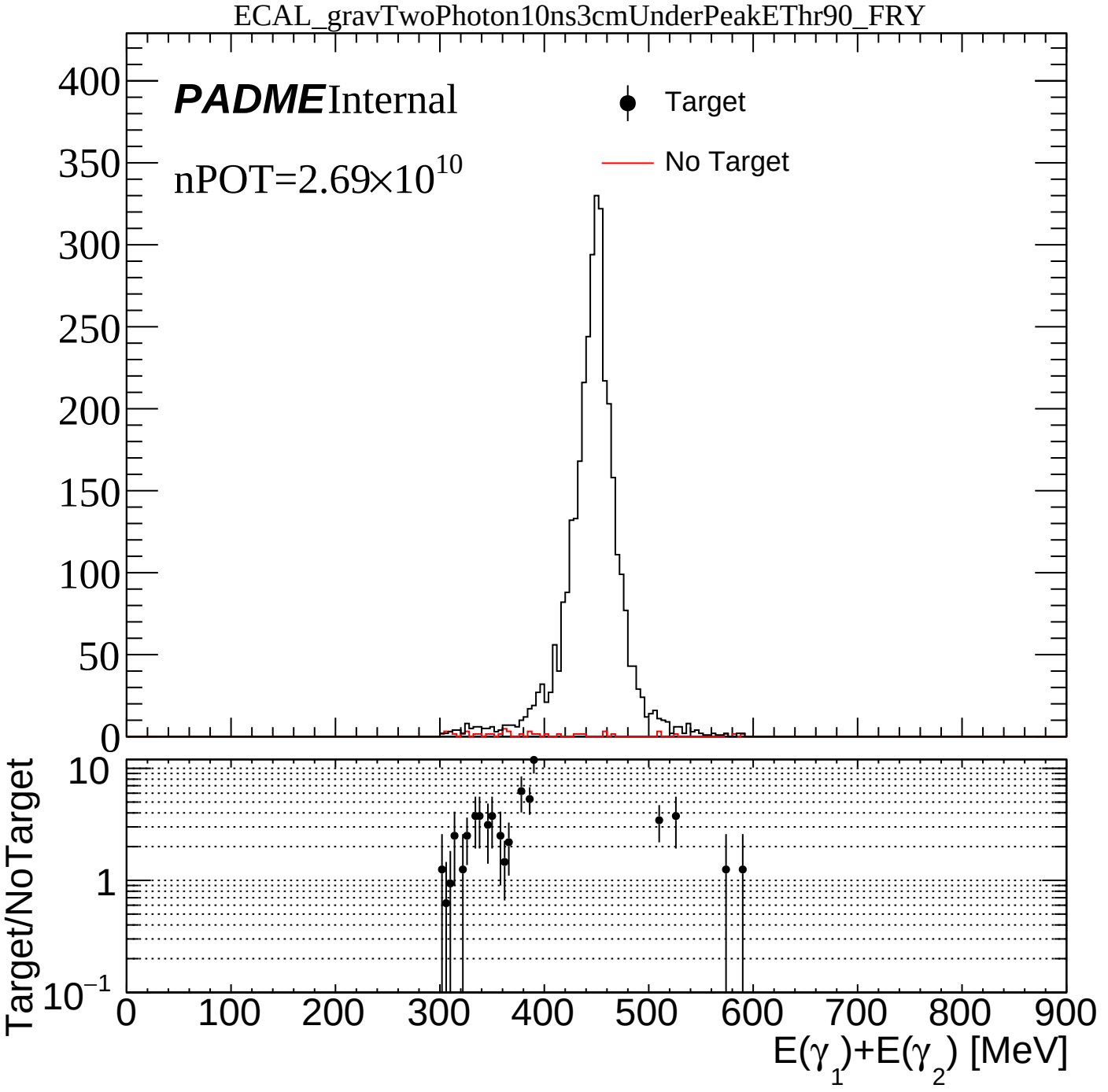

N entries 14378
UnderPeak 15142
1200
1000
800
600
400
200
0
0
100
200
300
400
500
600
700
800
900

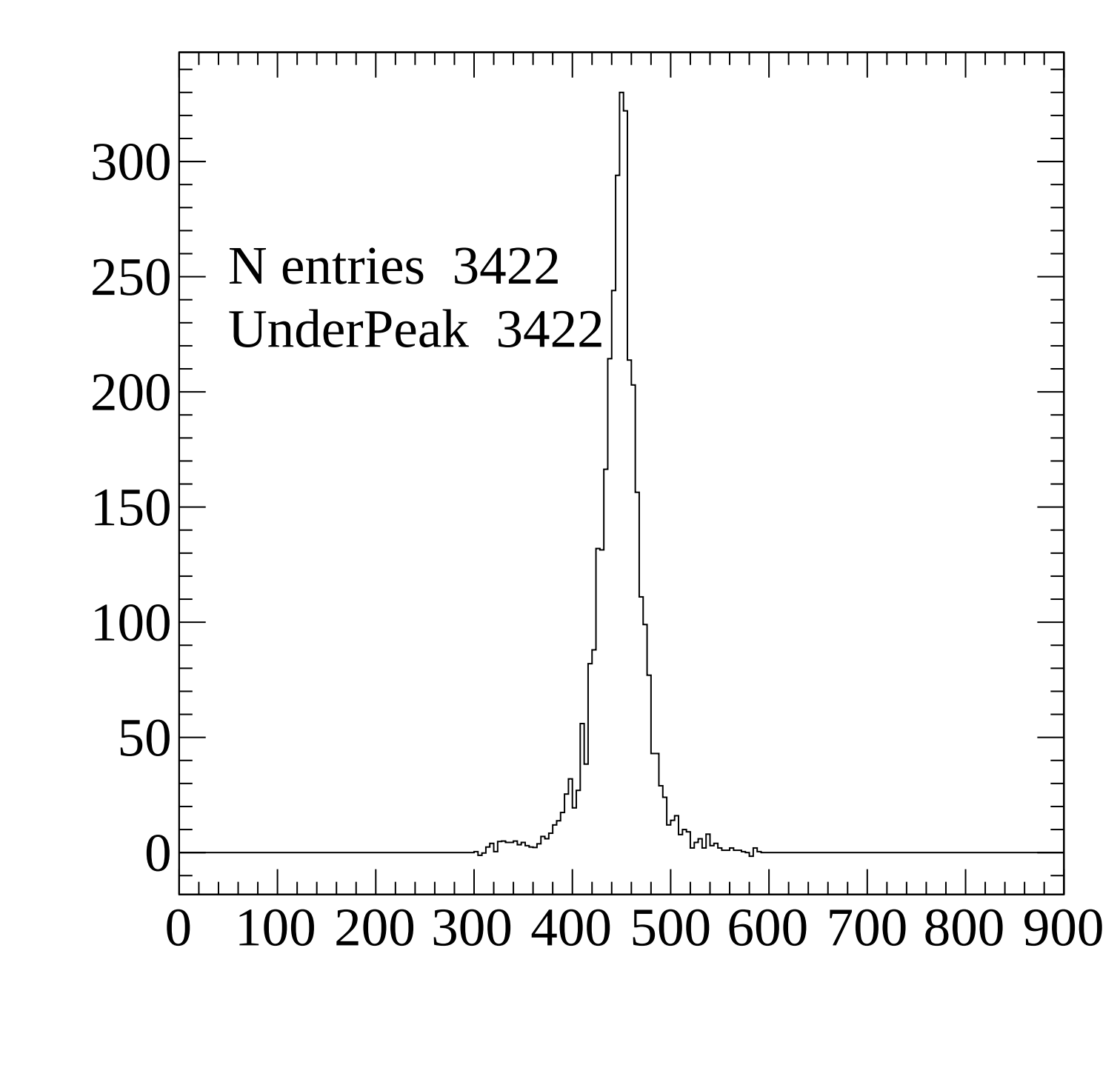

ECAL_gravTwoPhoton10ns3cmUnderPeak
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

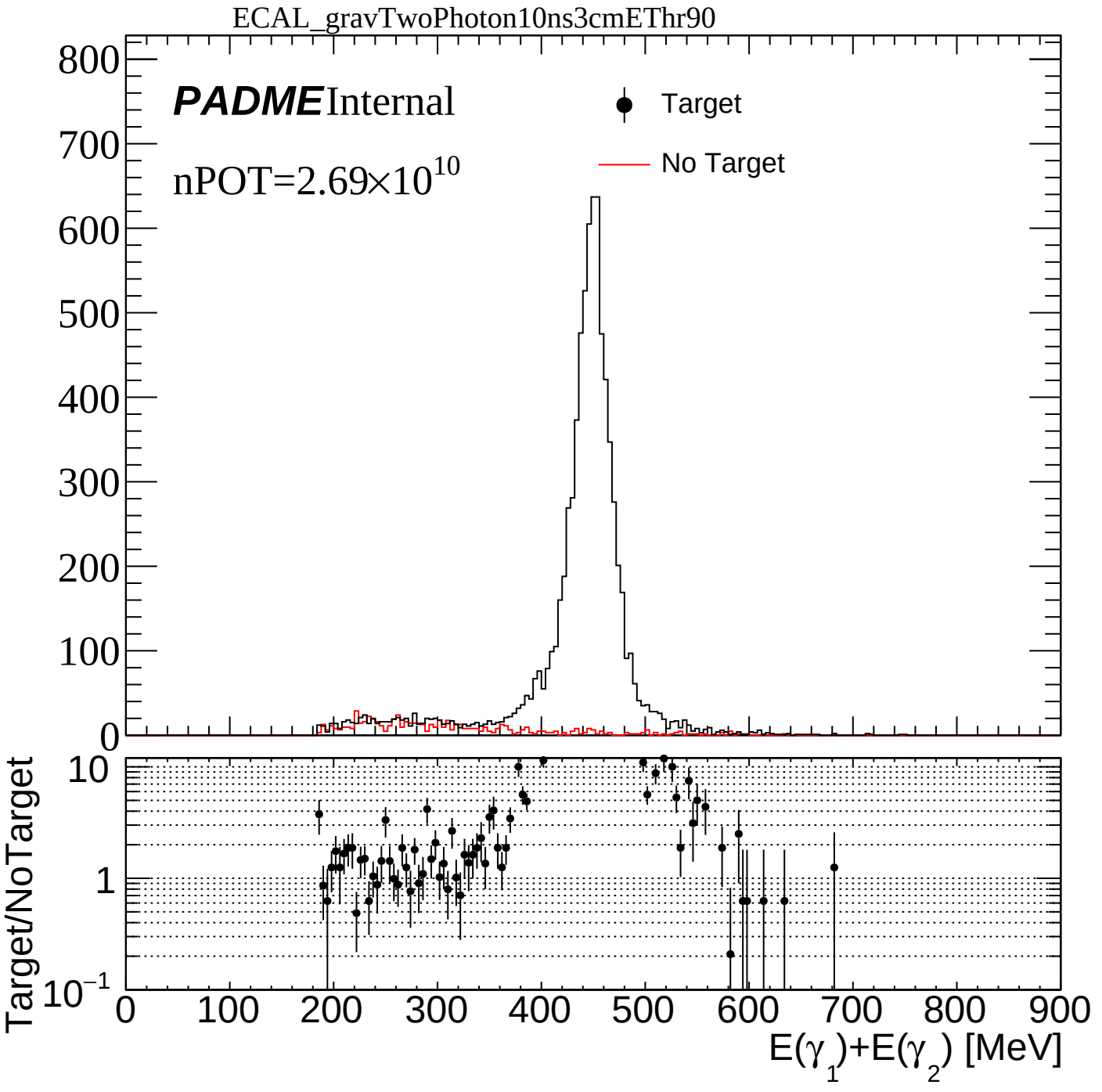

N entries 7266
UnderPeak 7266
600
500
400
300
200
100
0
0 100 200 300 400 500 600 700 800 900

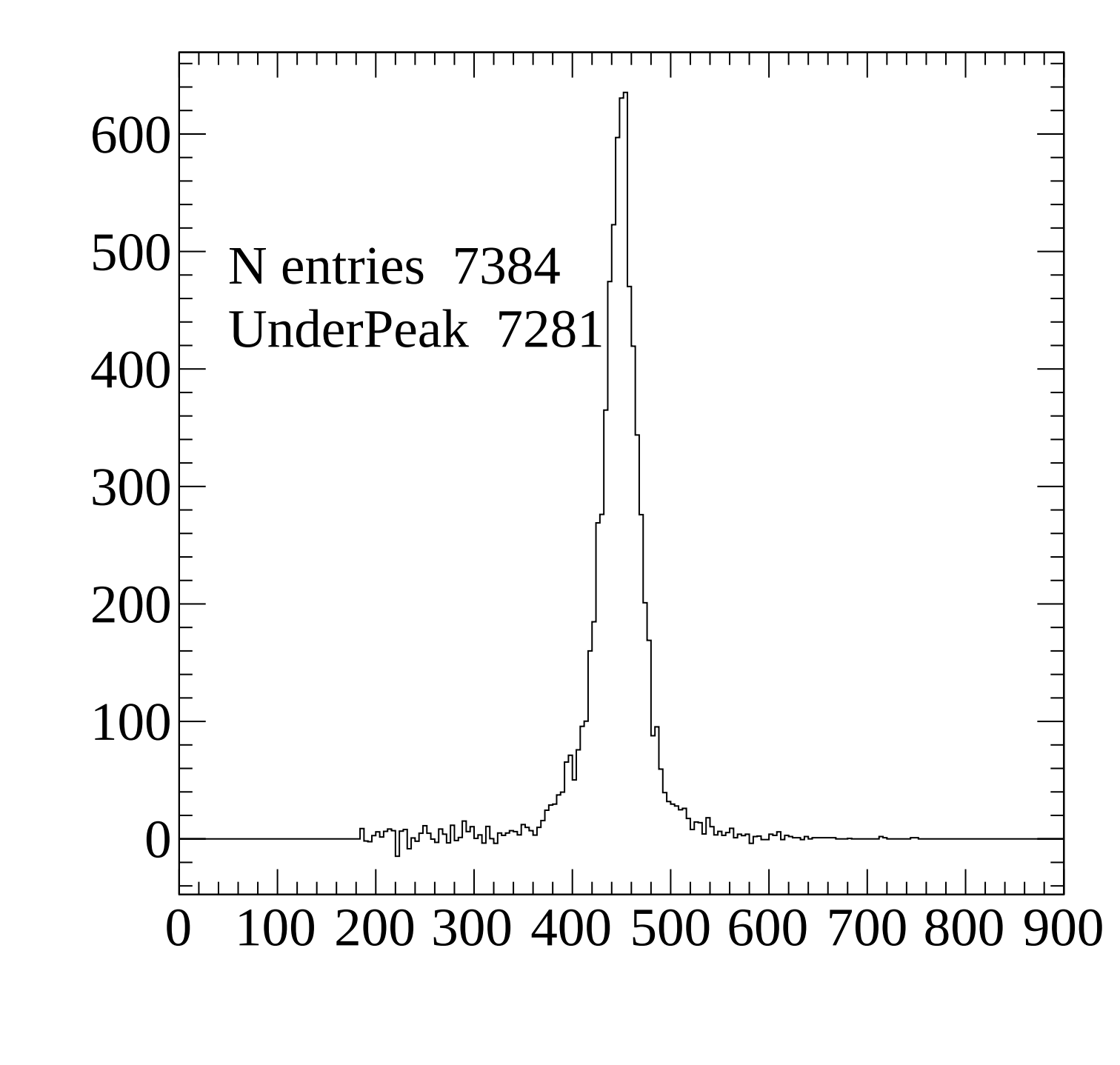

ECAL_gravTwoPhoton10ns3cmUnderPeakEThr90
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
Target/NoTarget
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

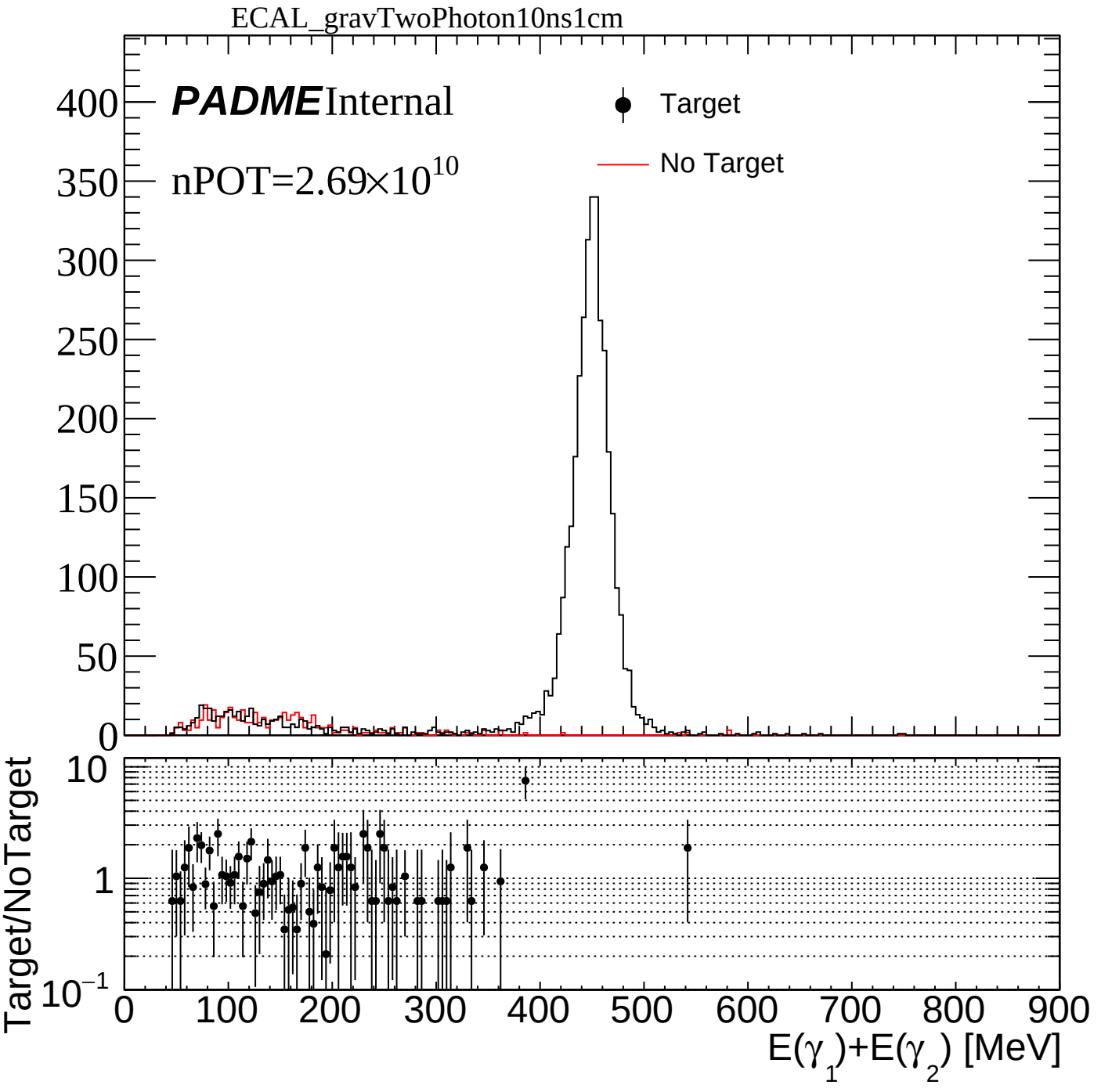

N entries 7254
UnderPeak 7254
600
500
400
300
200
100
0
0 100 200 300 400 500 600 700 800 900

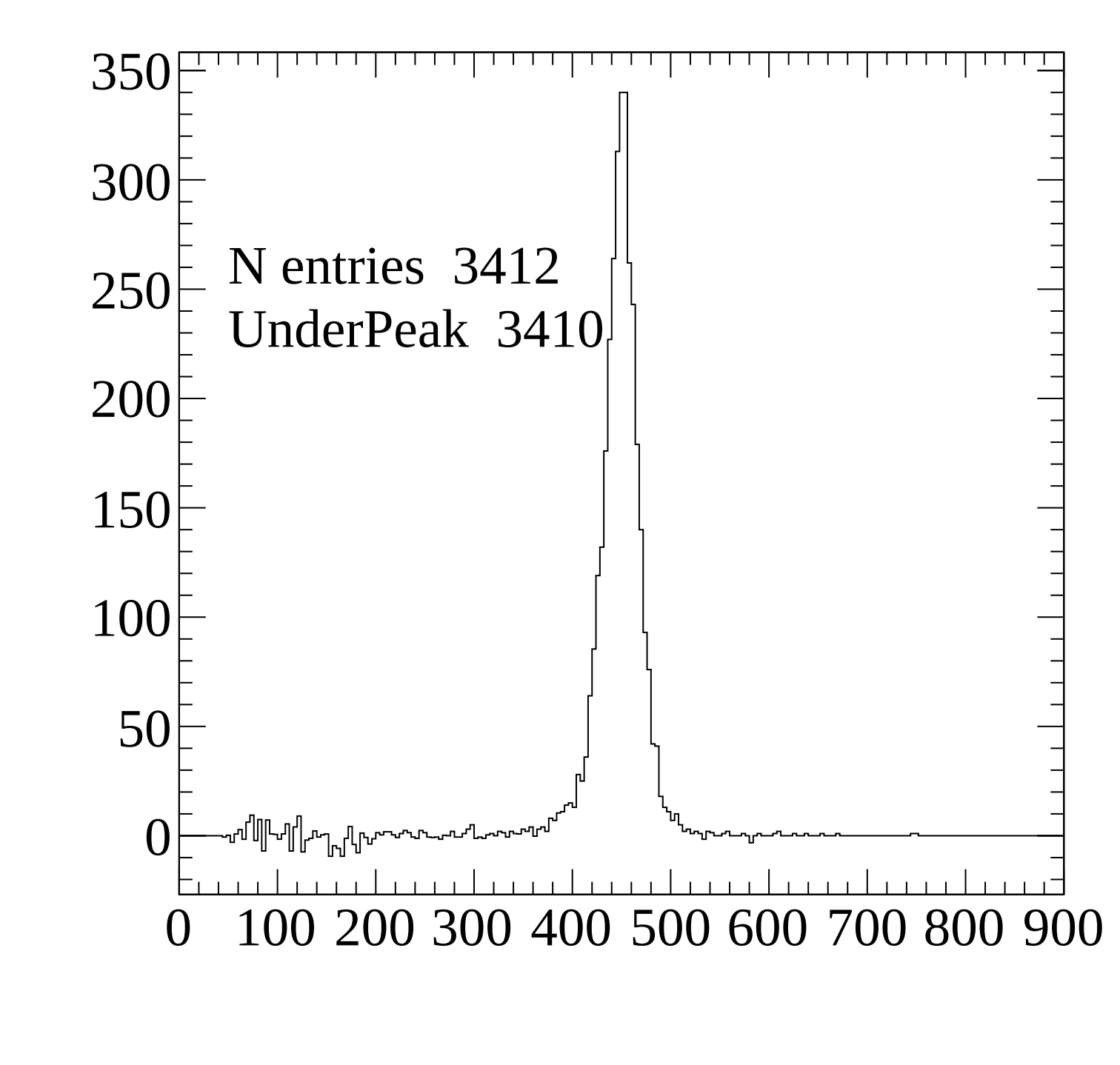

ECAL_gravTwoPhoton10ns3cmUnderPeakEThr90_FRY
PADME Internal
nPOT=2.69×10^10
Target
No Target
400
350
300
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

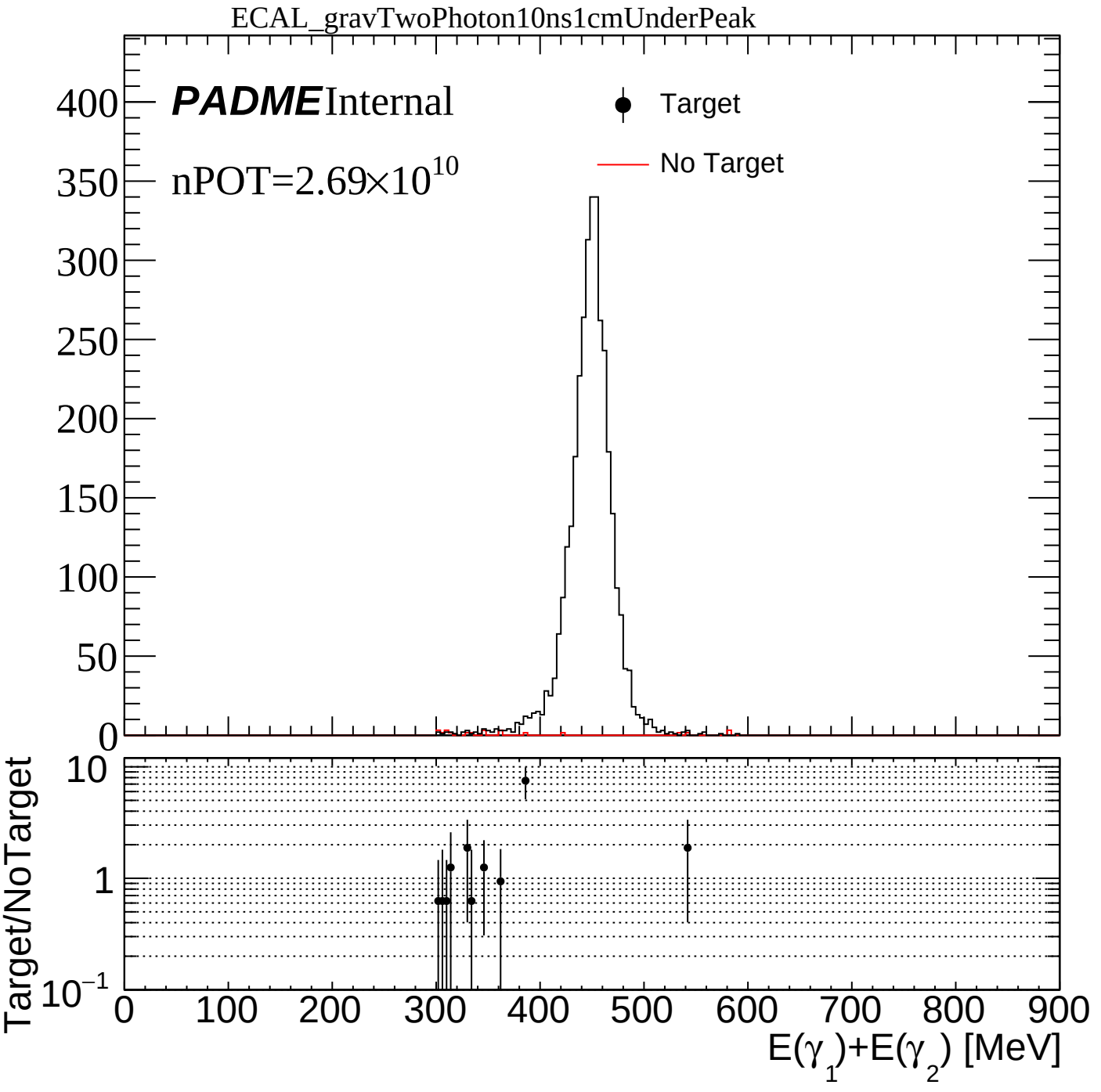

N entries 3422
UnderPeak 3422
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

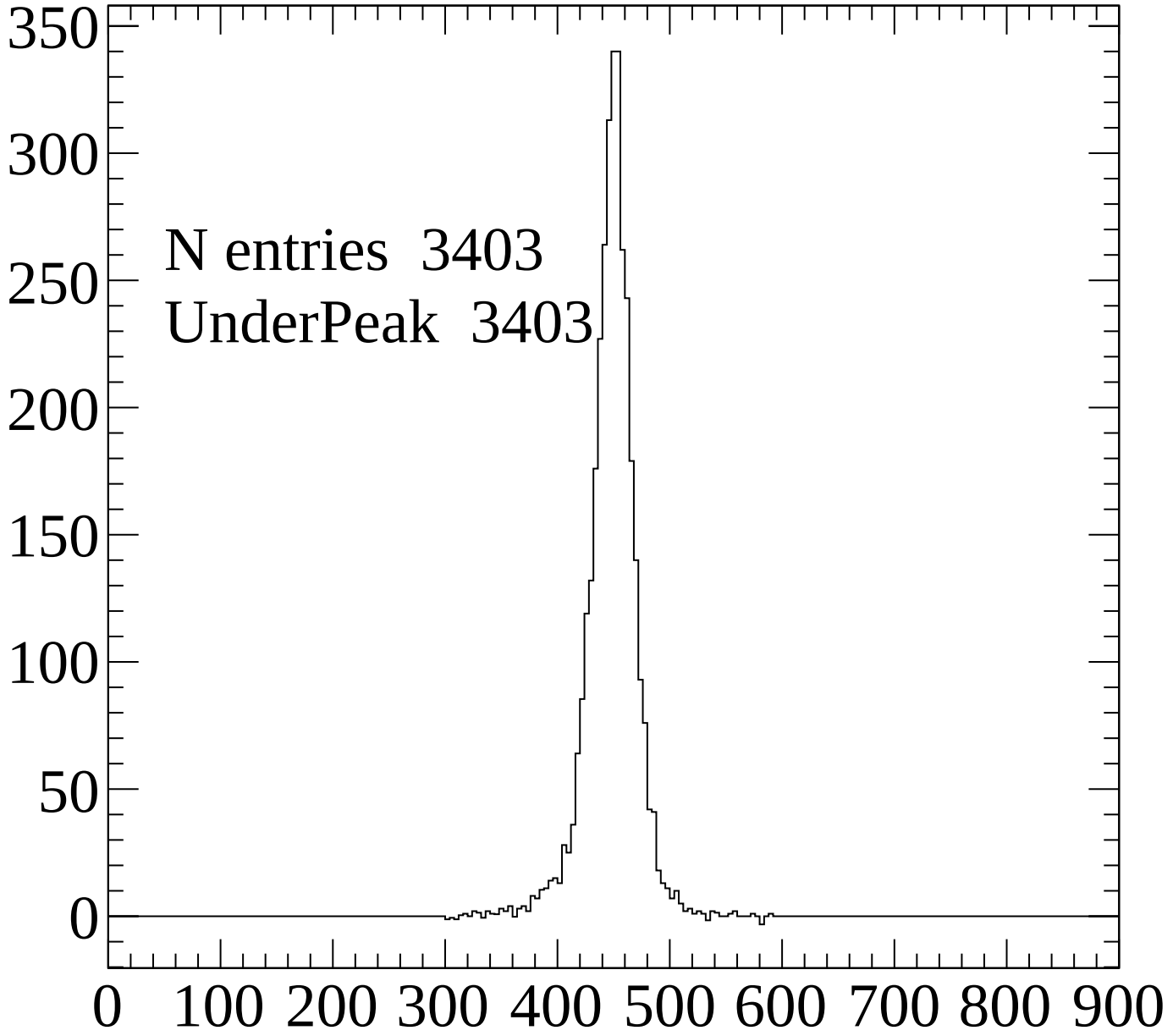

ECAL_gravTwoPhoton10ns3cmEThr90
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
Target/NoTarget
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

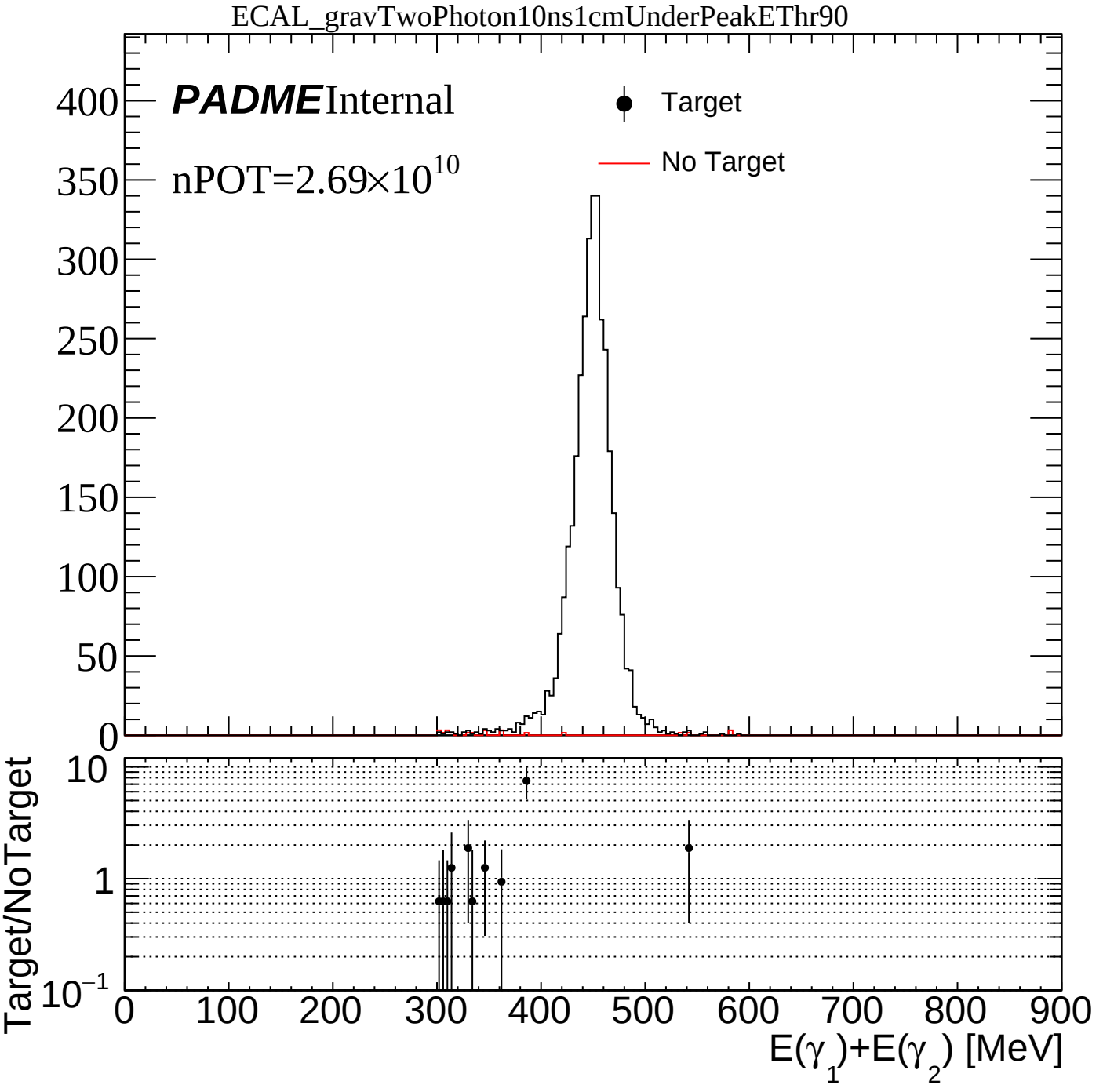

N entries 7384
UnderPeak 7281
600
500
400
300
200
100
0
0 100 200 300 400 500 600 700 800 900

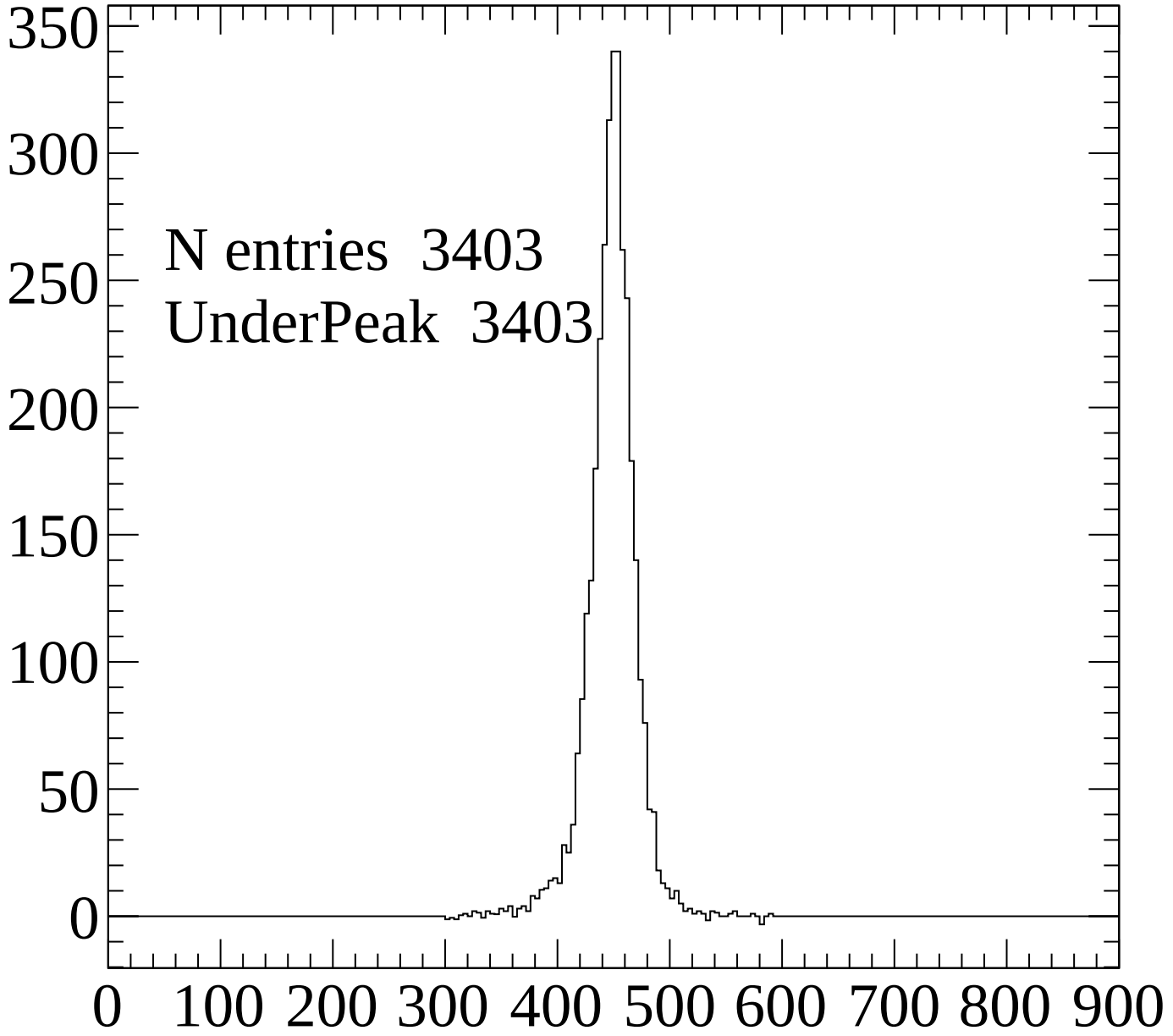

ECAL_gravTwoPhoton10ns1cm
PADME Internal
nPOT=2.69×10^10
Target
No Target
400
350
300
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

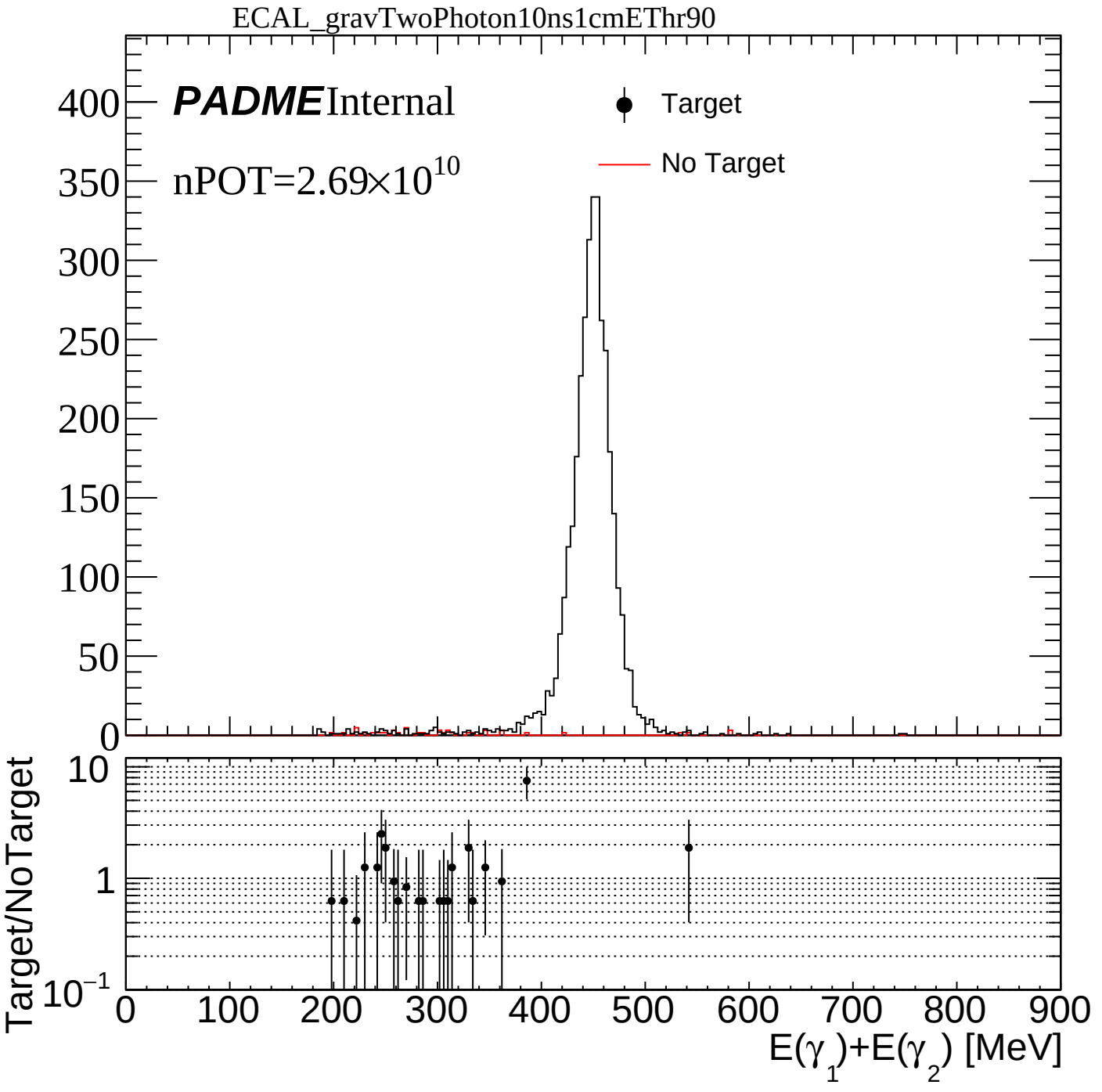

N entries 3412
UnderPeak 3410
350
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

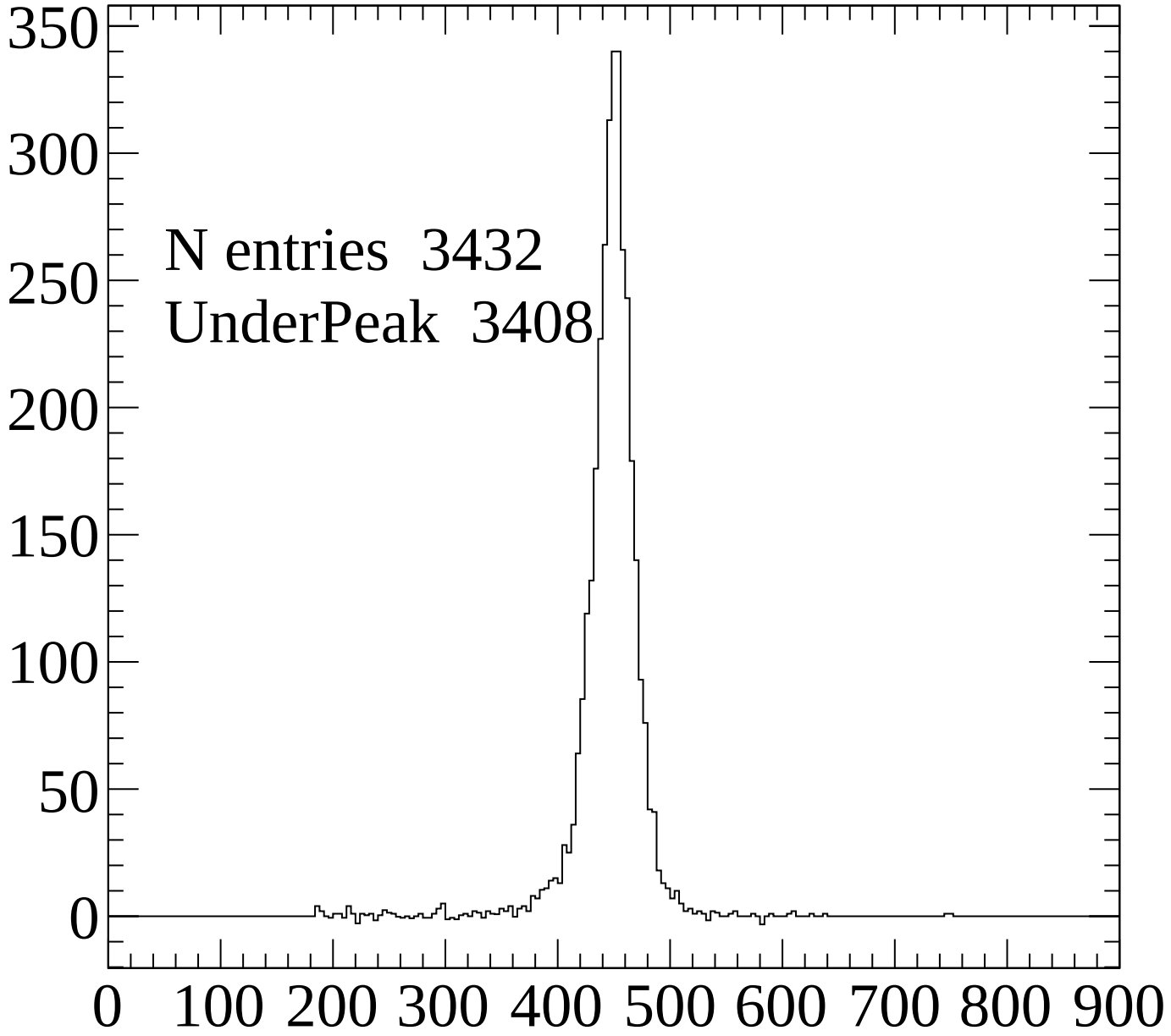

ECAL_gravTwoPhoton10ns1cmUnderPeak
PADME Internal
nPOT=2.69×10^10
Target
No Target
400
350
300
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

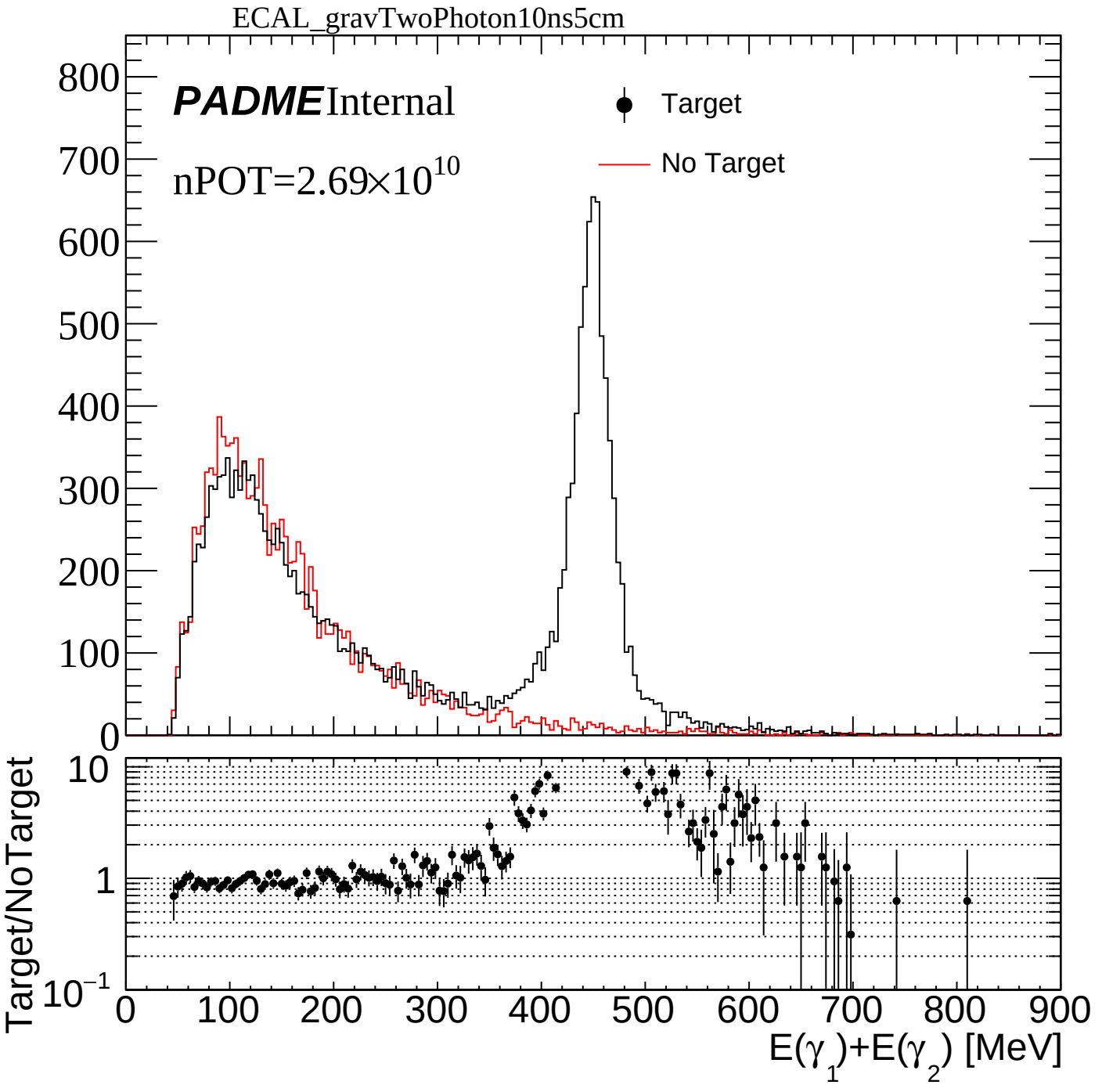

N entries 3403
UnderPeak 3403
350
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

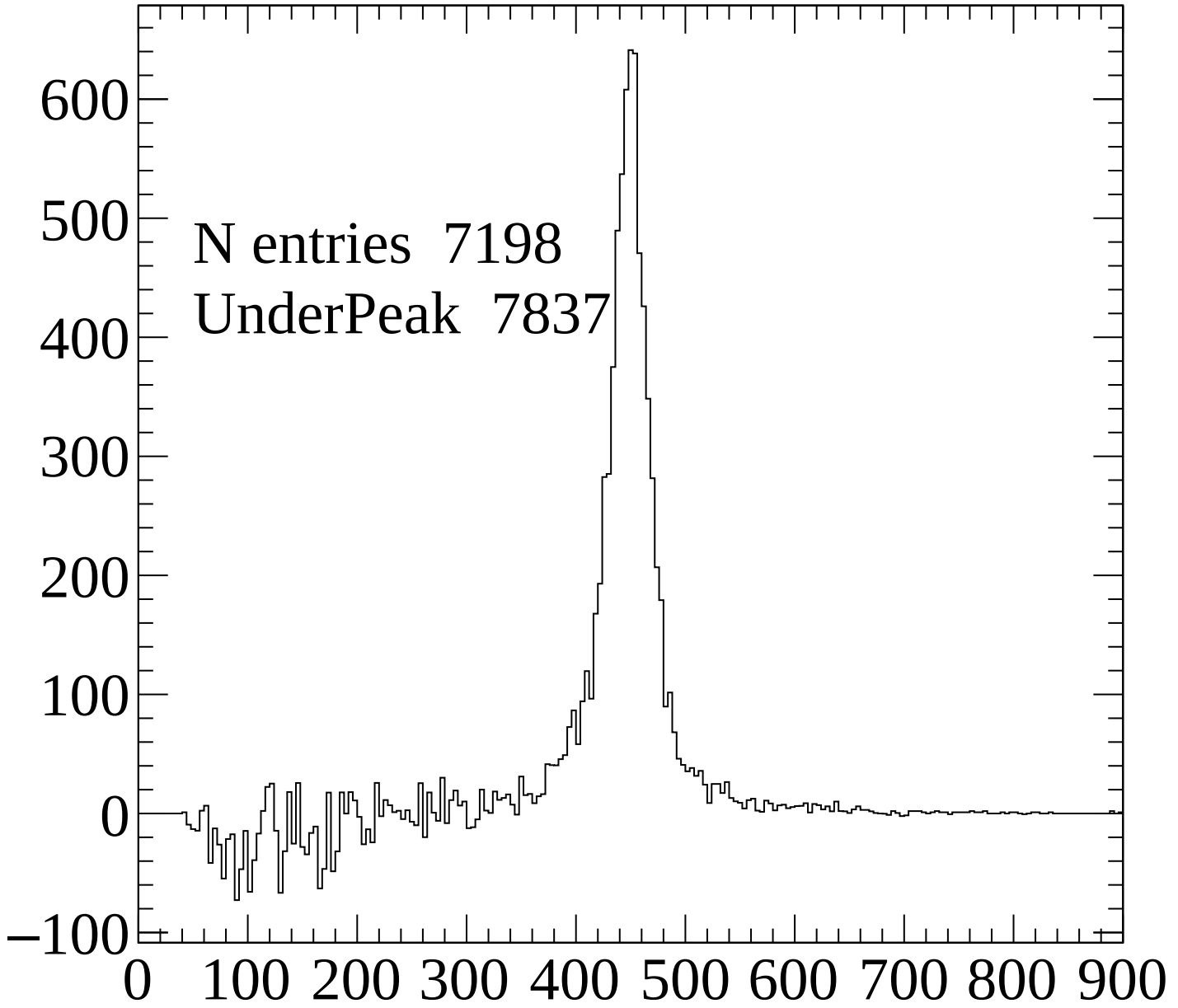

ECAL_gravTwoPhoton10ns1cmUnderPeakEThr90
PADME Internal
nPOT=2.69×10^10
Target
No Target
400
350
300
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

