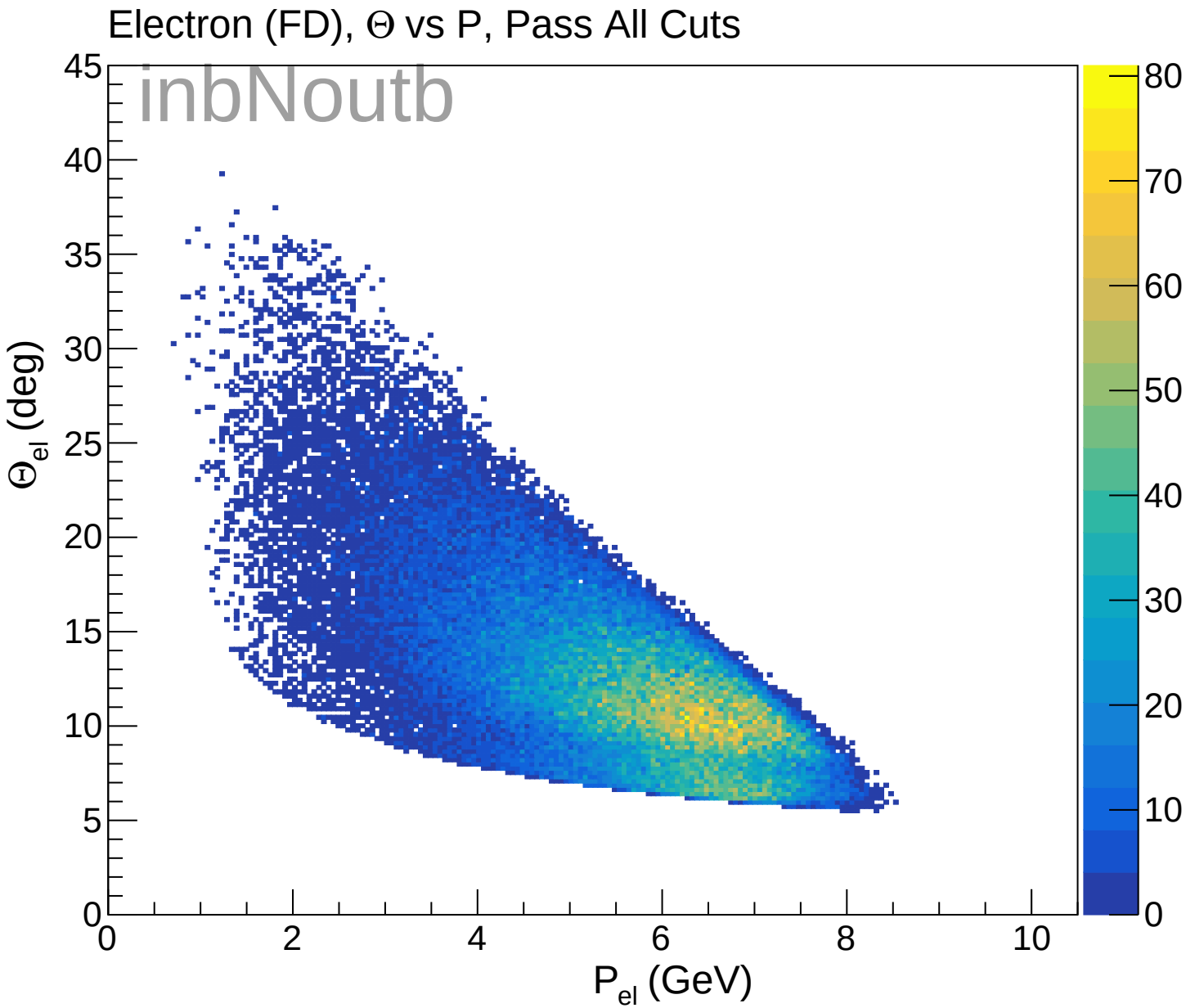
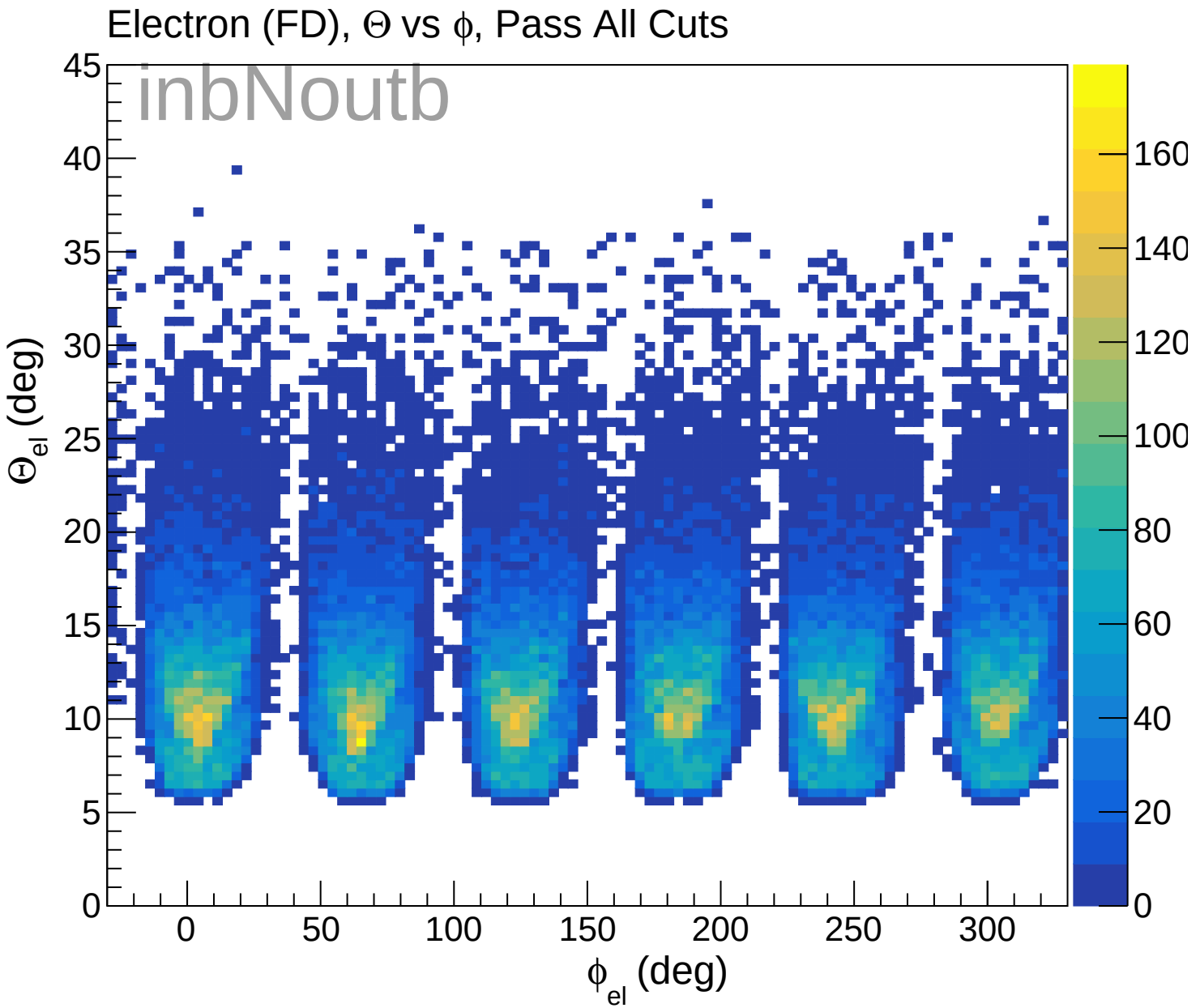
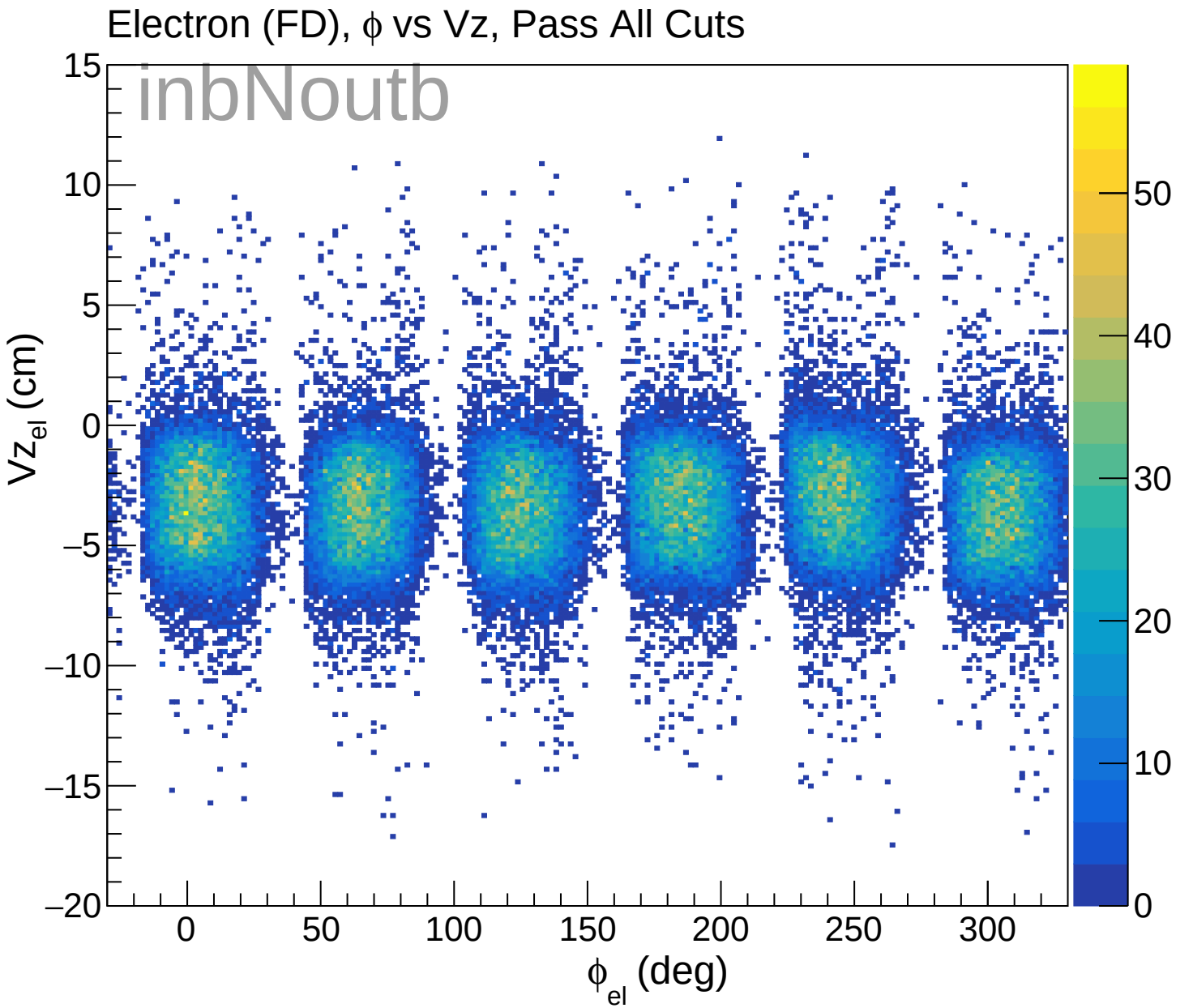
