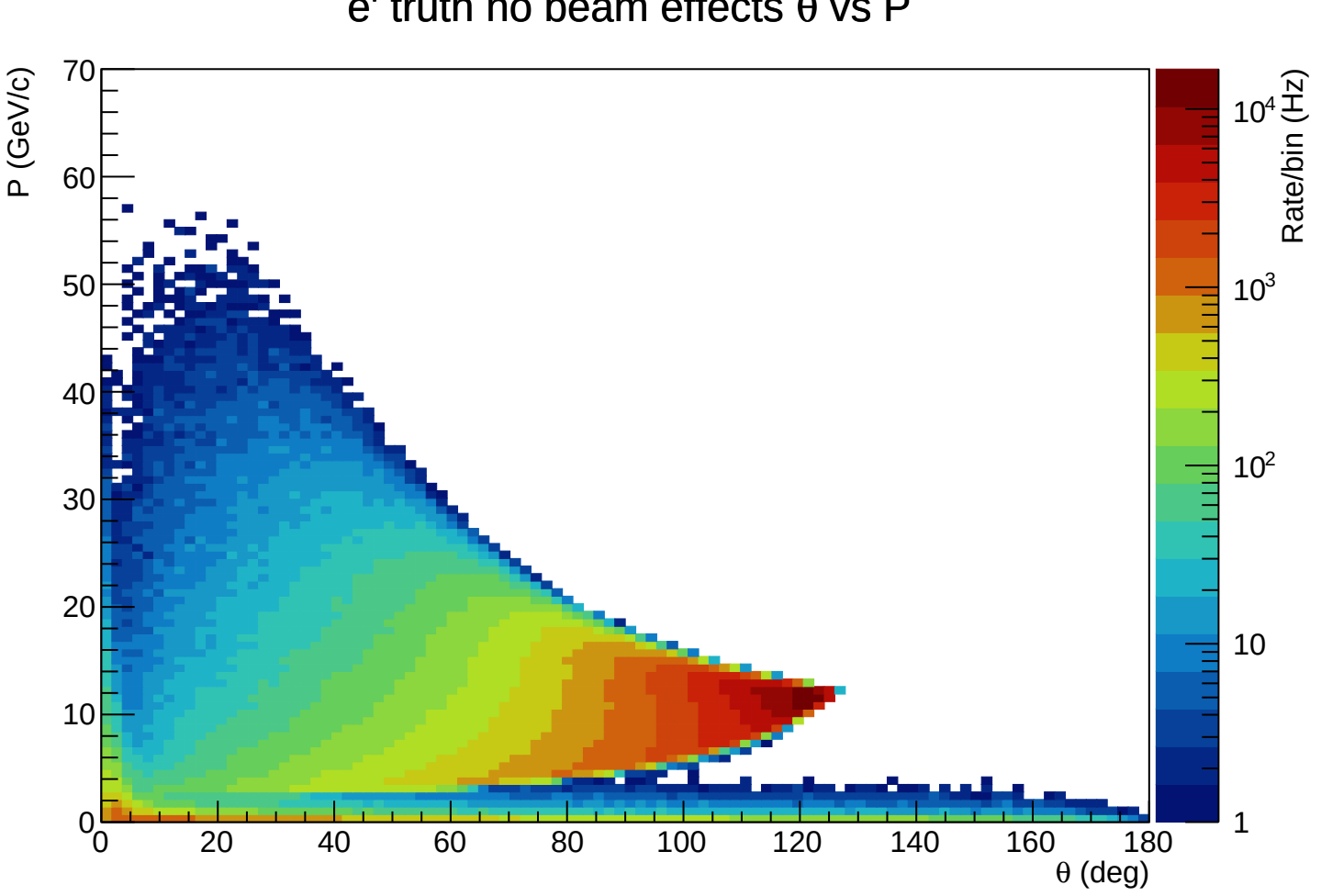
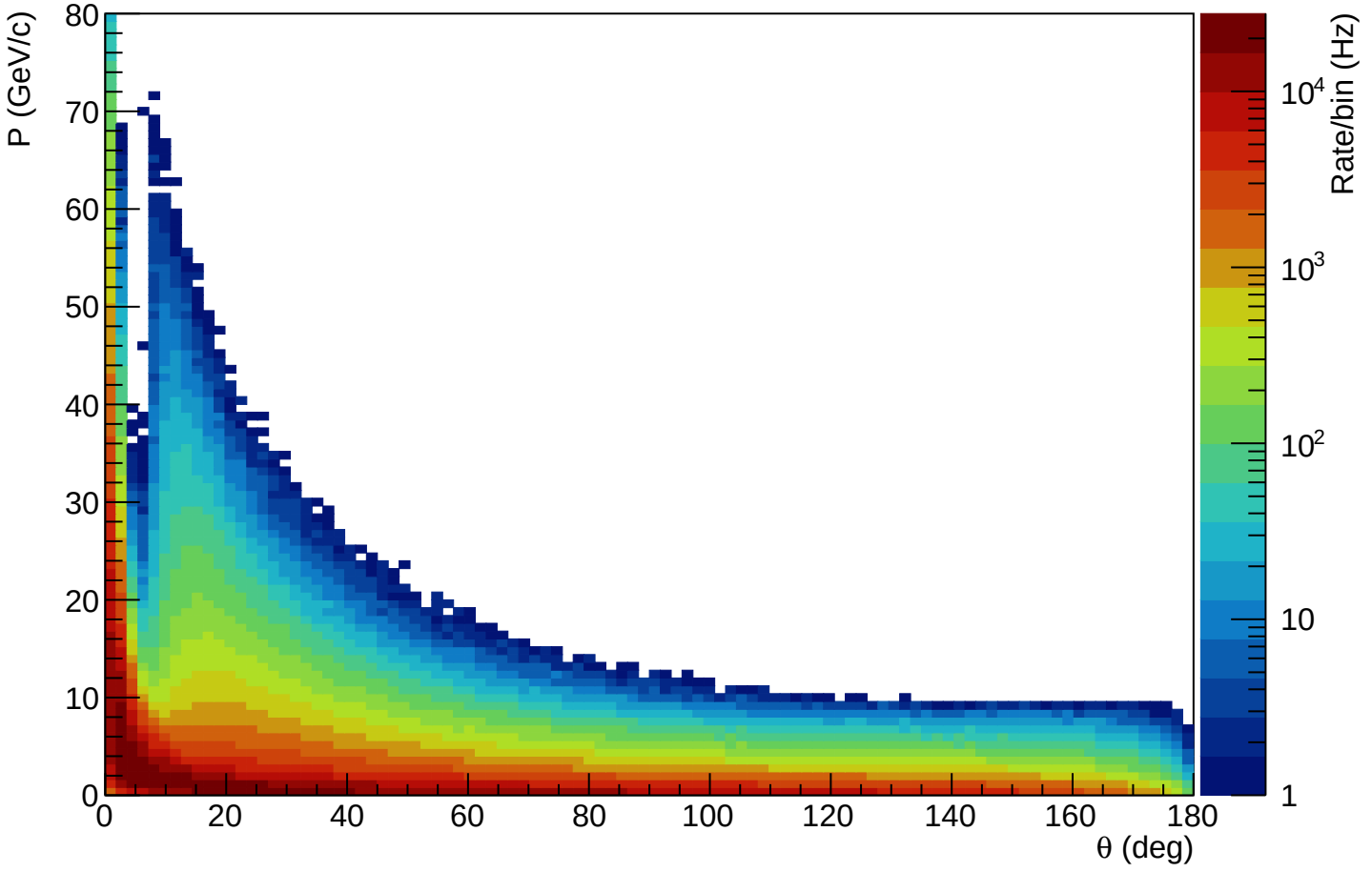
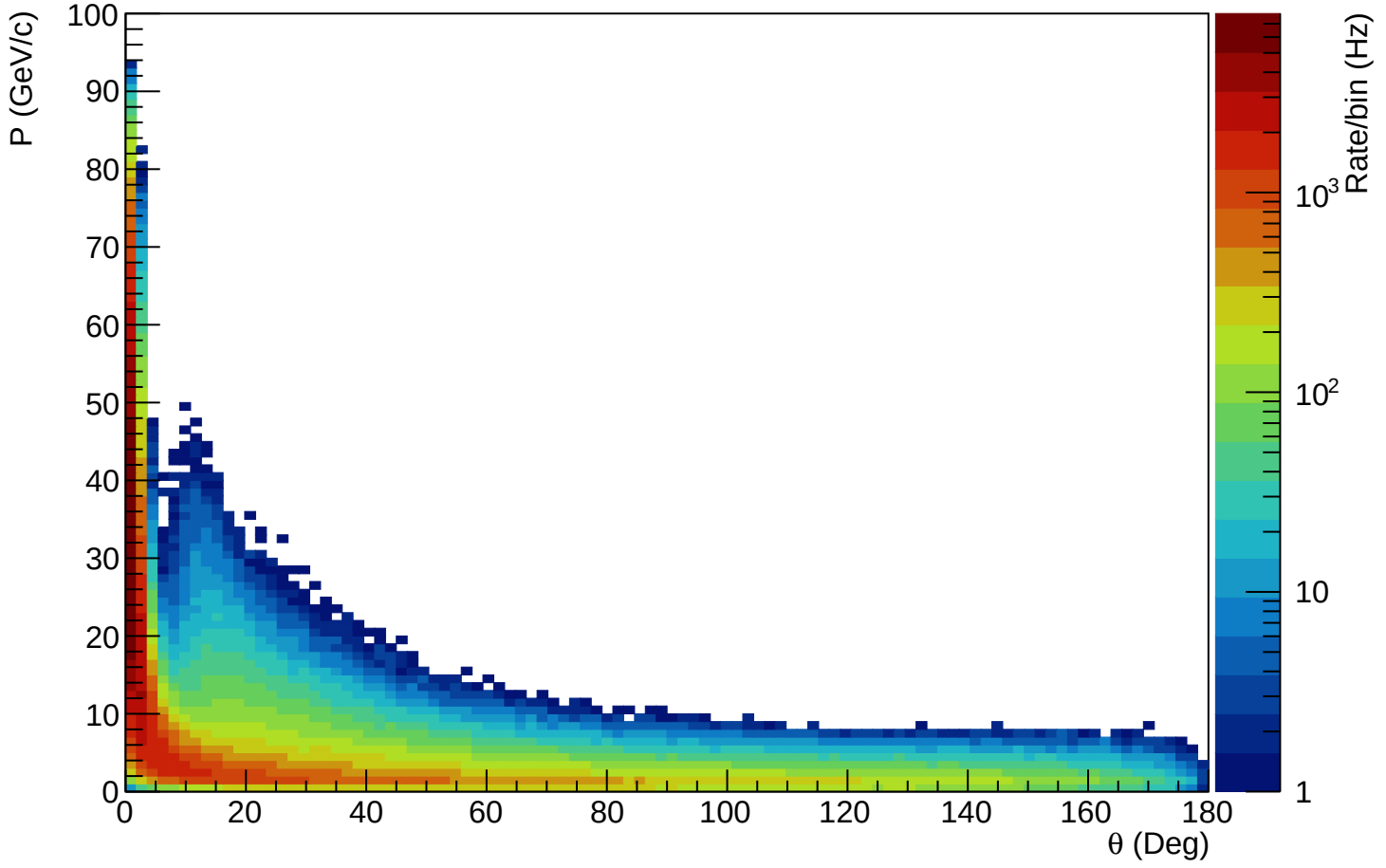
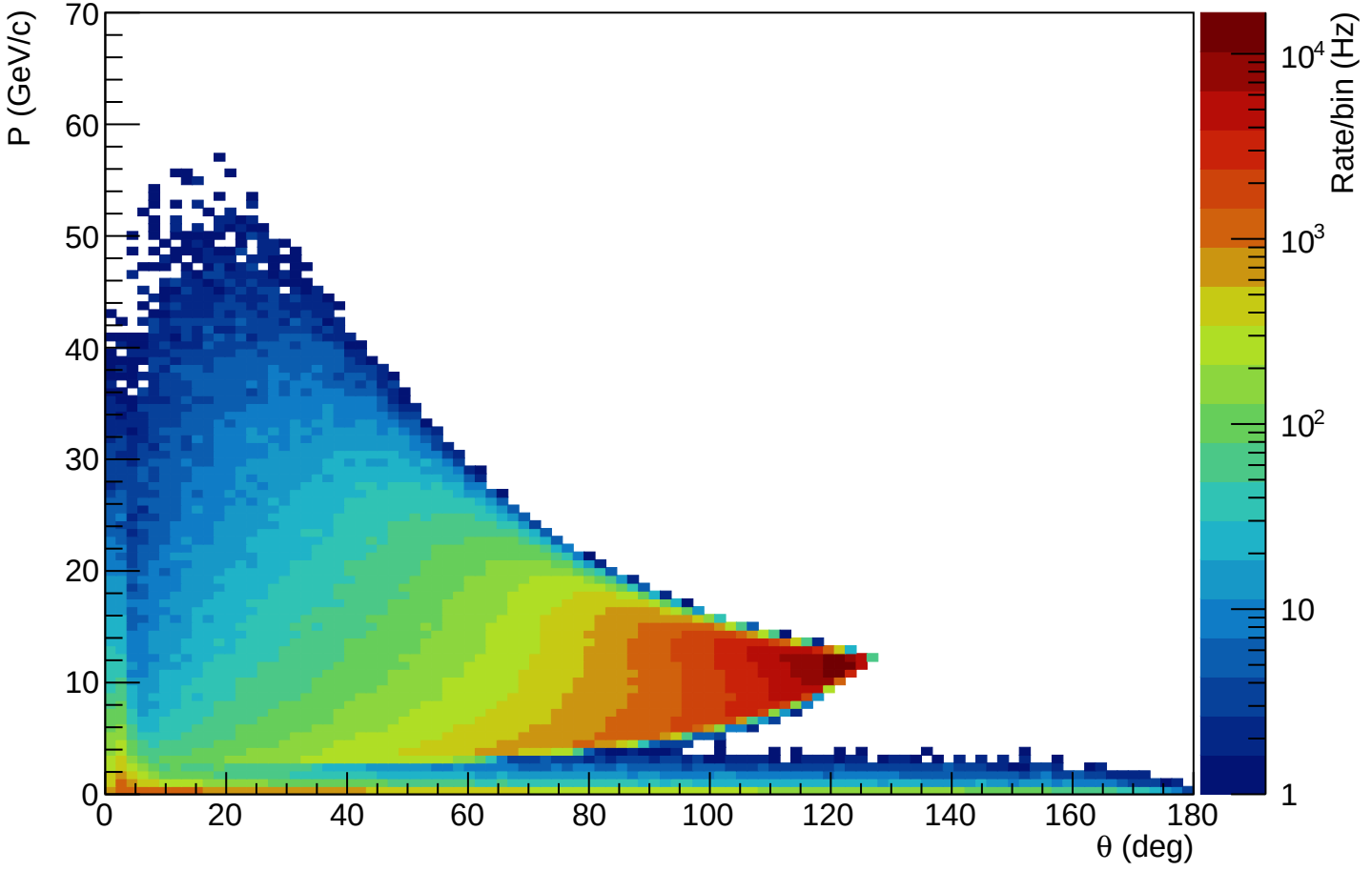
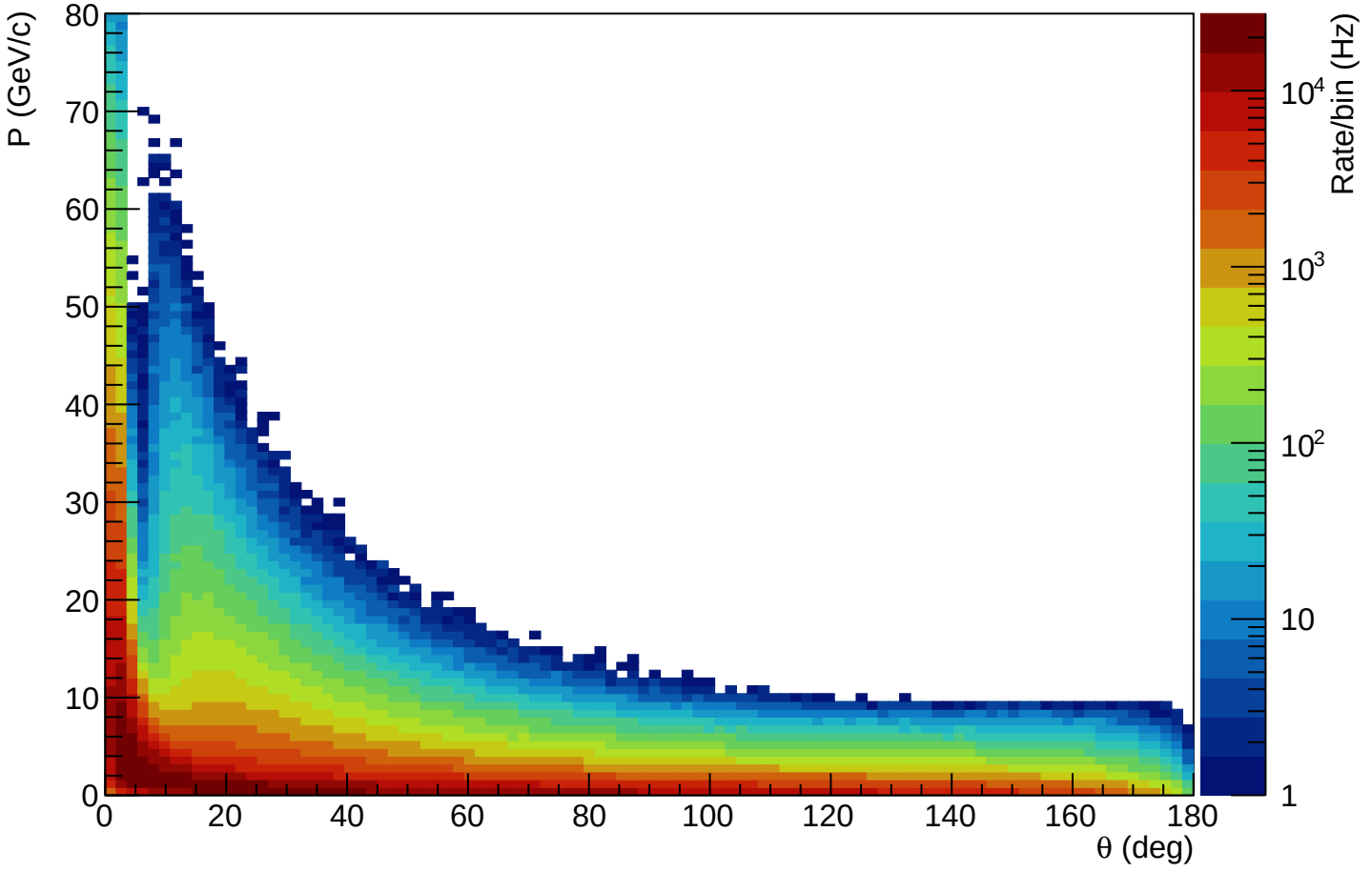
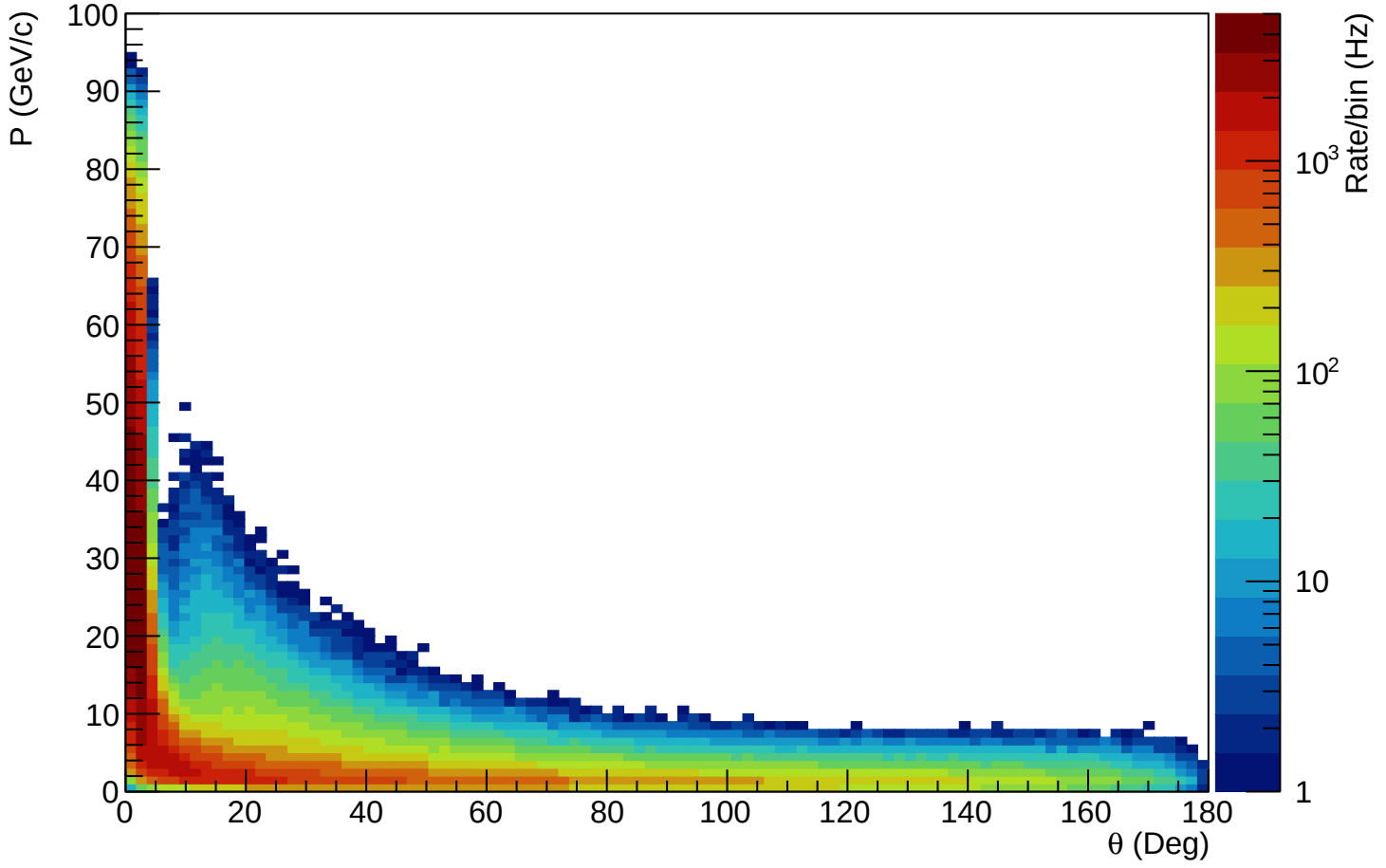

e' truth no beam effects θ vs P
P (GeV/c)
θ (deg)
Rate/bin (Hz)
0
10
20
30
40
50
60
70
0
20
40
60
80
100
120
140
160
180
1
10
10^2
10^3
10^4

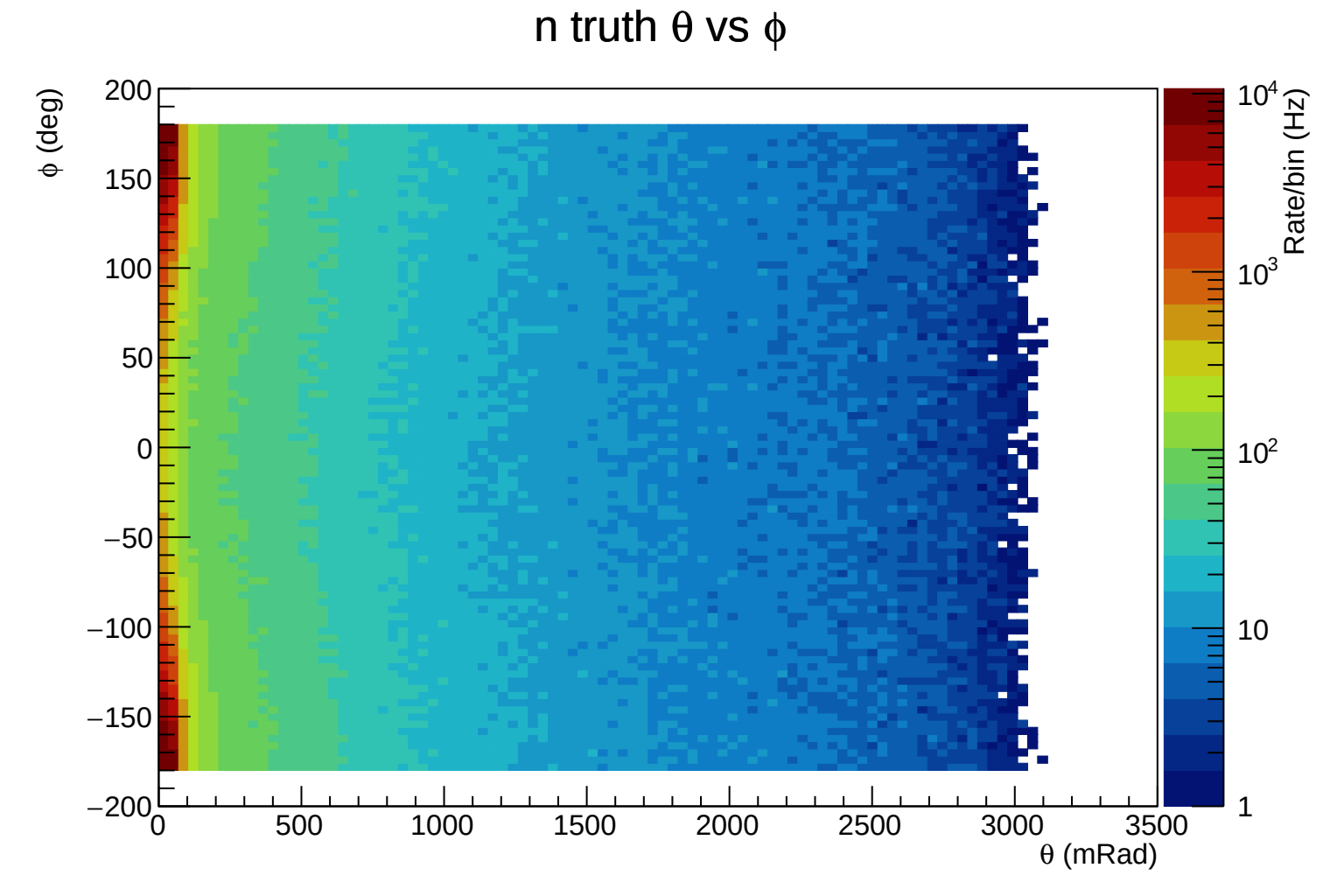

π^+ truth no beam effects θ vs P
P (GeV/c)
θ (deg)
Rate/bin (Hz)
0
10
20
30
40
50
60
70
80
0
20
40
60
80
100
120
140
160
180
1
10
10^2
10^3
10^4

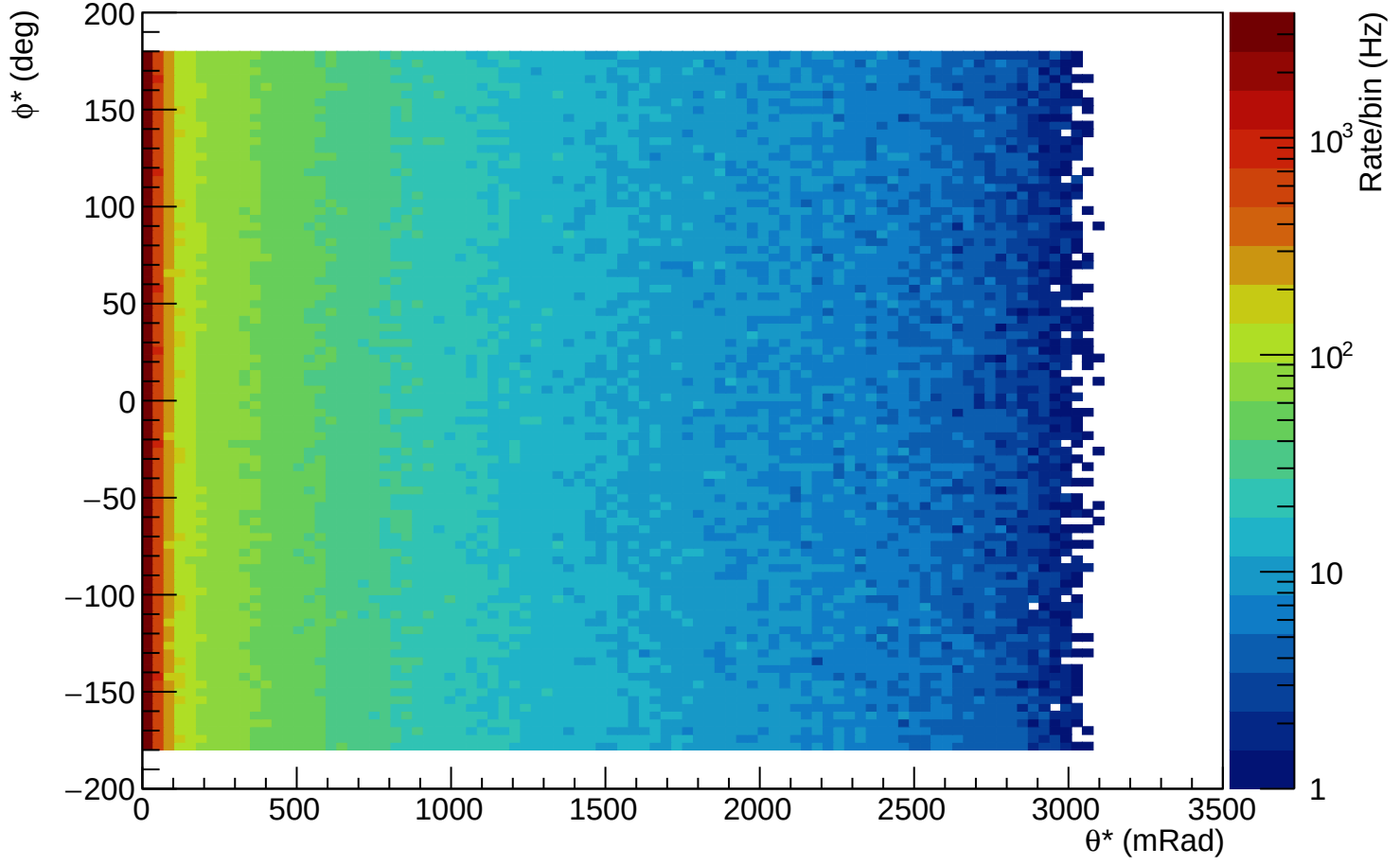

n truth no beam effects θ vs P
P (GeV/c)
θ (Deg)
Rate/bin (Hz)
0
10
20
30
40
50
60
70
80
90
100
0
20
40
60
80
100
120
140
160
180
1
10
10^2
10^3

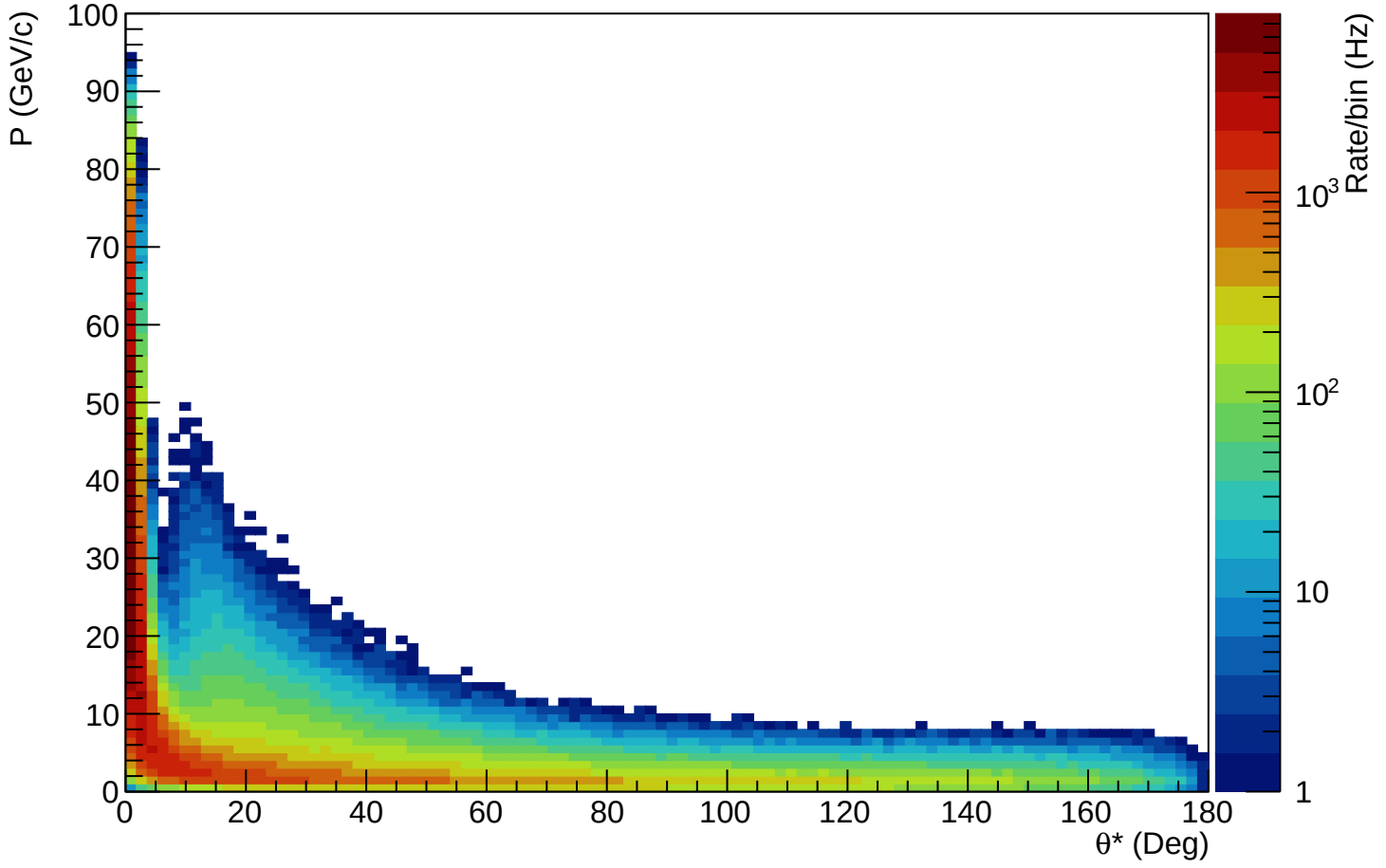

e' truth θ vs P
P (GeV/c)
θ (deg)
Rate/bin (Hz)
0
10
20
30
40
50
60
70
0
20
40
60
80
100
120
140
160
180
1
10
10^2
10^3
10^4

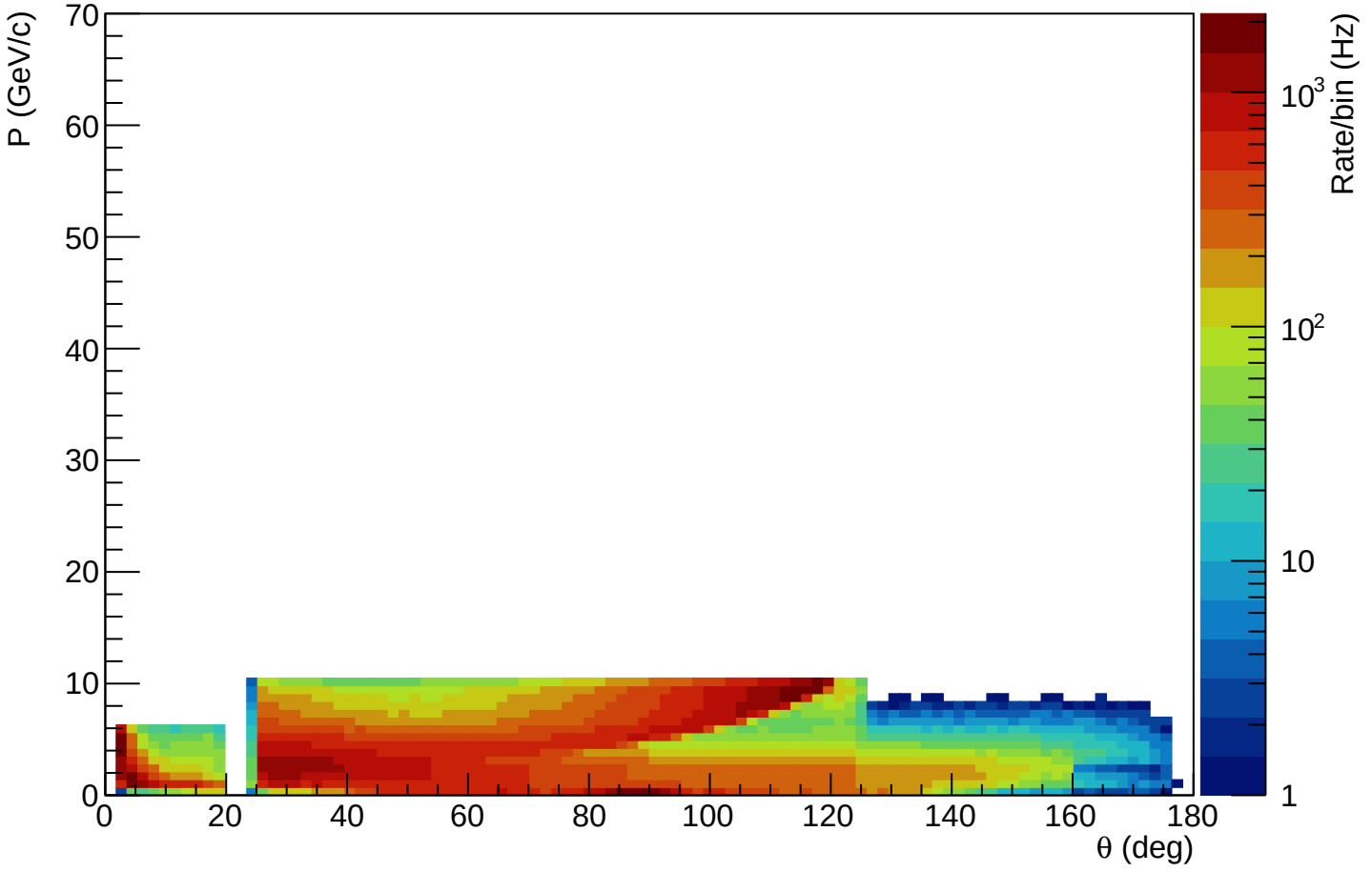

π^+ truth θ vs P
P (GeV/c)
θ (deg)
Rate/bin (Hz)
0
10
20
30
40
50
60
70
80
0
20
40
60
80
100
120
140
160
180
1
10
10^2
10^3
10^4

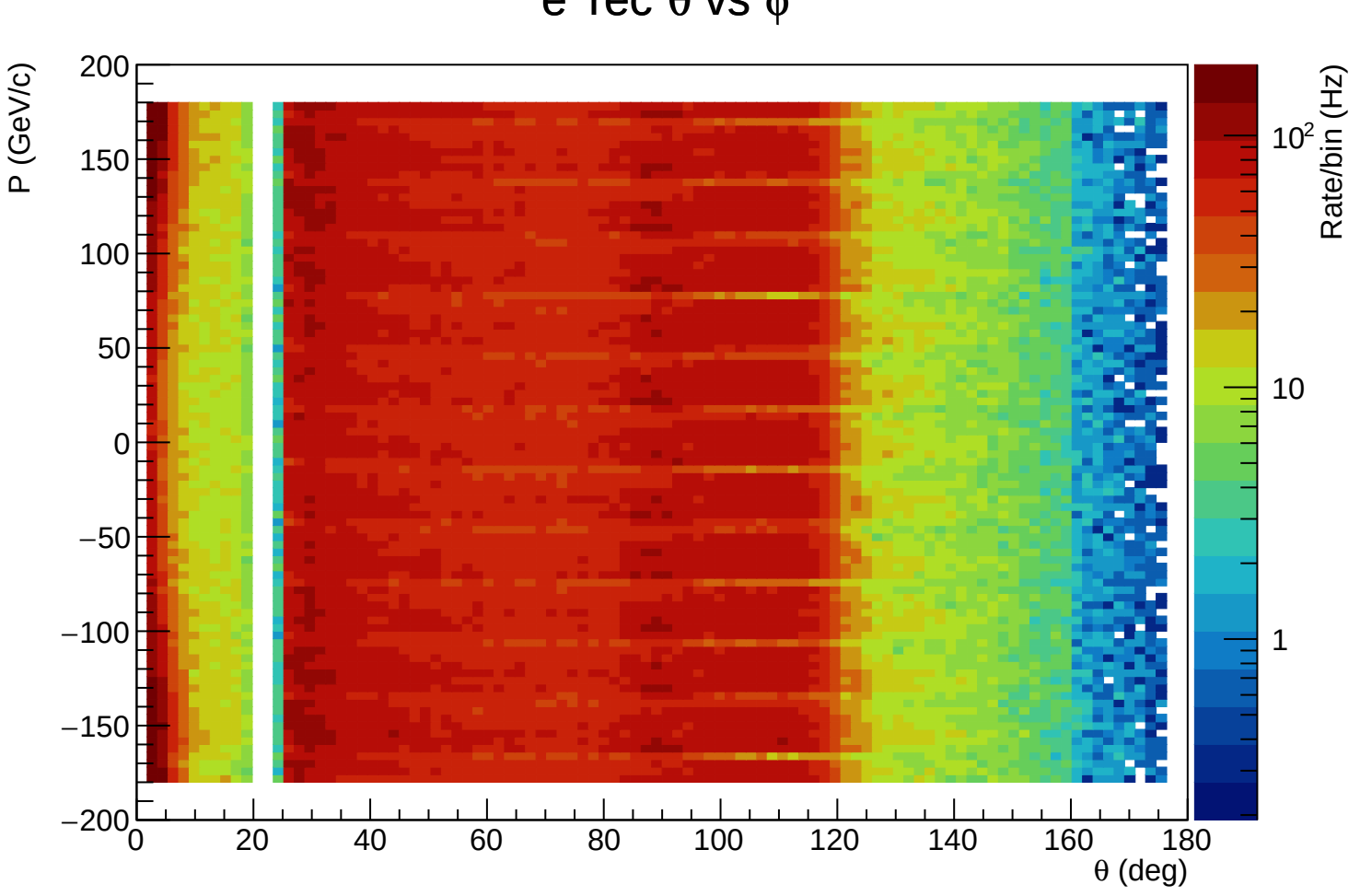

n truth θ vs P
P (GeV/c)
θ (Deg)
Rate/bin (Hz)
0
10
20
30
40
50
60
70
80
90
100
0
20
40
60
80
100
120
140
160
180
1
10
10^2
10^3

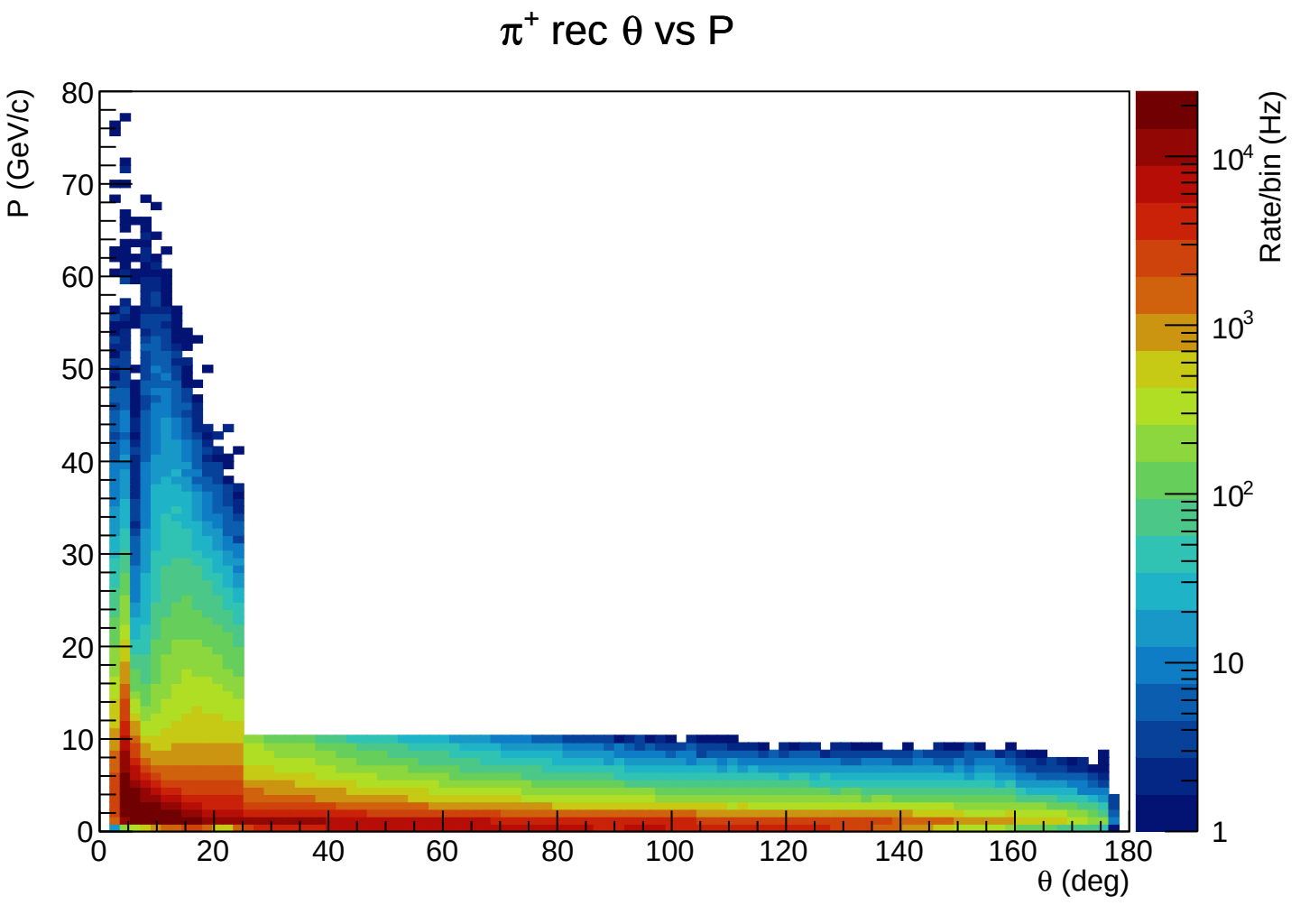

n truth θ vs ϕ
ϕ (deg)
200
150
100
50
0
−50
−100
−150
−200
0
500
1000
1500
2000
2500
3000
3500
θ (mRad)
Rate/bin (Hz)
10^4
10^3
10^2
10
1

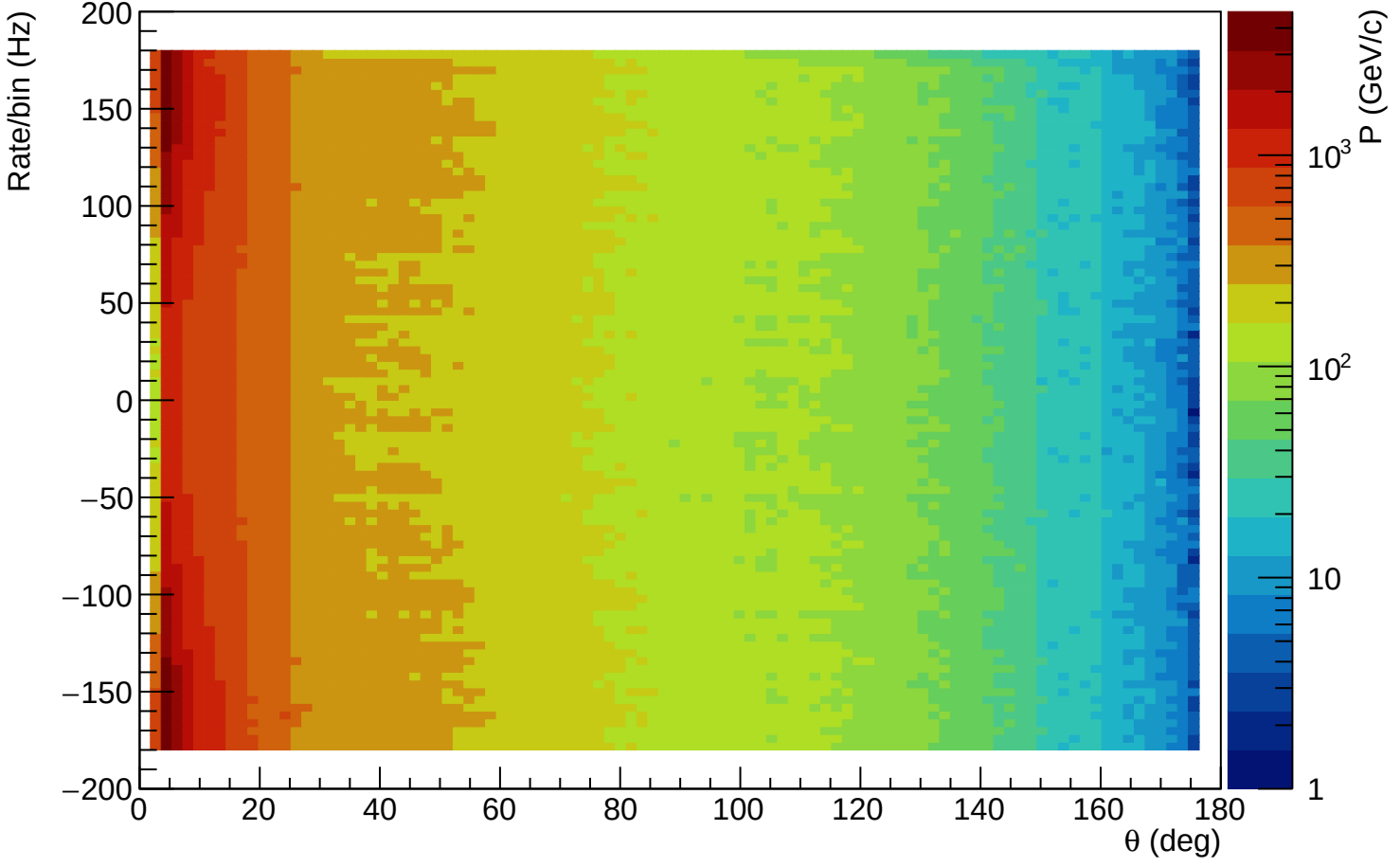

n truth θ* vs ϕ* around p axis
ϕ* (deg)
200
150
100
50
0
−50
−100
−150
−200
0
500
1000
1500
2000
2500
3000
3500
θ* (mRad)
Rate/bin (Hz)
10³
10²
10
1