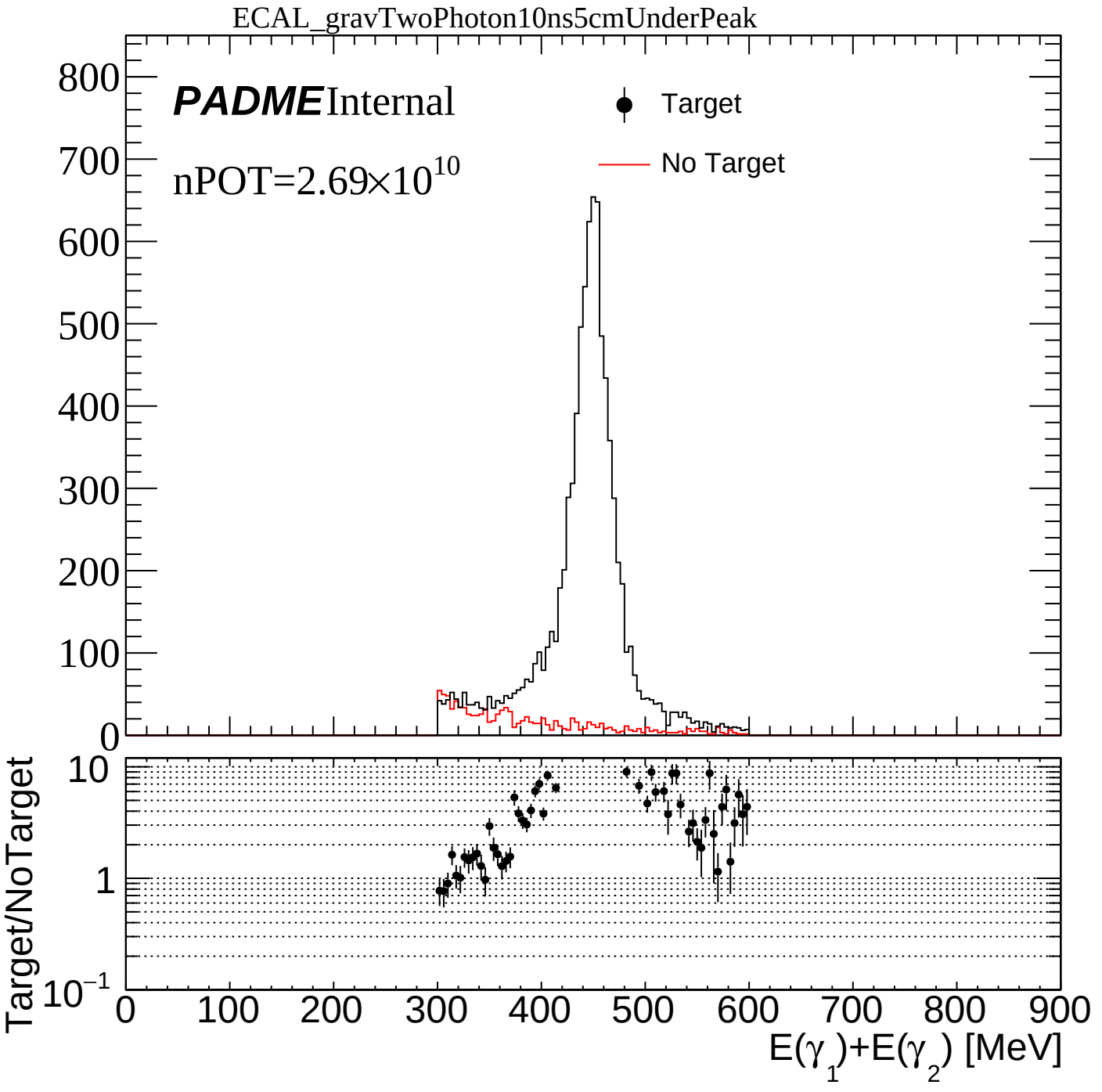

N entries 3403
UnderPeak 3403
350
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

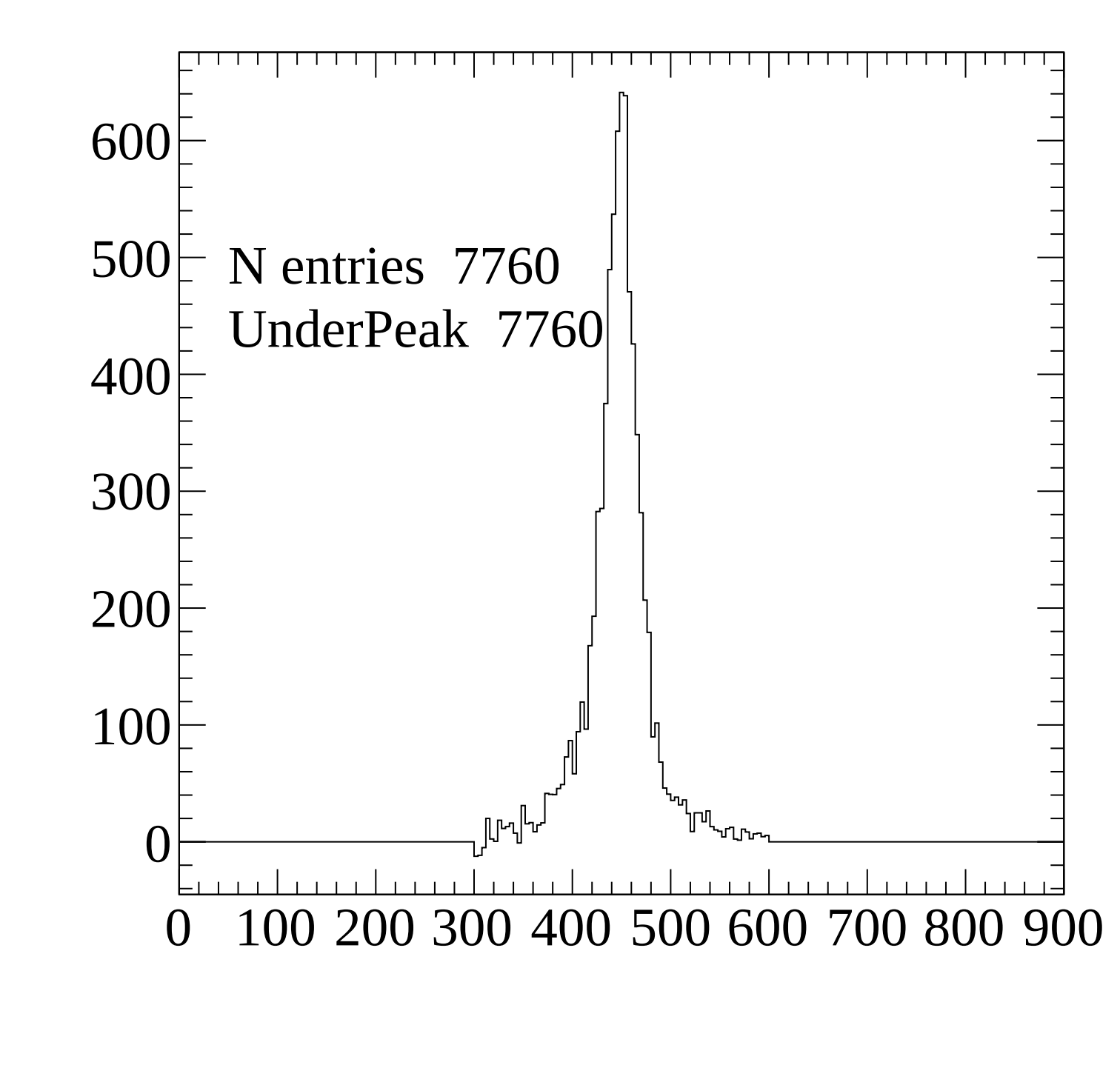

ECAL_gravTwoPhoton10ns1cmEThr90
PADME Internal
nPOT=2.69×10^10
Target
No Target
400
350
300
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

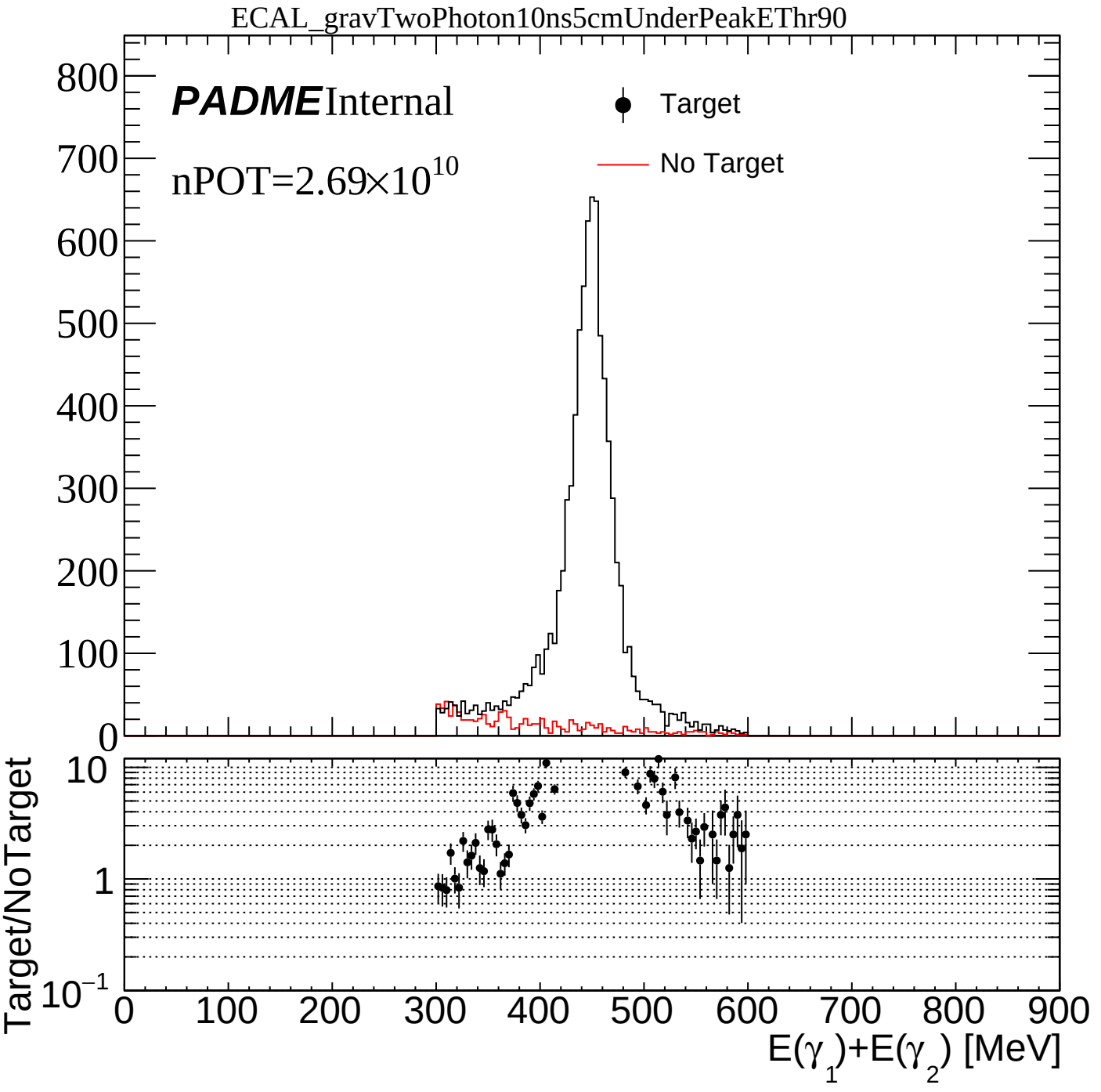

N entries 3432
UnderPeak 3408
350
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

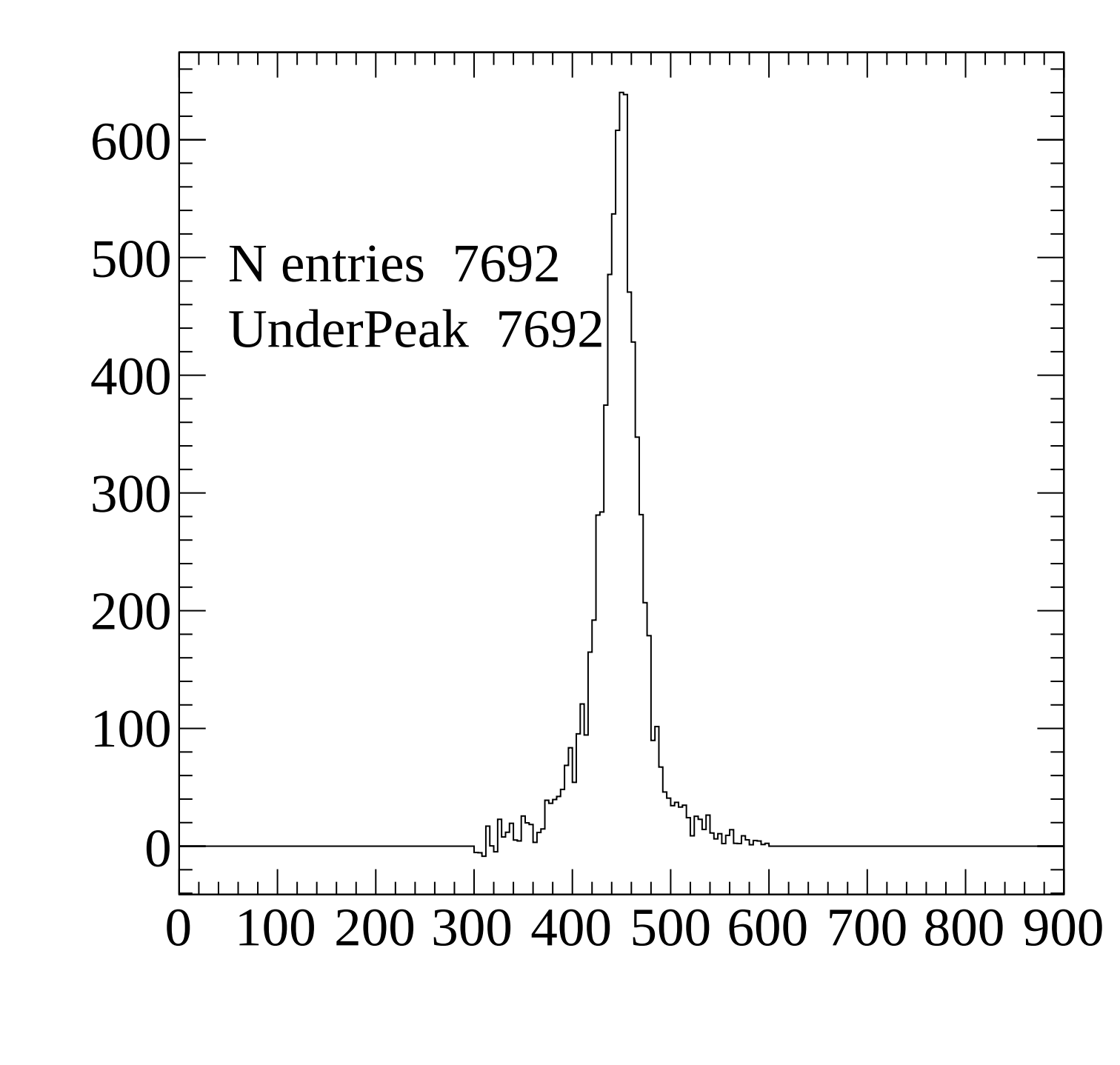

ECAL_gravTwoPhoton10ns5cm
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ_1)+E(γ_2) [MeV]

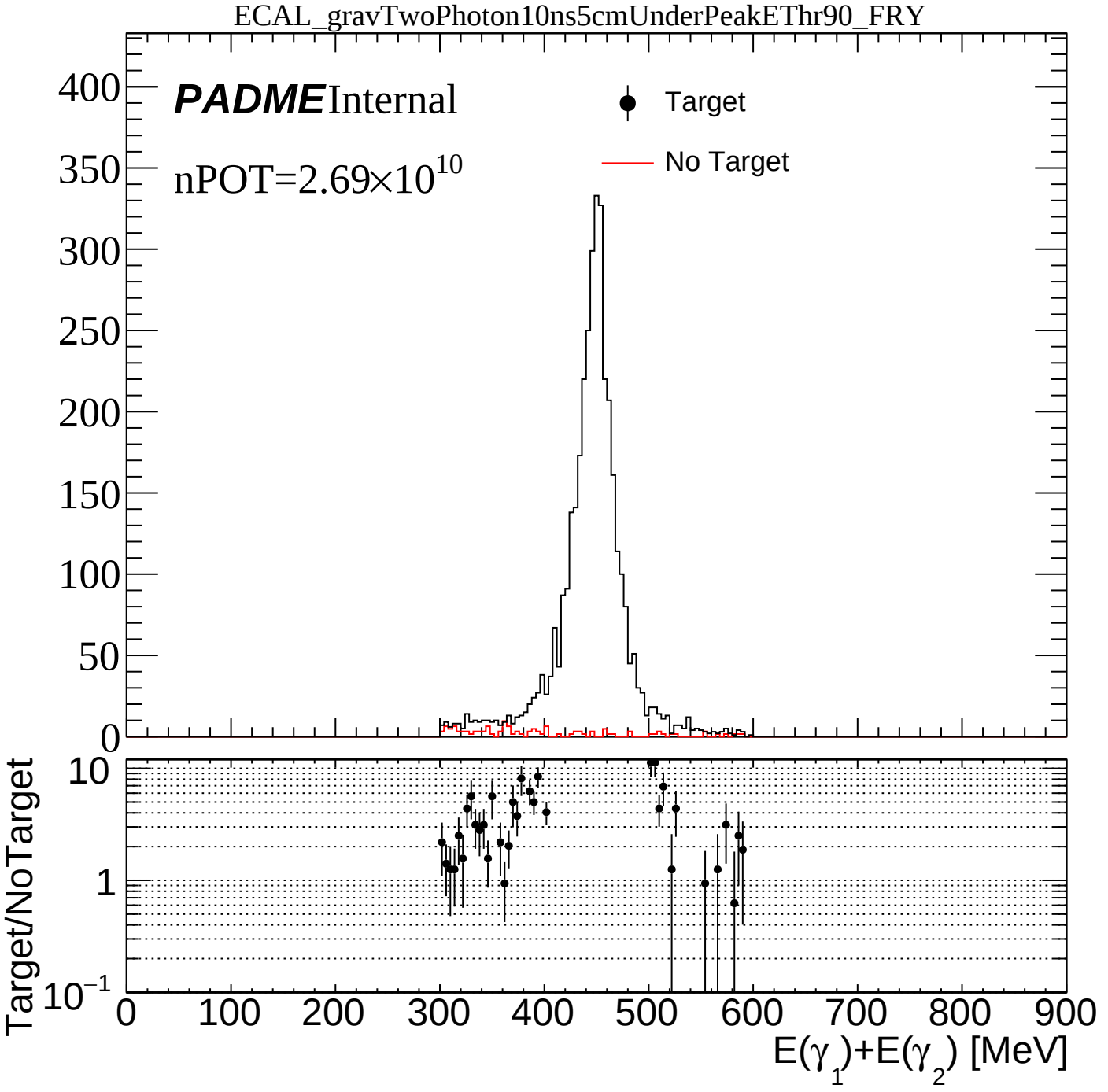

N entries 7198
UnderPeak 7837
600
500
400
300
200
100
0
−100
0
100
200
300
400
500
600
700
800
900

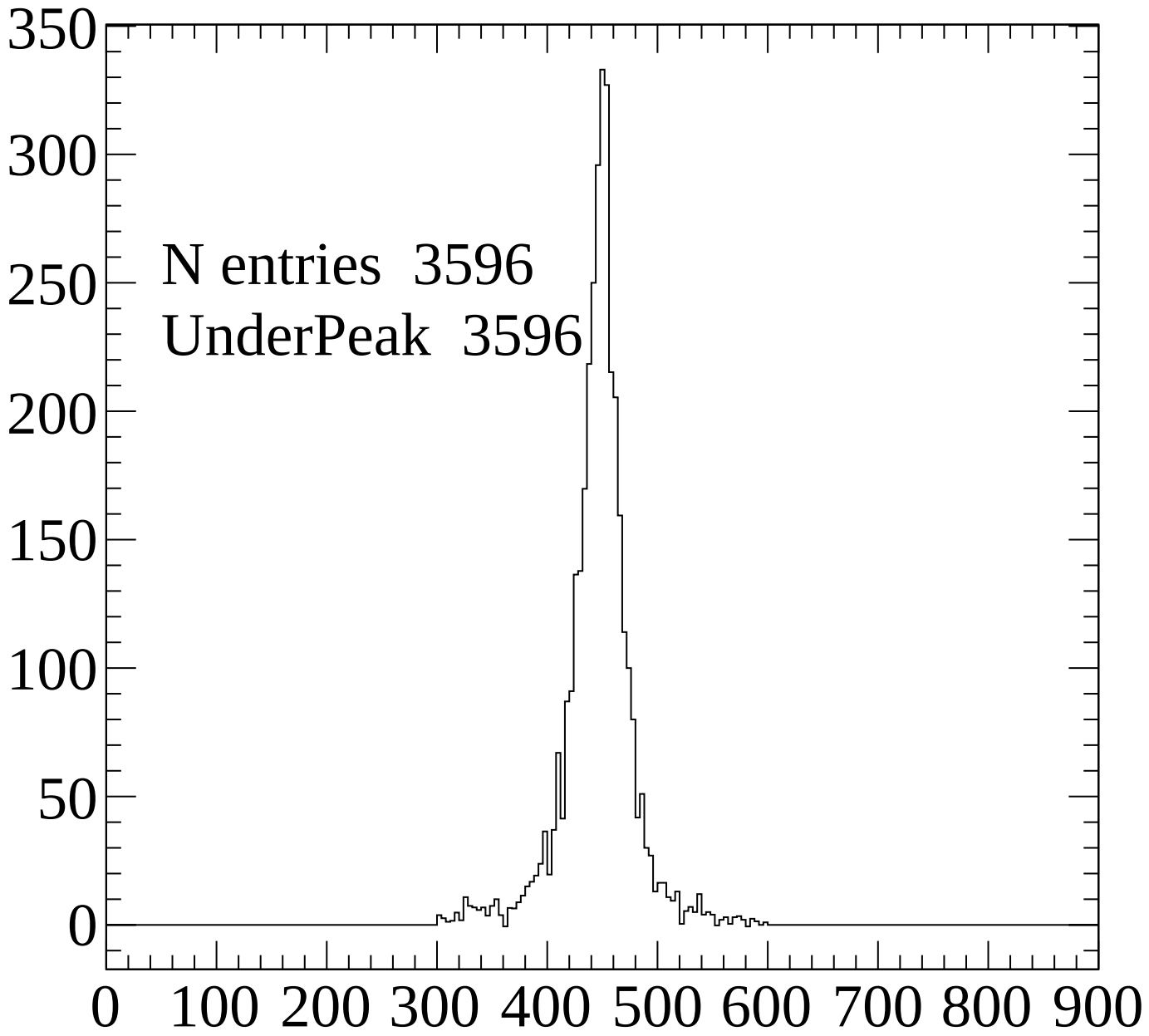

ECAL_gravTwoPhoton10ns5cmUnderPeak
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
Target/NoTarget
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

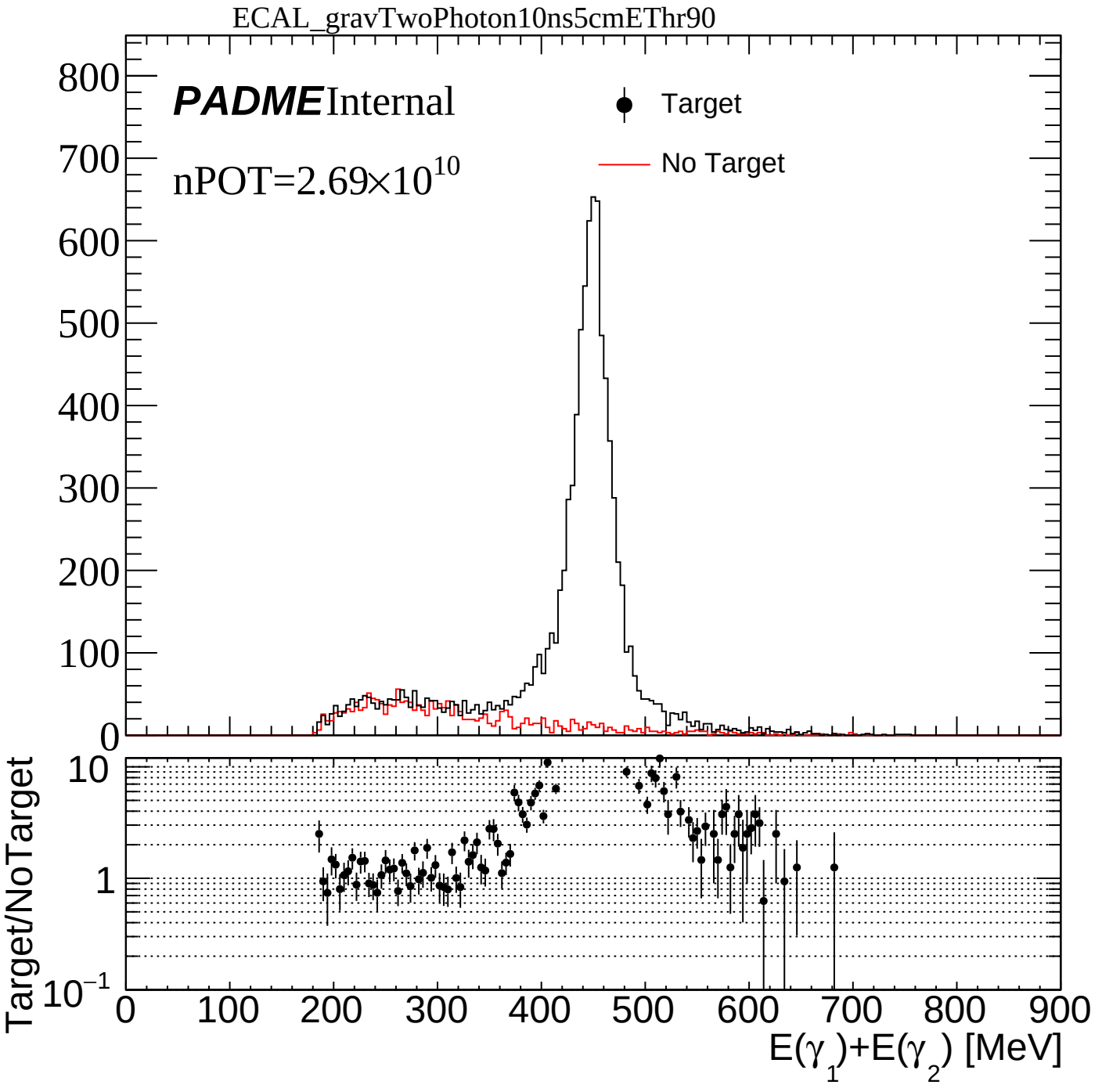

N entries 7760
UnderPeak 7760
600
500
400
300
200
100
0
0 100 200 300 400 500 600 700 800 900

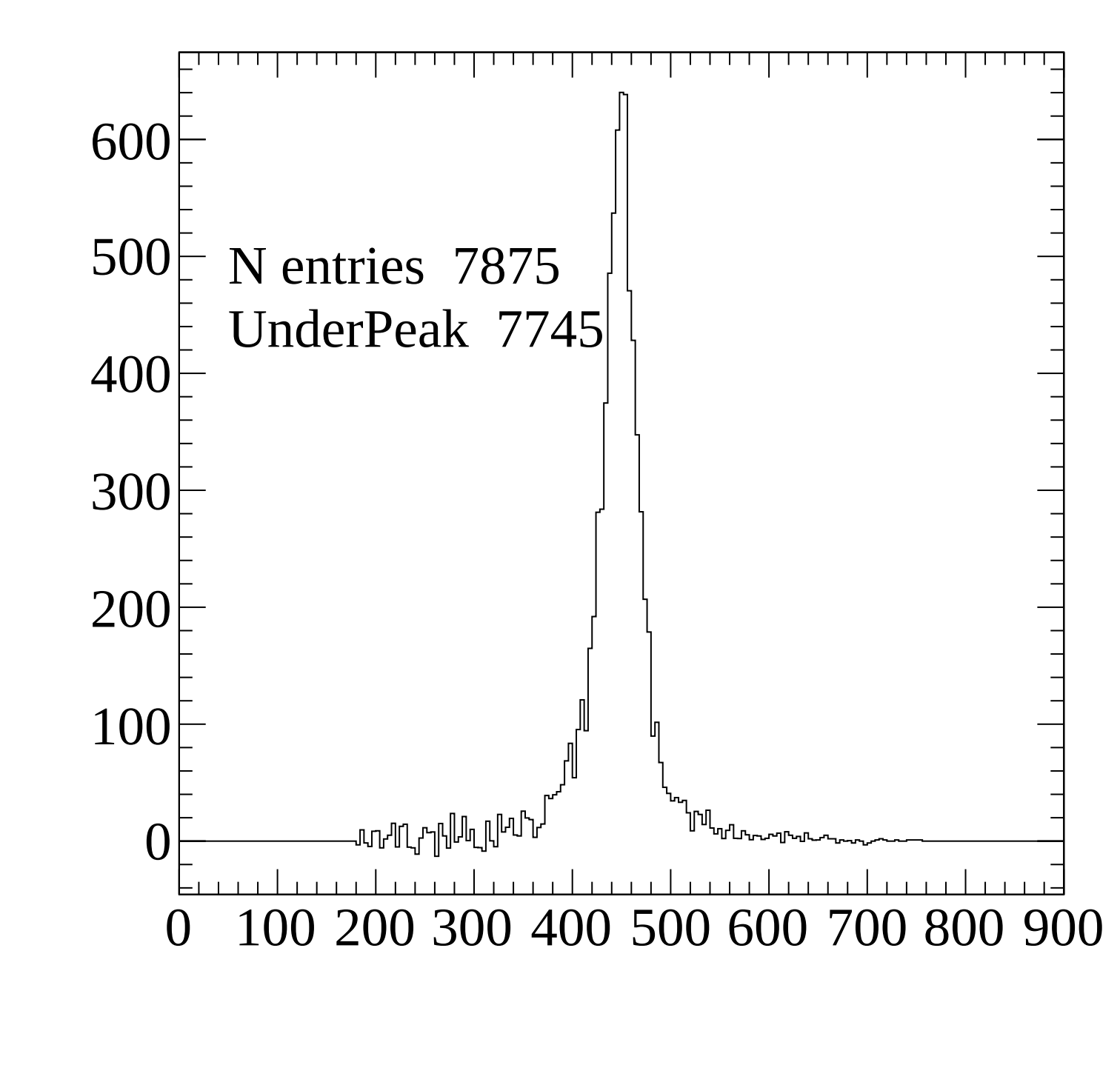

ECAL_gravTwoPhoton10ns5cmUnderPeakEThr90
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

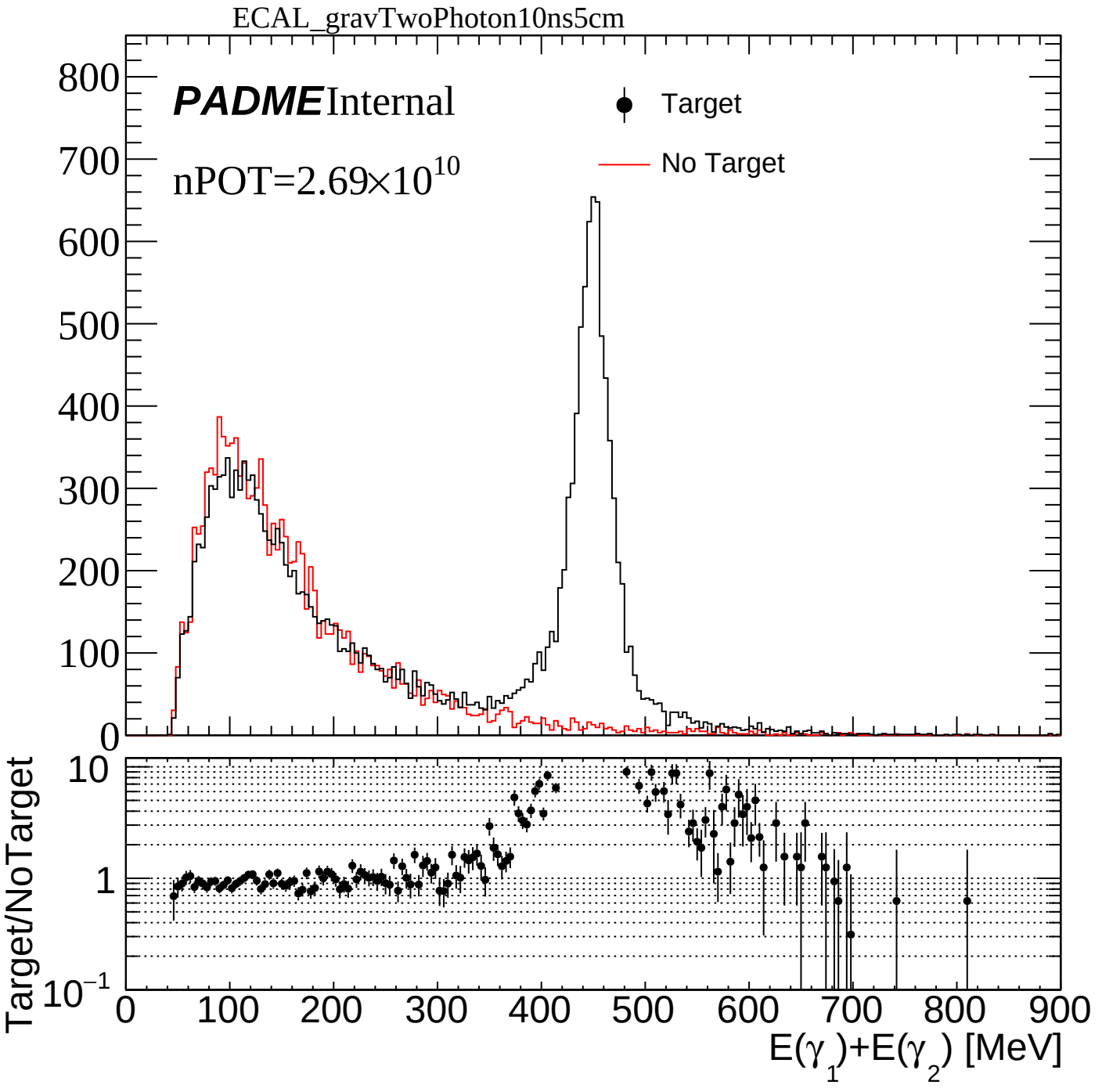

N entries 7692
UnderPeak 7692
600
500
400
300
200
100
0
0 100 200 300 400 500 600 700 800 900

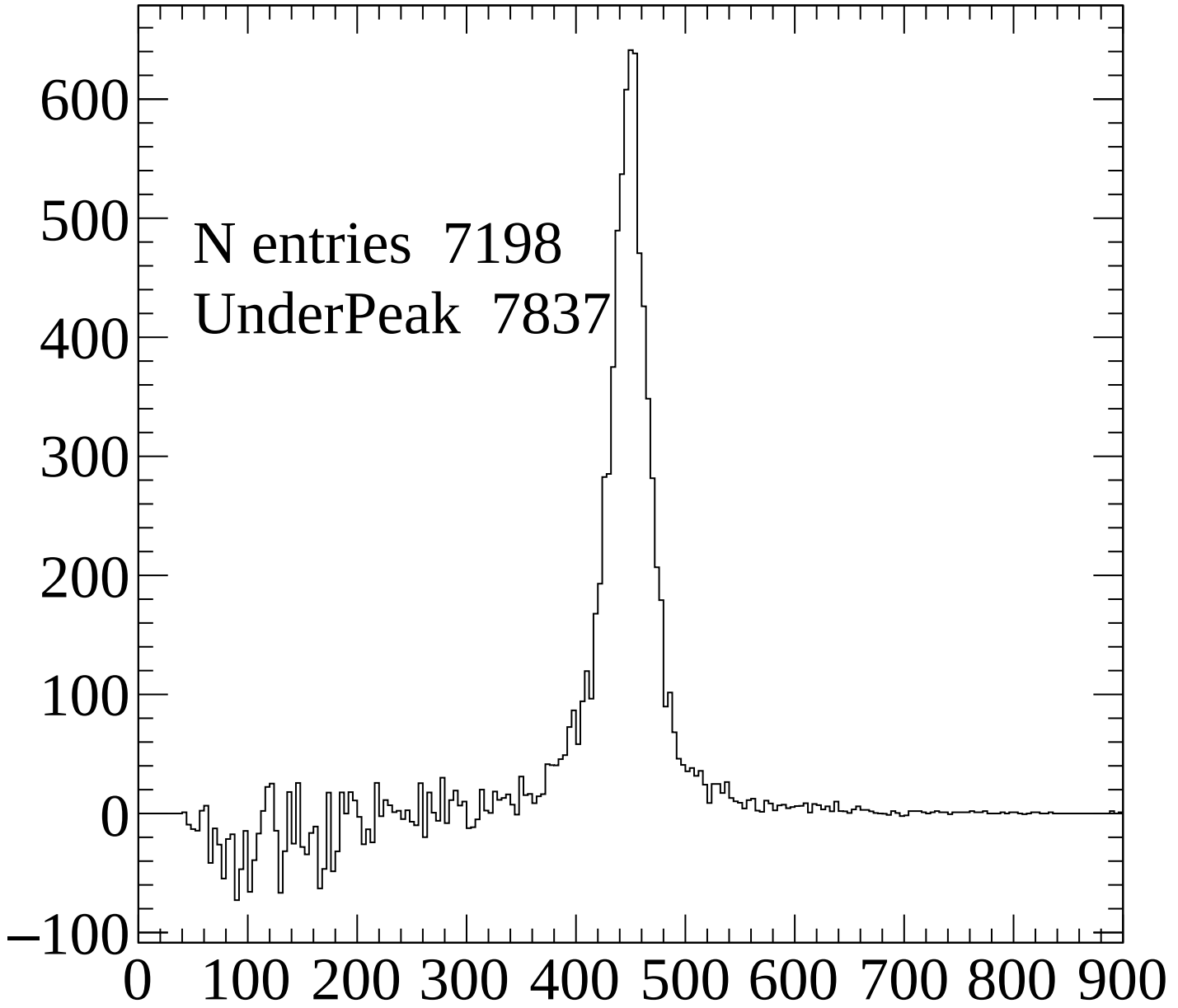

ECAL_gravTwoPhoton10ns5cmUnderPeakEThr90_FRY
PADME Internal
nPOT=2.69×10^10
Target
No Target
400
350
300
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ_1)+E(γ_2) [MeV]

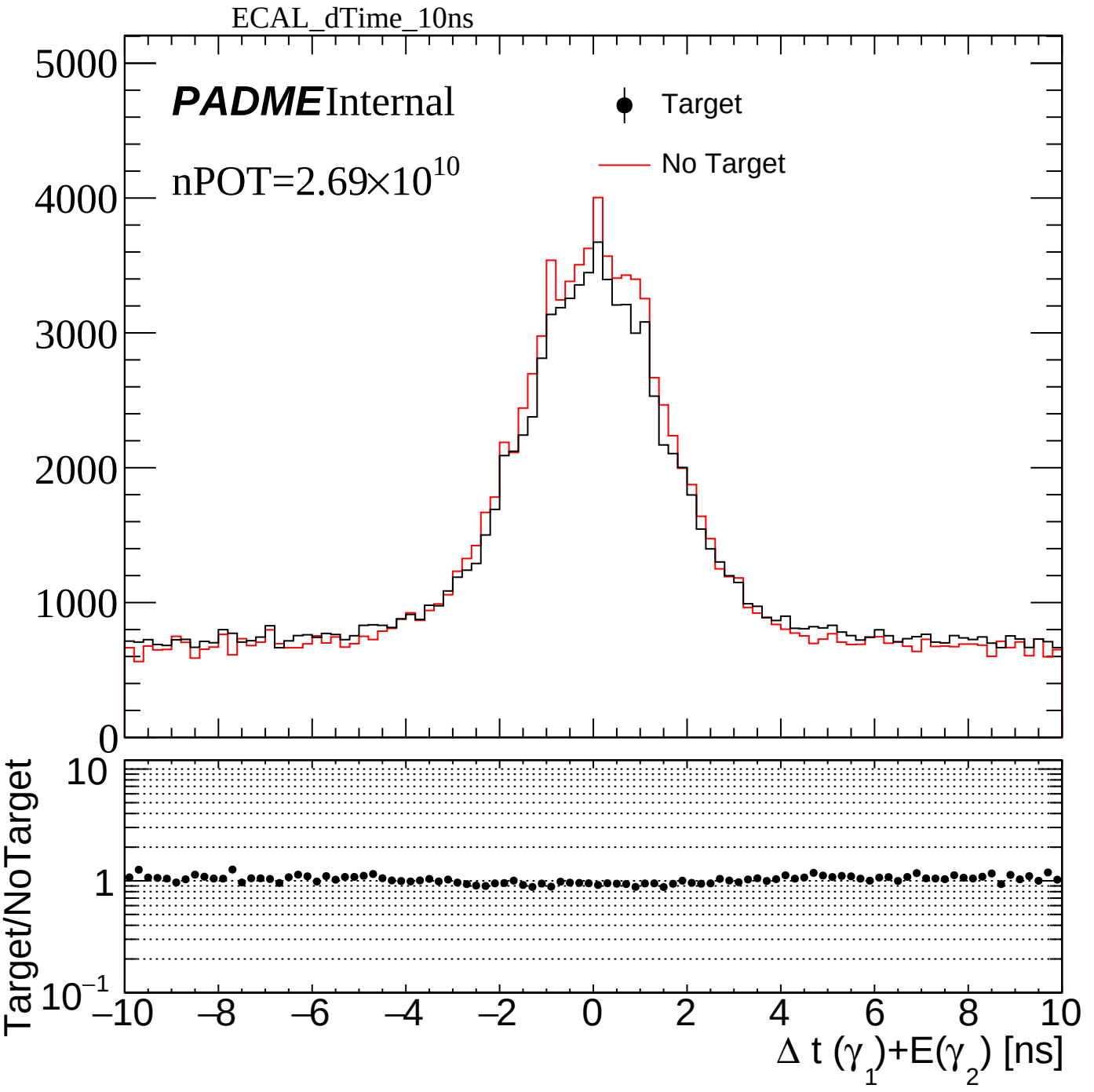

N entries 3596
UnderPeak 3596
350
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

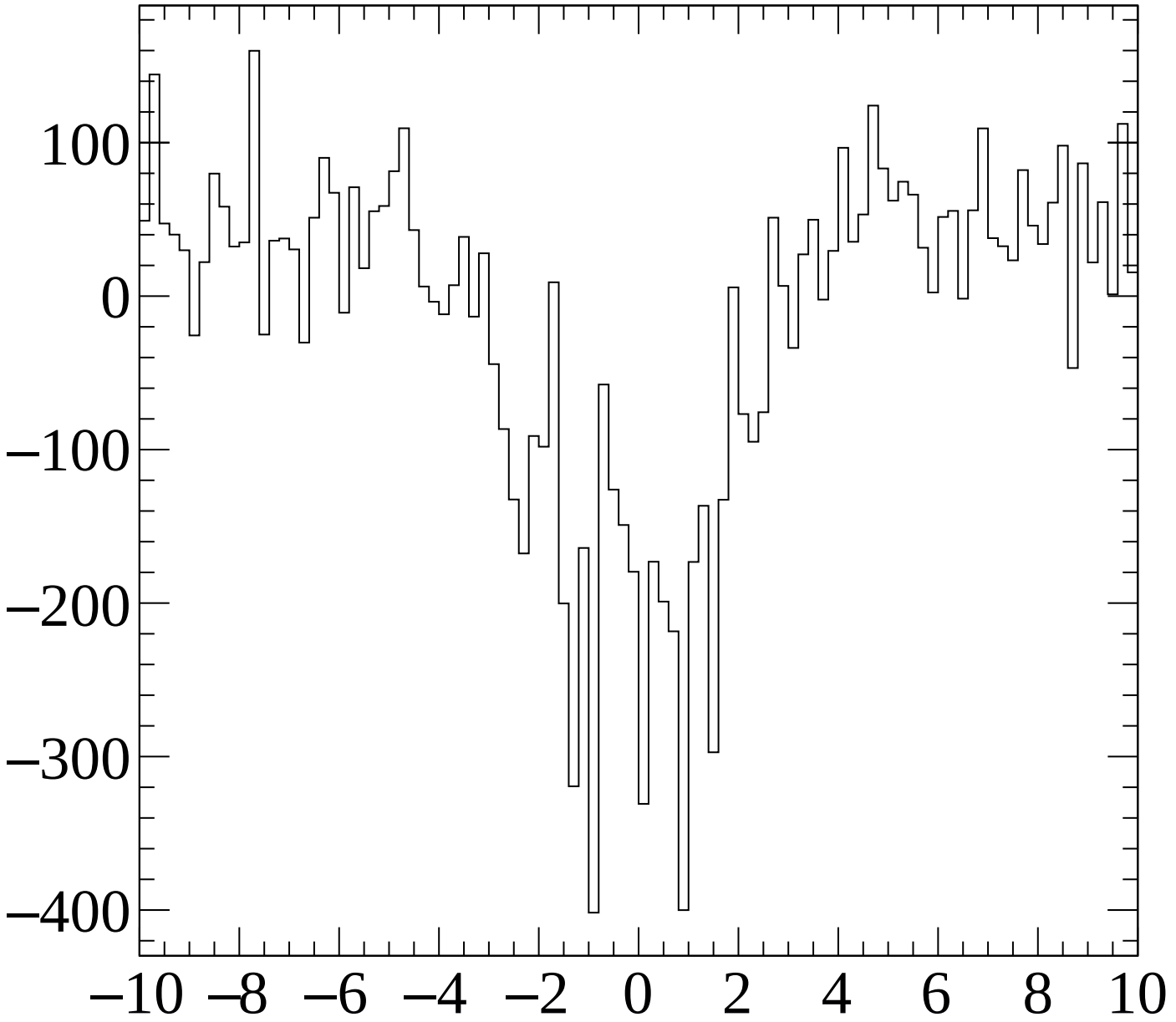

ECAL_gravTwoPhoton10ns5cmEThr90
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
Target/NoTarget
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

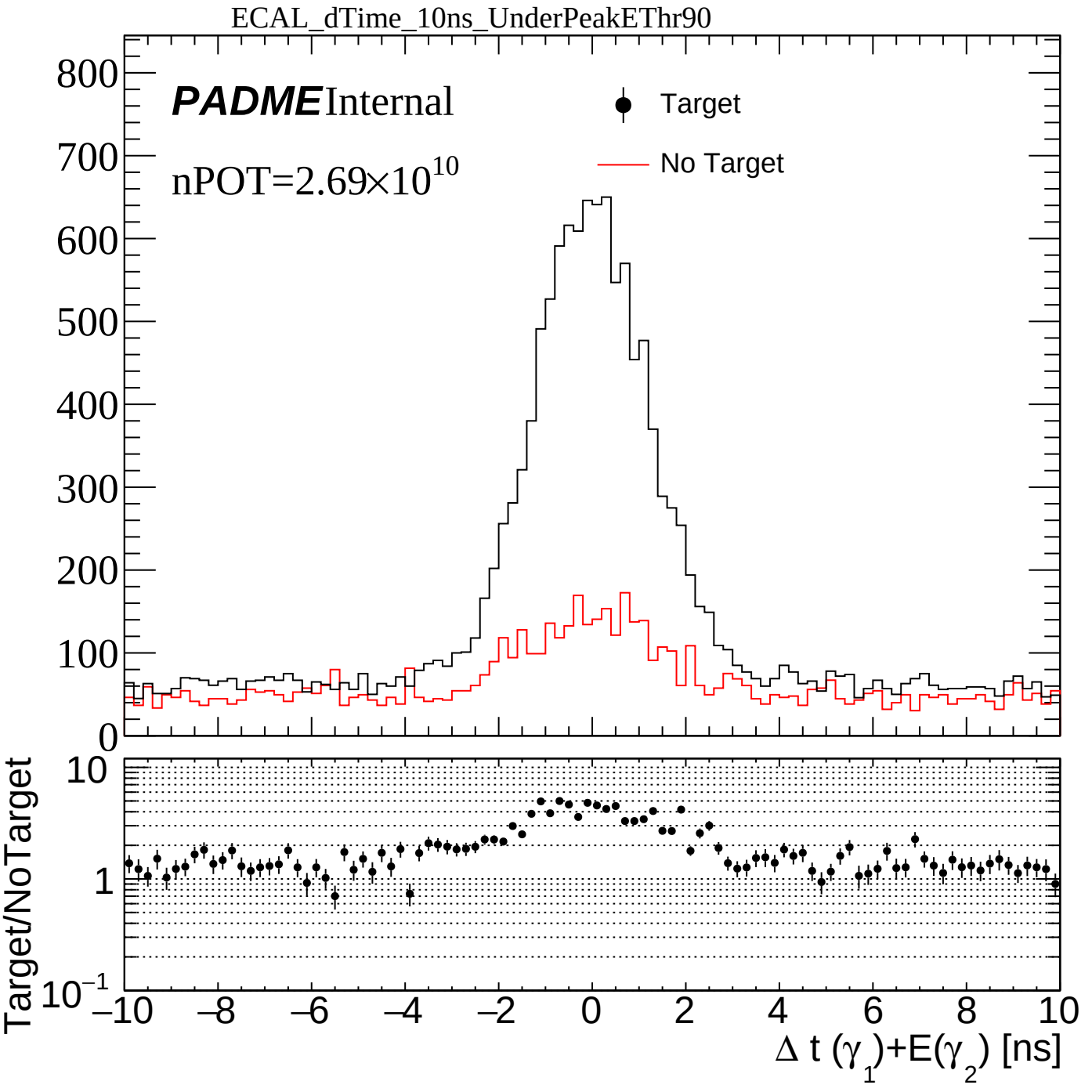

N entries 7875
UnderPeak 7745
600
500
400
300
200
100
0
0 100 200 300 400 500 600 700 800 900

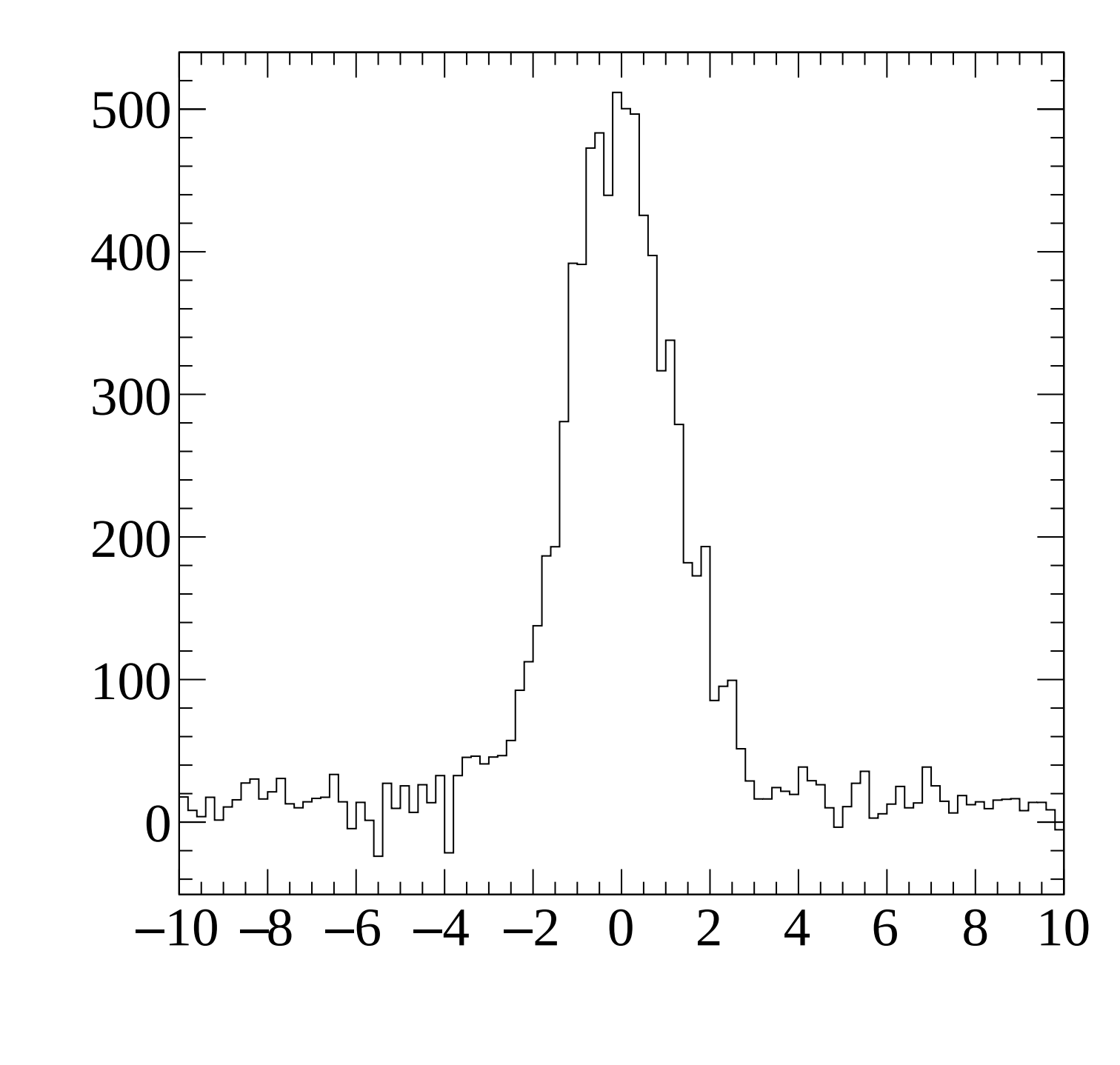

ECAL_gravTwoPhoton10ns5cm
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ_1)+E(γ_2) [MeV]