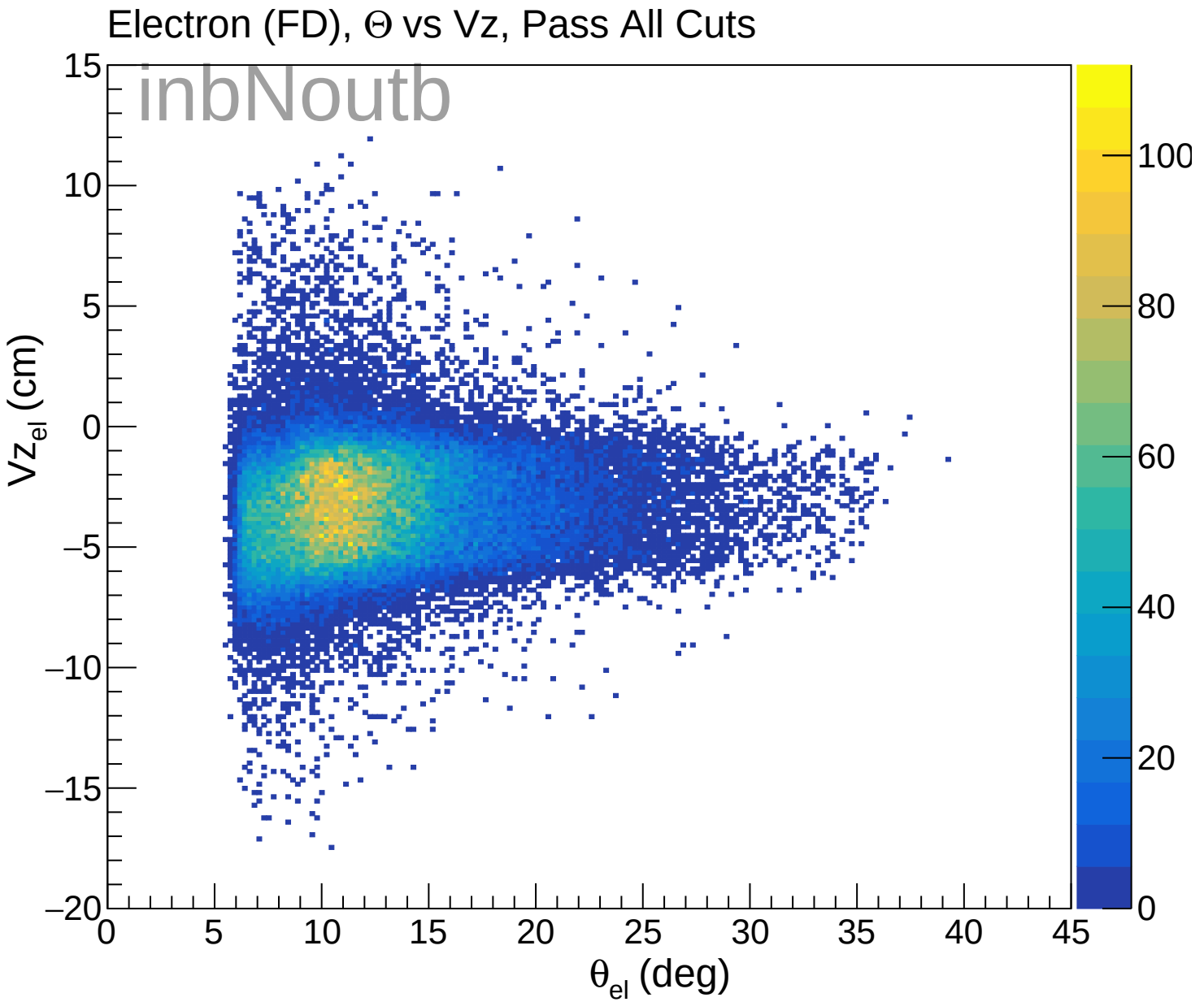
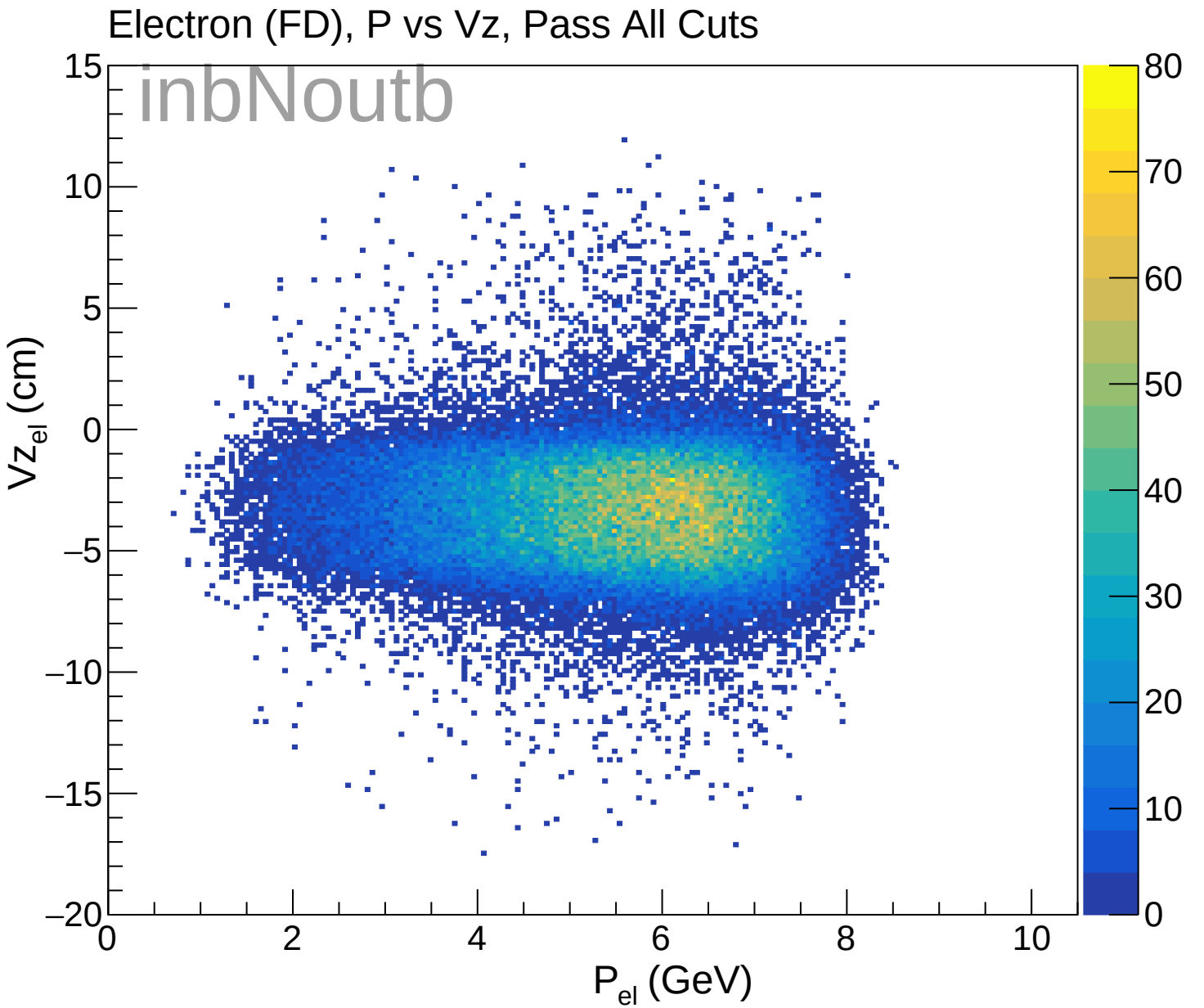
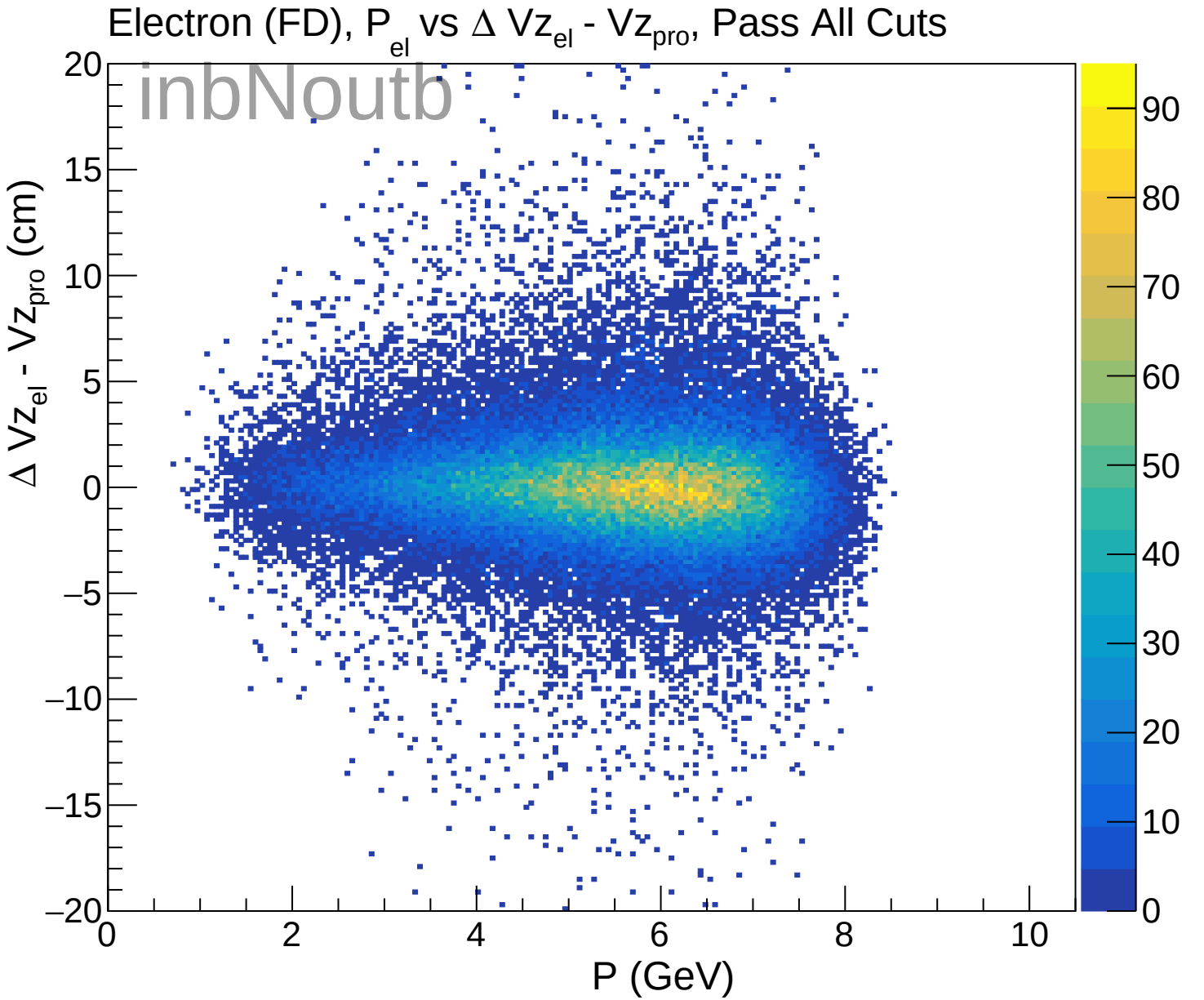