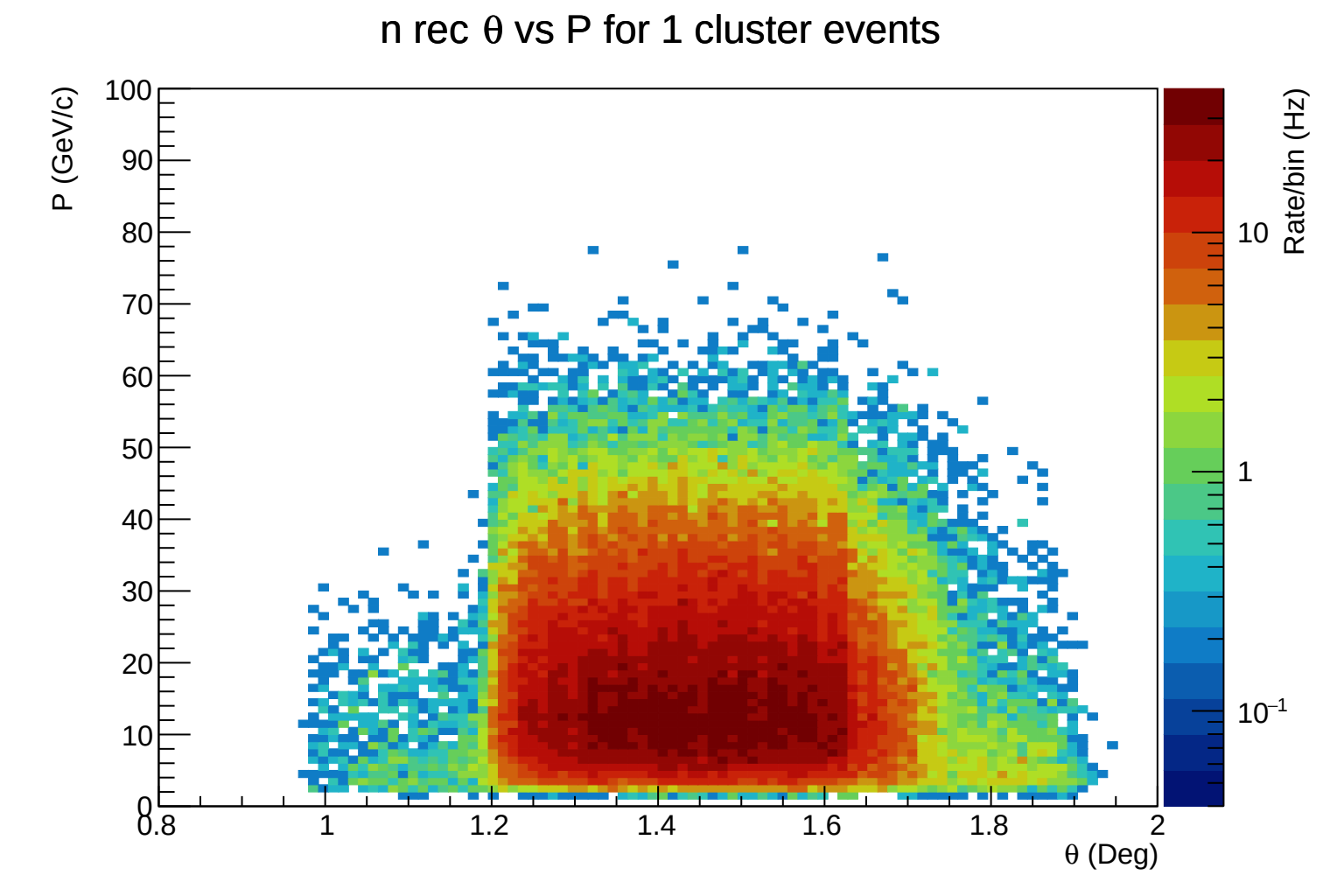

n truth θ* vs P around p axis
P (GeV/c)
θ* (Deg)
Rate/bin (Hz)
0
10
20
30
40
50
60
70
80
90
100
0
20
40
60
80
100
120
140
160
180
1
10
10^2
10^3

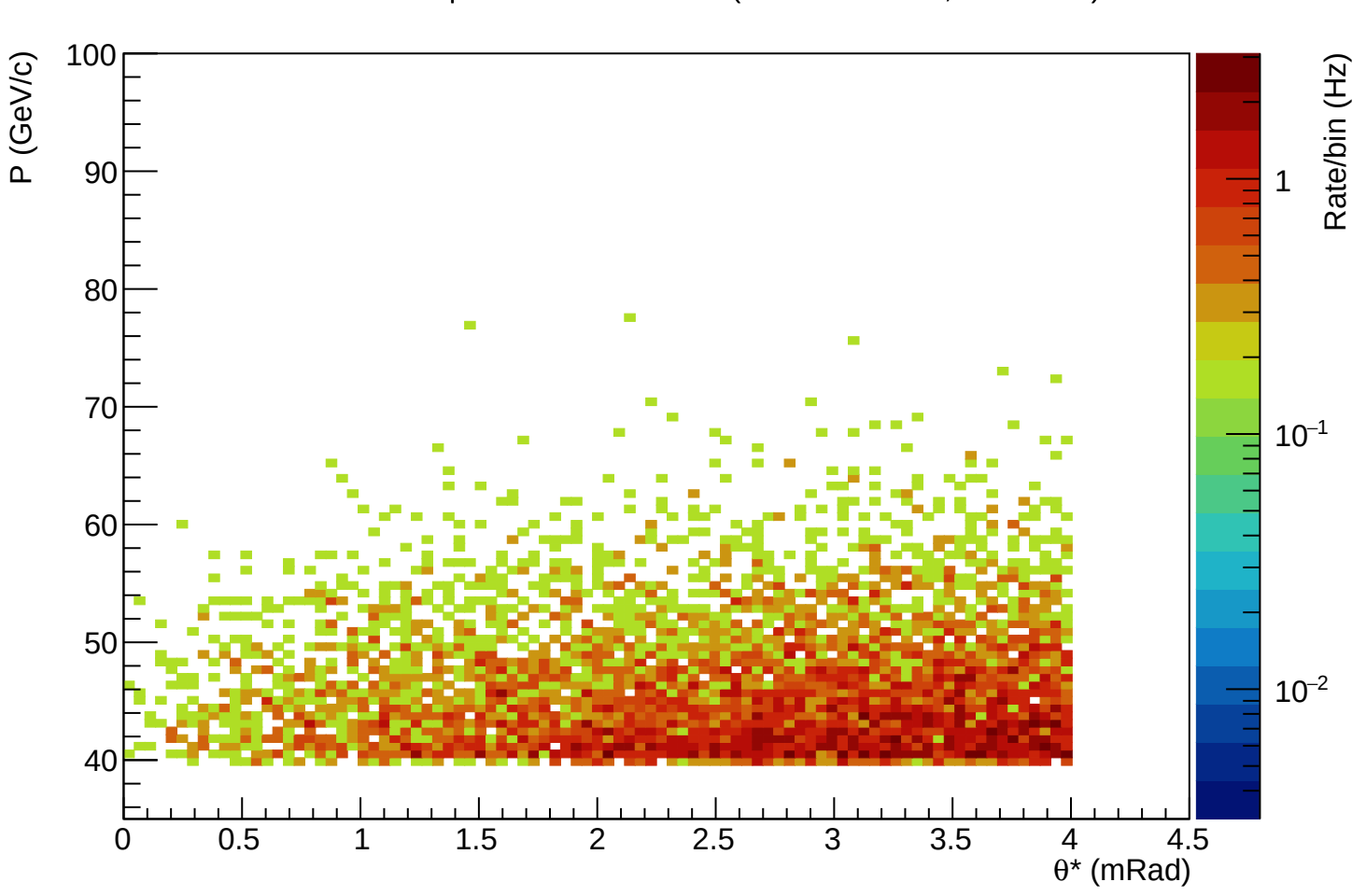

e' rec θ vs P
P (GeV/c)
70
60
50
40
30
20
10
0
0
20
40
60
80
100
120
140
160
180
θ (deg)
Rate/bin (Hz)
10^3
10^2
10
1

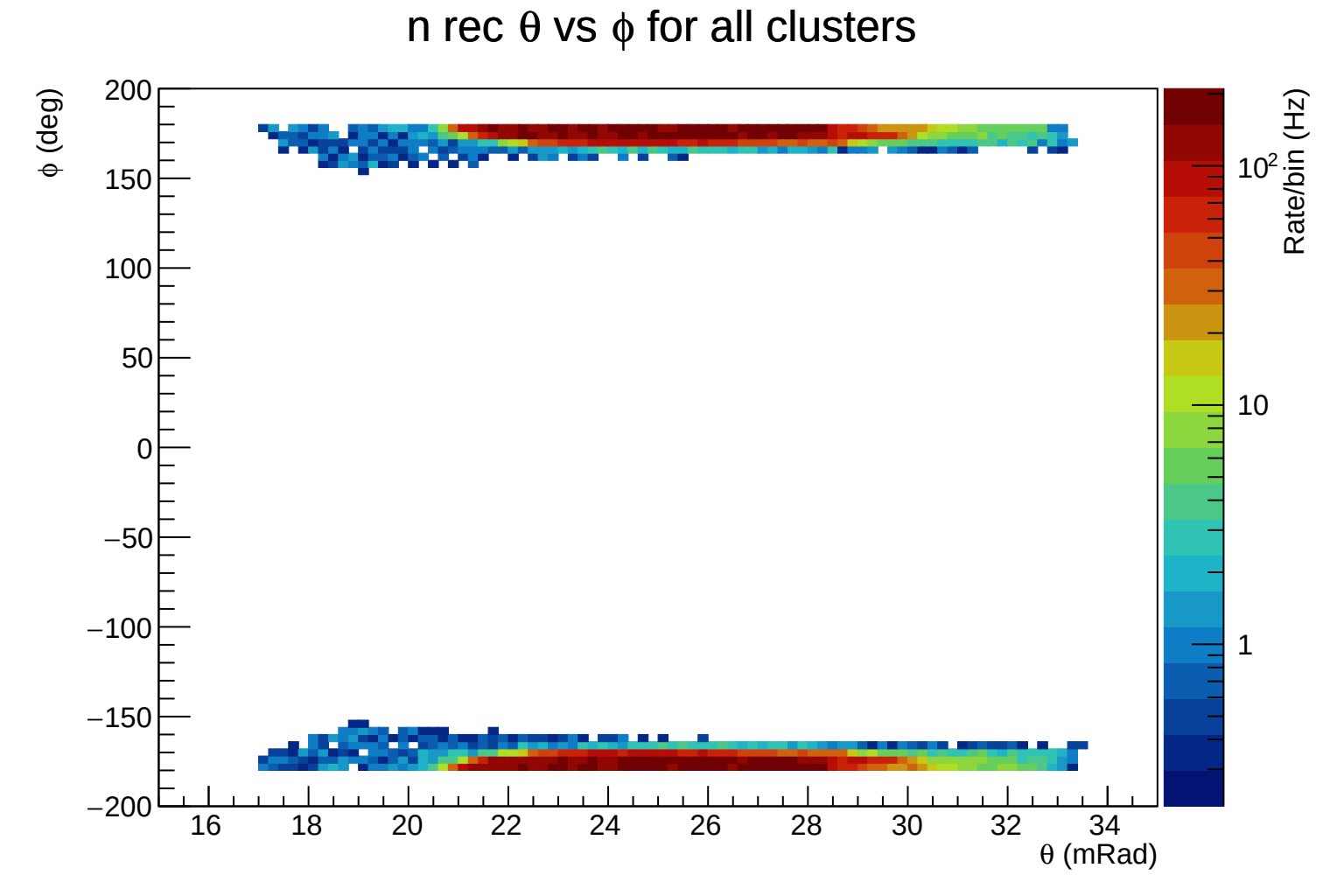

e' rec θ vs ϕ
P (GeV/c)
200
150
100
50
0
−50
−100
−150
−200
0
20
40
60
80
100
120
140
160
180
θ (deg)
Rate/bin (Hz)
10^2
10
1

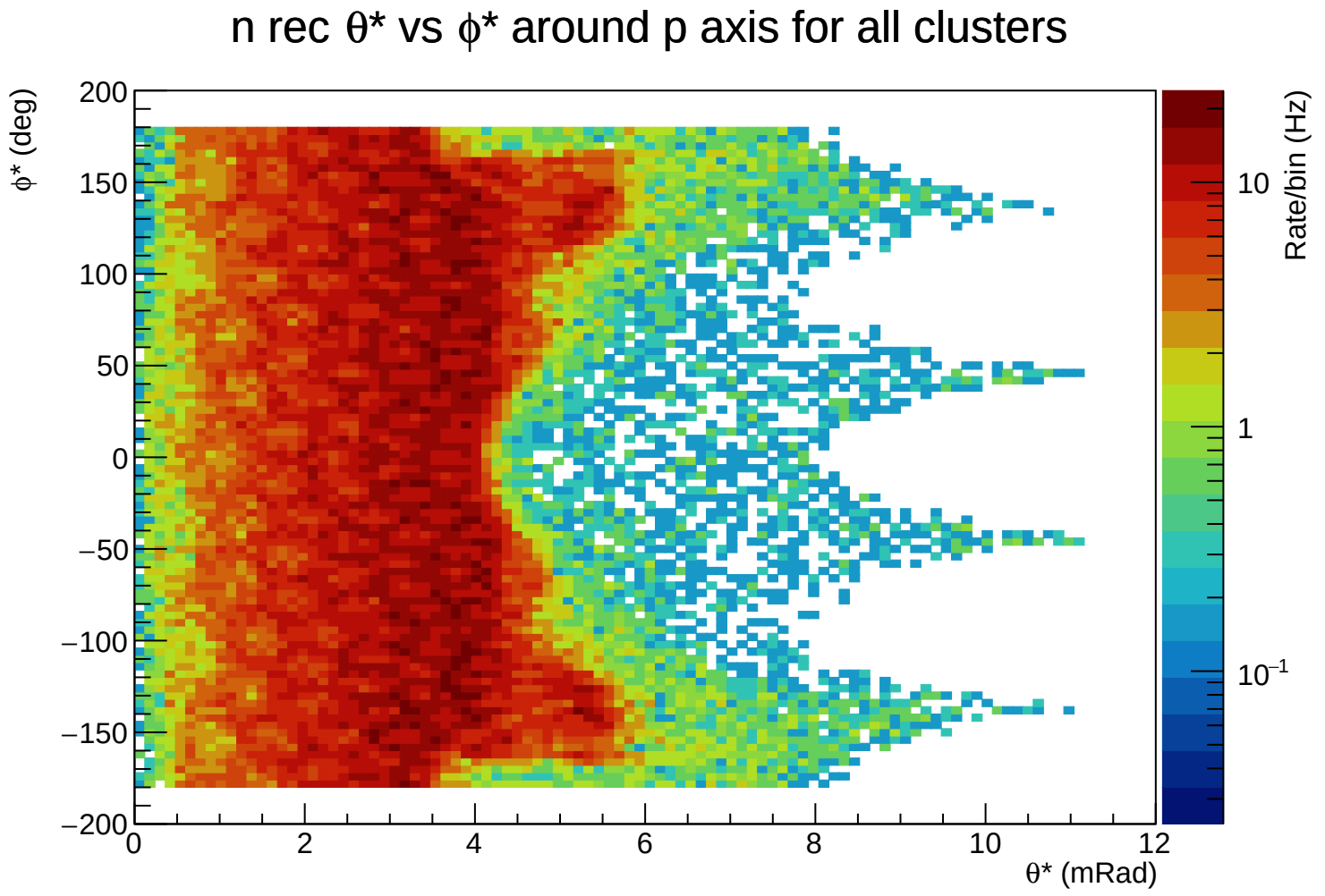

π^+ rec θ vs P
P (GeV/c)
θ (deg)
Rate/bin (Hz)
0
10
20
30
40
50
60
70
80
0
20
40
60
80
100
120
140
160
180
1
10
10^2
10^3
10^4

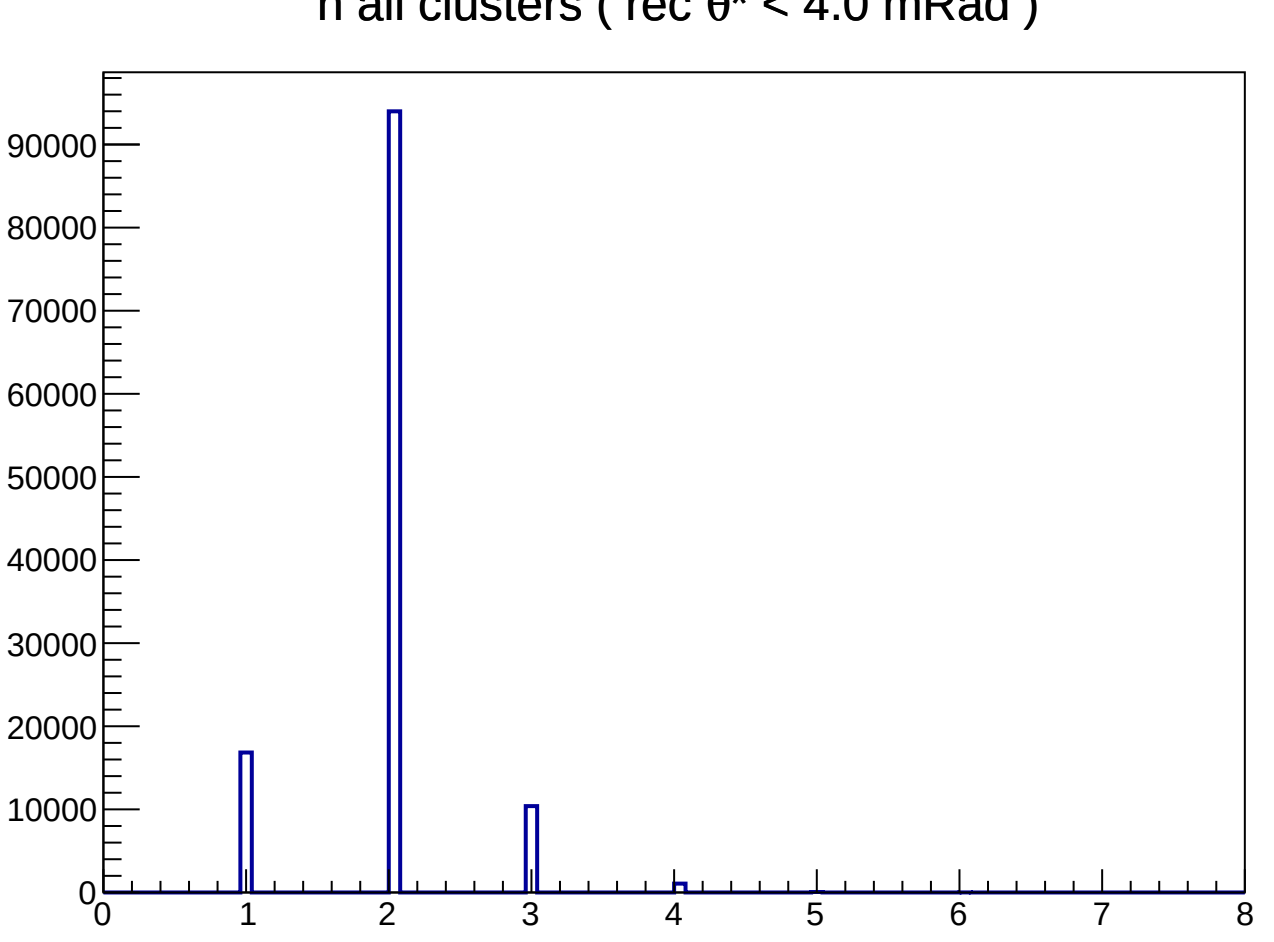

π^+ rec θ vs ϕ
Rate/bin (Hz)
200
150
100
50
0
−50
−100
−150
−200
0
20
40
60
80
100
120
140
160
180
θ (deg)
P (GeV/c)
10^3
10^2
10
1

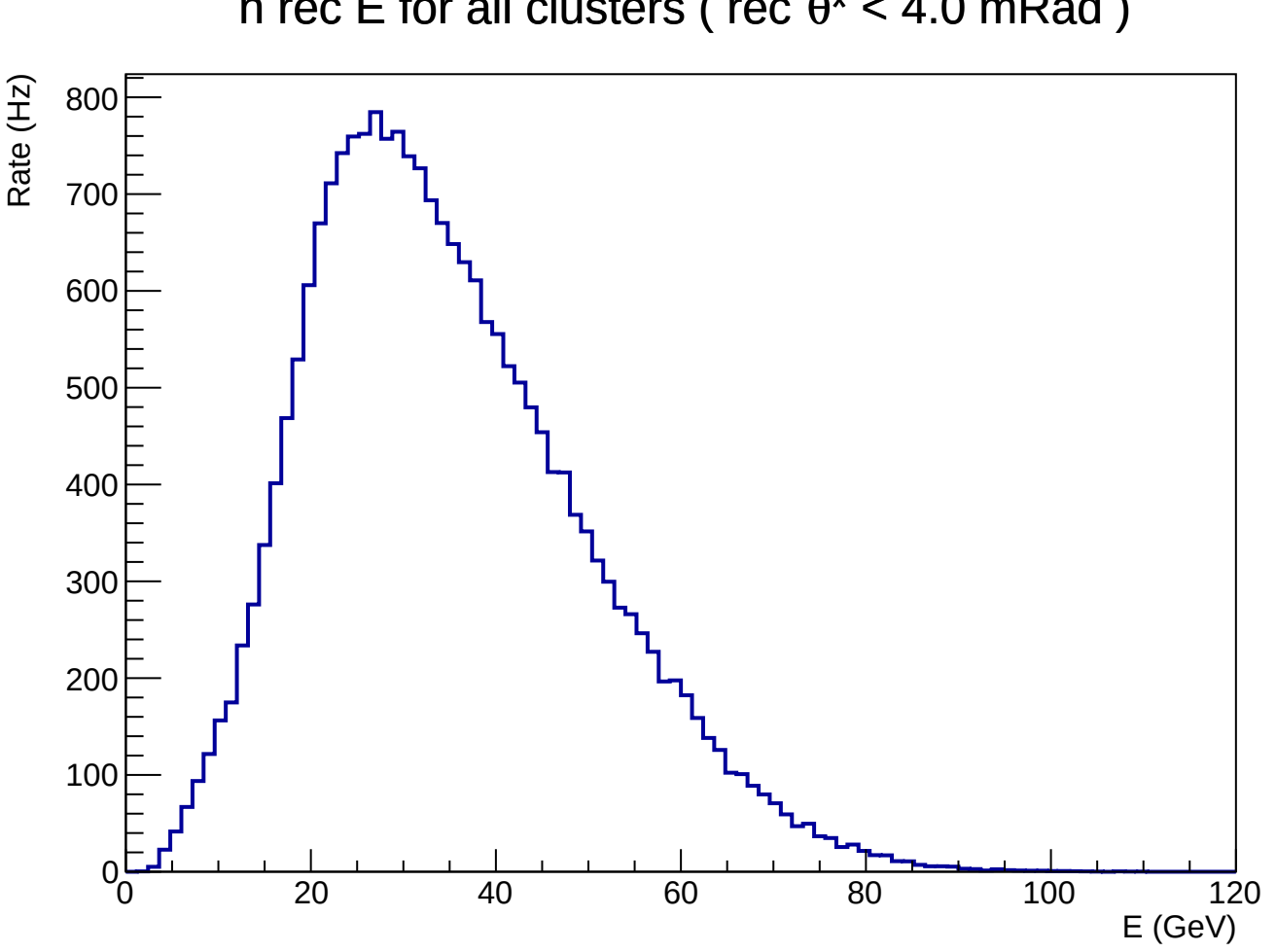

n rec θ vs P for 1 cluster events
P (GeV/c)
θ (Deg)
Rate/bin (Hz)
0
10
20
30
40
50
60
70
80
90
100
0.8
1
1.2
1.4
1.6
1.8
2
10
1
10^{-1}

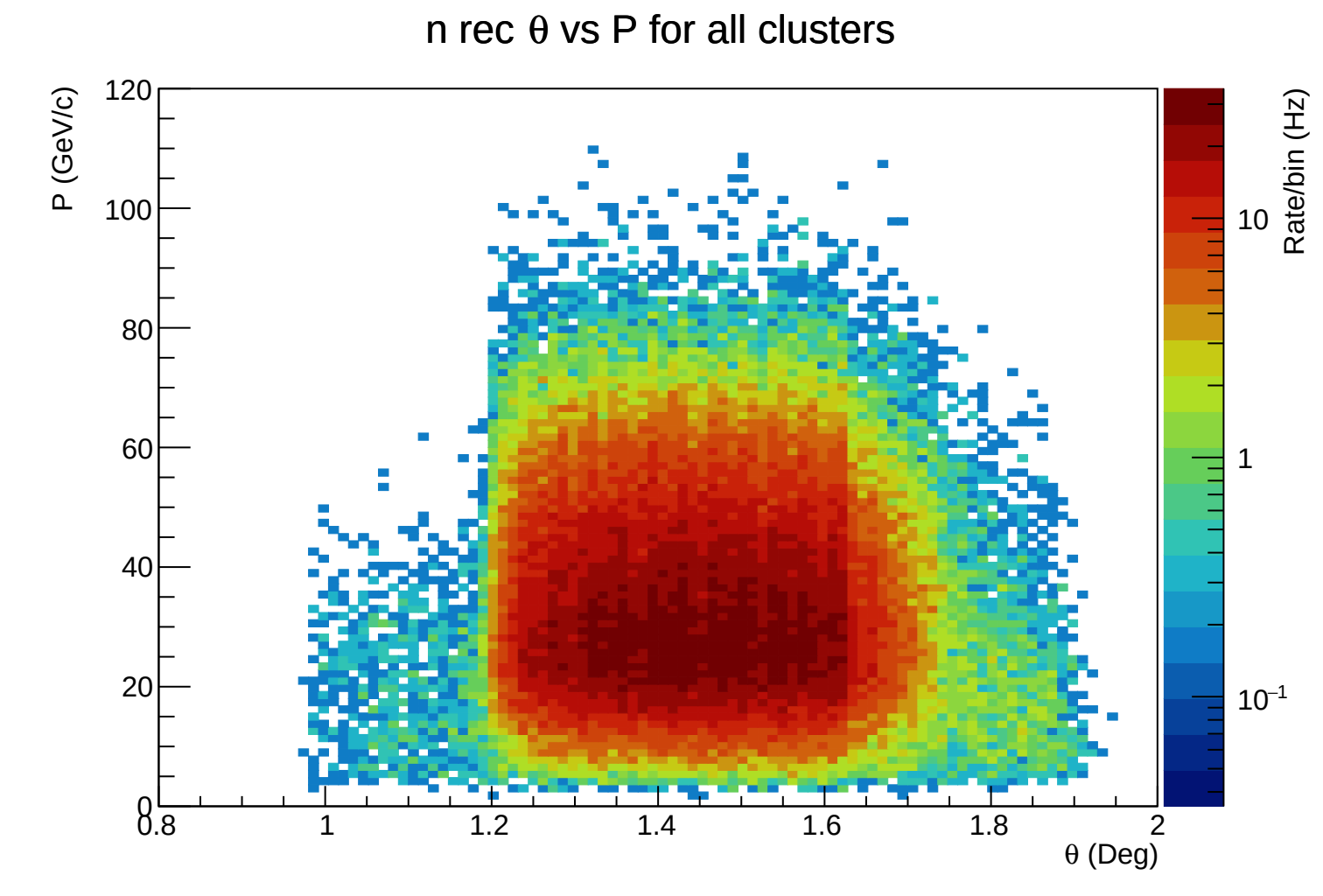

n rec θ* vs P around p axis for 1 cluster events (rec θ* < 4.0 mRad, E > 40 GeV)
P (GeV/c)
100
90
80
70
60
50
40
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
θ* (mRad)
Rate/bin (Hz)
1
10^{-1}
10^{-2}

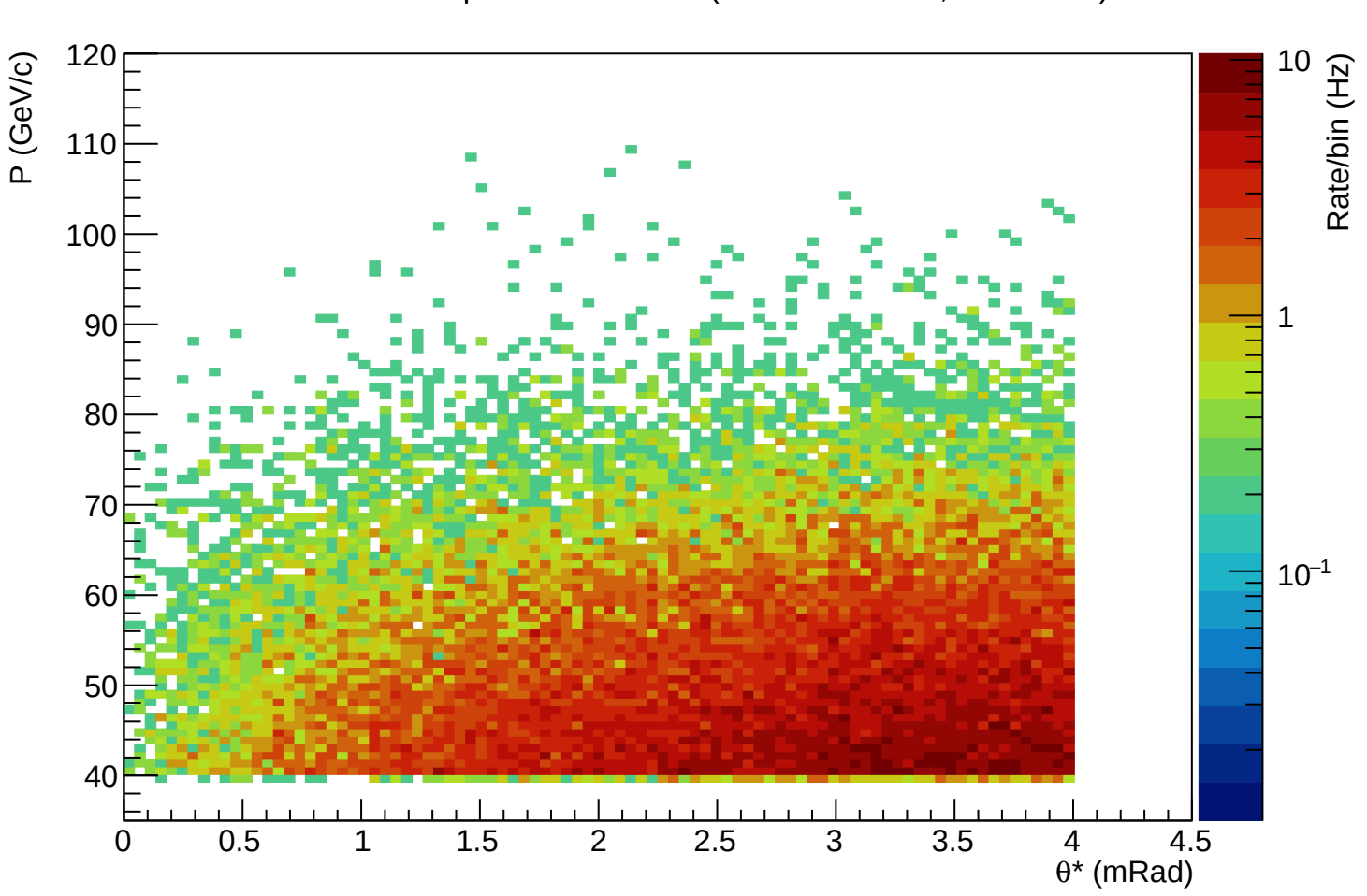

n rec θ vs ϕ for all clusters
ϕ (deg)
200
150
100
50
0
−50
−100
−150
−200
16
18
20
22
24
26
28
30
32
34
θ (mRad)
Rate/bin (Hz)
10^2
10
1

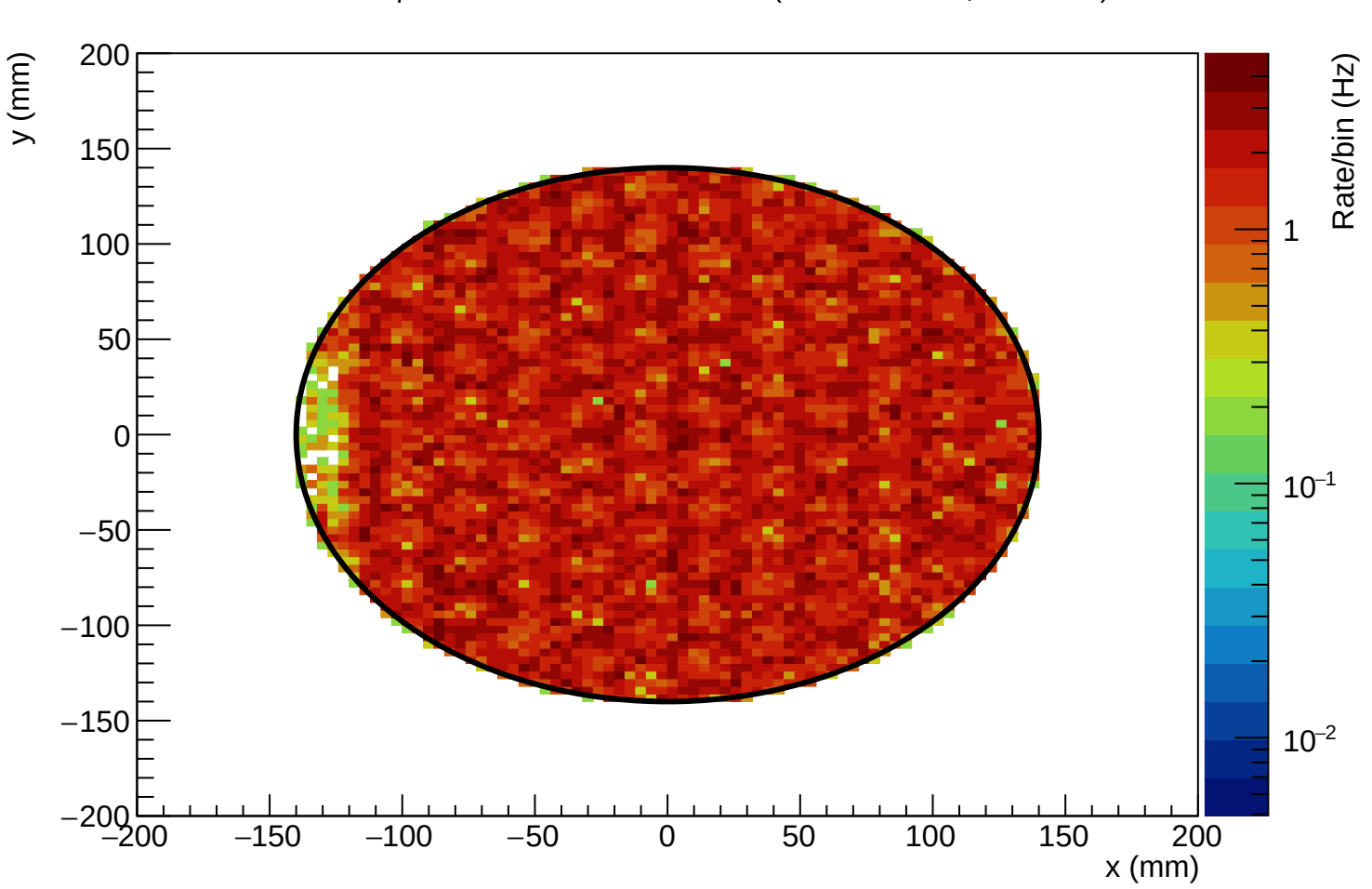

n rec θ* vs ϕ* around p axis for all clusters
ϕ* (deg)
200
150
100
50
0
−50
−100
−150
−200
0
2
4
6
8
10
12
θ* (mRad)
Rate/bin (Hz)
10
1
10^{-1}

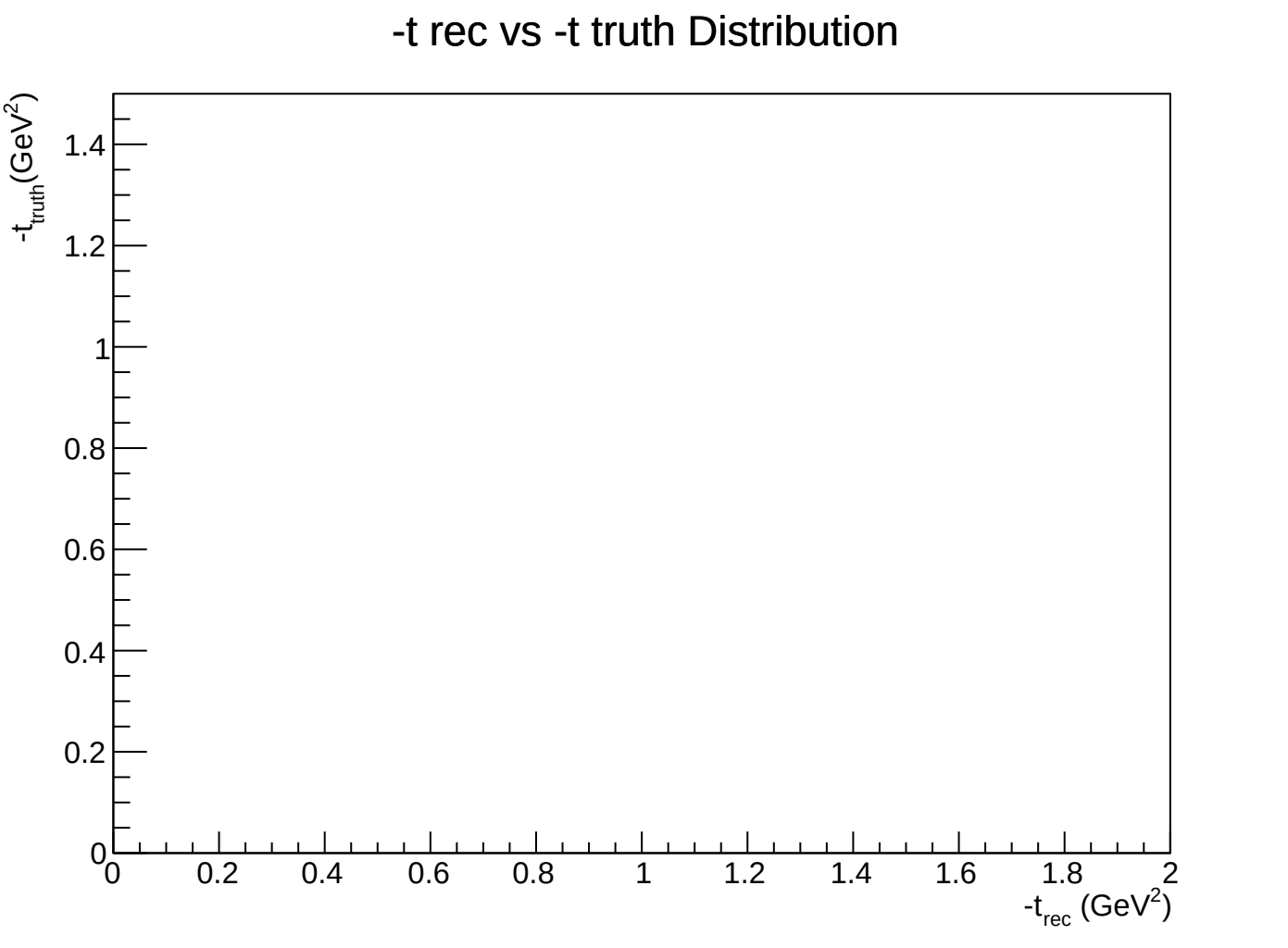

n all clusters (rec θ* < 4.0 mRad)
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
0
1
2
3
4
5
6
7
8

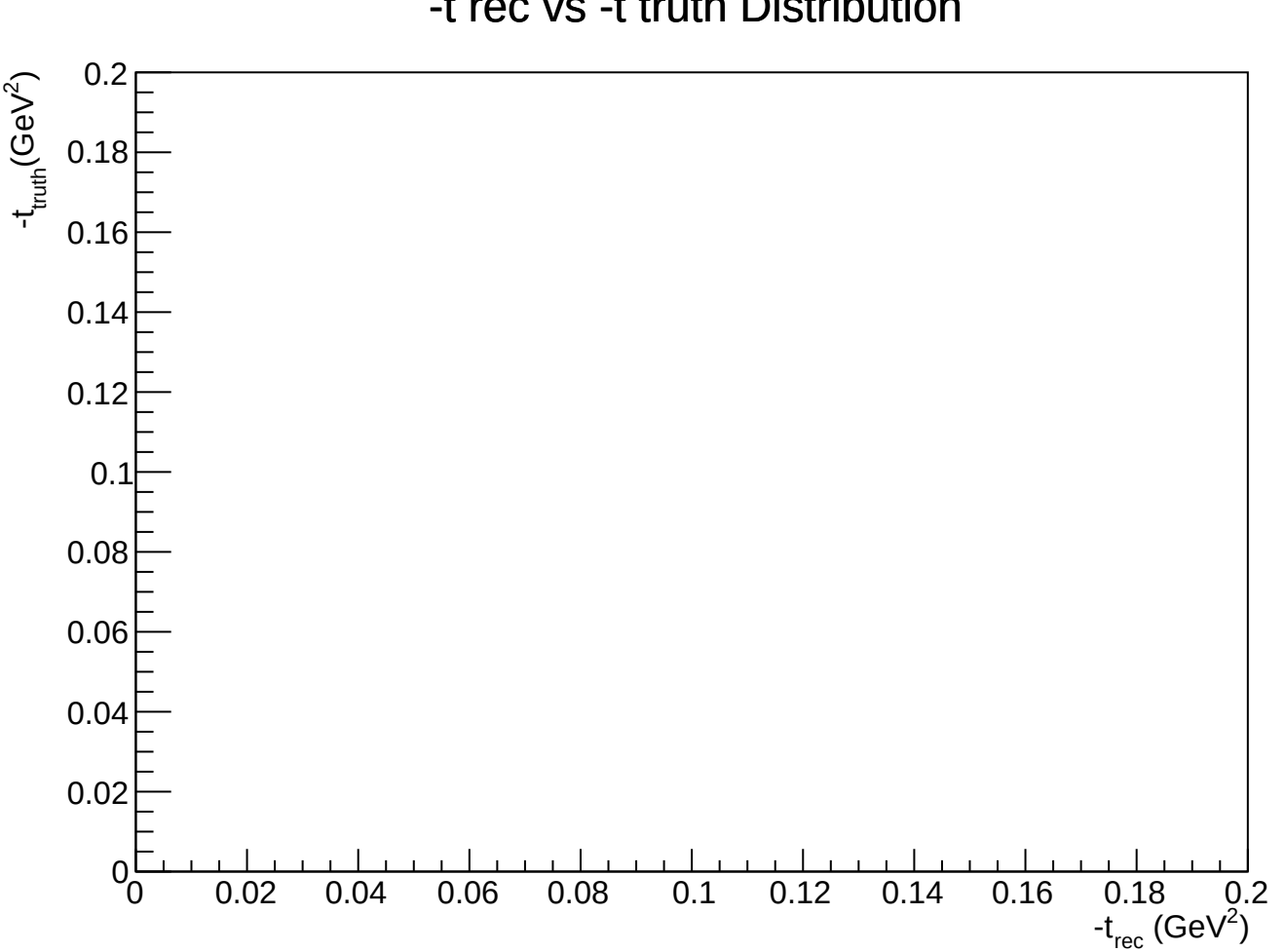

n rec E for all clusters (rec θ* < 4.0 mRad)
Rate (Hz)
800
700
600
500
400
300
200
100
0
0
20
40
60
80
100
120
E (GeV)

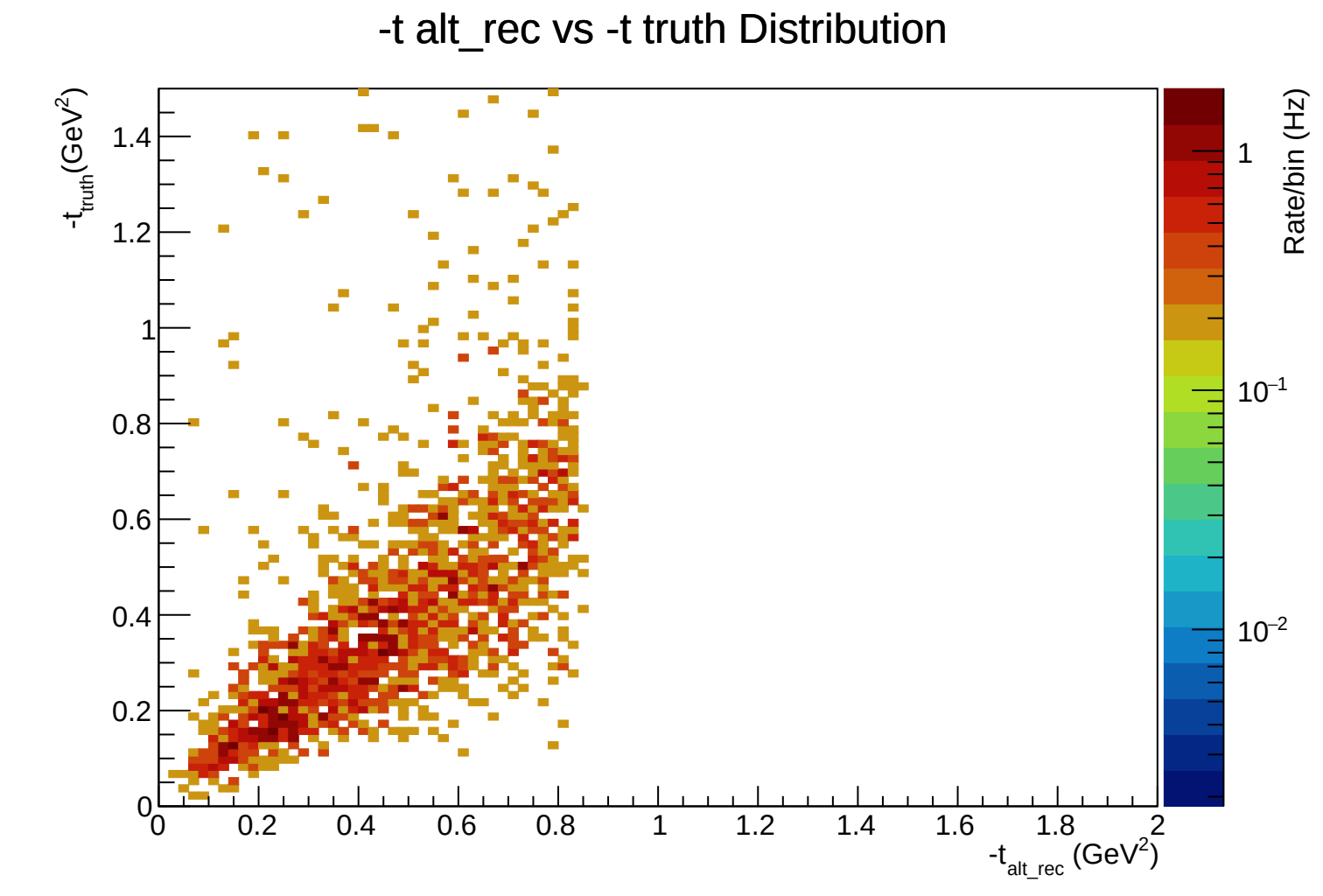

n rec θ vs P for all clusters
P (GeV/c)
120
100
80
60
40
20
0
0.8
1
1.2
1.4
1.6
1.8
2
θ (Deg)
Rate/bin (Hz)
10
1
10⁻¹