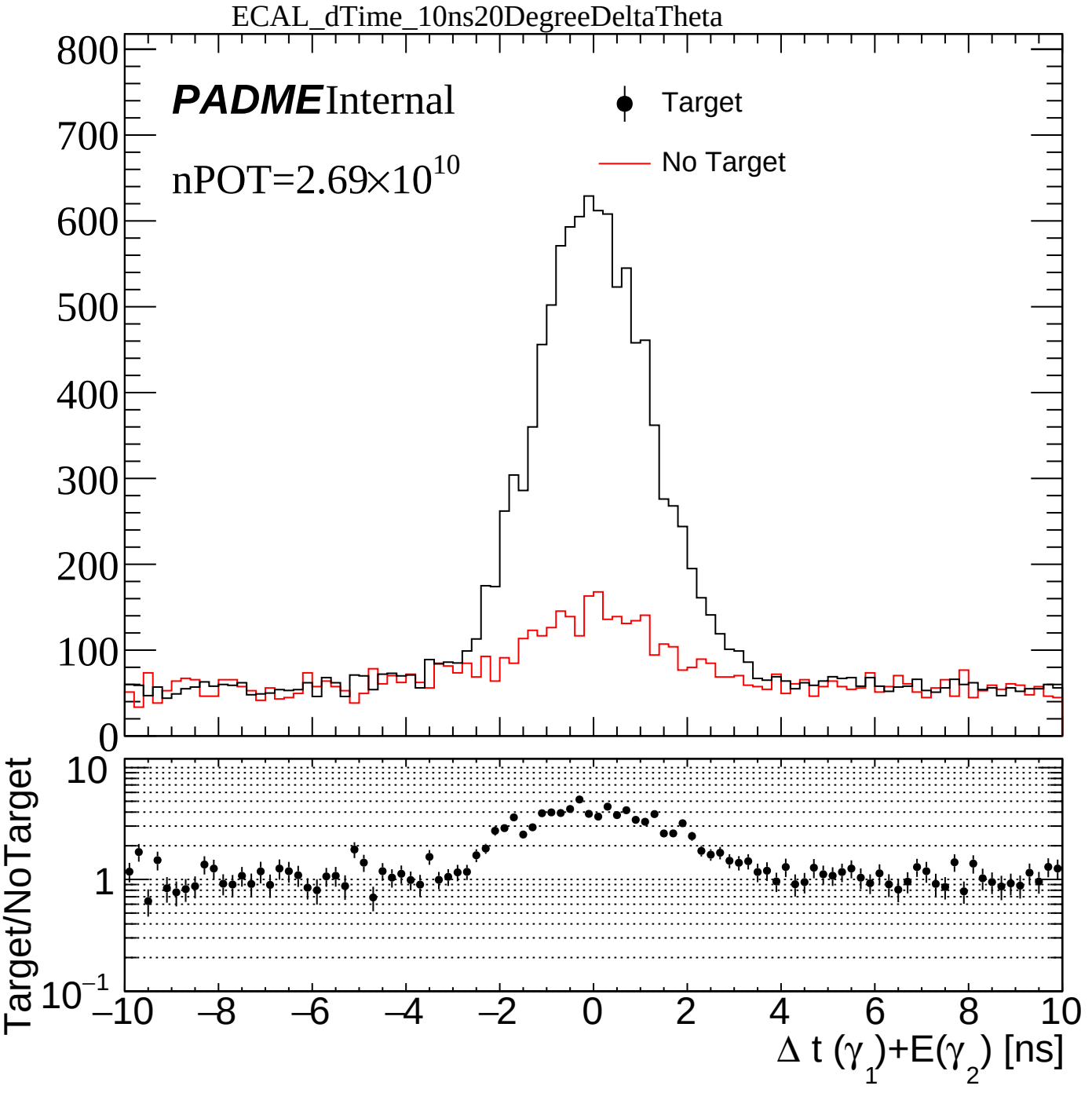

N entries 7198
UnderPeak 7837
600
500
400
300
200
100
0
−100
0
100
200
300
400
500
600
700
800
900

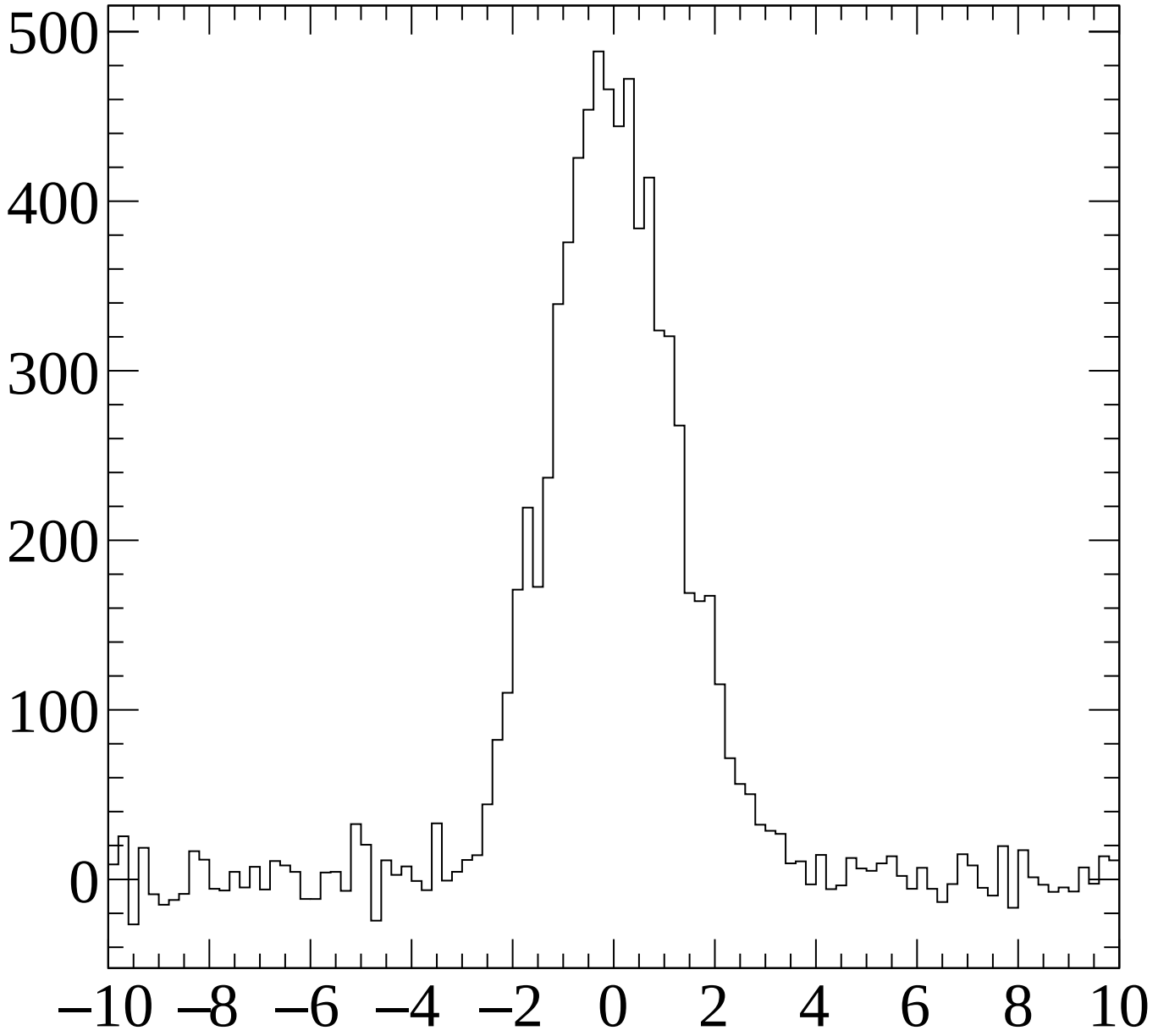

ECAL_dTime_10ns
PADME Internal
nPOT=2.69×10^10
Target
No Target
5000
4000
3000
2000
1000
0
Target/NoTarget
10
1
10^−1
–10
–8
–6
–4
–2
0
2
4
6
8
10
Δ t (γ1)+E(γ2) [ns]

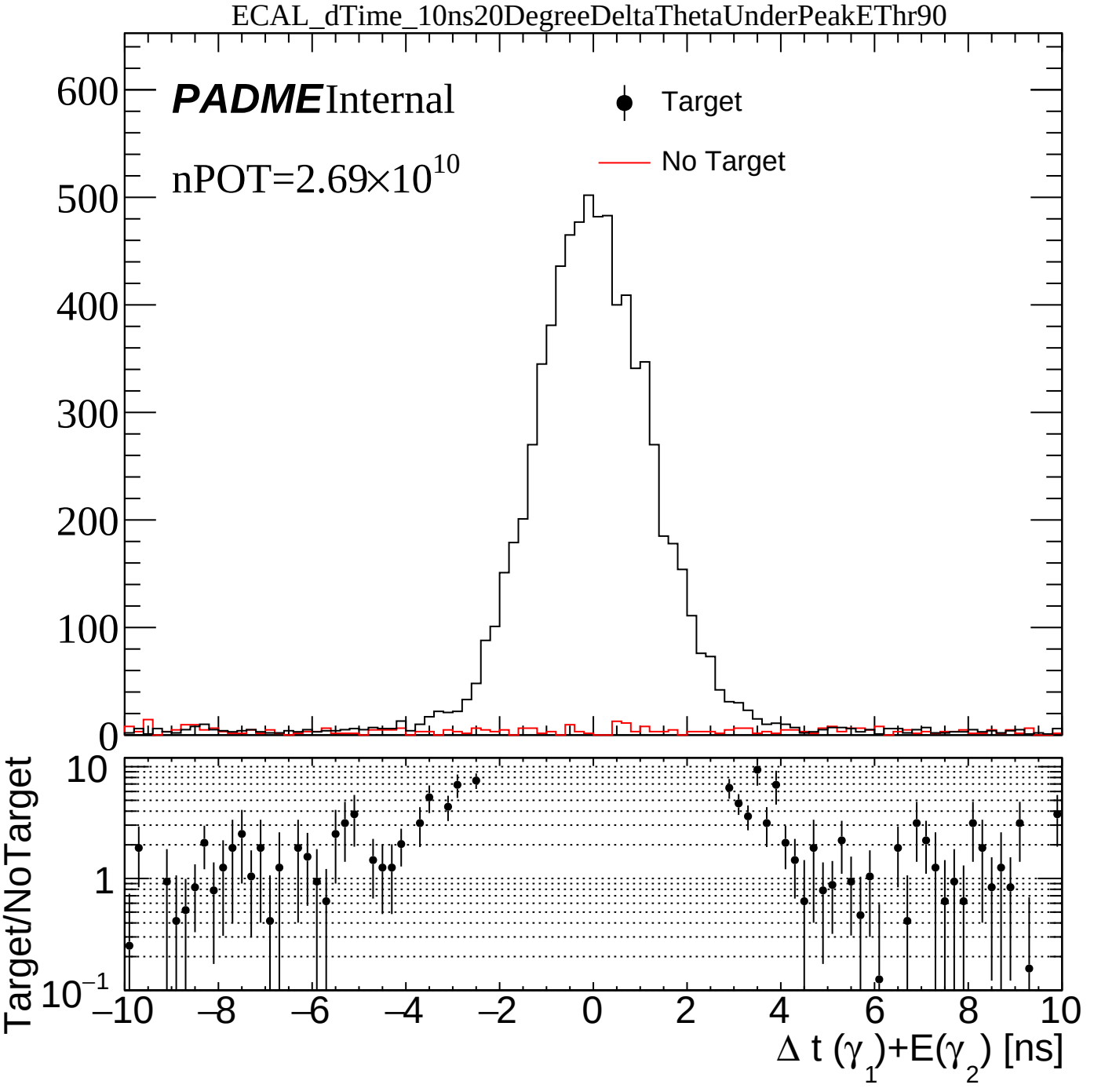

100
0
−100
−200
−300
−400
−10
−8
−6
−4
−2
0
2
4
6
8
10

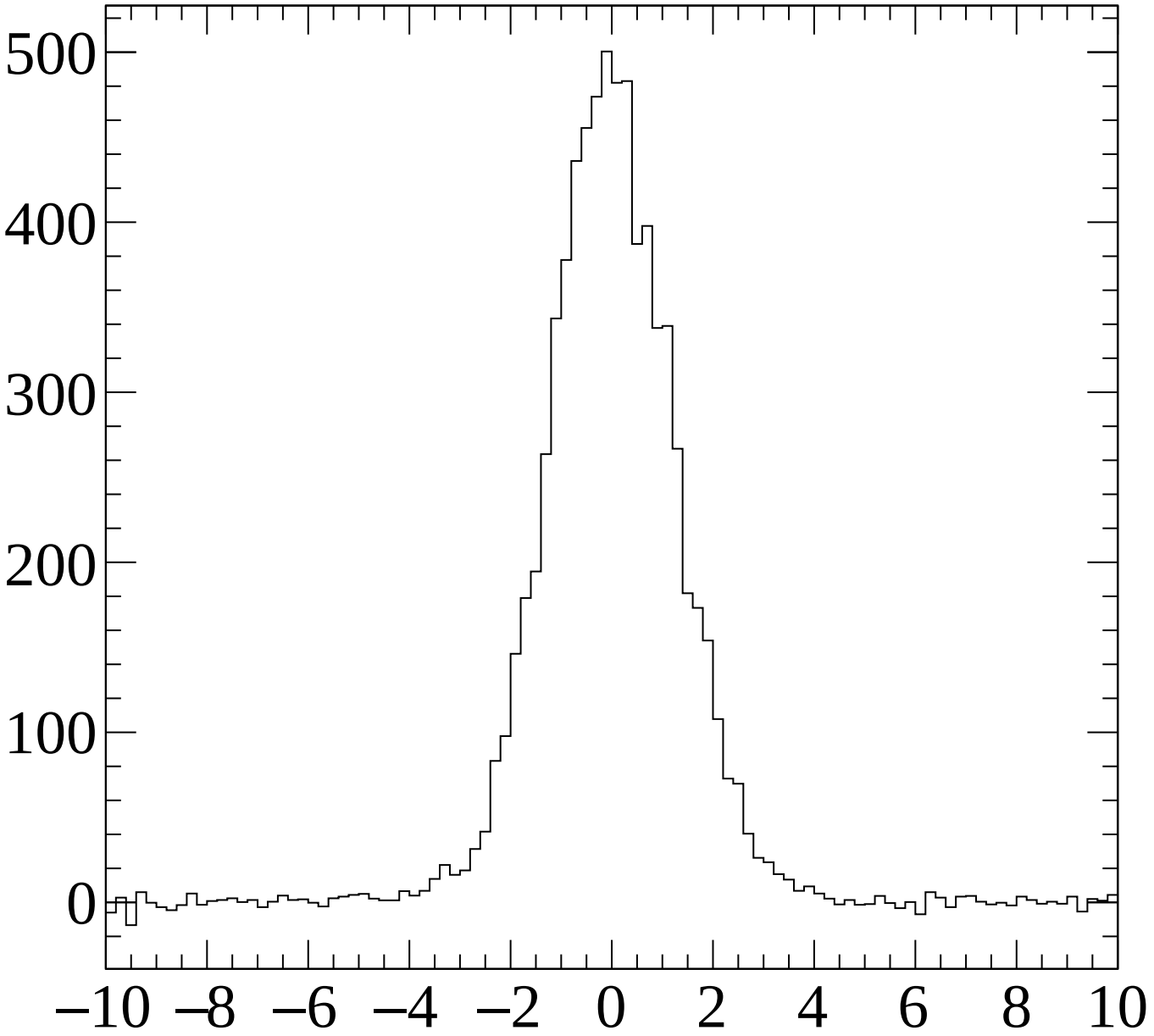

ECAL_dTime_10ns_UnderPeakEThr90
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
−10
−8
−6
−4
−2
0
2
4
6
8
10
Δ t (γ1)+E(γ2) [ns]

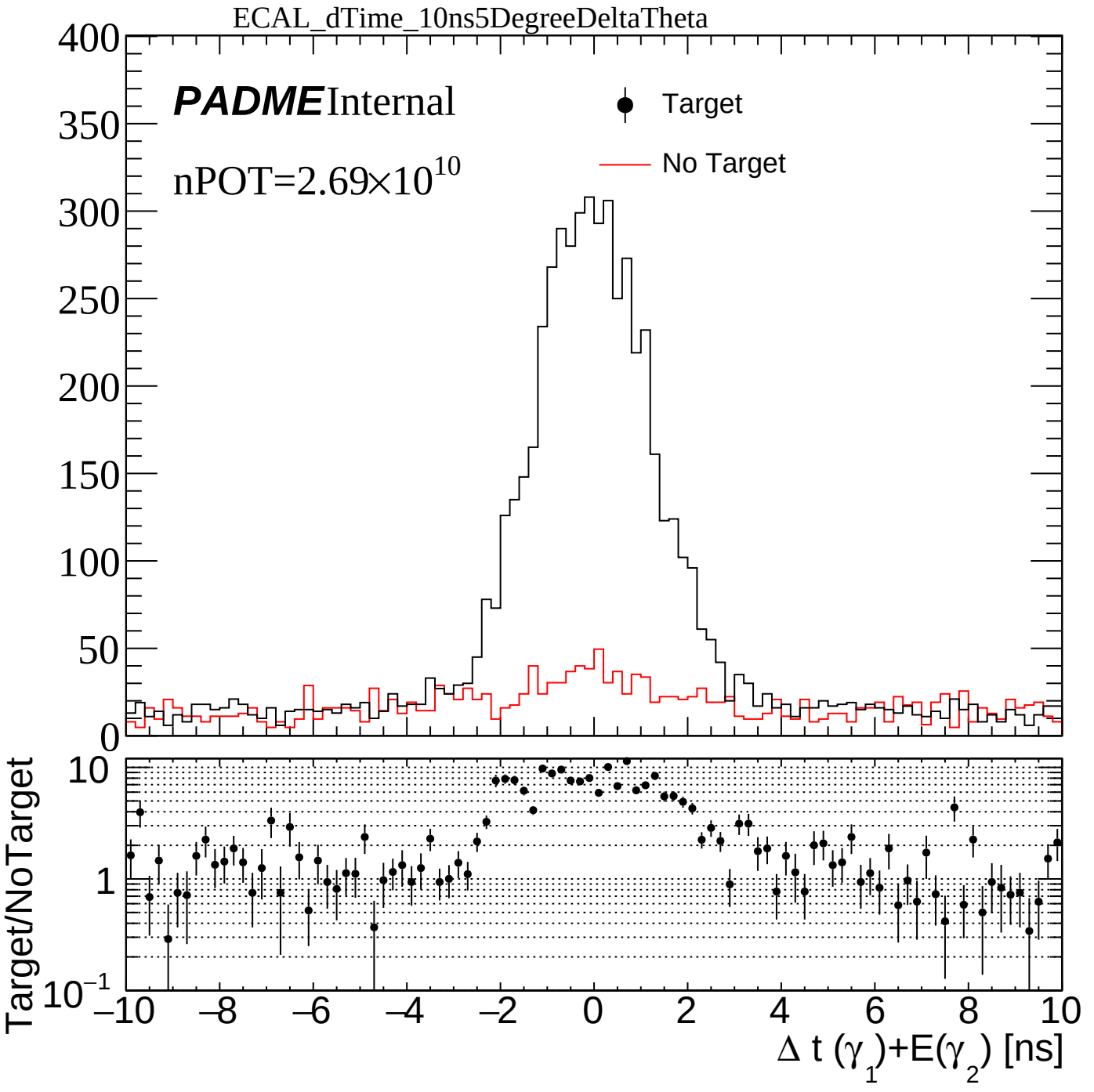

500
400
300
200
100
0
–10
–8
–6
–4
–2
0
2
4
6
8
10

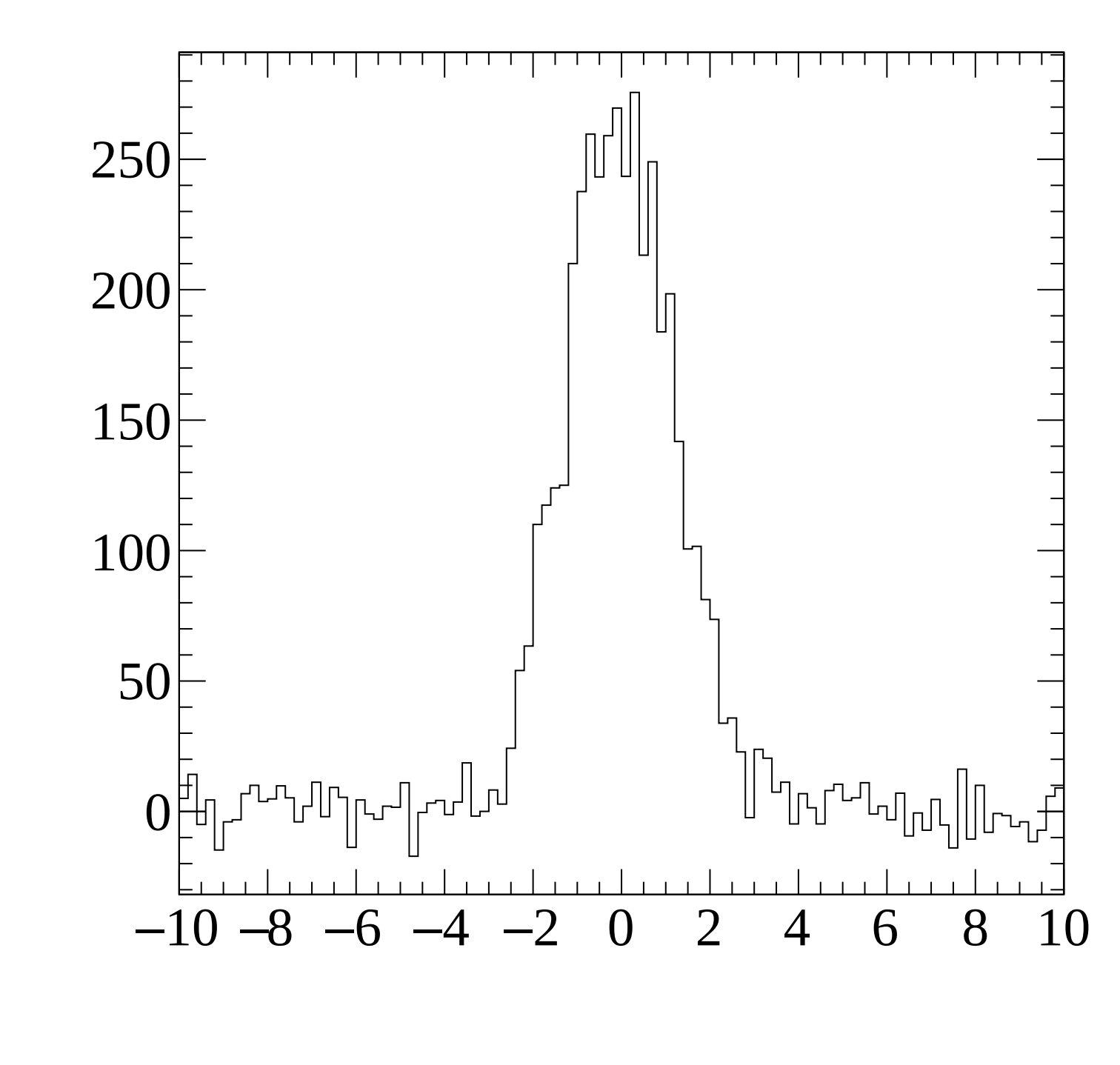

ECAL_dTime_10ns20DegreeDeltaTheta
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
Target/NoTarget
10
1
10^−1
−10
−8
−6
−4
−2
0
2
4
6
8
10
Δ t (γ_1)+E(γ_2) [ns]


500
400
300
200
100
0
–10
–8
–6
–4
–2
0
2
4
6
8
10


ECAL_dTime_10ns20DegreeDeltaThetaUnderPeakEThr90
PADME Internal
nPOT=2.69×10^10
Target
No Target
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
−10
−8
−6
−4
−2
0
2
4
6
8
10
Δ t (γ1)+E(γ2) [ns]


500
400
300
200
100
0
–10
–8
–6
–4
–2
0
2
4
6
8
10


ECAL_dTime_10ns5DegreeDeltaTheta
PADME Internal
nPOT=2.69×10^10
Target
No Target
400
350
300
250
200
150
100
50
0
Target/NoTarget
10
1
10^−1
–10
–8
–6
–4
–2
0
2
4
6
8
10
Δ t (γ1)+E(γ2) [ns]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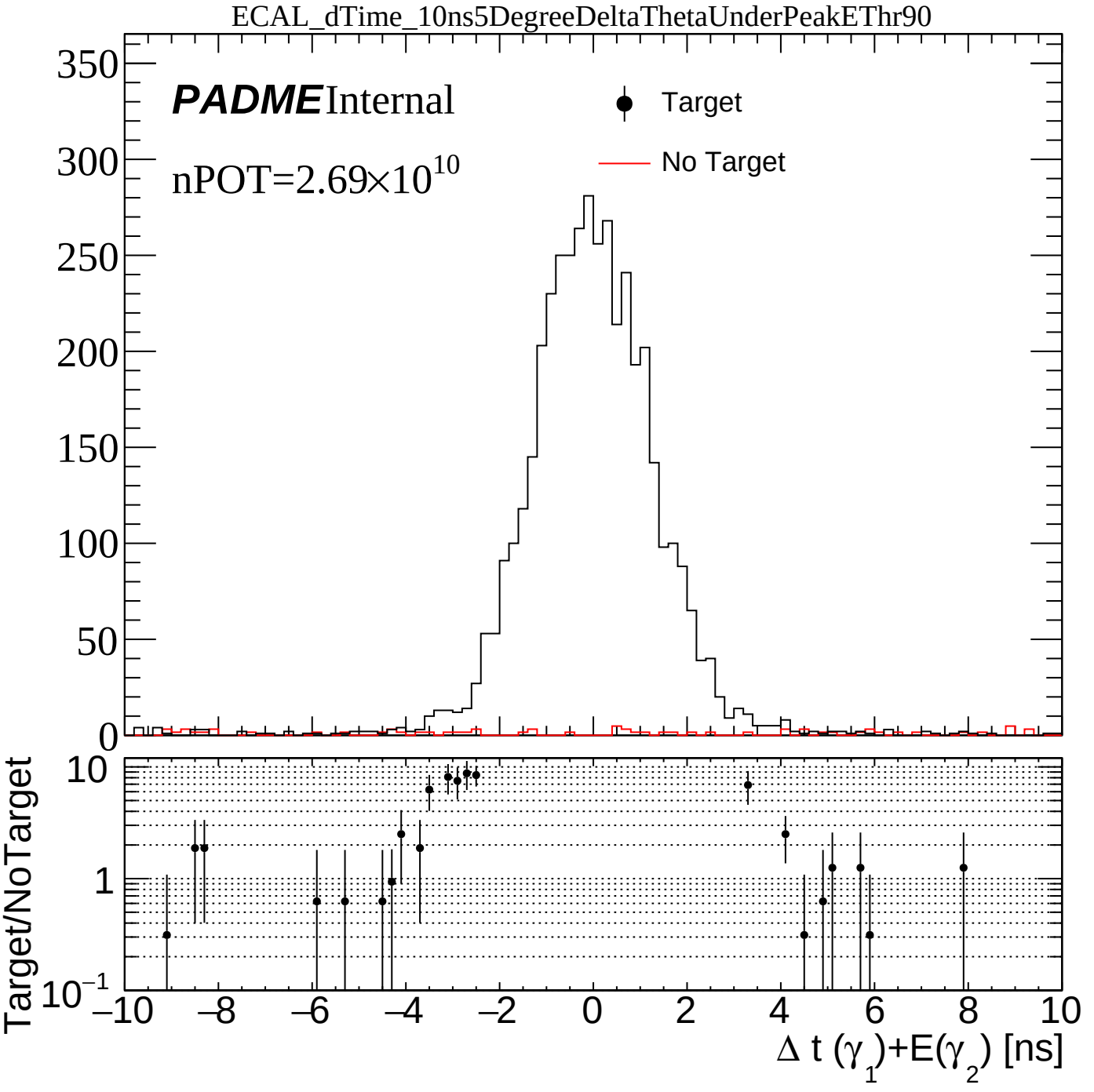
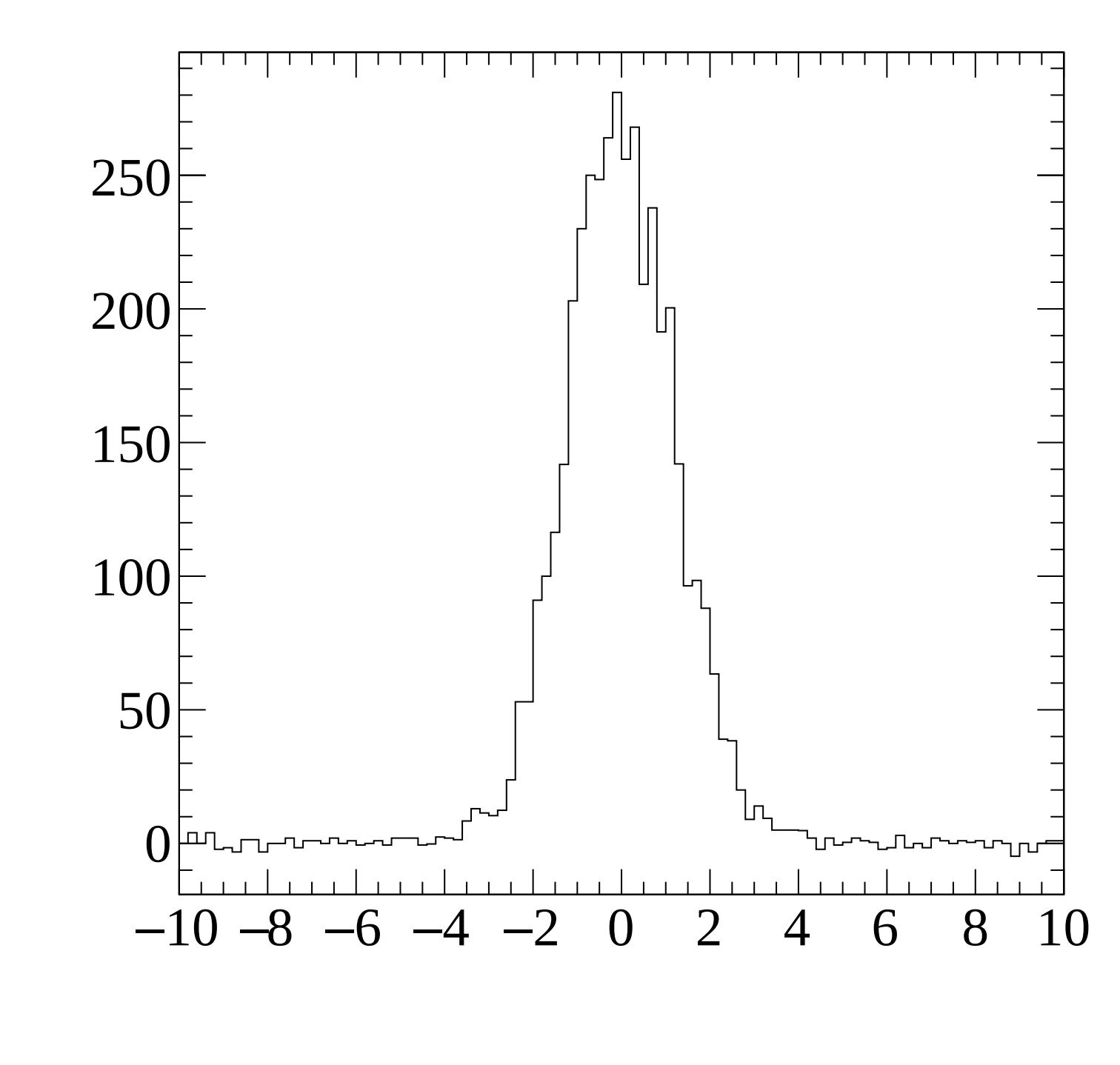
200
150
100
50
0
–10
–8
–6
–4
–2
0
2
4
6
8
10


ECAL_dTime_10ns5DegreeDeltaThetaUnderPeakEThr90
PADME Internal
nPOT=2.69×10^10
Target
No Target
350
300
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
−10
−8
−6
−4
−2
0
2
4
6
8
10
Δ t (γ1)+E(γ2) [ns]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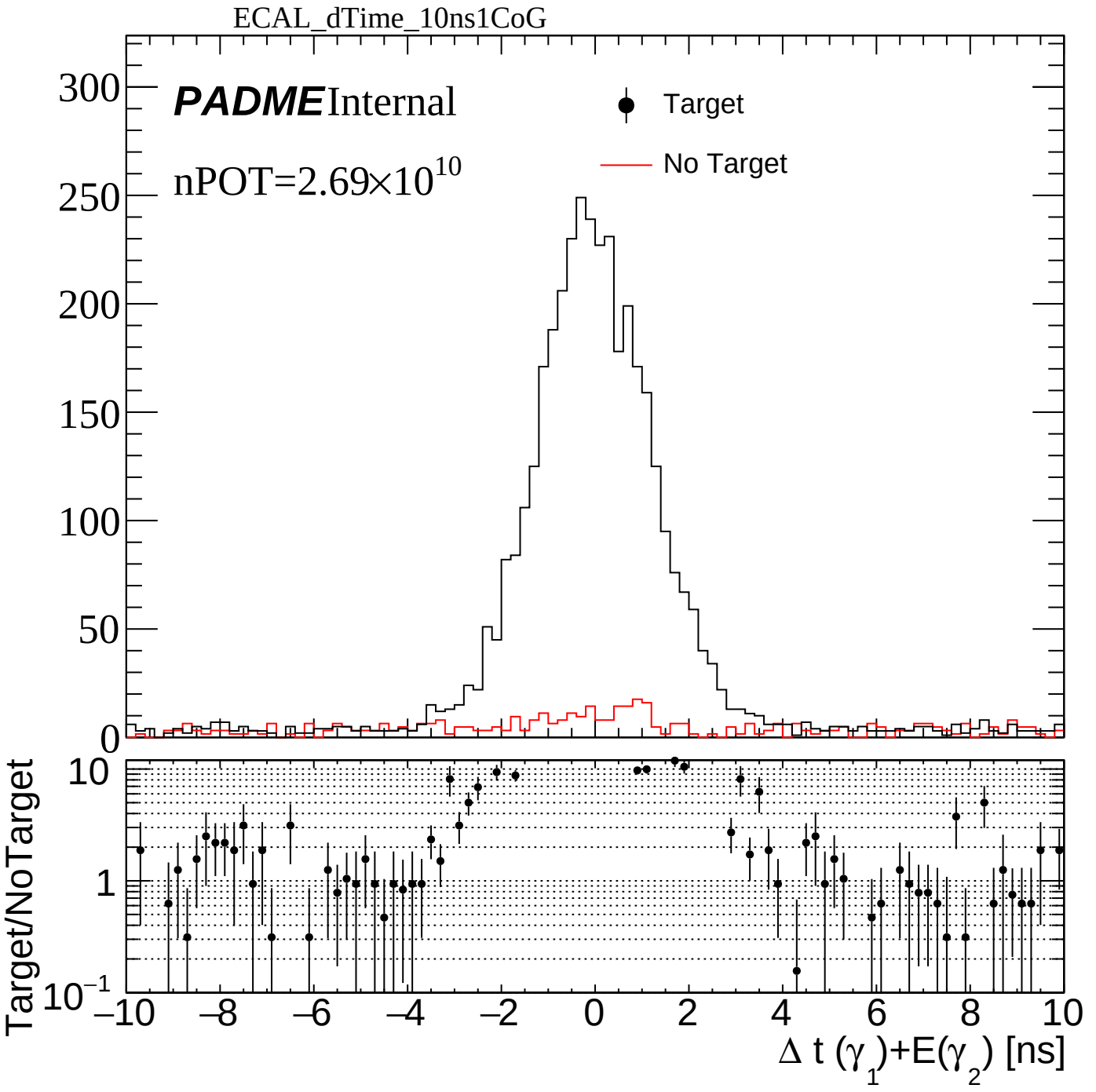
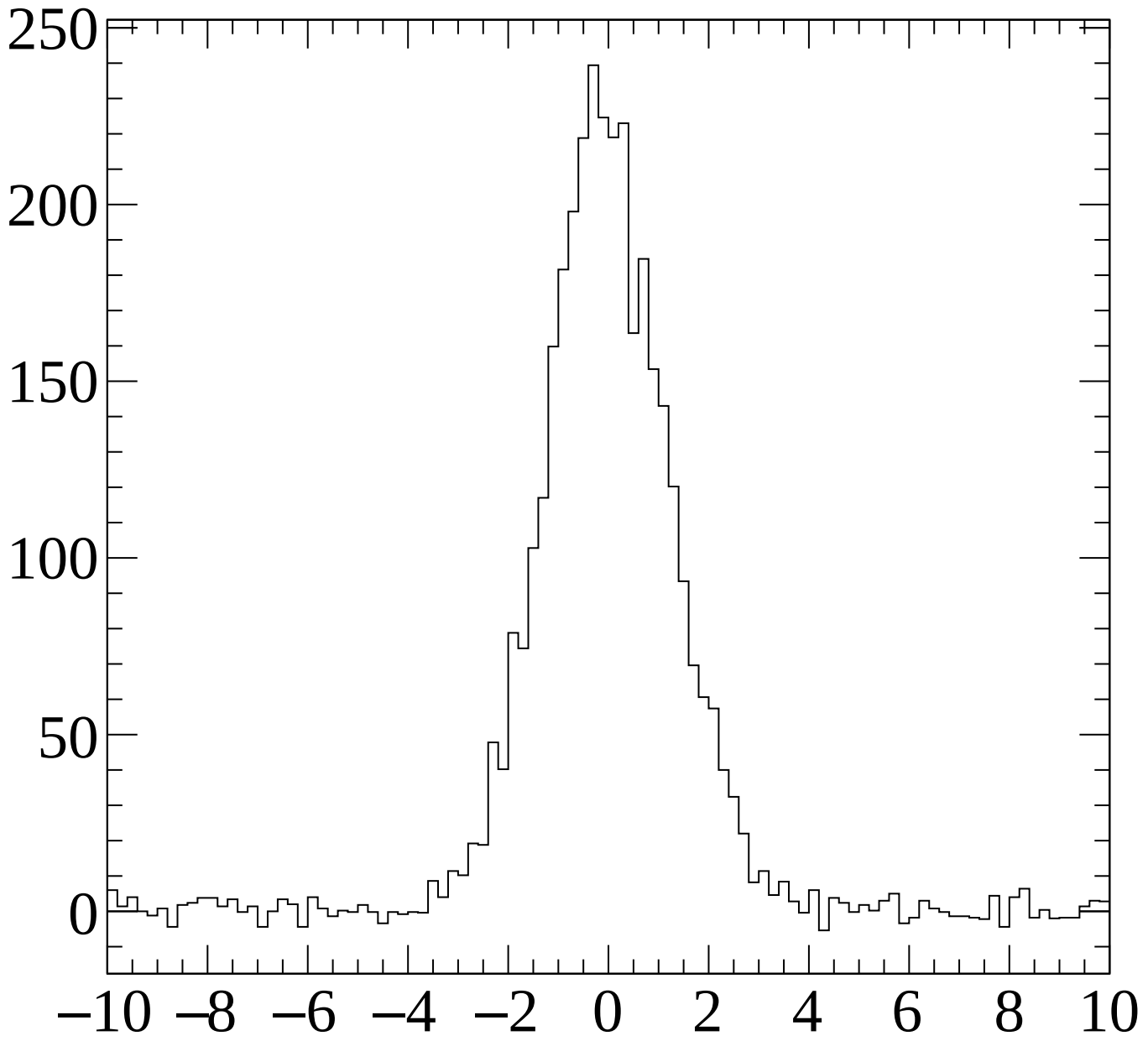
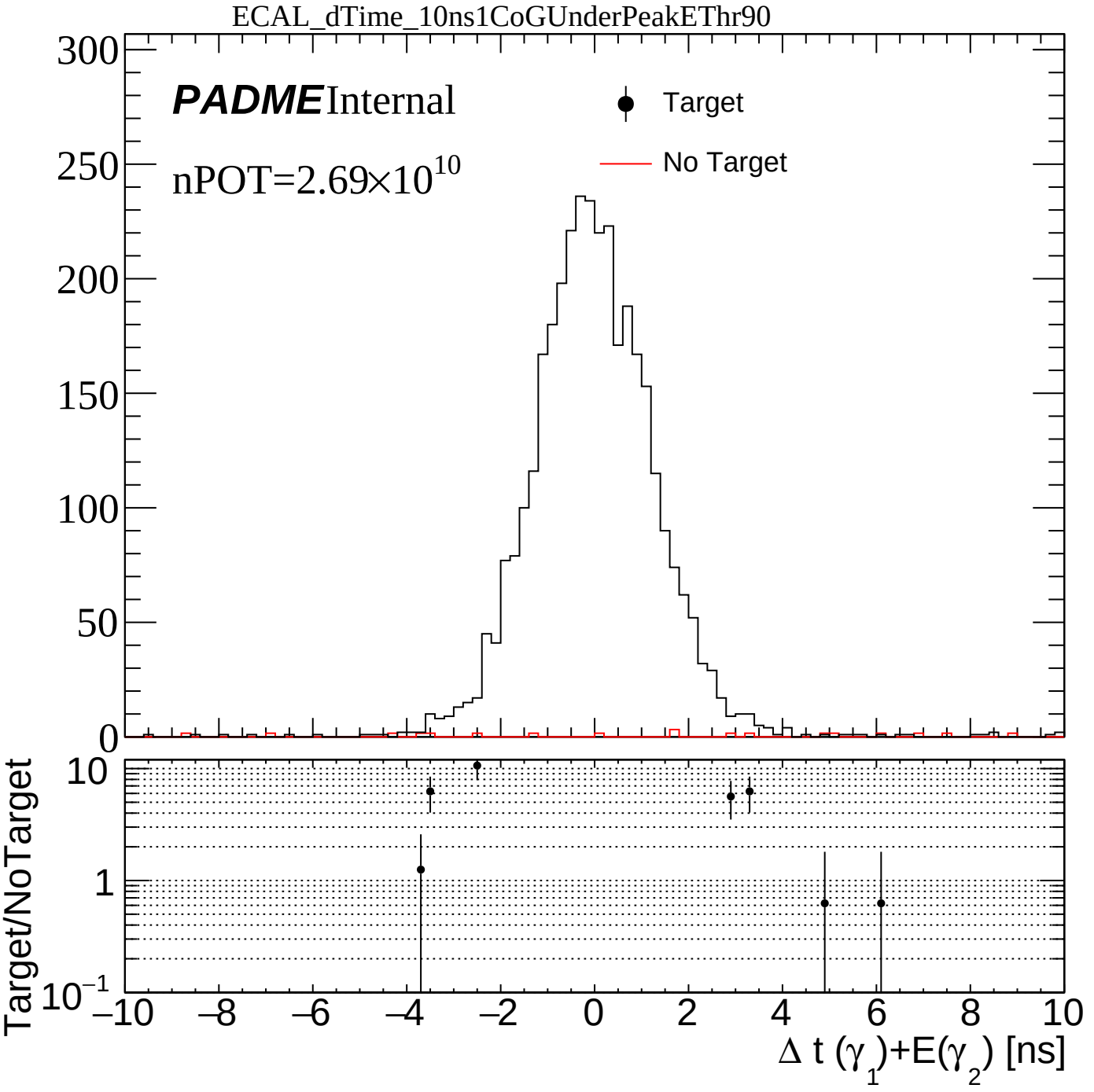
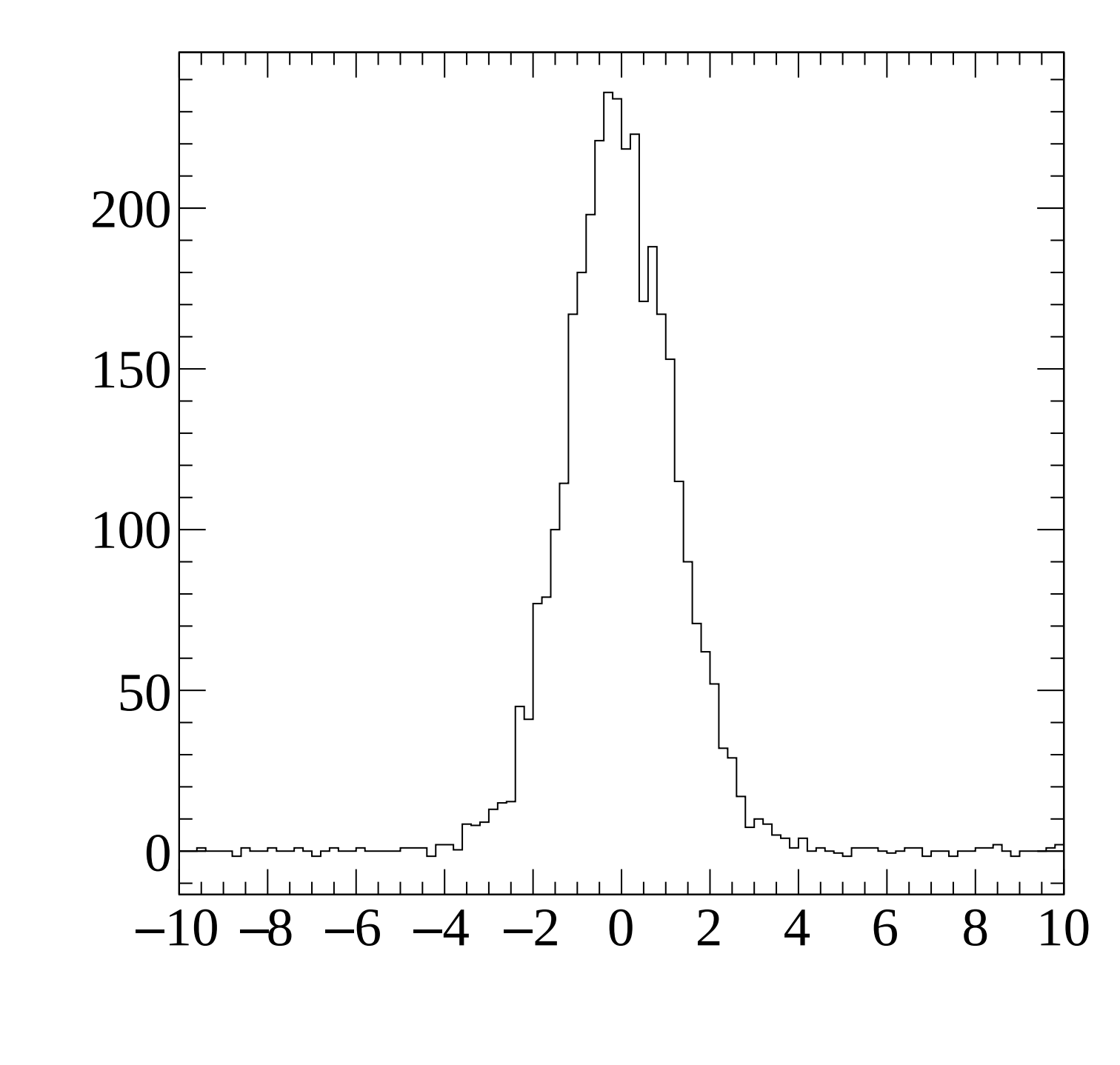
200
150
100
50
0
–10
–8
–6
–4
–2
0
2
4
6
8
10


ECAL_dTime_10ns1CoG
PADME Internal
nPOT=2.69×10^10
Target
No Target
300
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
−10
−8
−6
−4
−2
0
2
4
6
8
10
Δ t (γ1)+E(γ2) [ns]