Electron (FD), Θ vs P, Pass All Cuts
inbNoutb
Θ_{el} (deg)
P_{el} (GeV)
0
5
10
15
20
25
30
35
40
45
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80

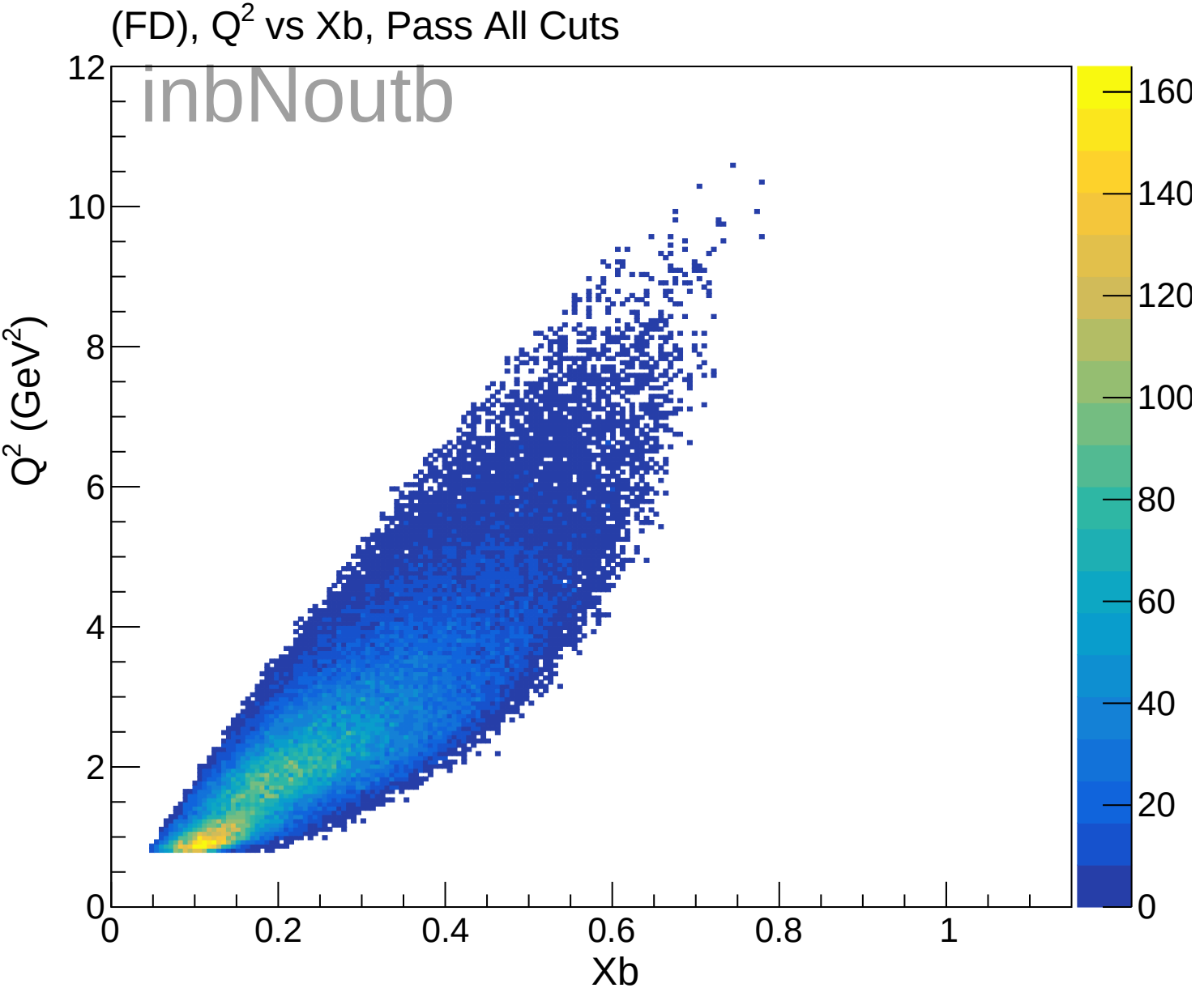

Electron (FD), Θ vs ϕ, Pass All Cuts
inbNoutb
45
40
35
30
25
20
15
10
5
0
Θel (deg)
0
50
100
150
200
250
300
ϕel (deg)
160
140
120
100
80
60
40
20
0

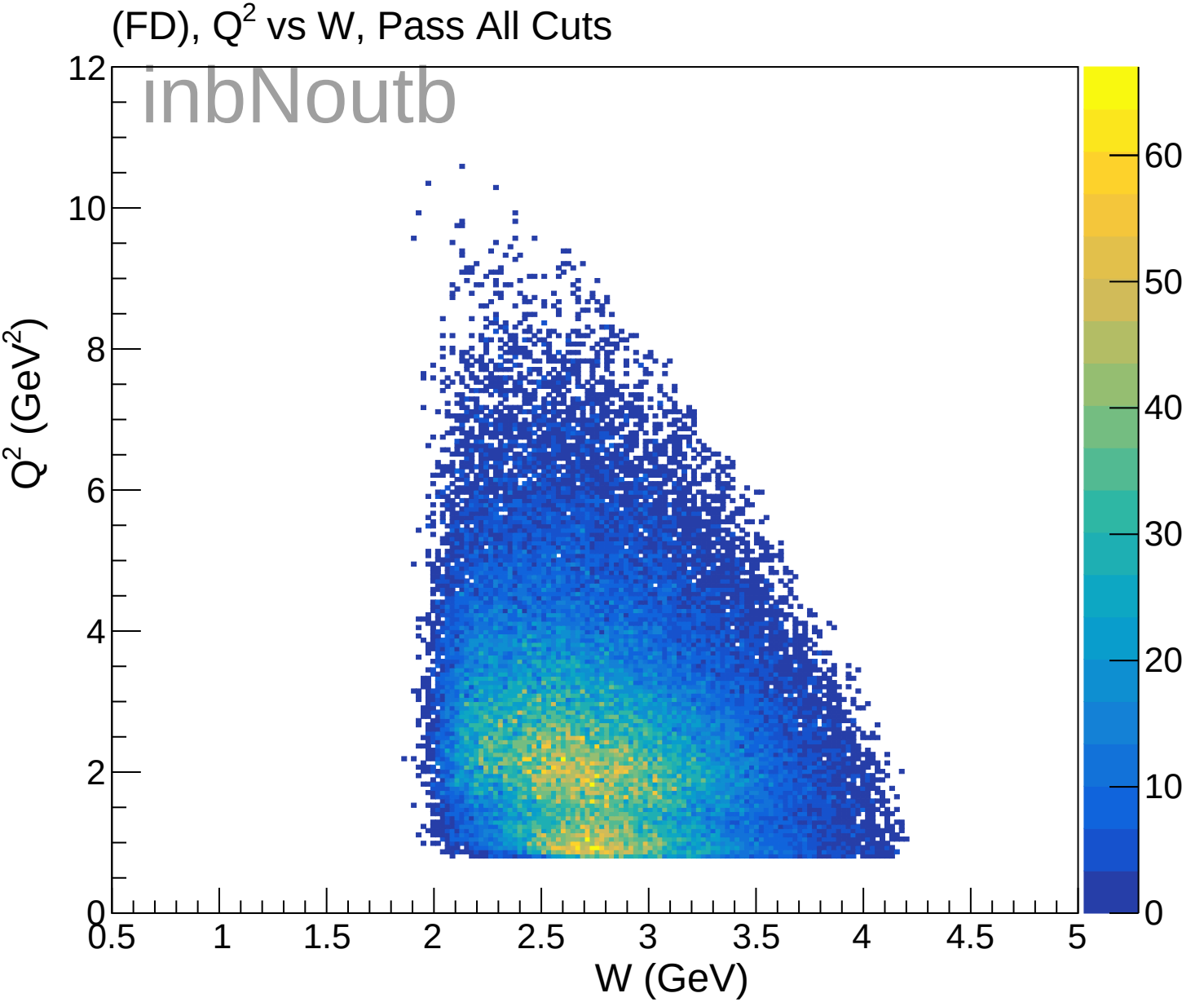

Electron (FD), ϕ vs Vz, Pass All Cuts
inbNoutb
15
10
5
0
−5
−10
−15
−20
Vz_el (cm)
0
50
100
150
200
250
300
ϕ_el (deg)
50
40
30
20
10
0