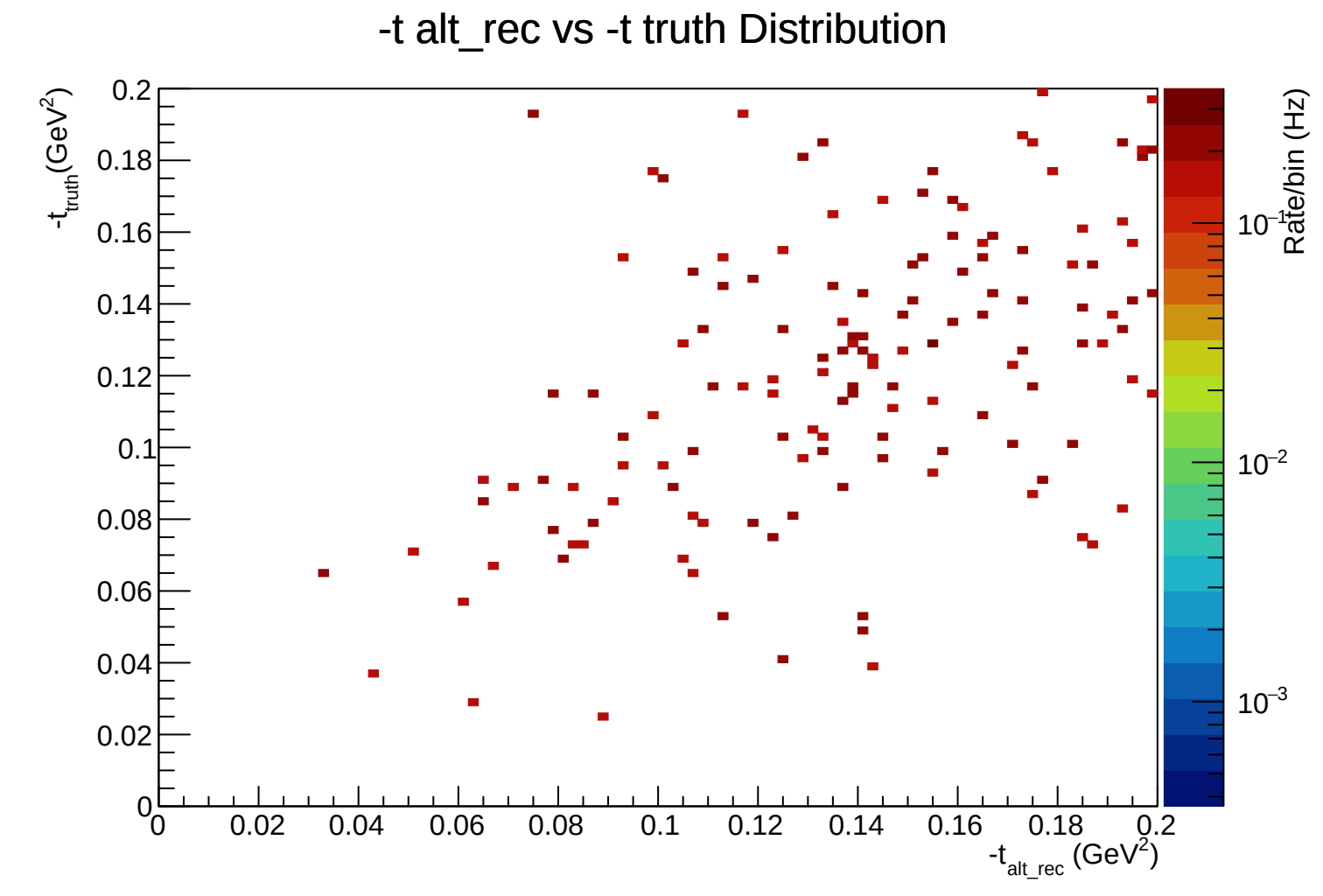

n rec θ* vs P around p axis for all clusters (rec θ* < 4.0 mRad, E > 40 GeV)
P (GeV/c)
120
110
100
90
80
70
60
50
40
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
θ* (mRad)
Rate/bin (Hz)
10
1
10^−1

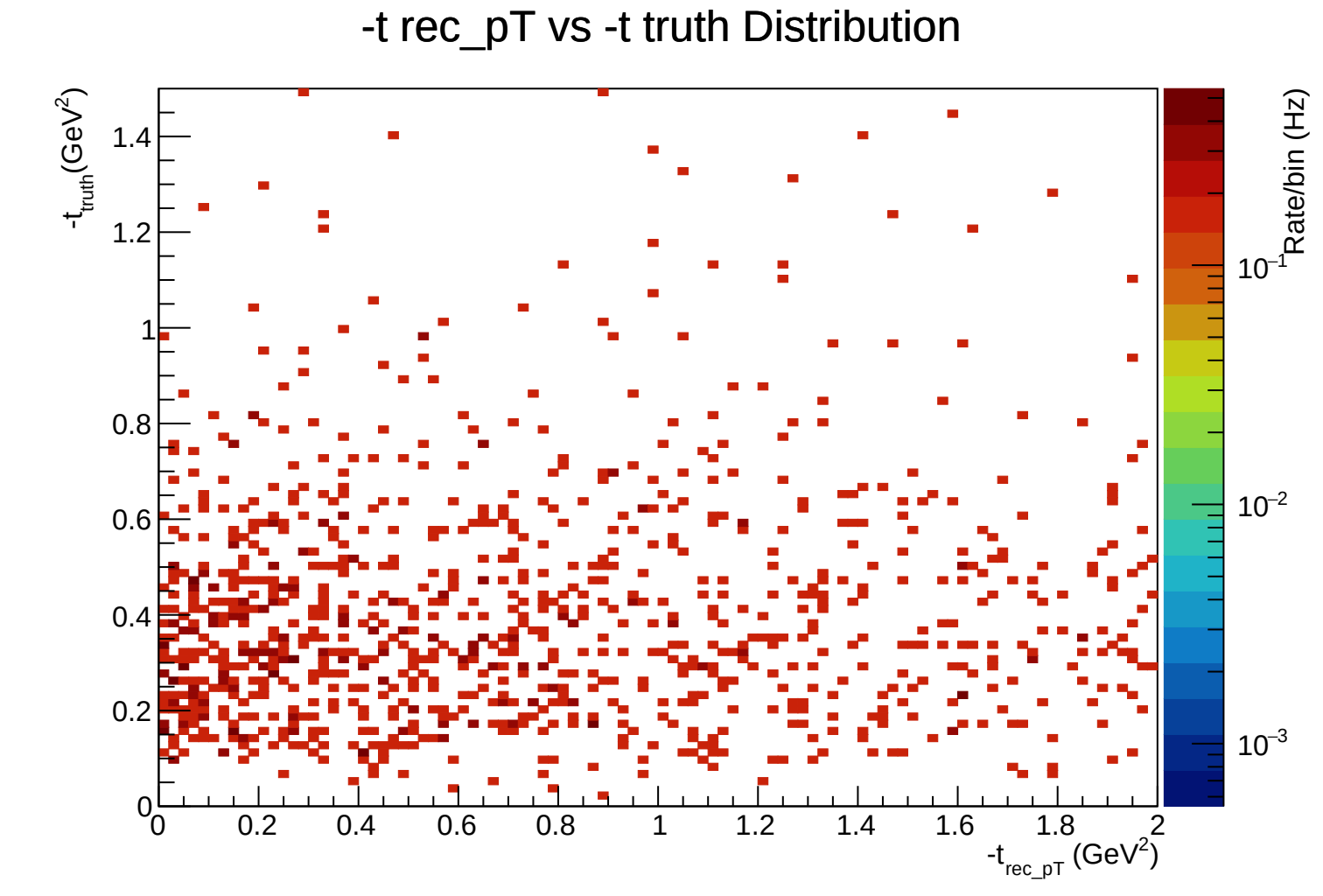

n X vs Y around proton axis at Z = 35 m for all clusters (rec θ* < 4.0 mRad, E > 40 GeV)
y (mm)
200
150
100
50
0
−50
−100
−150
−200
−200
−150
−100
−50
0
50
100
150
200
x (mm)
Rate/bin (Hz)
1
10^{-1}
10^{-2}

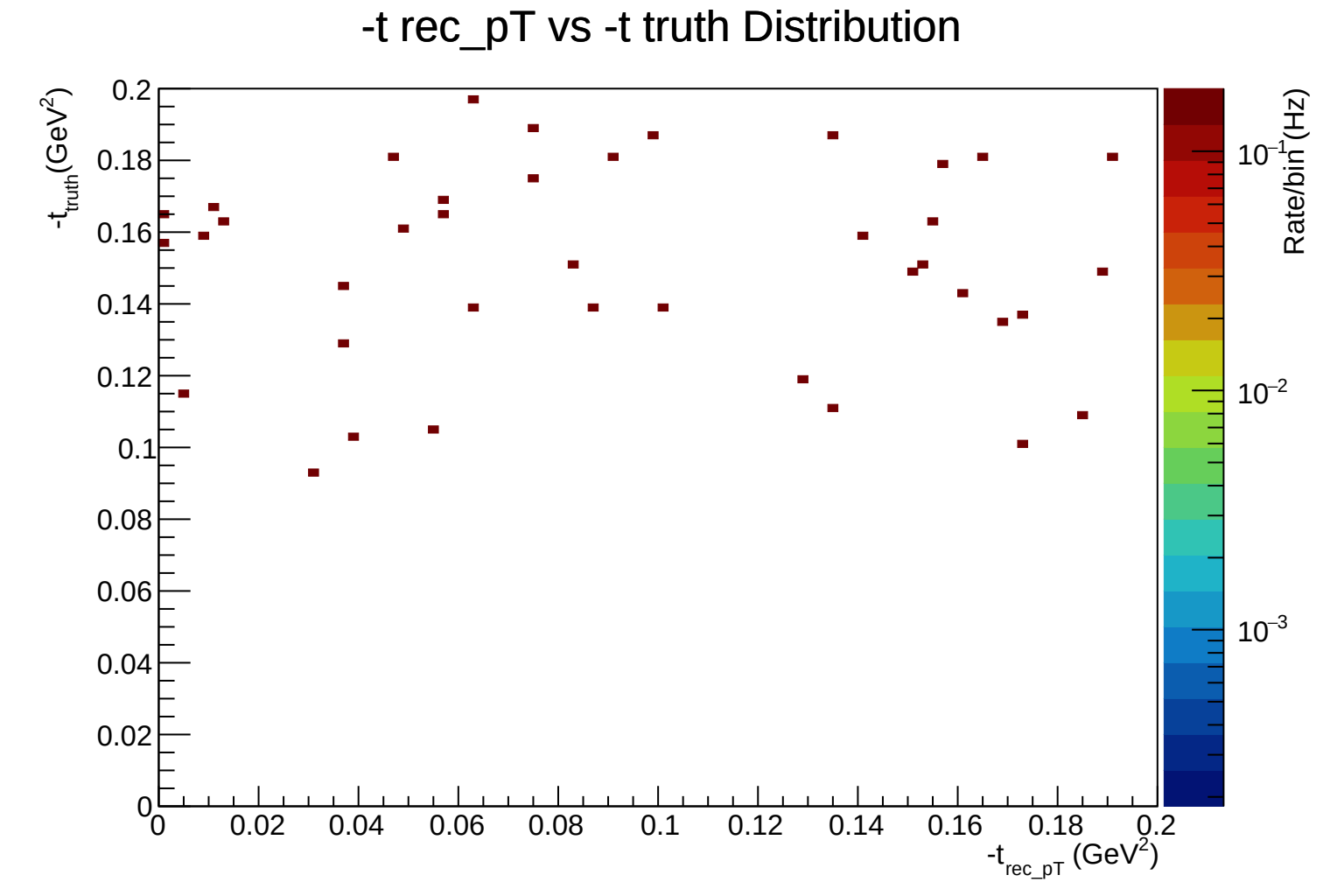

-t rec vs -t truth Distribution
$-t_{truth}(GeV^2)$
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
$-t_{rec}$ (GeV^2)

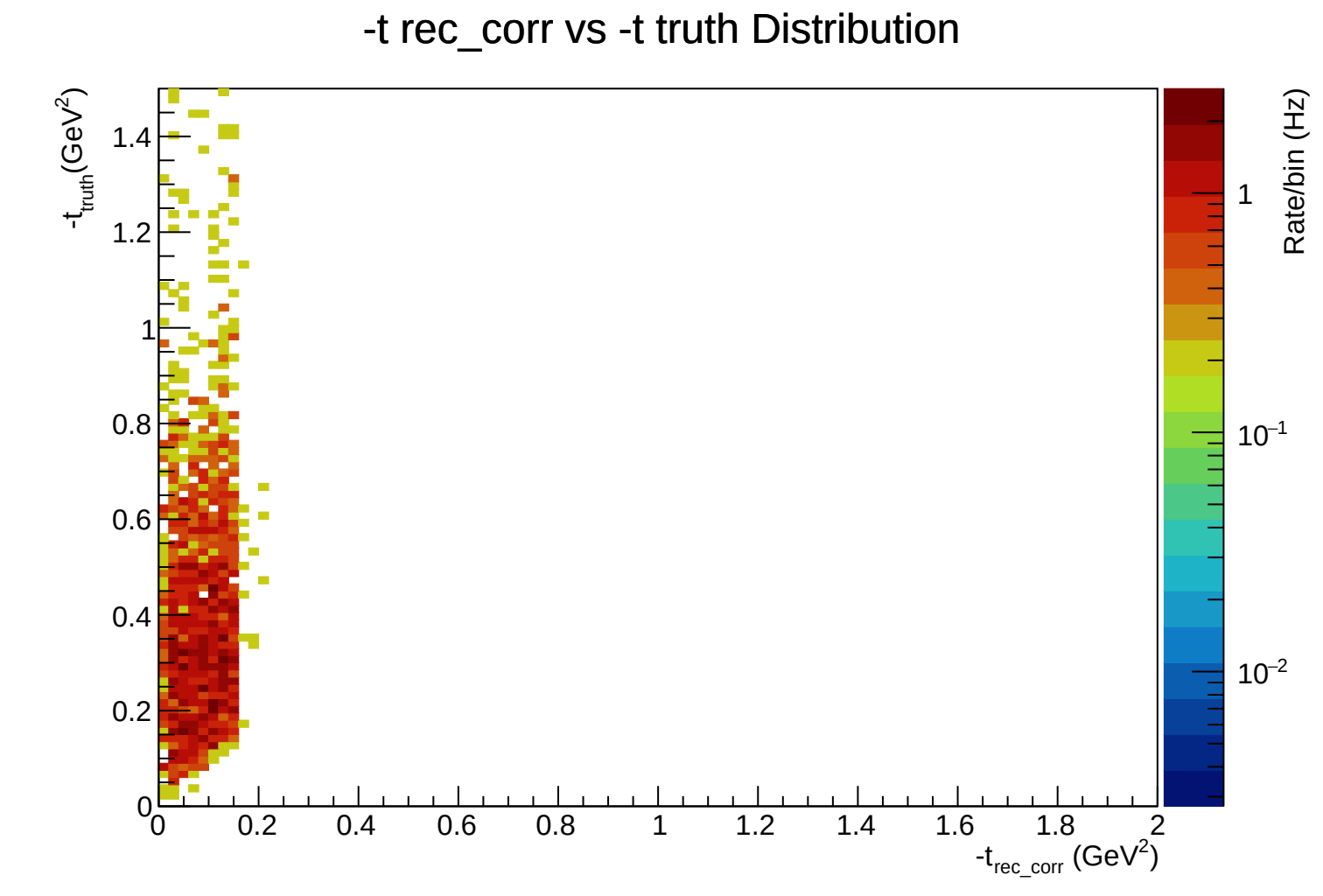

-t rec vs -t truth Distribution
$-t_{truth}(GeV^2)$
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
$-t_{rec}$ (GeV^2)

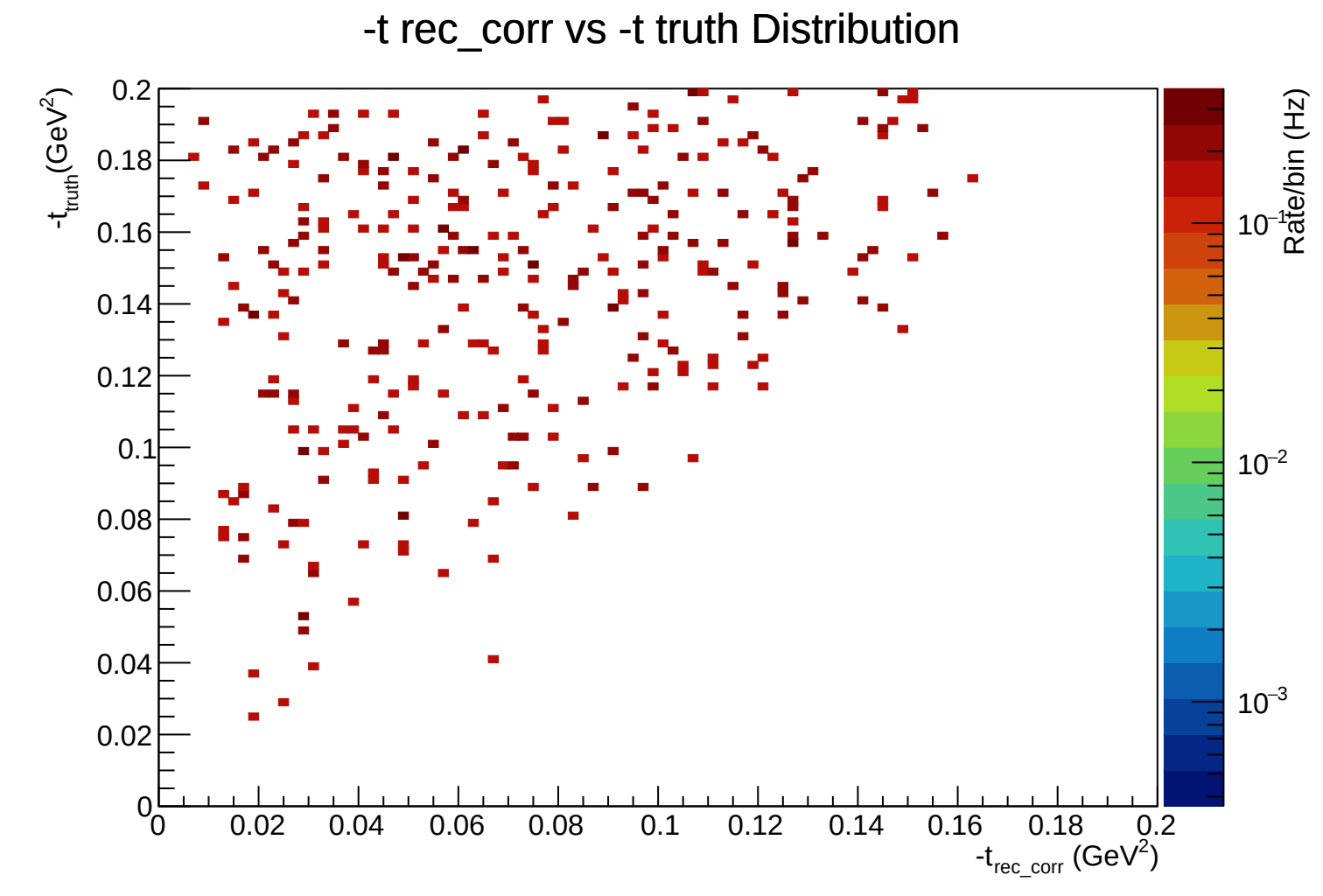

-t alt_rec vs -t truth Distribution
-t_truth (GeV^2)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
-t_alt_rec (GeV^2)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Rate/bin (Hz)
1
10^-1
10^-2

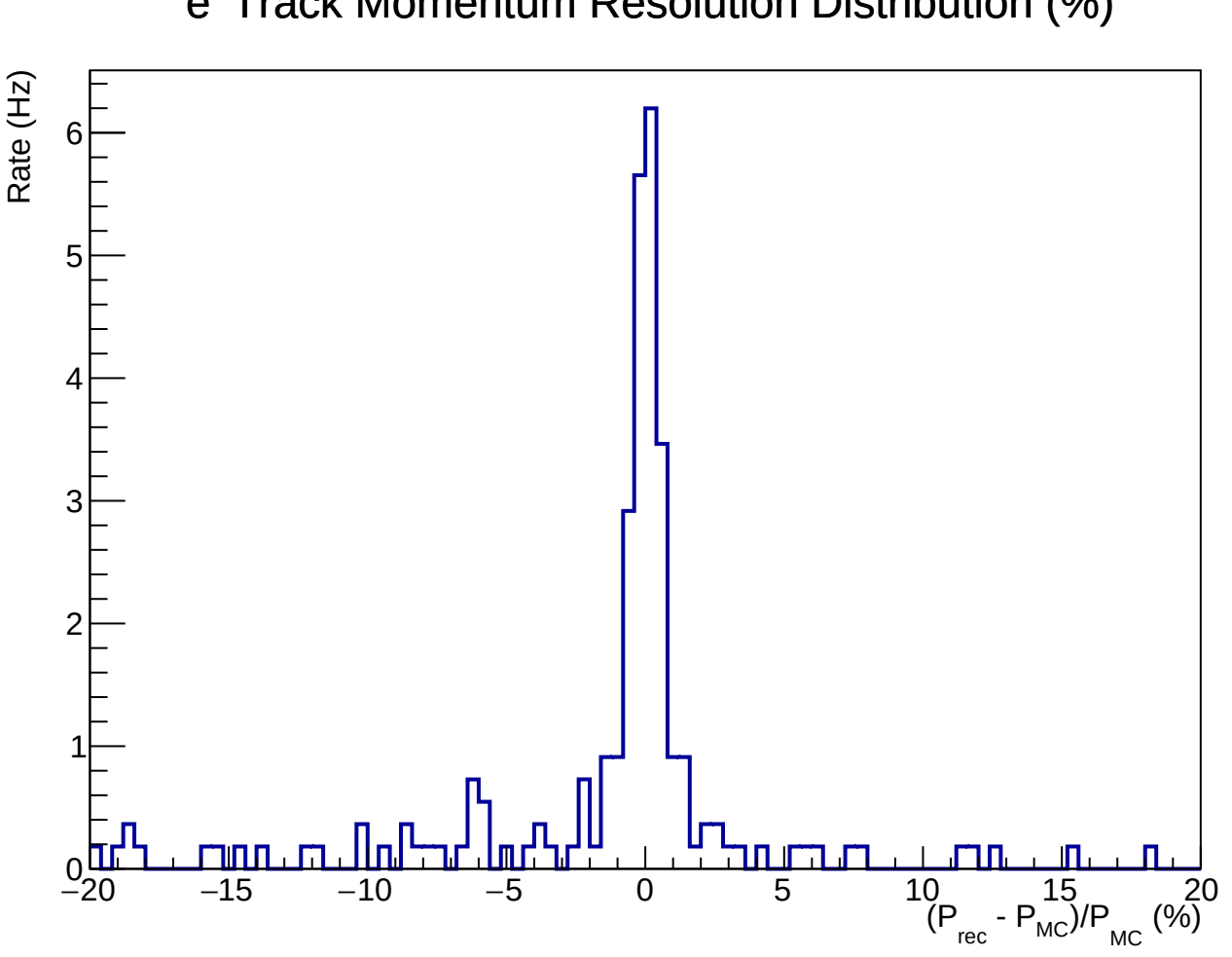

-t alt_rec vs -t truth Distribution
-t_truth (GeV^2)
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
-t_alt_rec (GeV^2)
Rate/bin (Hz)
10^-1
10^-2
10^-3

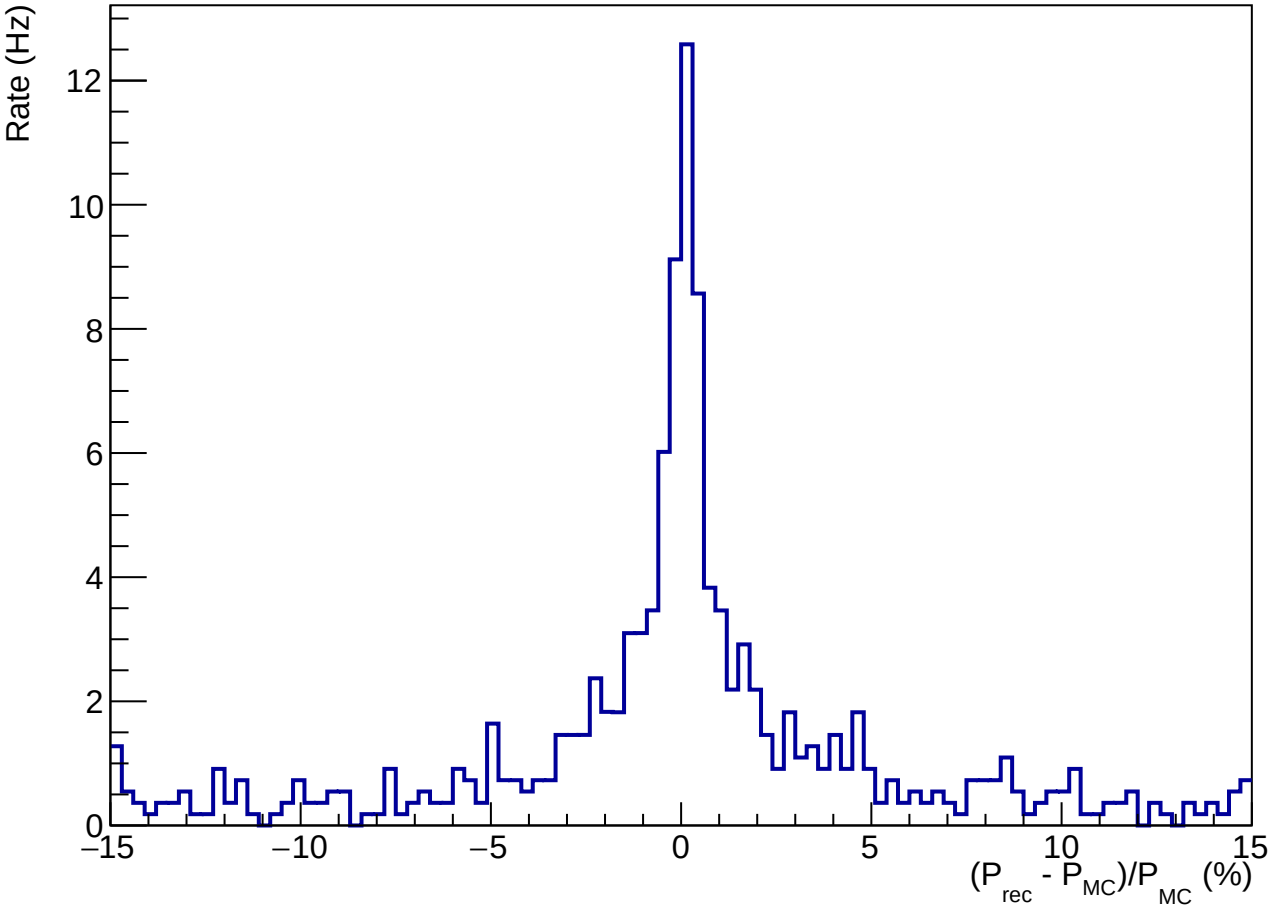

-t rec_pT vs -t truth Distribution
-t_truth (GeV^2)
-t_rec_pT (GeV^2)
Rate/bin (Hz)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
10^-1
10^-2
10^-3

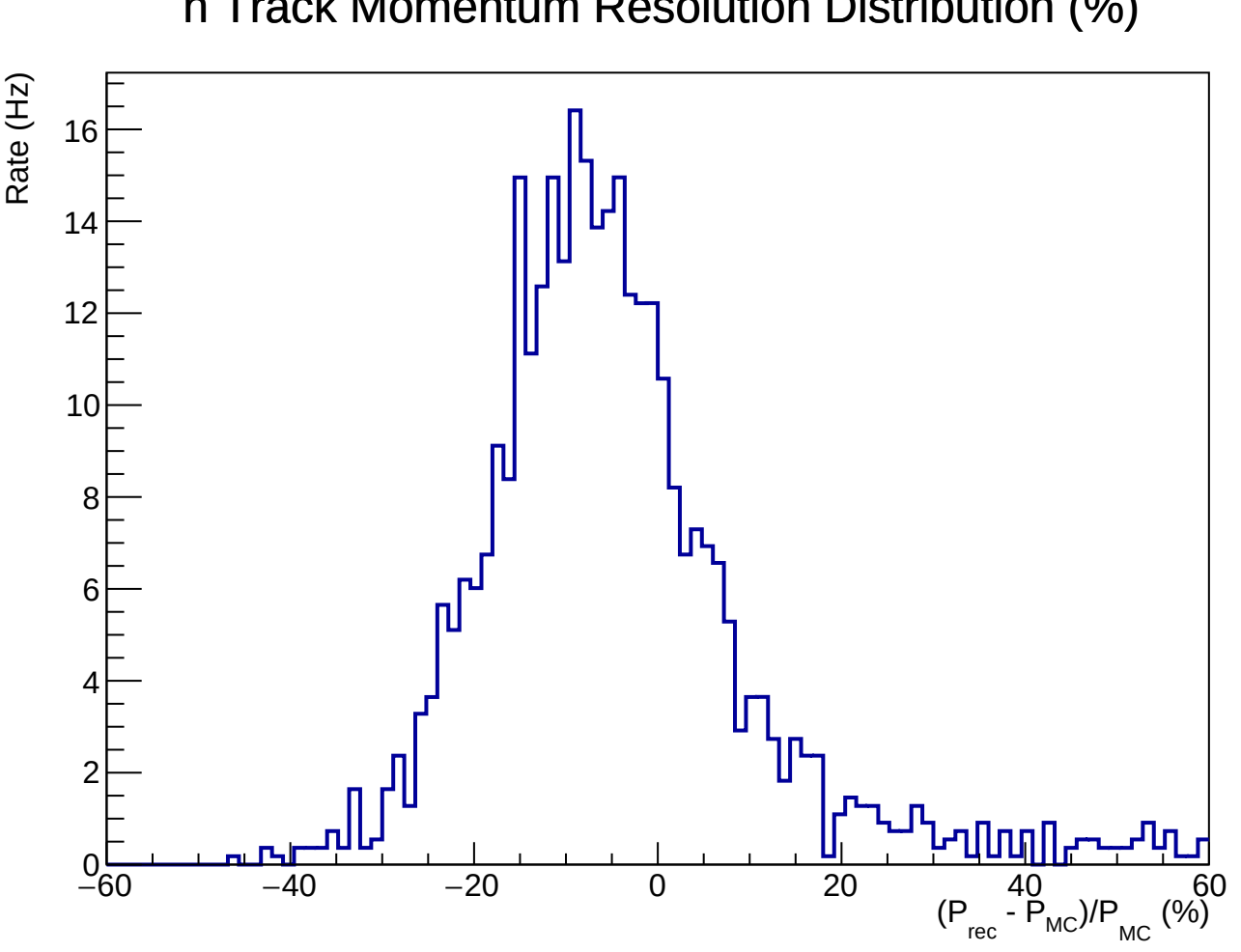

-t rec_pT vs -t truth Distribution
-t_truth (GeV^2)
-t_rec_pT (GeV^2)
Rate/bin (Hz)
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
10^-1
10^-2
10^-3

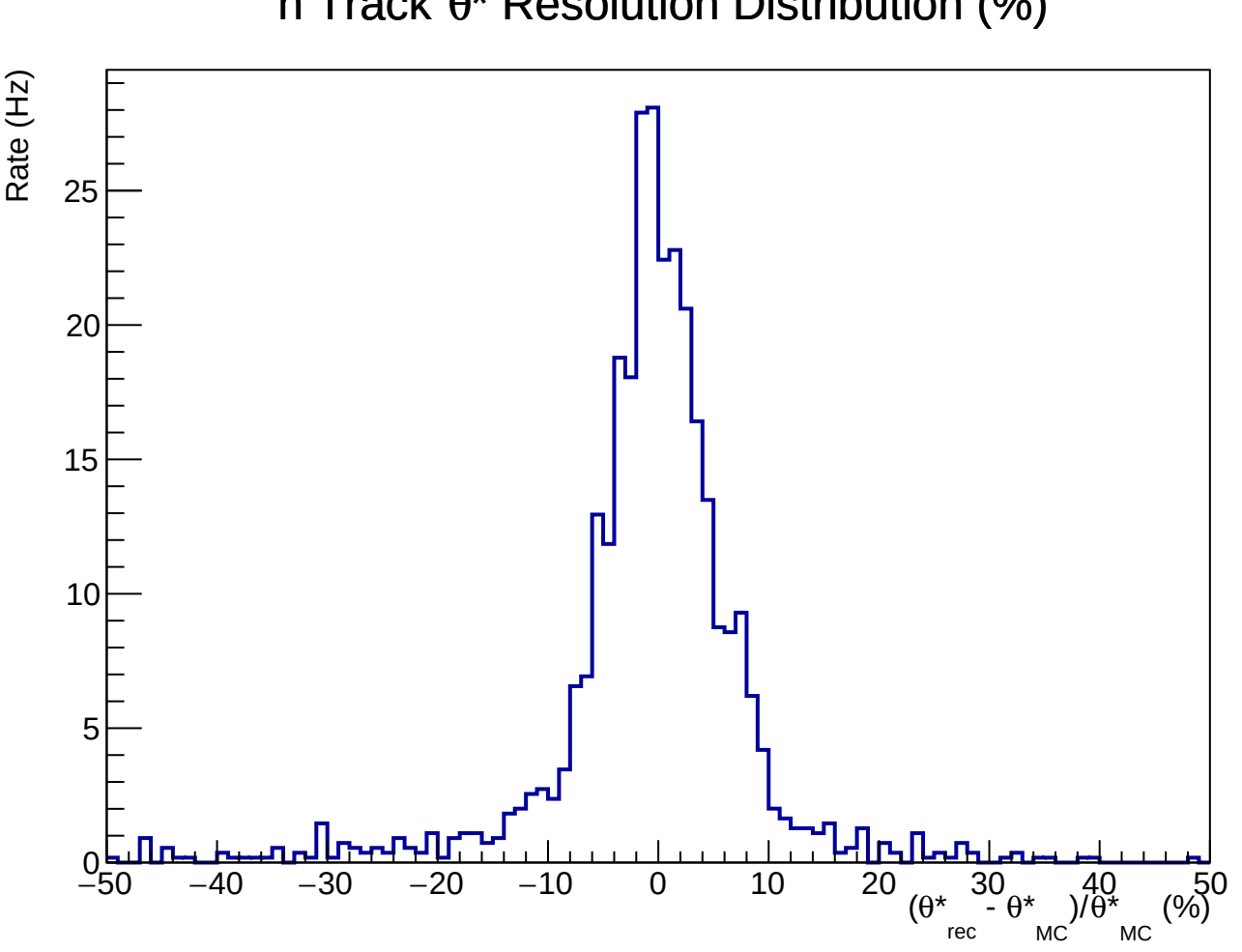

-t rec_corr vs -t truth Distribution
-t_truth (GeV^2)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
-t_rec_corr (GeV^2)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Rate/bin (Hz)
1
10^-1
10^-2

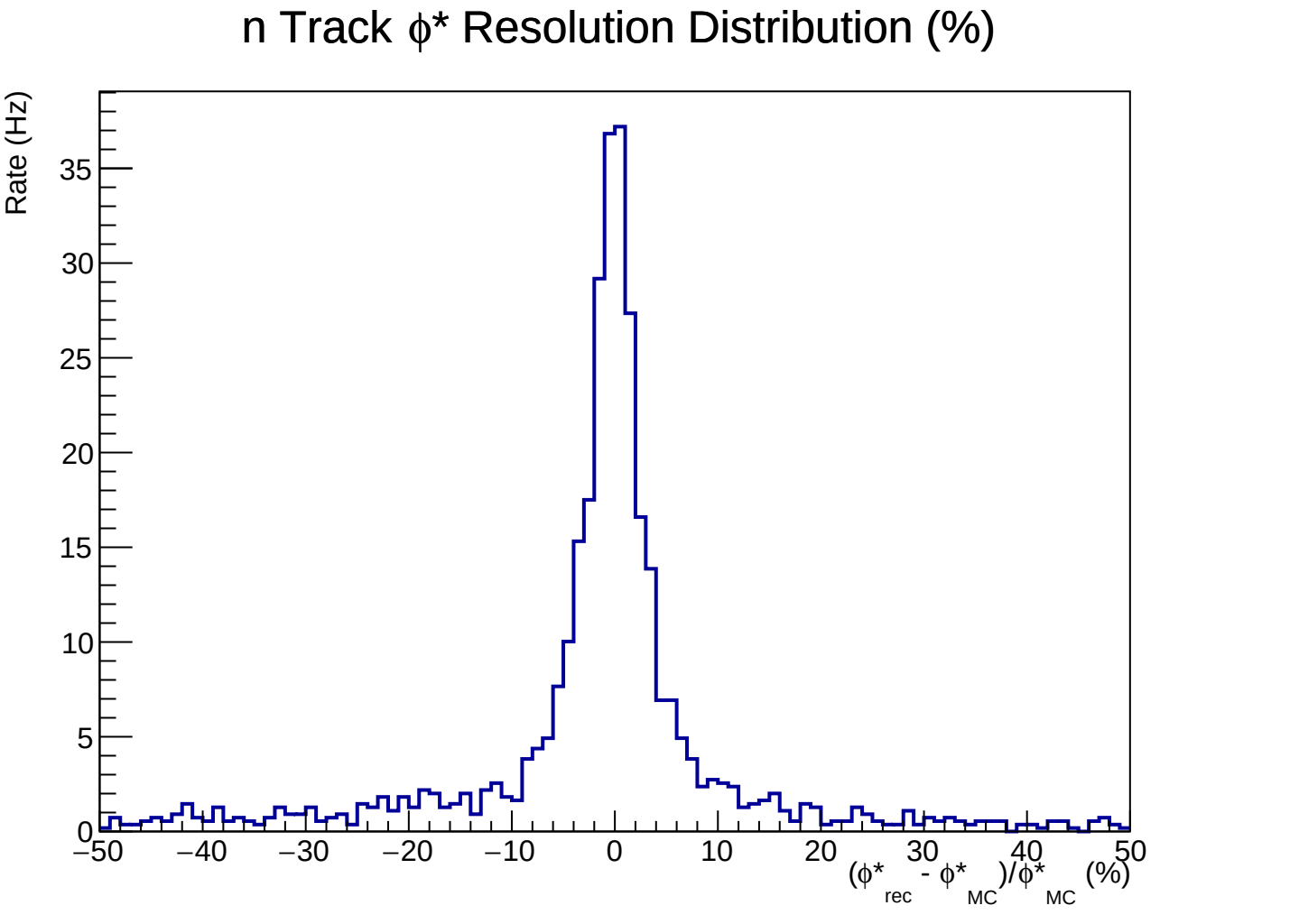

-t rec_corr vs -t truth Distribution
-t_truth (GeV^2)
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
-t_rec_corr (GeV^2)
Rate/bin (Hz)
10^-1
10^-2
10^-3

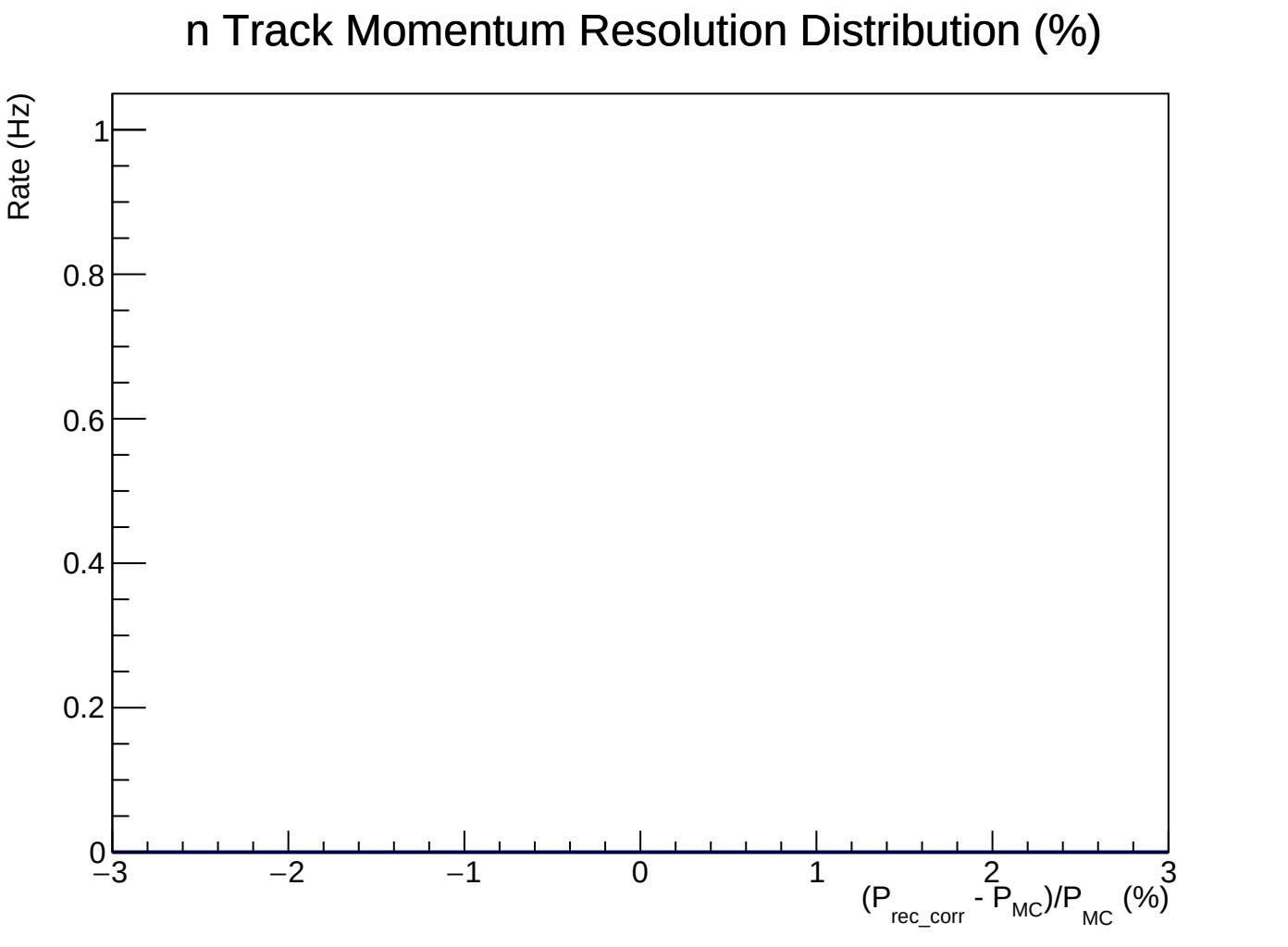

e' Track Momentum Resolution Distribution (%)
Rate (Hz)
0
1
2
3
4
5
6
−20
−15
−10
−5
0
5
10
15
20
(P rec - P MC)/P MC (%)

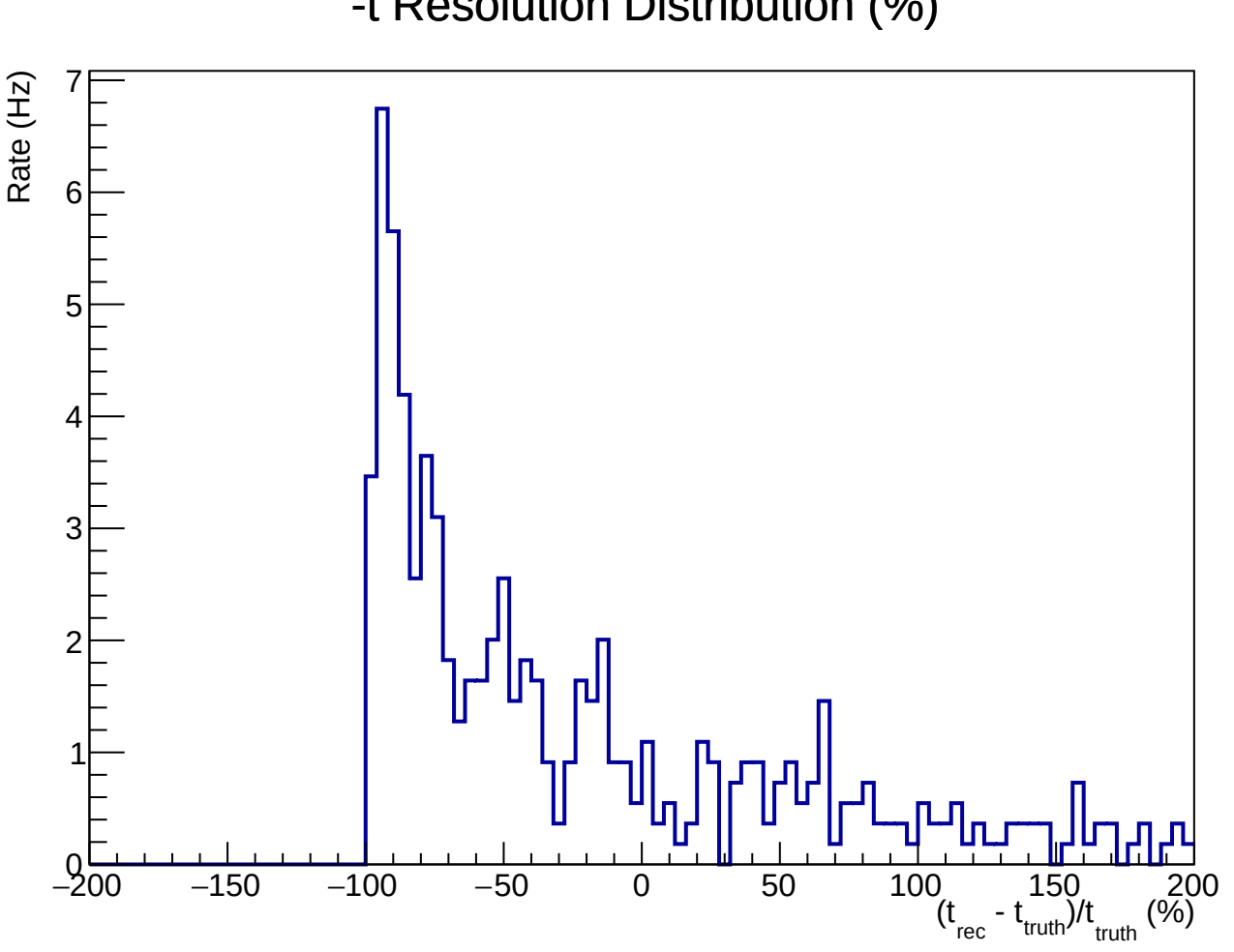

π^+ Track Momentum Resolution Distribution (%)
Rate (Hz)
0
2
4
6
8
10
12
−15
−10
−5
0
5
10
15
$(P_{rec} - P_{MC})/P_{MC}$ (%)

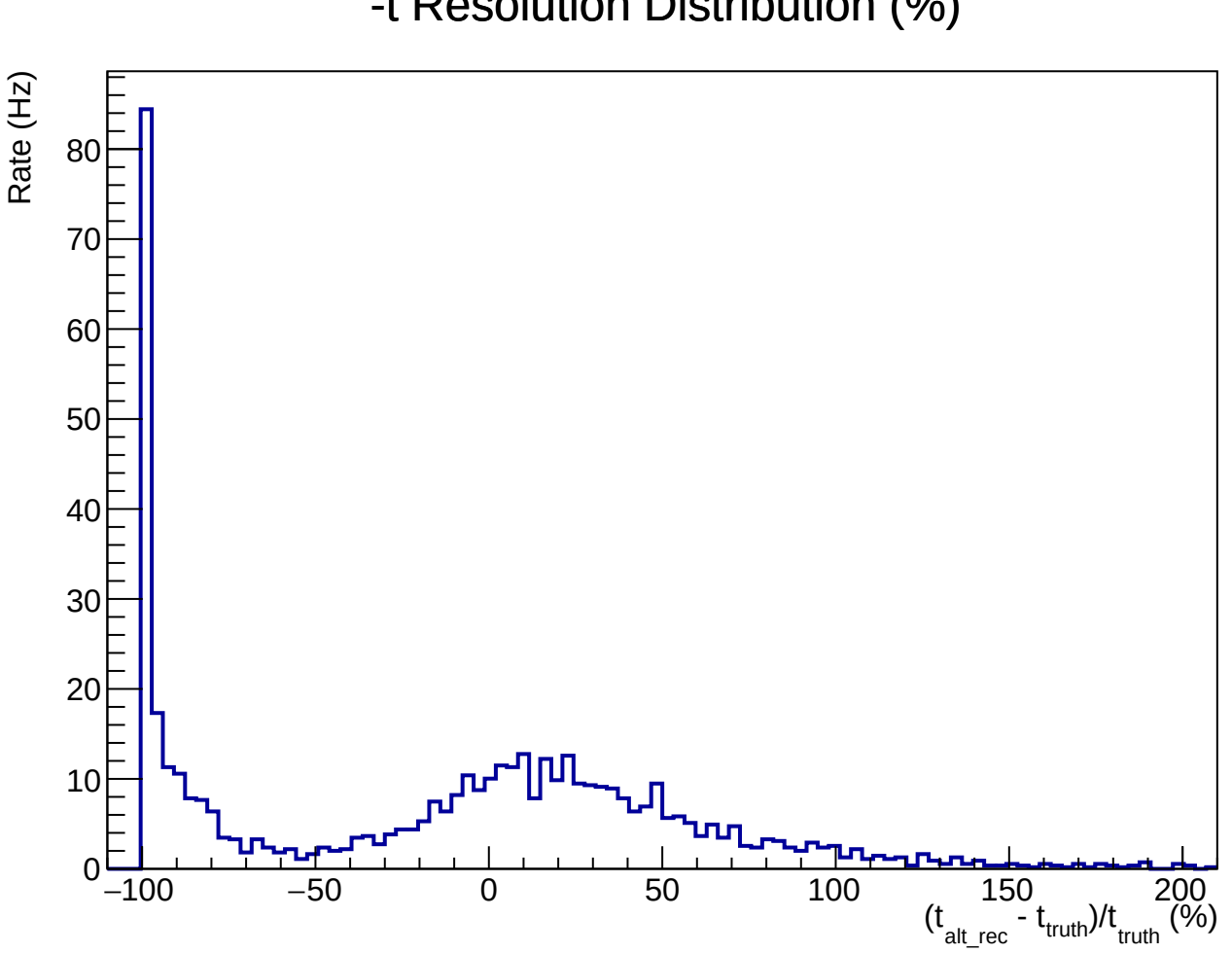

n Track Momentum Resolution Distribution (%)
Rate (Hz)
0
2
4
6
8
10
12
14
16
−60
−40
−20
0
20
40
60
(P rec - P MC)/P MC (%)