250
200
150
100
50
0
–10
–8
–6
–4
–2
0
2
4
6
8
10


ECAL_dTime_10ns1CoGUnderPeakEThr90
PADME Internal
nPOT=2.69×10^10
Target
No Target
300
250
200
150
100
50
0
Target/NoTarget
10
1
10^−1
−10
−8
−6
−4
−2
0
2
4
6
8
10
Δ t (γ1)+E(γ2) [ns]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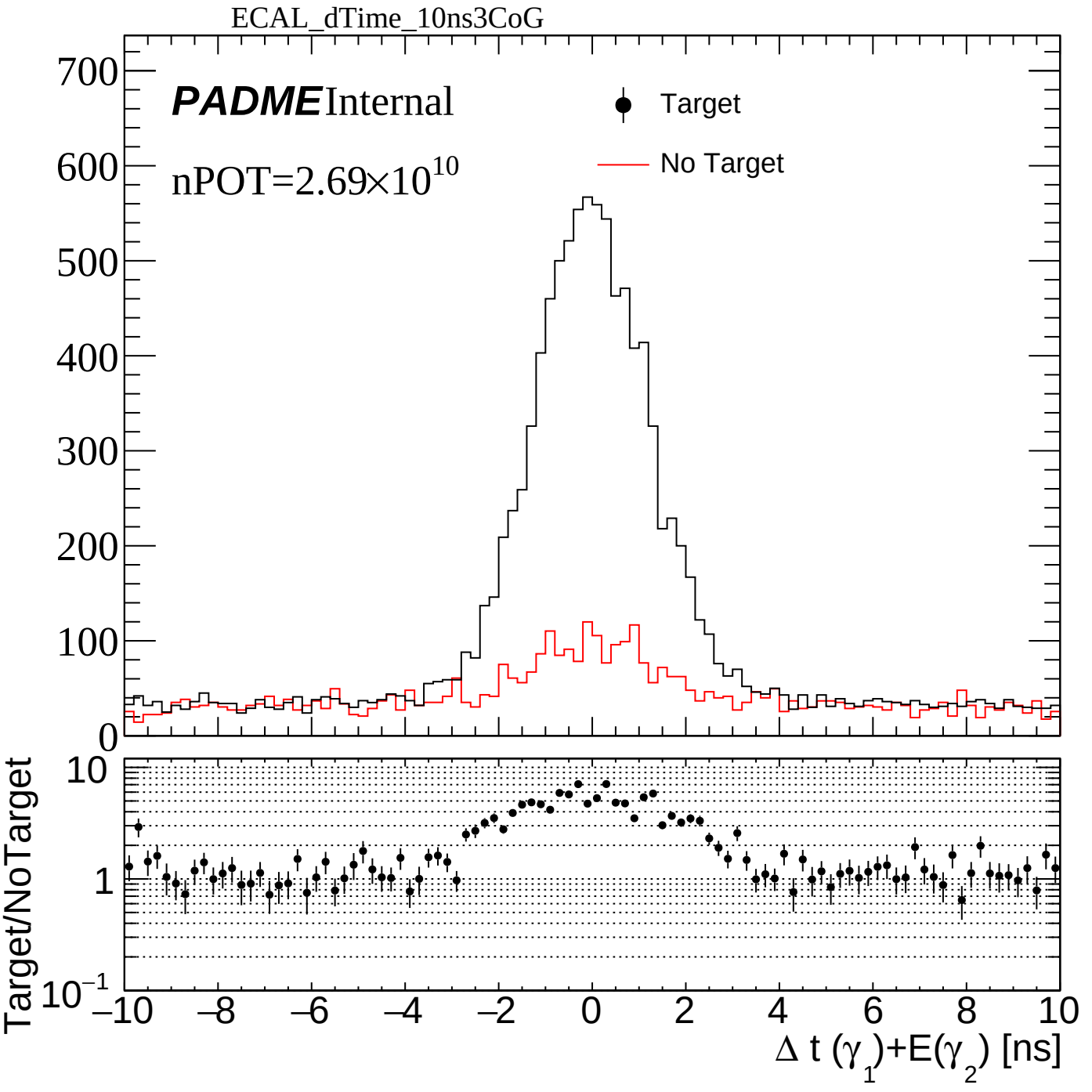
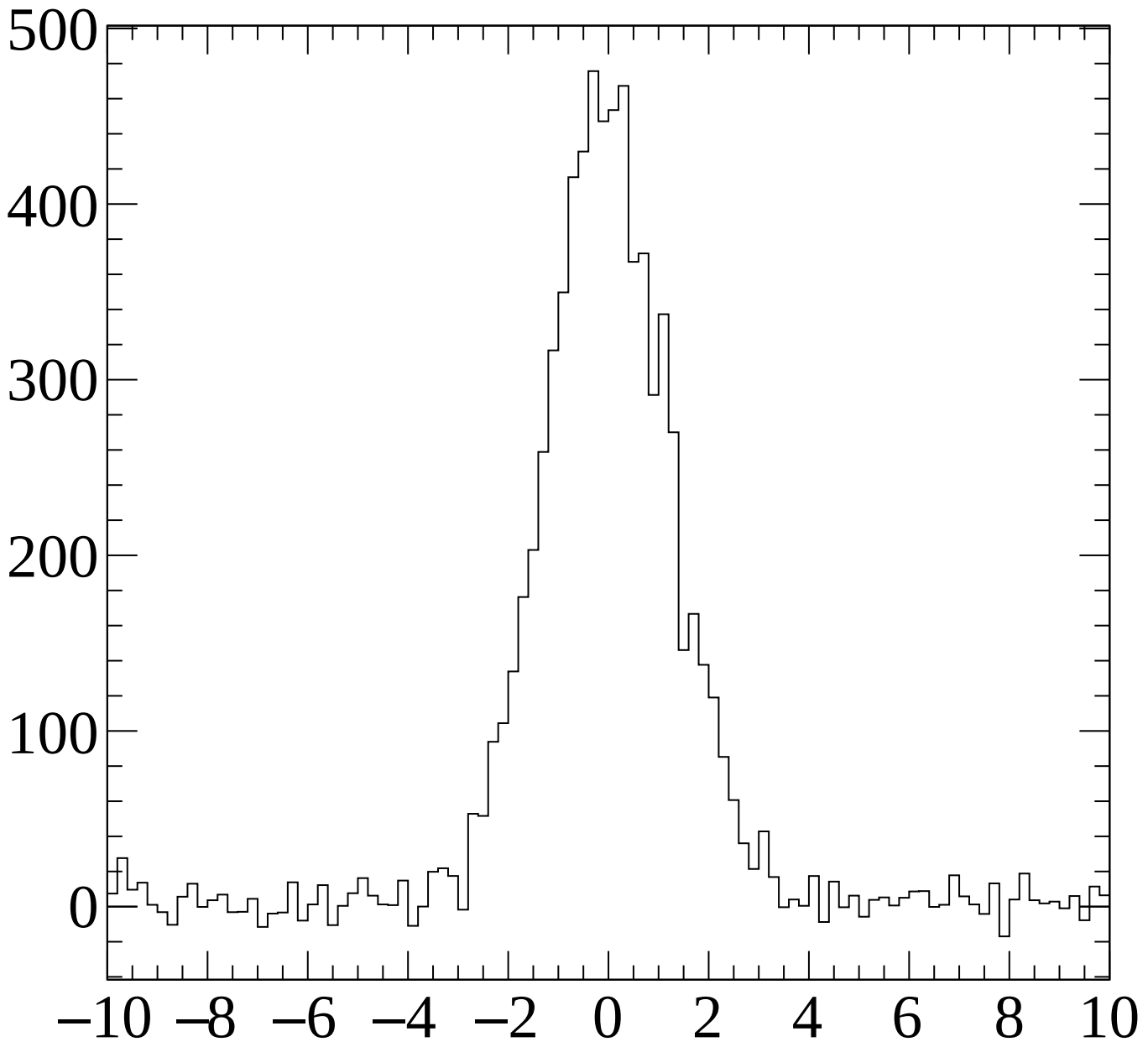
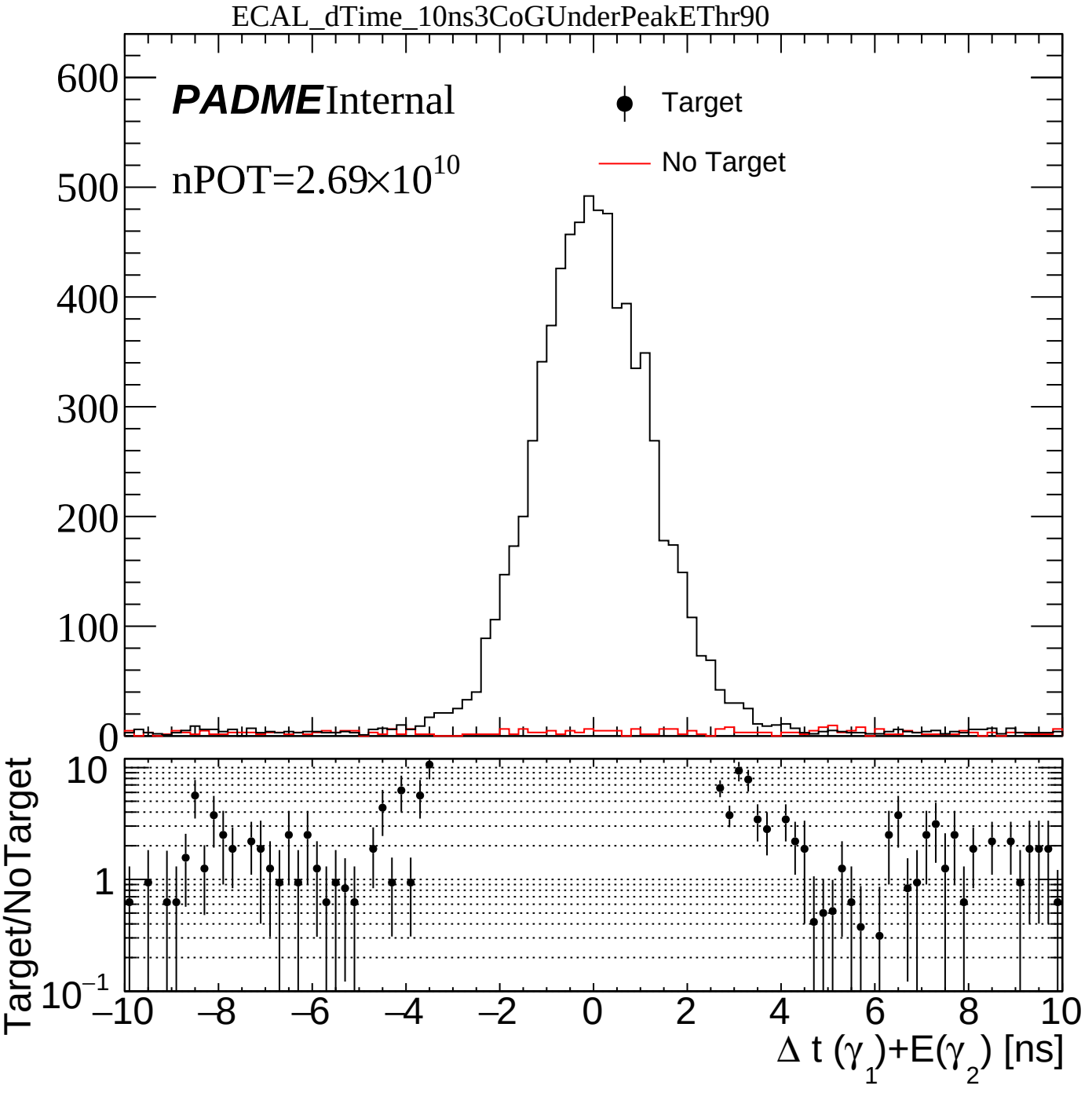
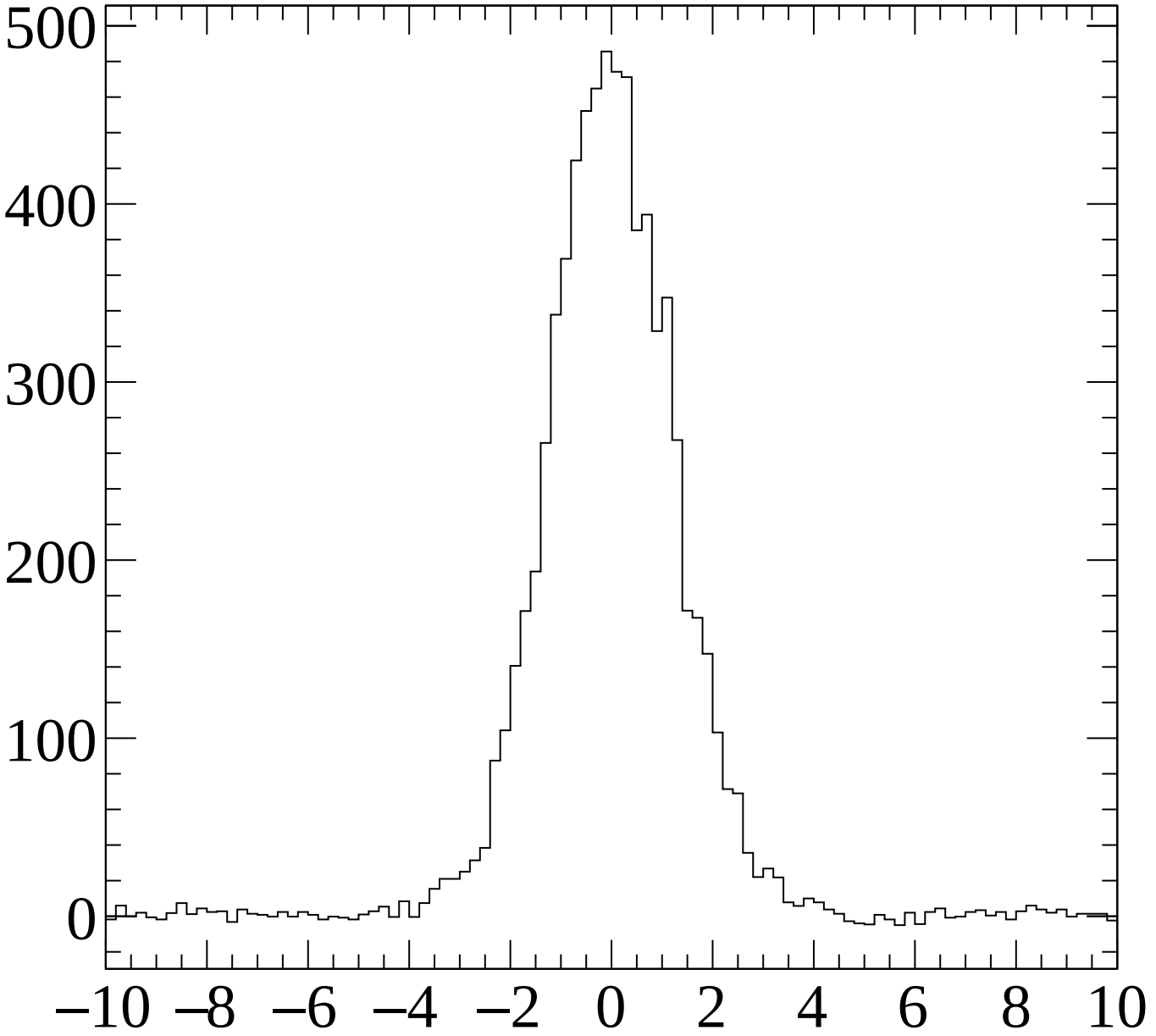
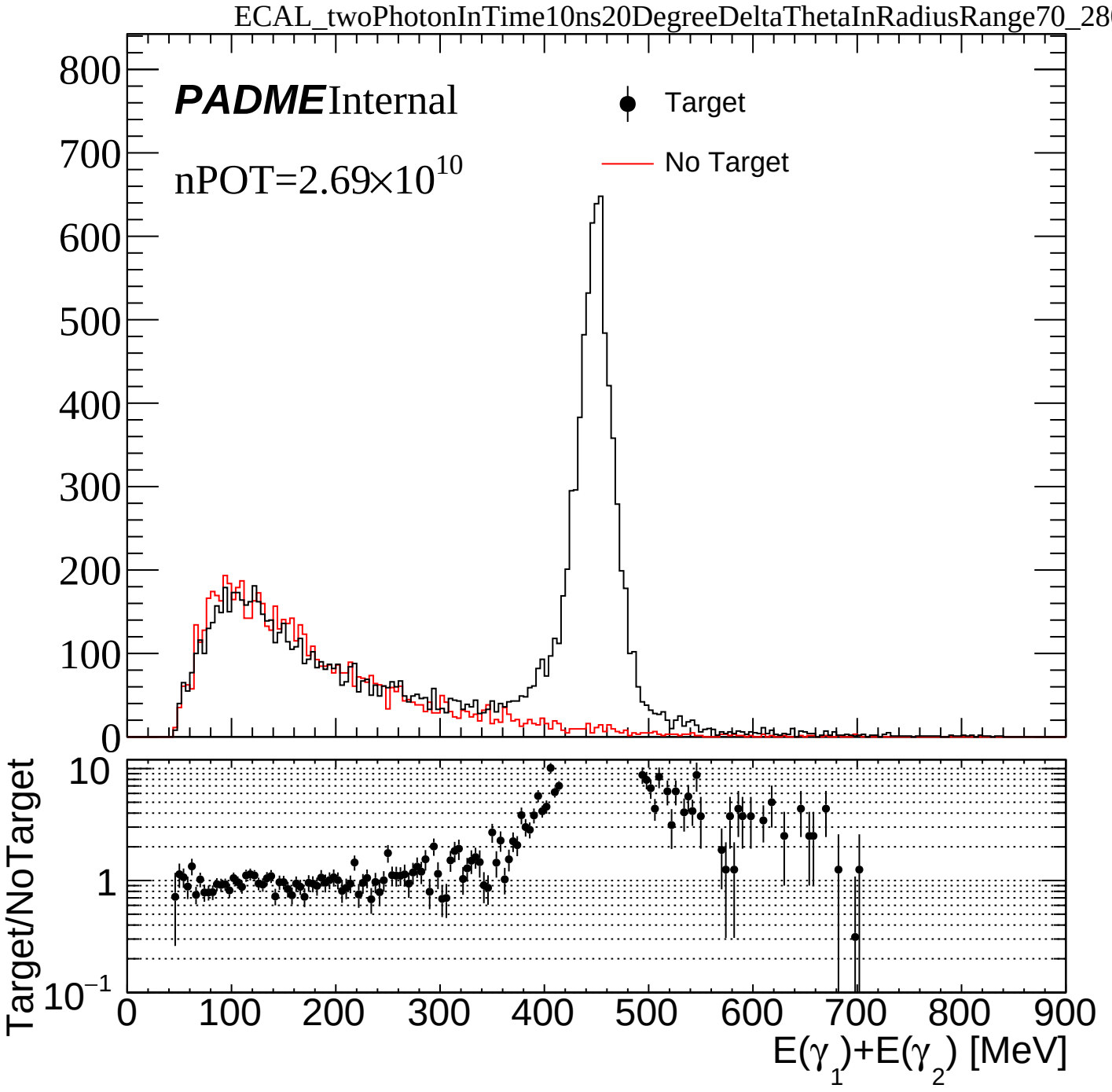
150
100
50
0
–10
–8
–6
–4
–2
0
2
4
6
8
10

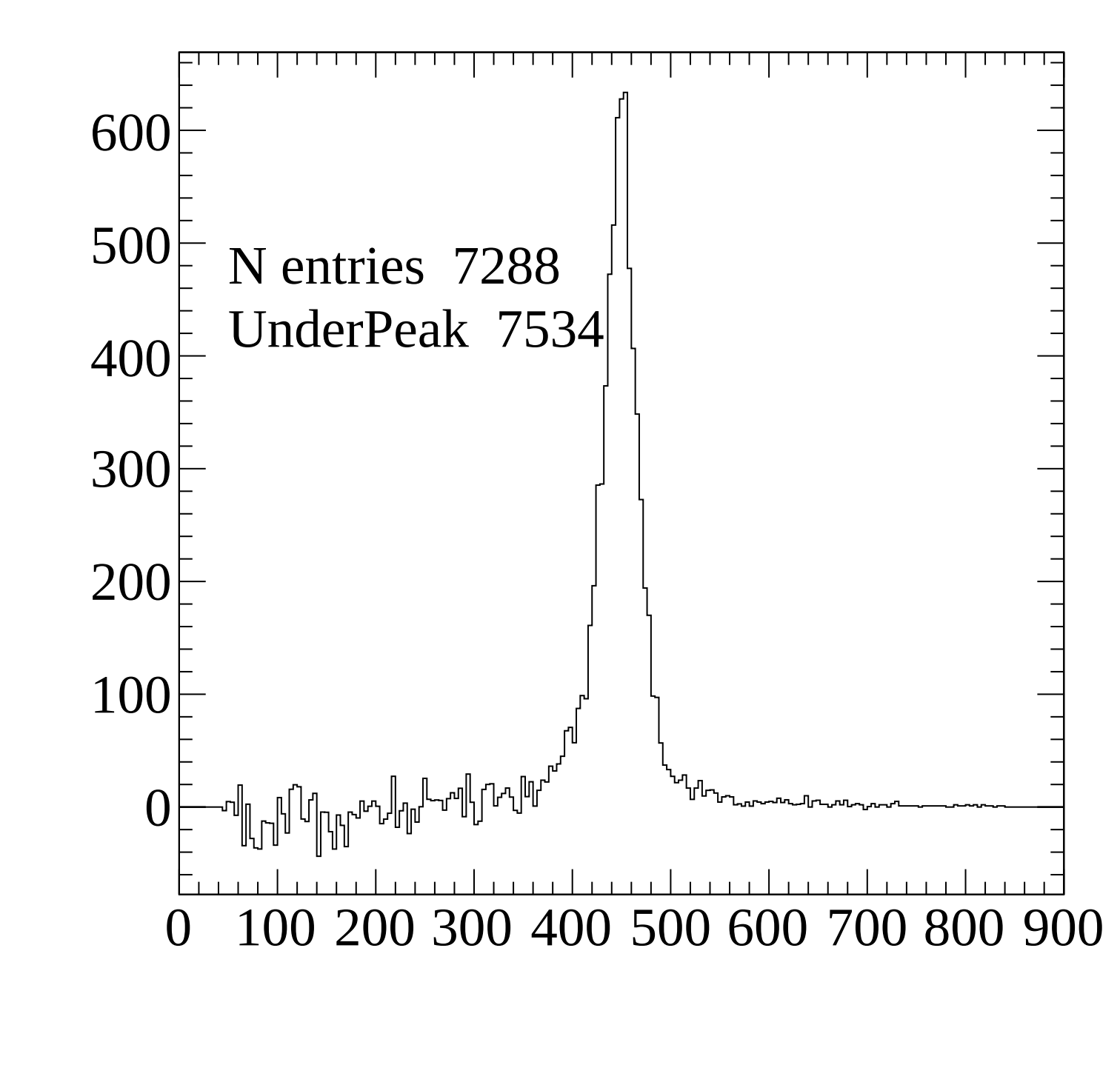

ECAL_dTime_10ns3CoG
PADME Internal
nPOT=2.69×10^10
Target
No Target
700
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
−10
−8
−6
−4
−2
0
2
4
6
8
10
Δ t (γ_1)+E(γ_2) [ns]

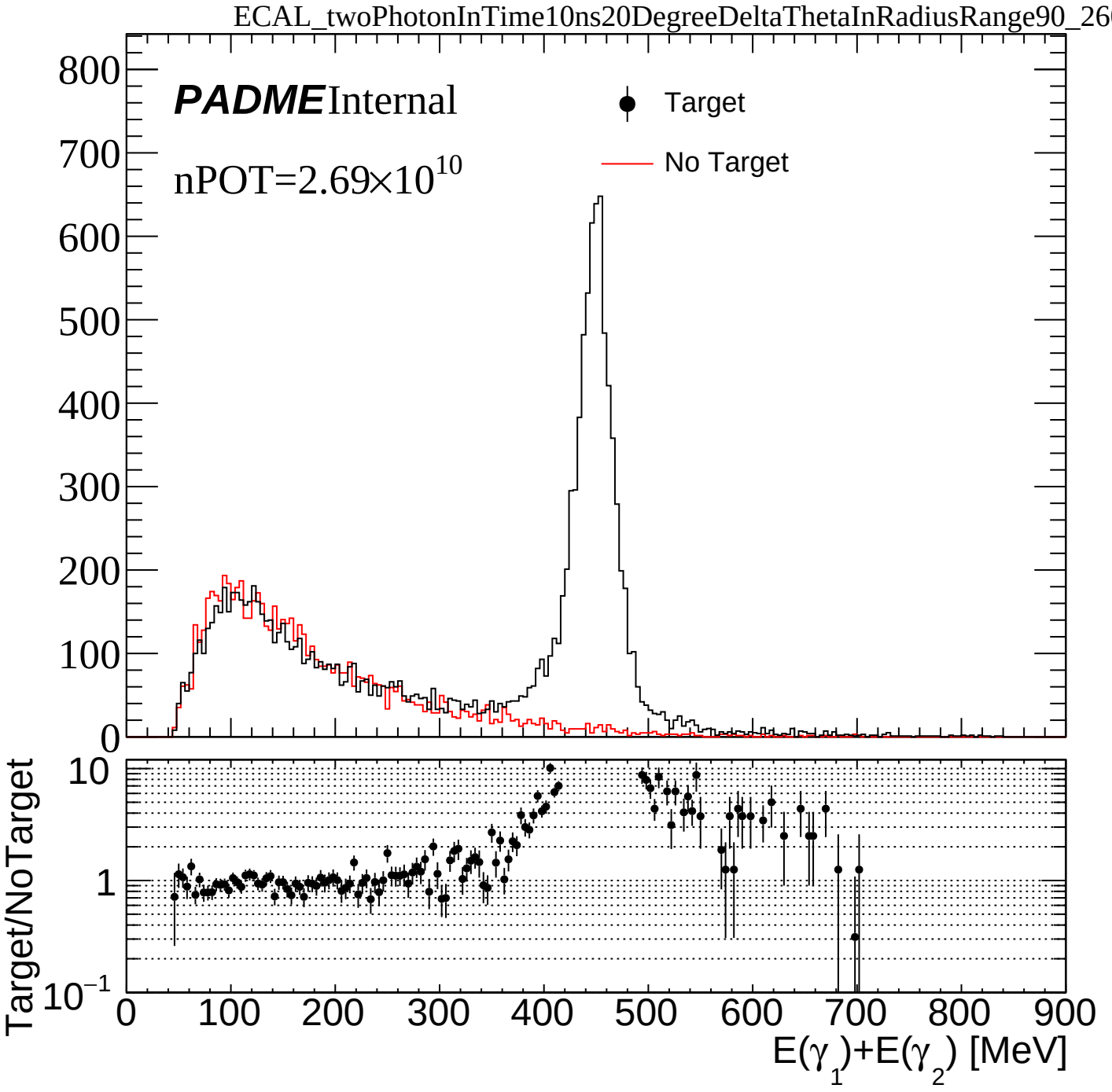

500
400
300
200
100
0
–10
–8
–6
–4
–2
0
2
4
6
8
10

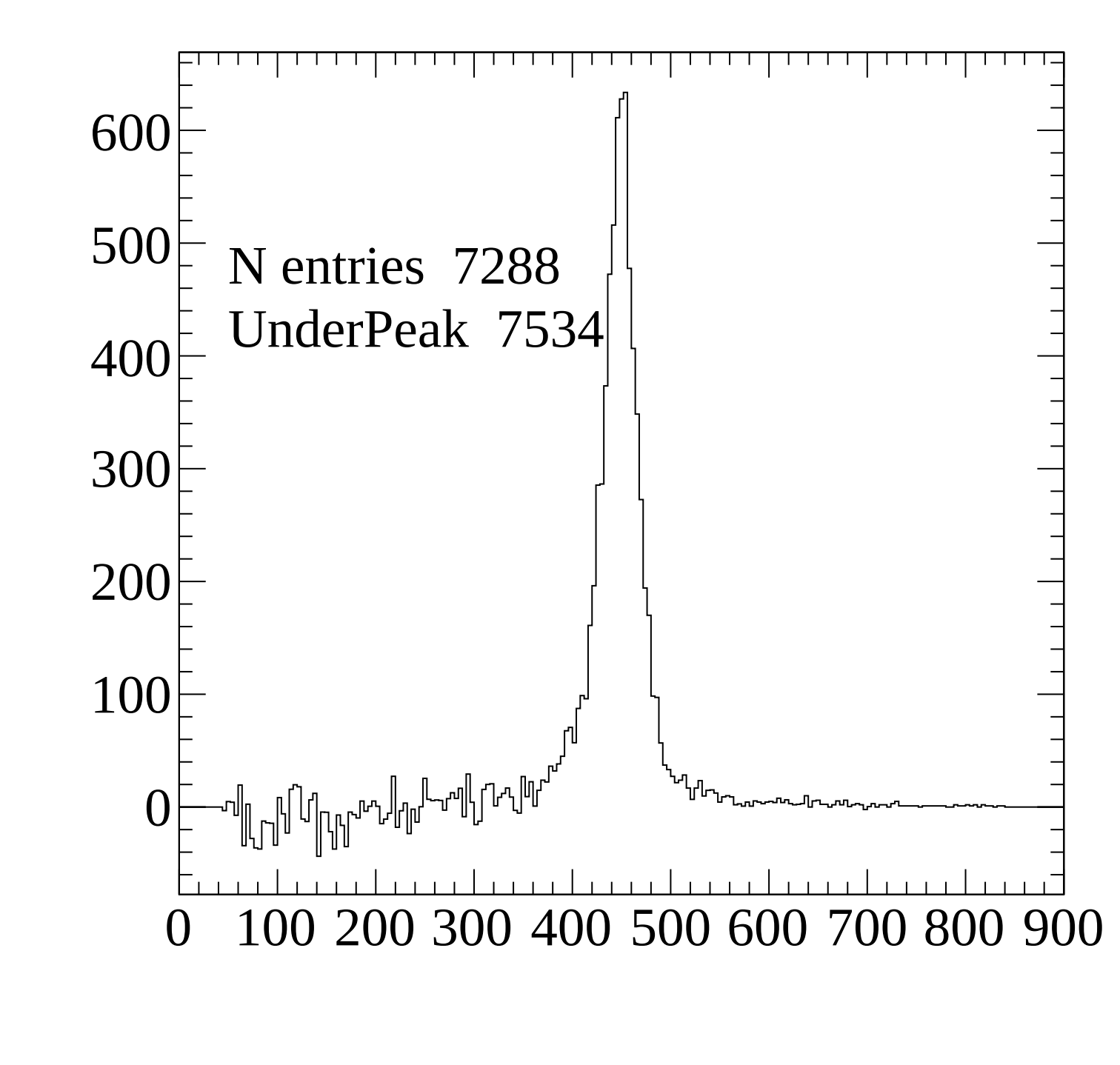

ECAL_dTime_10ns3CoGUnderPeakEThr90
PADME Internal
nPOT=2.69×10^10
Target
No Target
600
500
400
300
200
100
0
Target/NoTarget
10
1
10^−1
−10
−8
−6
−4
−2
0
2
4
6
8
10
Δ t (γ_1)+E(γ_2) [ns]

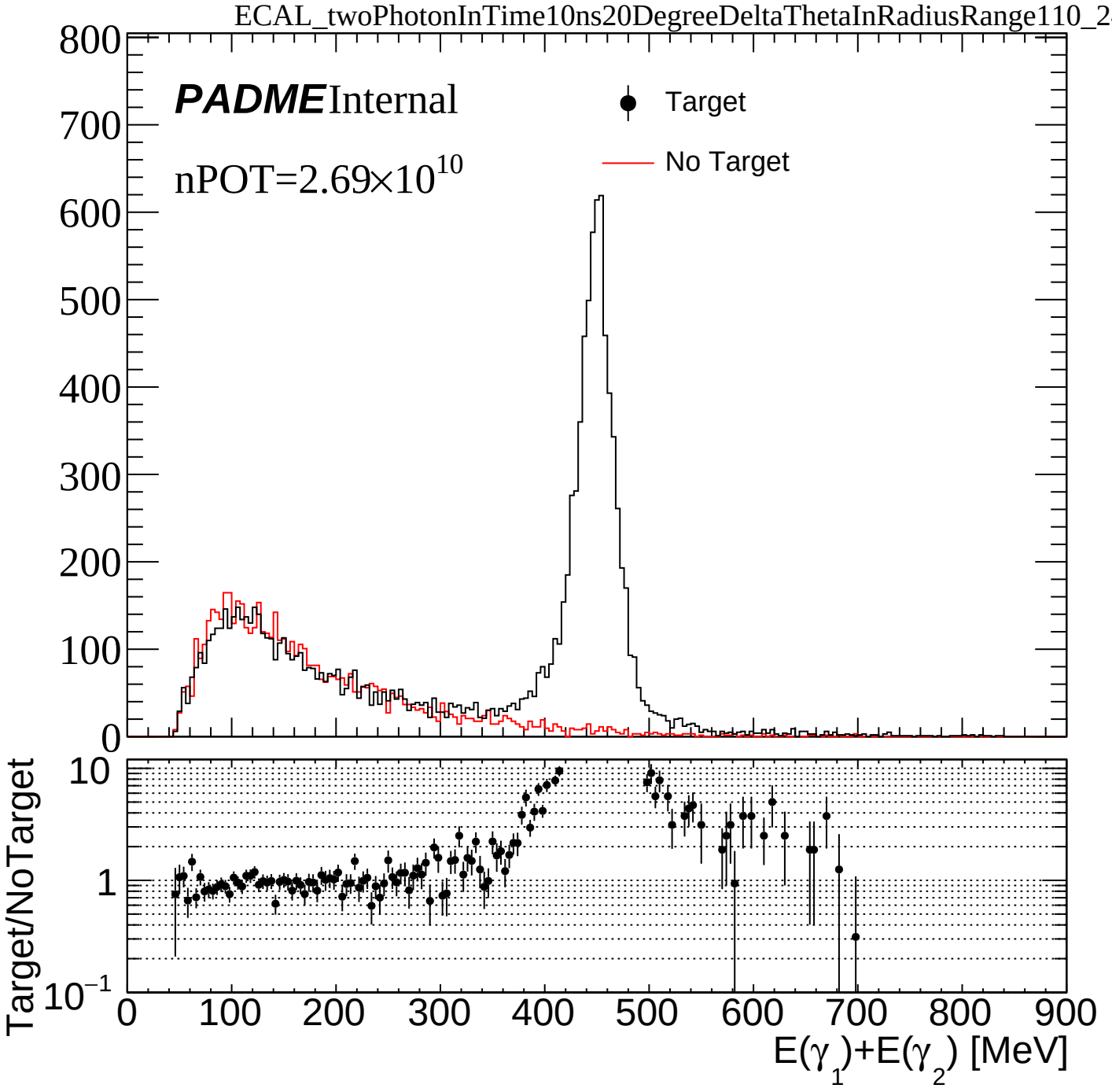

500
400
300
200
100
0
–10
–8
–6
–4
–2
0
2
4
6
8
10

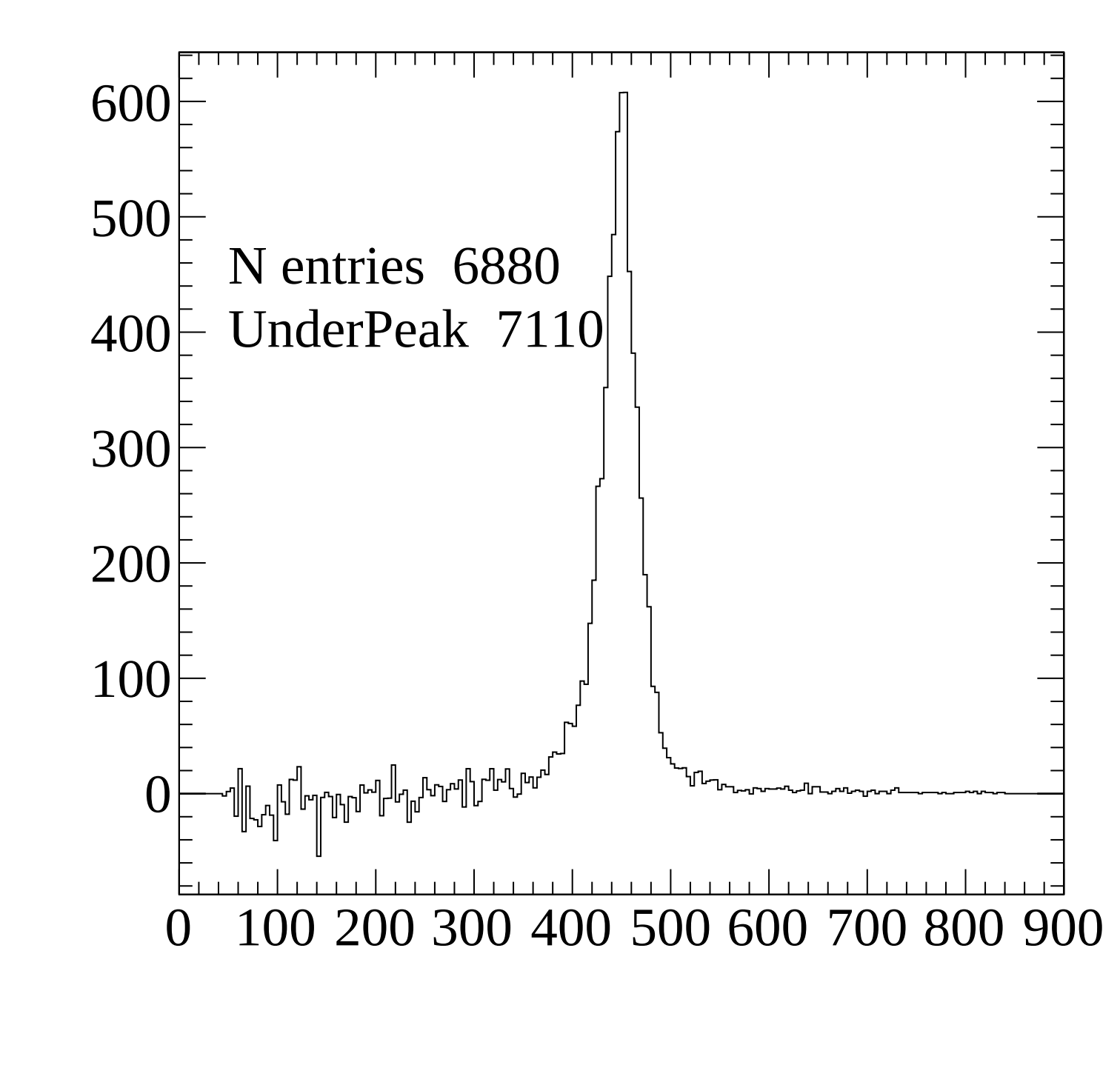

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange70_280
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

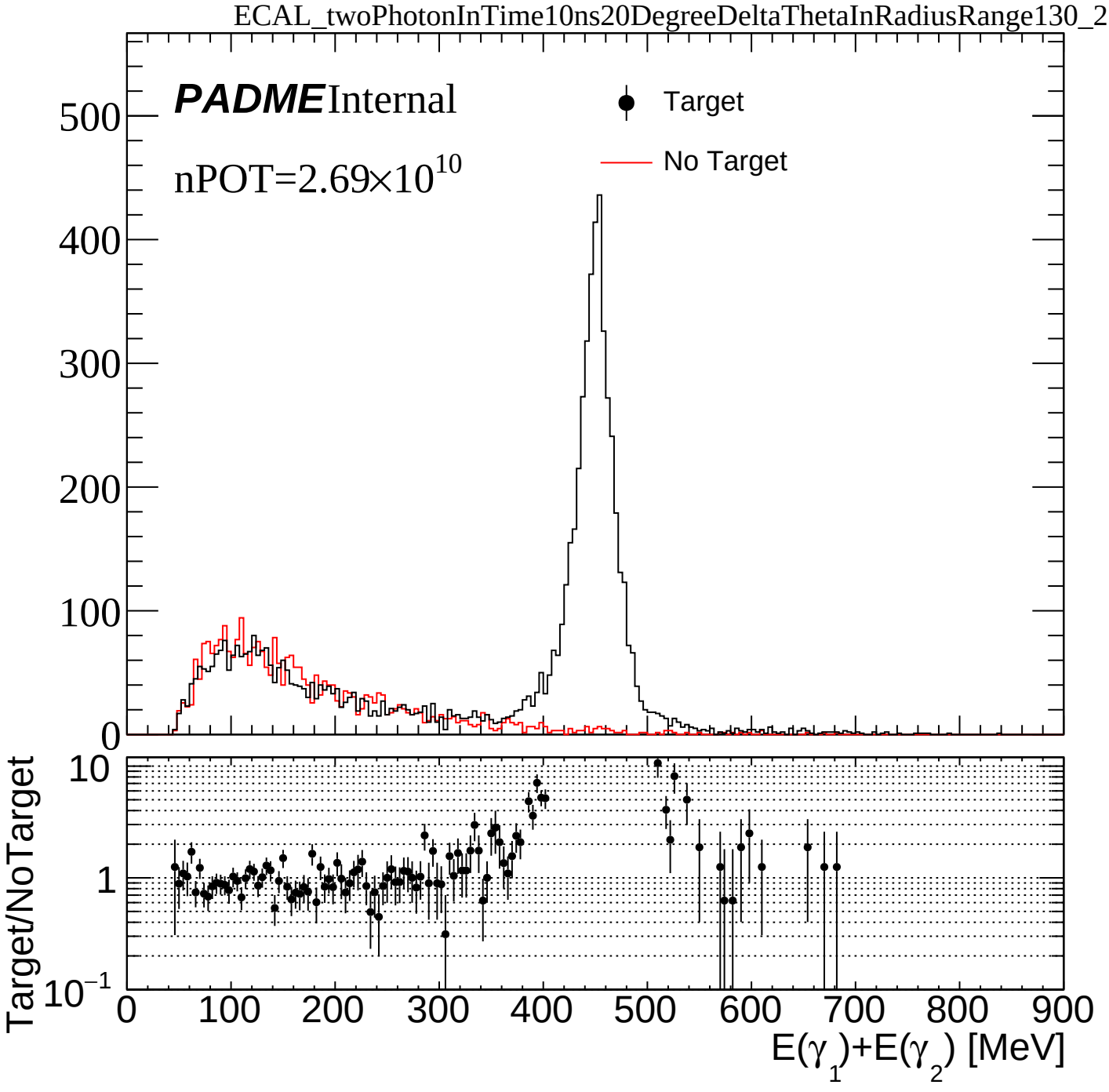

N entries 7288
UnderPeak 7534
600
500
400
300
200
100
0
0
100
200
300
400
500
600
700
800
900

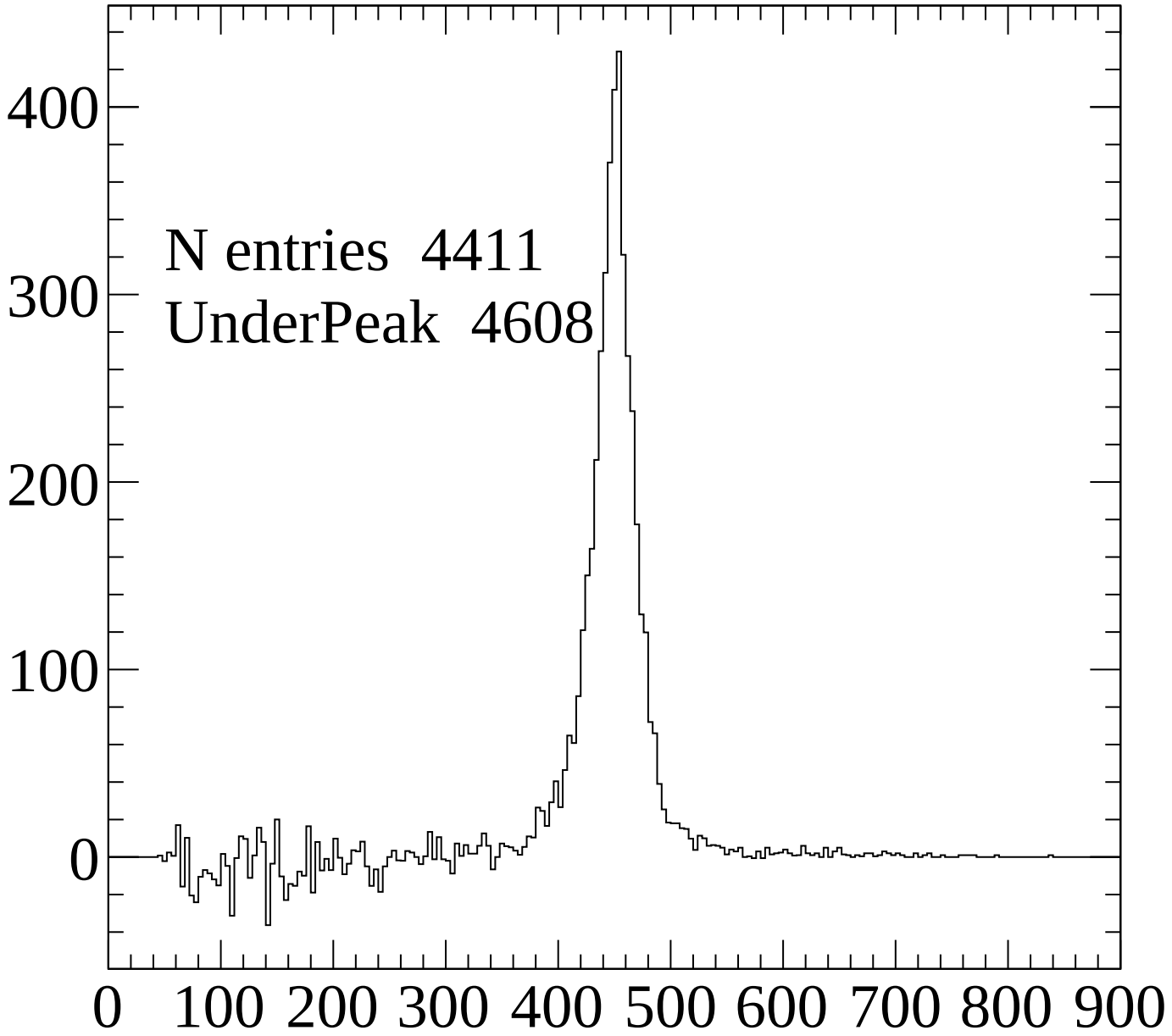

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange90_260
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

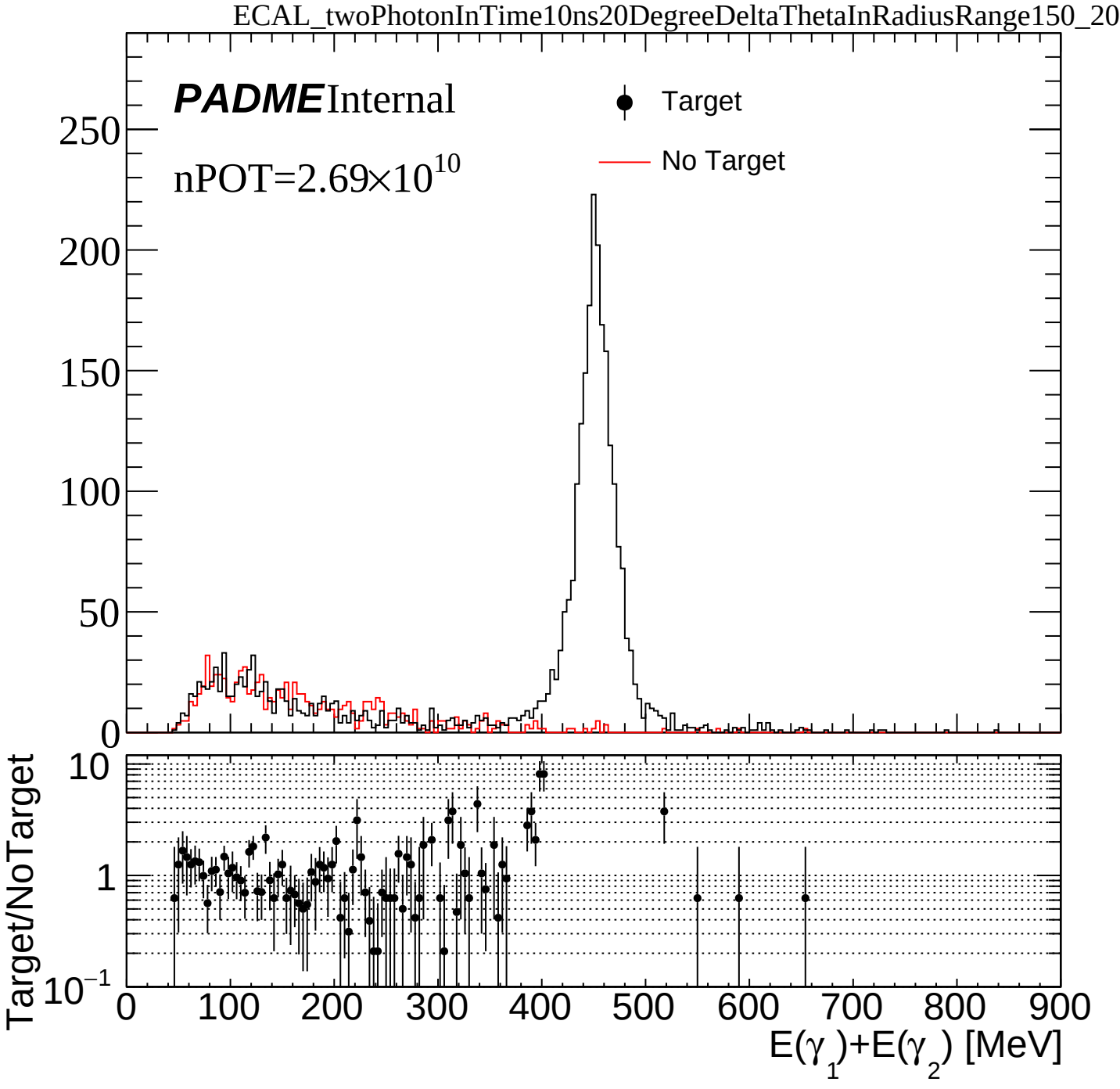

N entries 7288
UnderPeak 7534
600
500
400
300
200
100
0
0
100
200
300
400
500
600
700
800
900

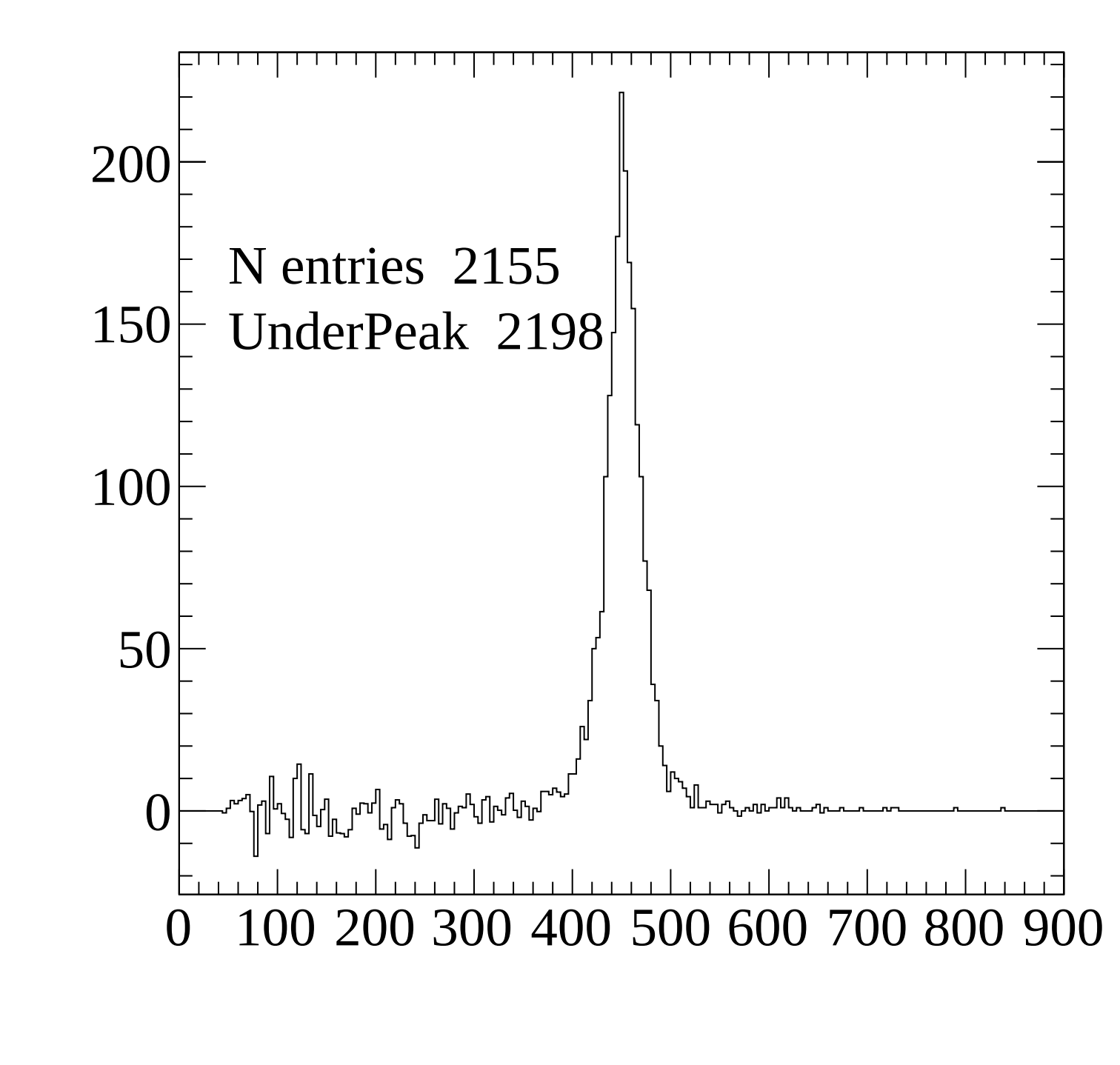

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange110_24
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

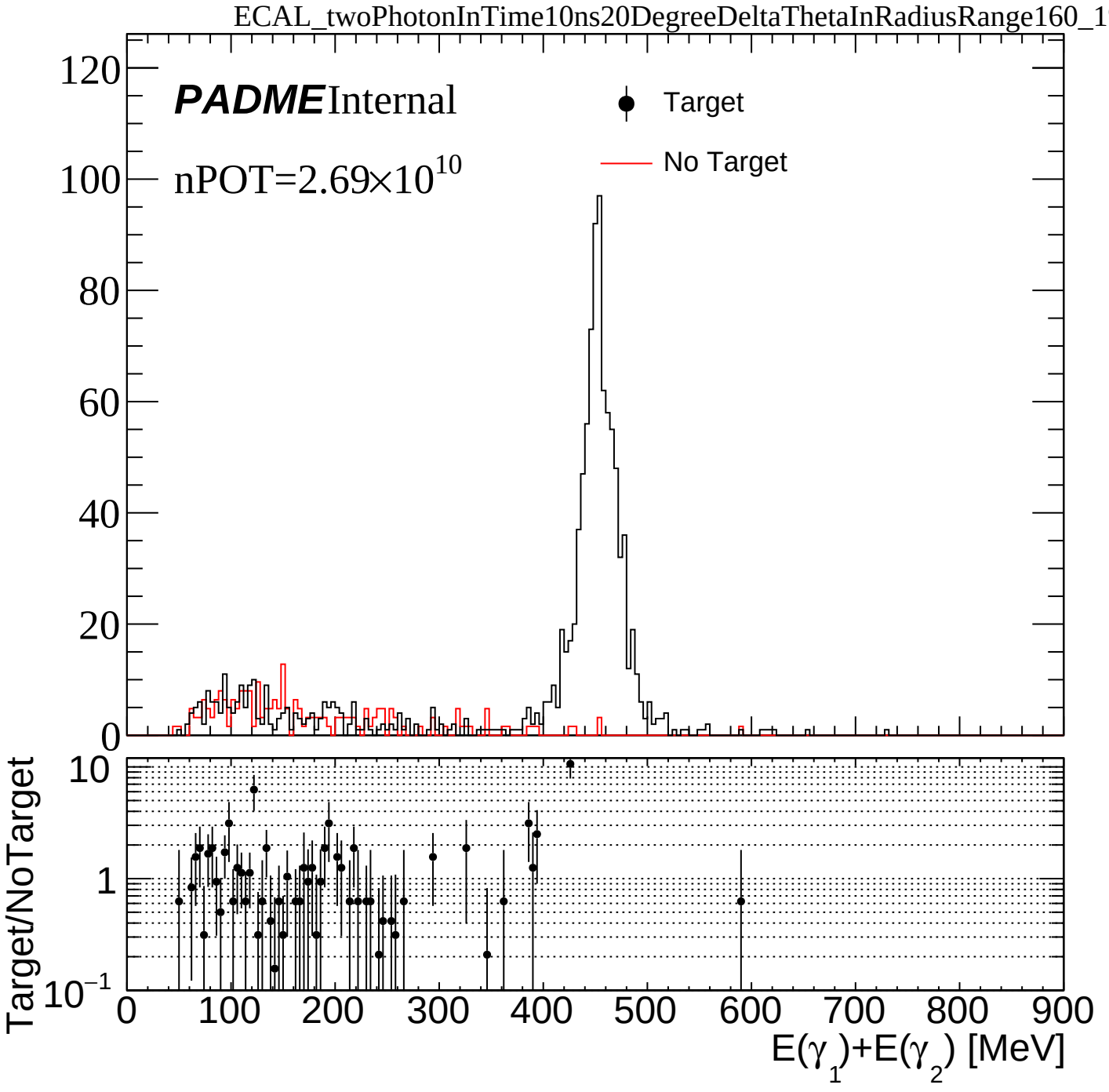

N entries 6880
UnderPeak 7110
600
500
400
300
200
100
0
0 100 200 300 400 500 600 700 800 900