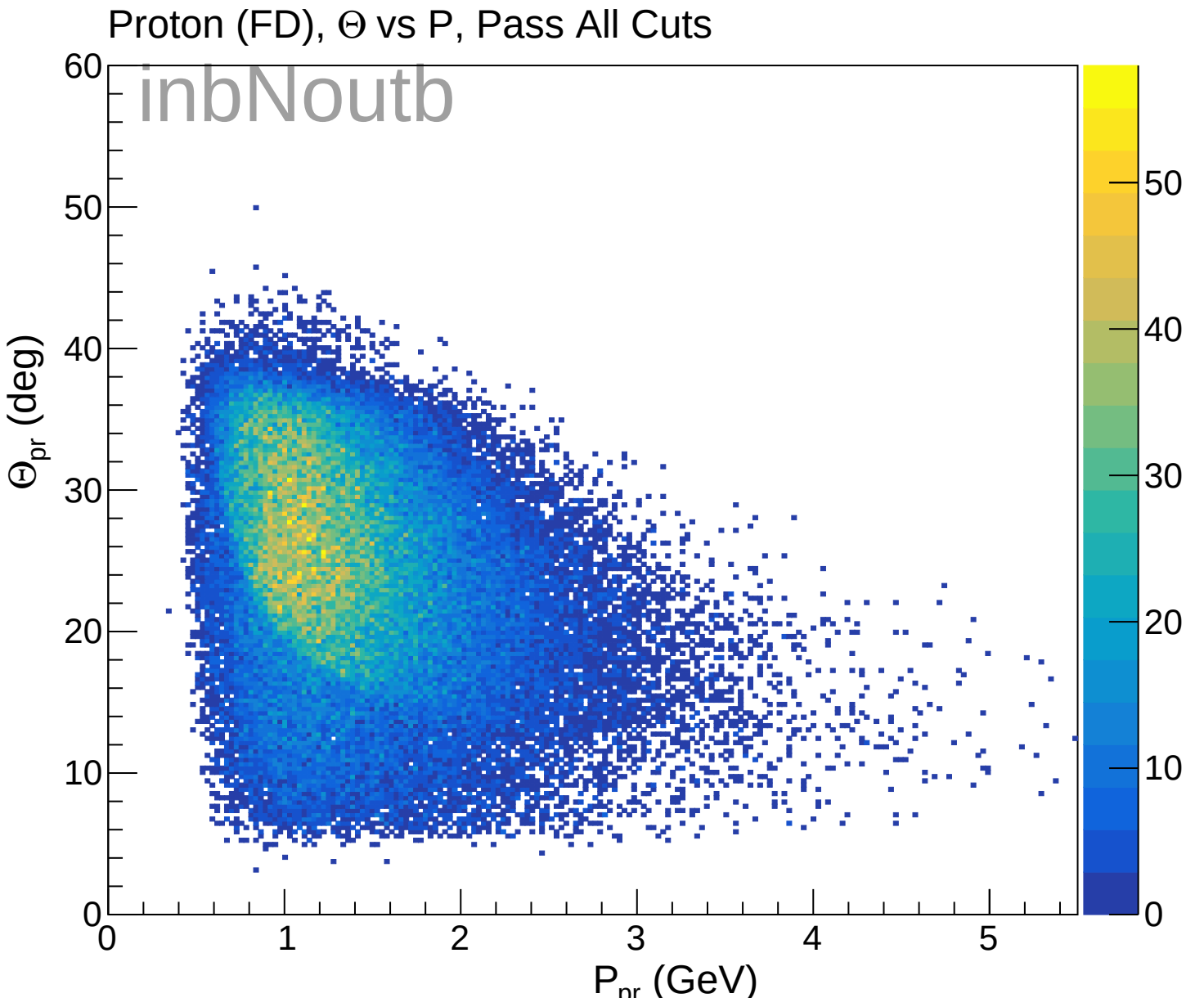

Electron (FD), Θ vs Vz, Pass All Cuts
inbNoutb
15
10
5
0
−5
−10
−15
−20
Vz_{el} (cm)
0
5
10
15
20
25
30
35
40
45
θ_{el} (deg)
100
80
60
40
20
0

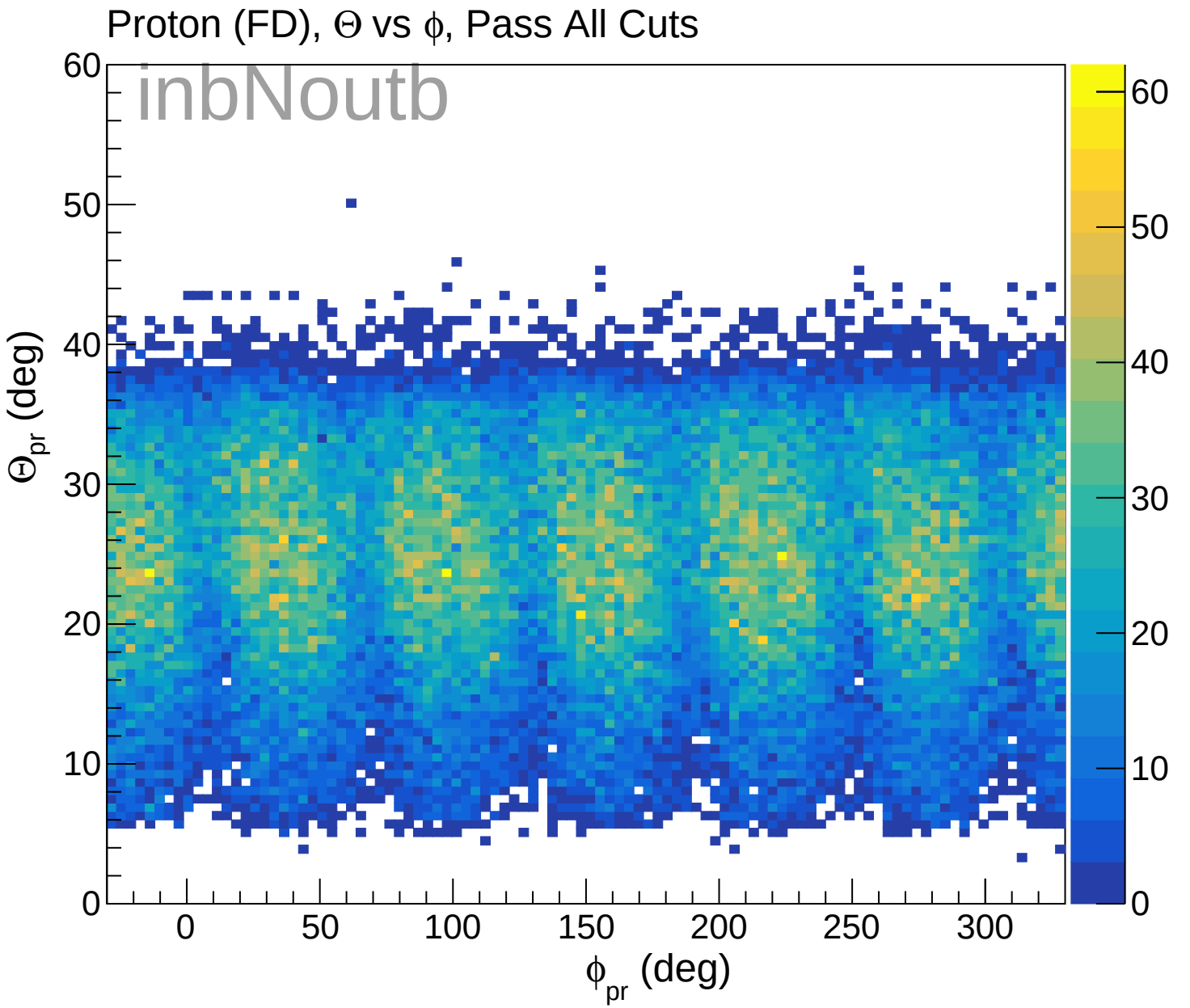

Electron (FD), P vs Vz, Pass All Cuts
inbNoutb
15
10
5
0
−5
−10
−15
−20
Vz_{el} (cm)
0
2
4
6
8
10
P_{el} (GeV)
80
70
60
50
40
30
20
10
0