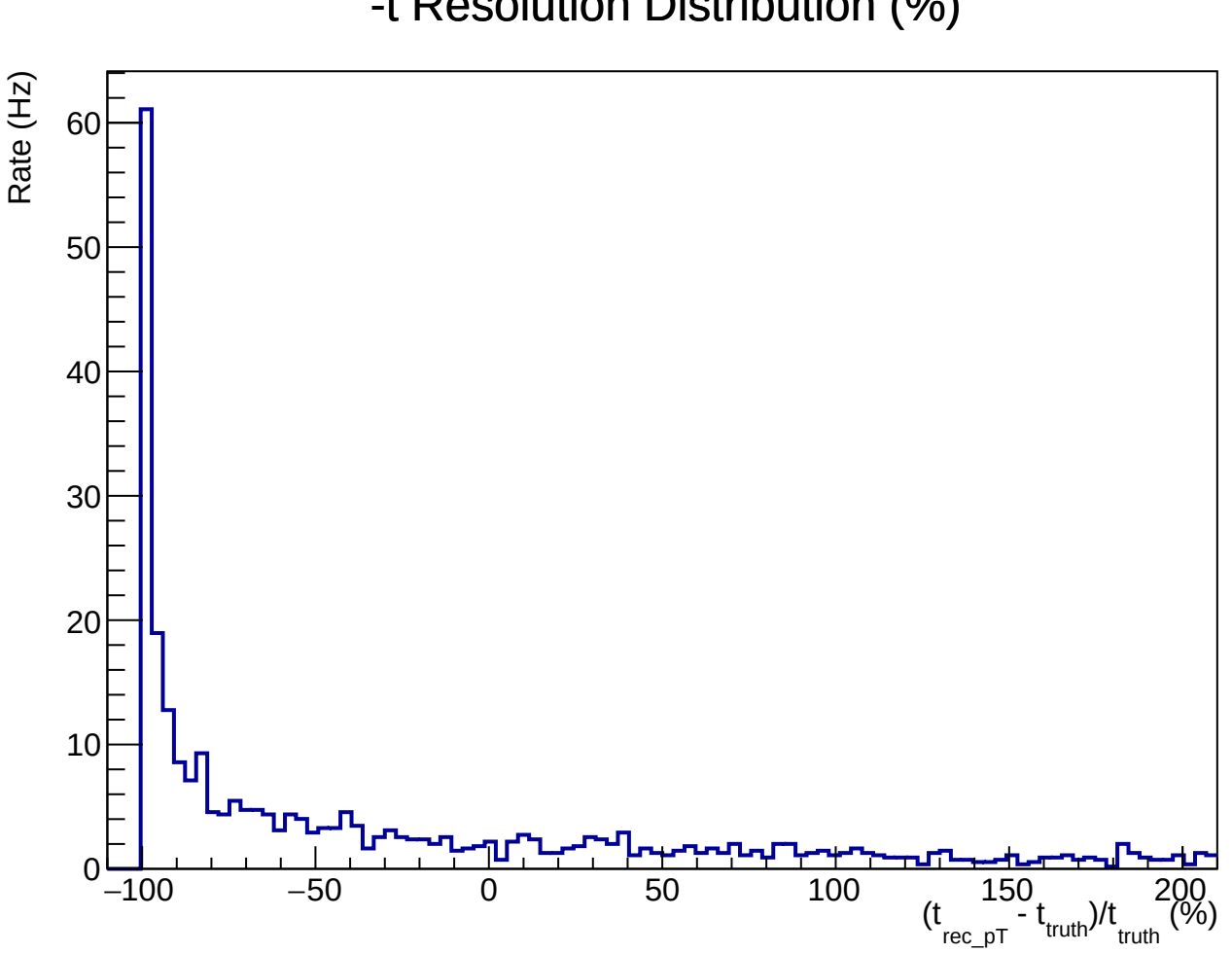

n Track θ* Resolution Distribution (%)
Rate (Hz)
0
5
10
15
20
25
−50
−40
−30
−20
−10
0
10
20
30
40
50
(θ*rec - θ*MC)/θ*MC (%)

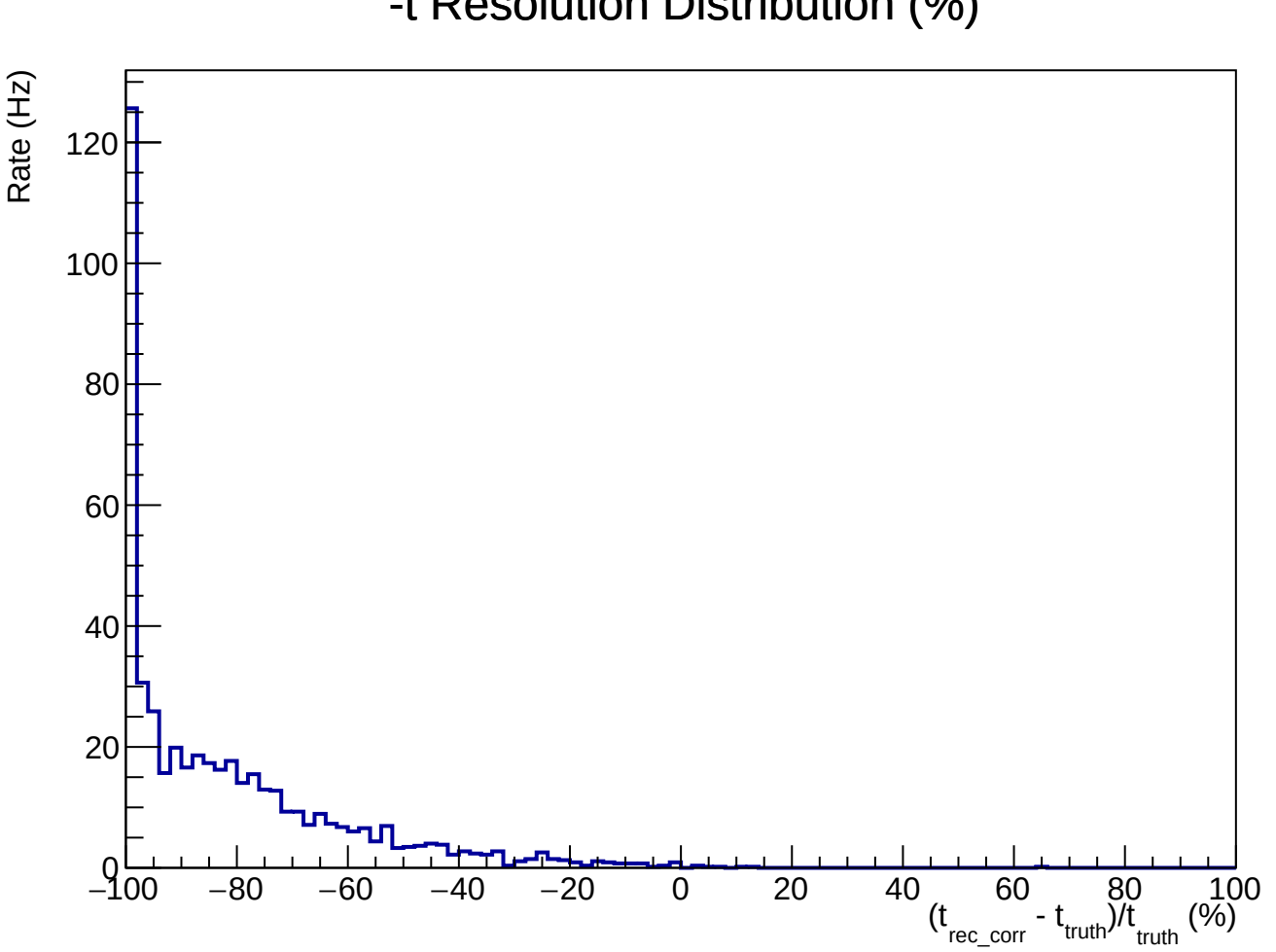

n Track ϕ* Resolution Distribution (%)
Rate (Hz)
0
5
10
15
20
25
30
35
−50
−40
−30
−20
−10
0
10
20
30
40
50
(ϕ*rec - ϕ*MC)/ϕ*MC (%)

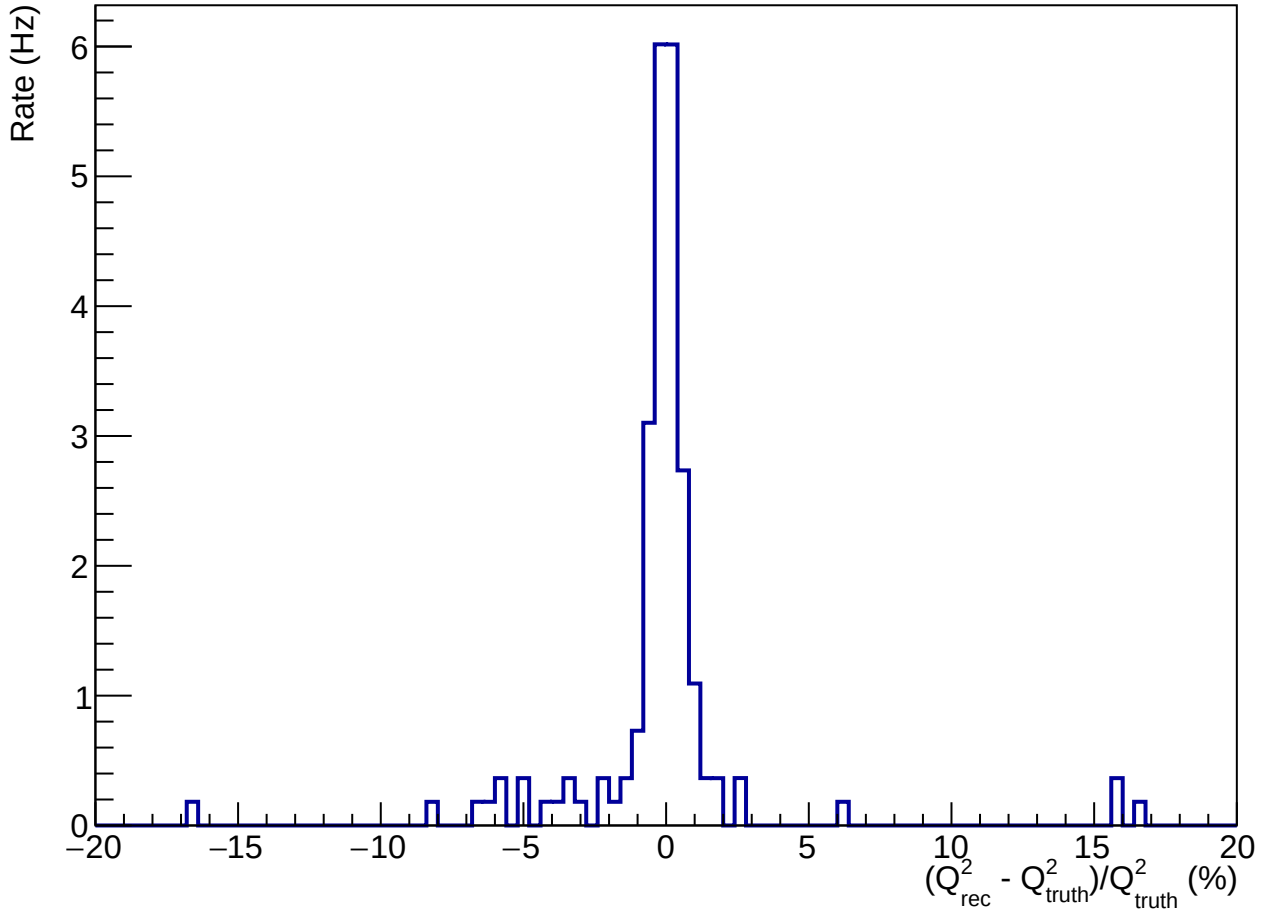

n Track Momentum Resolution Distribution (%)
Rate (Hz)
1
0.8
0.6
0.4
0.2
0
−3
−2
−1
0
1
2
3
(P rec_corr - P MC)/P MC (%)

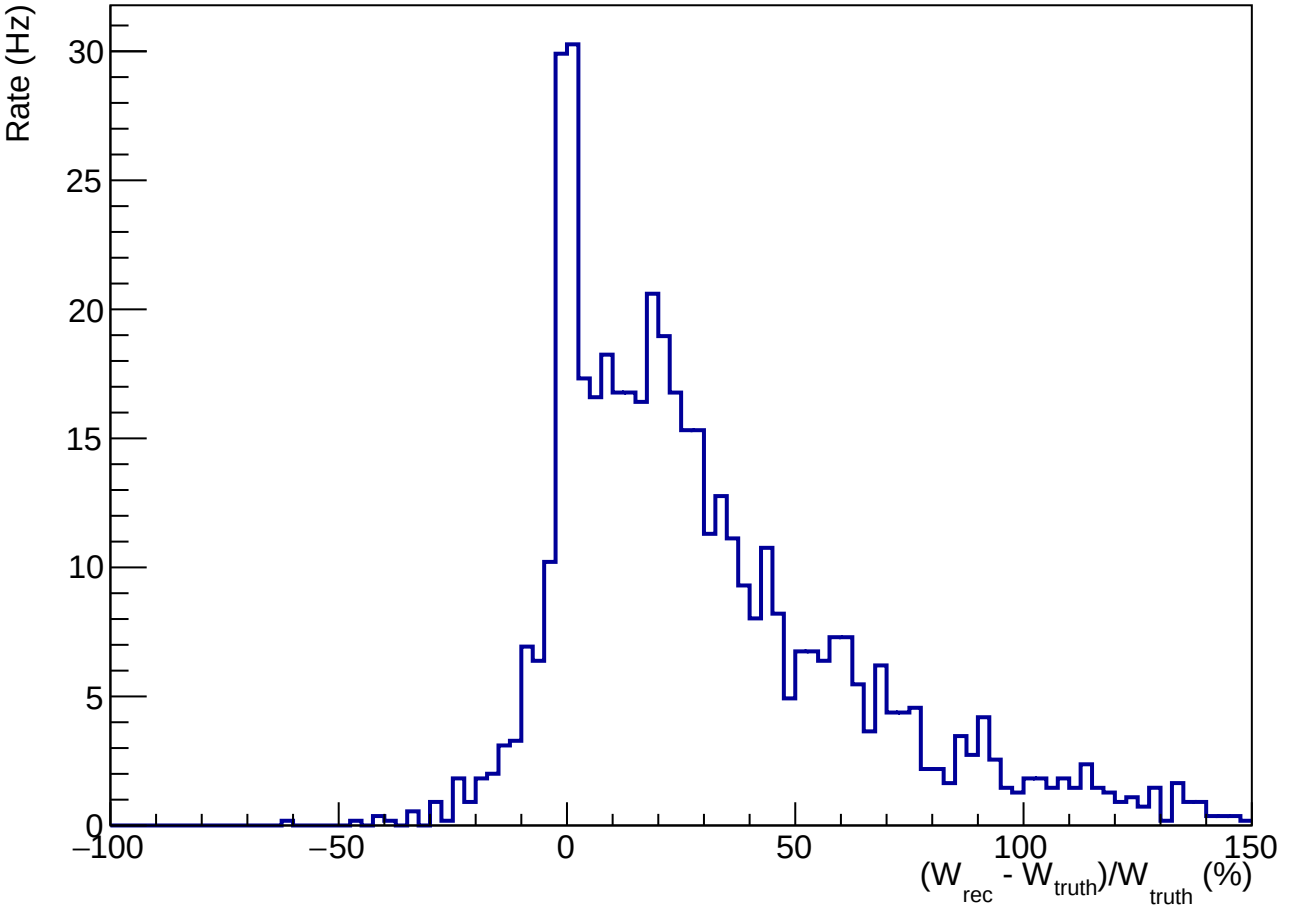

-t Resolution Distribution (%)
Rate (Hz)
0
1
2
3
4
5
6
7
−200
−150
−100
−50
0
50
100
150
200
(t_rec - t_truth)/t_truth (%)

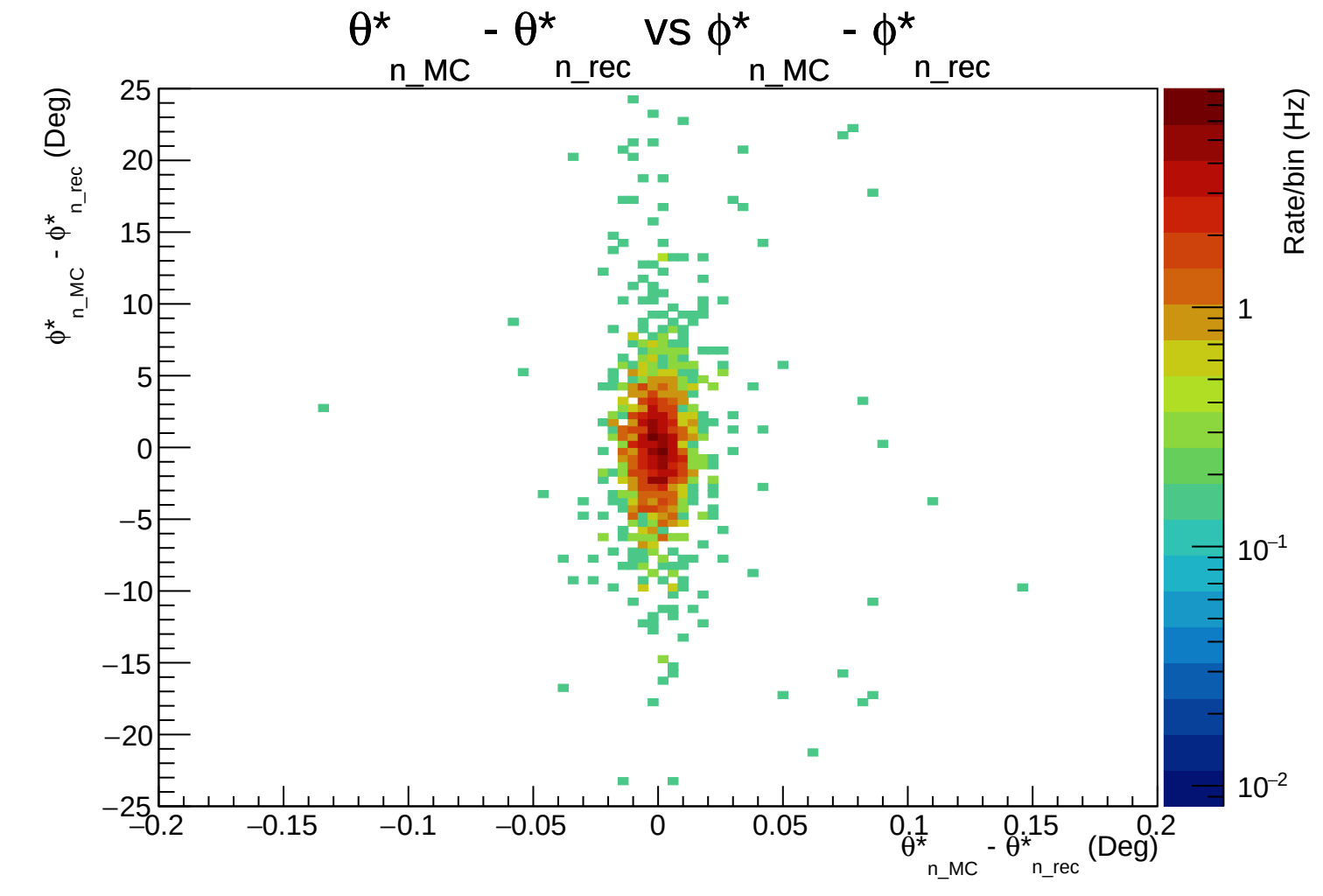

-t Resolution Distribution (%)
Rate (Hz)
0
10
20
30
40
50
60
70
80
−100
−50
0
50
100
150
200
(t alt_rec - t truth)/t truth (%)

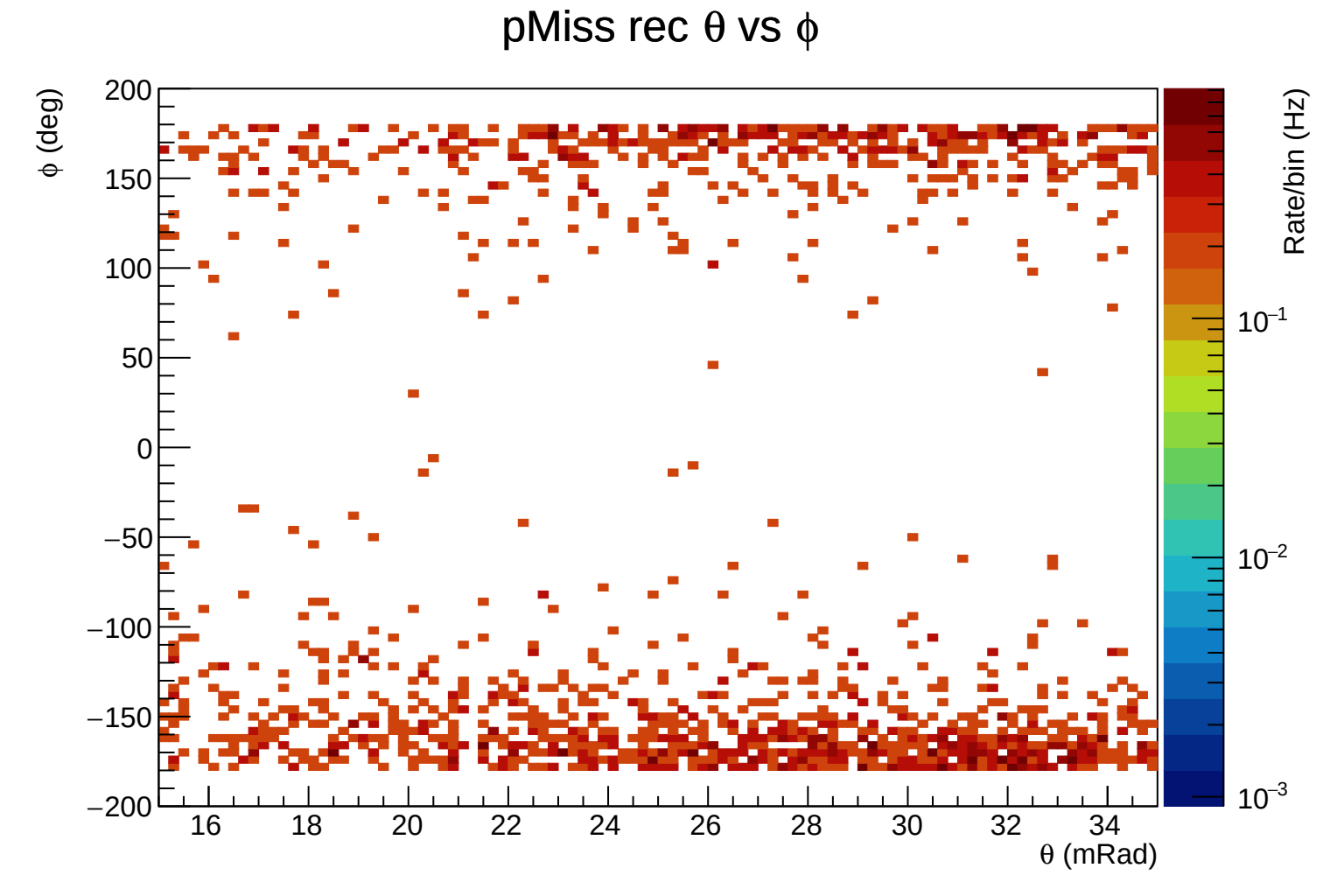

-t Resolution Distribution (%)
Rate (Hz)
0
10
20
30
40
50
60
−100
−50
0
50
100
150
200
(t rec_pT - t truth)/t truth (%)

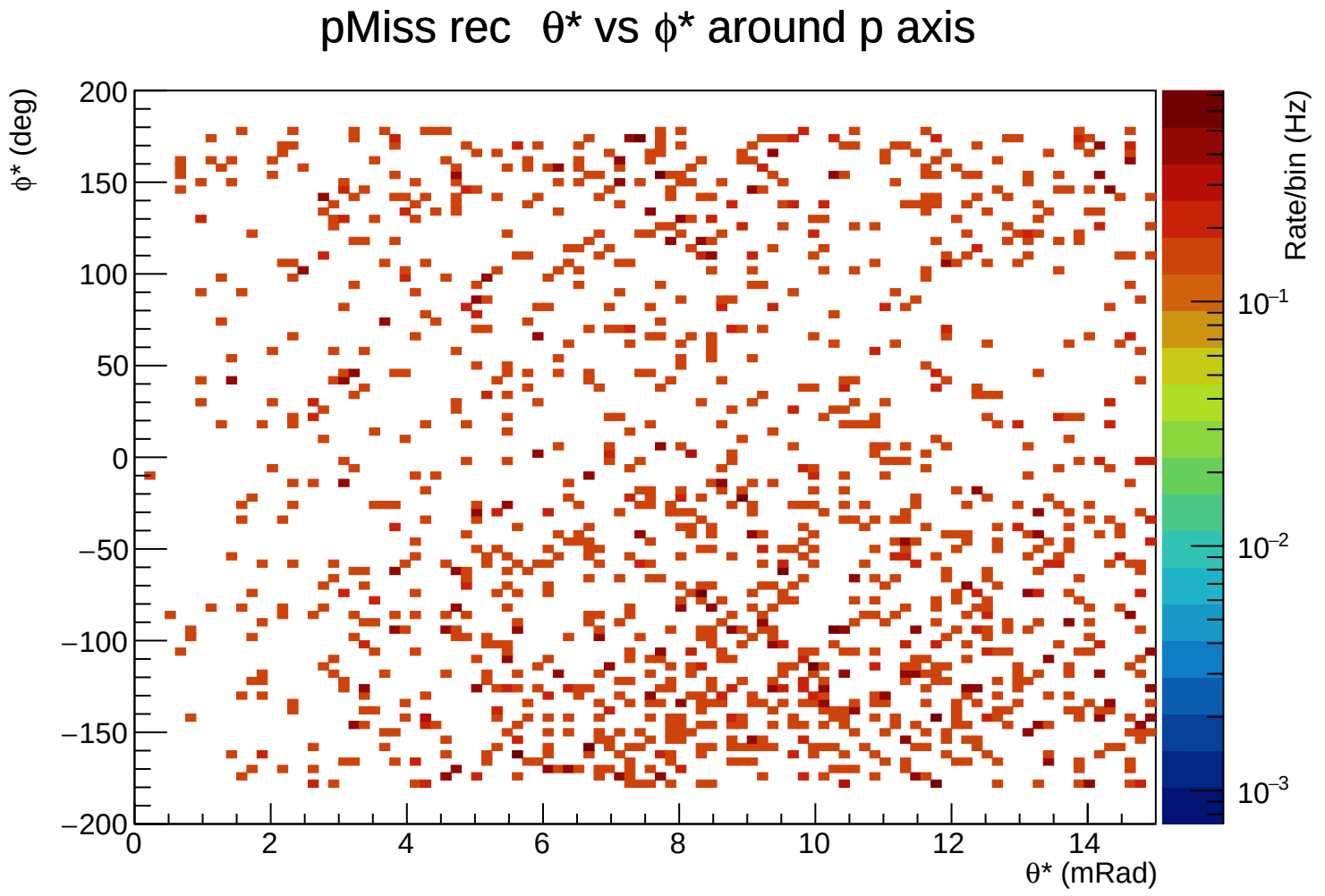

-t Resolution Distribution (%)
Rate (Hz)
120
100
80
60
40
20
0
−100
−80
−60
−40
−20
0
20
40
60
80
100
(t rec_corr - t truth)/t truth (%)

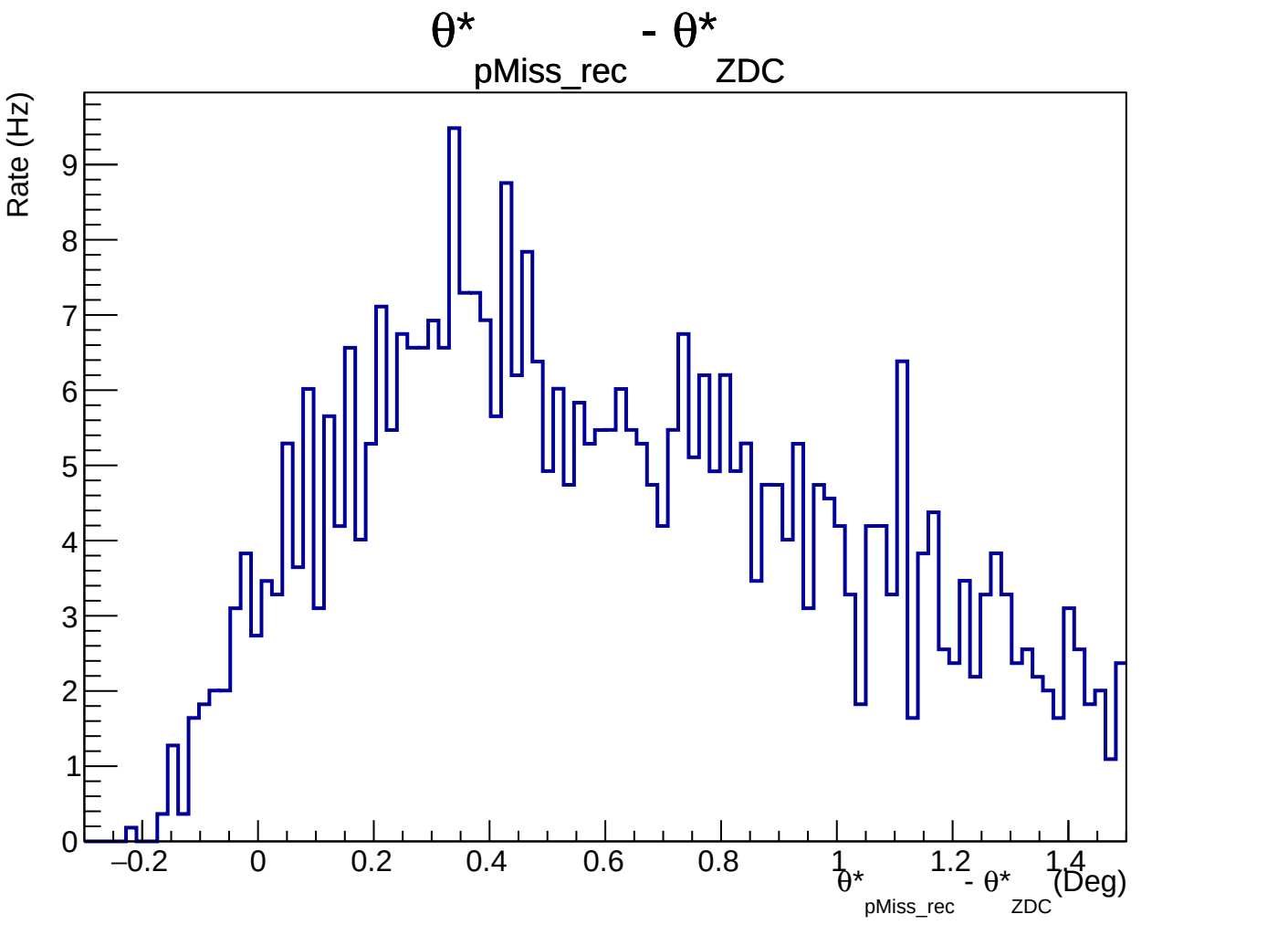

Q^2 Resolution Distribution (%)
Rate (Hz)
0
1
2
3
4
5
6
−20
−15
−10
−5
0
5
10
15
20
$(Q^2_{rec} - Q^2_{truth})/Q^2_{truth}$ (%)

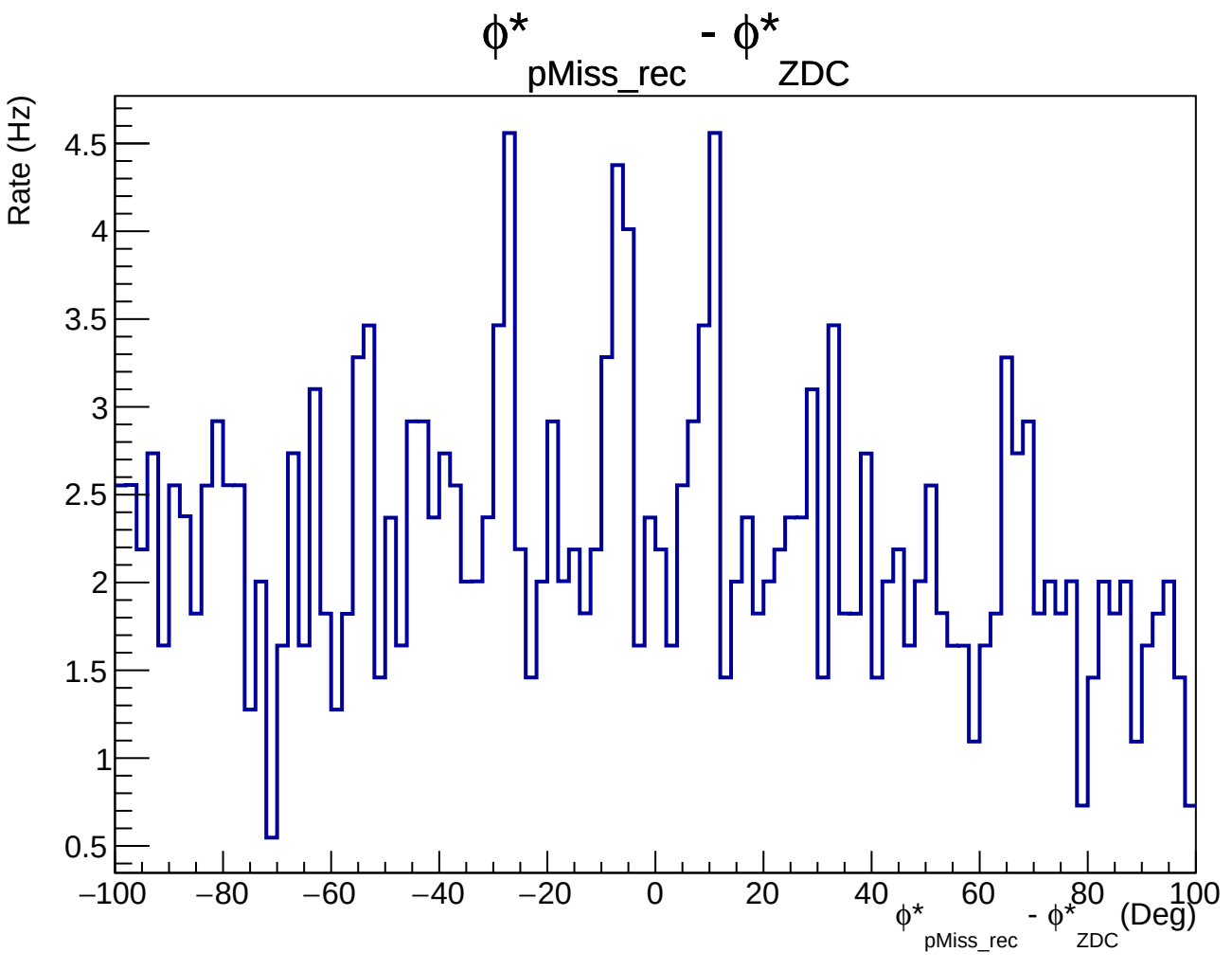

W Resolution Distribution (%)
Rate (Hz)
30
25
20
15
10
5
0
−100
−50
0
50
100
150
(W rec - W truth)/W truth (%)

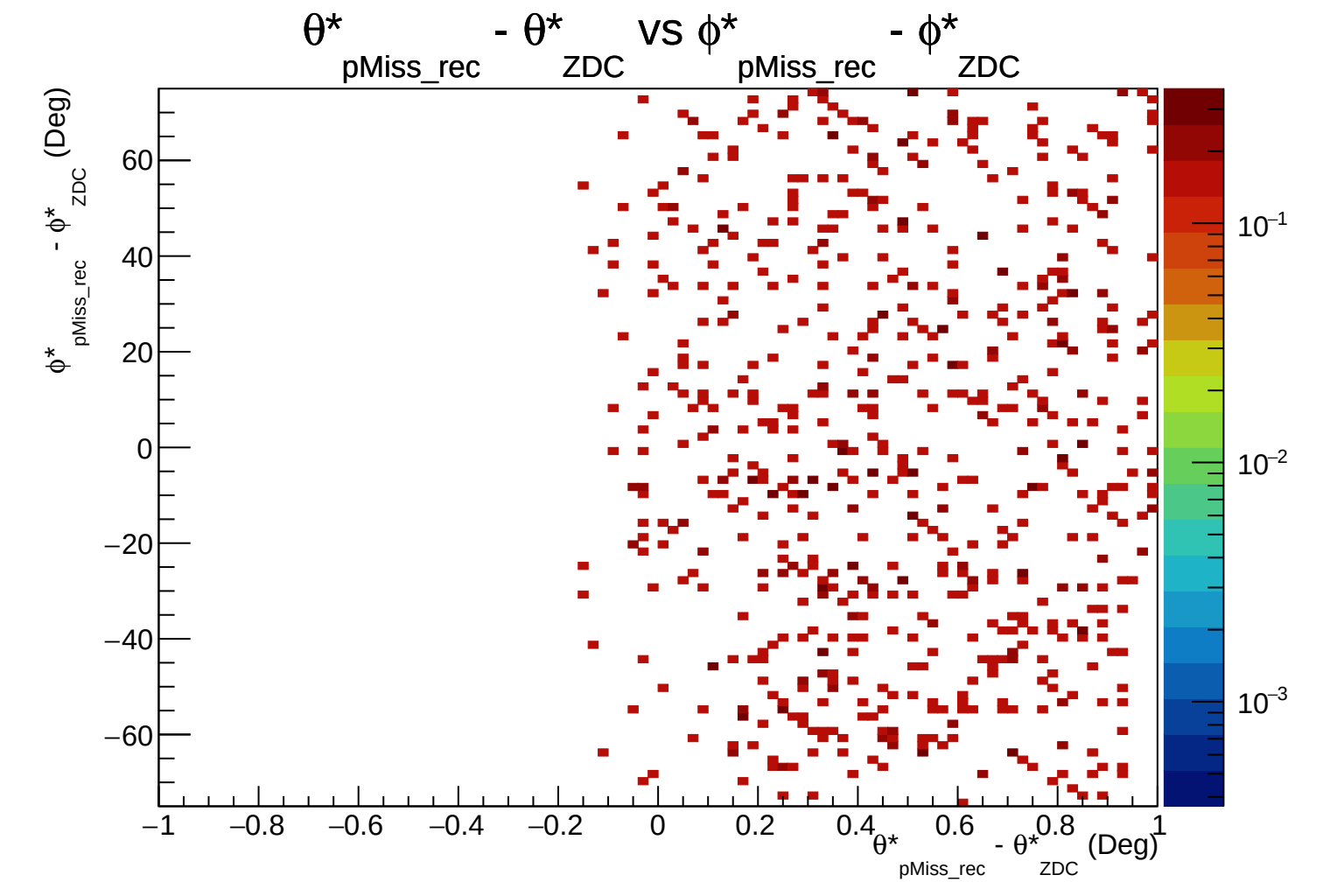

θ* n_MC - θ* n_rec vs ϕ* n_MC - ϕ* n_rec
ϕ* n_MC - ϕ* n_rec (Deg)
θ* n_MC - θ* n_rec (Deg)
Rate/bin (Hz)
25
20
15
10
5
0
−5
−10
−15
−20
−25
−0.2
−0.15
−0.1
−0.05
0
0.05
0.1
0.15
0.2
1
10−1
10−2

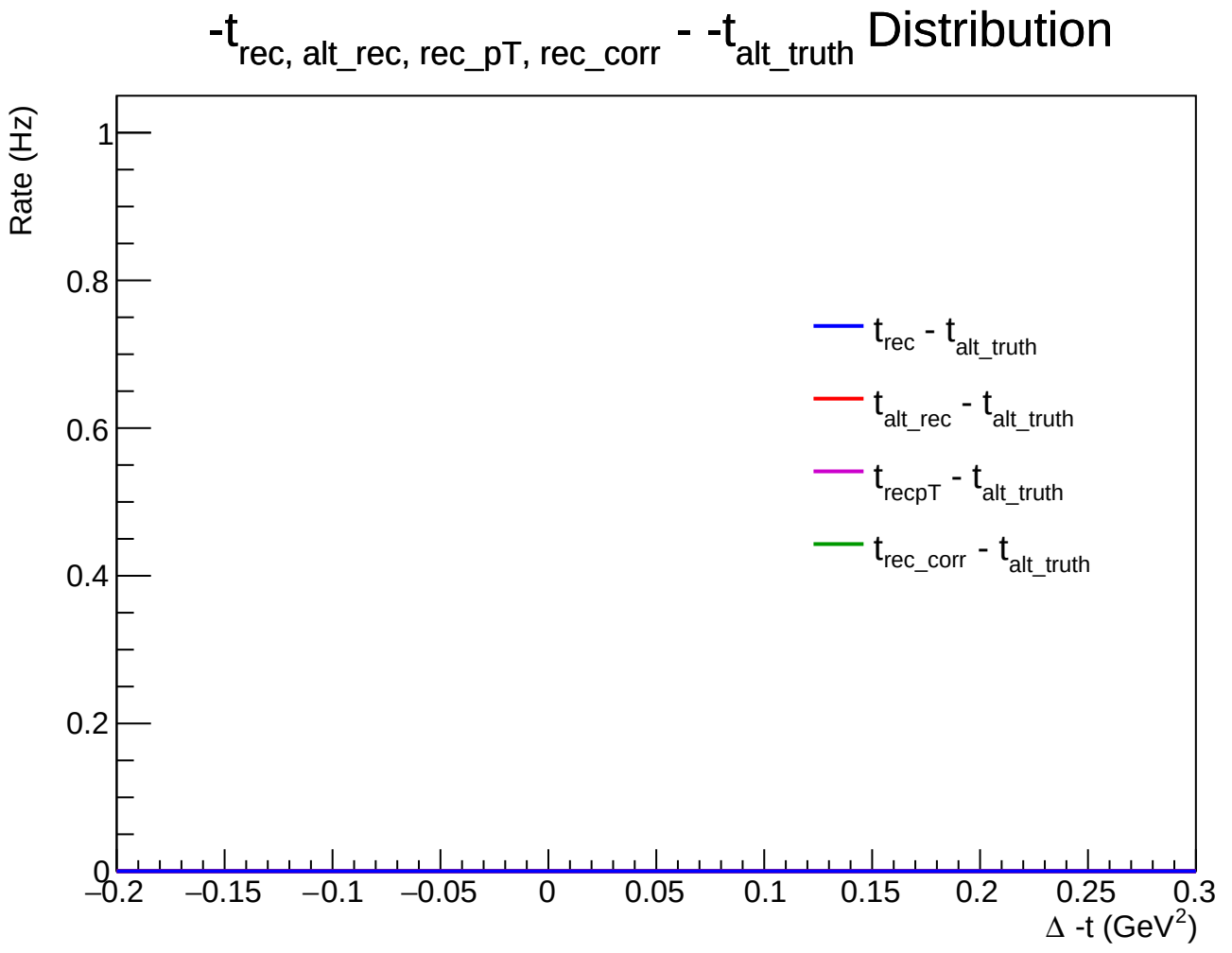

pMiss rec θ vs ϕ
ϕ (deg)
200
150
100
50
0
−50
−100
−150
−200
16
18
20
22
24
26
28
30
32
34
θ (mRad)
Rate/bin (Hz)
10^{-1}
10^{-2}
10^{-3}

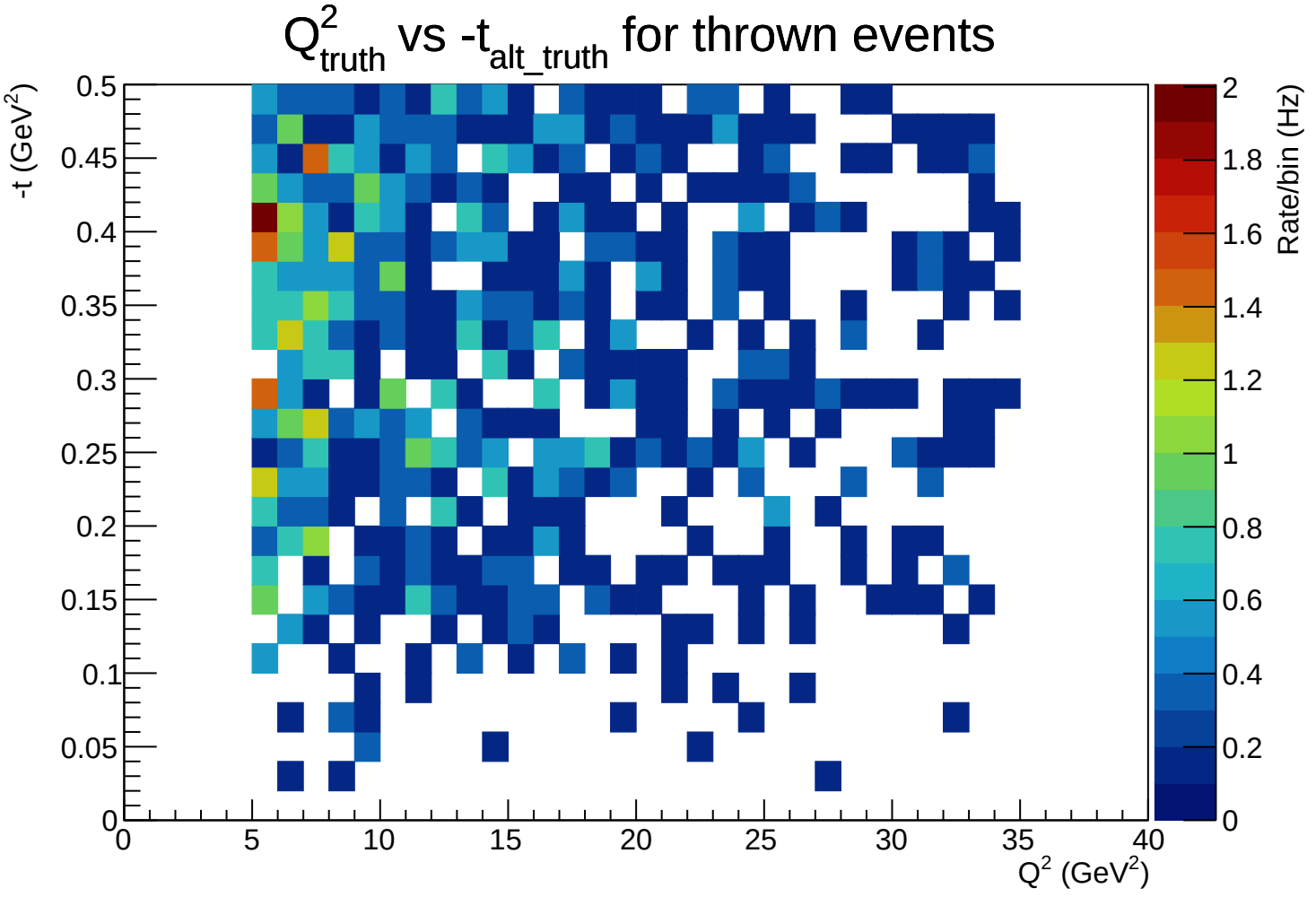

pMiss rec θ* vs ϕ* around p axis
ϕ* (deg)
200
150
100
50
0
−50
−100
−150
−200
0
2
4
6
8
10
12
14
θ* (mRad)
Rate/bin (Hz)
10^{-1}
10^{-2}
10^{-3}