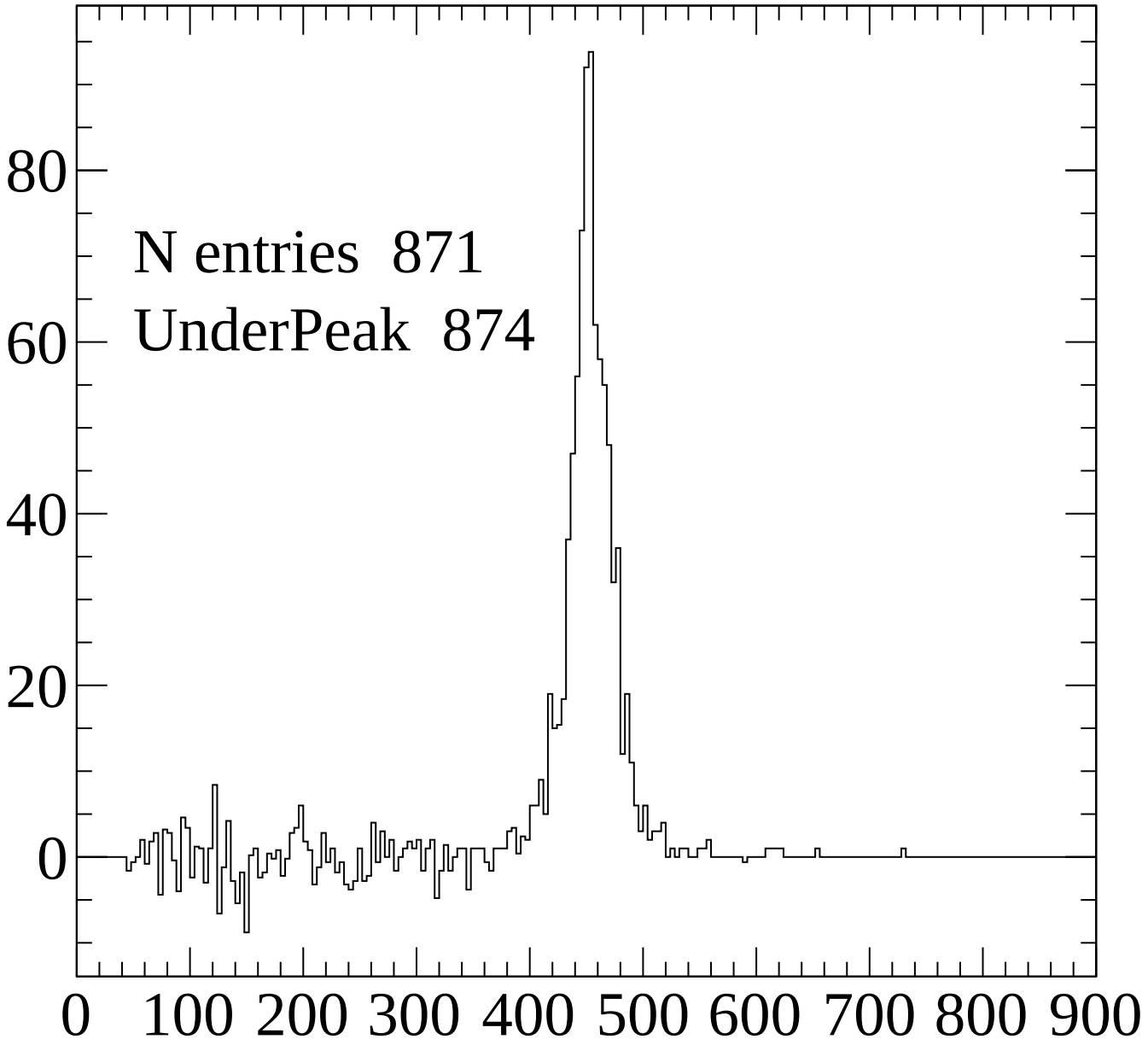

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange130_22
PADME Internal
nPOT=2.69×10^10
Target
No Target
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

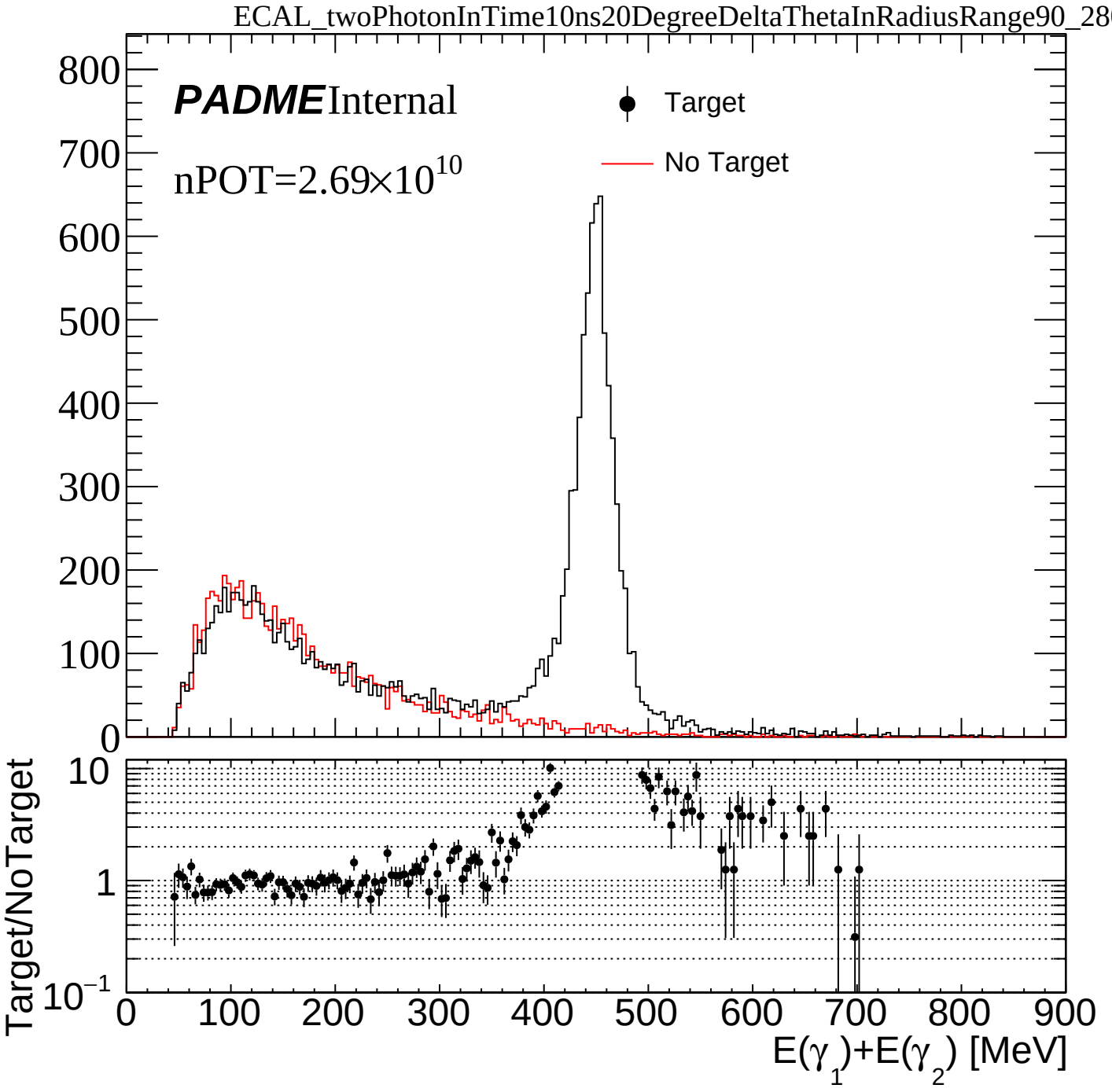

N entries 4411
UnderPeak 4608
400
300
200
100
0
0 100 200 300 400 500 600 700 800 900

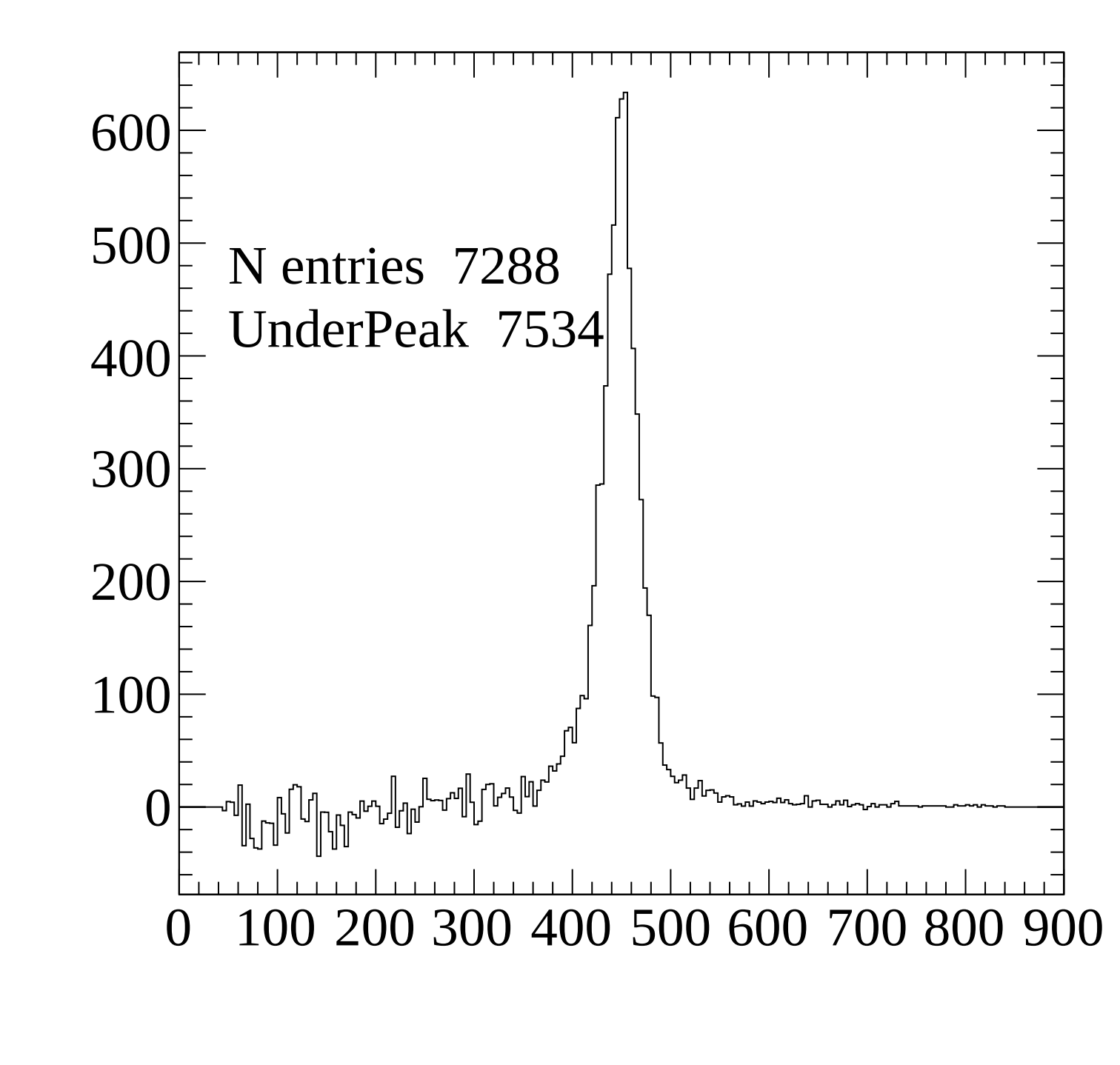

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange150_20
PADME Internal
nPOT=2.69×10^10
Target
No Target
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

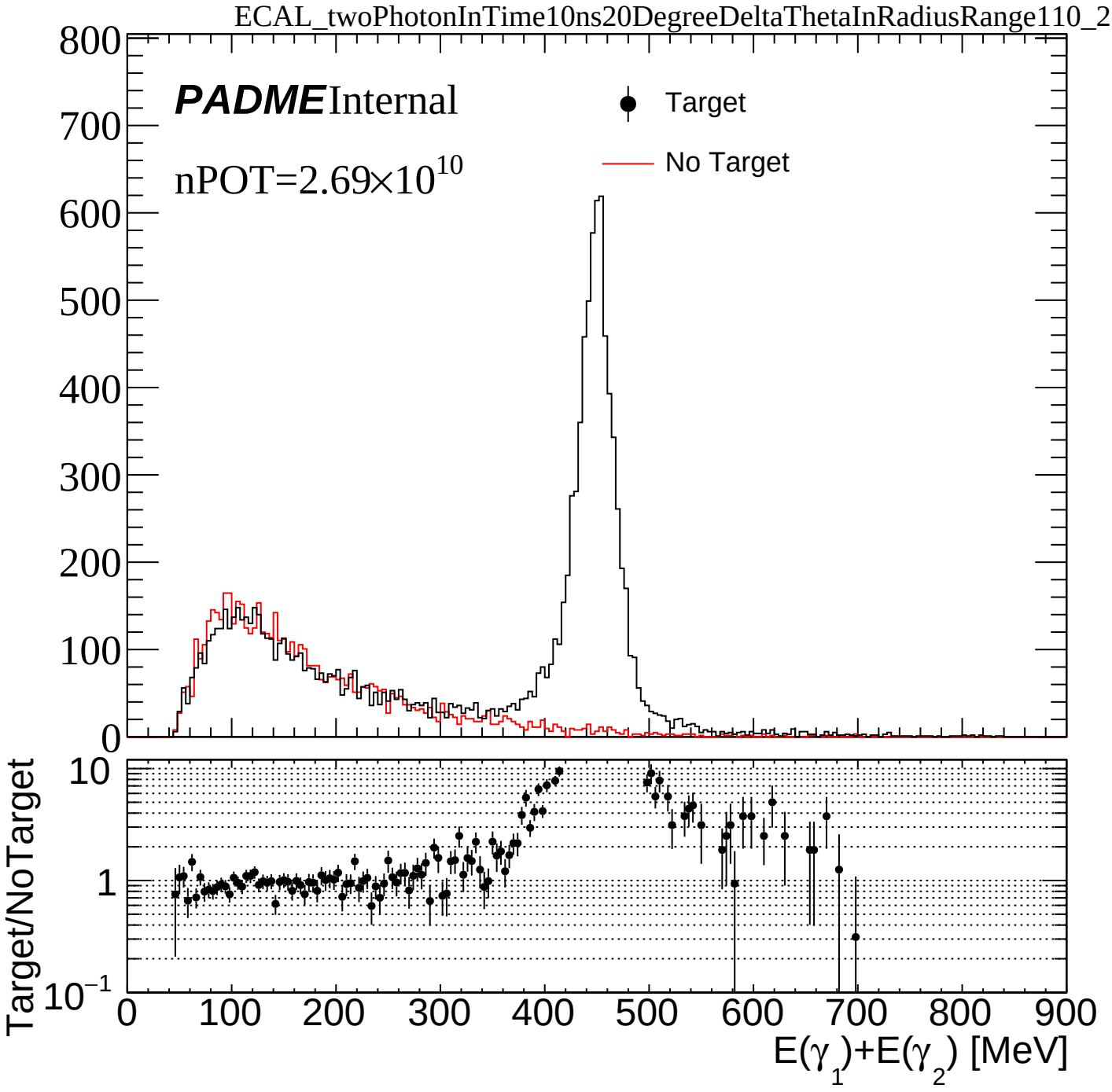

N entries 2155
UnderPeak 2198
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

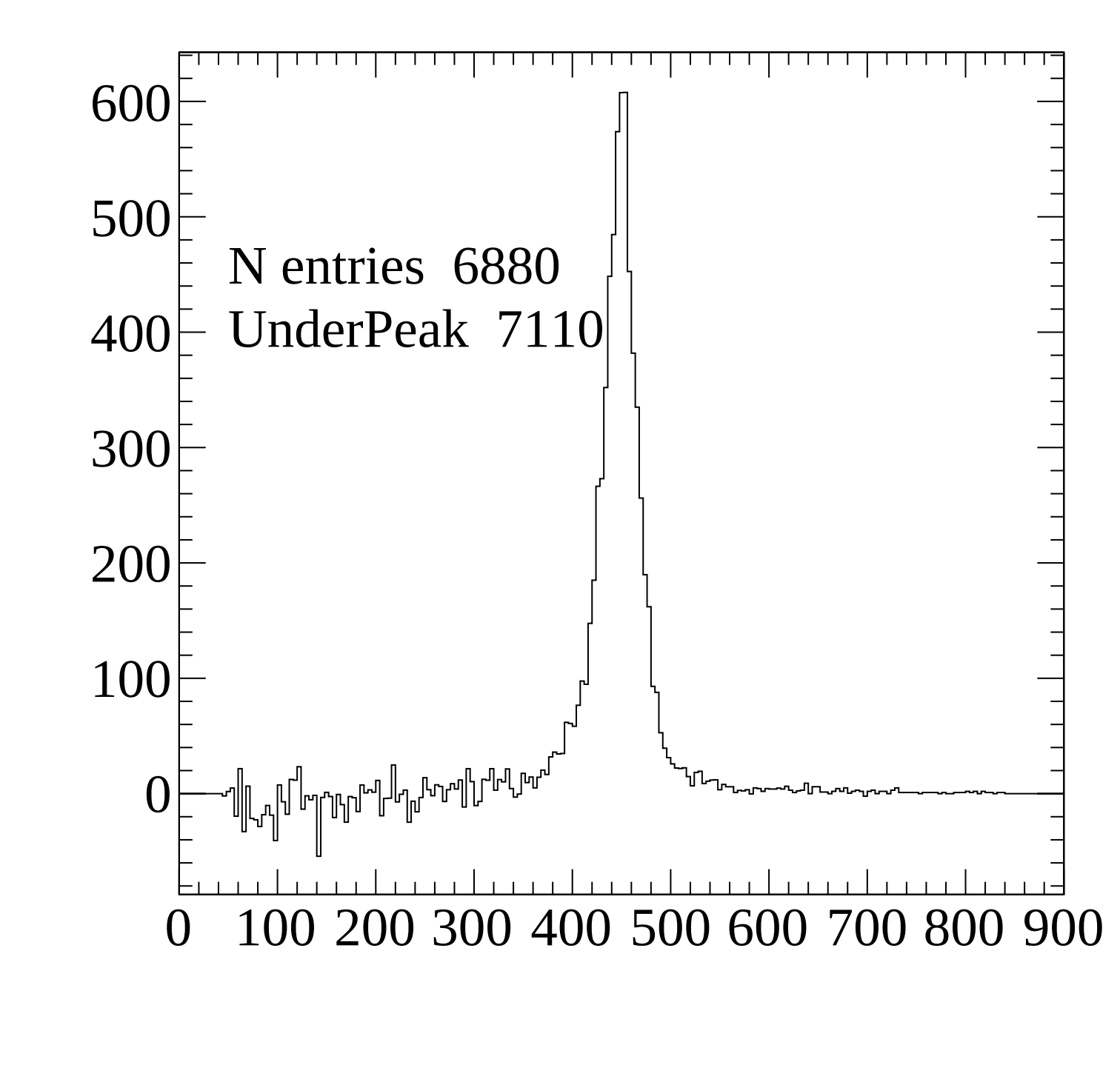

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160_19
PADME Internal
nPOT=2.69×10^10
Target
No Target
120
100
80
60
40
20
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

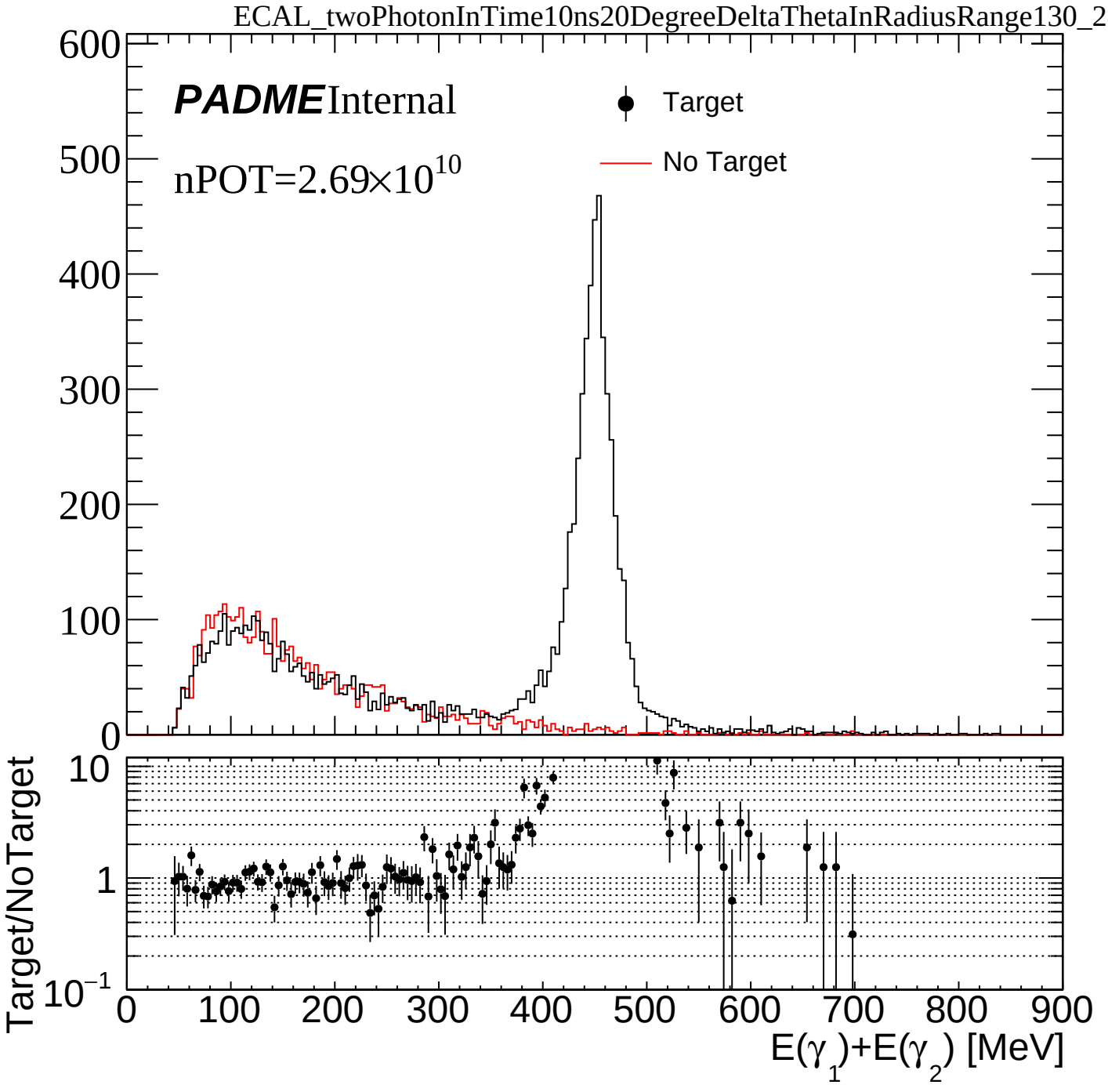

N entries 871
UnderPeak 874
80
60
40
20
0
0
100
200
300
400
500
600
700
800
900

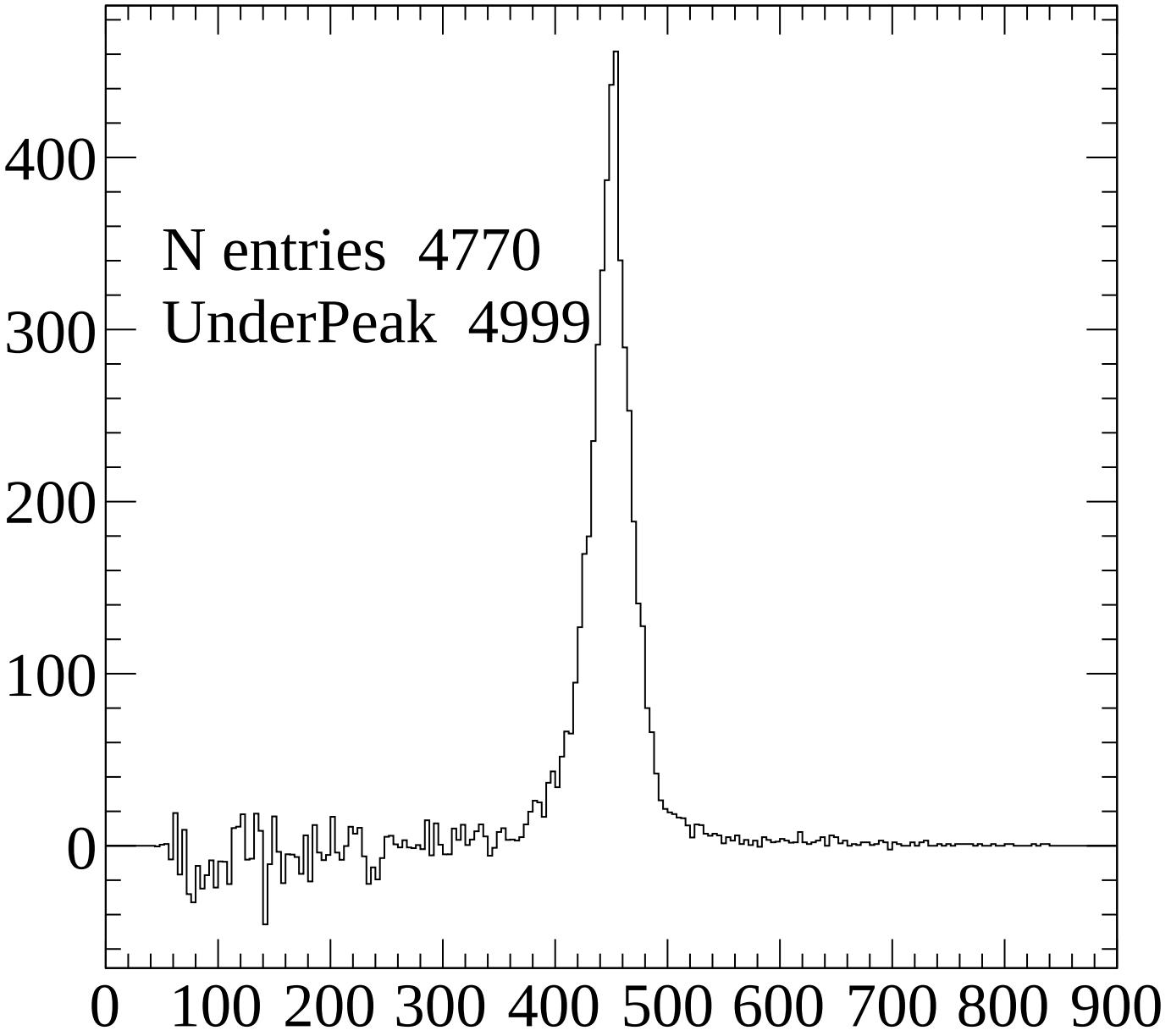

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange90_280
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

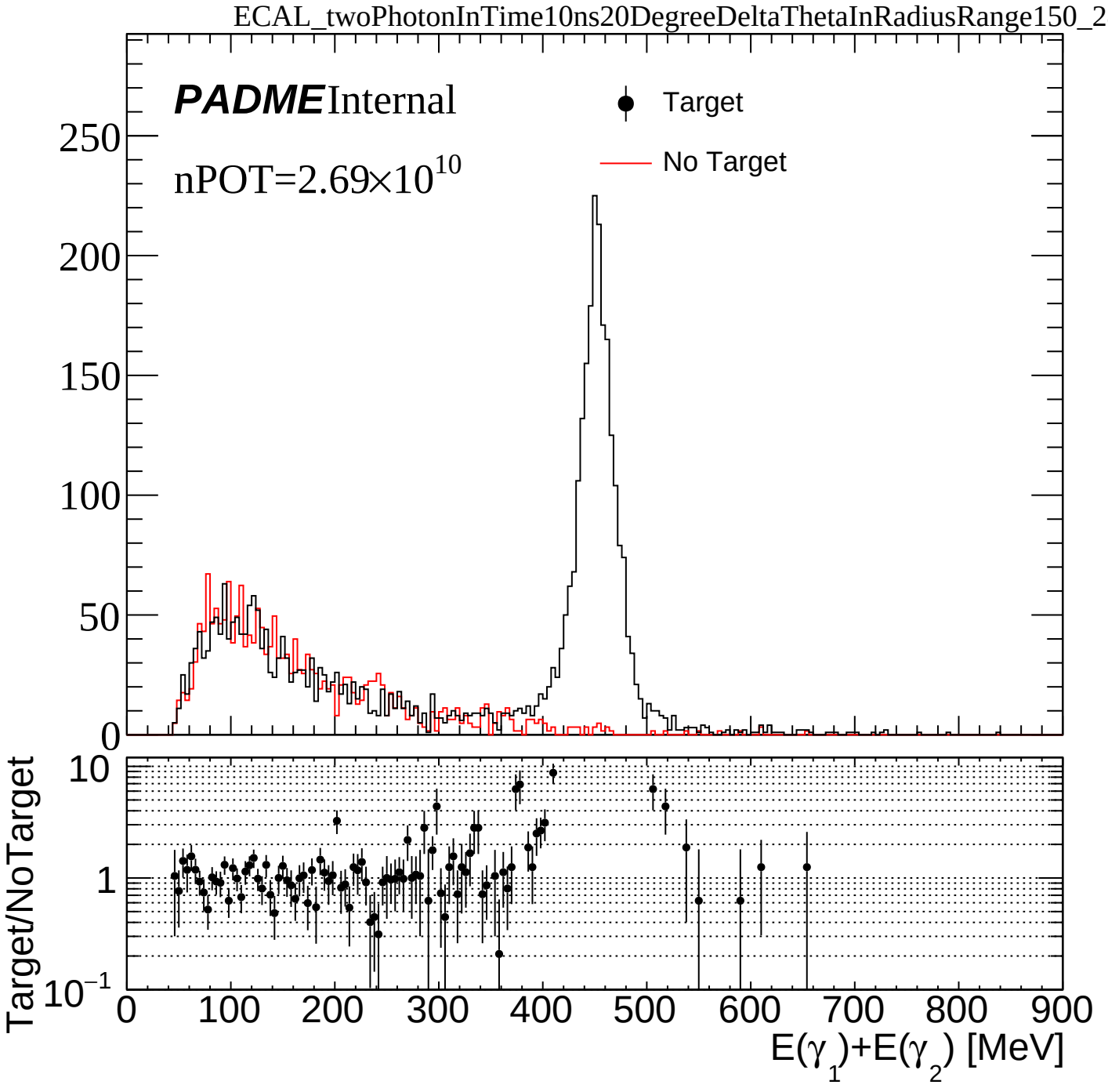

N entries 7288
UnderPeak 7534
600
500
400
300
200
100
0
0
100
200
300
400
500
600
700
800
900

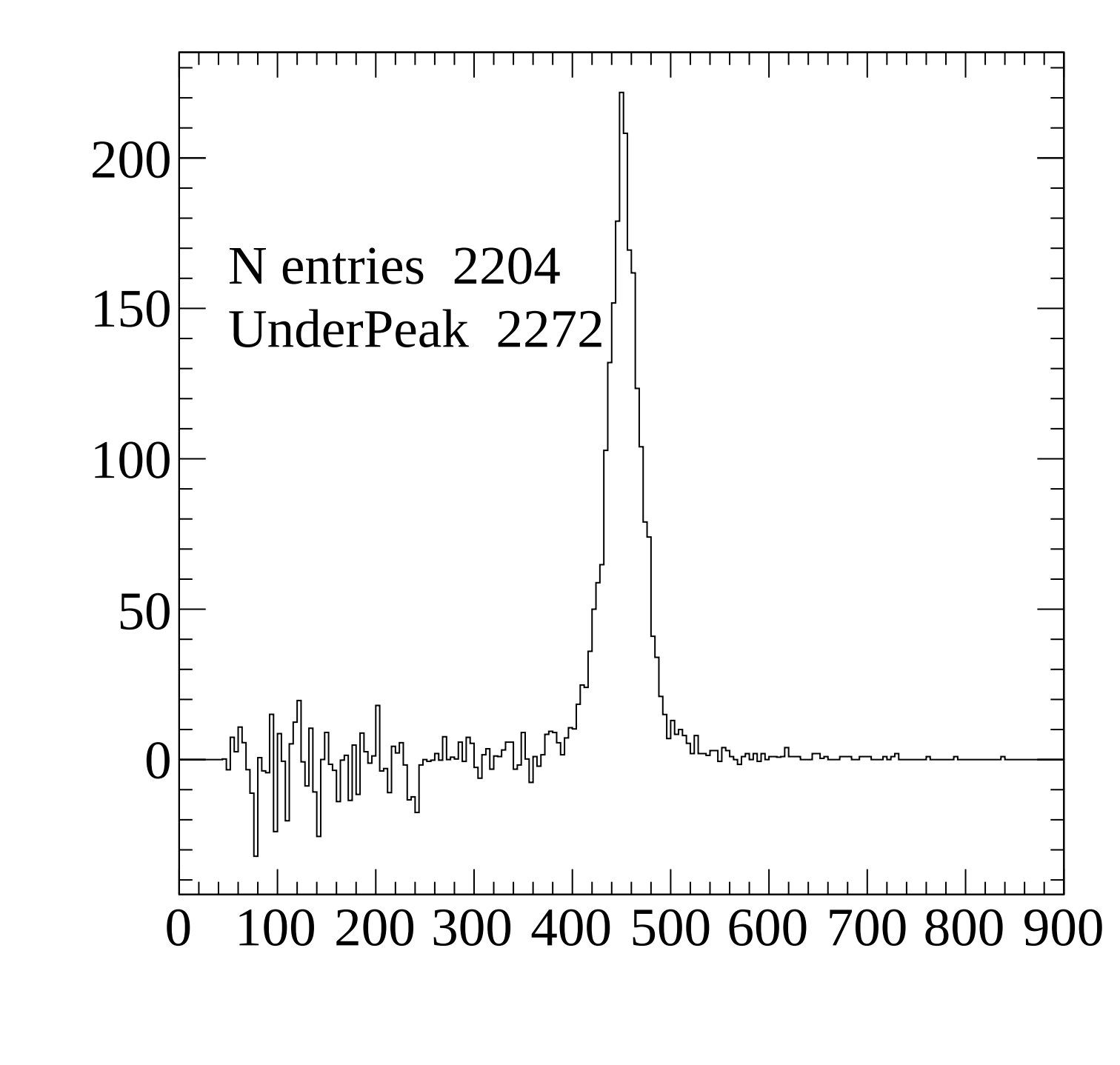

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange110_28
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

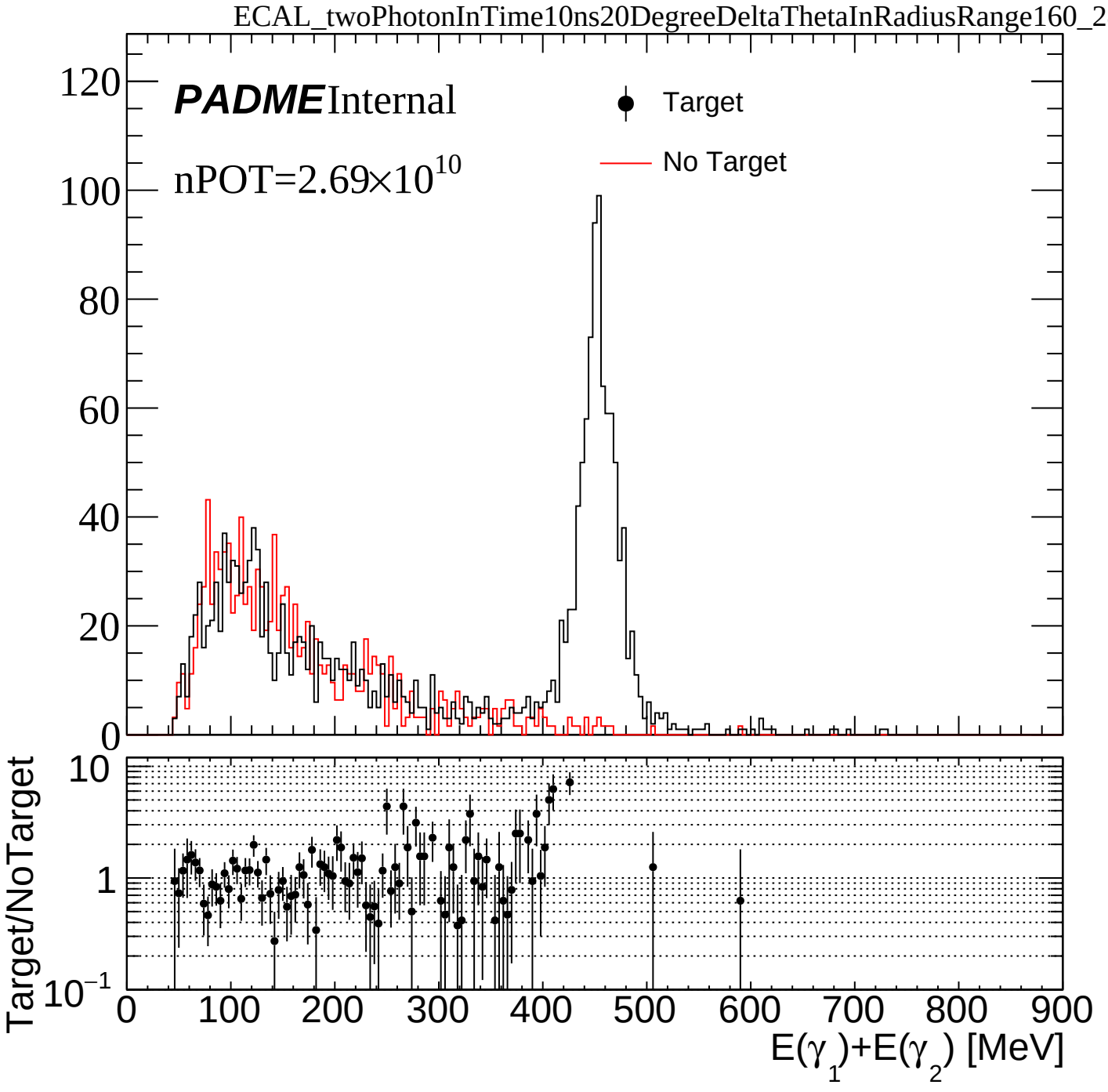

N entries 6880
UnderPeak 7110
600
500
400
300
200
100
0
0 100 200 300 400 500 600 700 800 900

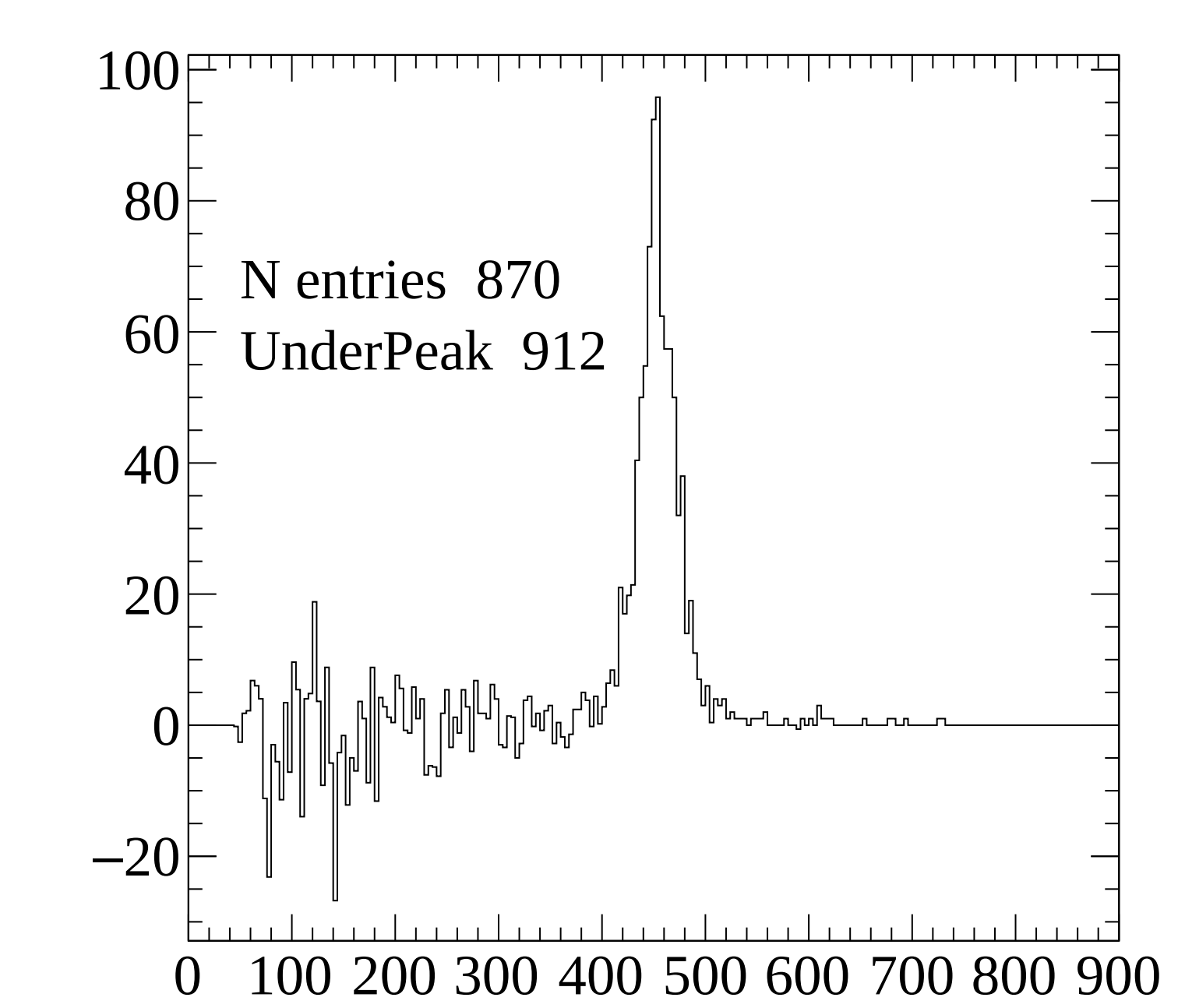

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange130_28
PADME Internal
nPOT=2.69×10^10
Target
No Target
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

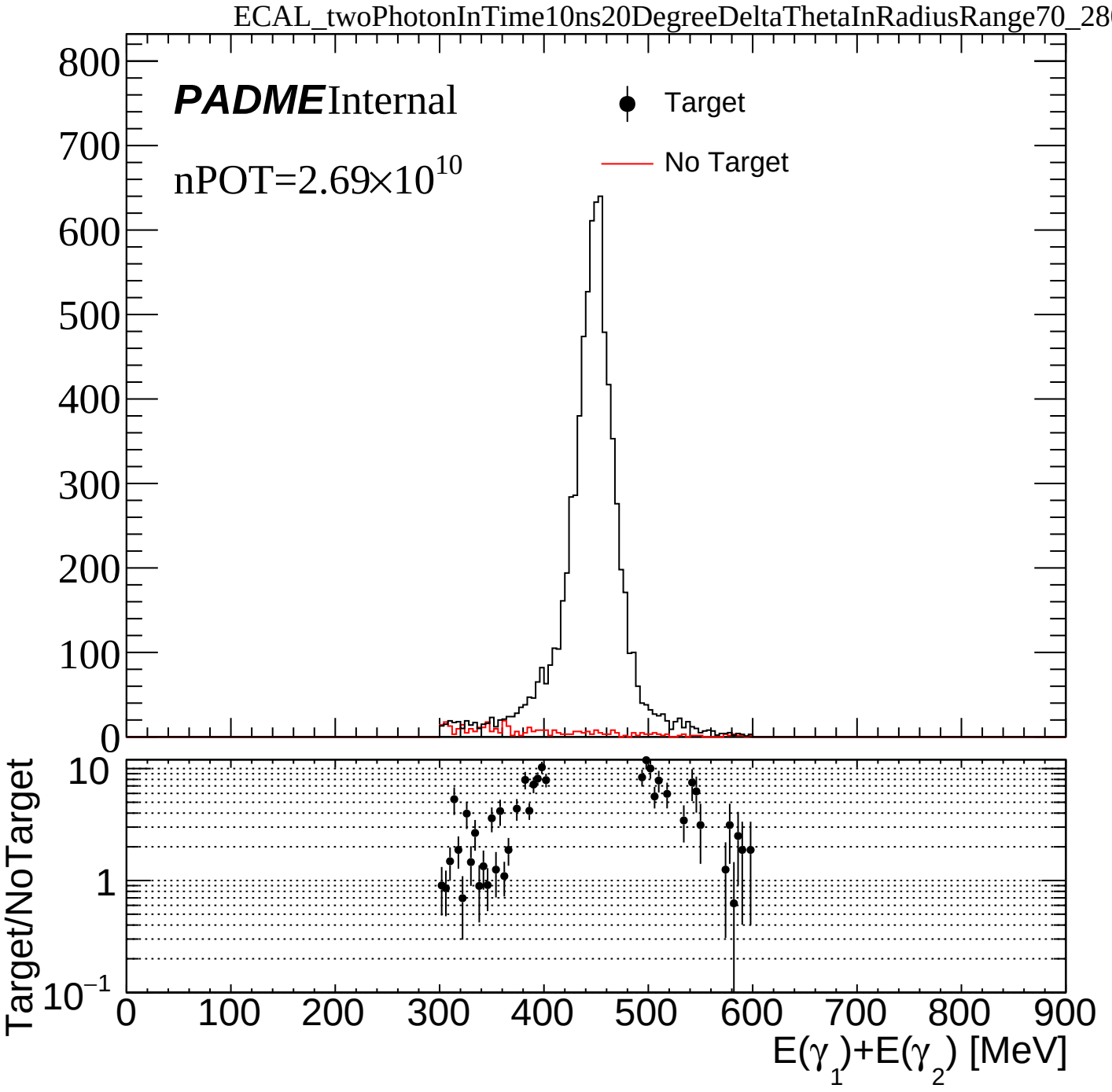

N entries 4770
UnderPeak 4999
400
300
200
100
0
0 100 200 300 400 500 600 700 800 900

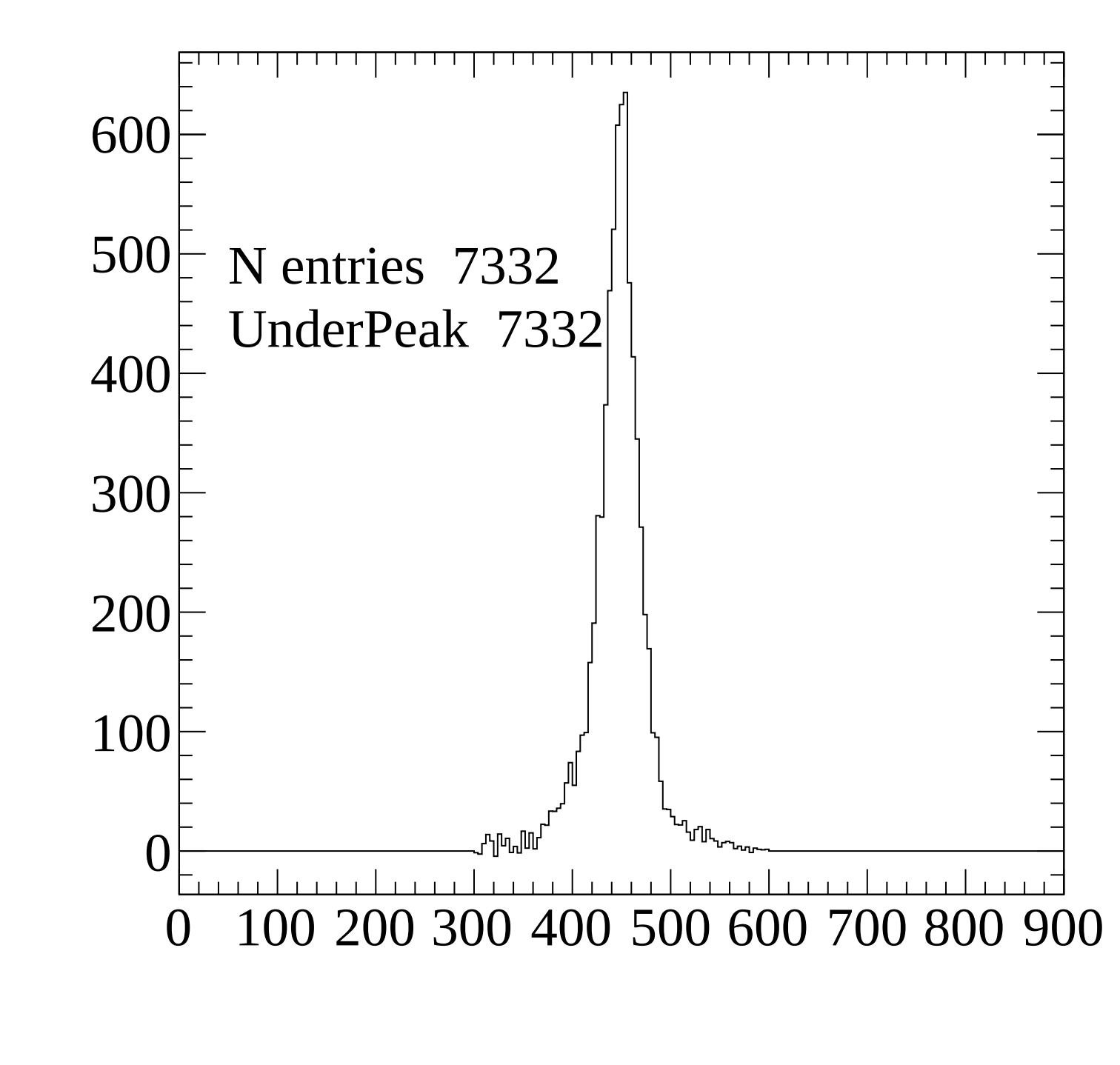

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange150_28
PADME Internal
nPOT=2.69×10^10
Target
No Target
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

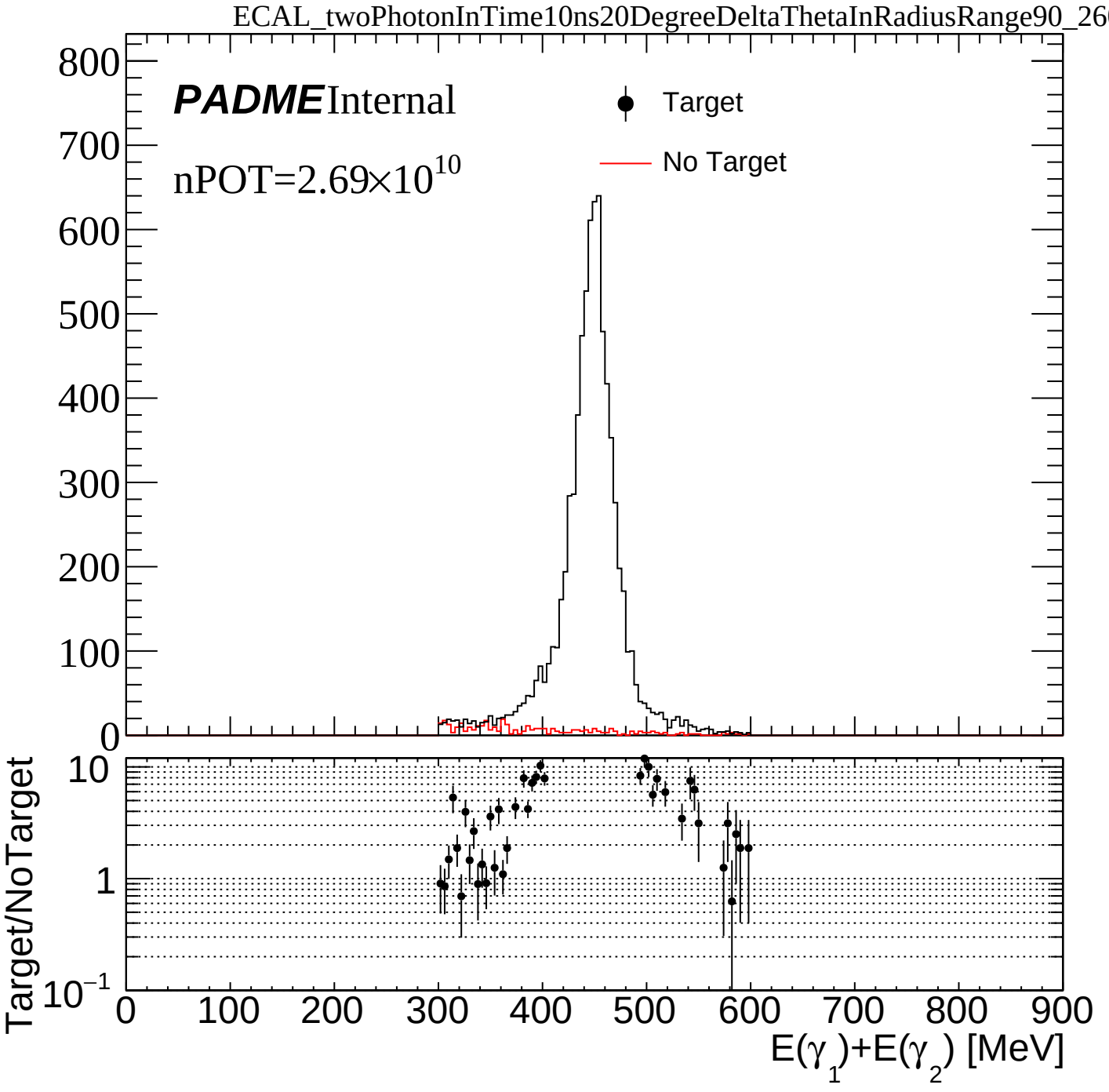

N entries 2204
UnderPeak 2272
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