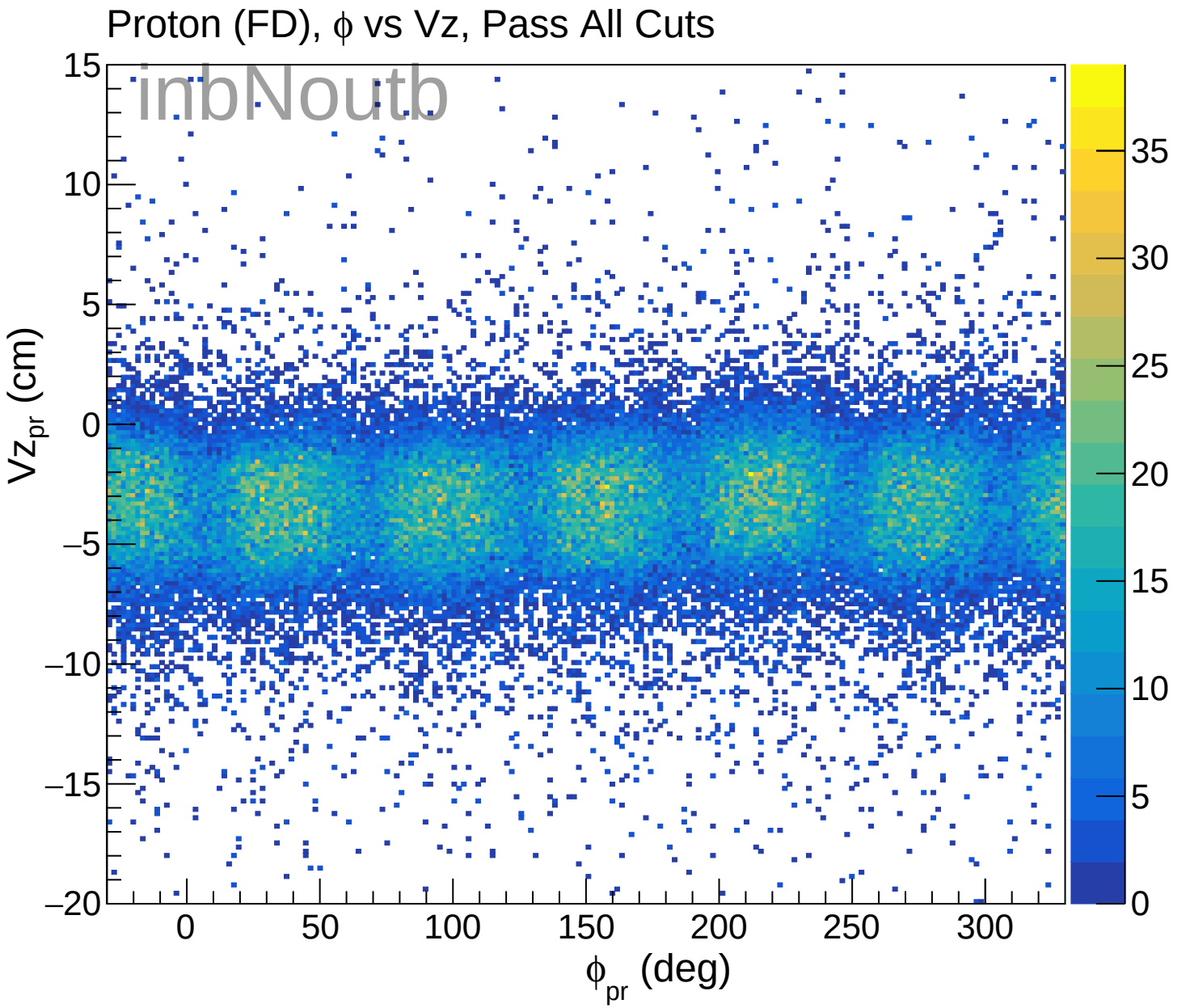

Electron (FD), P_el vs Δ Vz_el - Vz_pro, Pass All Cuts
inbNoutb
Δ Vz_el - Vz_pro (cm)
P (GeV)
20
15
10
5
0
−5
−10
−15
−20
0
2
4
6
8
10
90
80
70
60
50
40
30
20
10
0

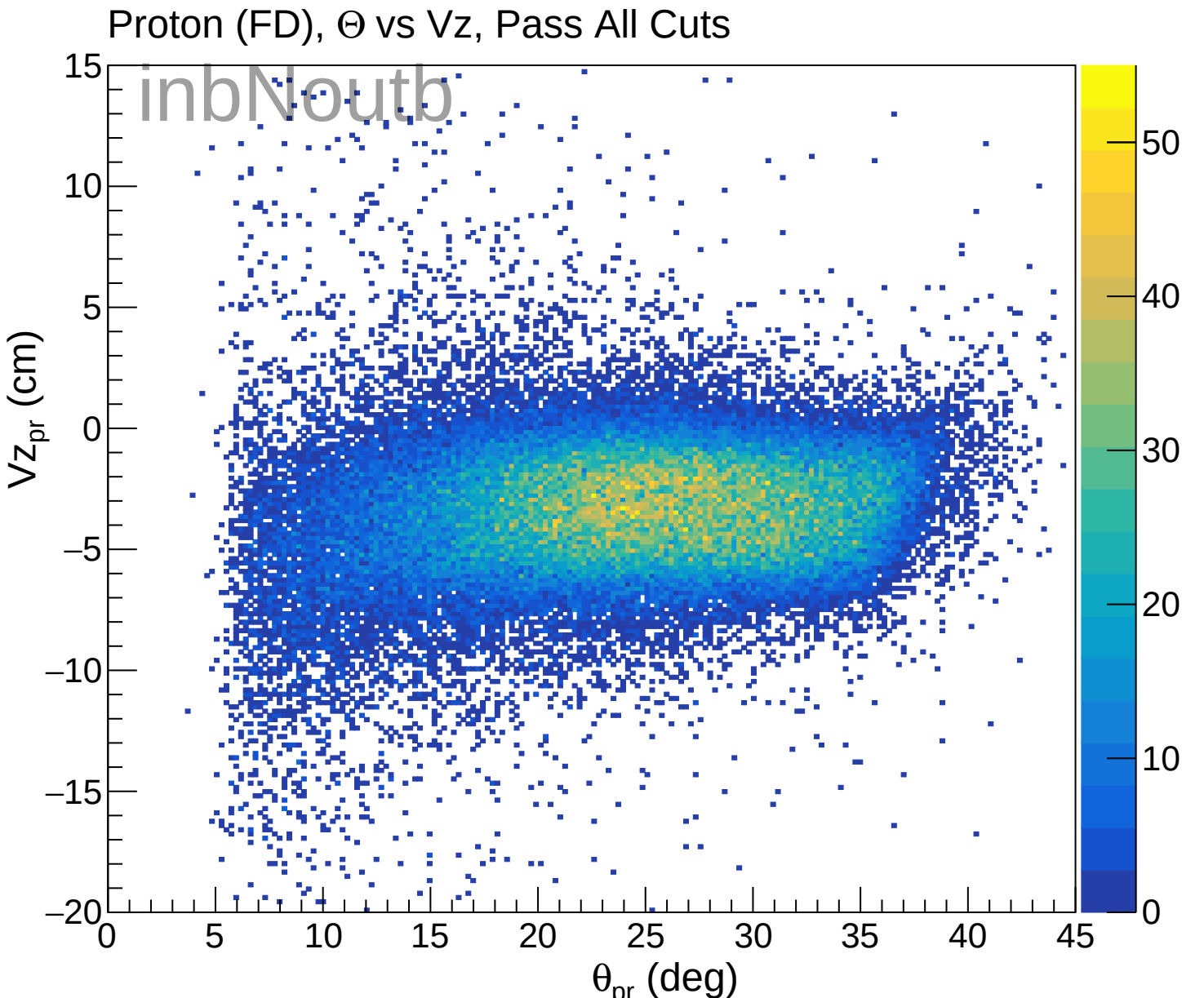

(FD), Q2 vs Xb, Pass All Cuts
inbNoutb
Q2 (GeV2)
Xb
0
2
4
6
8
10
12
0
0.2
0.4
0.6
0.8
1
0
20
40
60
80
100
120
140
160