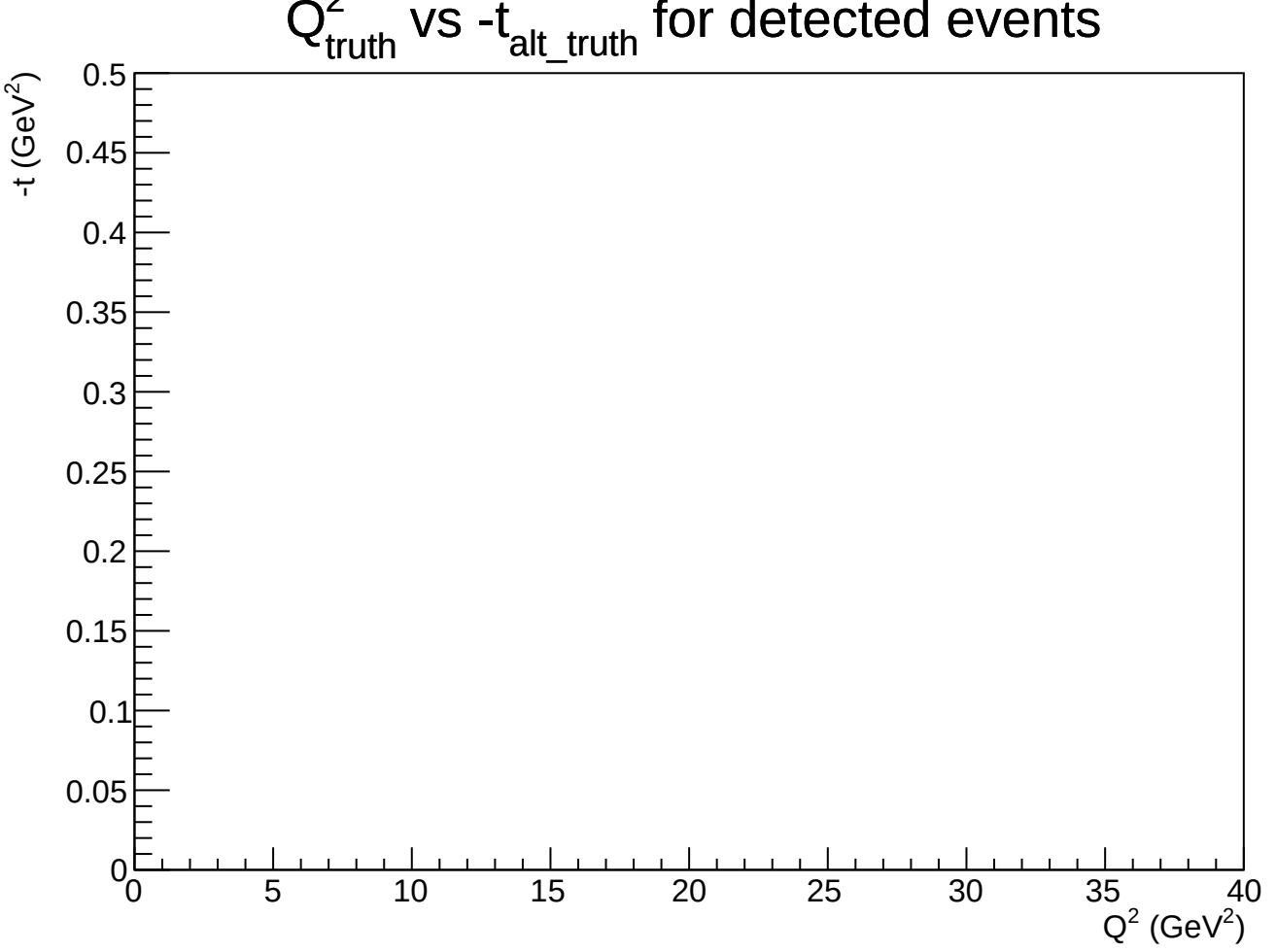

θ* - θ*
pMiss_rec ZDC
Rate (Hz)
0
1
2
3
4
5
6
7
8
9
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
θ* - θ* (Deg)
pMiss_rec ZDC

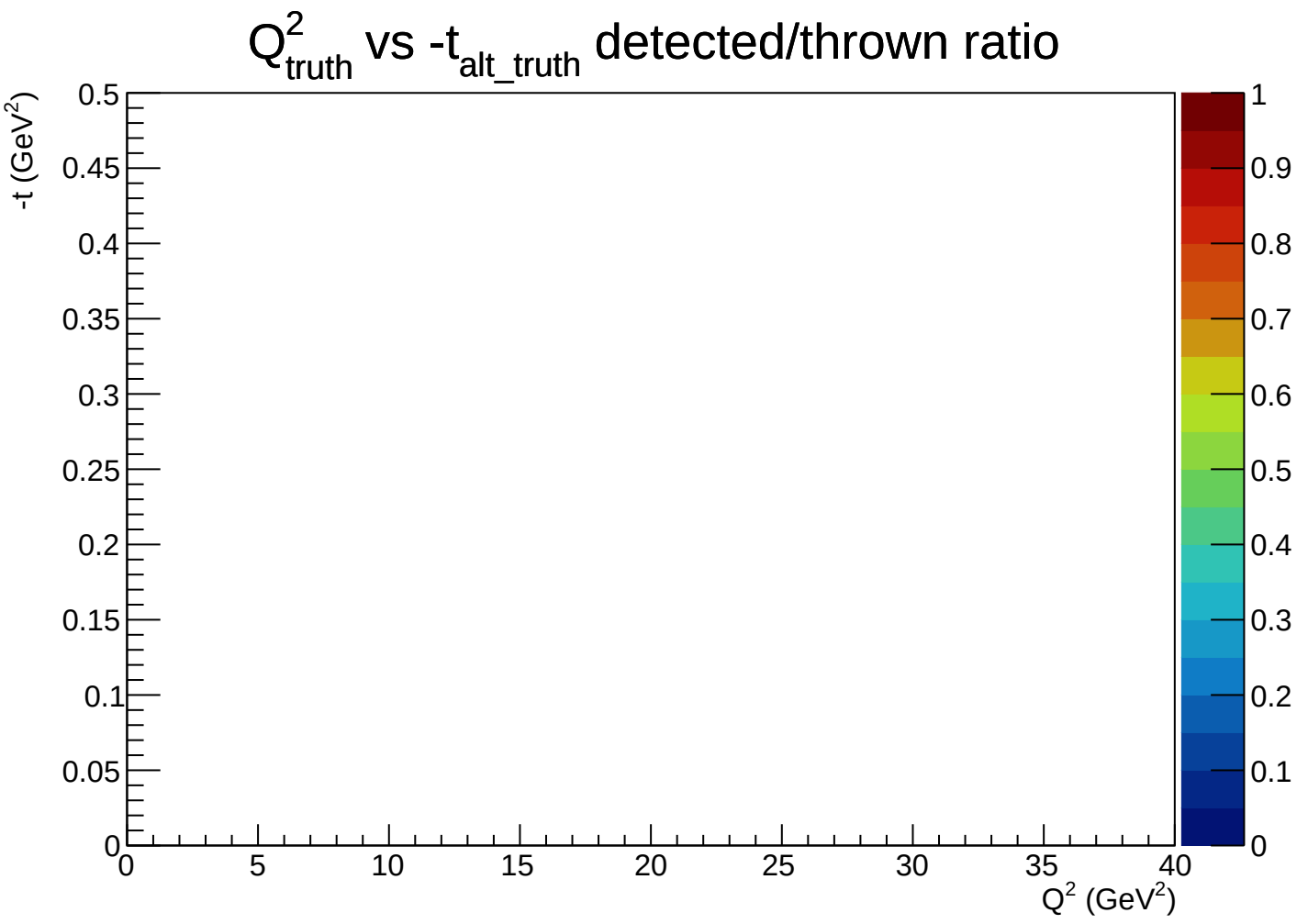

ϕ* - ϕ*
pMiss_rec ZDC
Rate (Hz)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
−100
−80
−60
−40
−20
0
20
40
60
80
100
ϕ* - ϕ* (Deg)
pMiss_rec ZDC

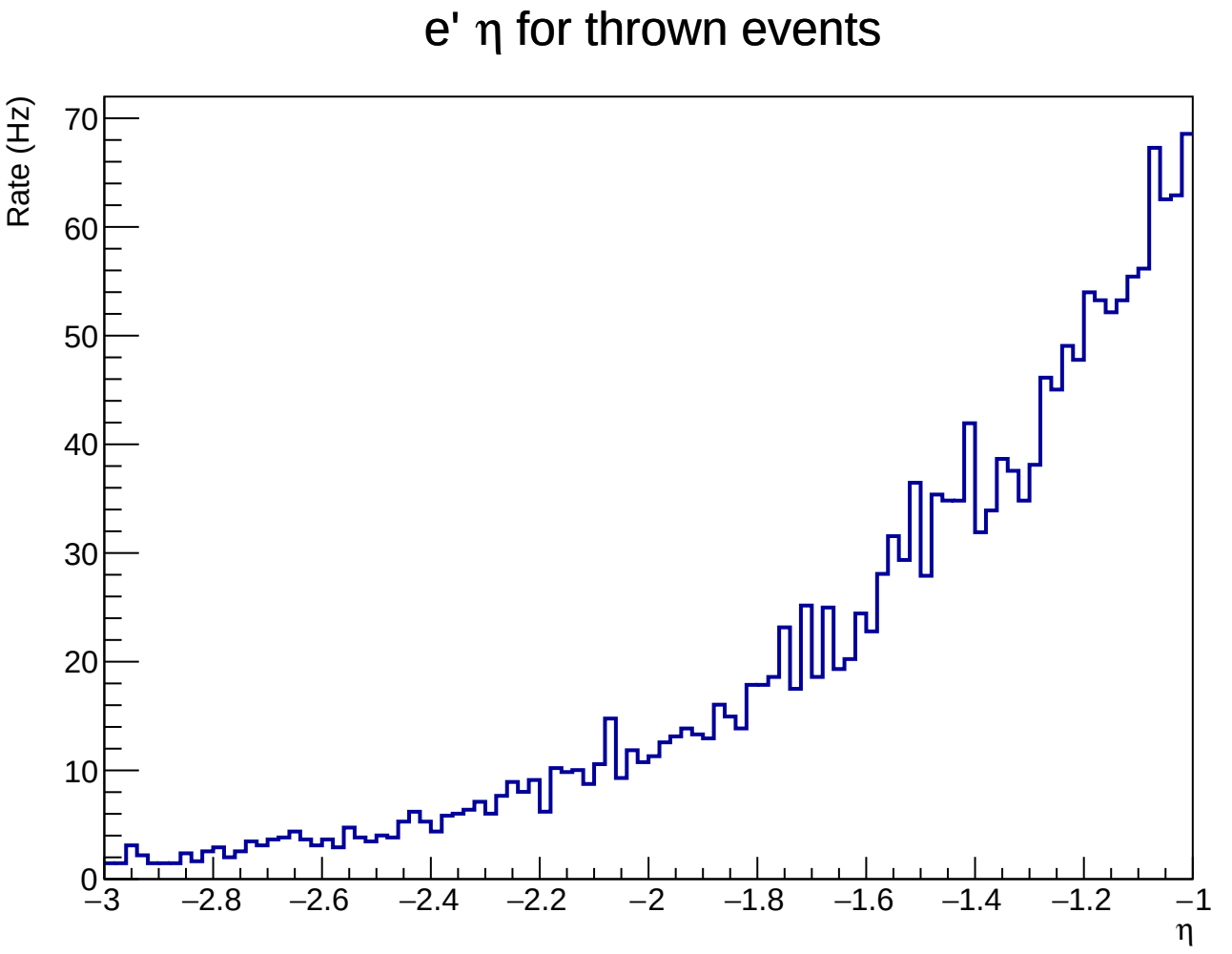

θ* pMiss_rec - θ* ZDC vs ϕ* pMiss_rec - ϕ* ZDC
ϕ* pMiss_rec - ϕ* ZDC (Deg)
θ* pMiss_rec - θ* ZDC (Deg)
60
40
20
0
−20
−40
−60
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1
10^{-1}
10^{-2}
10^{-3}

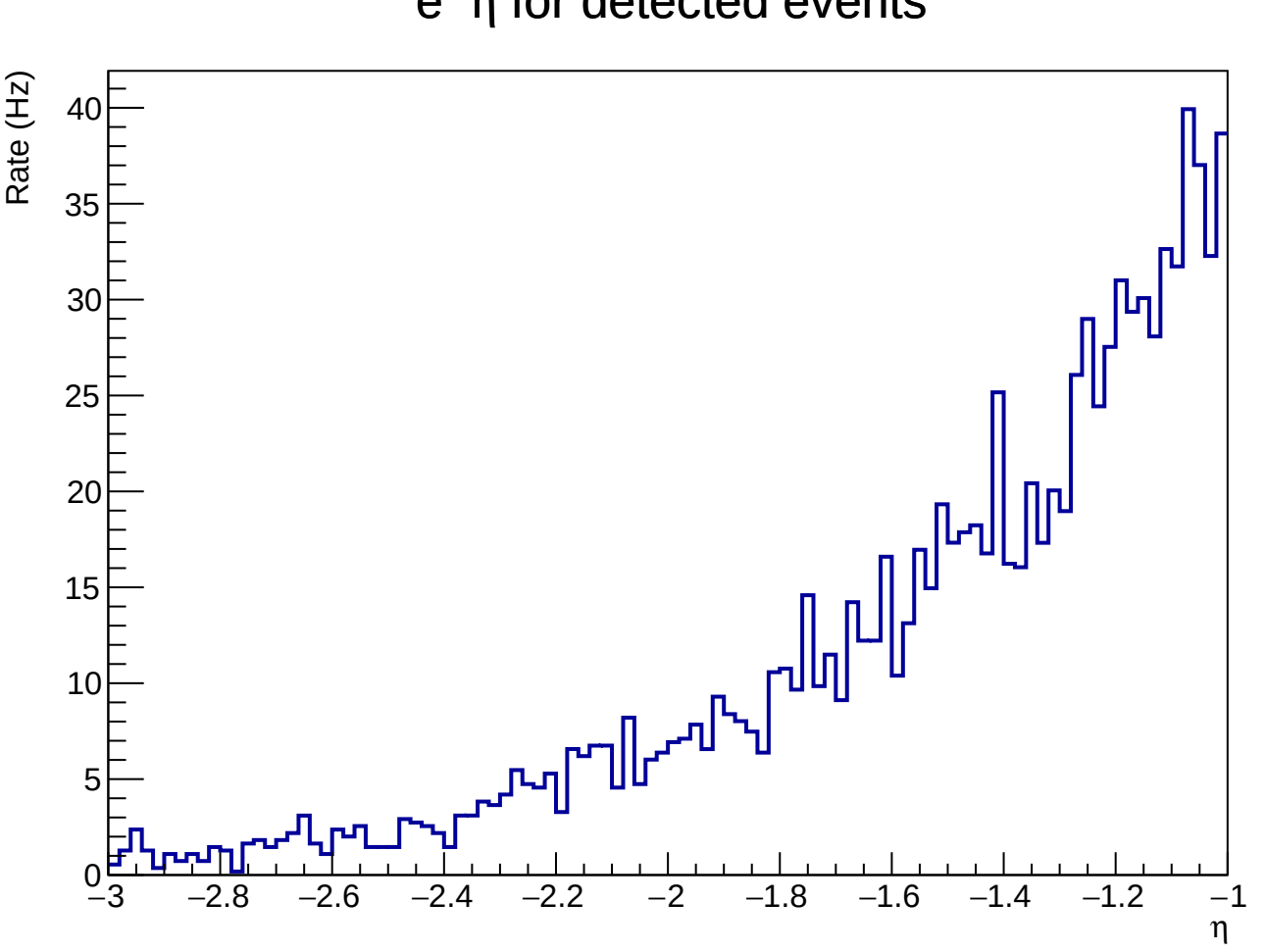

-t rec, alt_rec, rec_pT, rec_corr - -t alt_truth Distribution
Rate (Hz)
1
0.8
0.6
0.4
0.2
0
–0.2
–0.15
–0.1
–0.05
0
0.05
0.1
0.15
0.2
0.25
0.3
Δ -t (GeV2)
t rec - t alt_truth
t alt_rec - t alt_truth
t recpT - t alt_truth
t rec_corr - t alt_truth

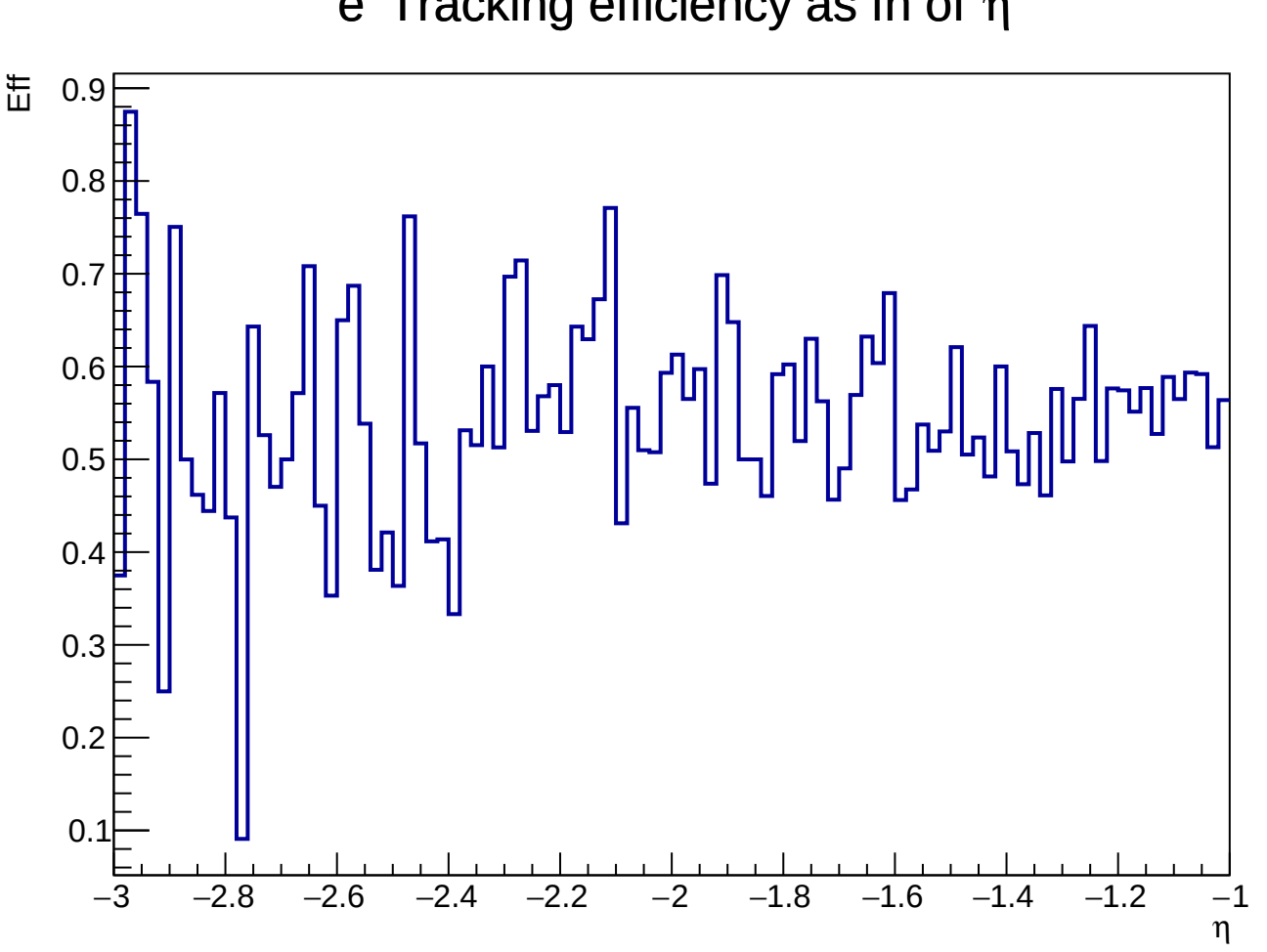

Q^2_{truth} vs $-t_{alt_truth}$ for thrown events
-t (GeV^2)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
5
10
15
20
25
30
35
40
Q^2 (GeV^2)
Rate/bin (Hz)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

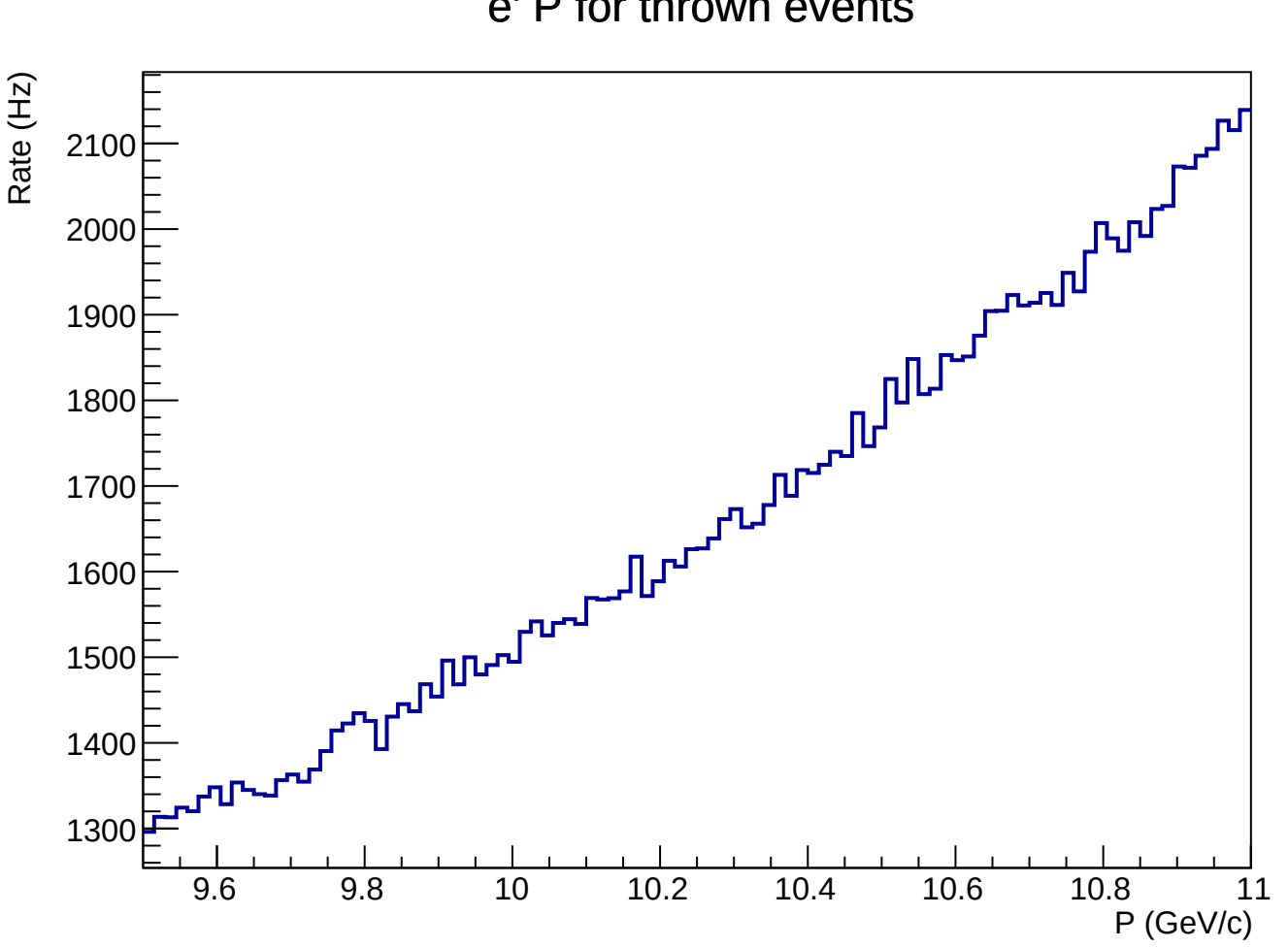

Q^2_{truth} vs $-t_{alt_truth}$ for detected events
-t (GeV^2)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
5
10
15
20
25
30
35
40
Q^2 (GeV^2)

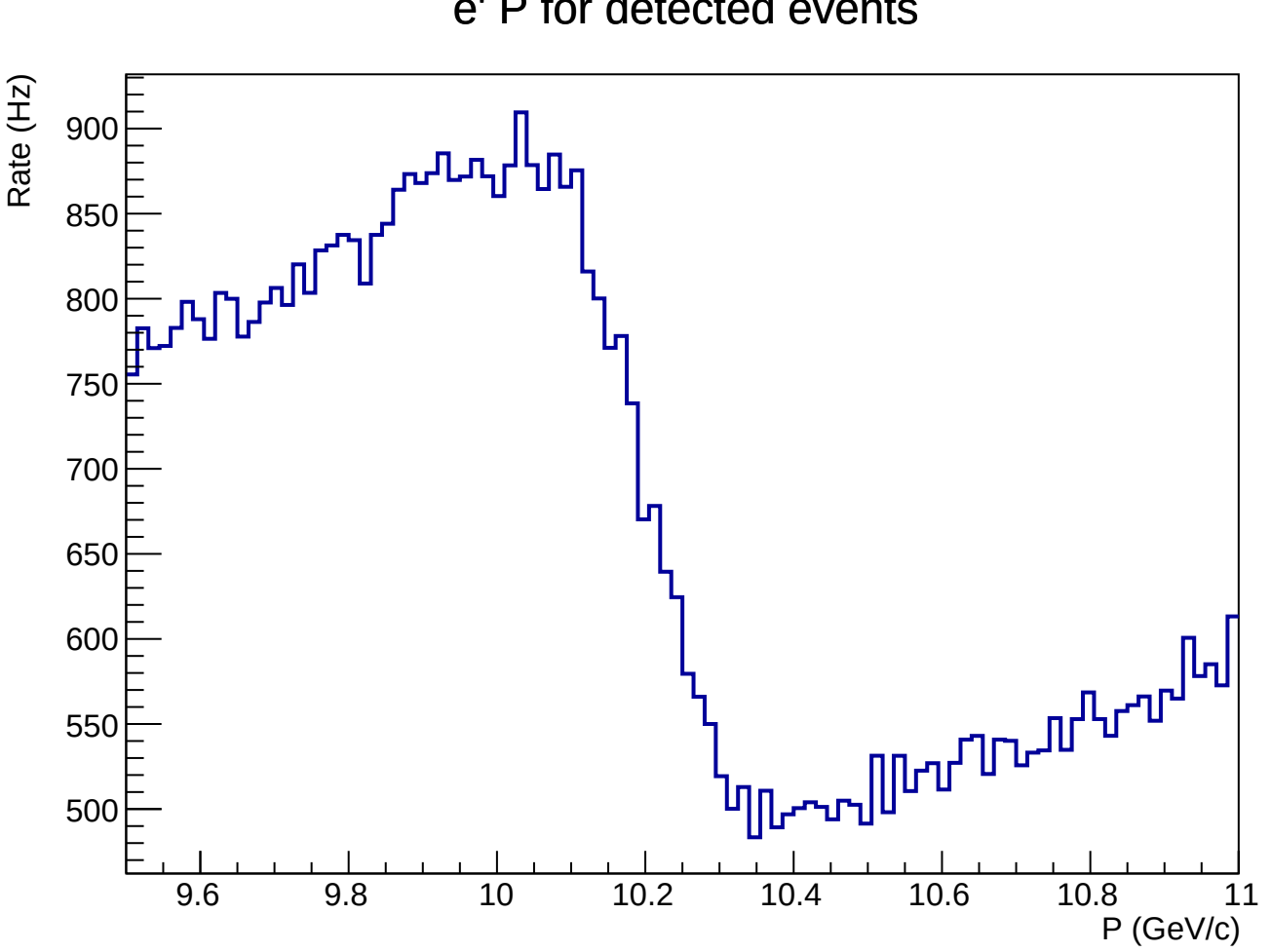

Q^2_{truth} vs $-t_{alt_truth}$ detected/thrown ratio
-t (GeV^2)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
5
10
15
20
25
30
35
40
Q^2 (GeV^2)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

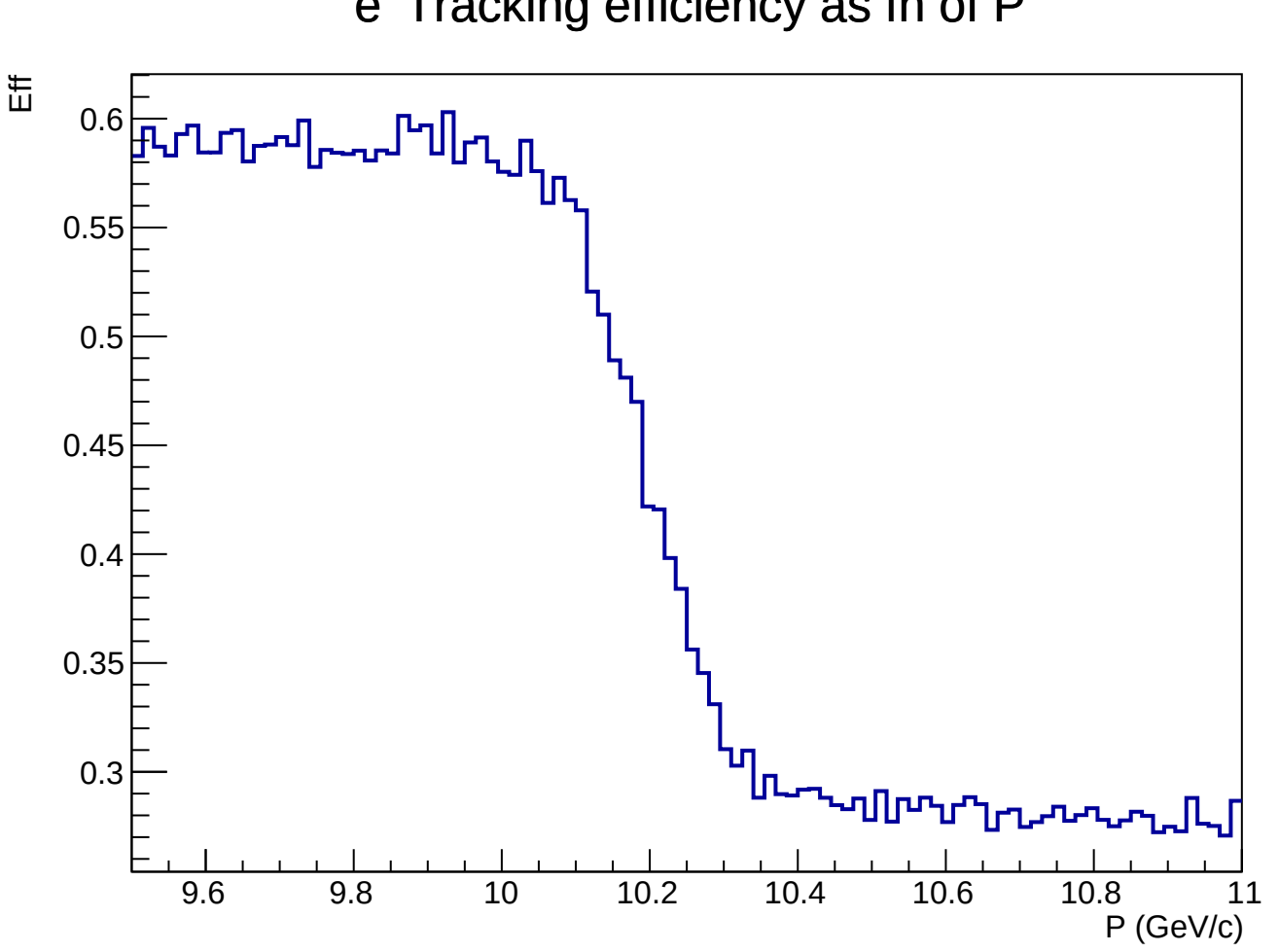

e' η for thrown events
Rate (Hz)
70
60
50
40
30
20
10
0
−3
−2.8
−2.6
−2.4
−2.2
−2
−1.8
−1.6
−1.4
−1.2
−1
η

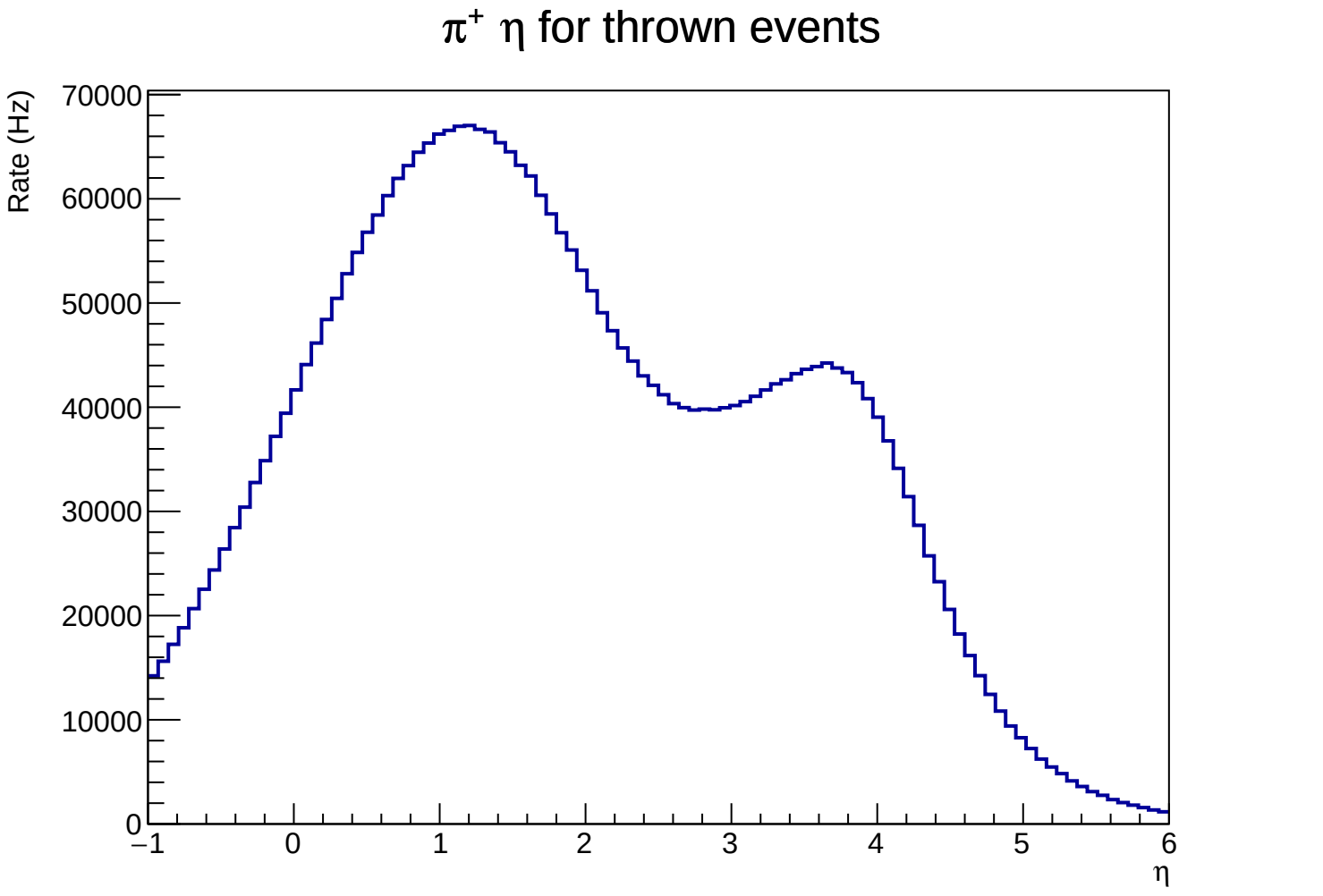

e' η for detected events
Rate (Hz)
0
5
10
15
20
25
30
35
40
−3
−2.8
−2.6
−2.4
−2.2
−2
−1.8
−1.6
−1.4
−1.2
−1
η

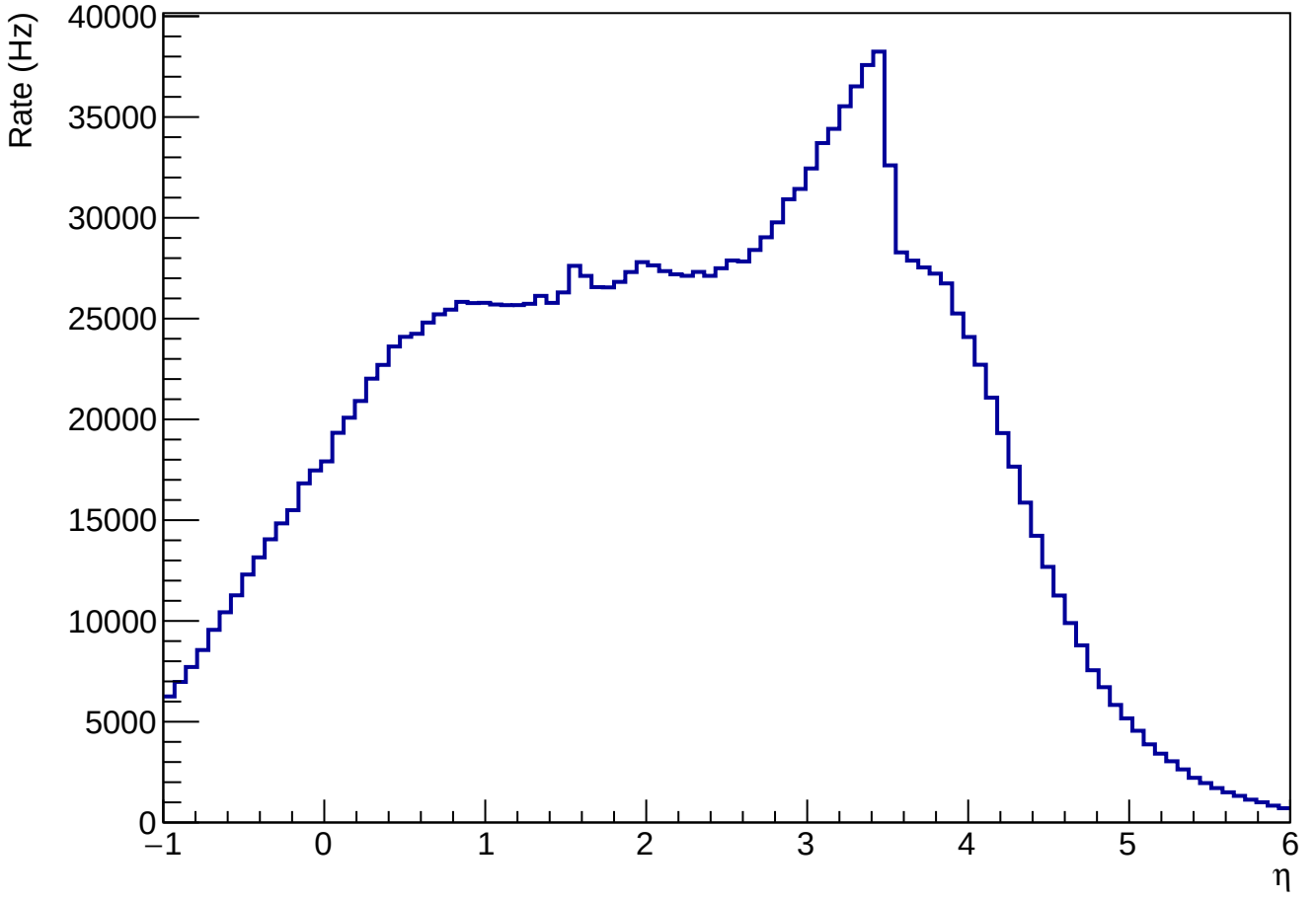

e' Tracking efficiency as fn of η
Eff
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
−3
−2.8
−2.6
−2.4
−2.2
−2
−1.8
−1.6
−1.4
−1.2
−1
η

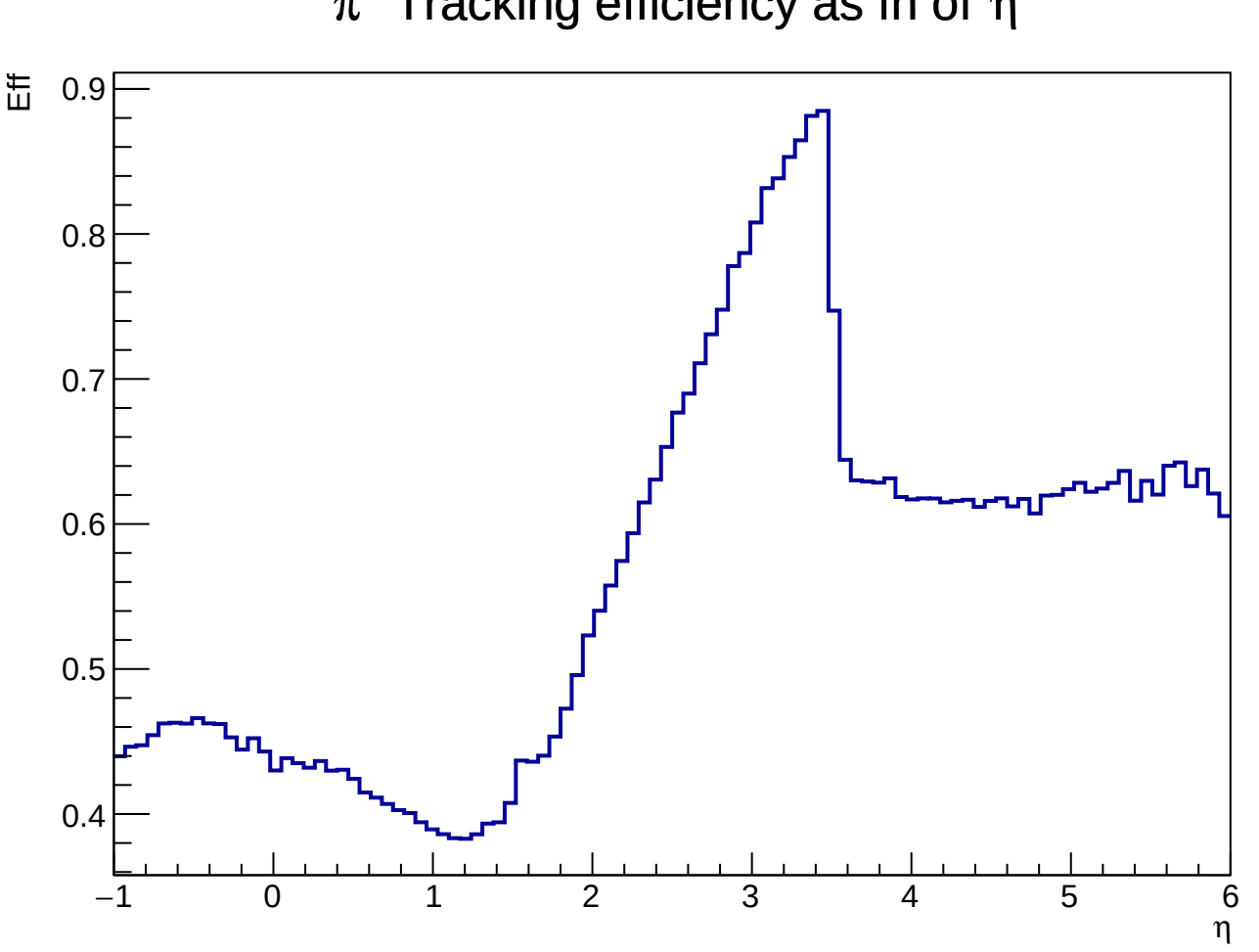

e' P for thrown events
Rate (Hz)
2100
2000
1900
1800
1700
1600
1500
1400
1300
9.6
9.8
10
10.2
10.4
10.6
10.8
11
P (GeV/c)

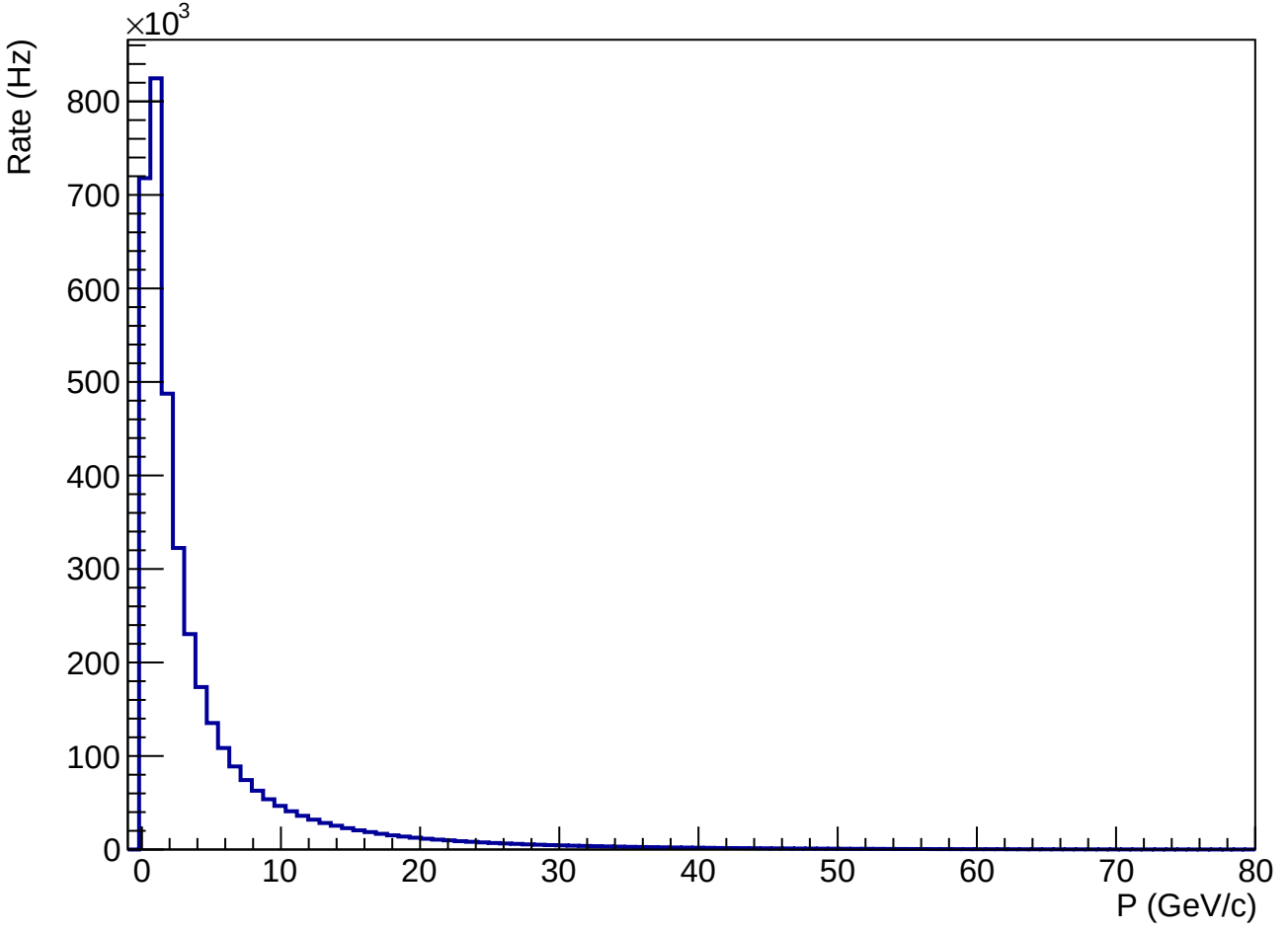

e' P for detected events
Rate (Hz)
900
850
800
750
700
650
600
550
500
9.6
9.8
10
10.2
10.4
10.6
10.8
11
P (GeV/c)