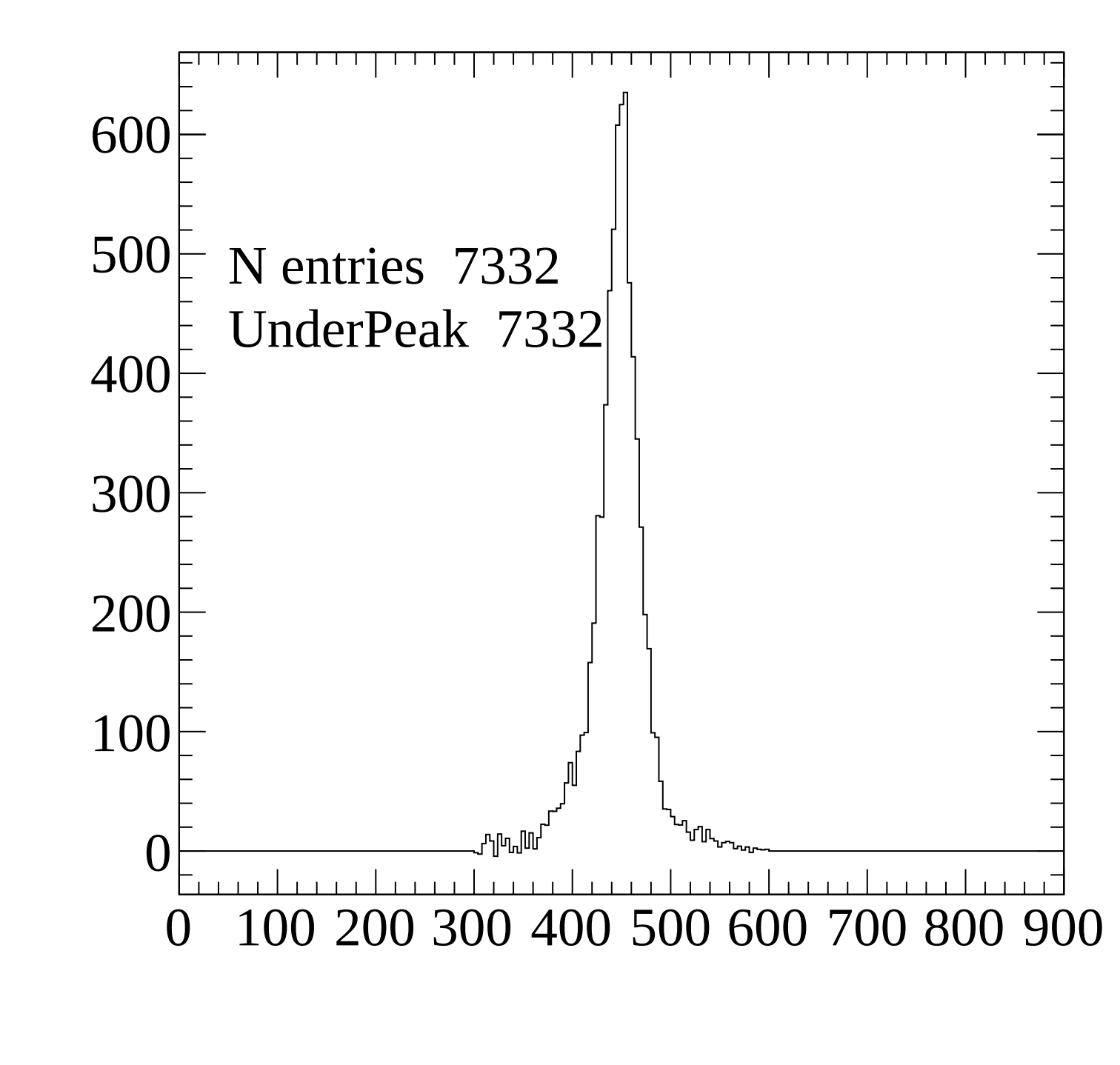

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160_28
PADME Internal
nPOT=2.69×10^10
Target
No Target
120
100
80
60
40
20
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

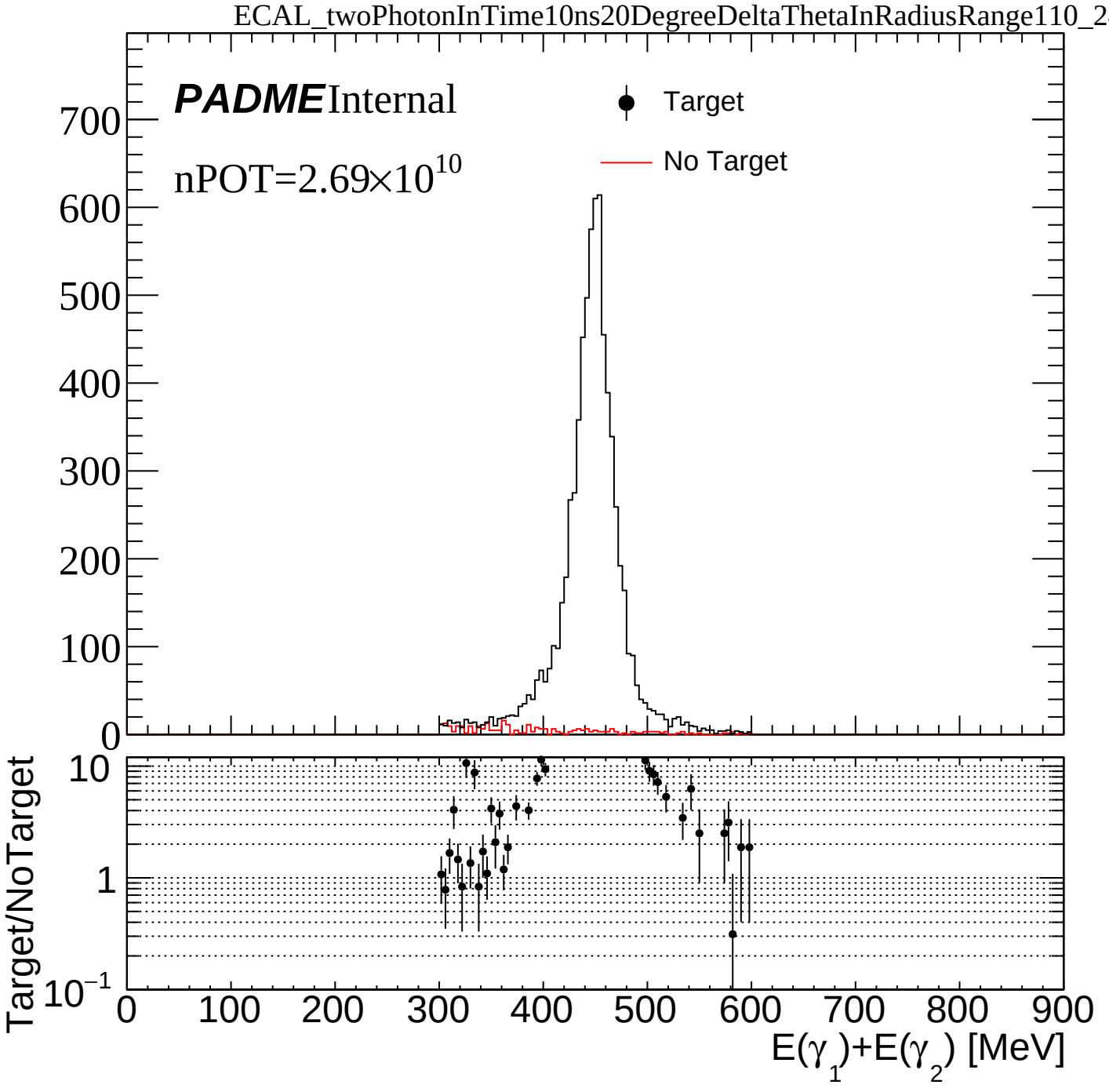

N entries 870
UnderPeak 912
100
80
60
40
20
0
−20
0
100
200
300
400
500
600
700
800
900

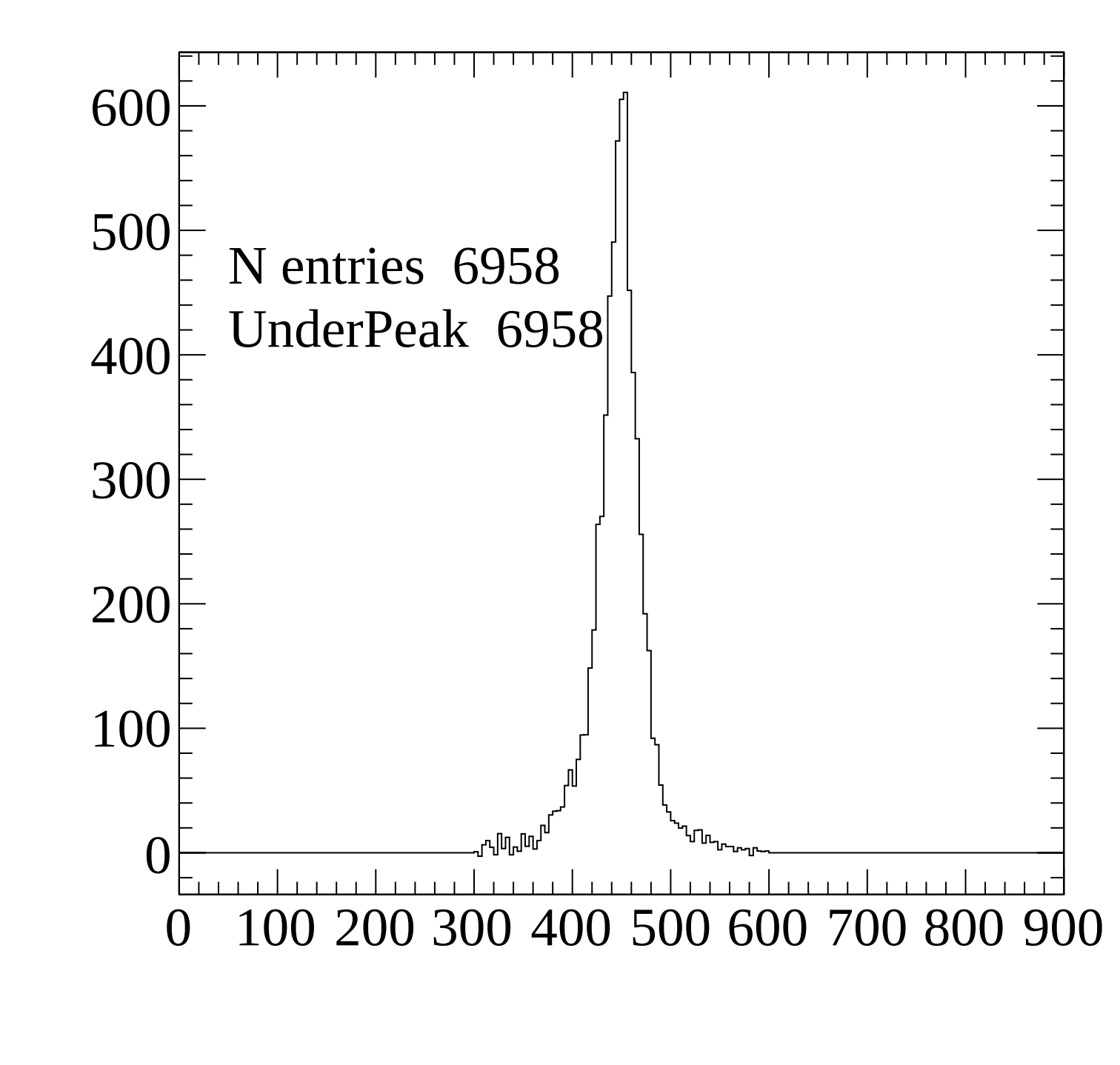

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange70_280
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

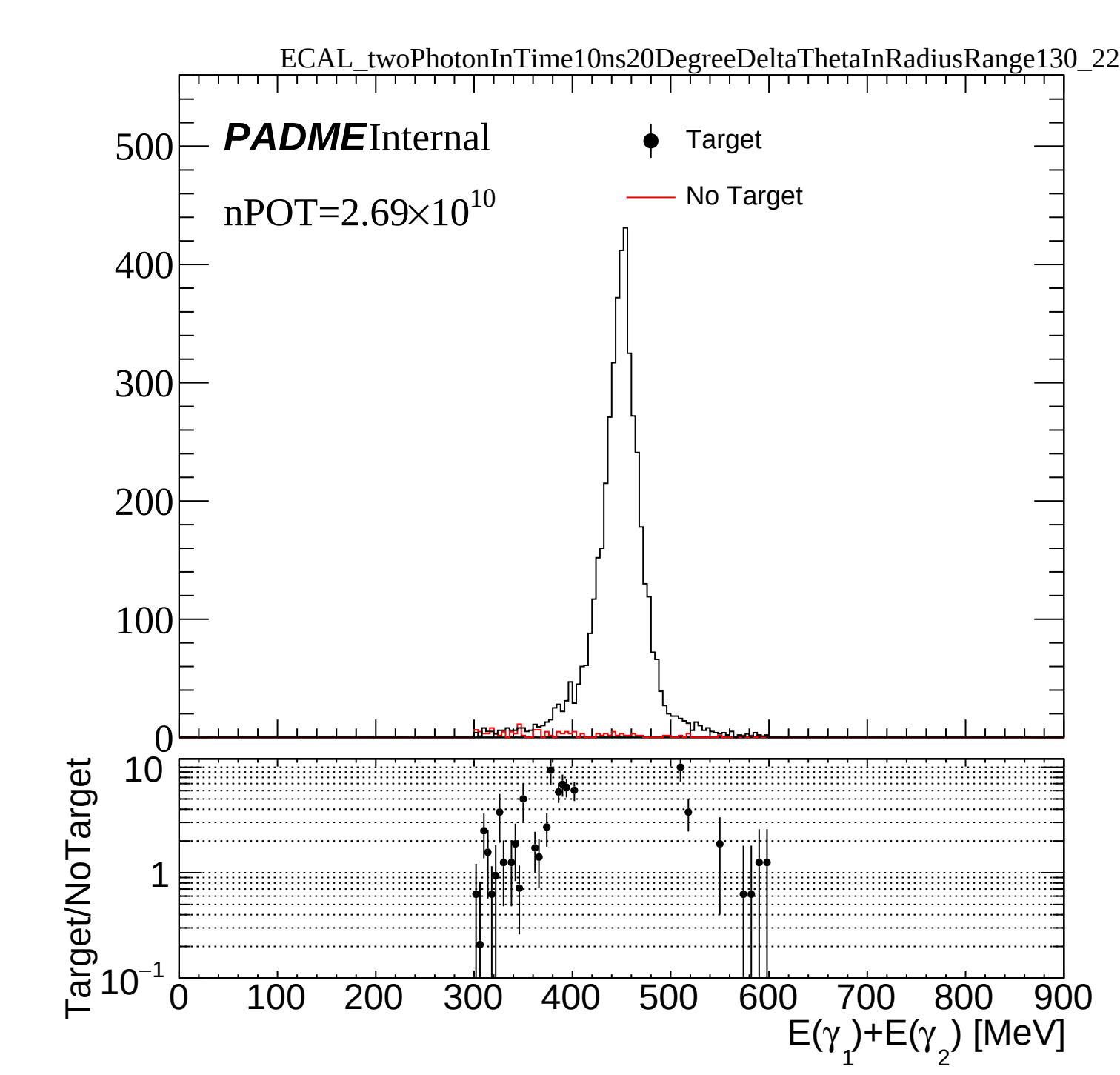

N entries 7332
UnderPeak 7332
600
500
400
300
200
100
0
0 100 200 300 400 500 600 700 800 900

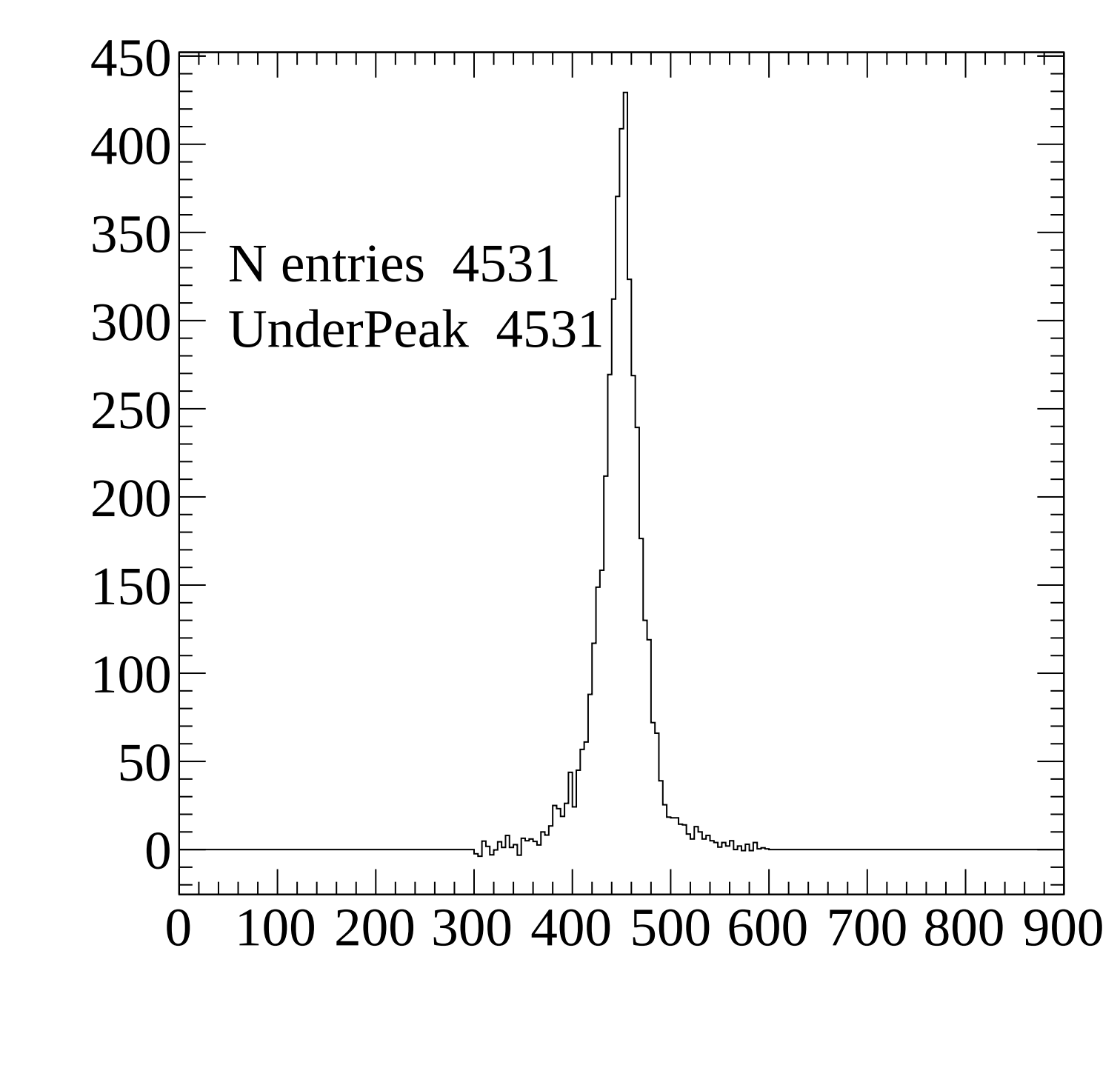

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange90_260
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

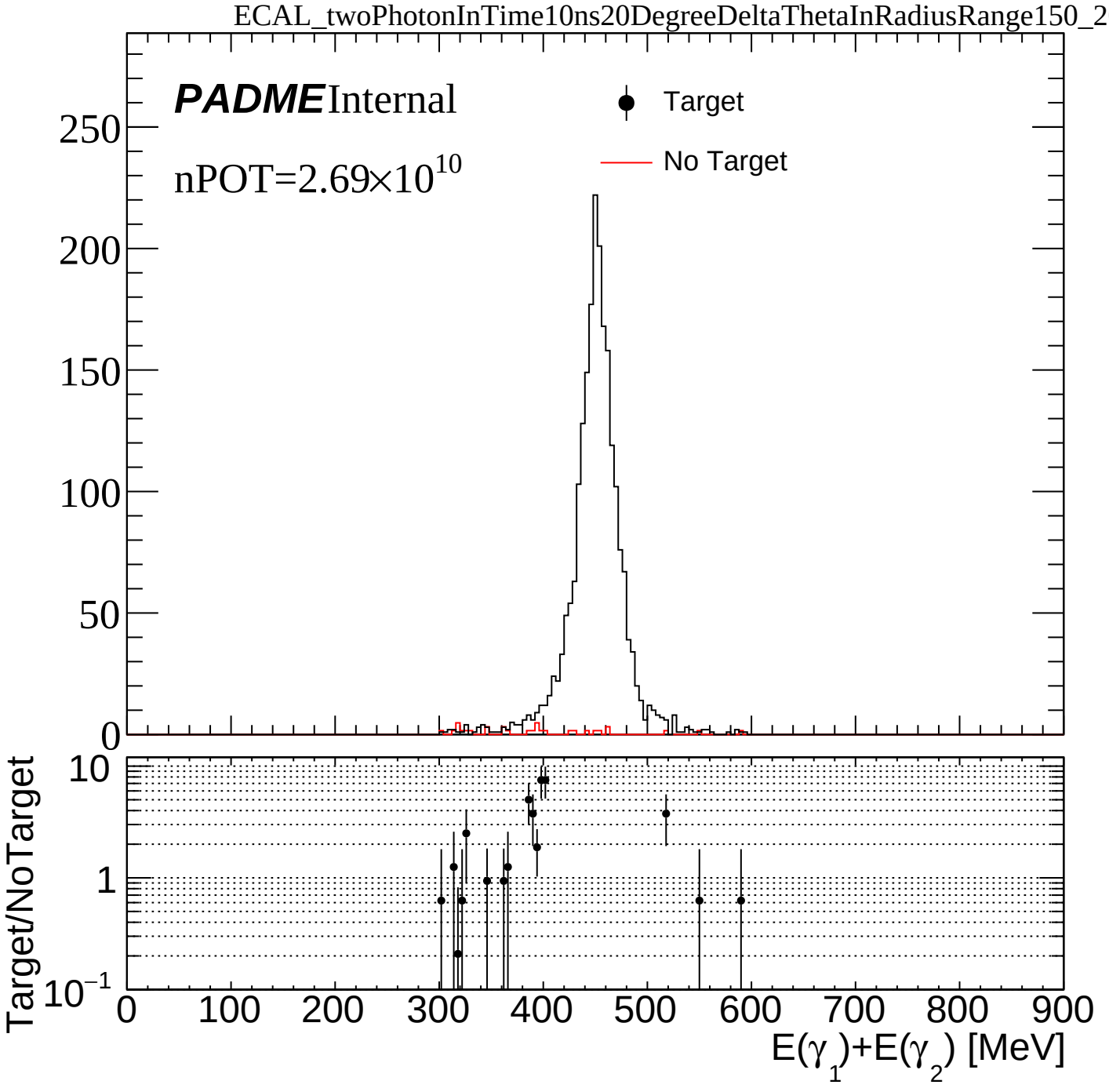

N entries 7332
UnderPeak 7332
600
500
400
300
200
100
0
0 100 200 300 400 500 600 700 800 900

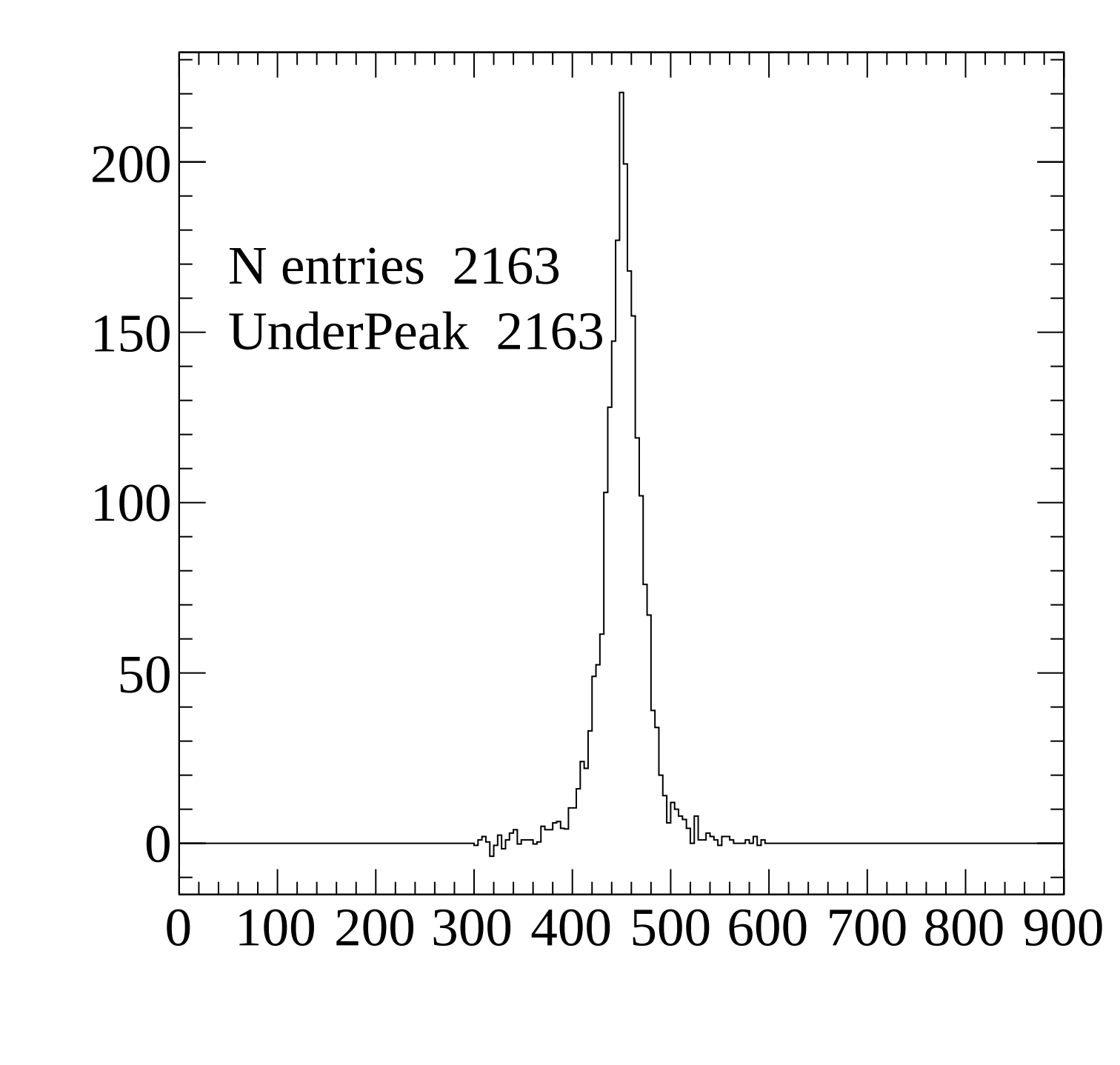

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange110_24
PADME Internal
nPOT=2.69×10^10
Target
No Target
700
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

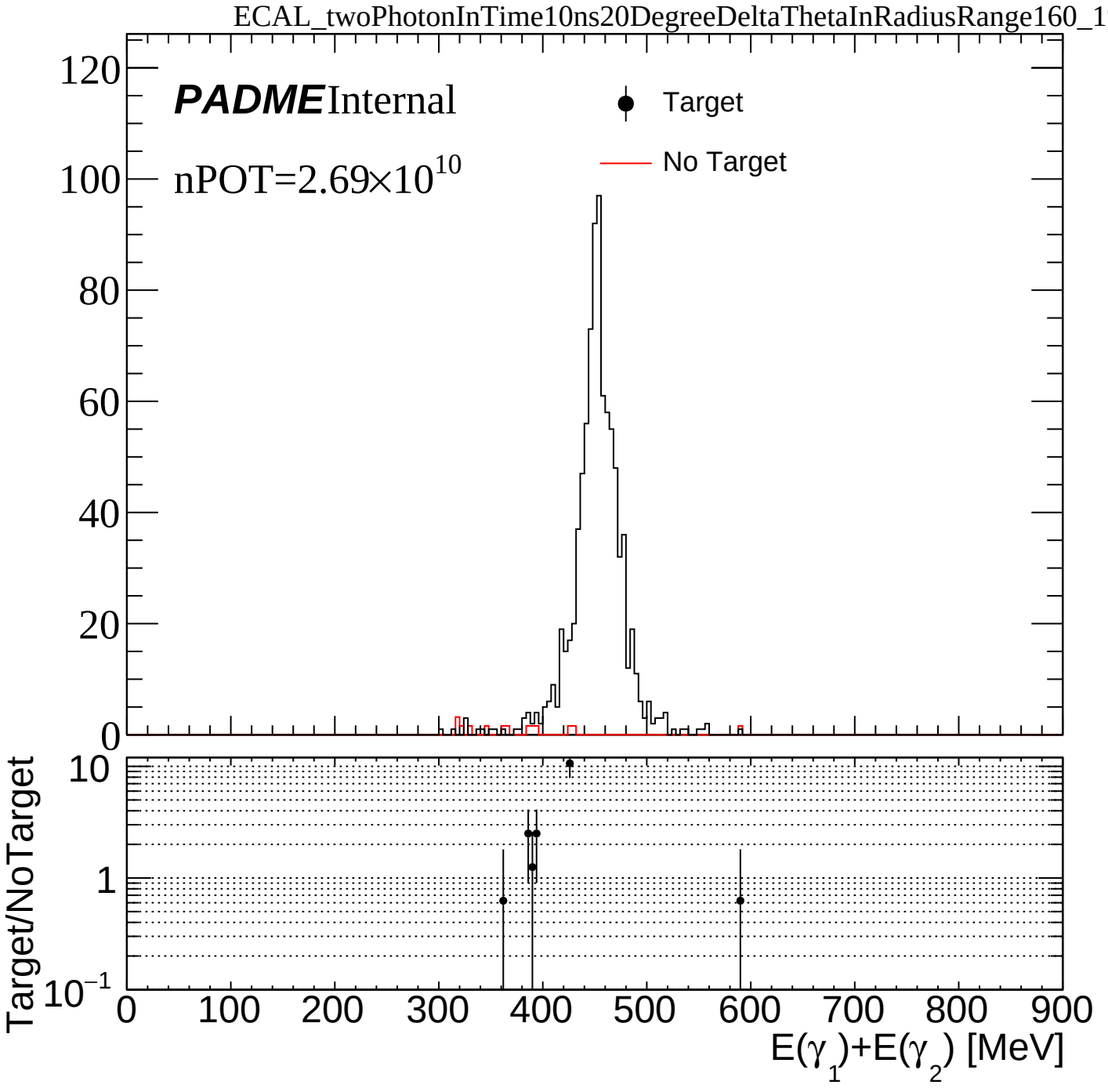

N entries 6958
UnderPeak 6958
600
500
400
300
200
100
0
0 100 200 300 400 500 600 700 800 900

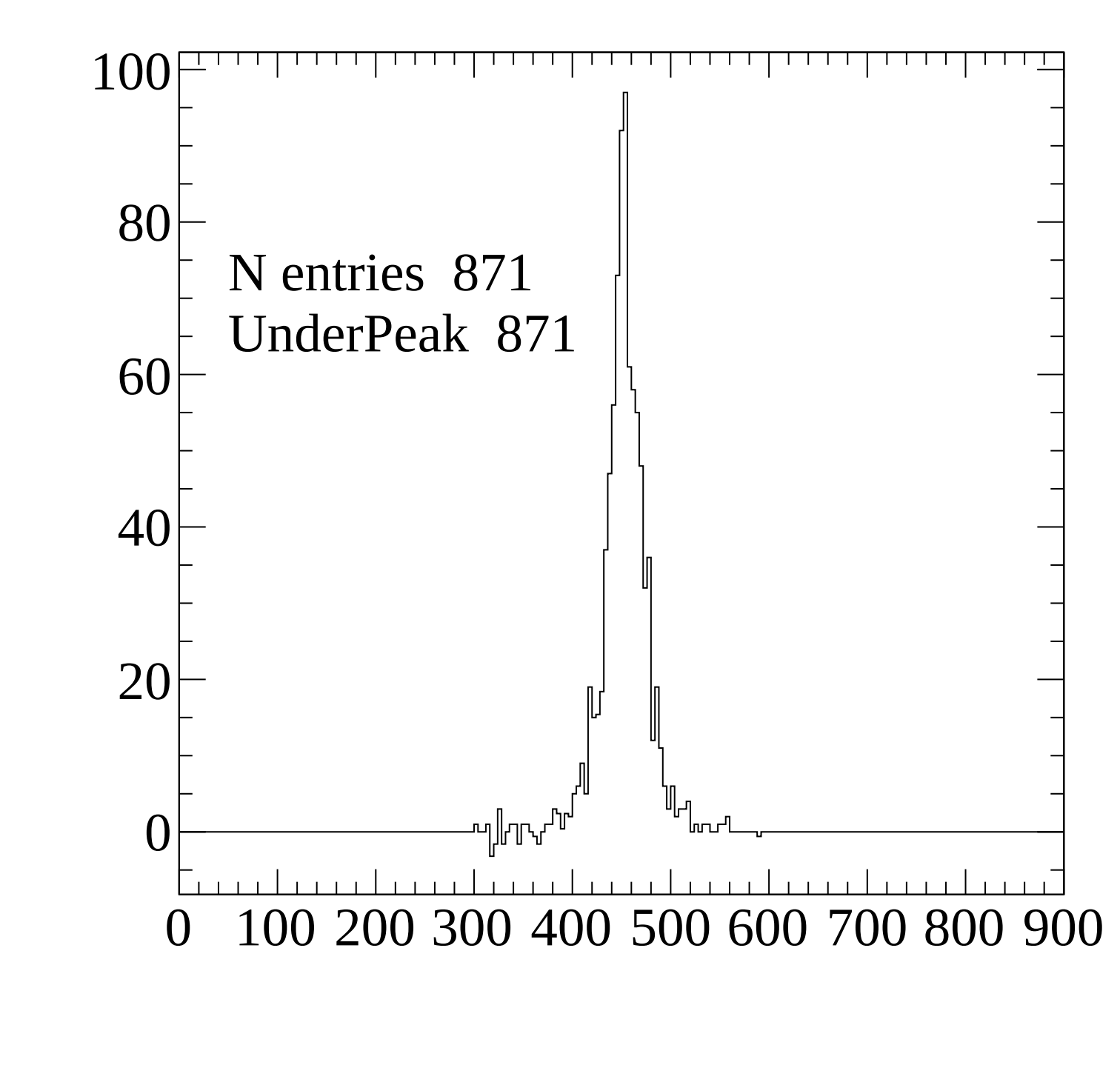

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange130_22
PADME Internal
nPOT=2.69×10^10
Target
No Target
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

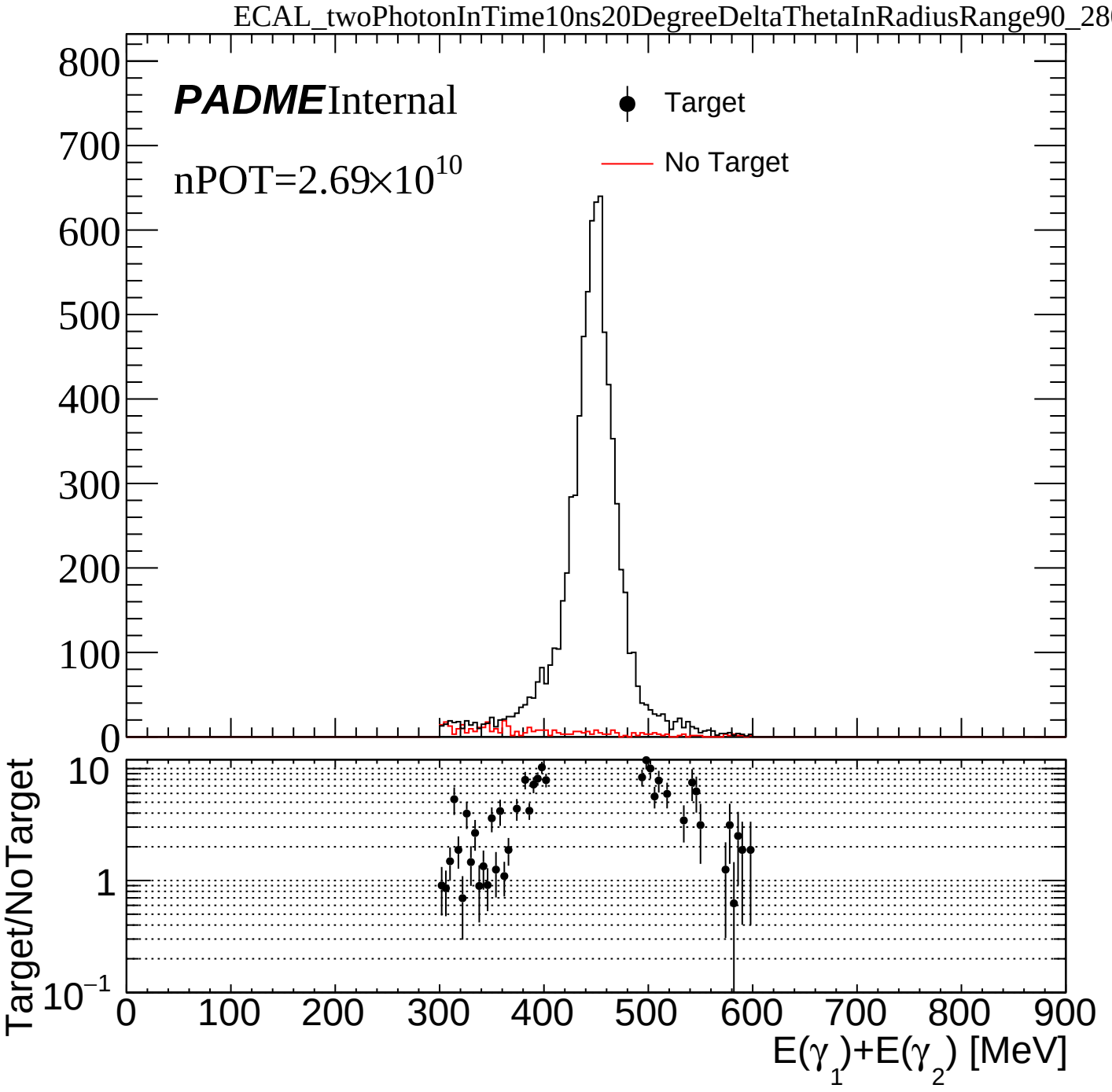

N entries 4531
UnderPeak 4531
450
400
350
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

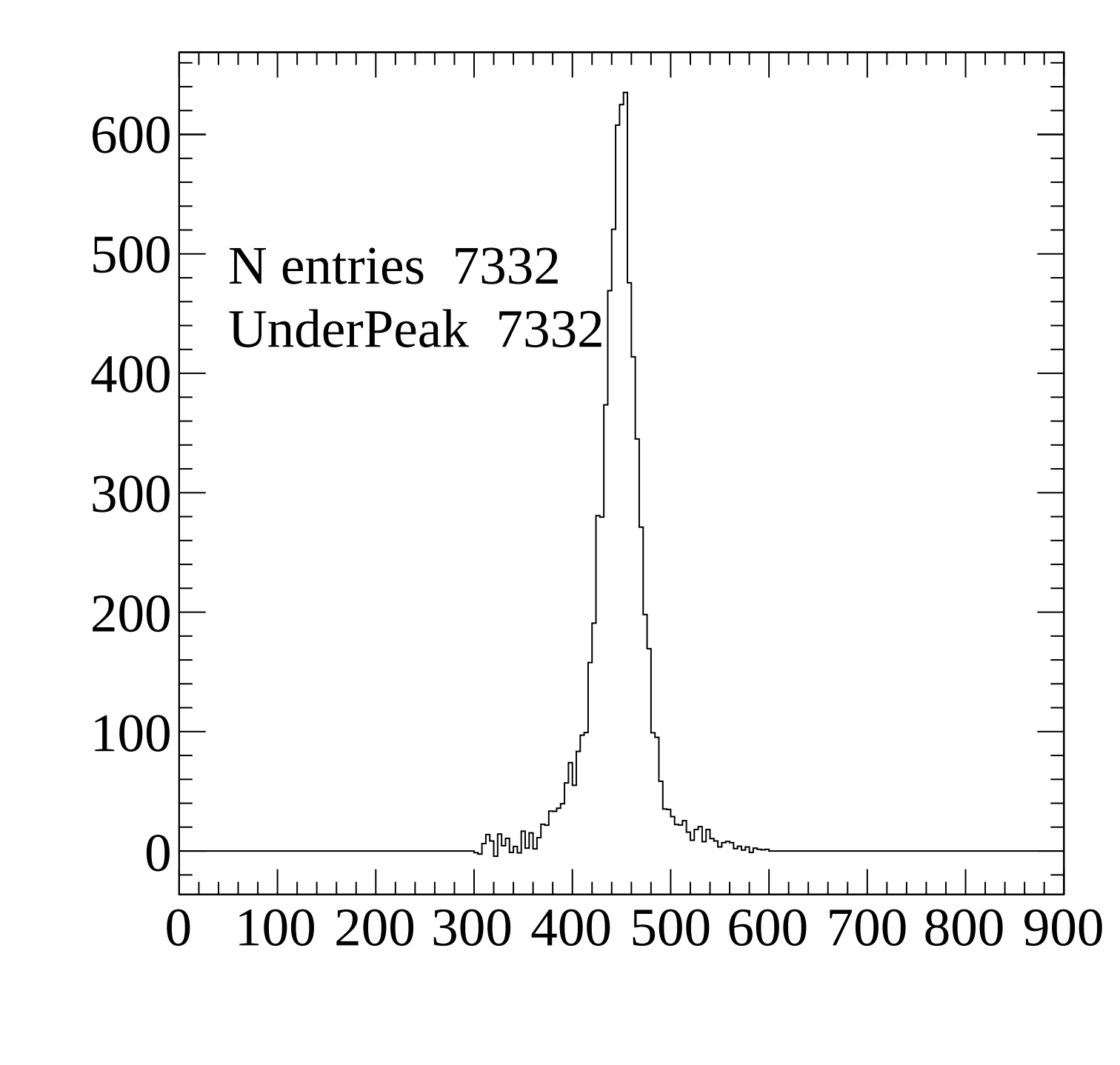

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange150_20
PADME Internal
nPOT=2.69×10^10
Target
No Target
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

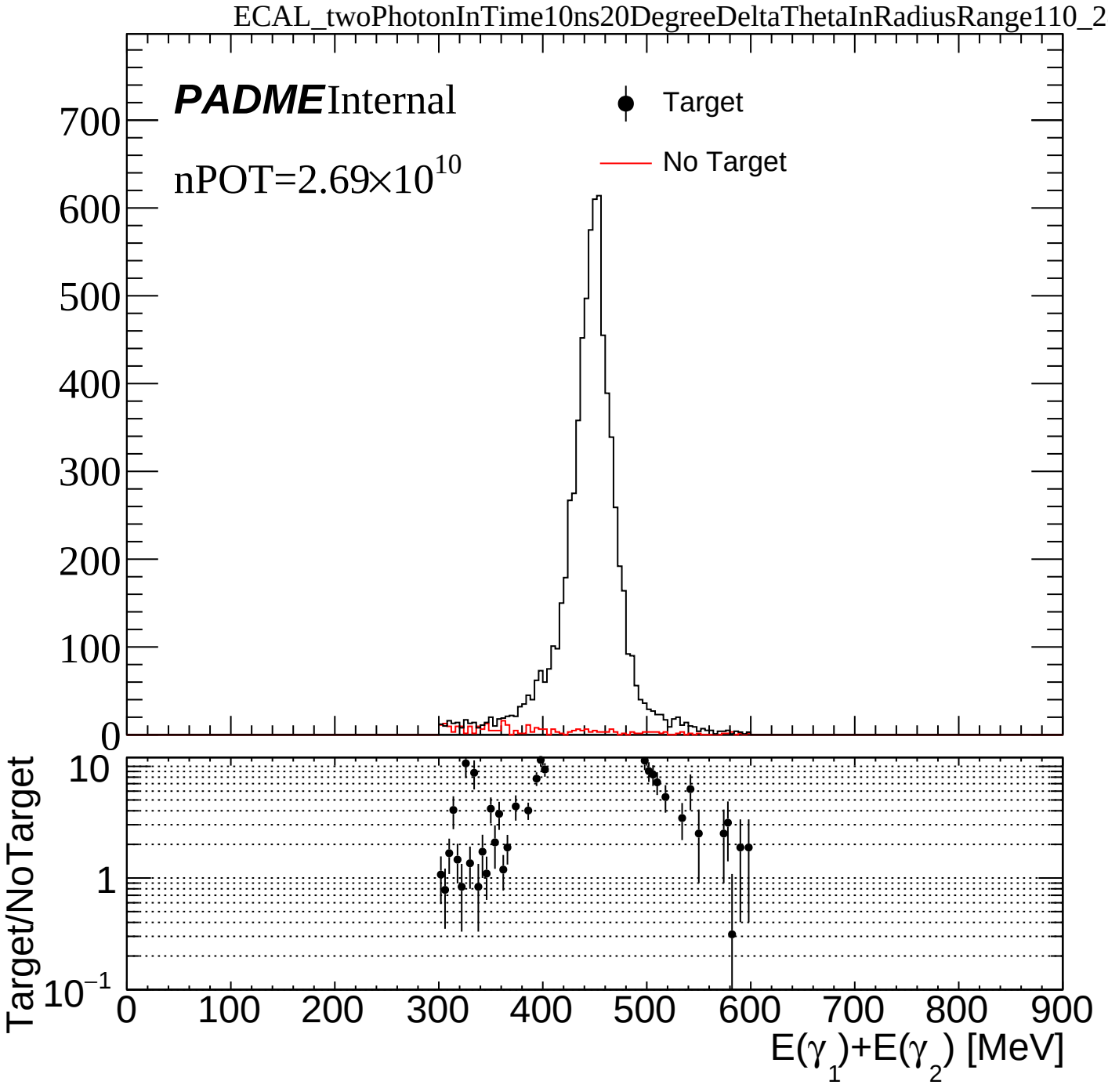

N entries 2163
UnderPeak 2163
200
150
100
50
0
0 100 200 300 400 500 600 700 800 900

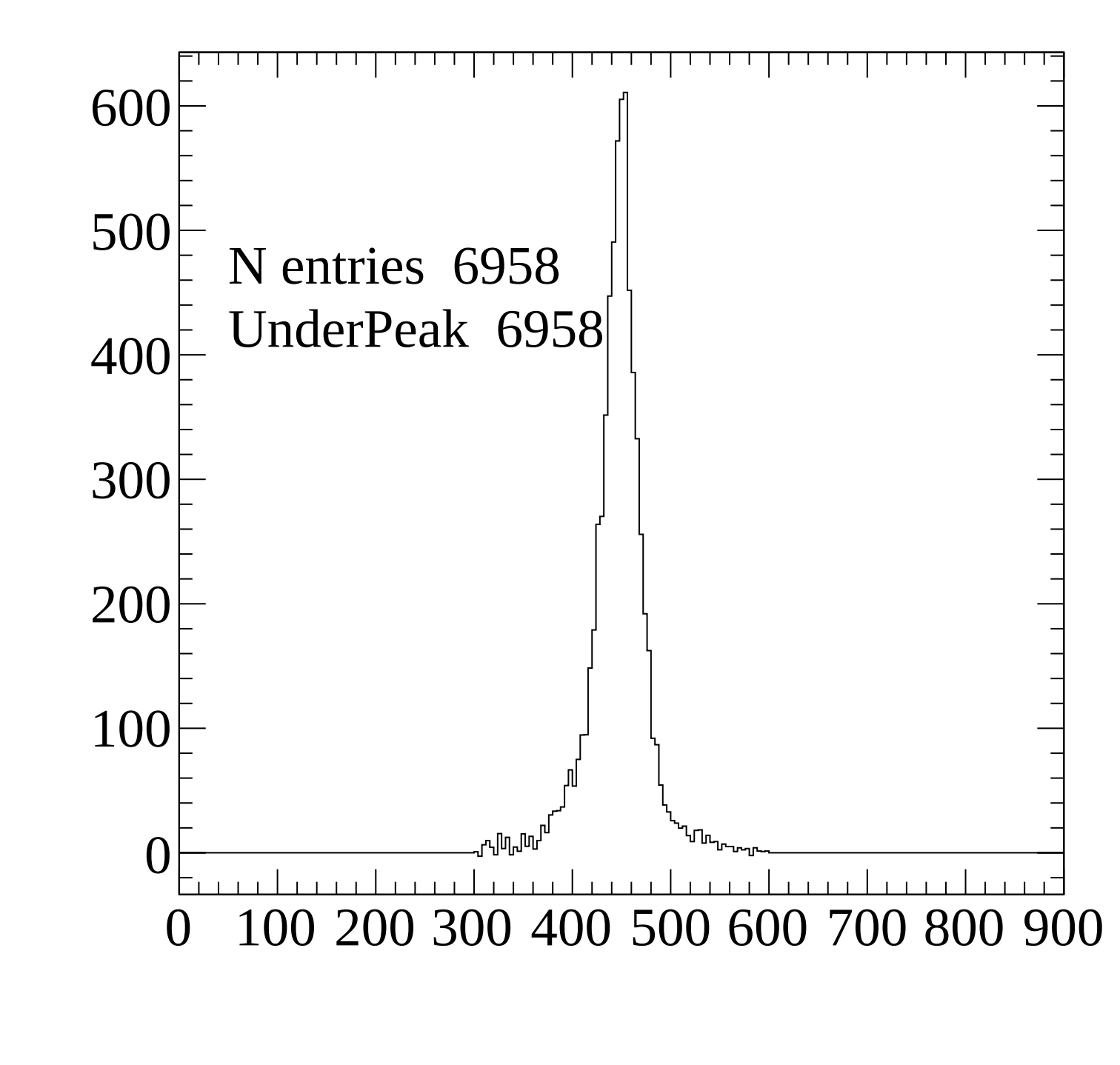

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160_19
PADME Internal
nPOT=2.69×10^10
Target
No Target
120
100
80
60
40
20
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ_1)+E(γ_2) [MeV]

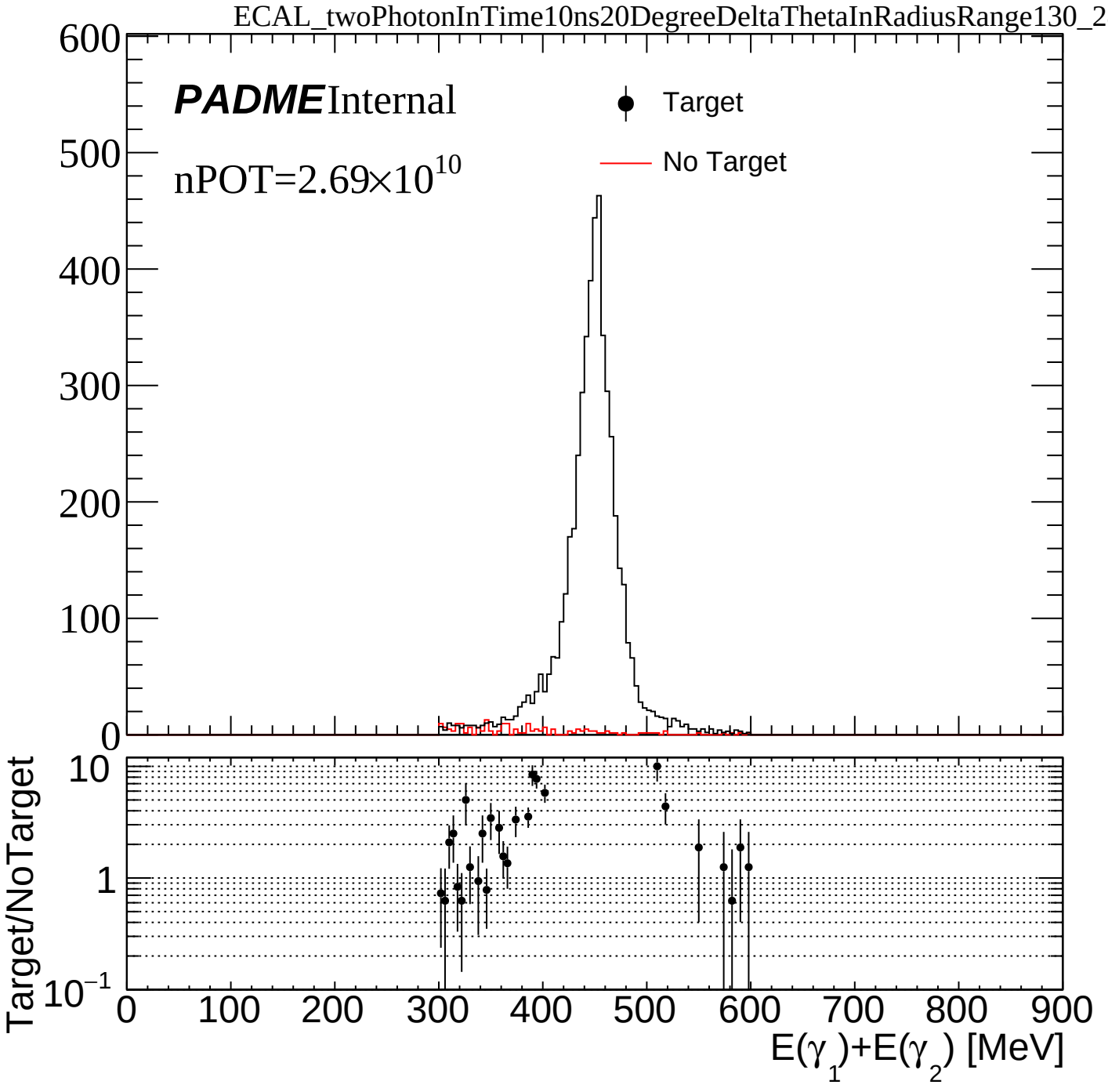

N entries 871
UnderPeak 871
100
80
60
40
20
0
0
100
200
300
400
500
600
700
800
900