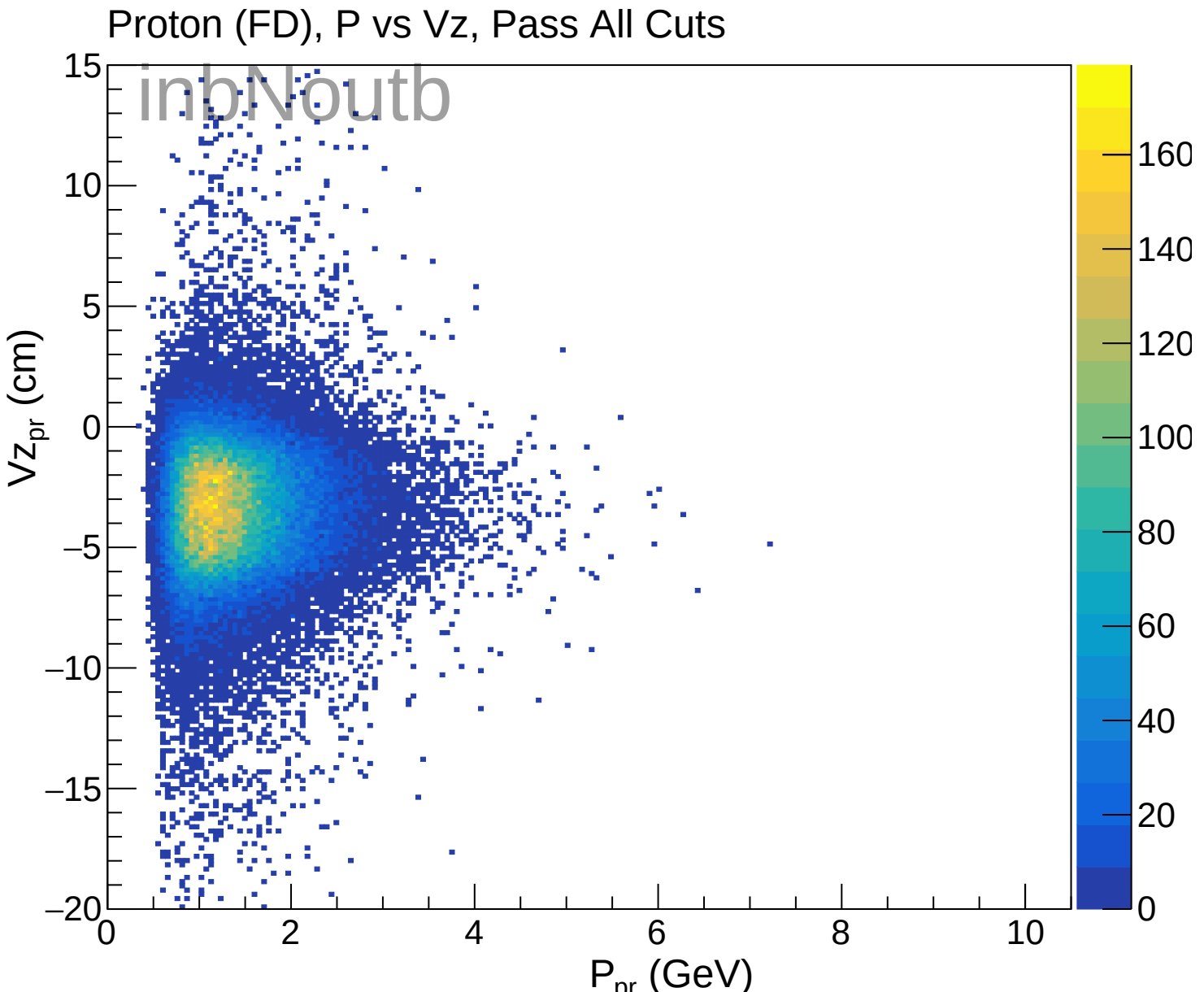

(FD), Q^2 vs W, Pass All Cuts
inbNoutb
Q^2 (GeV^2)
W (GeV)
0
2
4
6
8
10
12
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
0
10
20
30
40
50
60

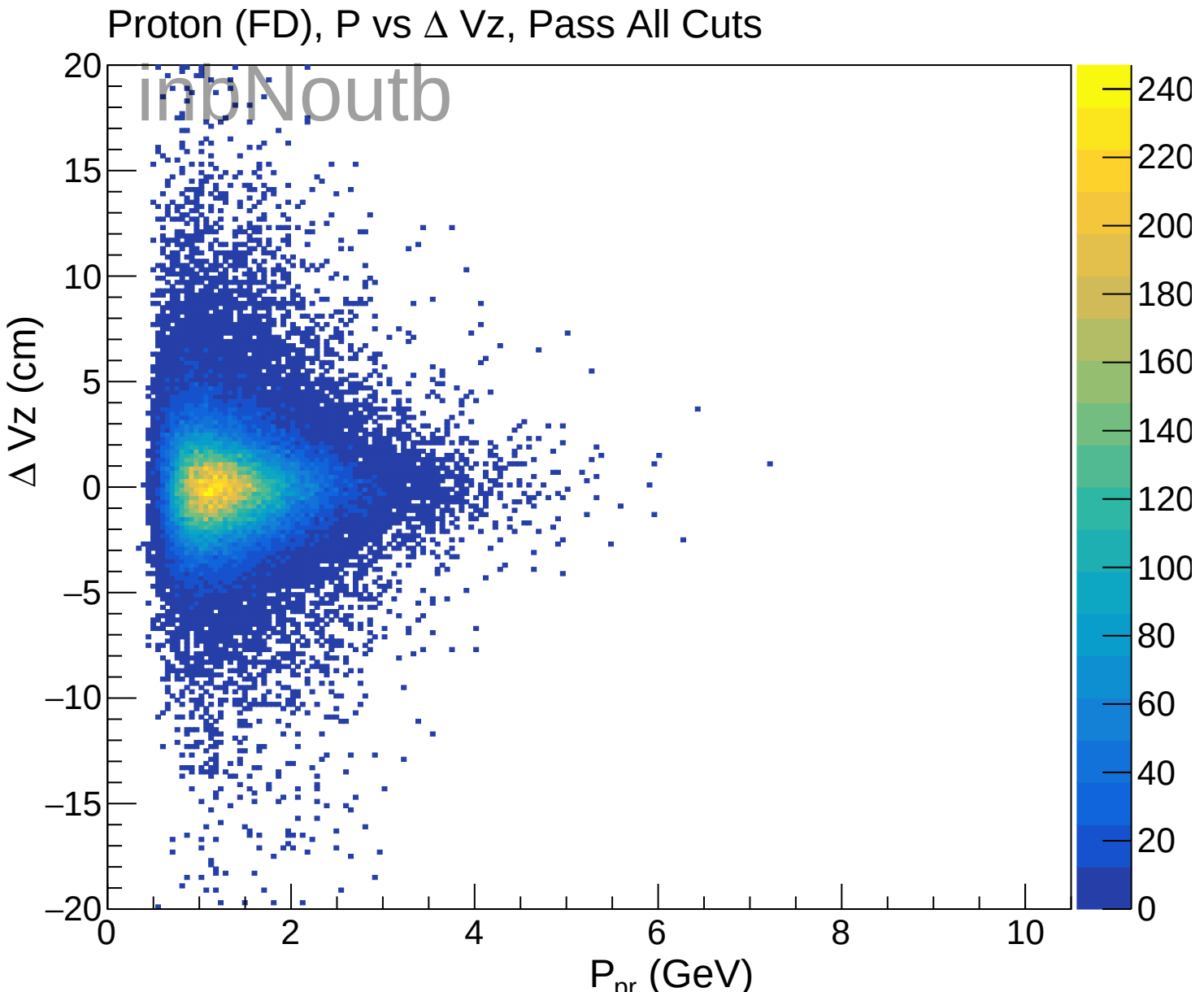

Proton (FD), Θ vs P, Pass All Cuts
inbNoutb
Θpr (deg)
Ppr (GeV)
0
10
20
30
40
50
60
0
1
2
3
4
5
0
10
20
30
40
50

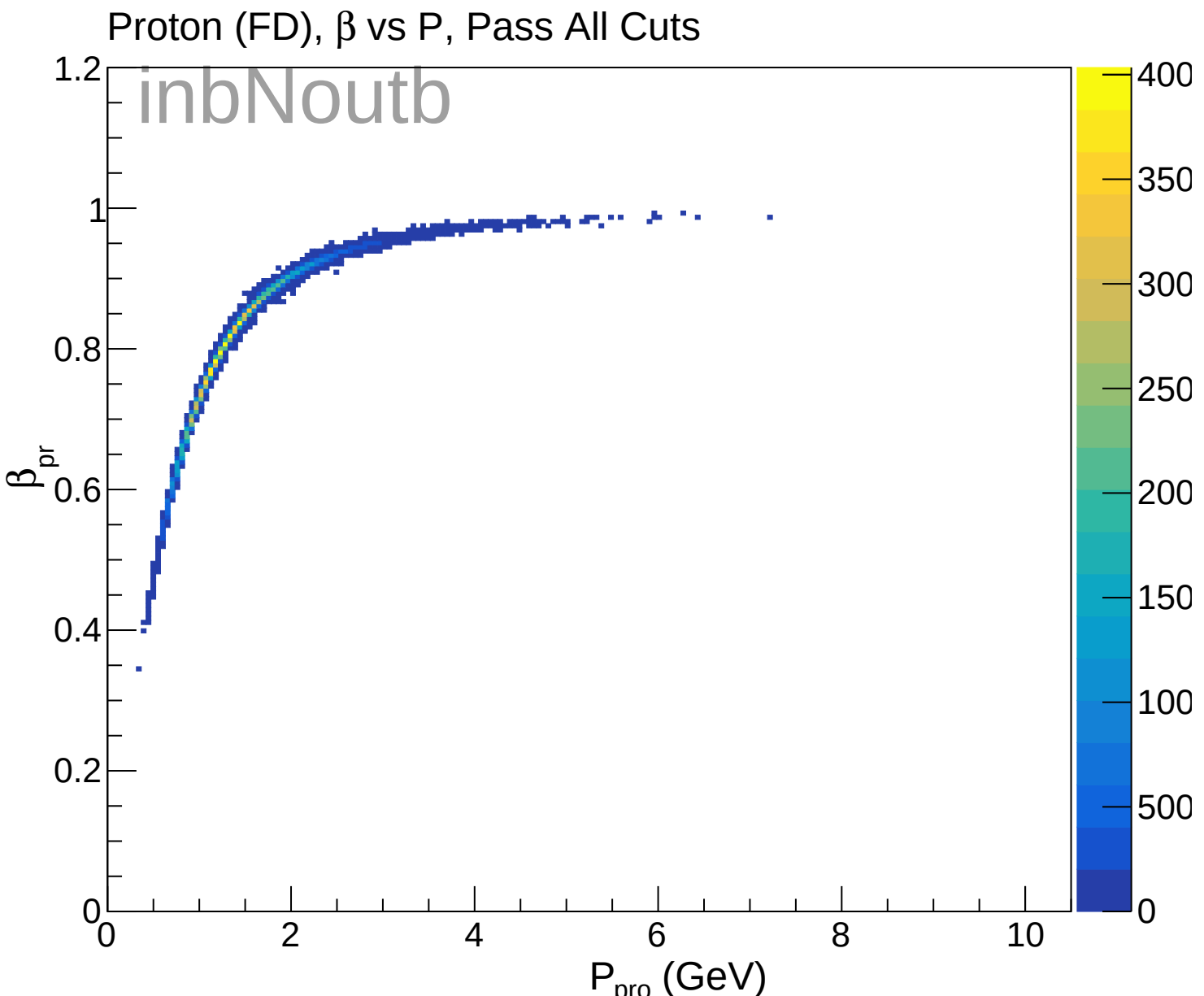

Proton (FD), Θ vs ϕ, Pass All Cuts
inbNoutb
60
50
40
30
20
10
0
Θpr (deg)
0
50
100
150
200
250
300
ϕpr (deg)
60
50
40
30
20
10
0