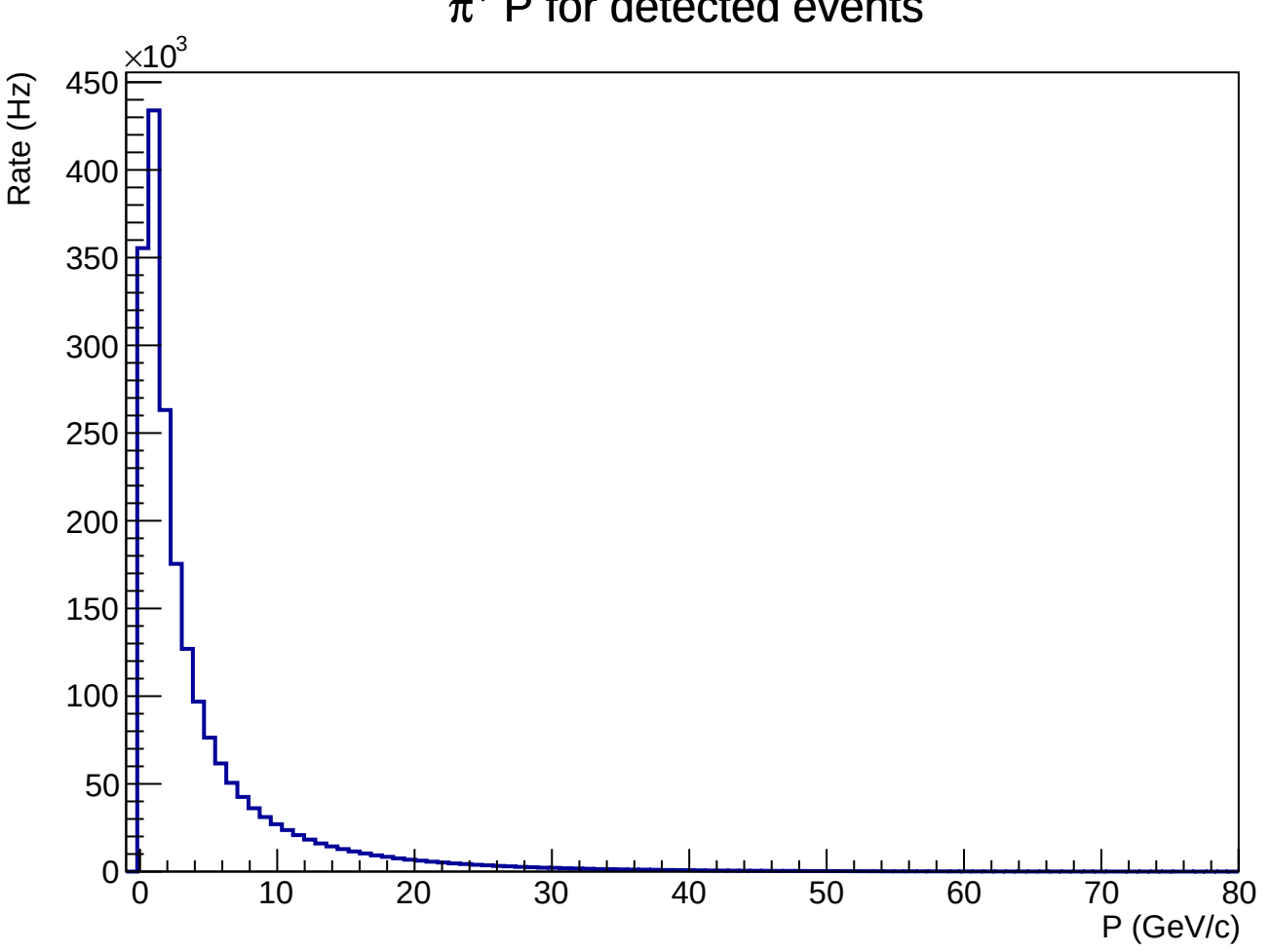

e' Tracking efficiency as fn of P
Eff
0.6
0.55
0.5
0.45
0.4
0.35
0.3
9.6
9.8
10
10.2
10.4
10.6
10.8
11
P (GeV/c)

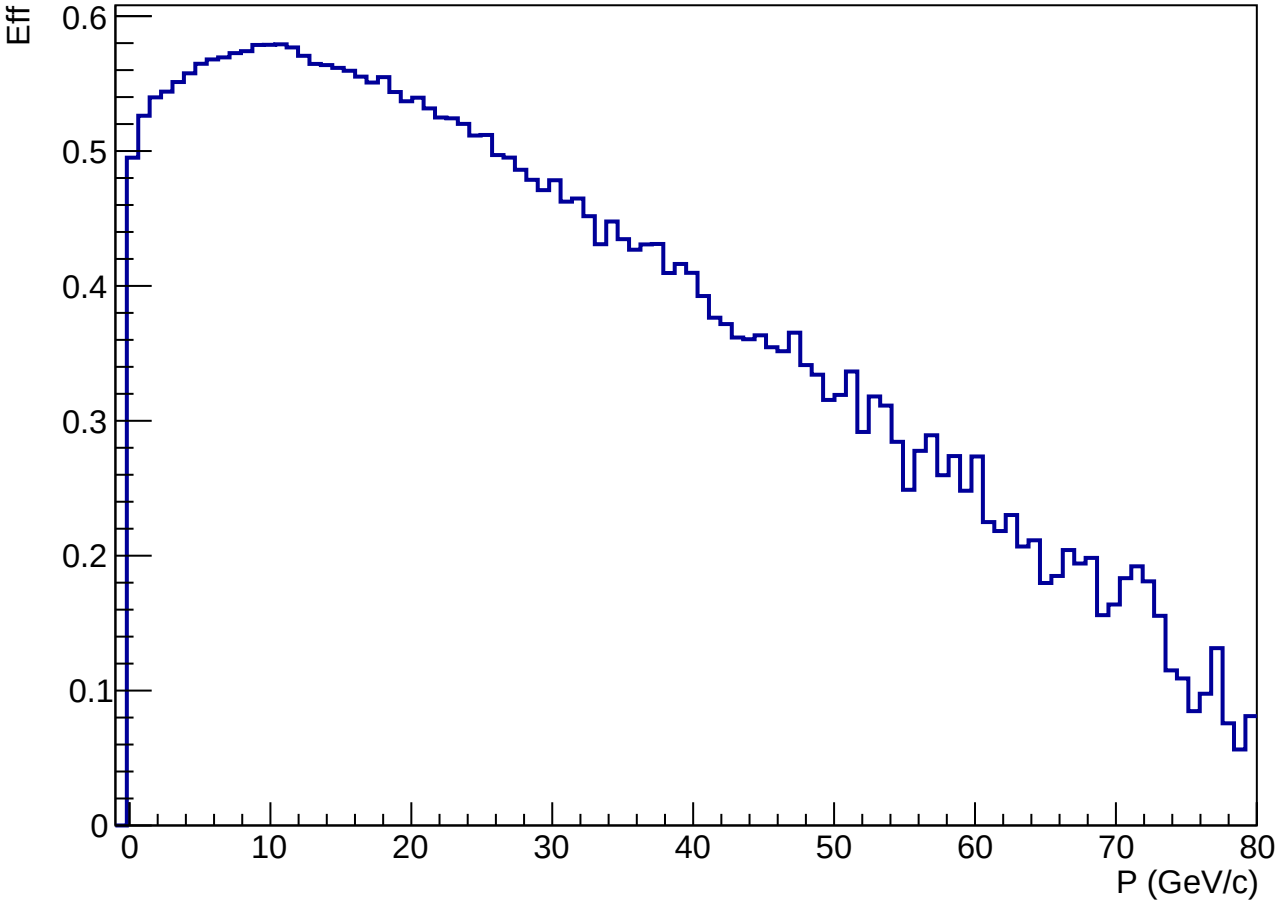

π^+ η for thrown events
Rate (Hz)
70000
60000
50000
40000
30000
20000
10000
0
−1
0
1
2
3
4
5
6
η

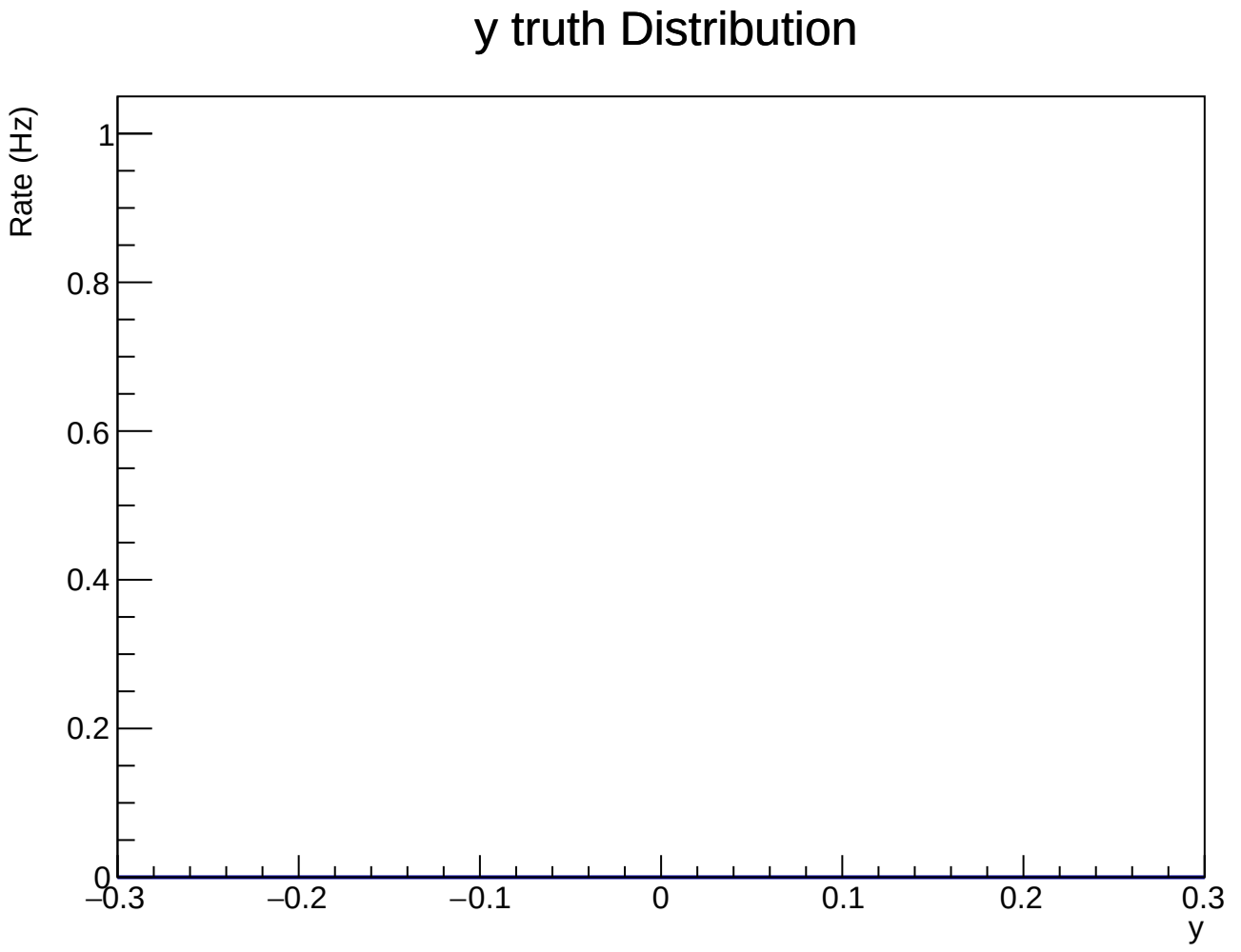

π^+ η for detected events
Rate (Hz)
40000
35000
30000
25000
20000
15000
10000
5000
0
−1
0
1
2
3
4
5
6
η

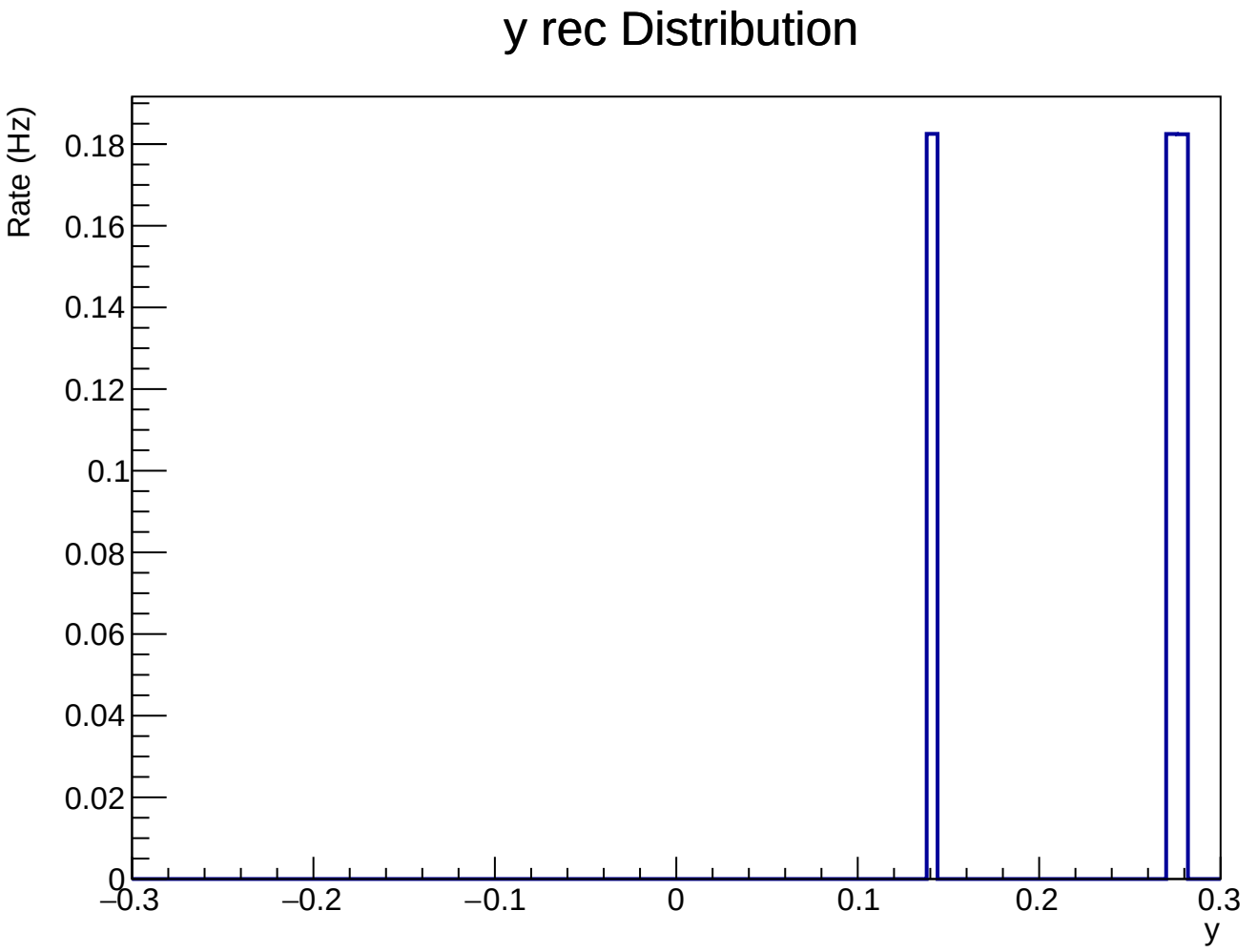

π^+ Tracking efficiency as fn of η
Eff
0.9
0.8
0.7
0.6
0.5
0.4
−1
0
1
2
3
4
5
6
η

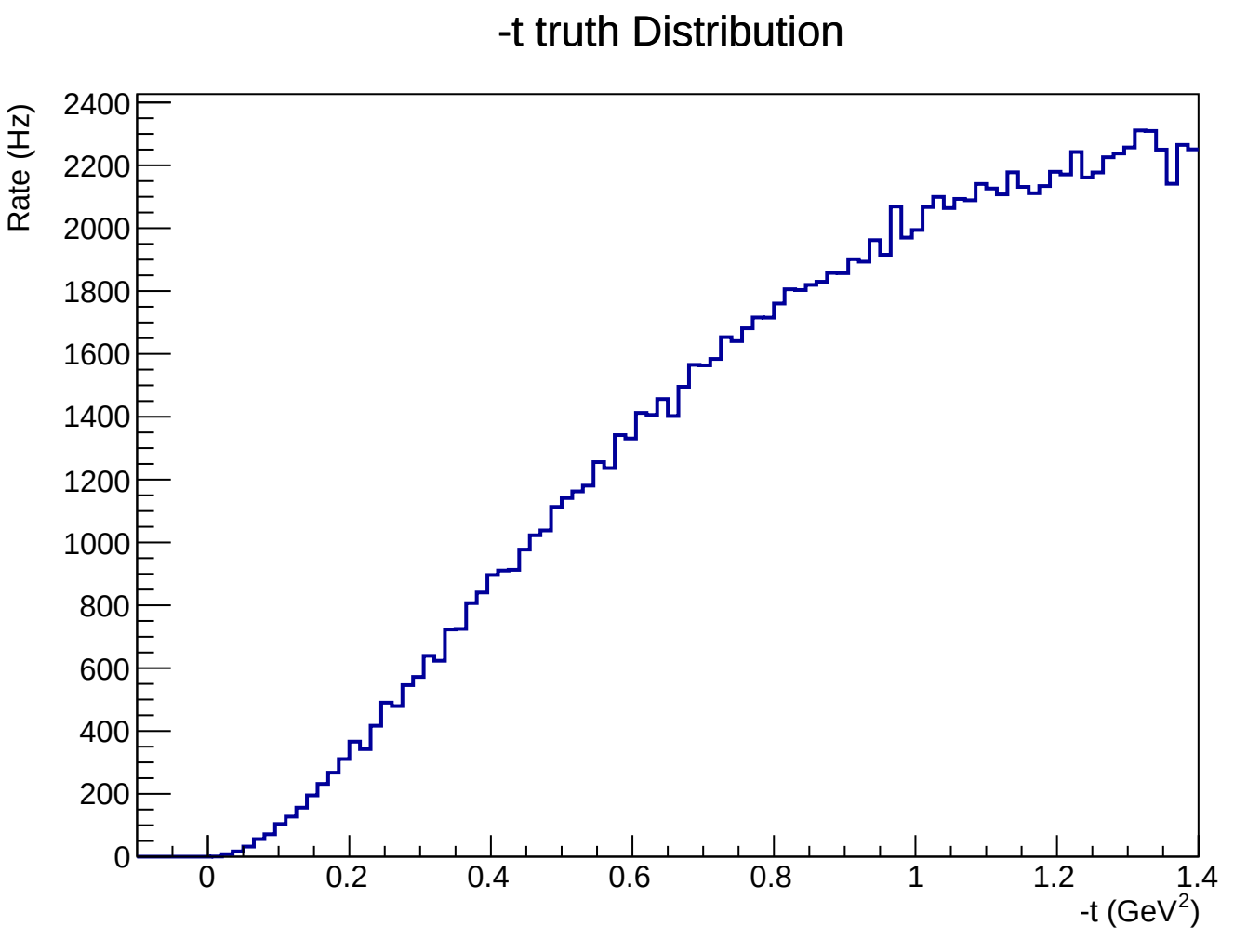

π^+ P for thrown events
$\times 10^3$
Rate (Hz)
800
700
600
500
400
300
200
100
0
0
10
20
30
40
50
60
70
80
P (GeV/c)

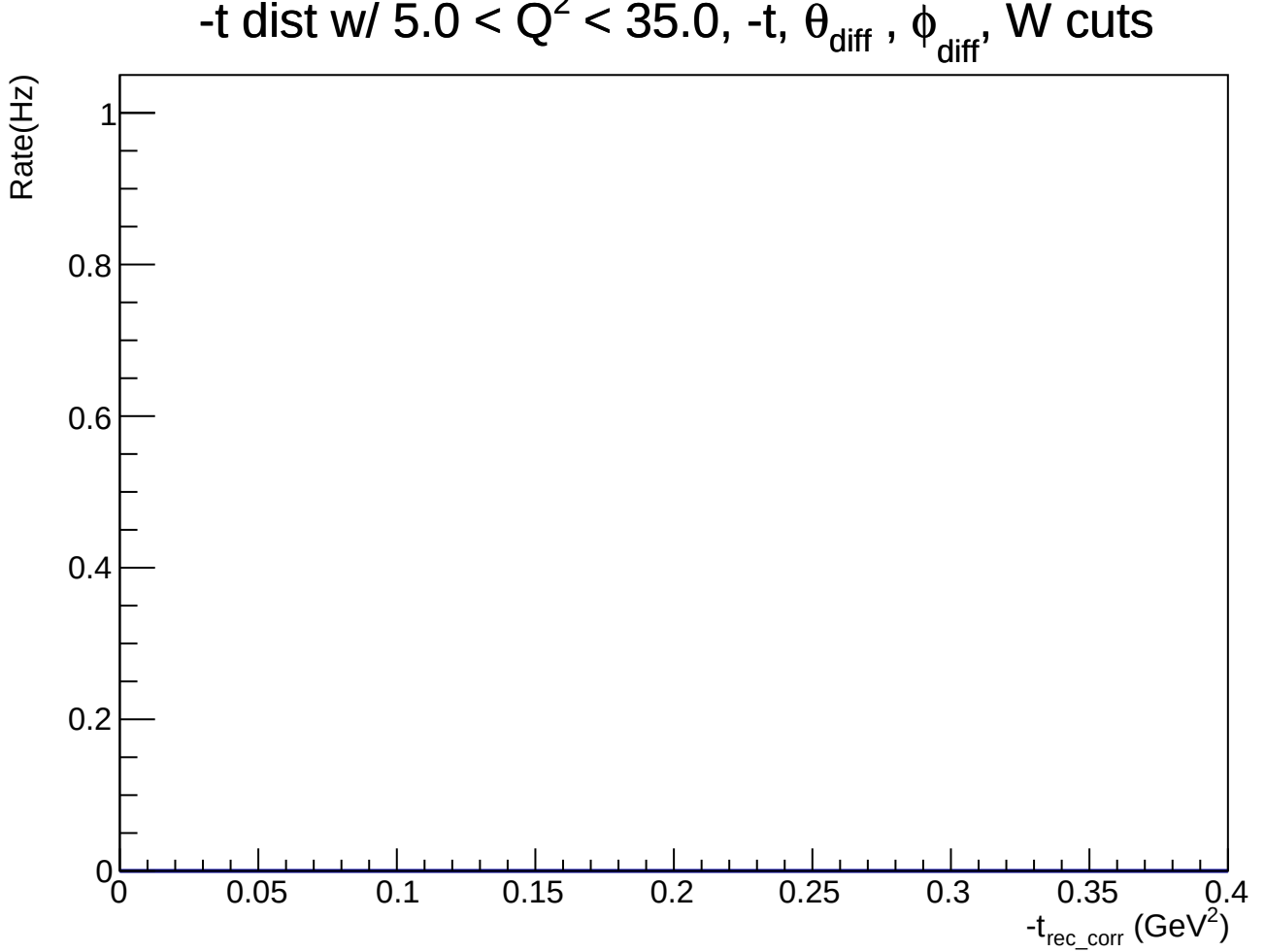

π^+ P for detected events
$\times 10^3$
Rate (Hz)
450
400
350
300
250
200
150
100
50
0
0
10
20
30
40
50
60
70
80
P (GeV/c)

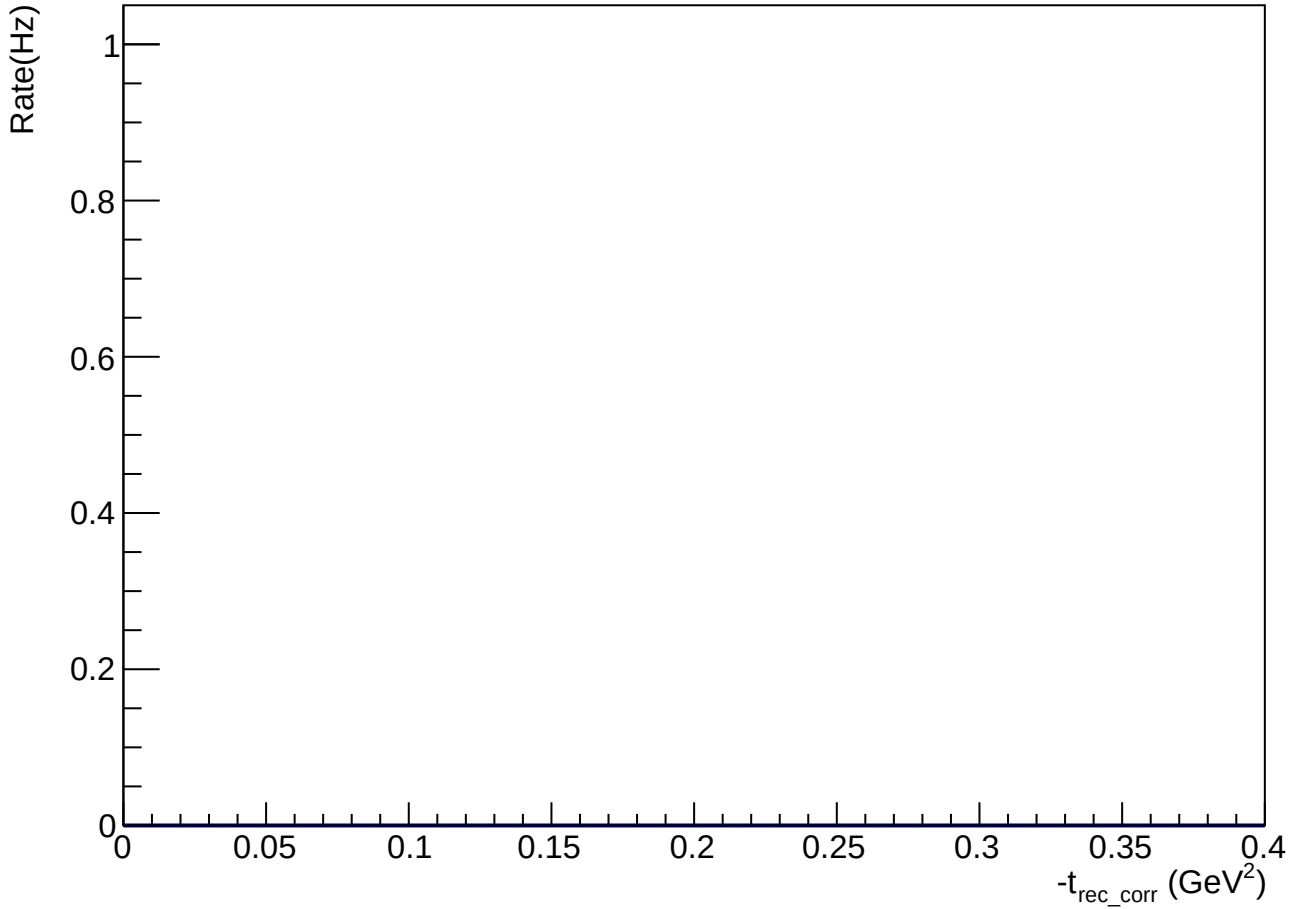

π^+ Tracking efficiency as fn of P
Eff
0.6
0.5
0.4
0.3
0.2
0.1
0
0
10
20
30
40
50
60
70
80
P (GeV/c)

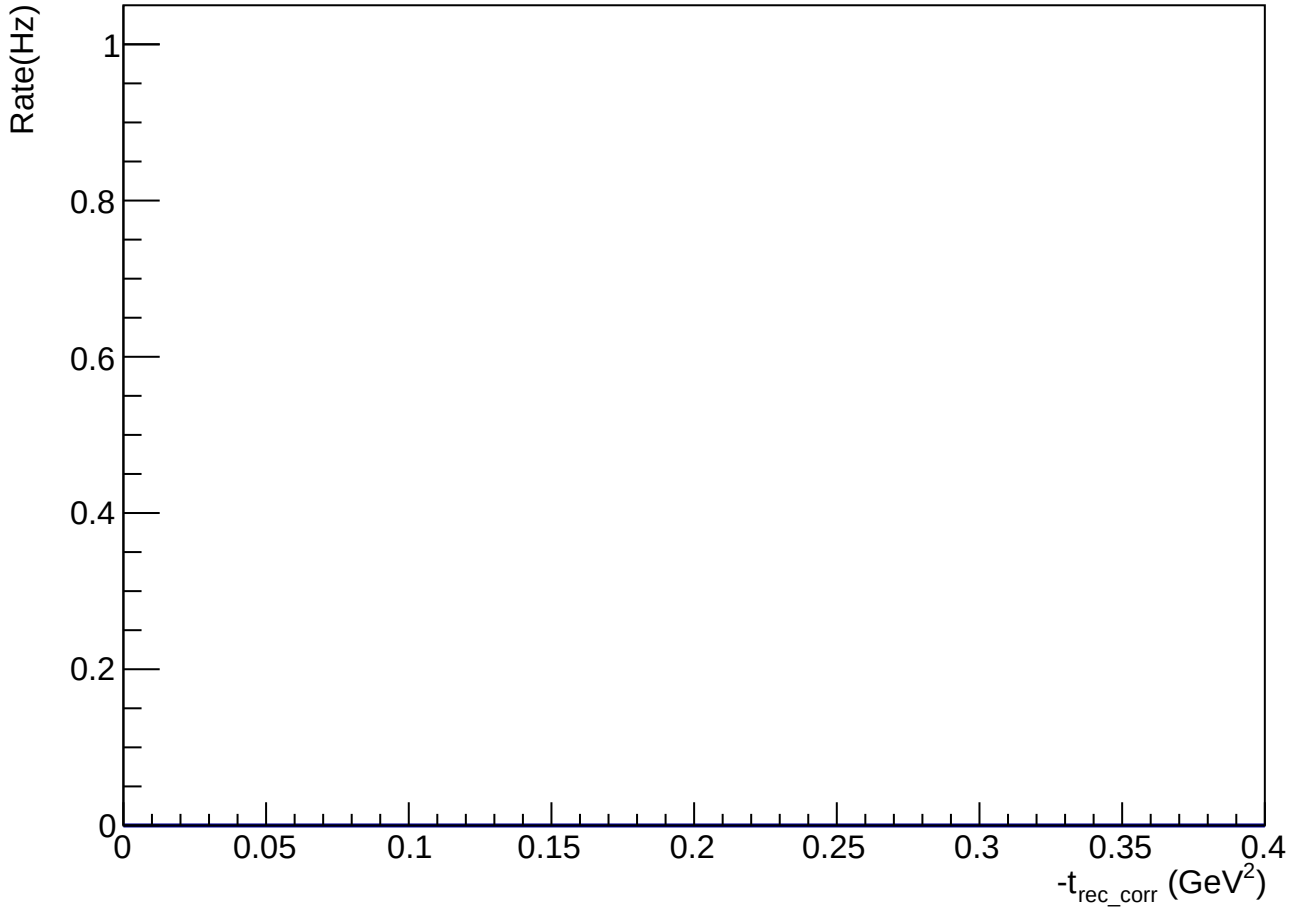

y truth Distribution
Rate (Hz)
1
0.8
0.6
0.4
0.2
0
–0.3
–0.2
–0.1
0
0.1
0.2
0.3
y

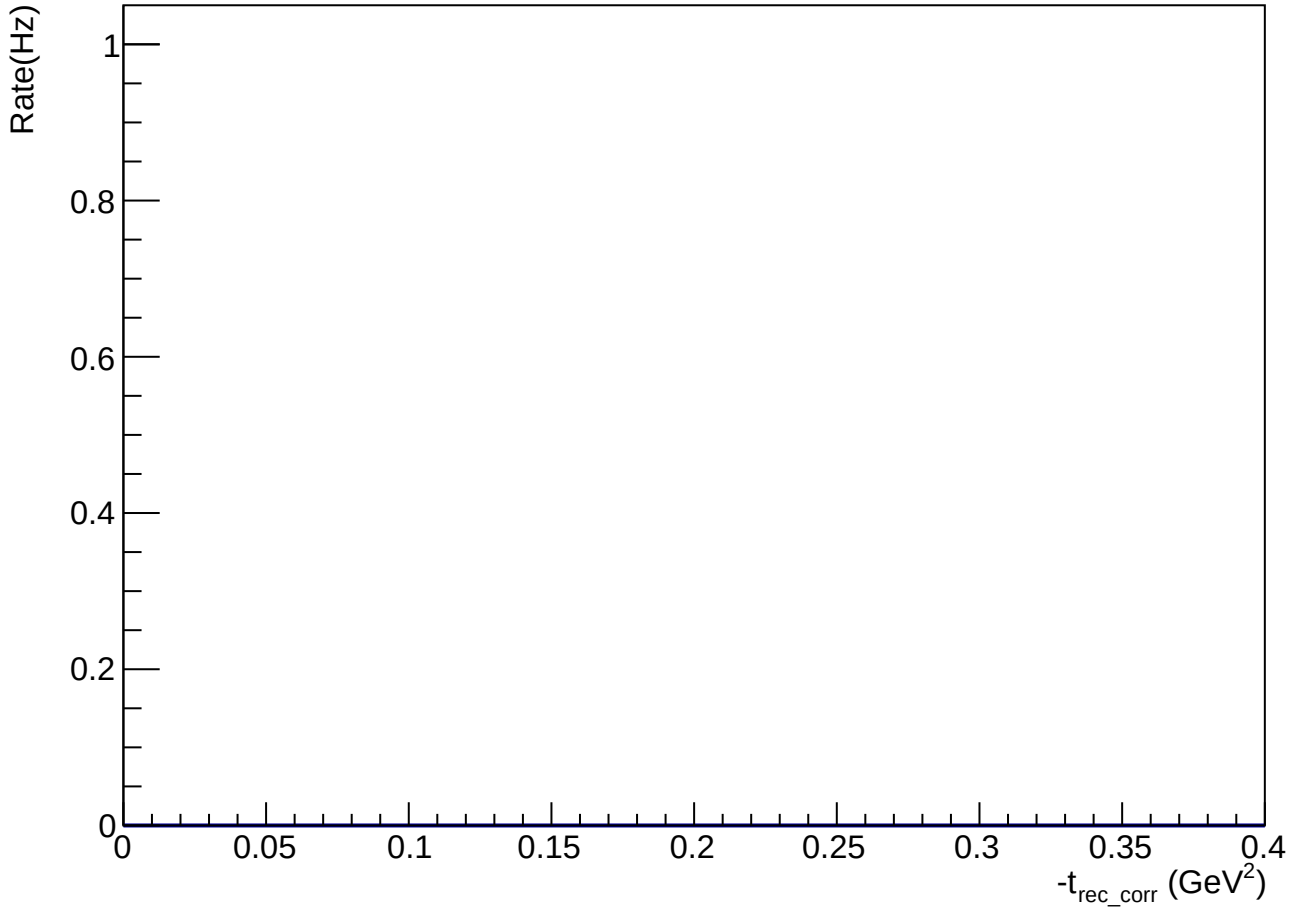

y rec Distribution
Rate (Hz)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
–0.3
–0.2
–0.1
0
0.1
0.2
0.3
y

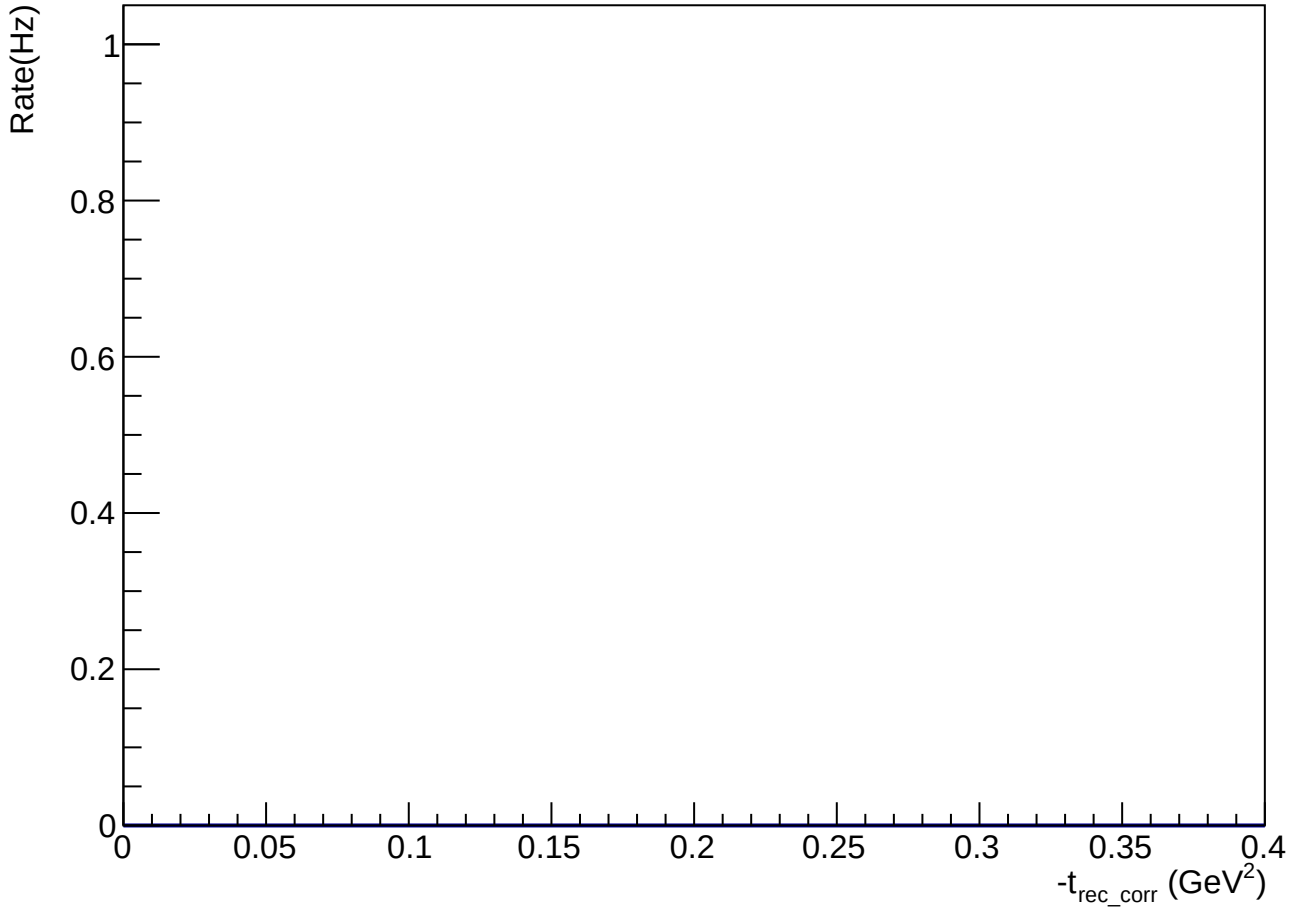

-t truth Distribution
Rate (Hz)
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
-t (GeV^2)

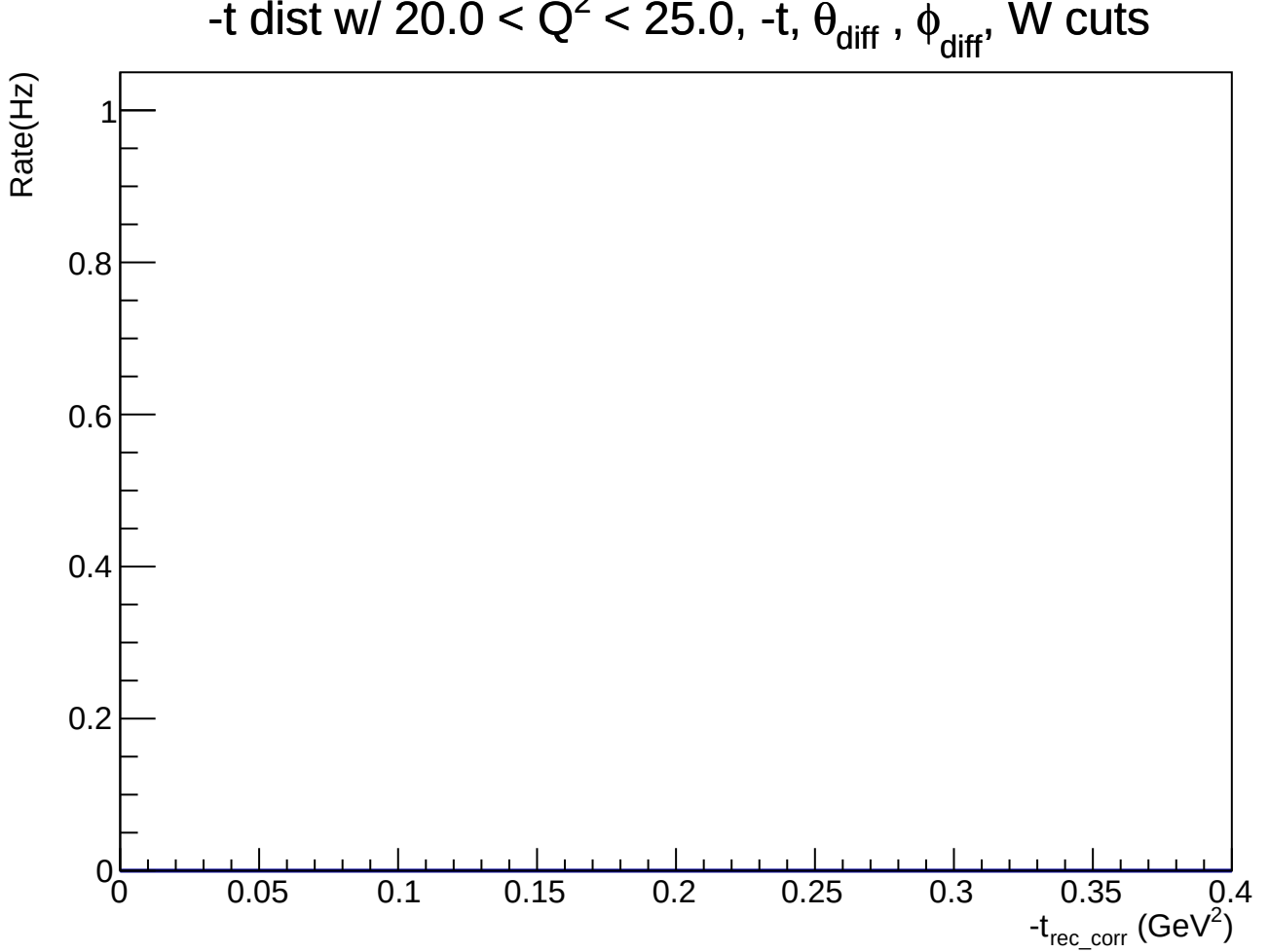

-t dist w/ 5.0 < Q2 < 35.0, -t, θdiff , ϕdiff, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
-trec_corr (GeV2)

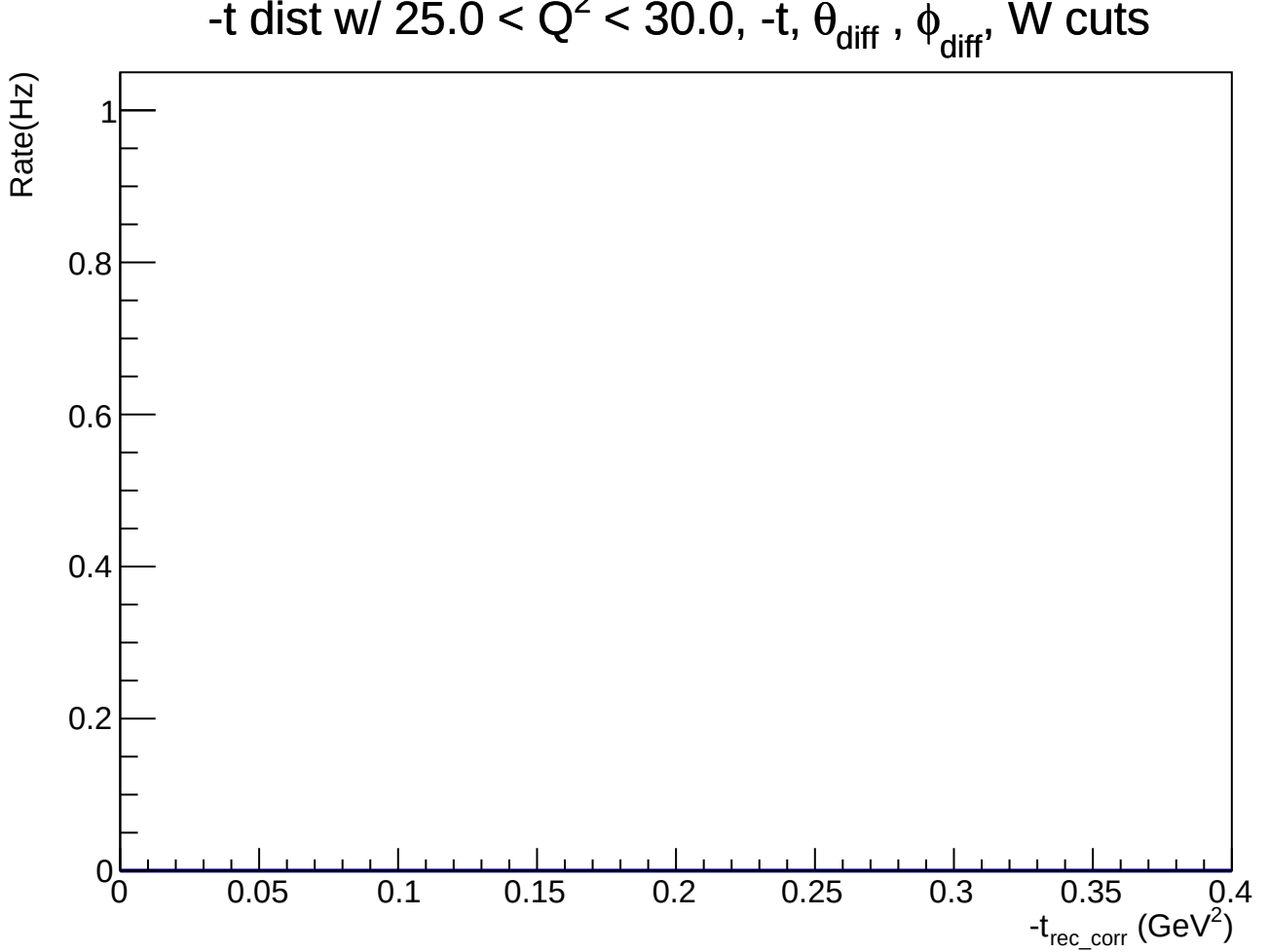

-t dist w/ 5.0 < Q2 < 7.5, -t, θdiff , ϕdiff, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
-trec_corr (GeV2)

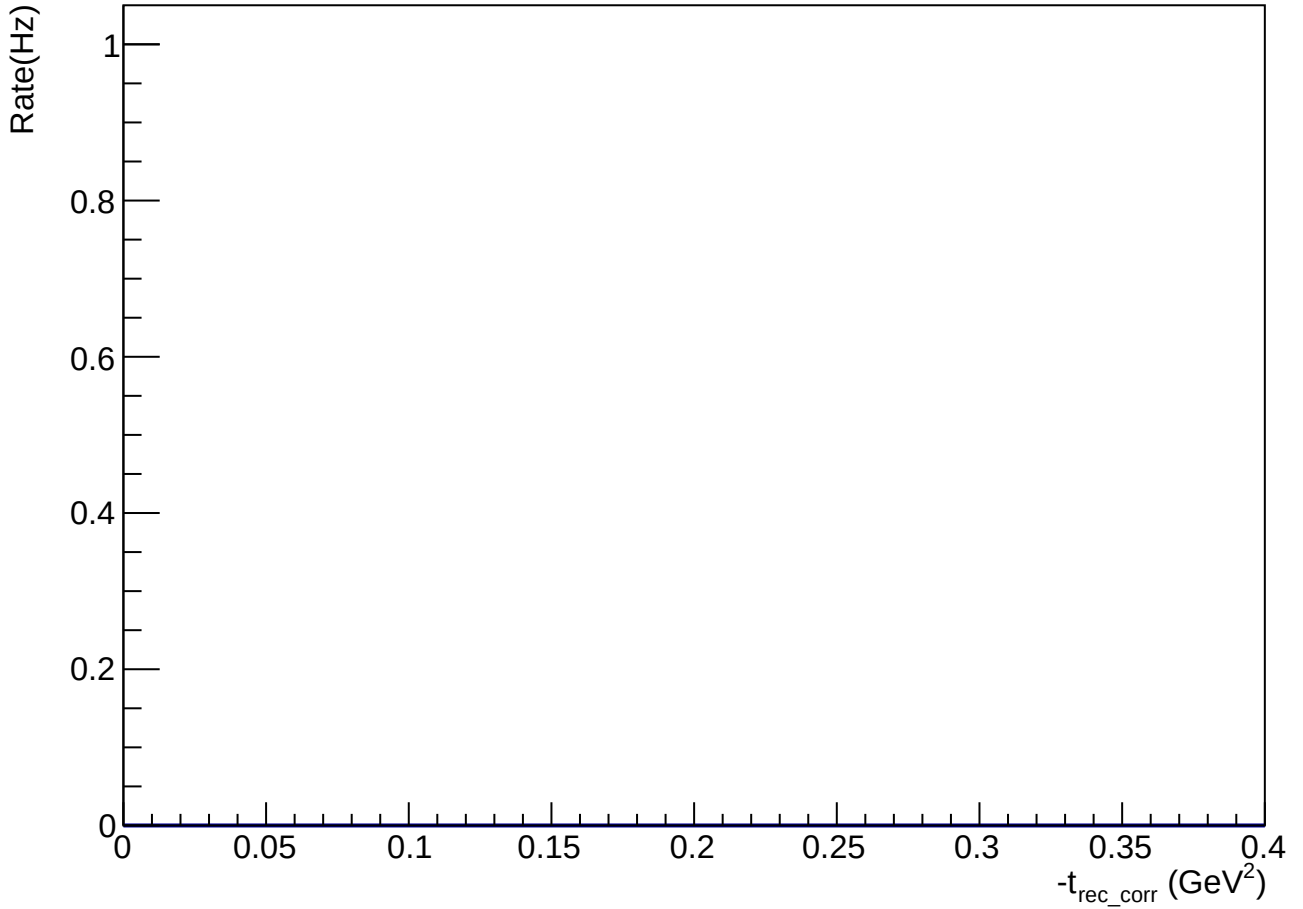

-t dist w/ 7.5 < Q2 < 10.0, -t, θdiff , ϕdiff, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
-trec_corr (GeV2)