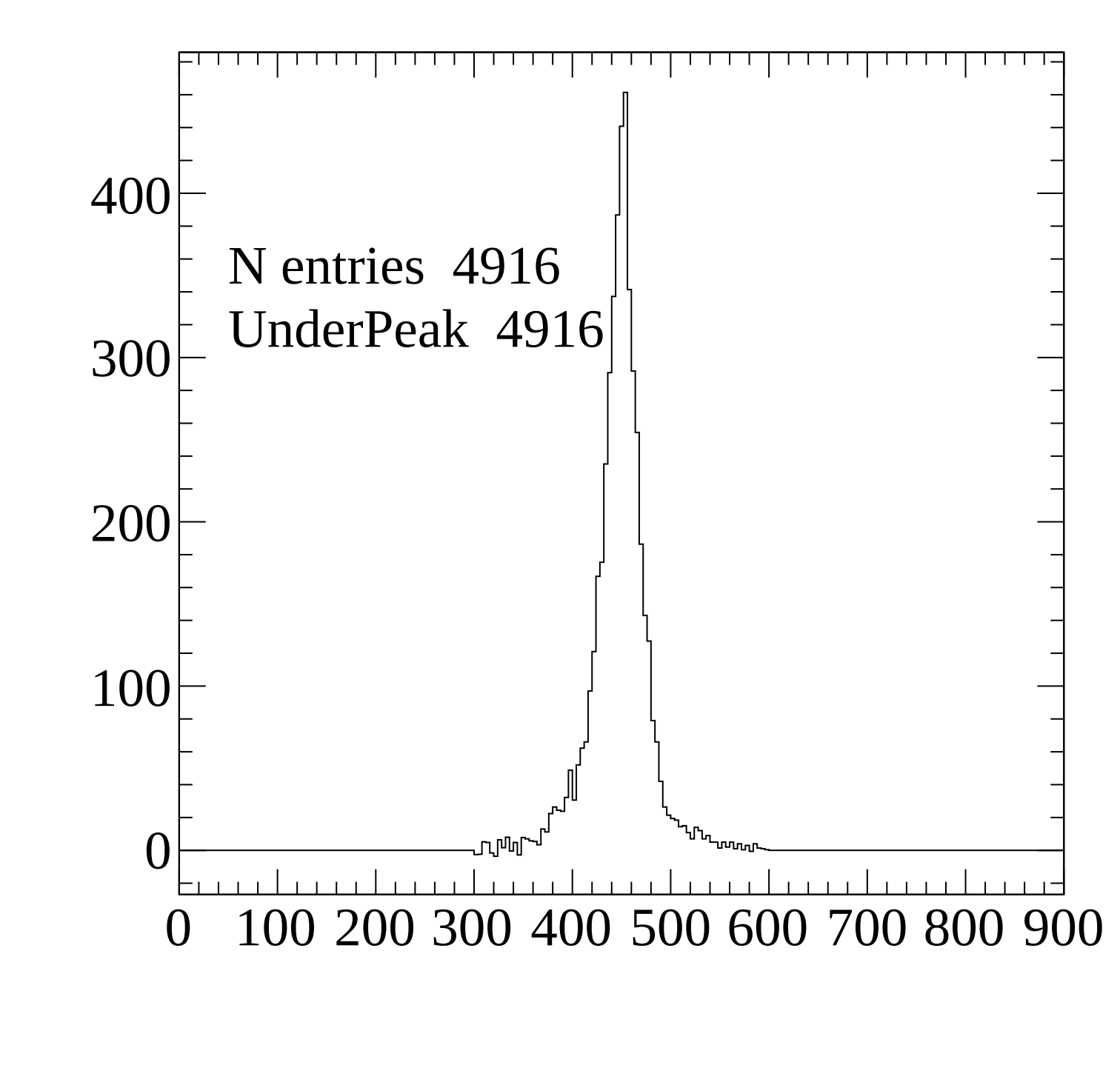

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange90_280
PADME Internal
nPOT=2.69×10^10
Target
No Target
800
700
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

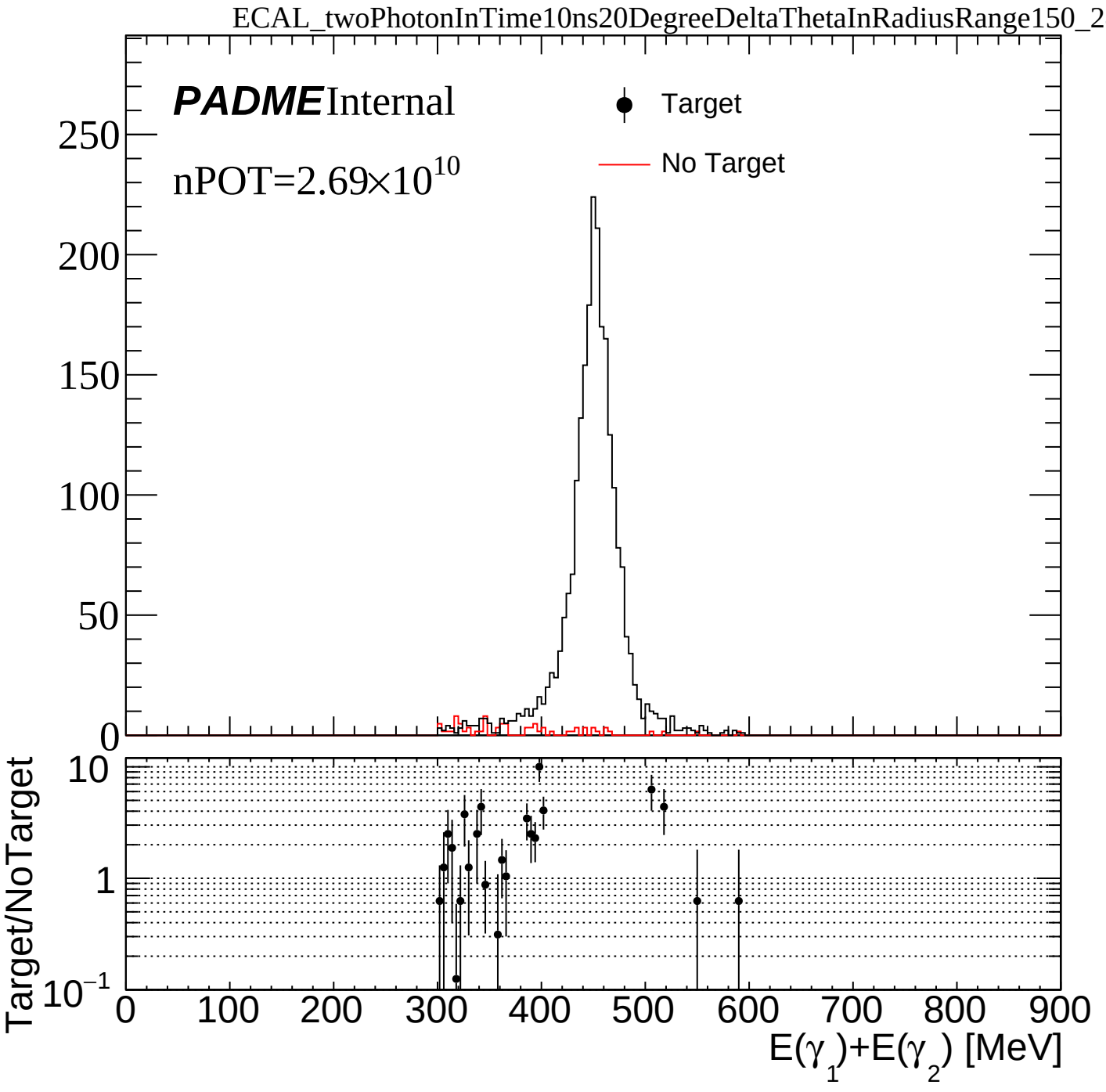

N entries 7332
UnderPeak 7332
600
500
400
300
200
100
0
0 100 200 300 400 500 600 700 800 900

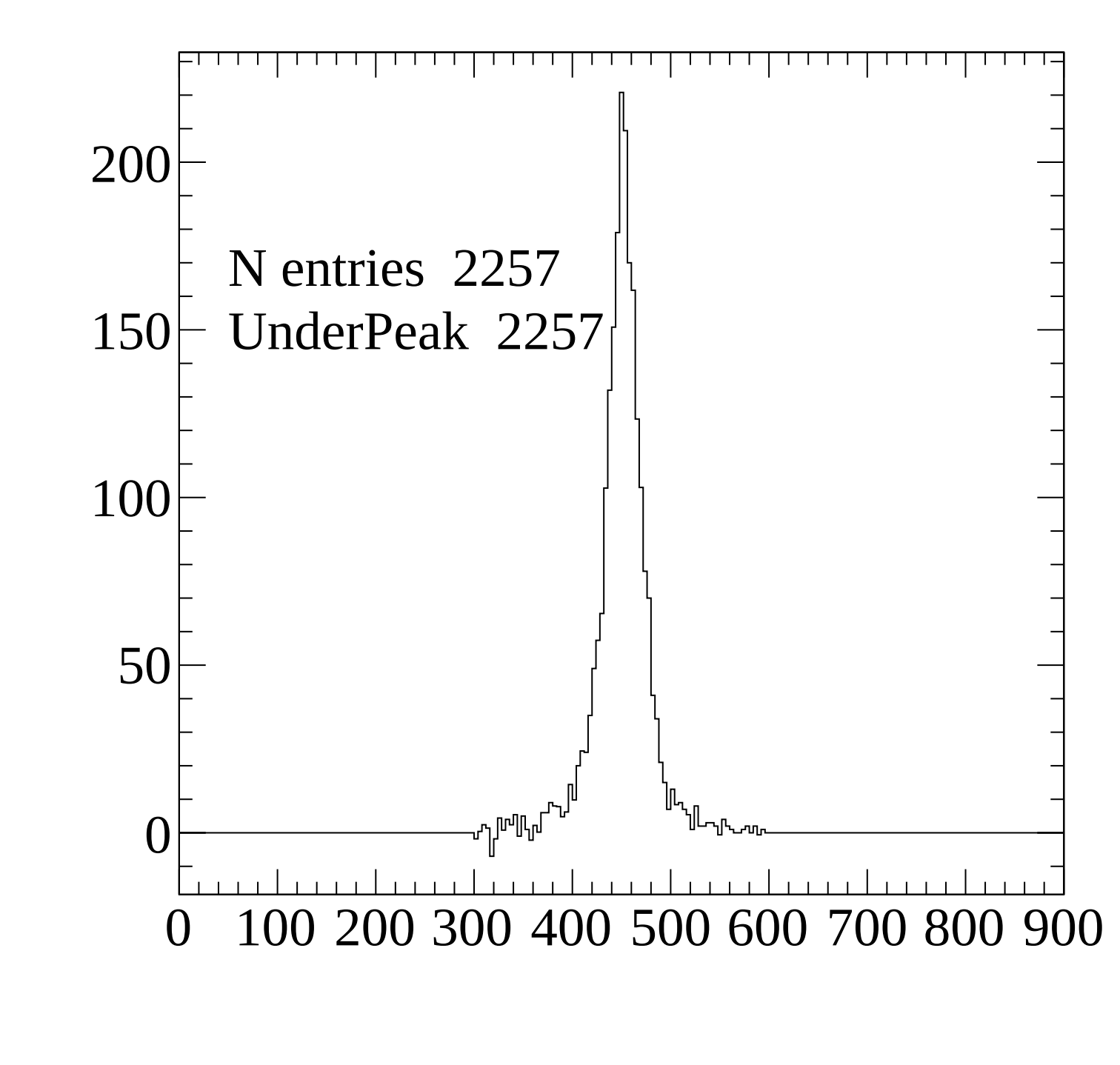

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange110_28
PADME Internal
nPOT=2.69×10^10
Target
No Target
700
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

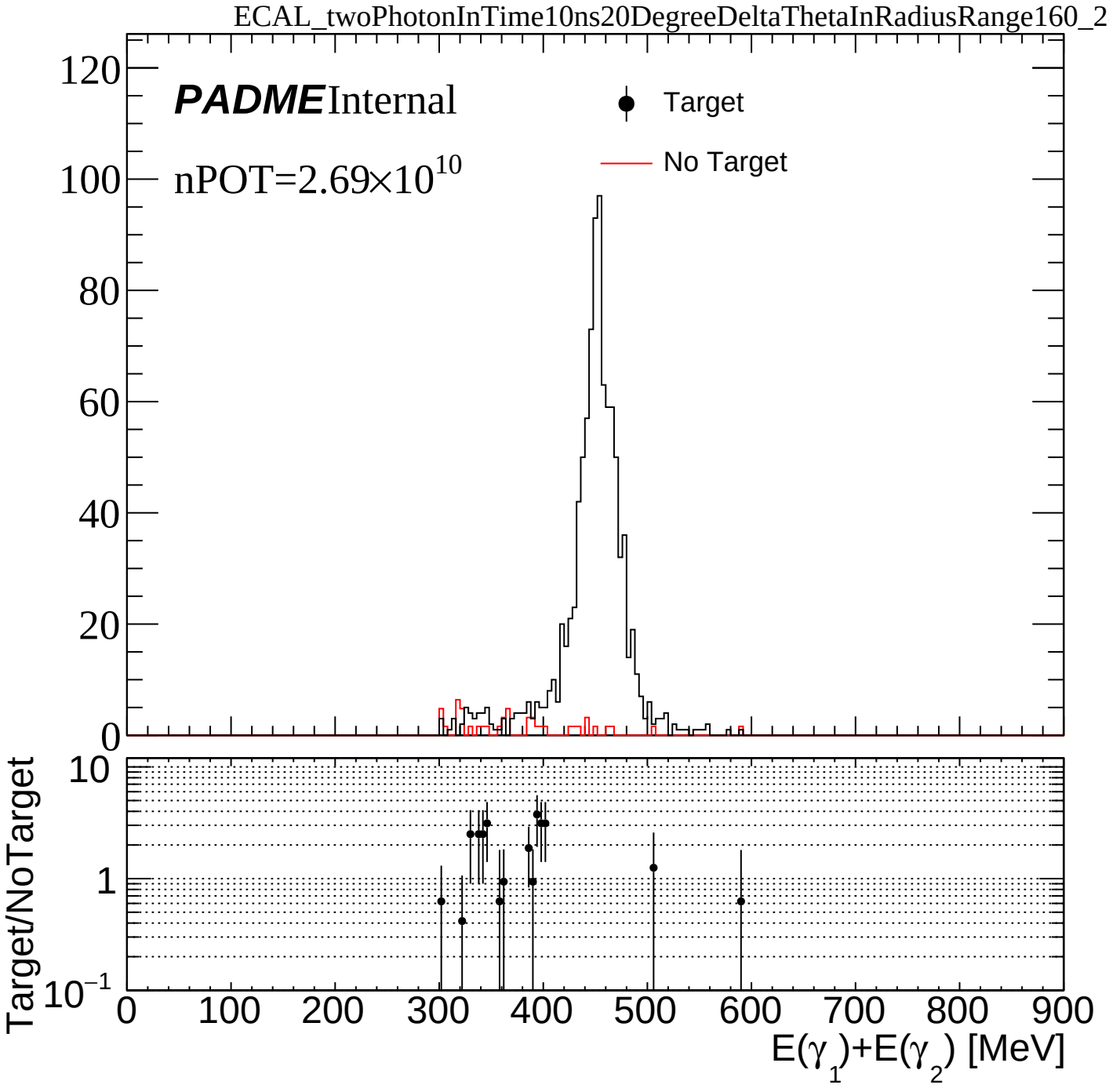

N entries 6958
UnderPeak 6958
600
500
400
300
200
100
0
0 100 200 300 400 500 600 700 800 900

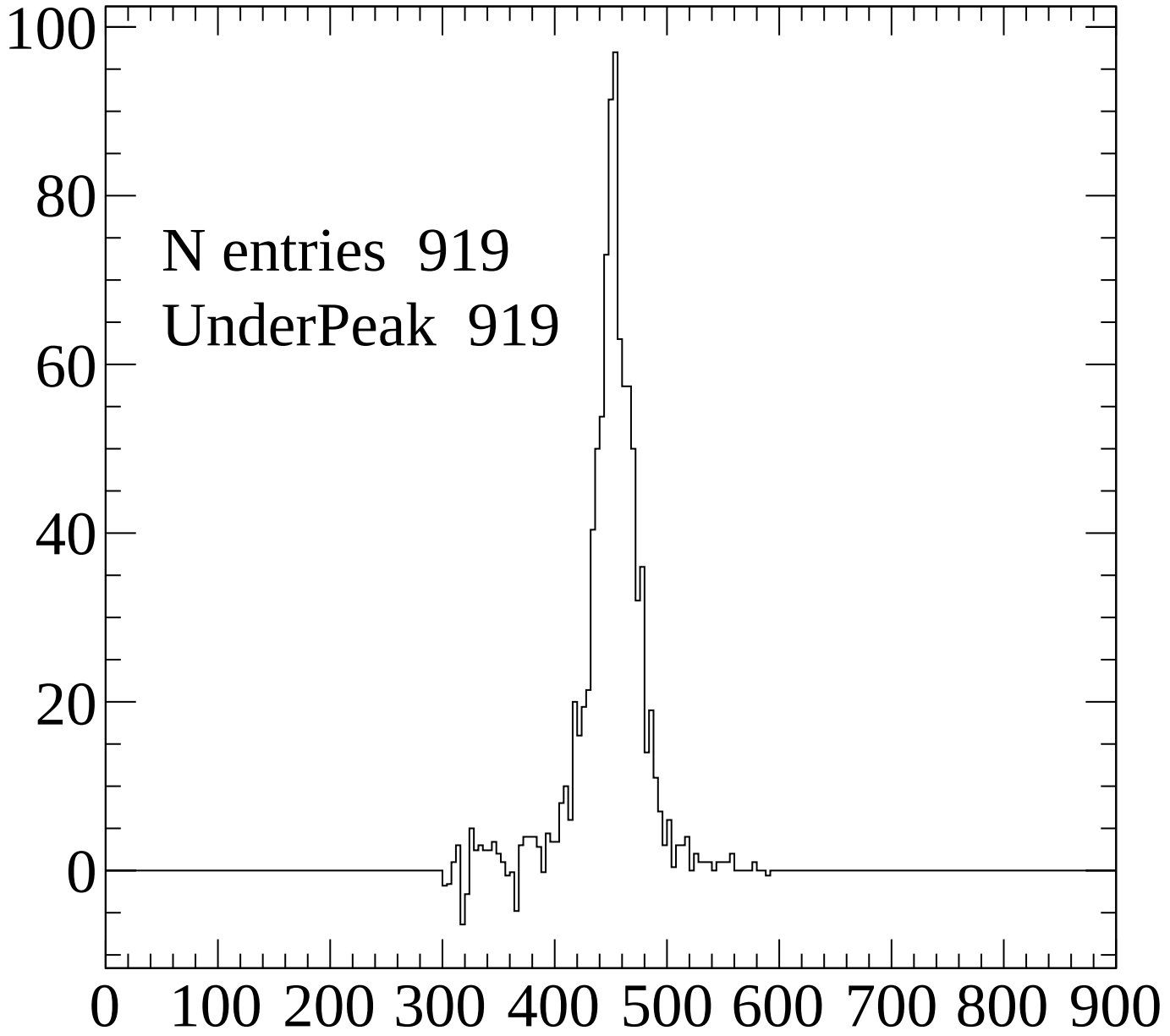

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange130_28
PADME Internal
nPOT=2.69×10^10
Target
No Target
600
500
400
300
200
100
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

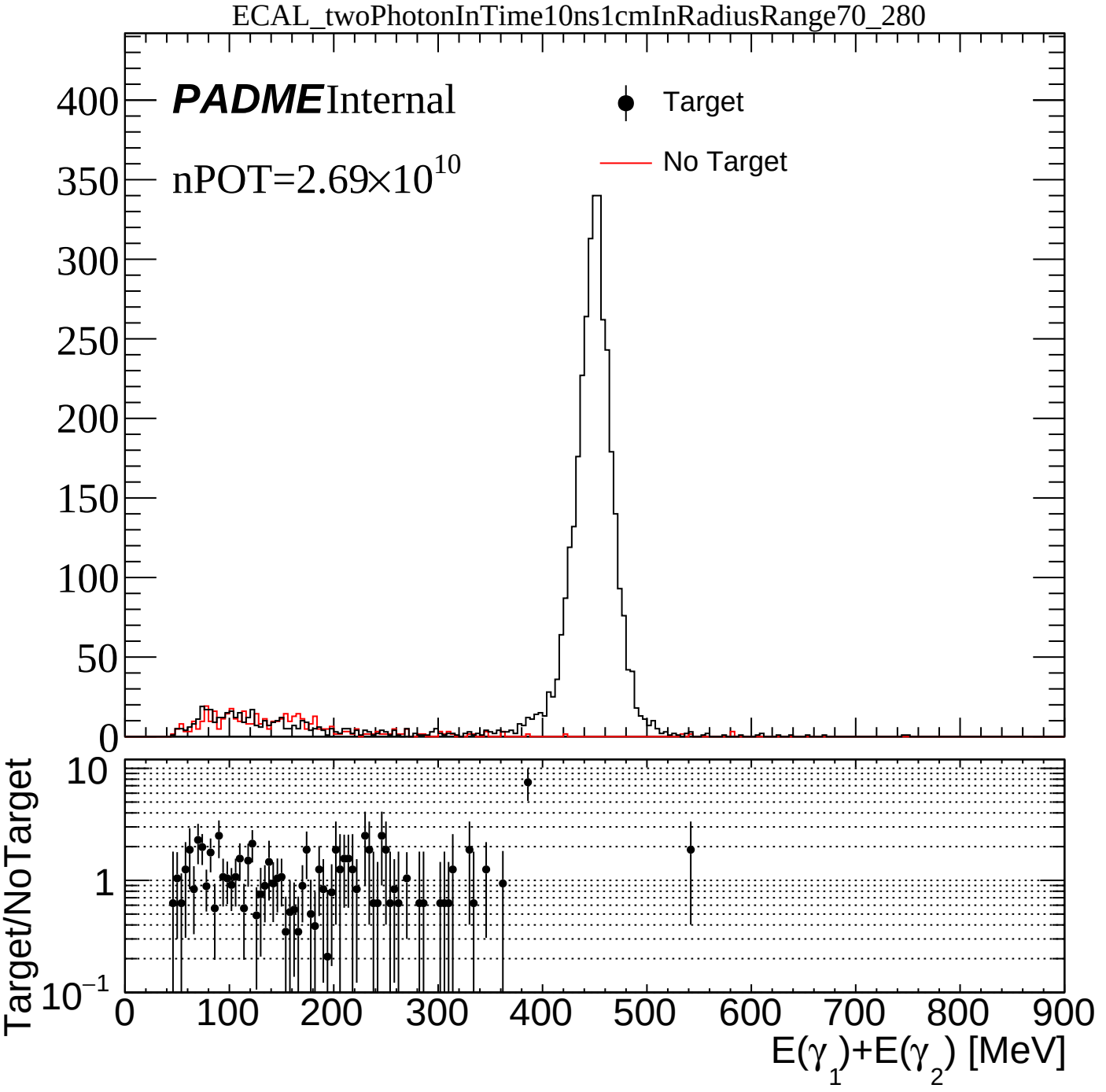

N entries 4916
UnderPeak 4916
400
300
200
100
0
0 100 200 300 400 500 600 700 800 900

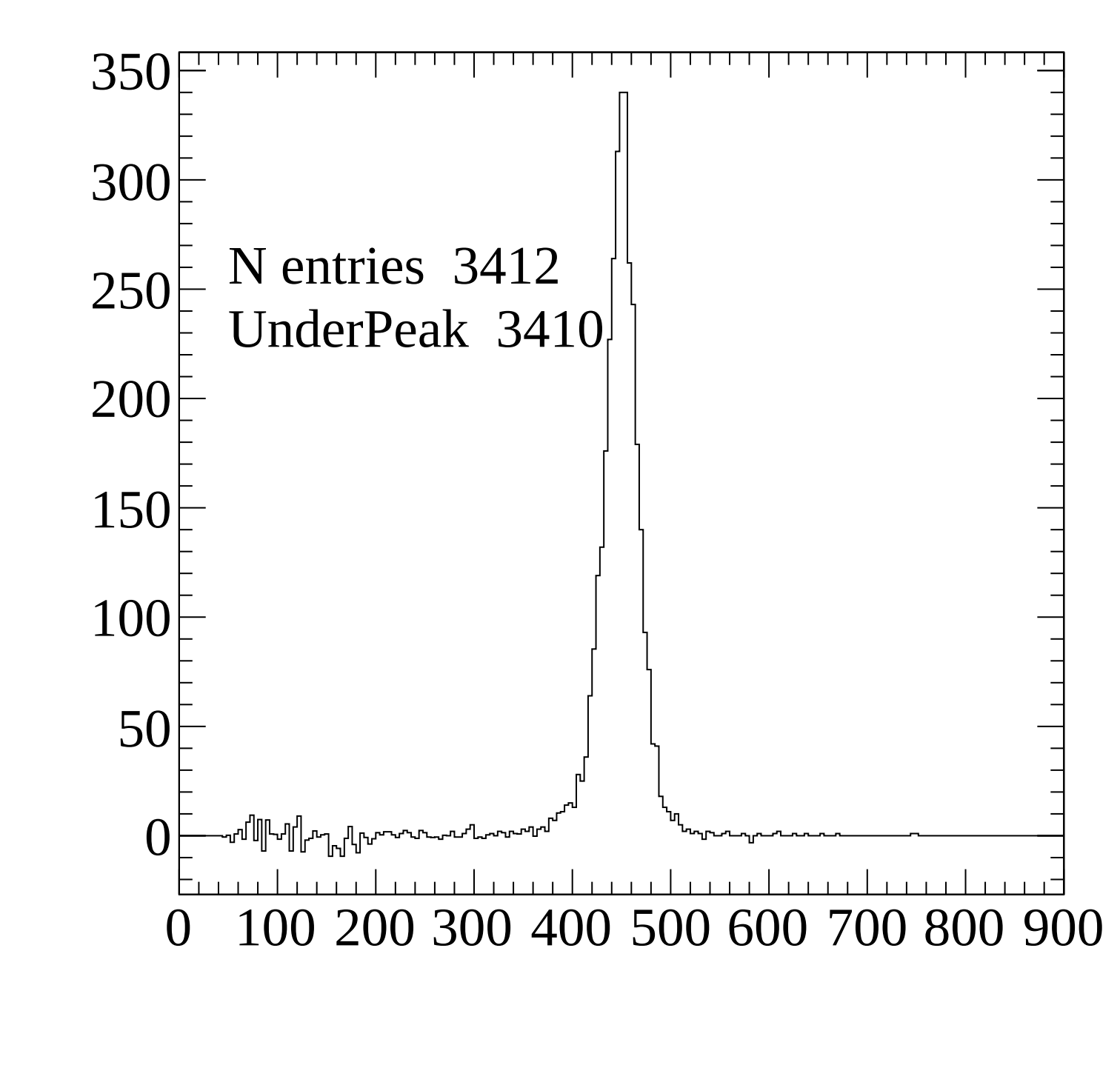

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange150_28
PADME Internal
nPOT=2.69×10^10
Target
No Target
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

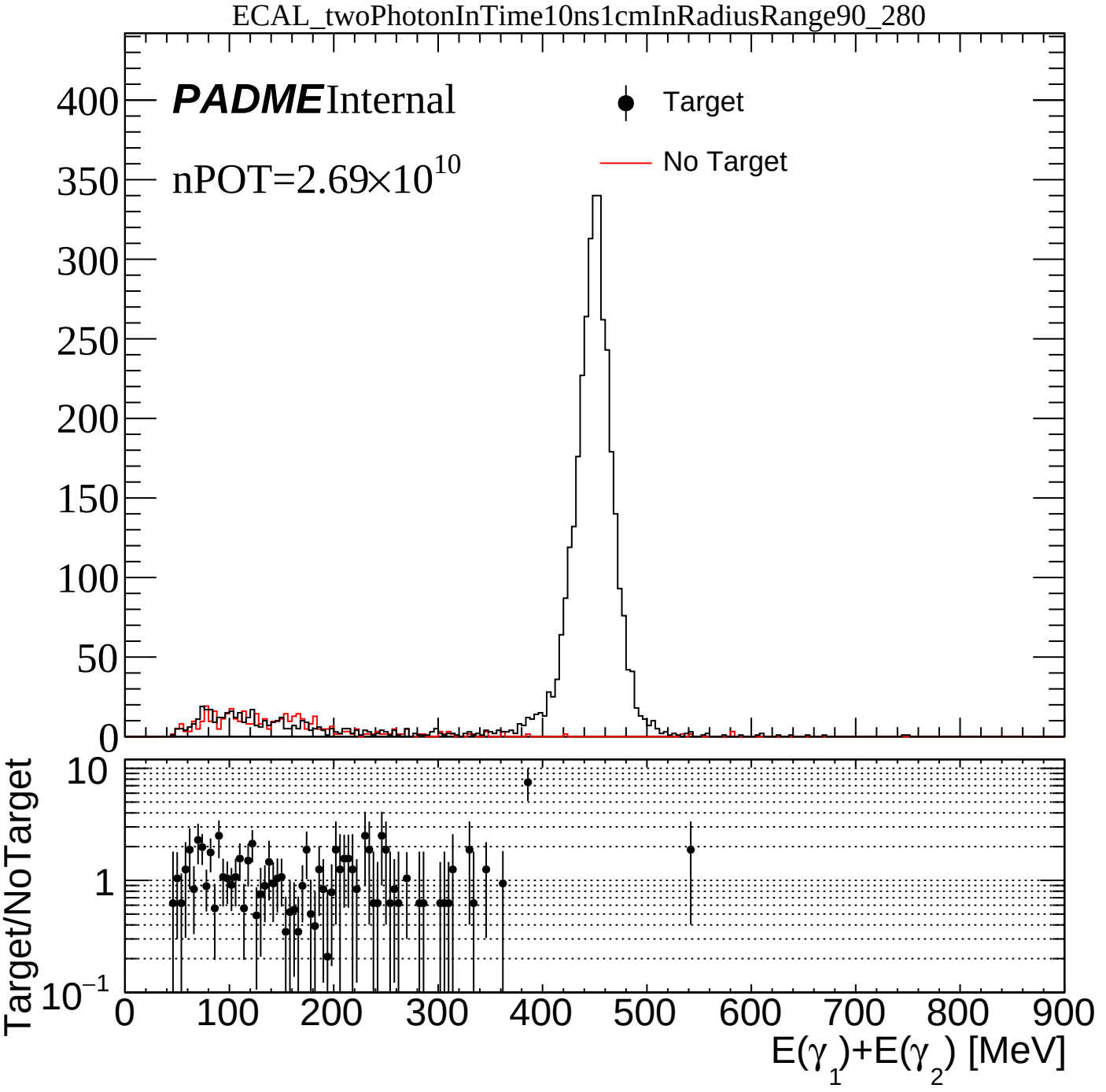

N entries 2257
UnderPeak 2257
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

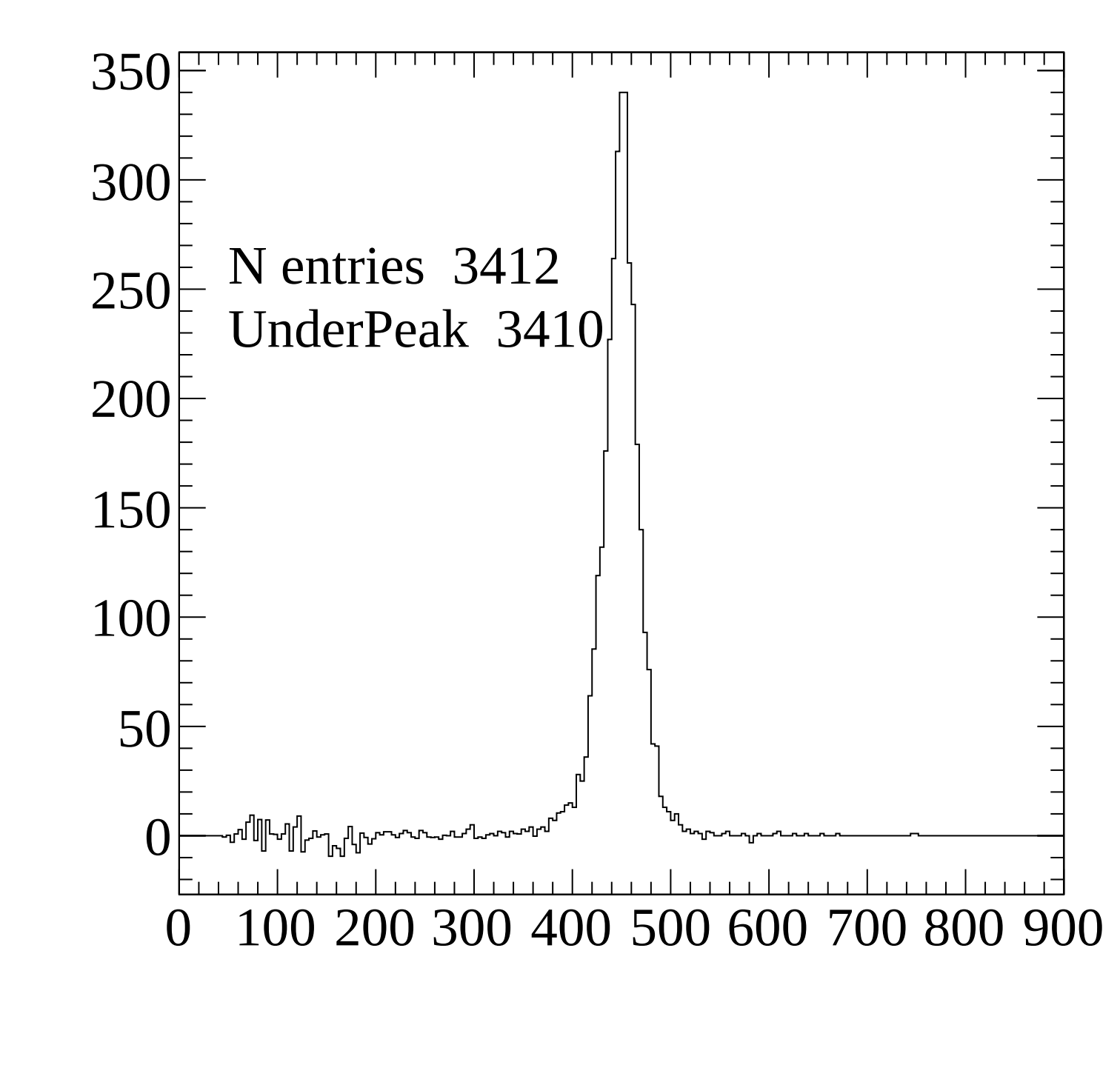

ECAL_twoPhotonInTime10ns20DegreeDeltaThetaInRadiusRange160_28
PADME Internal
nPOT=2.69×10^10
Target
No Target
120
100
80
60
40
20
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

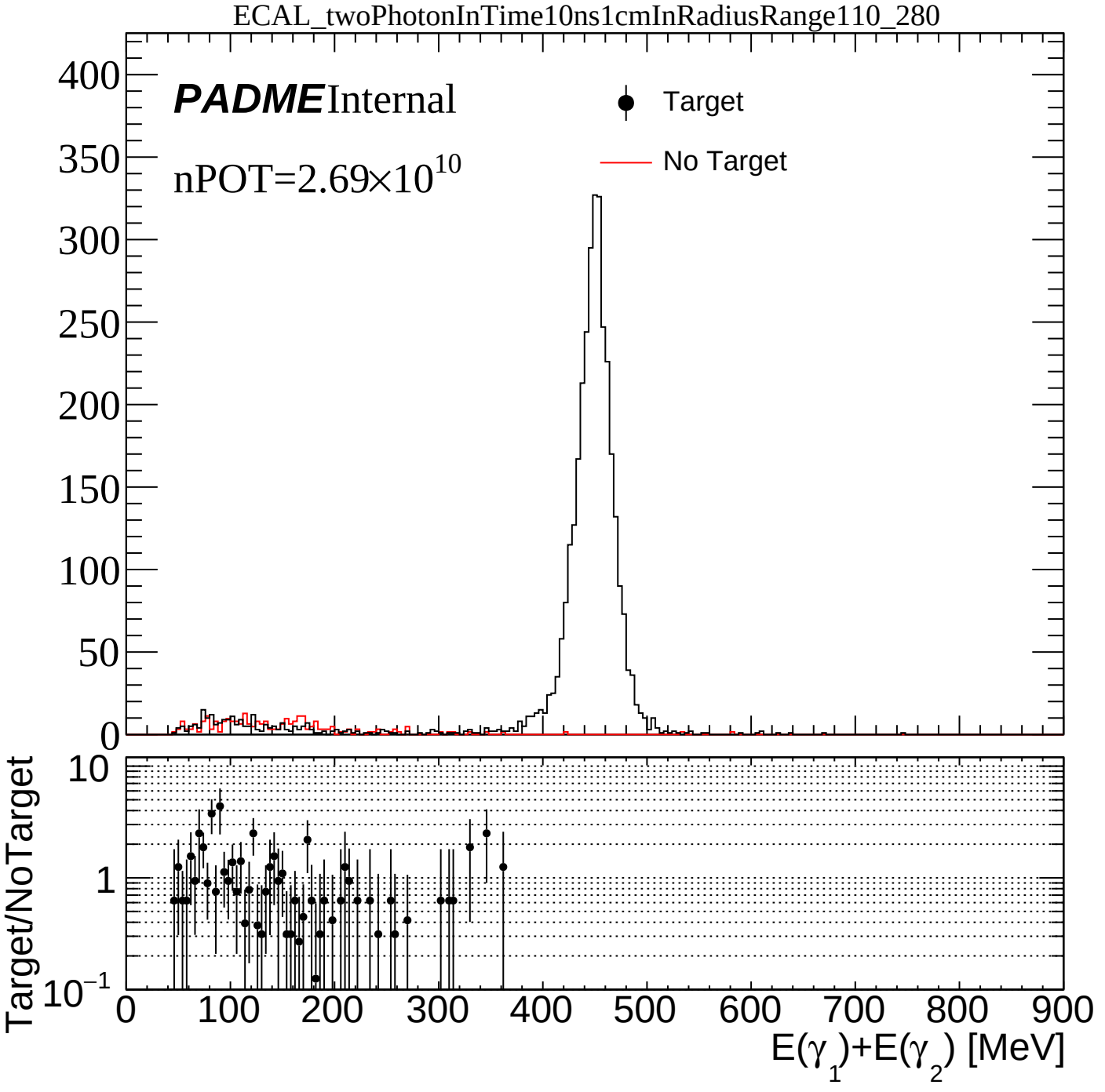

N entries 919
UnderPeak 919
100
80
60
40
20
0
0
100
200
300
400
500
600
700
800
900

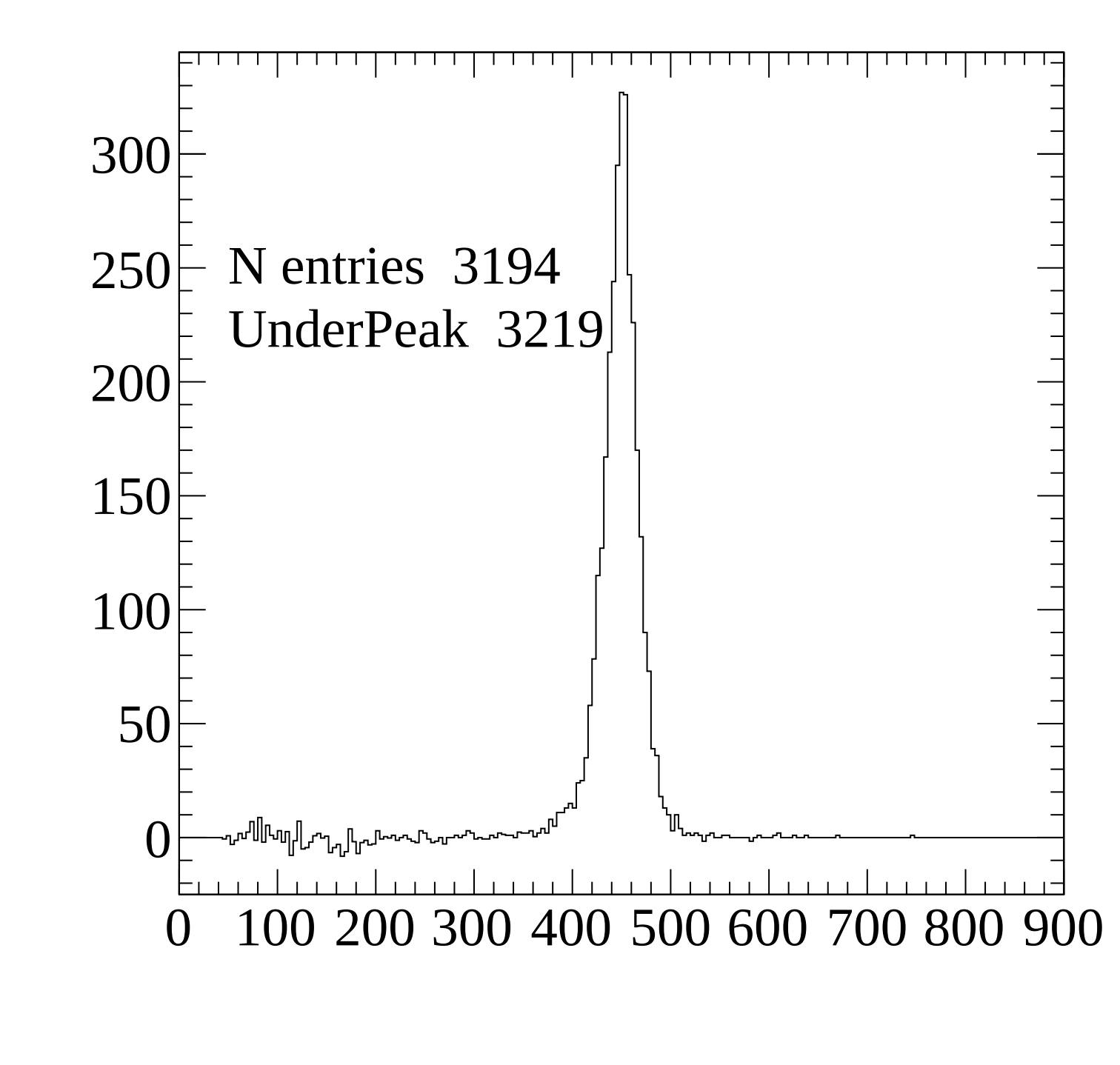

ECAL_twoPhotonInTime10ns1cmInRadiusRange70_280
PADME Internal
nPOT=2.69×10^10
Target
No Target
400
350
300
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

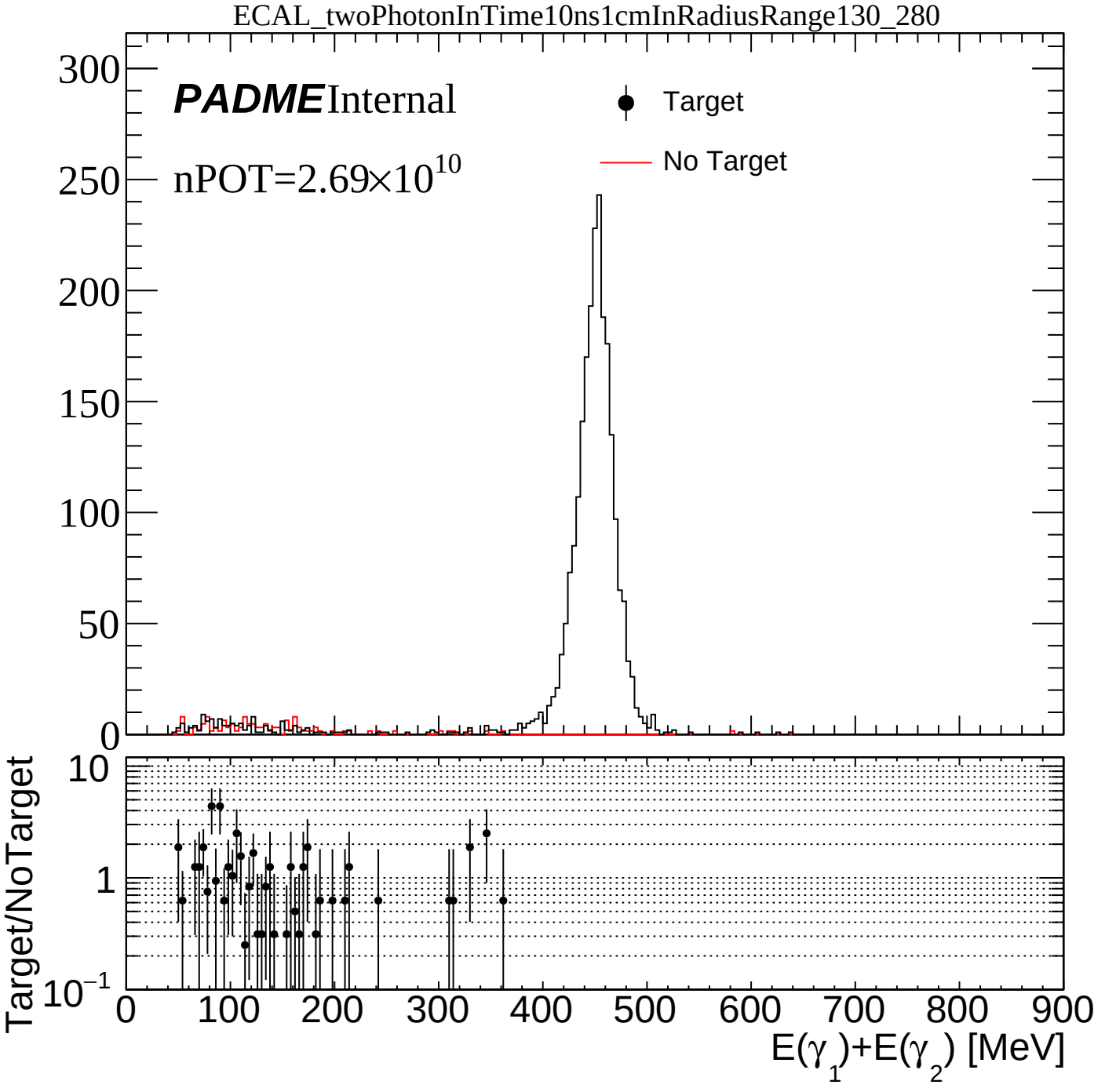

N entries 3412
UnderPeak 3410
350
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

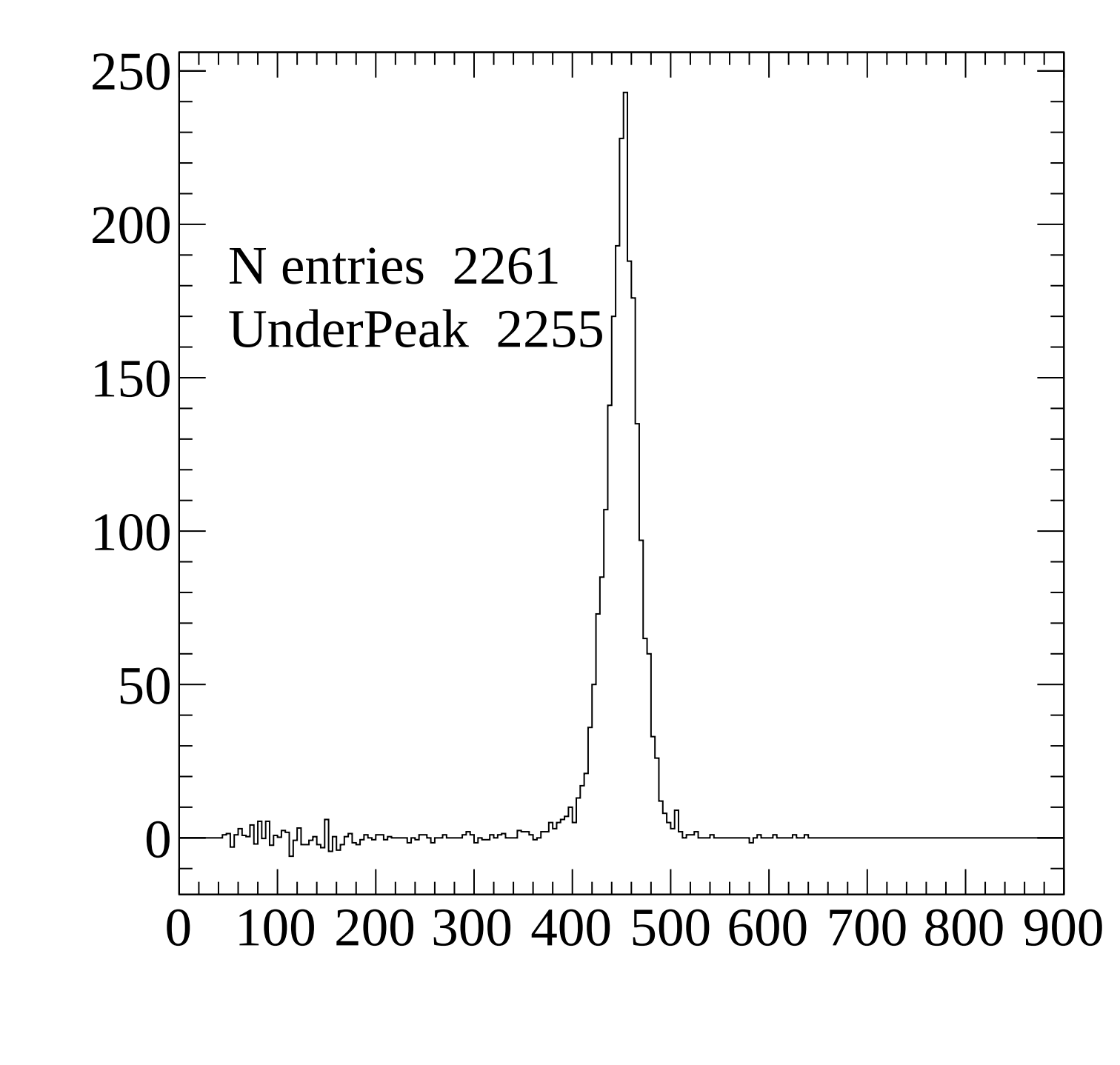

ECAL_twoPhotonInTime10ns1cmInRadiusRange90_280
PADME Internal
nPOT=2.69×10^10
Target
No Target
400
350
300
250
200
150
100
50
0
Target/NoTarget
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

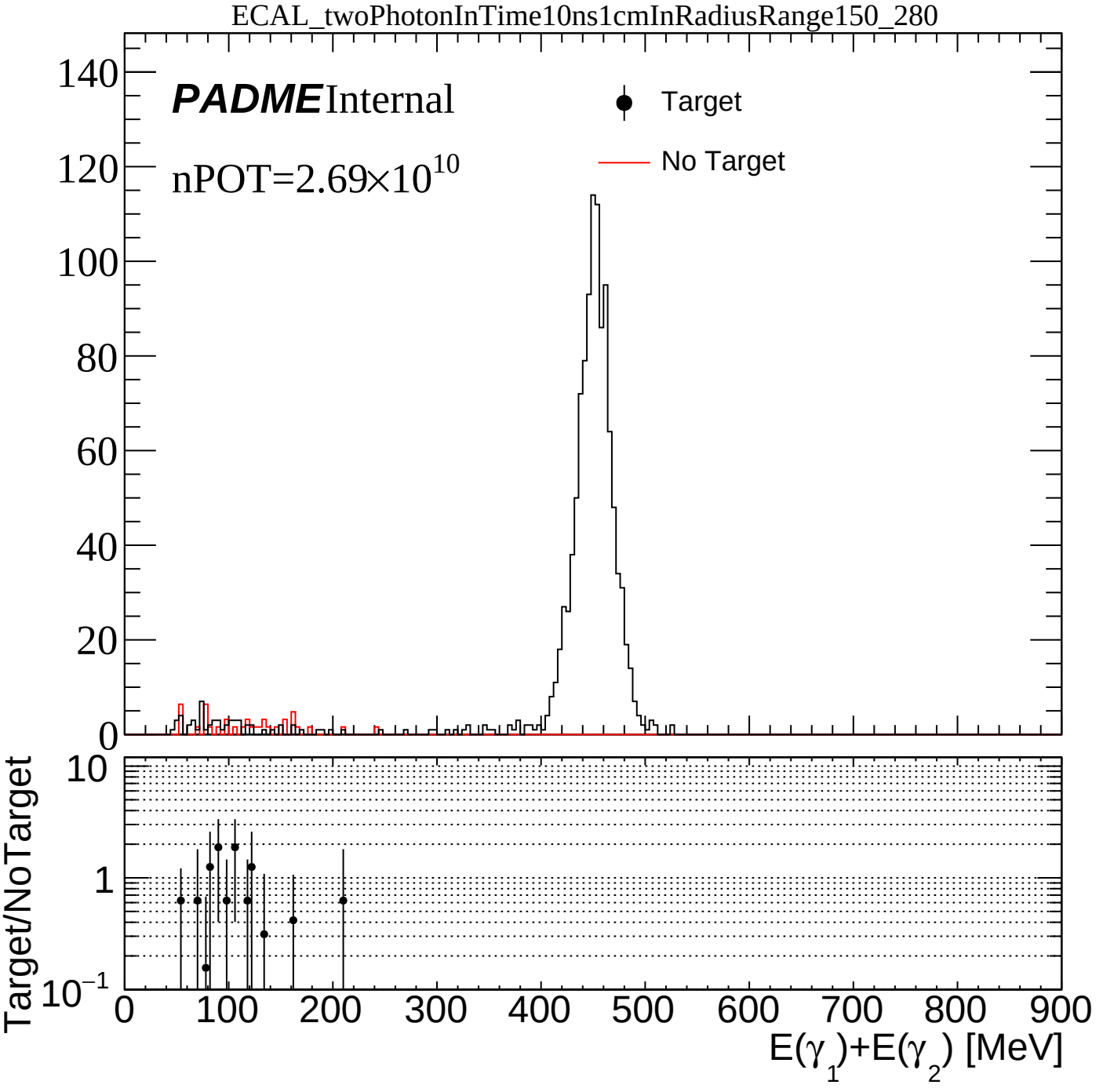

N entries 3412
UnderPeak 3410
350
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