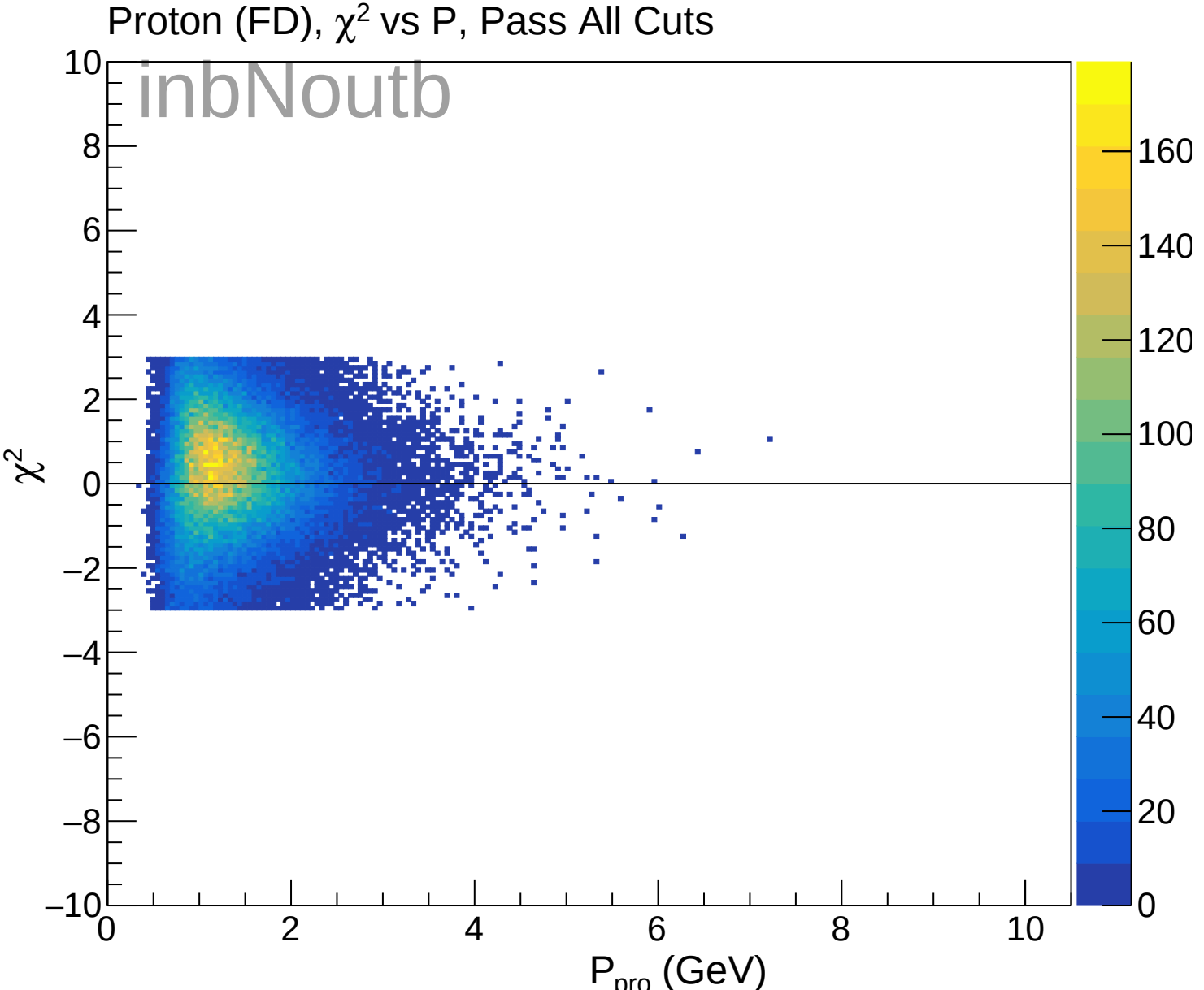

Proton (FD), ϕ vs Vz, Pass All Cuts
inbNoutb
15
10
5
0
−5
−10
−15
−20
Vz_pr (cm)
0
50
100
150
200
250
300
ϕ_pr (deg)
35
30
25
20
15
10
5
0

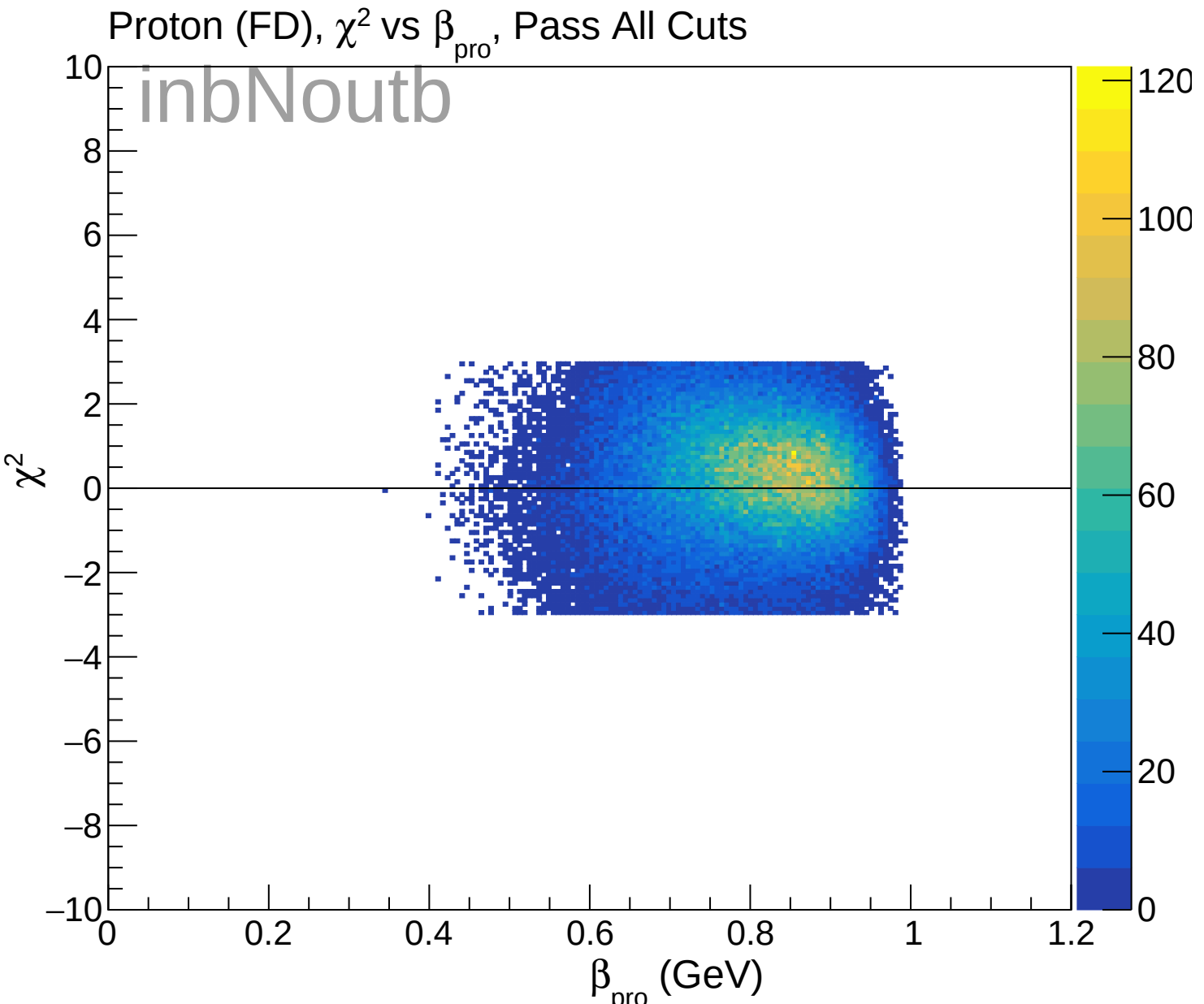

Proton (FD), Θ vs Vz, Pass All Cuts
inbNoutb
15
10
5
0
−5
−10
−15
−20
Vz_pr (cm)
0
5
10
15
20
25
30
35
40
45
θ_pr (deg)
50
40
30
20
10
0