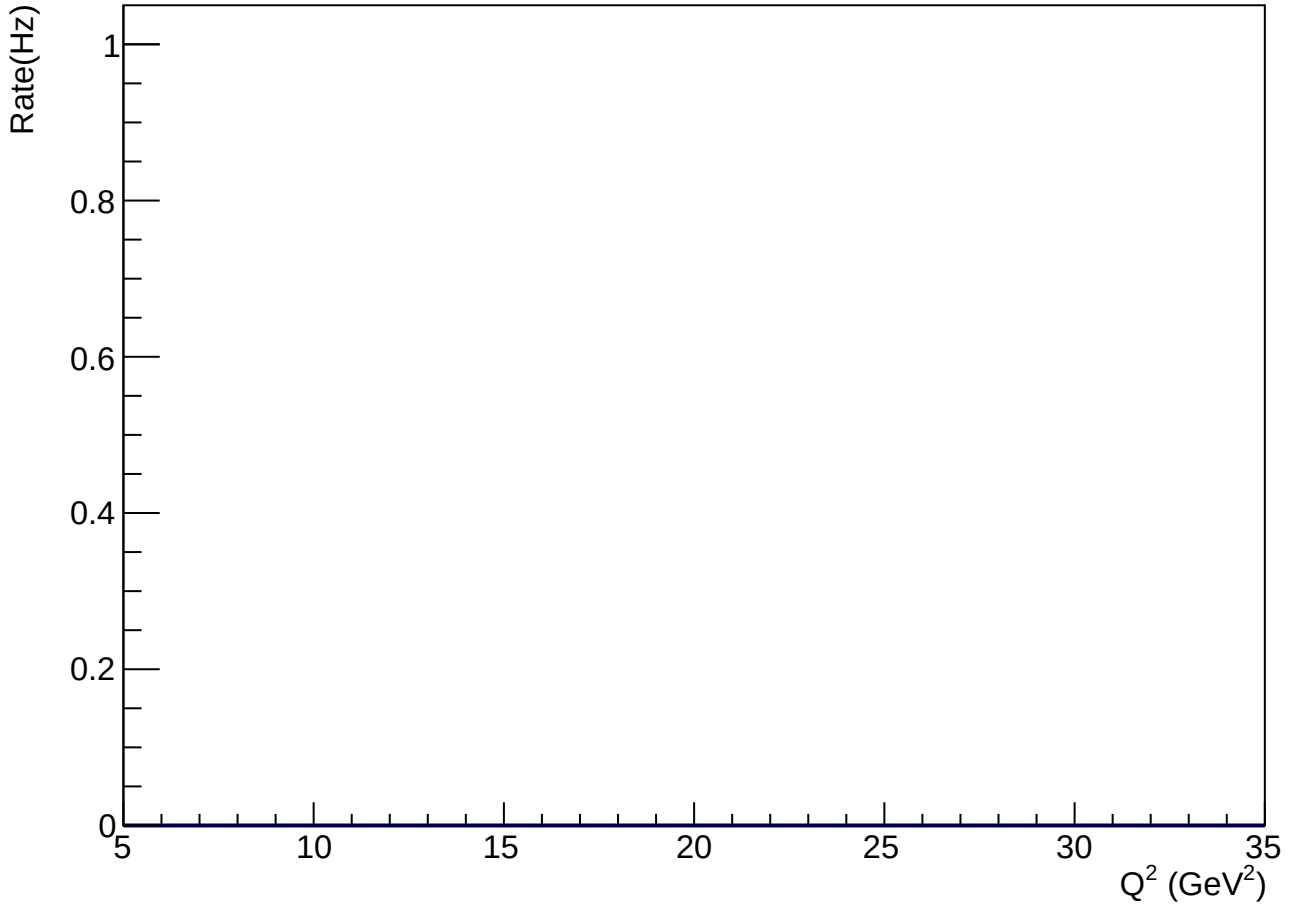

-t dist w/ 10.0 < Q2 < 15.0, -t, θdiff , ϕdiff, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
-trec_corr (GeV2)

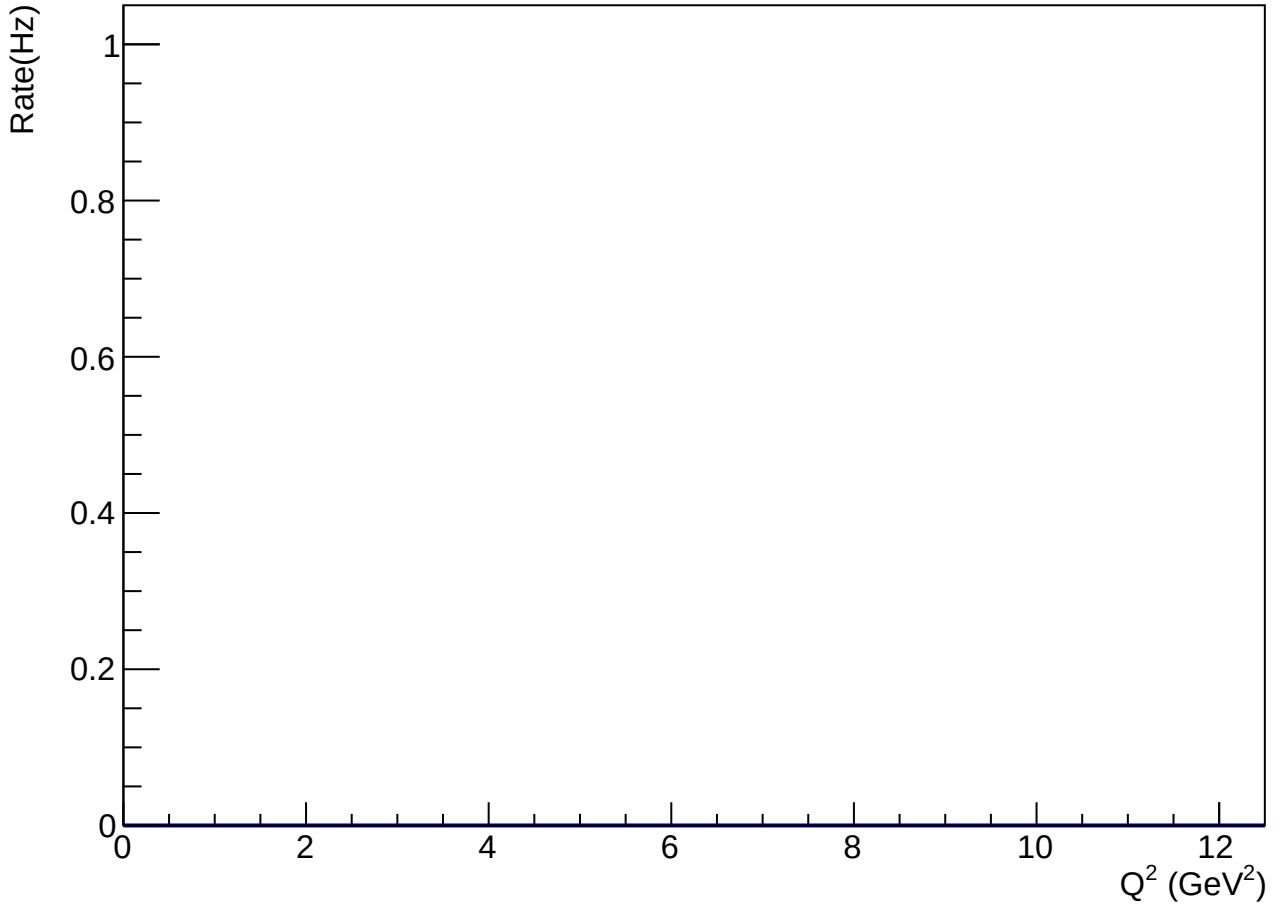

-t dist w/ 15.0 < Q2 < 20.0, -t, θdiff , ϕdiff, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
-trec_corr (GeV2)

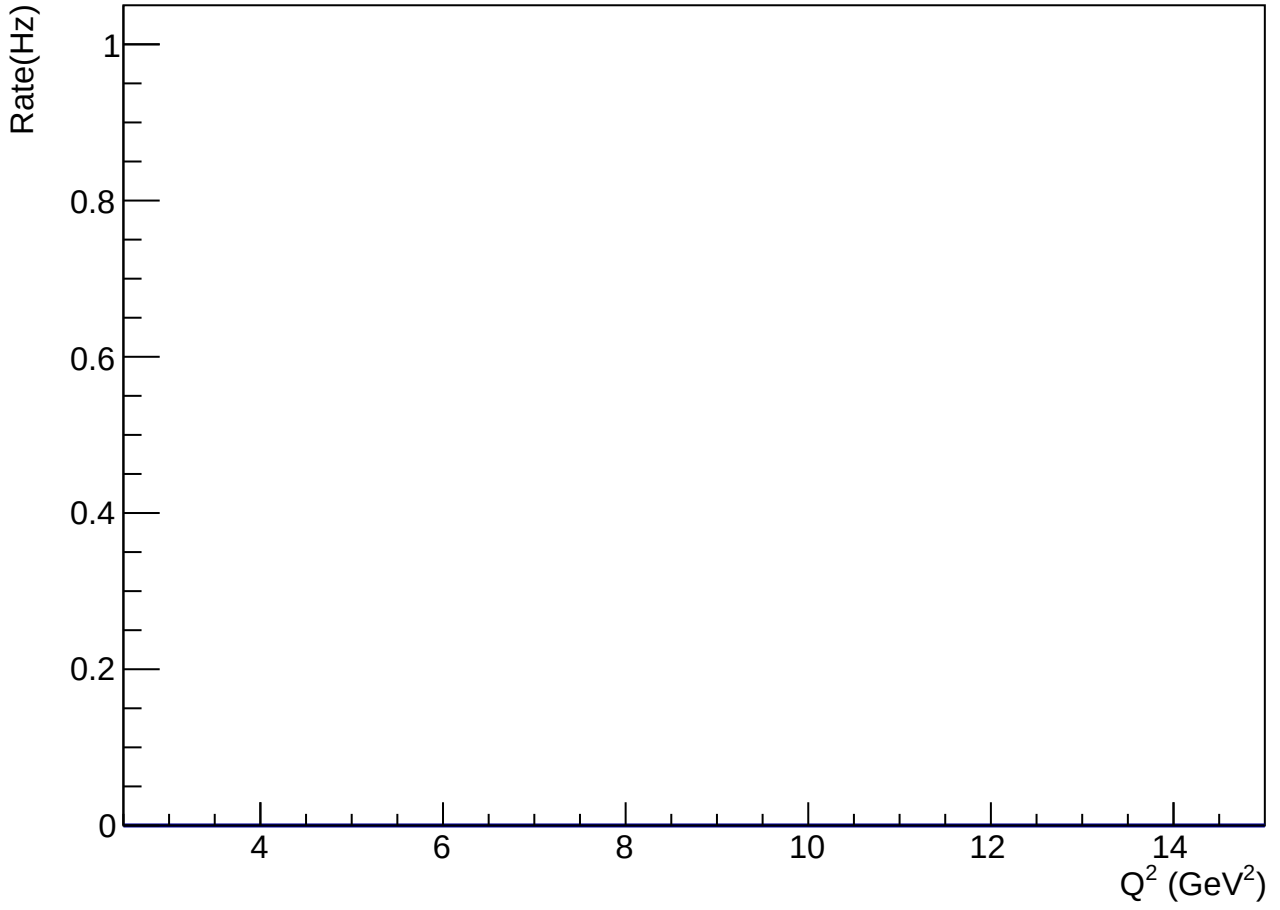

-t dist w/ 20.0 < Q2 < 25.0, -t, θdiff , ϕdiff, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
-trec_corr (GeV2)

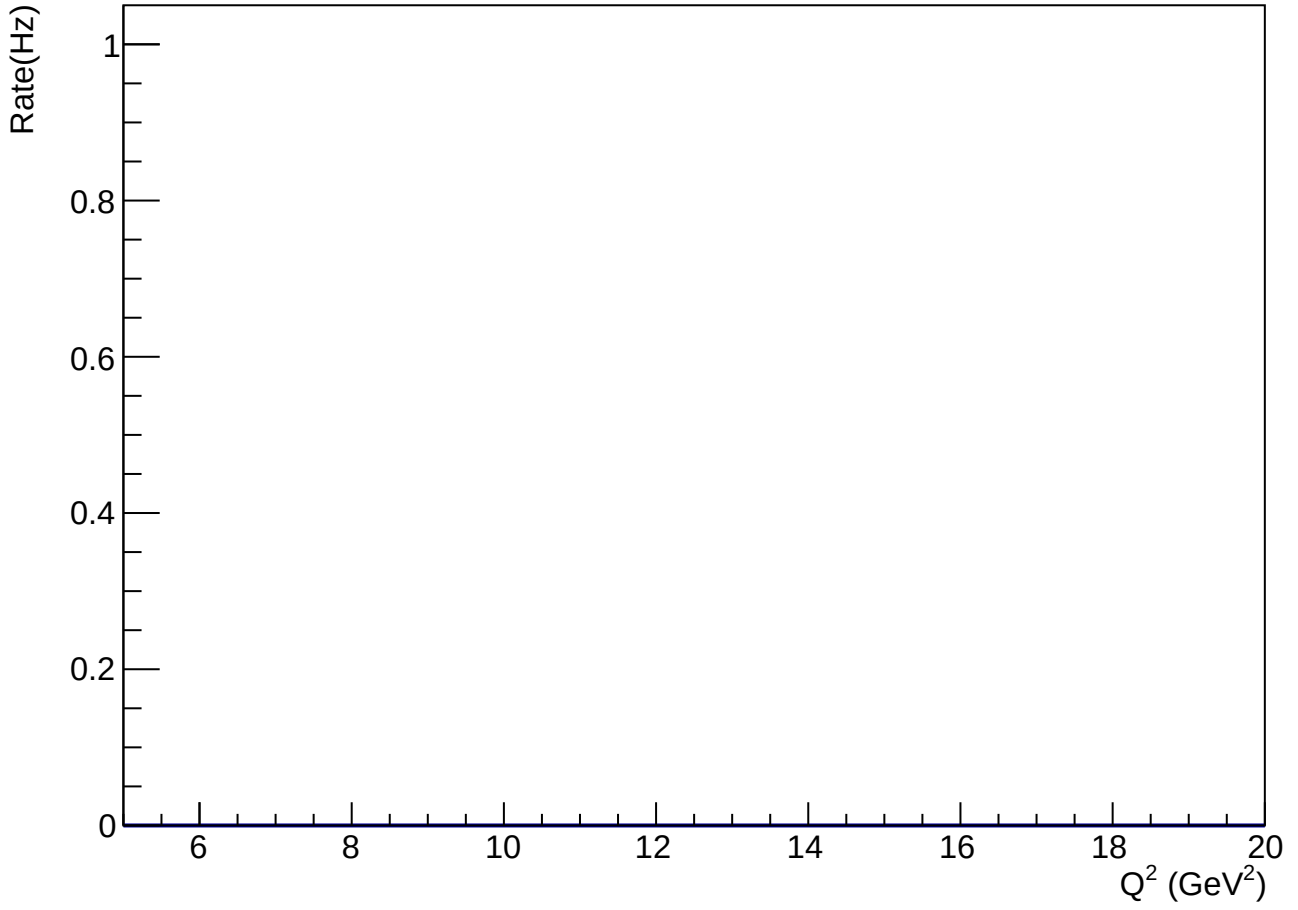

-t dist w/ 25.0 < Q2 < 30.0, -t, θdiff , ϕdiff, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
-trec_corr (GeV2)

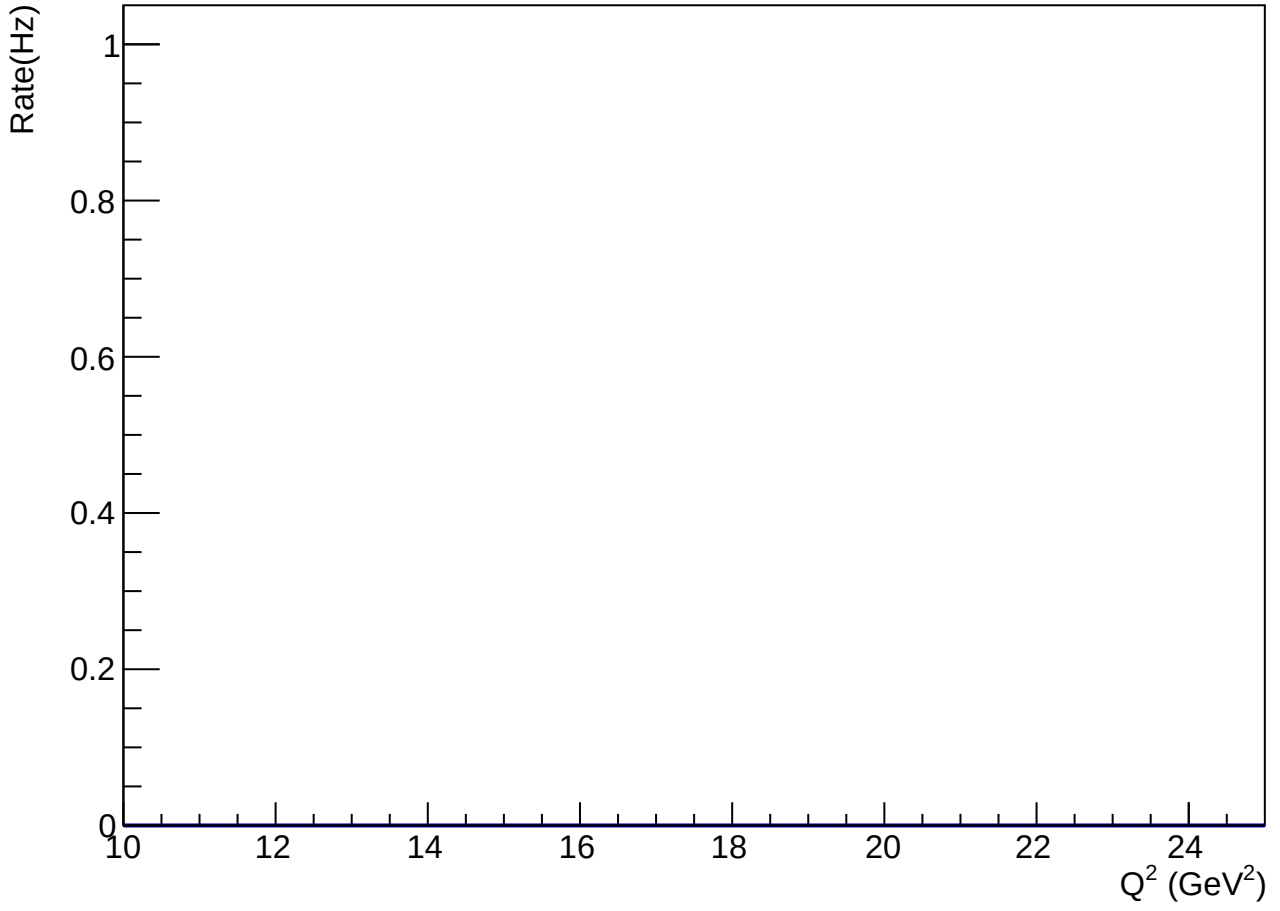

-t dist w/ 30.0 < Q2 < 35.0, -t, θdiff , ϕdiff, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
-trec_corr (GeV2)

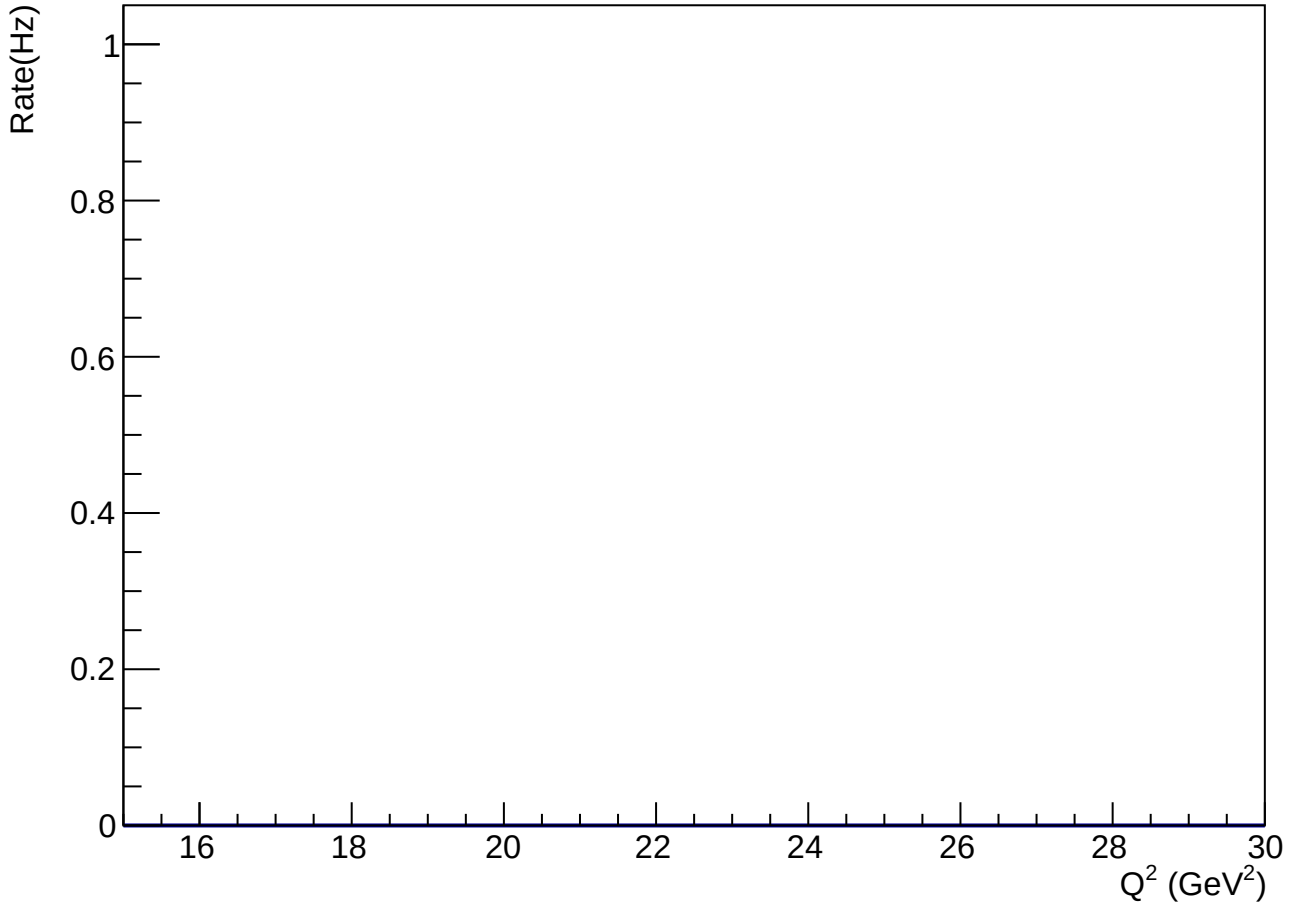

Q^2 dist w/ 5.0 < Q^2 < 35.0, -t, θ_{diff} , ϕ_{diff}, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
5
10
15
20
25
30
35
Q^2 (GeV^2)

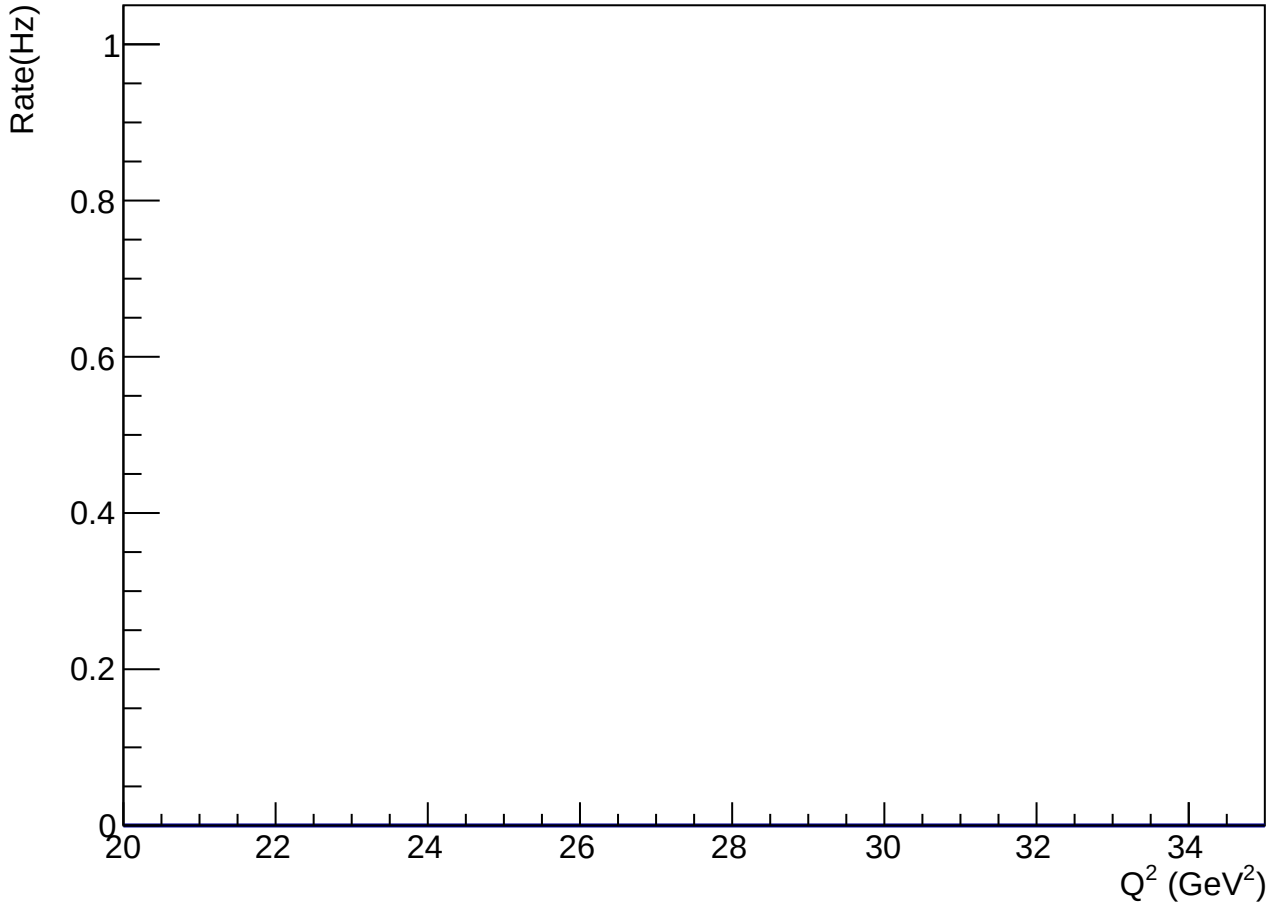

Q^2 dist w/ $5.0 < Q^2 < 7.5$, -t, θ_{diff} , ϕ_{diff}, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
12
Q^2 (GeV^2)

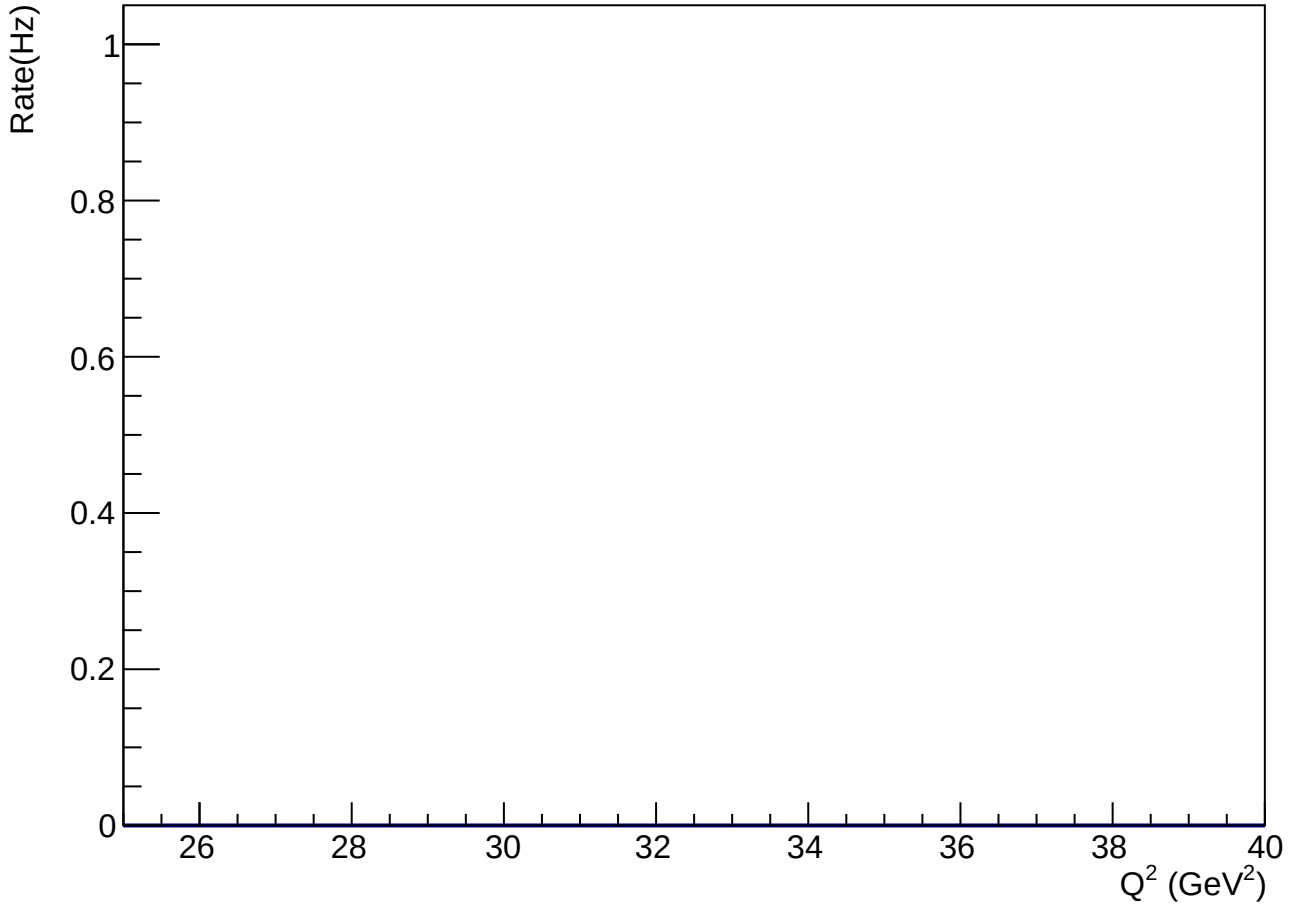

Q^2 dist w/ 7.5 < Q^2 < 10.0, -t, θ_{diff} , ϕ_{diff}, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
4
6
8
10
12
14
Q^2 (GeV^2)

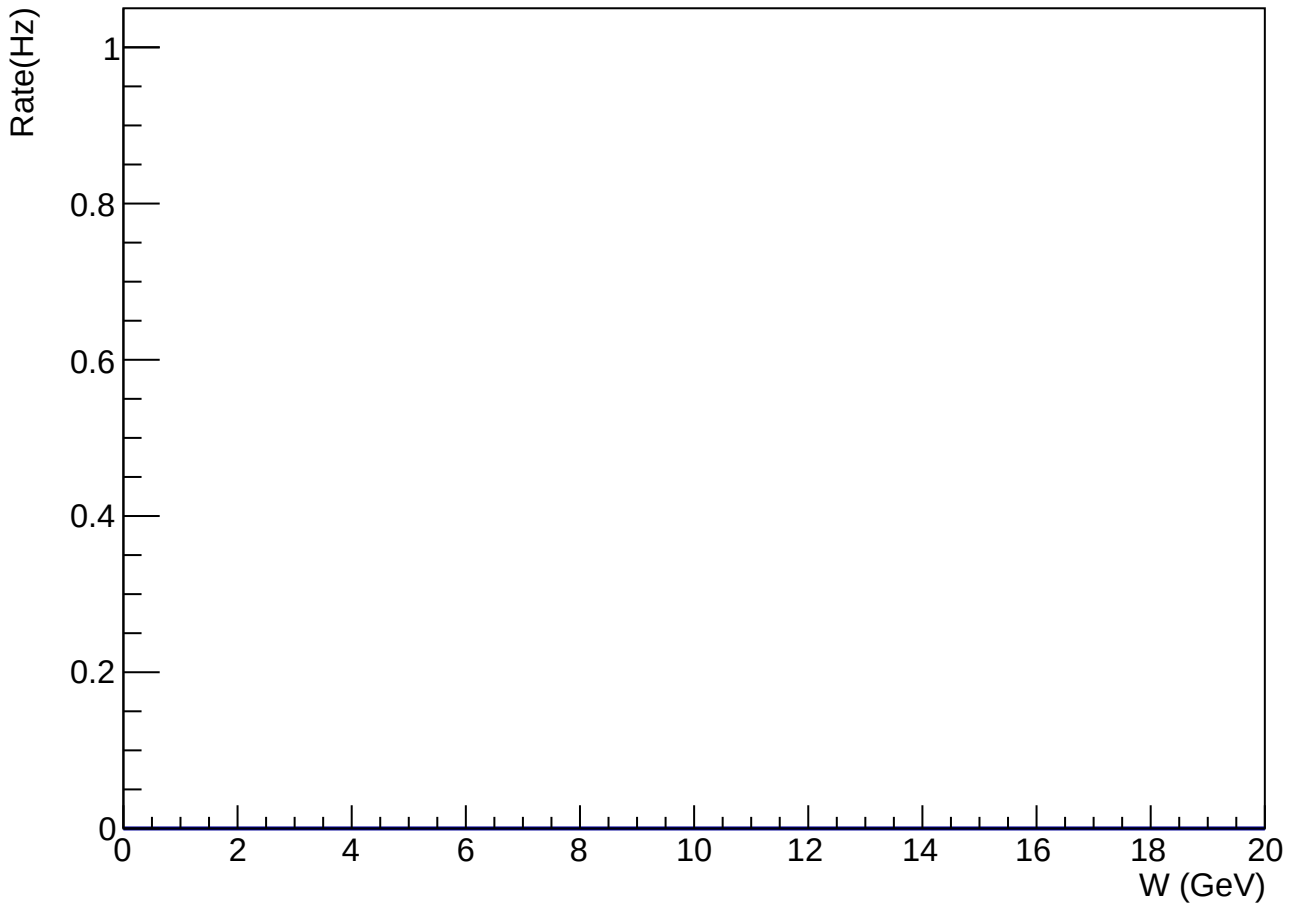

Q^2 dist w/ 10.0 < Q^2 < 15.0, -t, θ_{diff} , ϕ_{diff}, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
6
8
10
12
14
16
18
20
Q^2 (GeV^2)

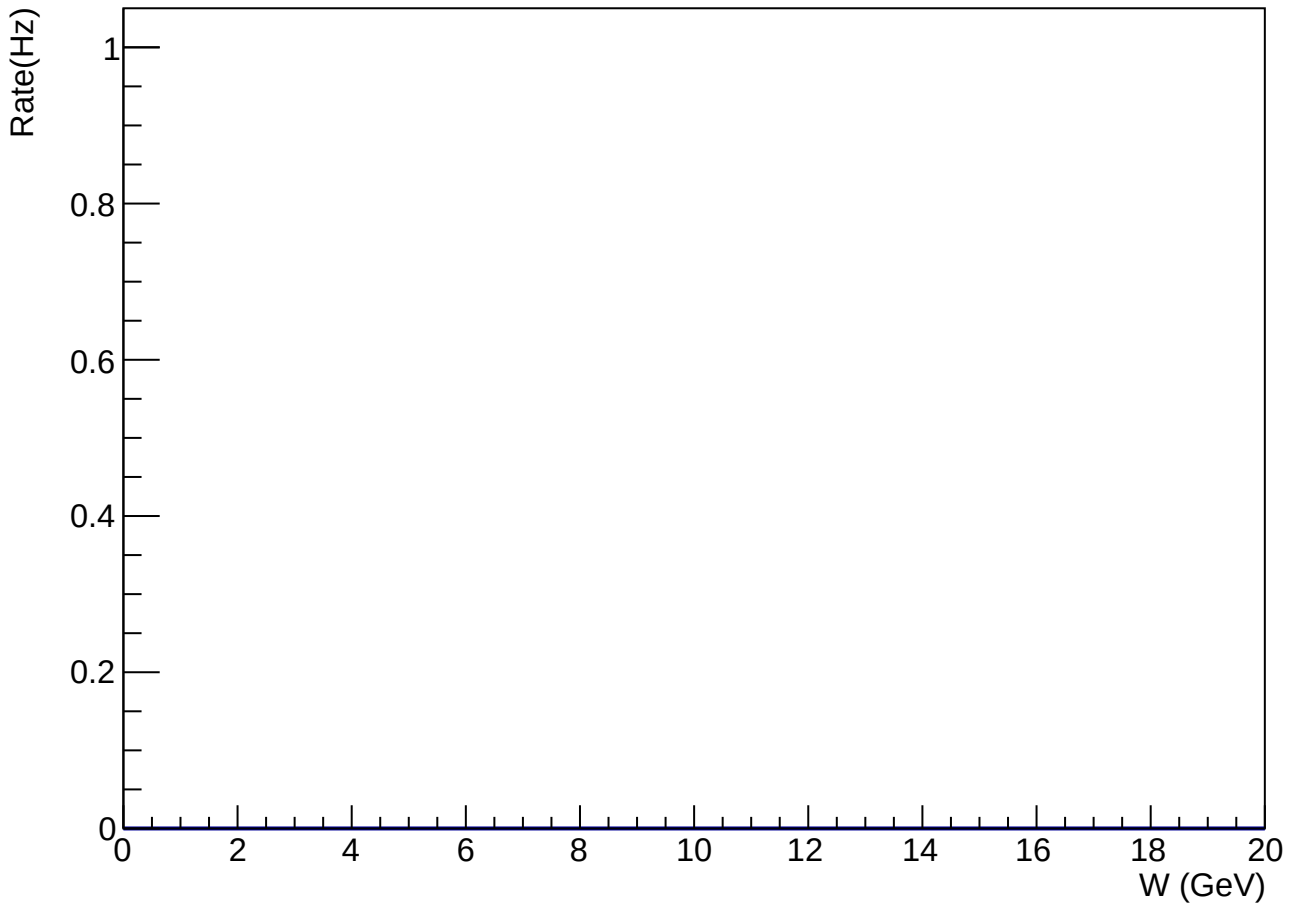

Q^2 dist w/ 15.0 < Q^2 < 20.0, -t, θ_{diff} , ϕ_{diff}, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
10
12
14
16
18
20
22
24
Q^2 (GeV^2)

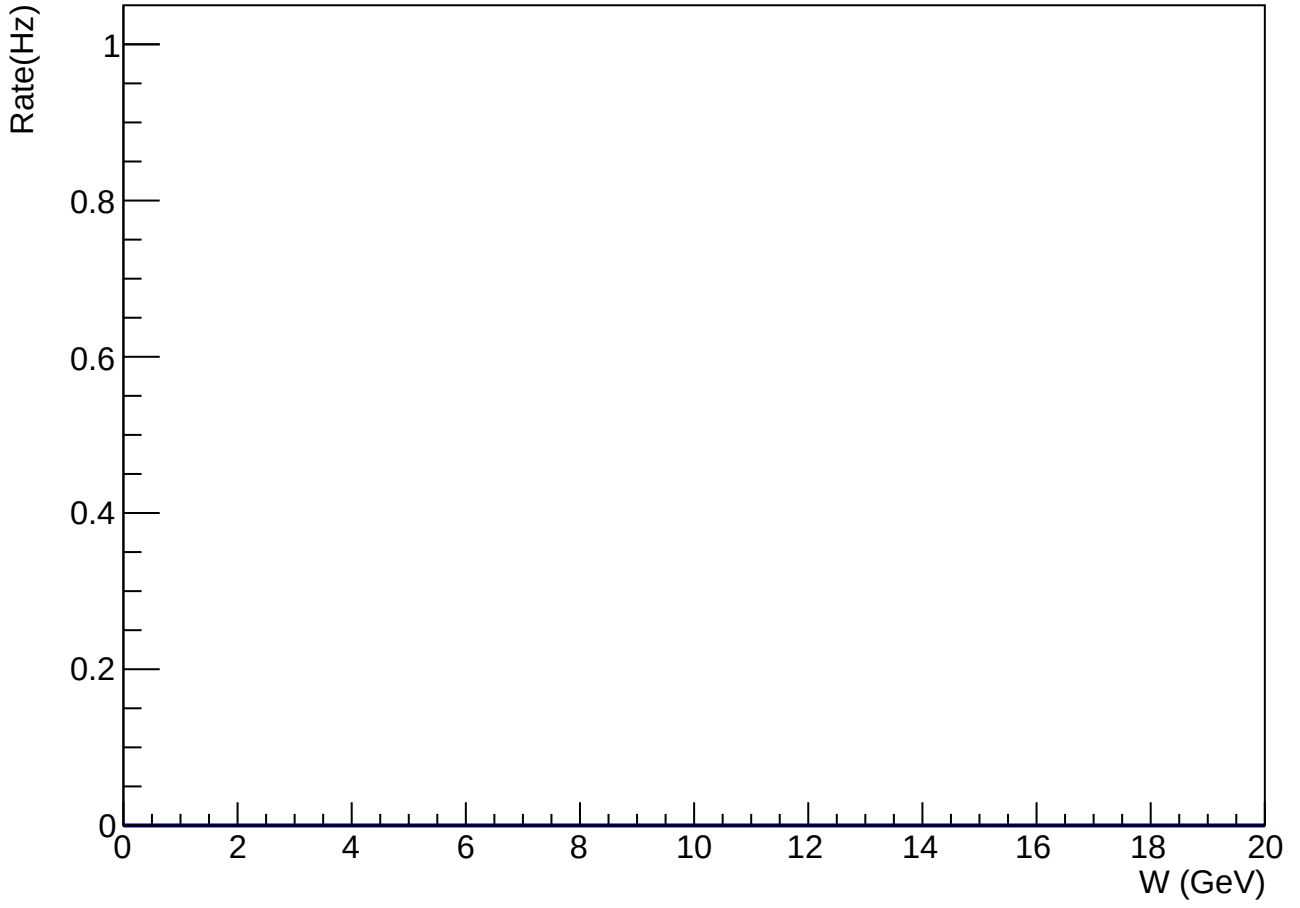

Q^2 dist w/ $20.0 < Q^2 < 25.0$, -t, θ_{diff} , ϕ_{diff}, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
16
18
20
22
24
26
28
30
Q^2 (GeV^2)

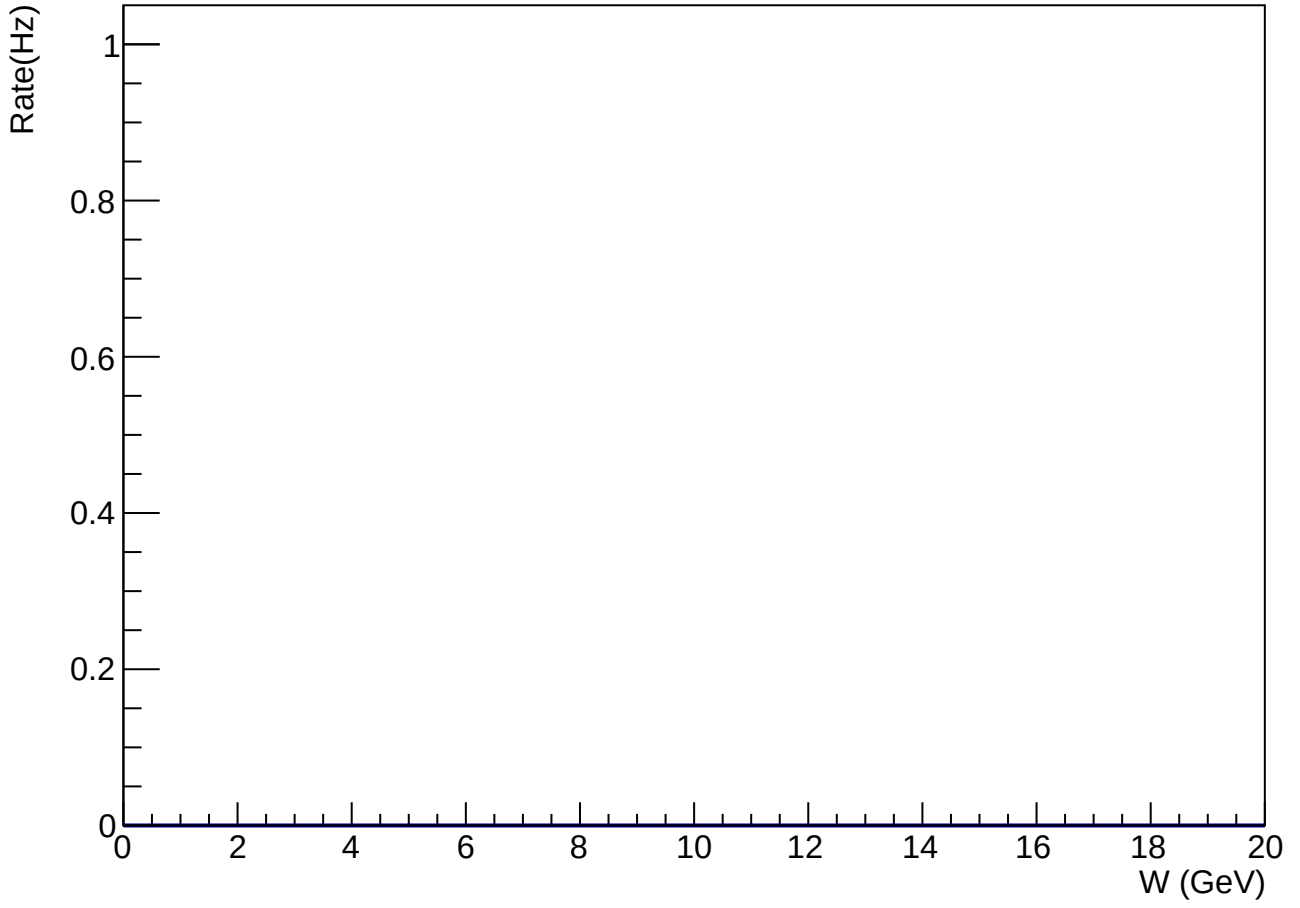

Q^2 dist w/ 25.0 < Q^2 < 30.0, -t, θ_{diff} , ϕ_{diff}, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
20
22
24
26
28
30
32
34
Q^2 (GeV^2)

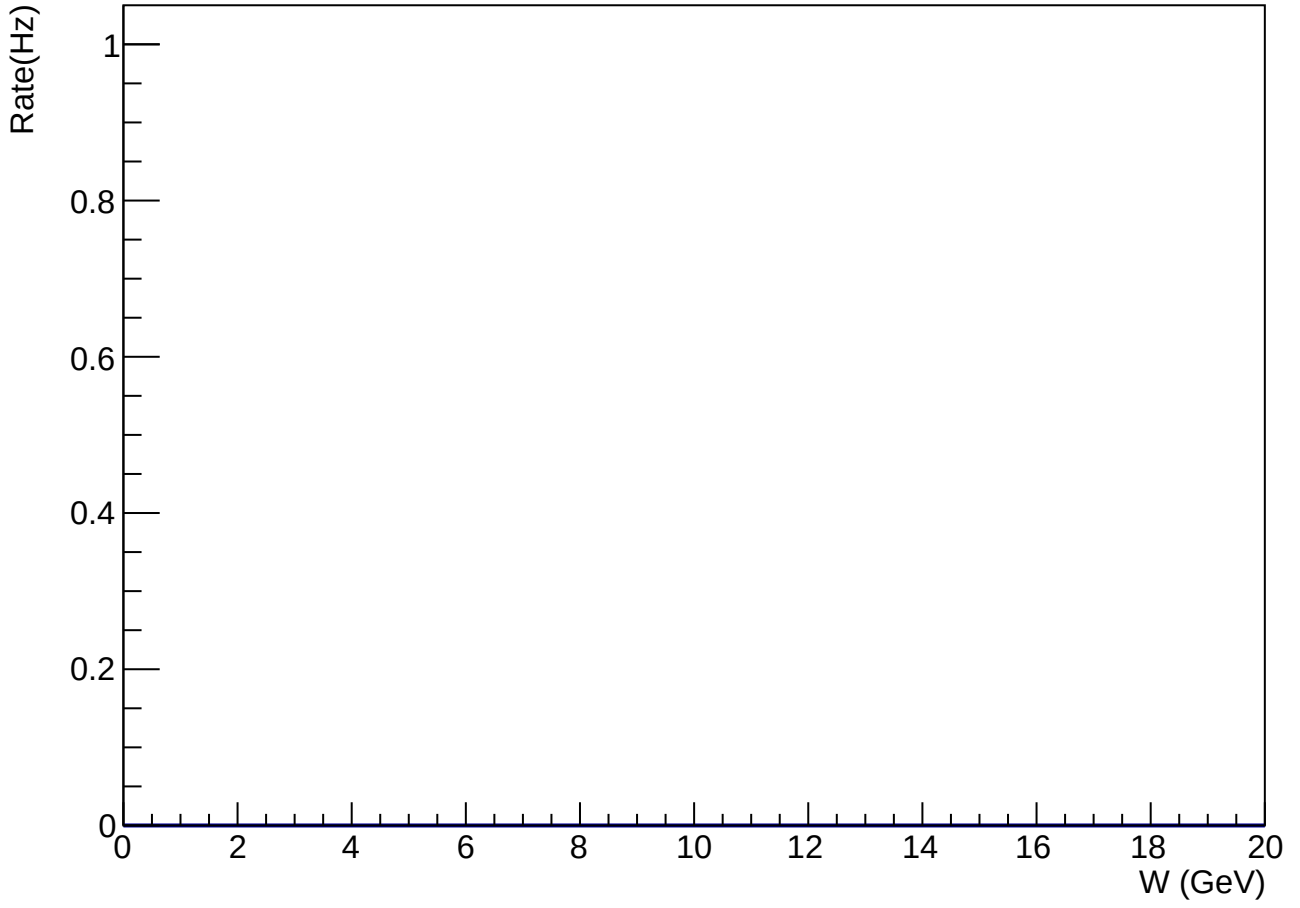

Q^2 dist w/ 30.0 < Q^2 < 35.0, -t, θ_{diff} , ϕ_{diff}, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
26
28
30
32
34
36
38
40
Q^2 (GeV^2)