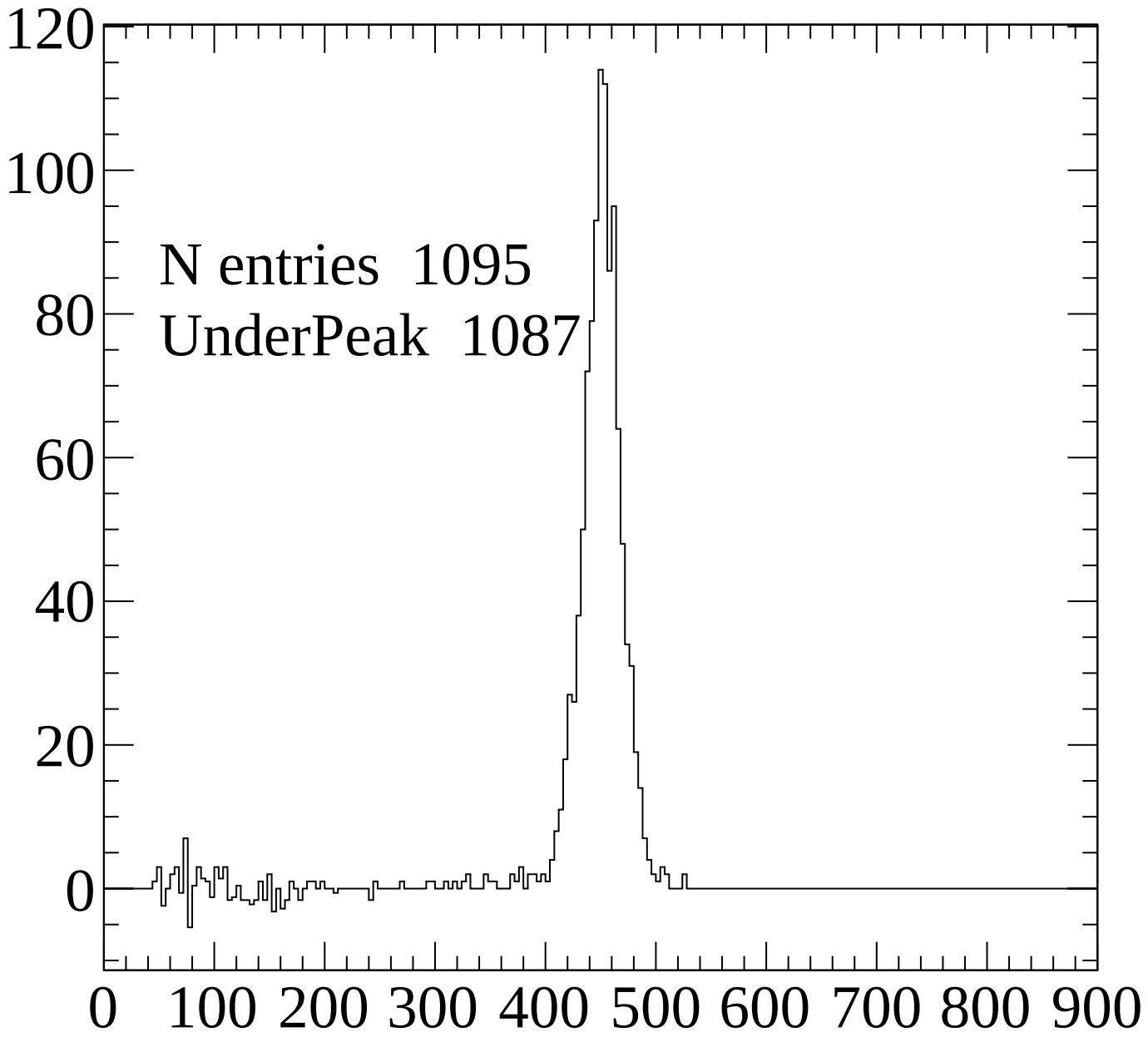

ECAL_twoPhotonInTime10ns1cmInRadiusRange110_280
PADME Internal
nPOT=2.69×10^10
Target
No Target
400
350
300
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

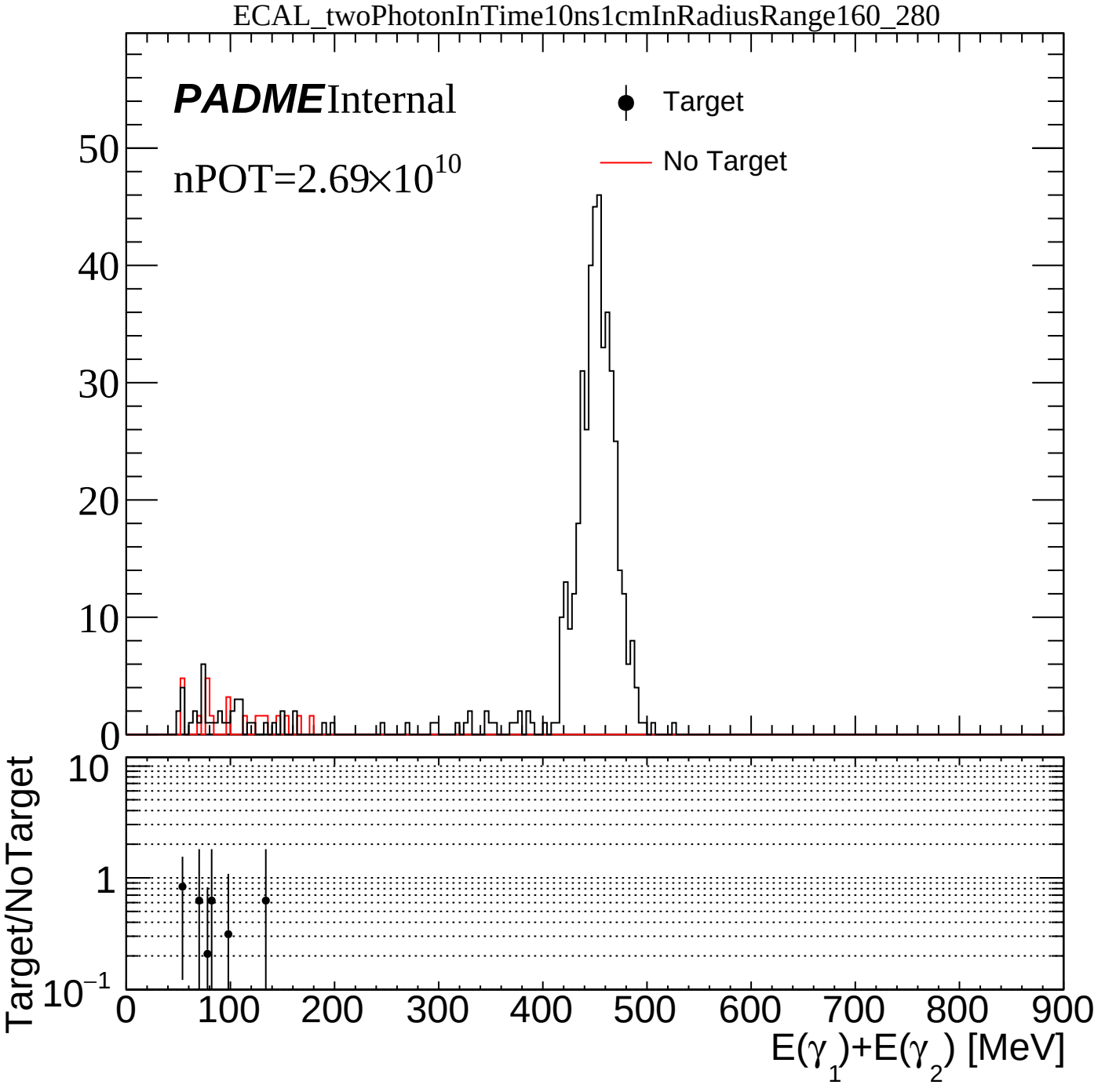

N entries 3194
UnderPeak 3219
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

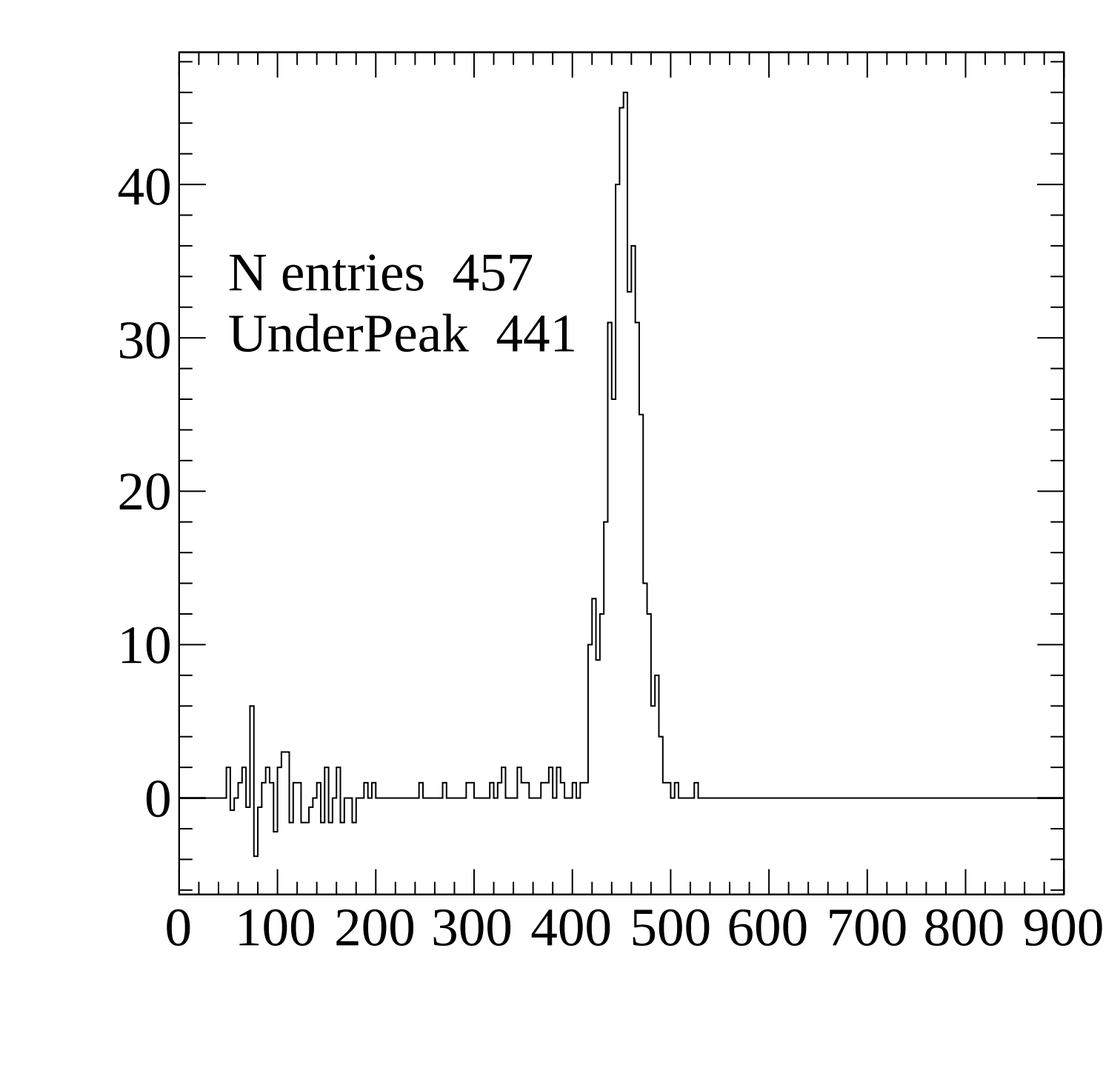

ECAL_twoPhotonInTime10ns1cmInRadiusRange130_280
PADME Internal
nPOT=2.69×10^10
Target
No Target
300
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ_1)+E(γ_2) [MeV]

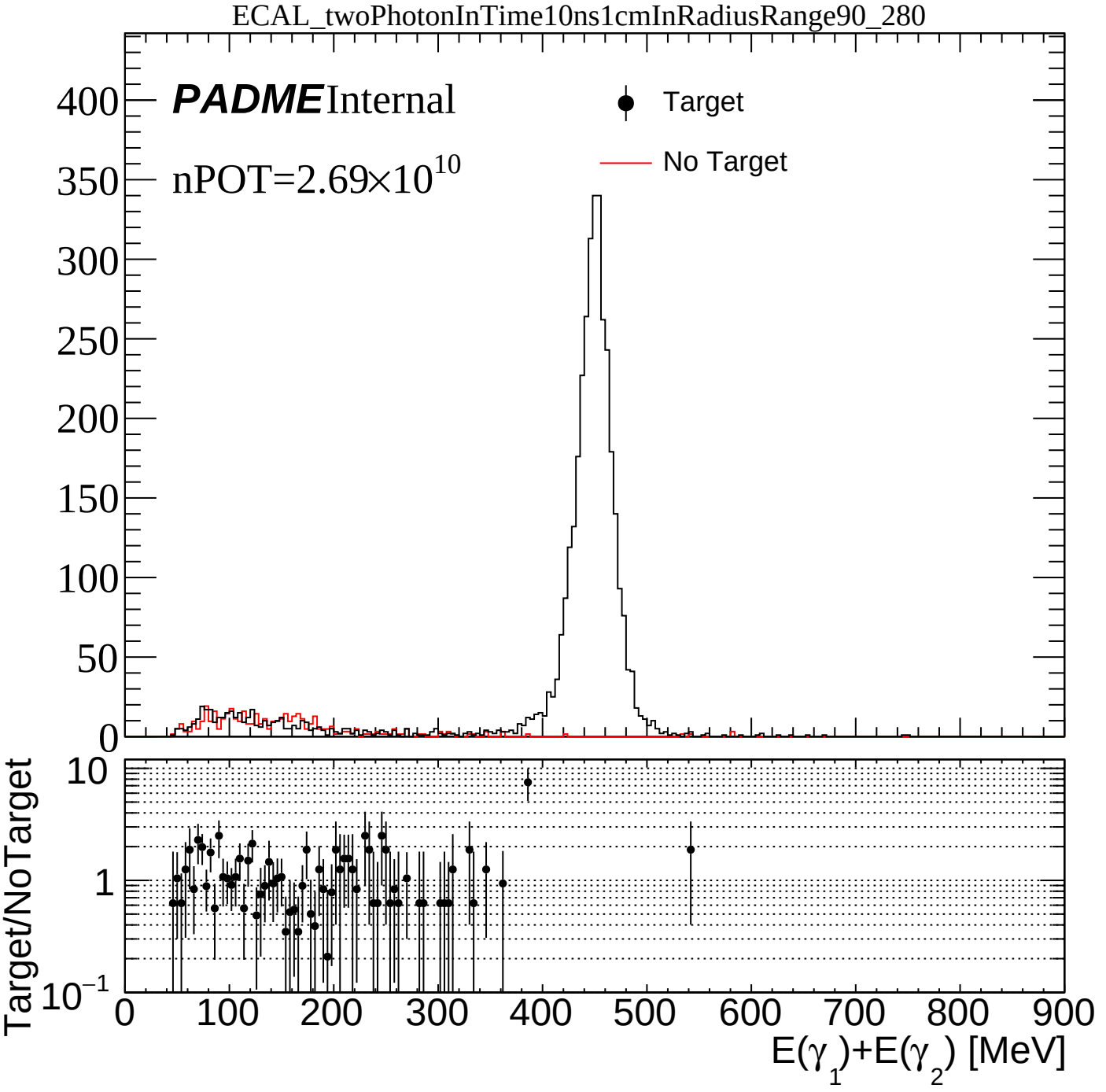

N entries 2261
UnderPeak 2255
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

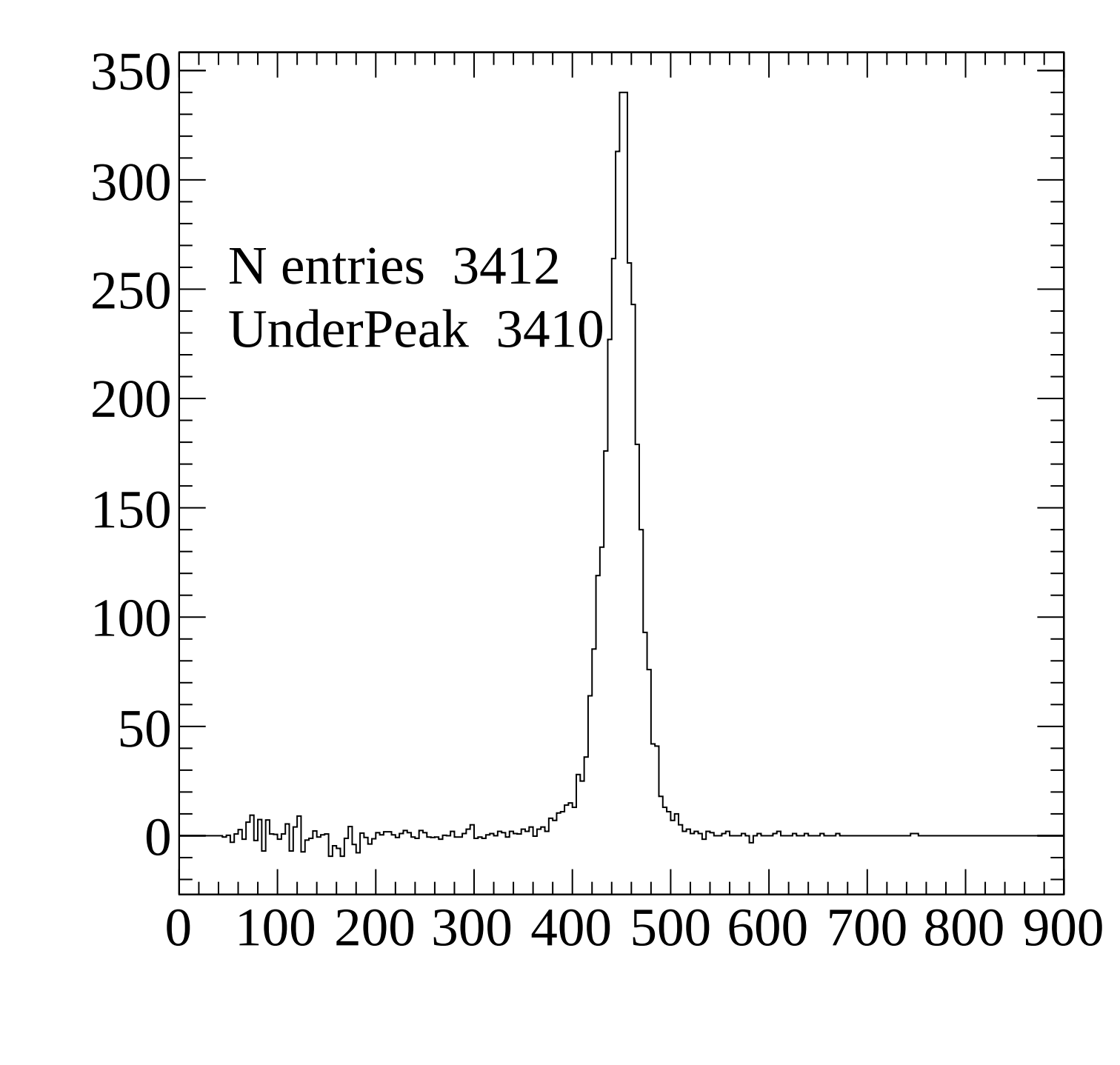

ECAL_twoPhotonInTime10ns1cmInRadiusRange150_280
PADME Internal
nPOT=2.69×10^10
Target
No Target
140
120
100
80
60
40
20
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ_1)+E(γ_2) [MeV]

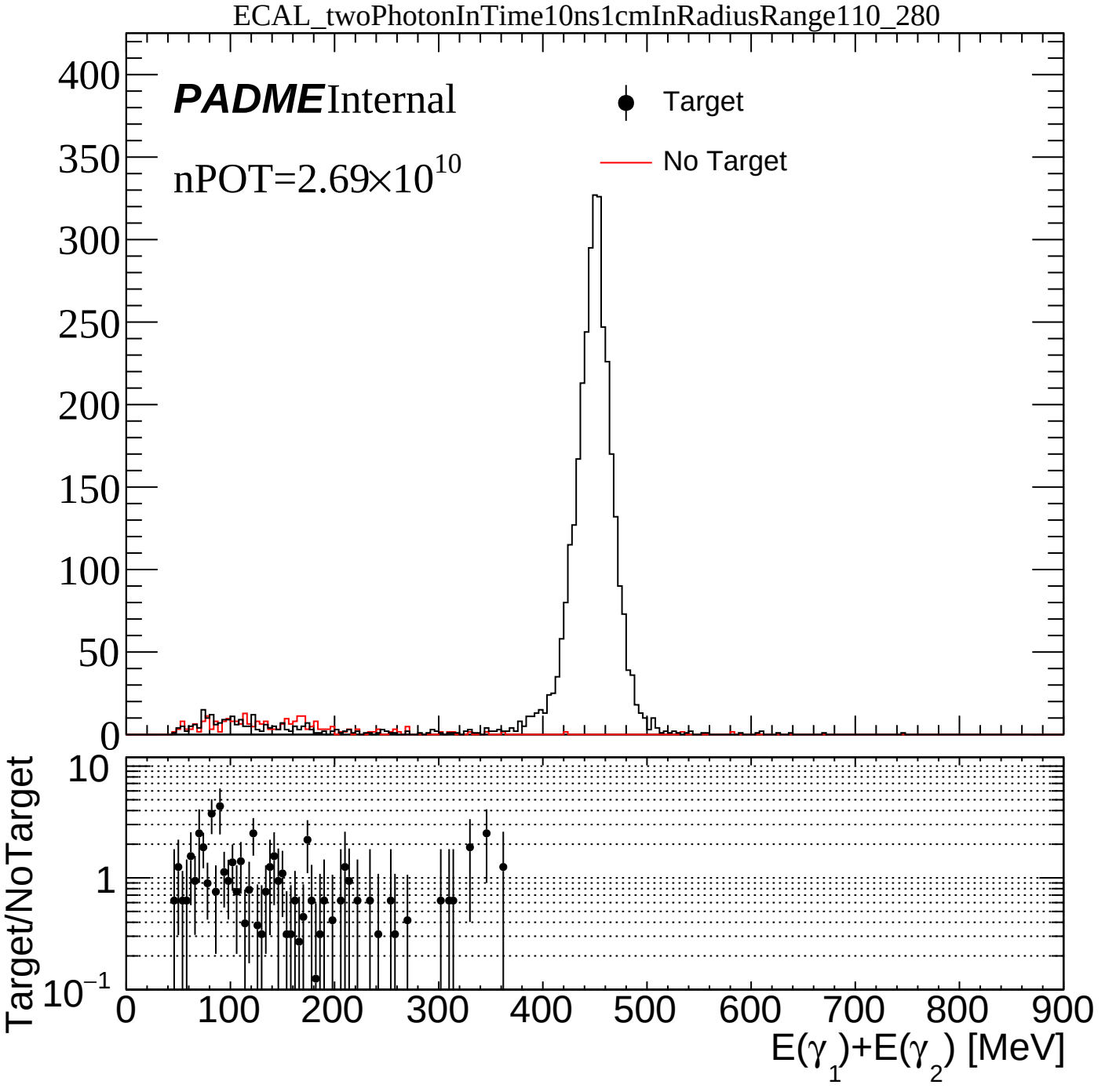

N entries 1095
UnderPeak 1087
120
100
80
60
40
20
0
0 100 200 300 400 500 600 700 800 900

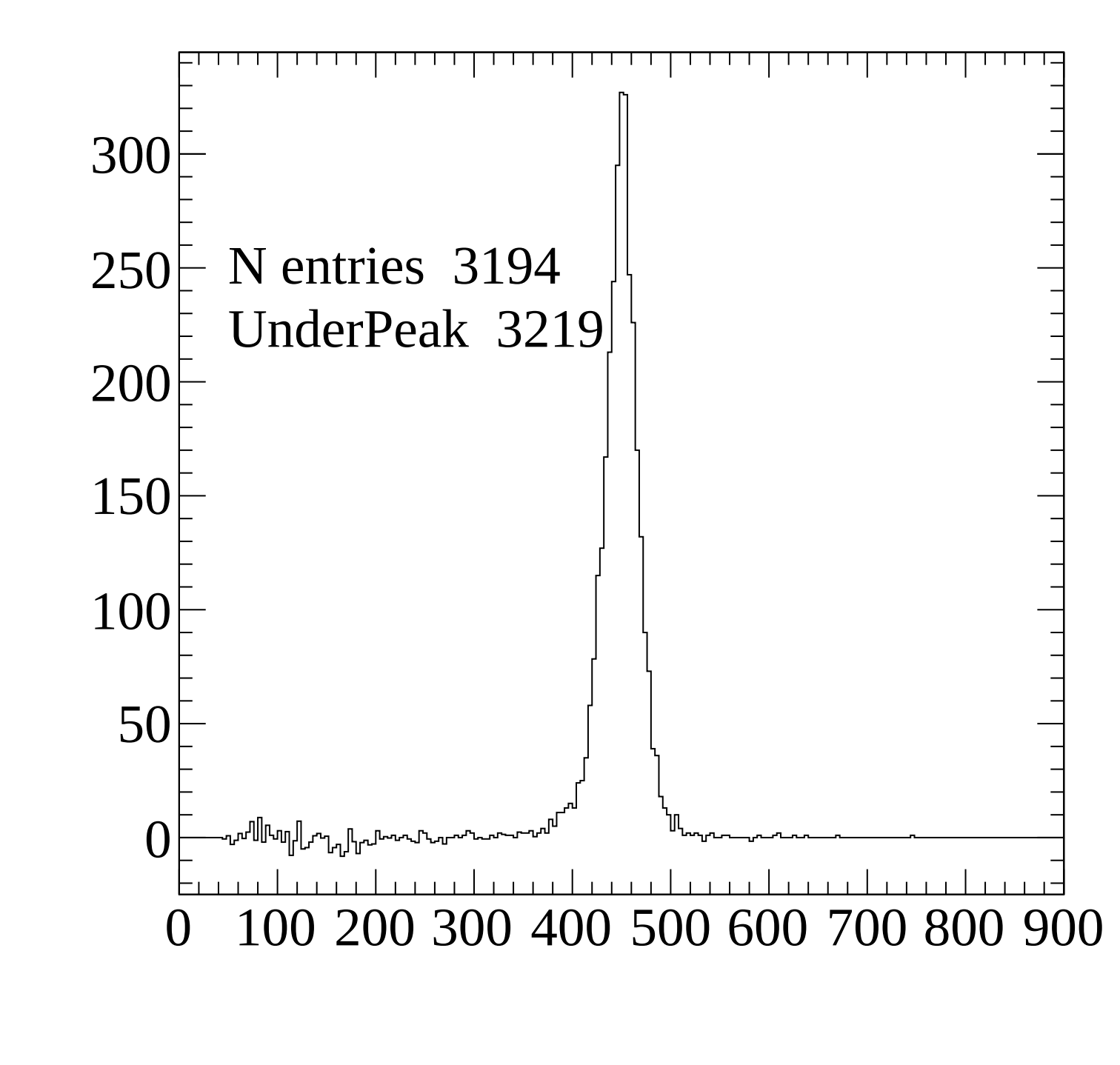

ECAL_twoPhotonInTime10ns1cmInRadiusRange160_280
PADME Internal
nPOT=2.69×10^10
Target
No Target
50
40
30
20
10
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ_1)+E(γ_2) [MeV]

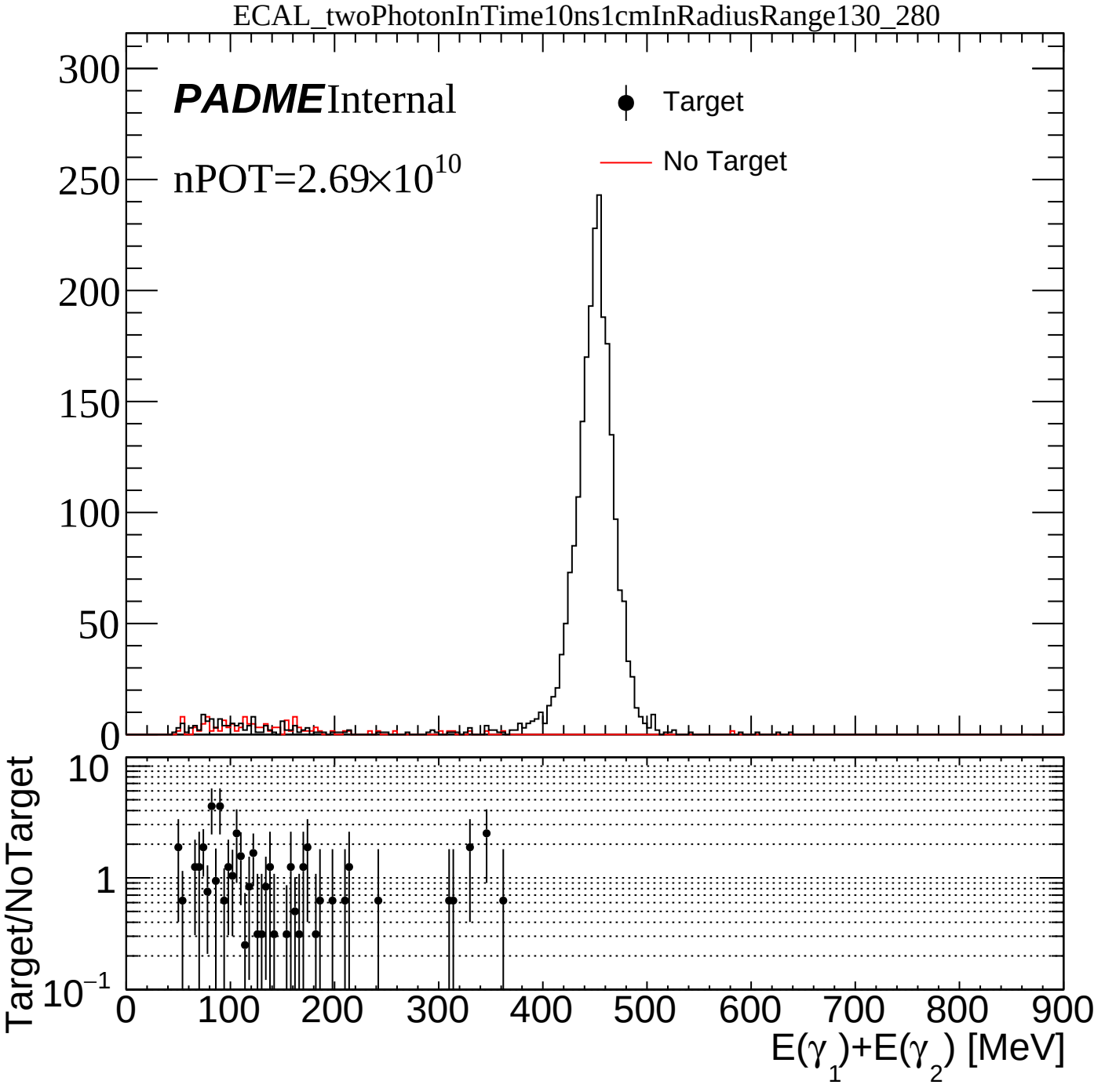

N entries 457
UnderPeak 441
40
30
20
10
0
0
100
200
300
400
500
600
700
800
900

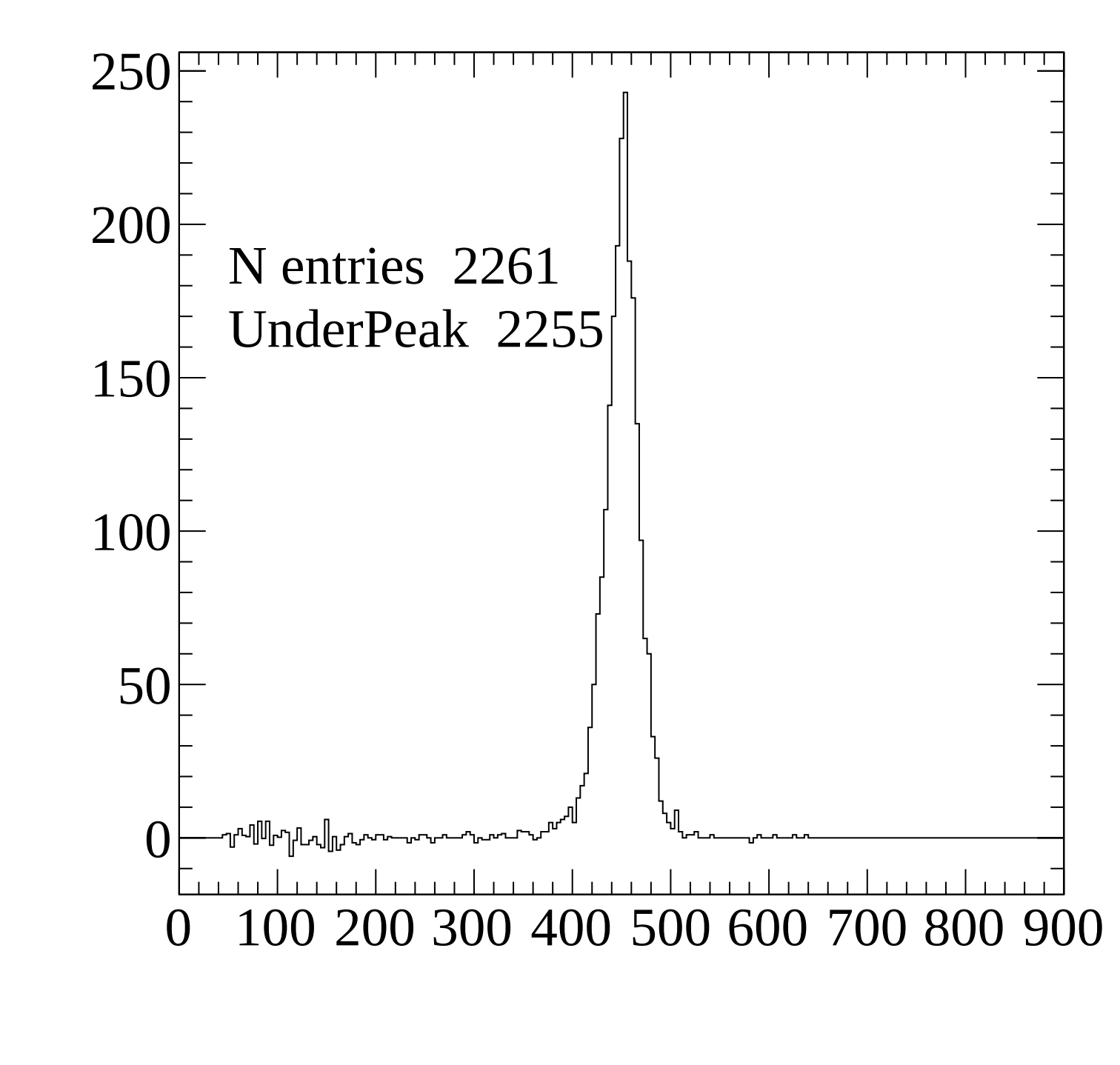

ECAL_twoPhotonInTime10ns1cmInRadiusRange90_280
PADME Internal
nPOT=2.69×10^10
Target
No Target
400
350
300
250
200
150
100
50
0
Target/NoTarget
10
1
10^−1
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

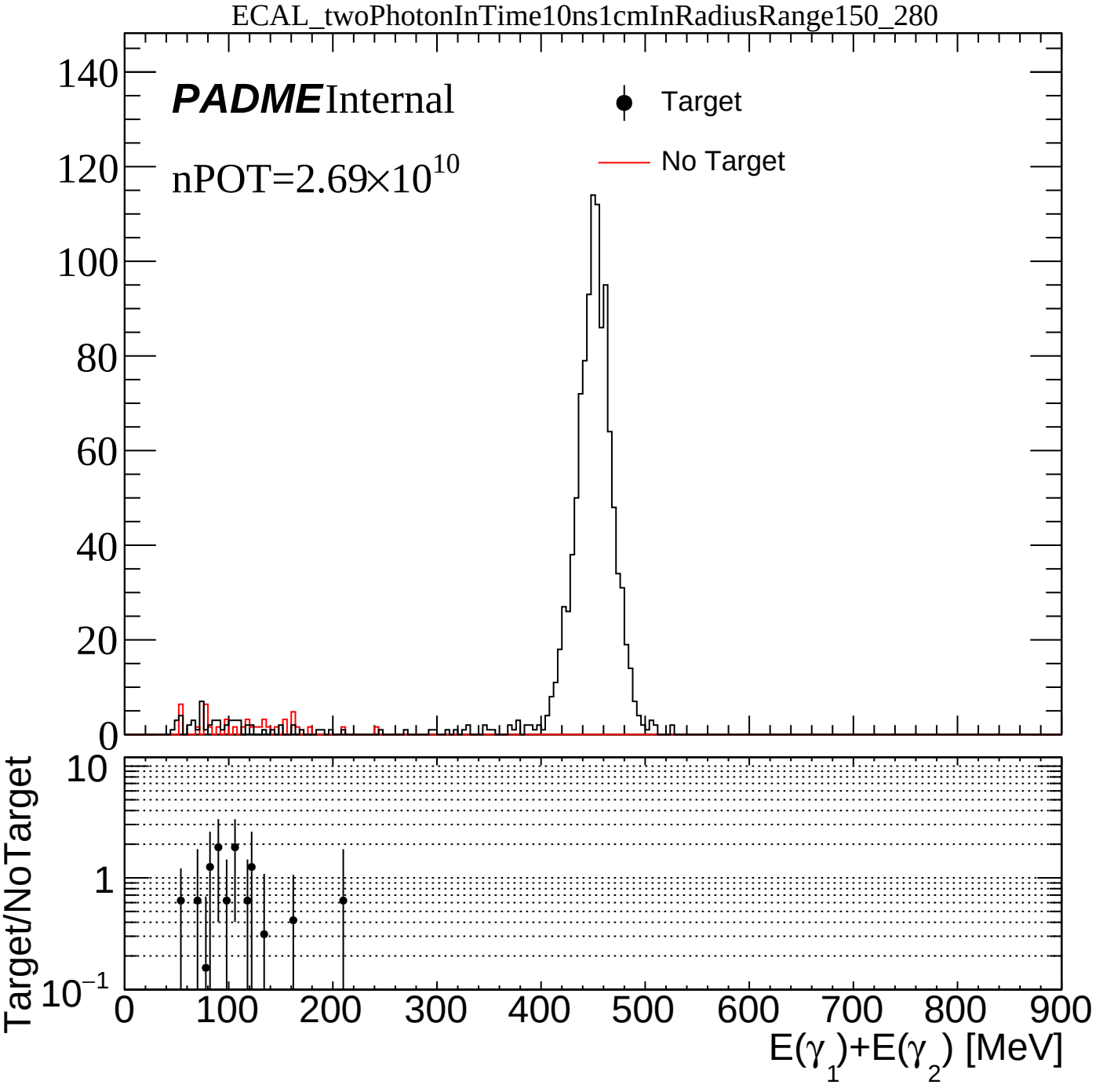

N entries 3412
UnderPeak 3410
350
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

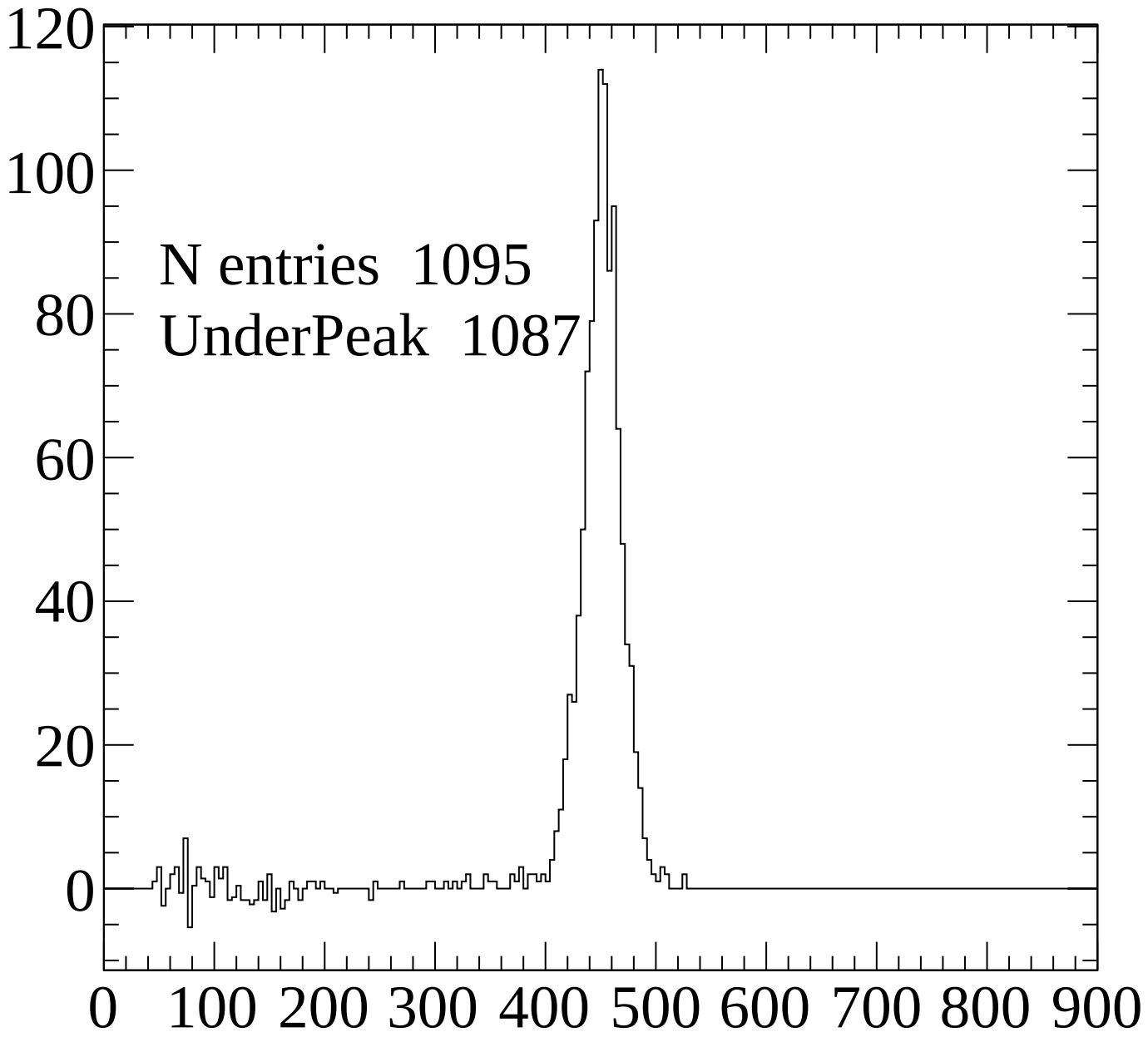

ECAL_twoPhotonInTime10ns1cmInRadiusRange110_280
PADME Internal
nPOT=2.69×10^10
Target
No Target
400
350
300
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ1)+E(γ2) [MeV]

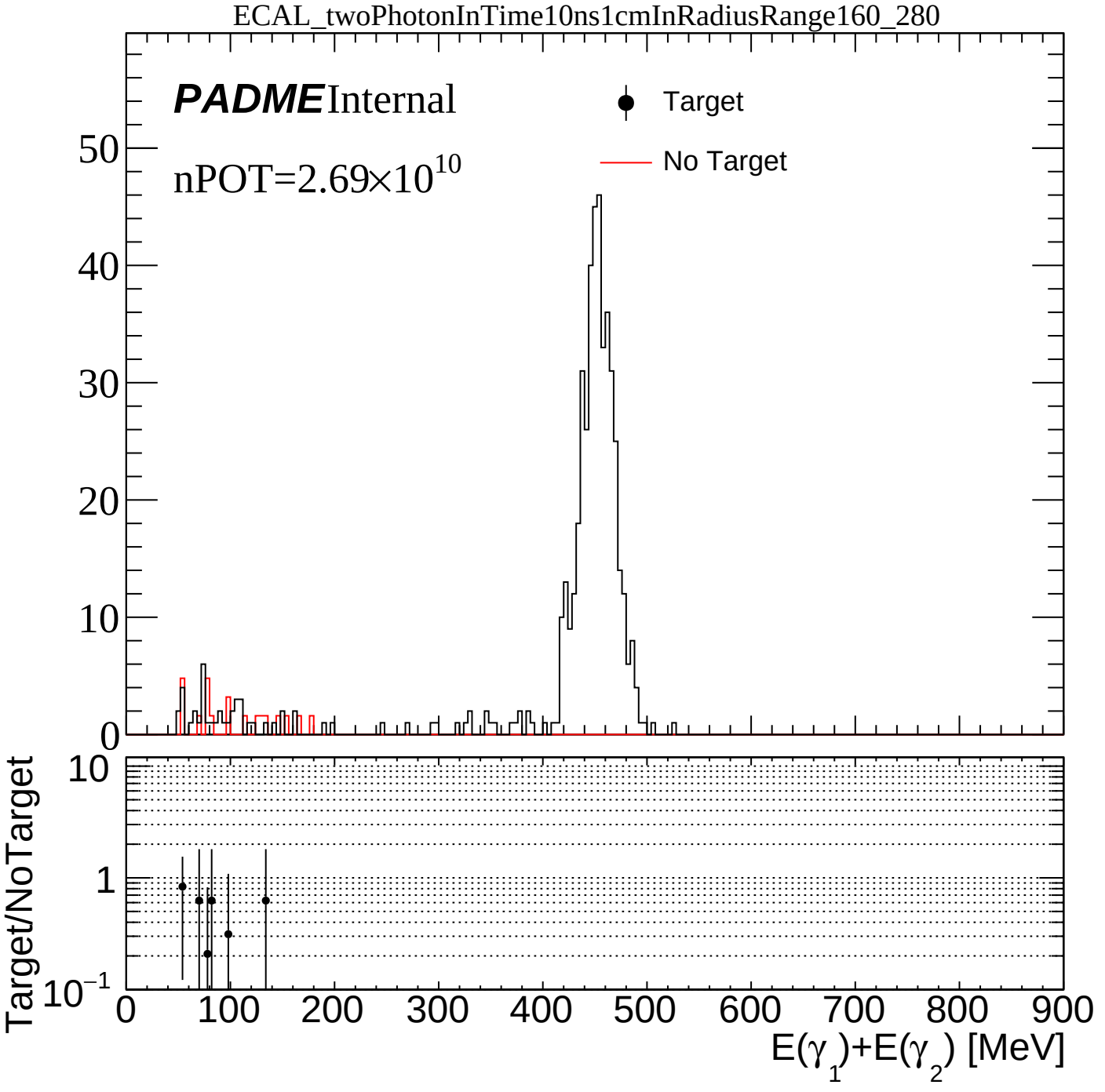

N entries 3194
UnderPeak 3219
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900

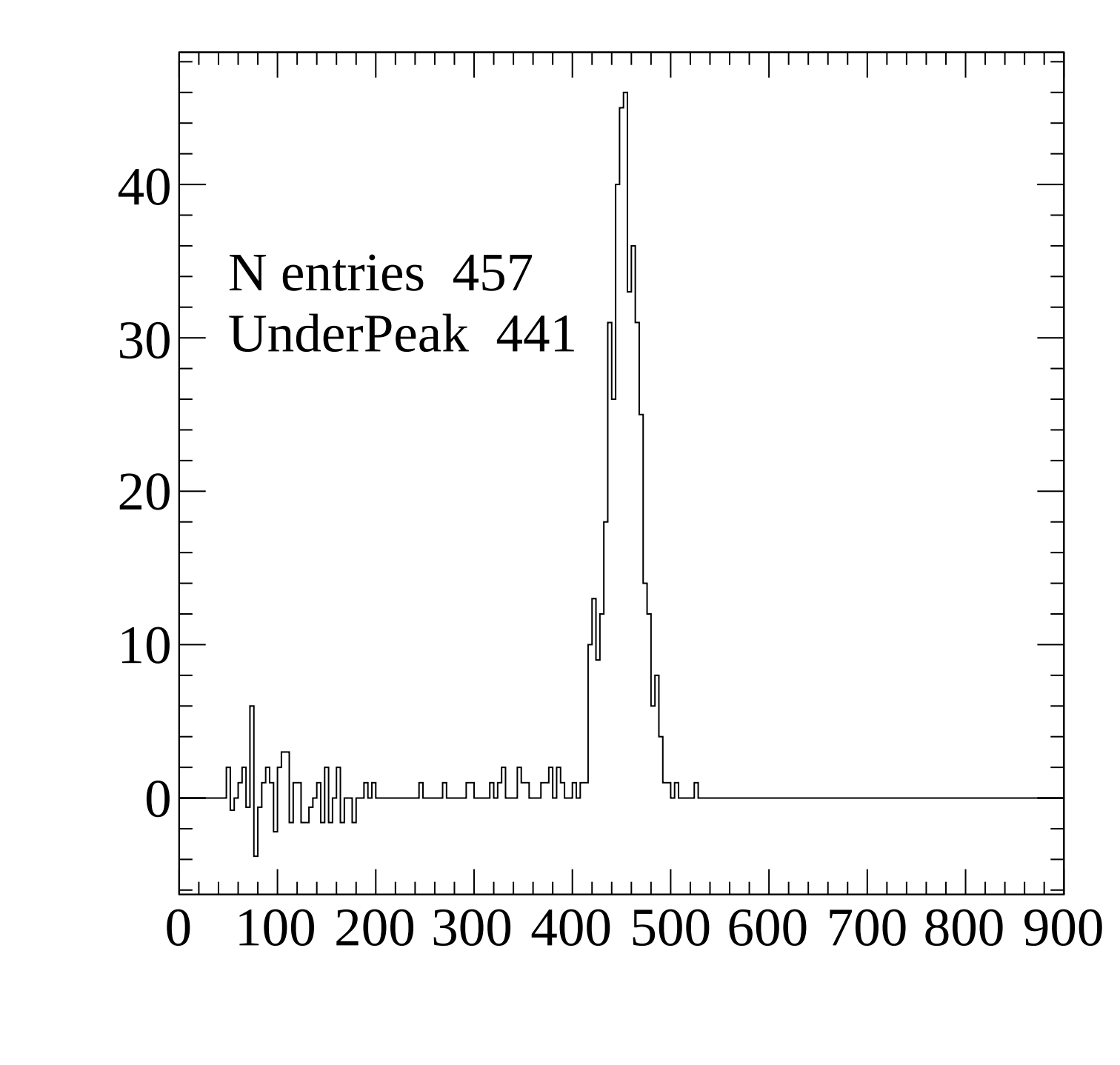

ECAL_twoPhotonInTime10ns1cmInRadiusRange130_280
PADME Internal
nPOT=2.69×10^10
Target
No Target
300
250
200
150
100
50
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ_1)+E(γ_2) [MeV]


N entries 2261
UnderPeak 2255
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900


ECAL_twoPhotonInTime10ns1cmInRadiusRange150_280
PADME Internal
nPOT=2.69×10^10
Target
No Target
140
120
100
80
60
40
20
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ_1)+E(γ_2) [MeV]


N entries 1095
UnderPeak 1087
120
100
80
60
40
20
0
0 100 200 300 400 500 600 700 800 900


ECAL_twoPhotonInTime10ns1cmInRadiusRange160_280
PADME Internal
nPOT=2.69×10^10
Target
No Target
50
40
30
20
10
0
10
1
10^−1
Target/NoTarget
0
100
200
300
400
500
600
700
800
900
E(γ_1)+E(γ_2) [MeV]


N entries 457
UnderPeak 441
40
30
20
10
0
0
100
200
300
400
500
600
700
800
900