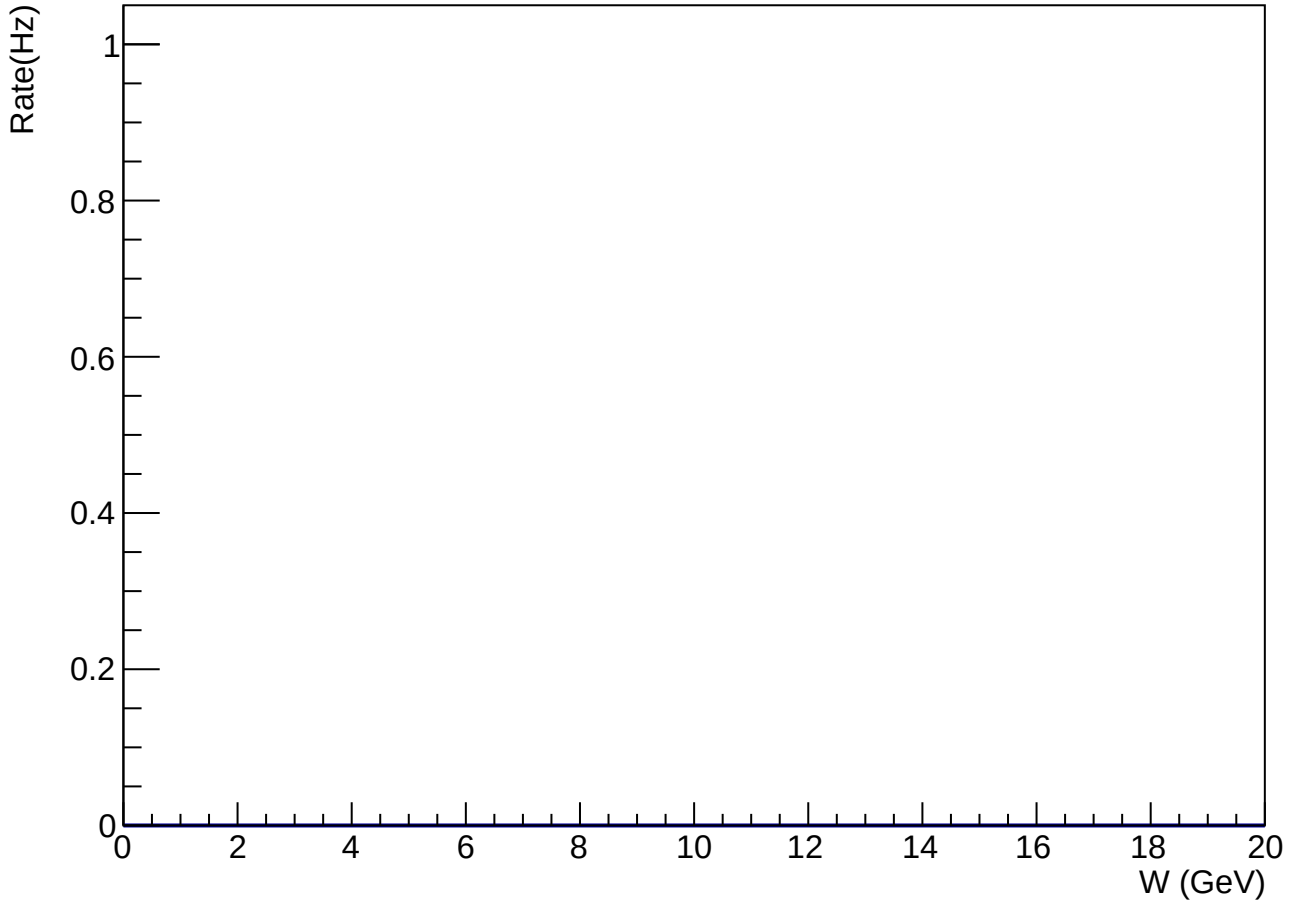

W dist w/ 5.0 < Q2 < 35.0, -t, θdiff , ϕdiff, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
12
14
16
18
20
W (GeV)

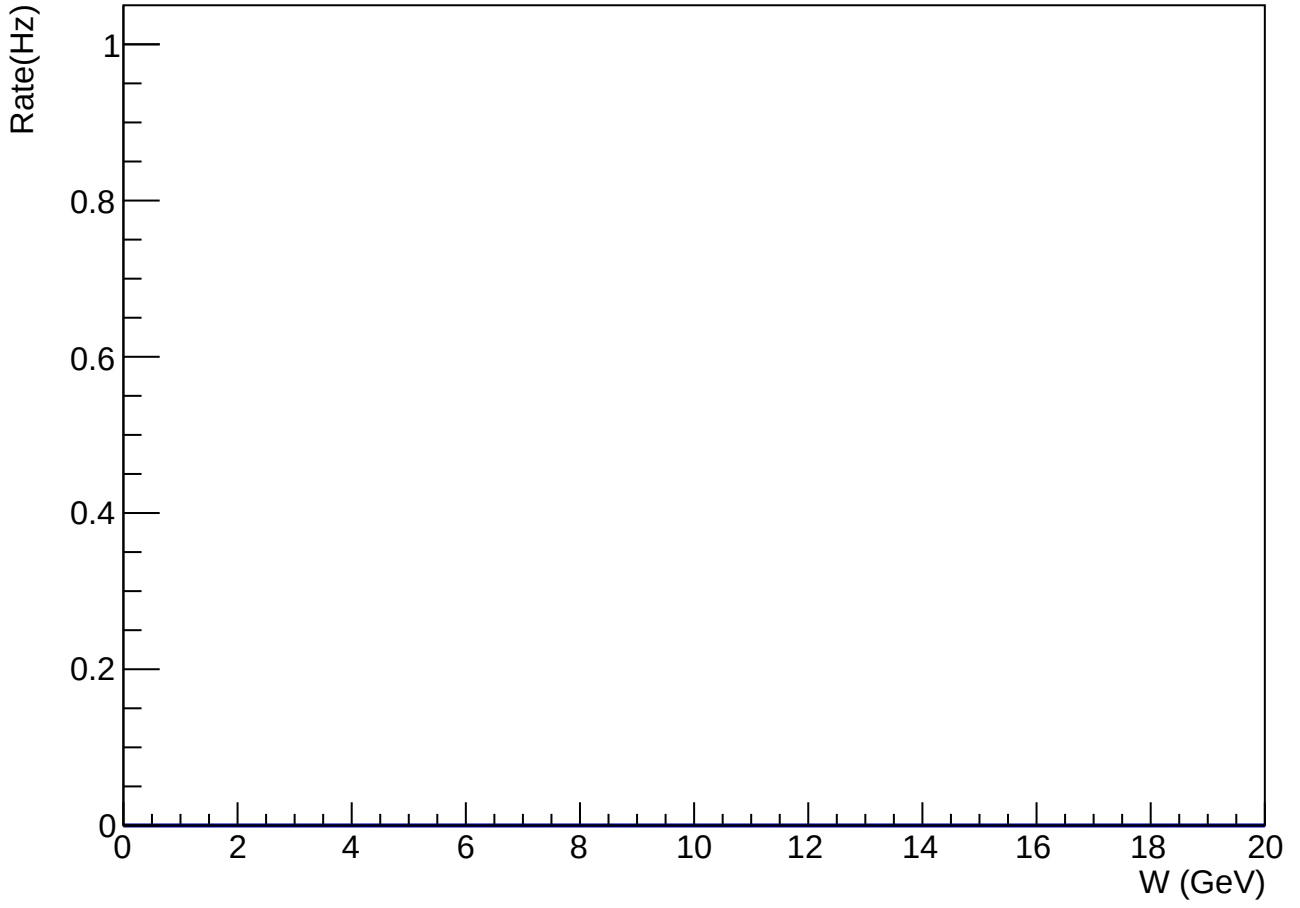

W dist w/ 5.0 < Q2 < 7.5, -t, θdiff , ϕdiff, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
12
14
16
18
20
W (GeV)

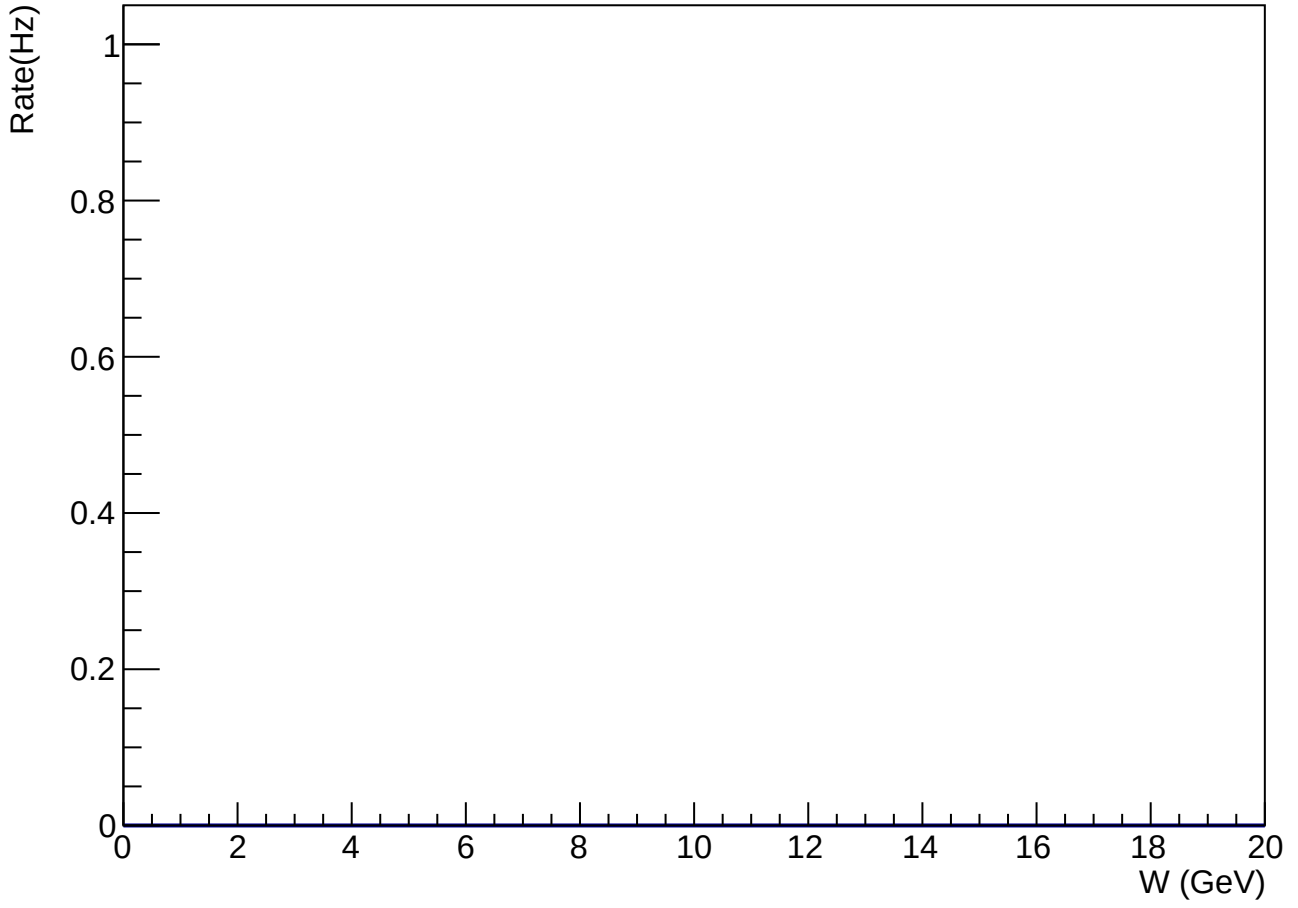

W dist w/ 7.5 < Q2 < 10.0, -t, θdiff , ϕdiff, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
12
14
16
18
20
W (GeV)

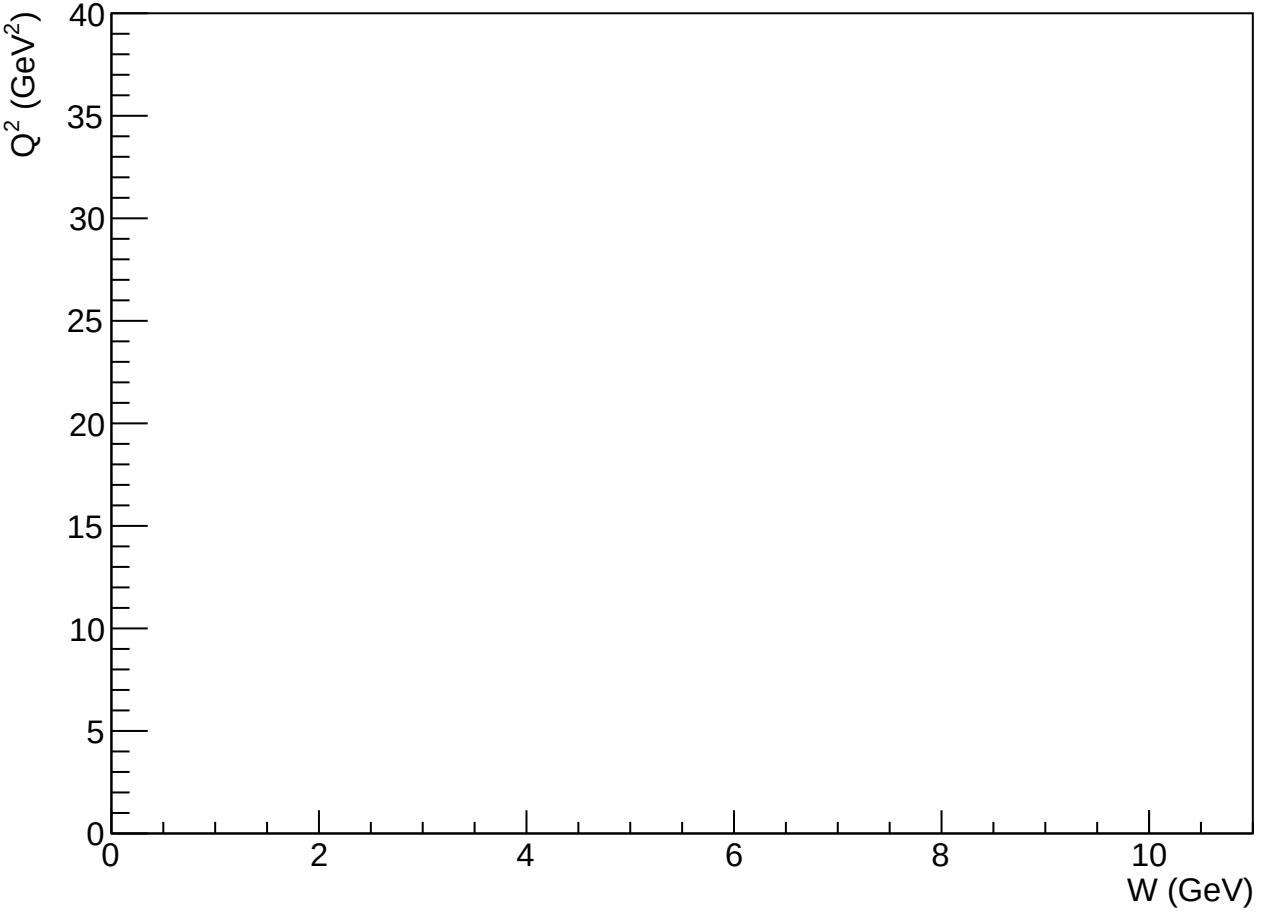

W dist w/ 10.0 < Q2 < 15.0, -t, θdiff , ϕdiff, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
12
14
16
18
20
W (GeV)

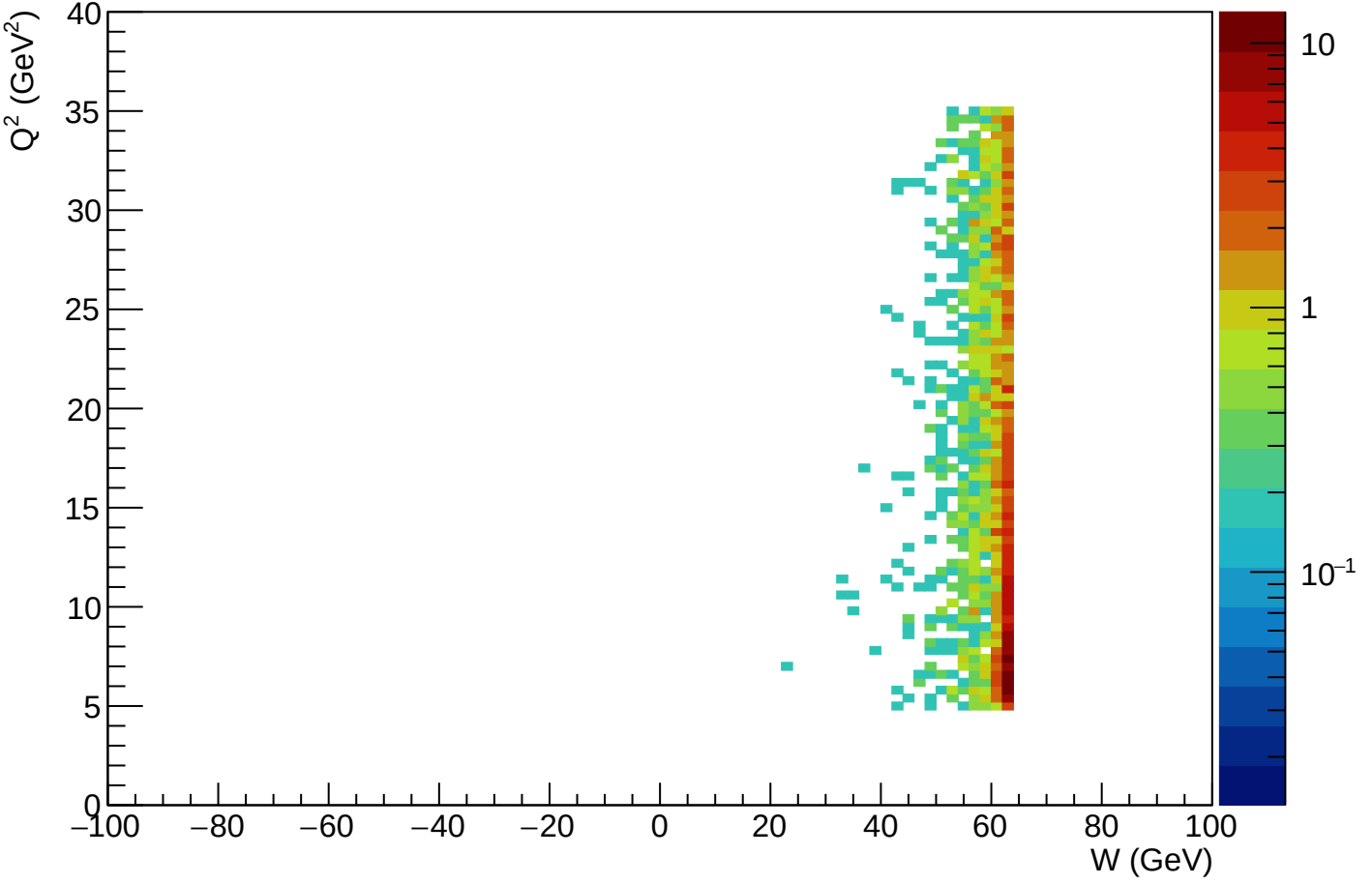

W dist w/ 15.0 < Q2 < 20.0, -t, θdiff , ϕdiff, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
12
14
16
18
20
W (GeV)

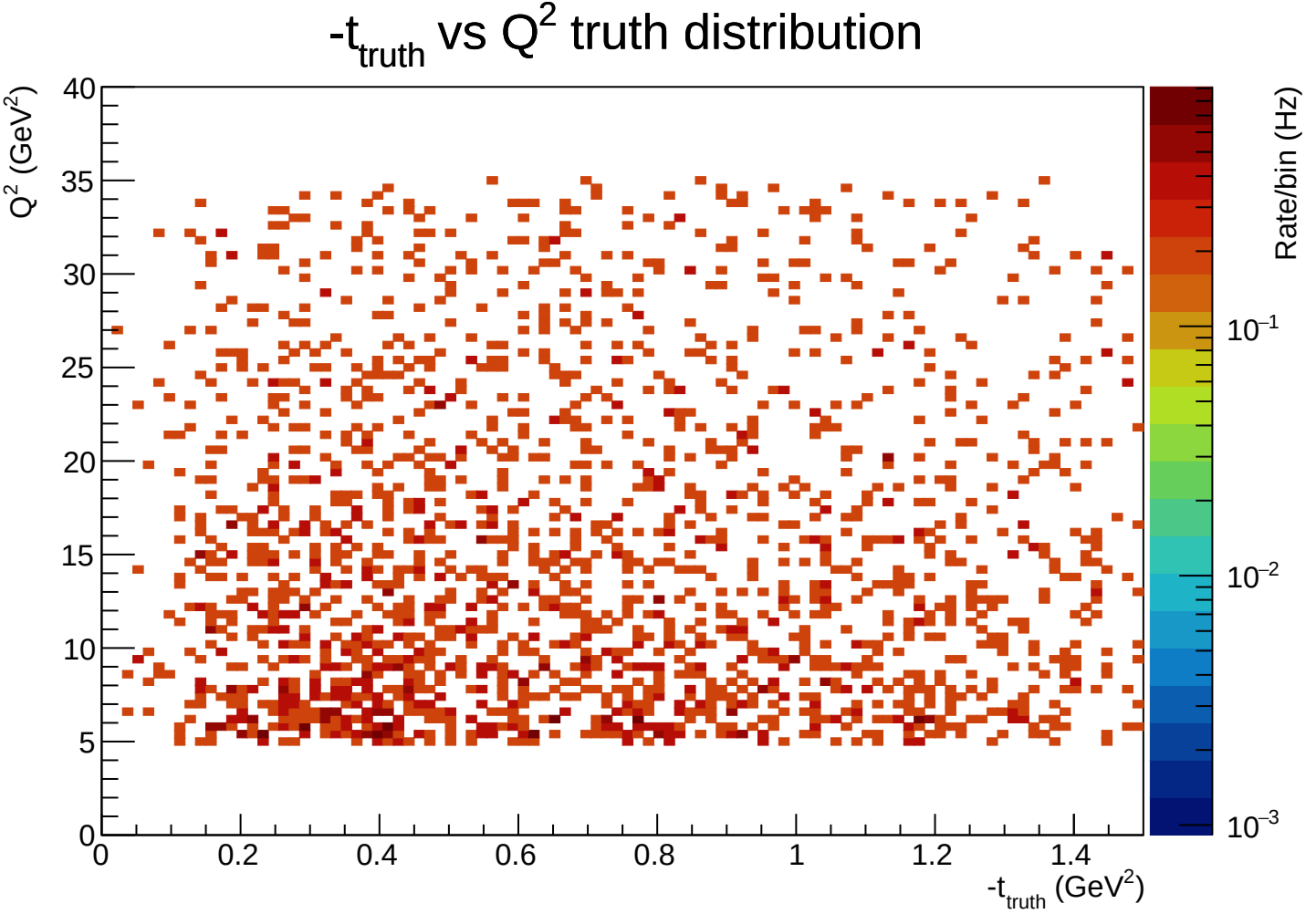

W dist w/ 20.0 < Q2 < 25.0, -t, θdiff , ϕdiff, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
12
14
16
18
20
W (GeV)

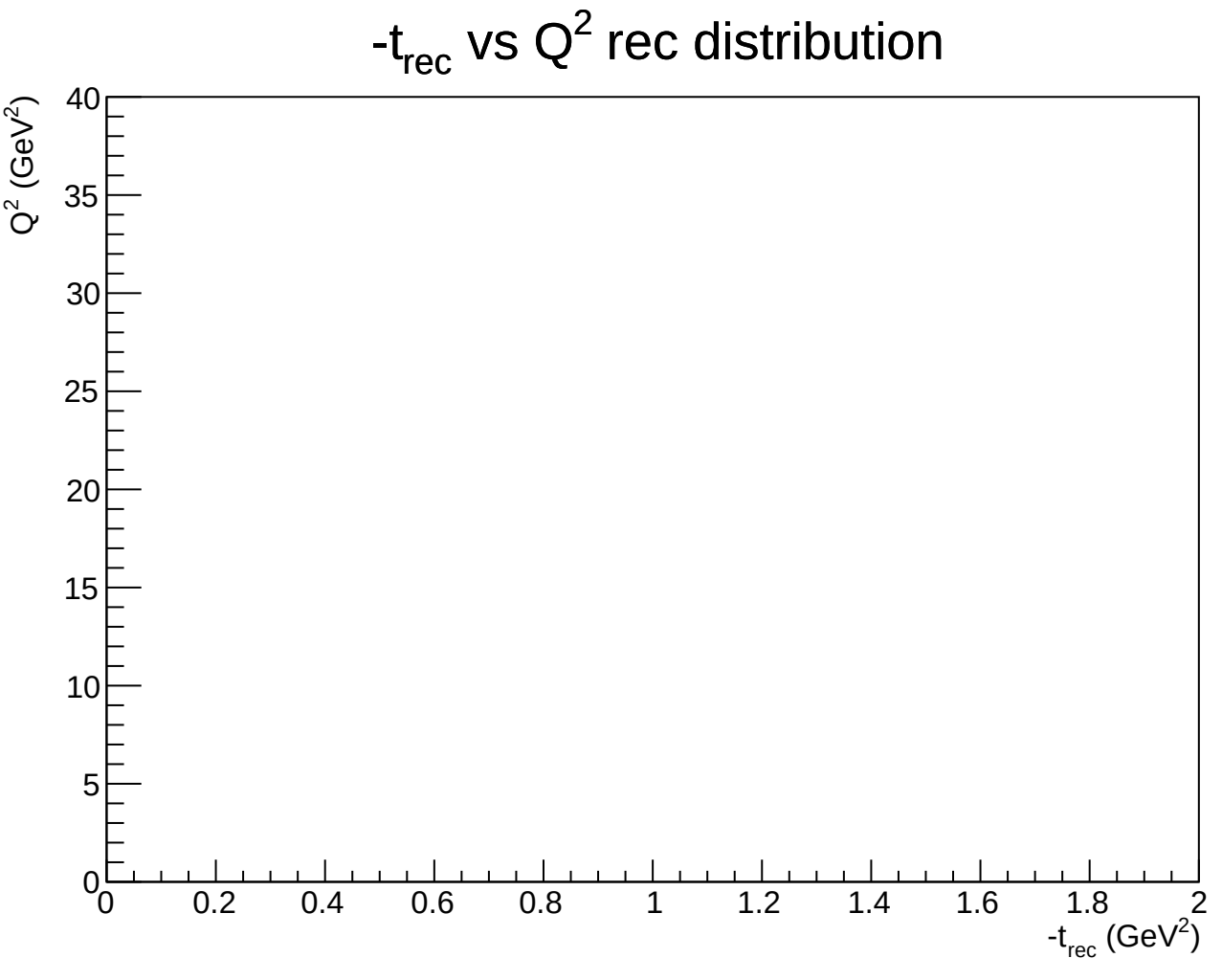

W dist w/ 25.0 < Q2 < 30.0, -t, θdiff , ϕdiff, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
12
14
16
18
20
W (GeV)

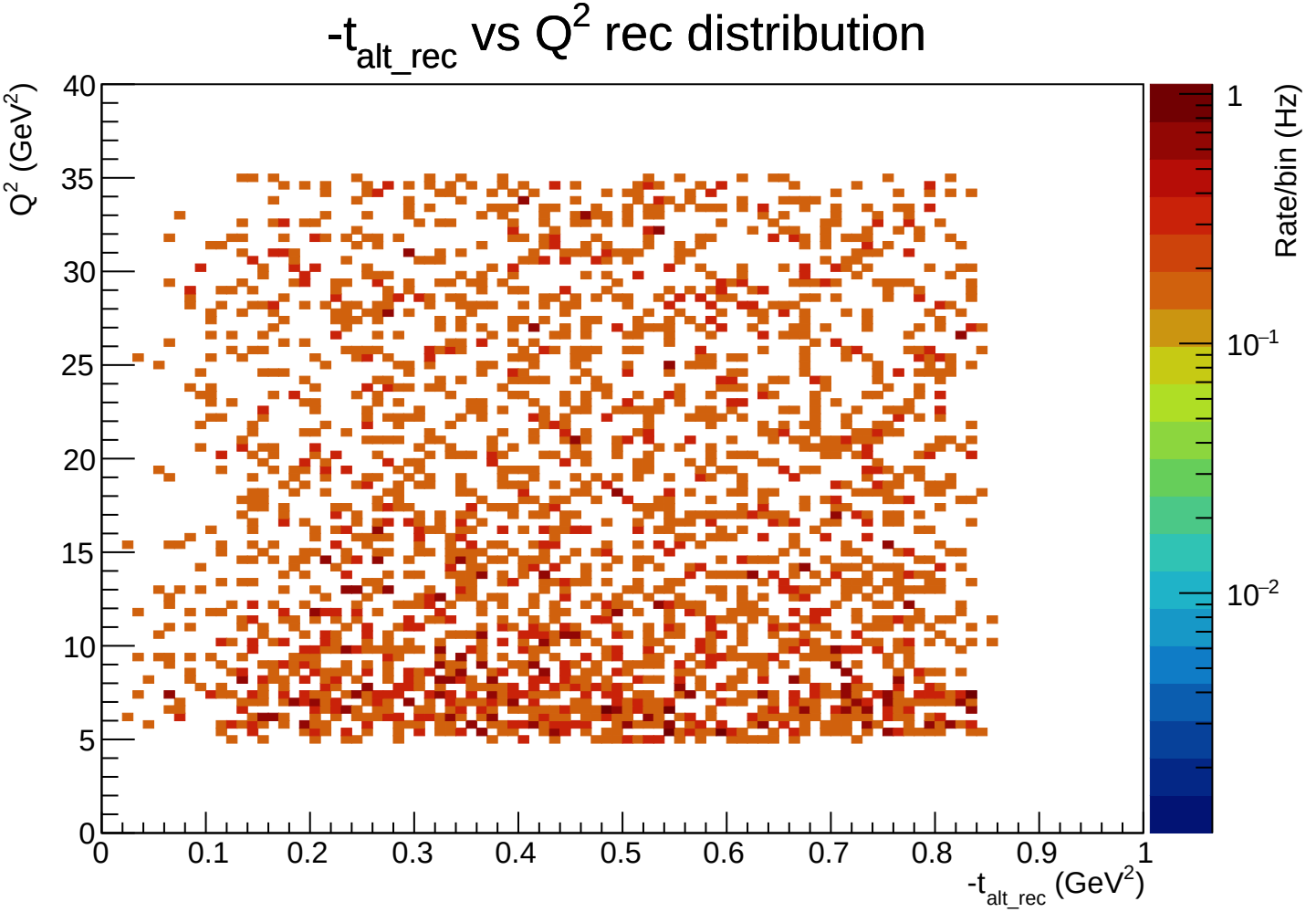

W dist w/ 30.0 < Q2 < 35.0, -t, θdiff , ϕdiff, W cuts
Rate(Hz)
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
12
14
16
18
20
W (GeV)

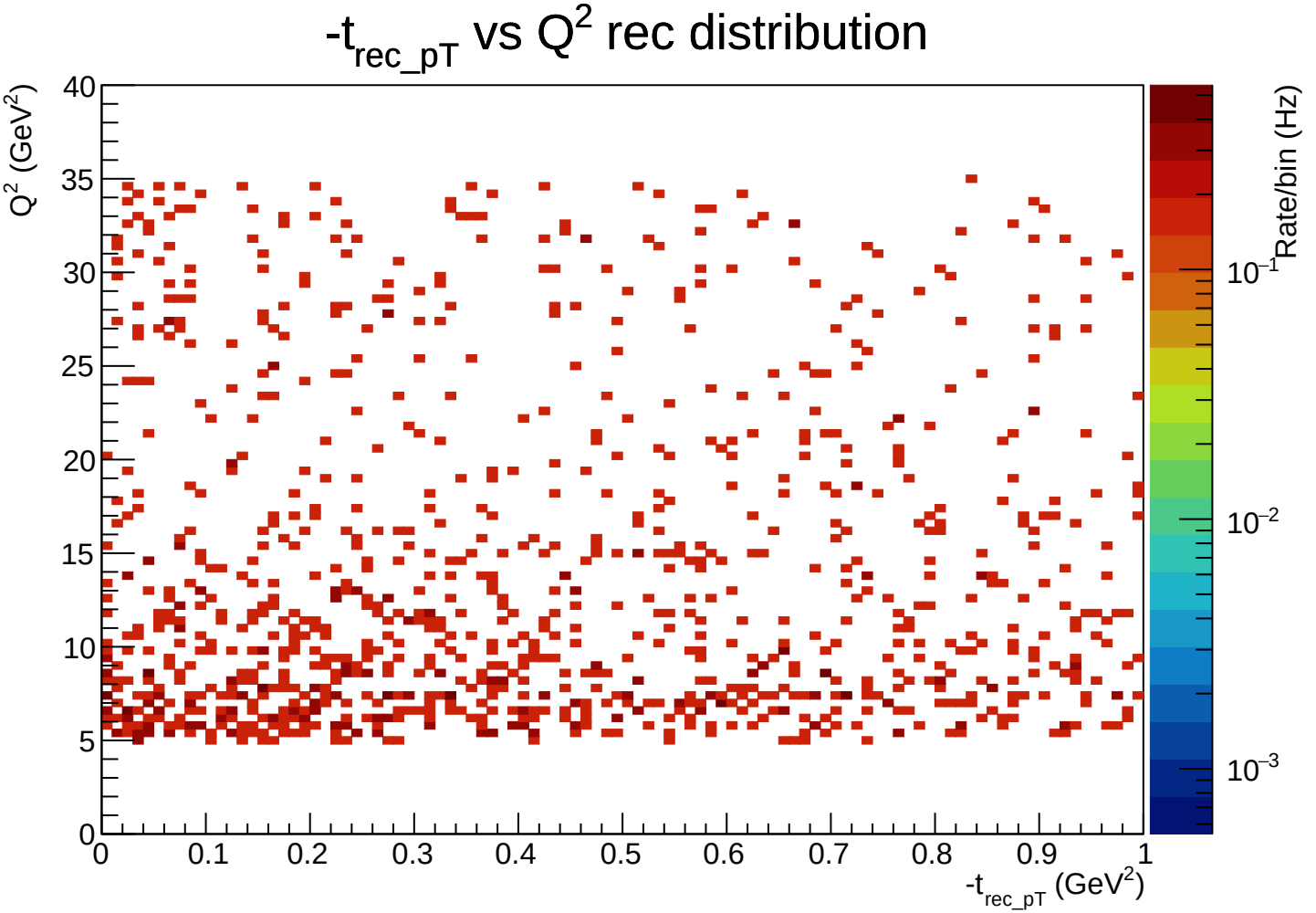

W vs Q2 truth distribution
Q2 (GeV2)
40
35
30
25
20
15
10
5
0
0
2
4
6
8
10
W (GeV)

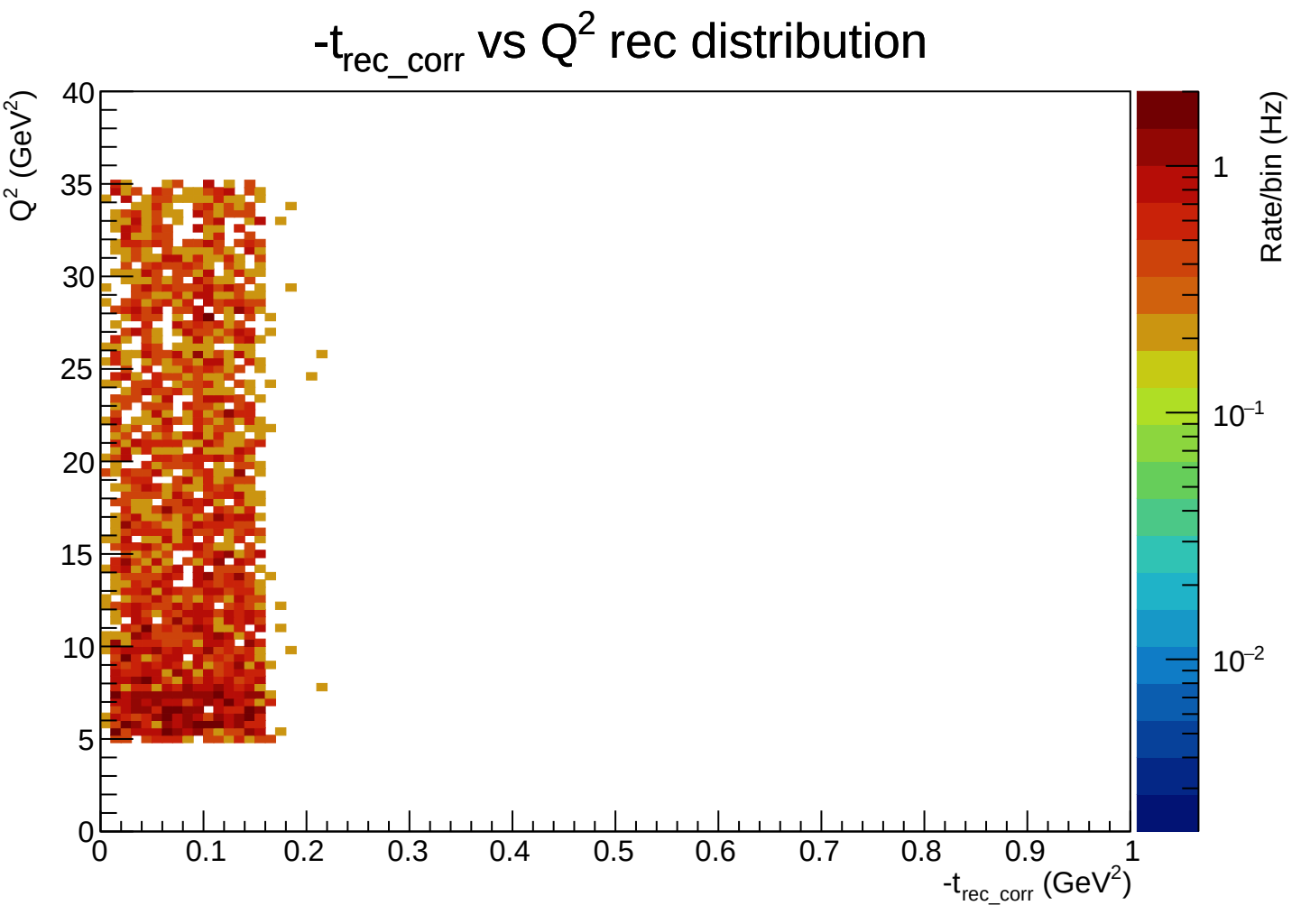

W vs Q2 rec distribution
Q2 (GeV2)
40
35
30
25
20
15
10
5
0
−100
−80
−60
−40
−20
0
20
40
60
80
100
W (GeV)
10
1
10−1

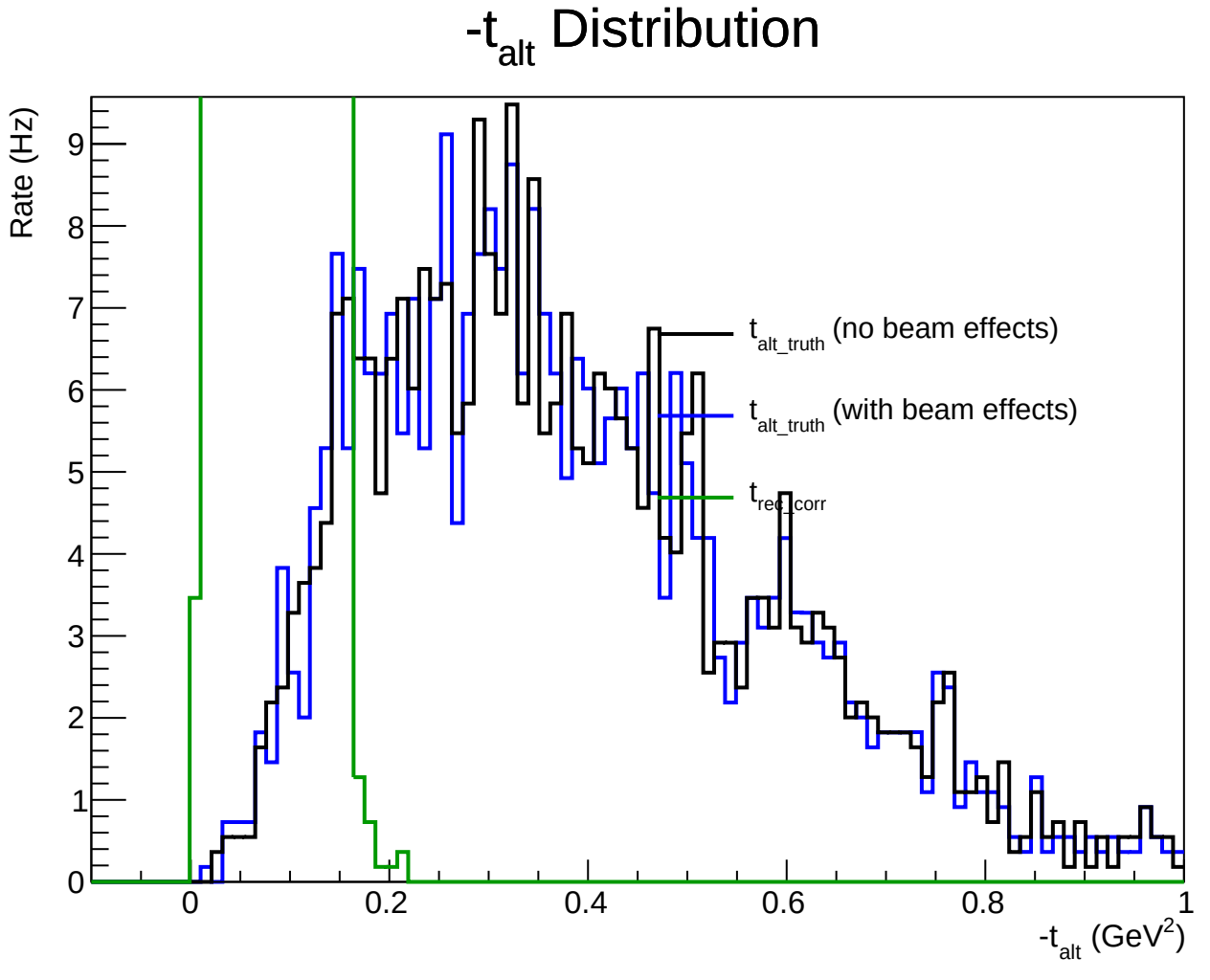

-t_truth vs Q^2 truth distribution
Q^2 (GeV^2)
40
35
30
25
20
15
10
5
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
-t_truth (GeV^2)
Rate/bin (Hz)
10^-1
10^-2
10^-3

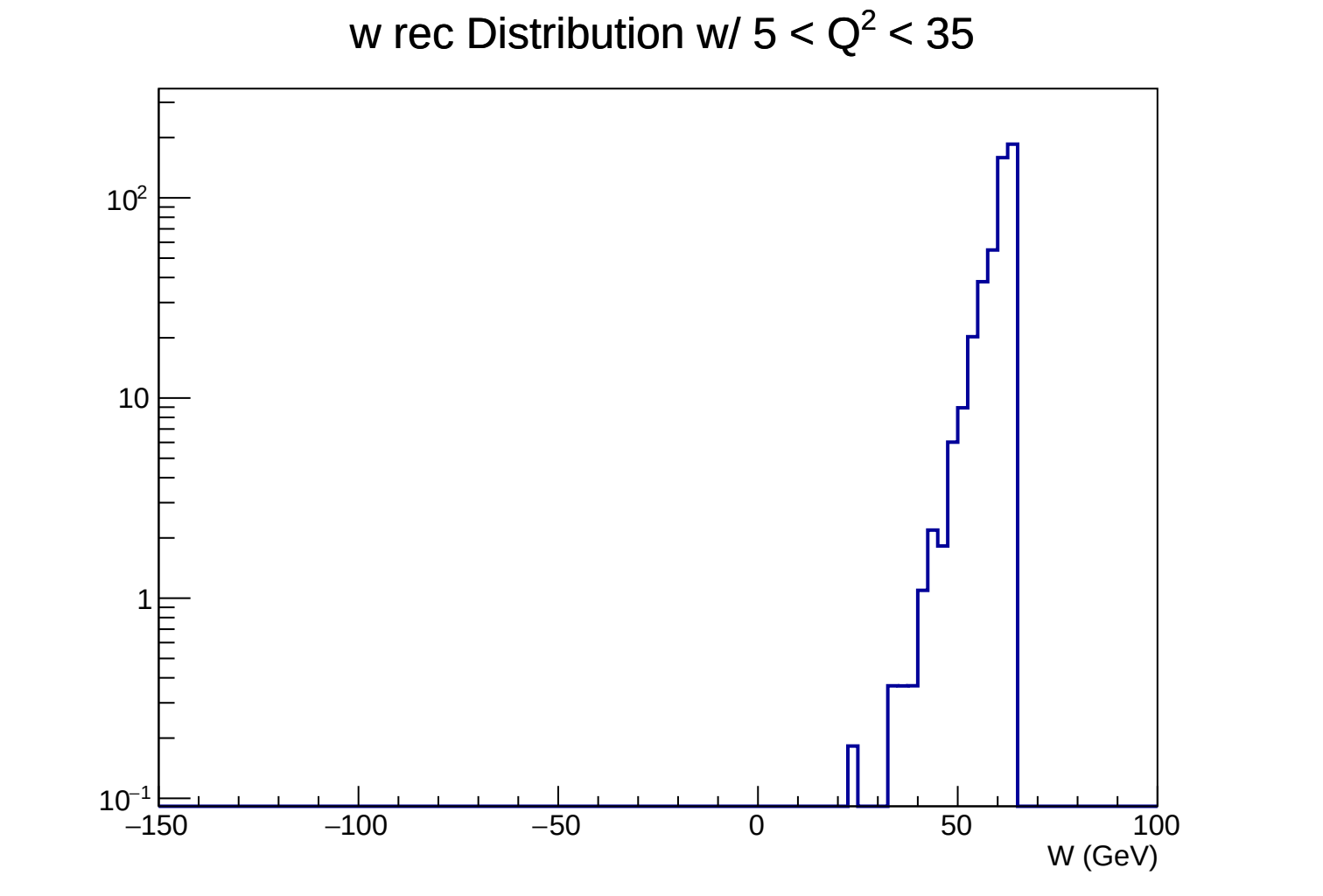

-t_rec vs Q^2 rec distribution
Q^2 (GeV^2)
40
35
30
25
20
15
10
5
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
-t_rec (GeV^2)


-t_alt_rec vs Q^2 rec distribution
Q^2 (GeV^2)
-t_alt_rec (GeV^2)
Rate/bin (Hz)
0
5
10
15
20
25
30
35
40
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1
10^-1
10^-2


-t_rec_pT vs Q^2 rec distribution
Q^2 (GeV^2)
40
35
30
25
20
15
10
5
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
-t_rec_pT (GeV^2)
Rate/bin (Hz)
10^-1
10^-2
10^-3


-t_rec_corr vs Q^2 rec distribution
Q^2 (GeV^2)
40
35
30
25
20
15
10
5
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
-t_rec_corr (GeV^2)
Rate/bin (Hz)
1
10^-1
10^-2


-t_alt Distribution
Rate (Hz)
0
1
2
3
4
5
6
7
8
9
0
0.2
0.4
0.6
0.8
1
-t_alt (GeV^2)
t_alt_truth (no beam effects)
t_alt_truth (with beam effects)
t_rec_corr


w rec Distribution w/ 5 < Q² < 35
10²
10
1
10⁻¹
−150
−100
−50
0
50
100
W (GeV)