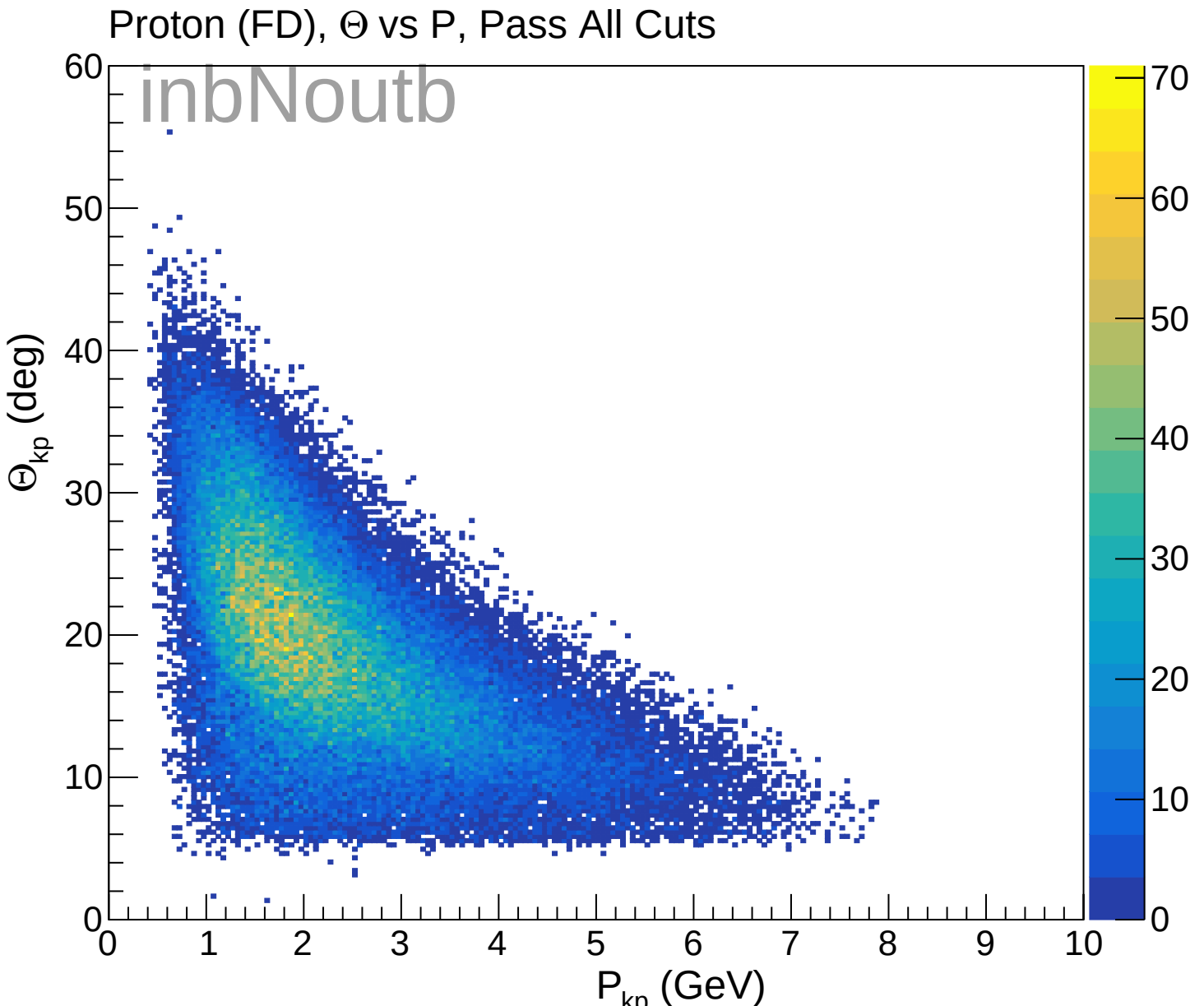

Proton (FD), P vs Vz, Pass All Cuts
inbNoutb
15
10
5
0
−5
−10
−15
−20
Vz_{pr} (cm)
0
2
4
6
8
10
P_{pr} (GeV)
160
140
120
100
80
60
40
20
0

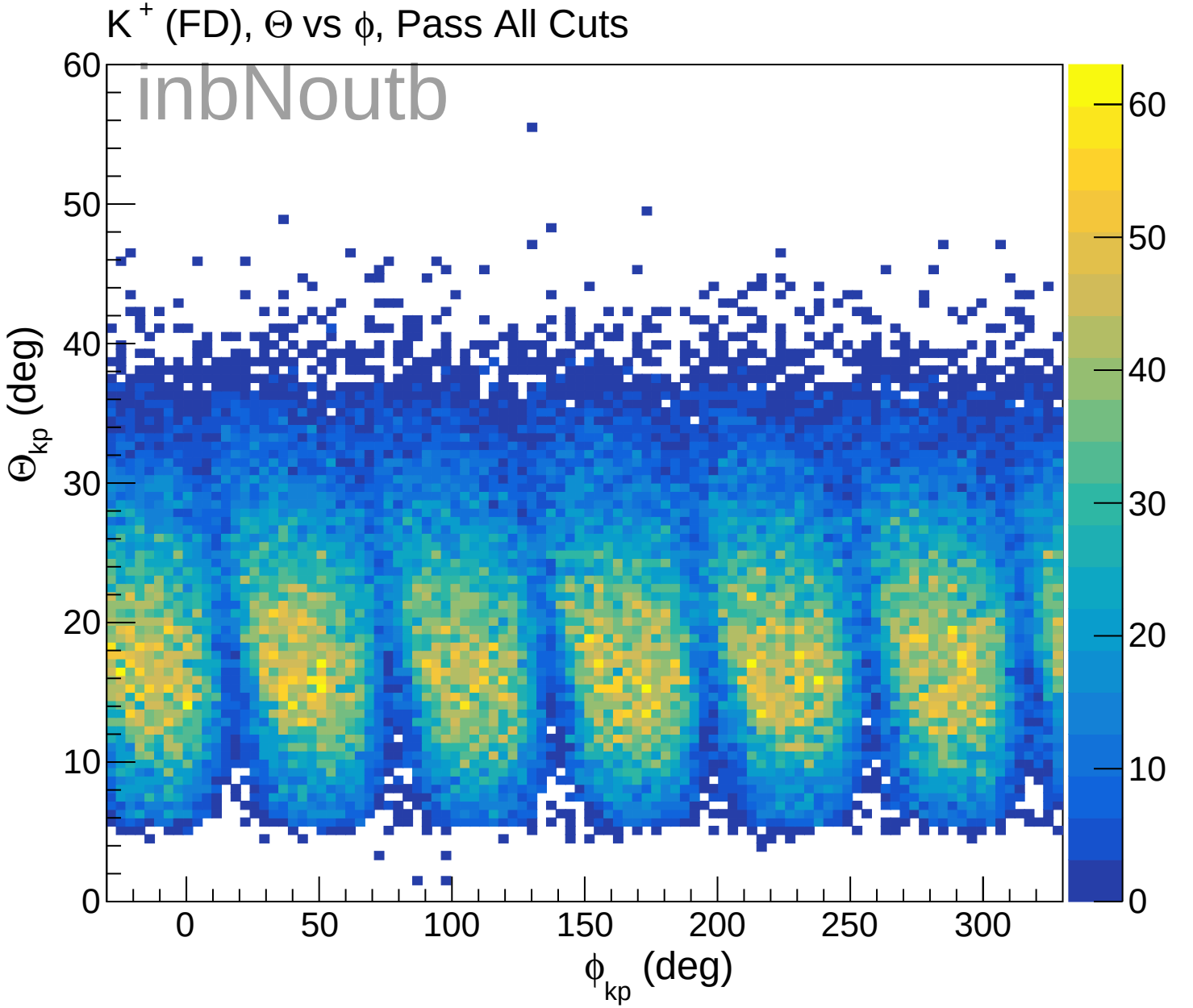

Proton (FD), P vs Δ Vz, Pass All Cuts
inbNoutb
Δ Vz (cm)
P_pr (GeV)
20
15
10
5
0
−5
−10
−15
−20
0
2
4
6
8
10
240
220
200
180
160
140
120
100
80
60
40
20
0

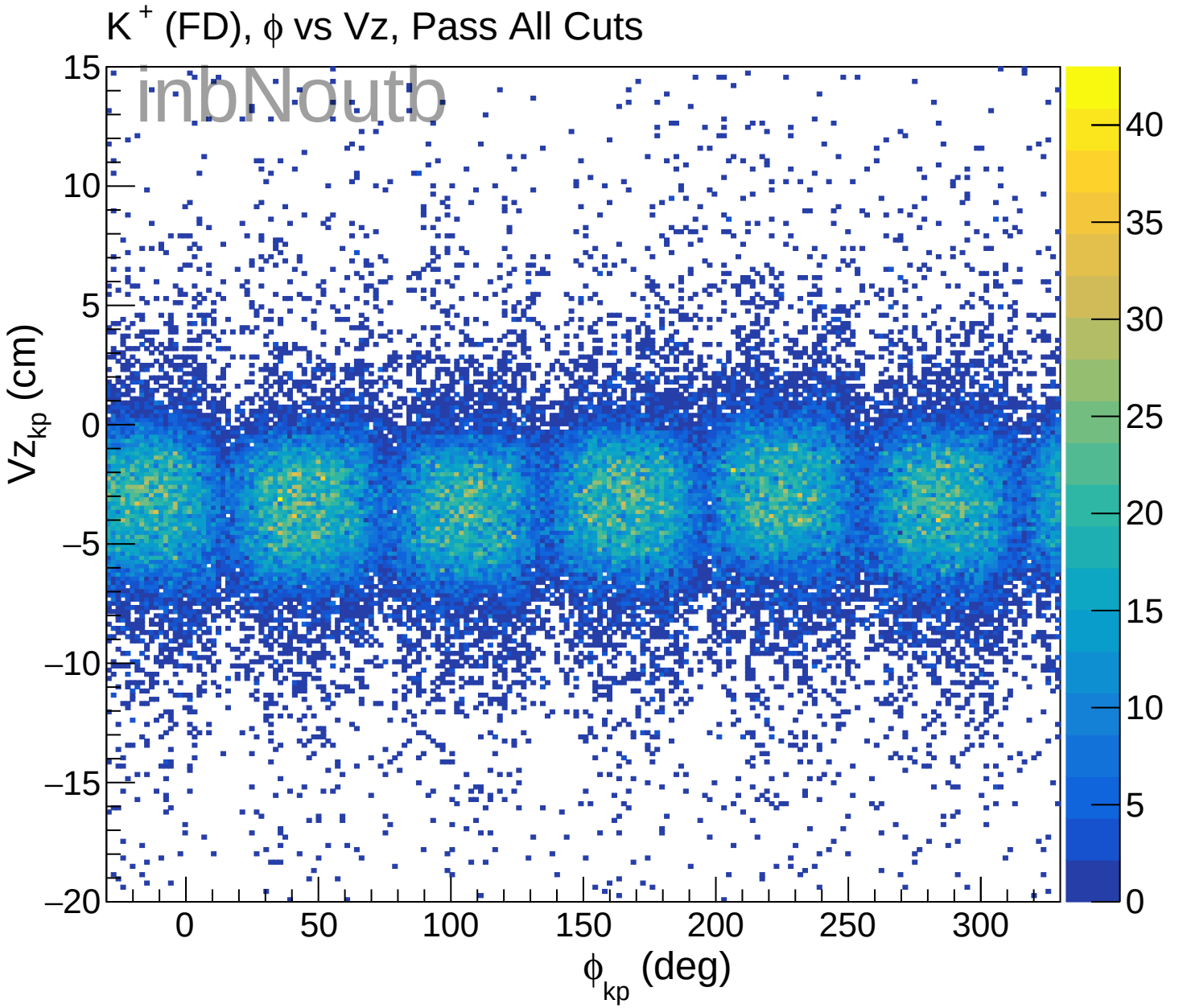

Proton (FD), β vs P, Pass All Cuts
inbNoutb
1.2
1
0.8
0.6
0.4
0.2
0
β pr
0
2
4
6
8
10
P pro (GeV)
400
350
300
250
200
150
100
500
0

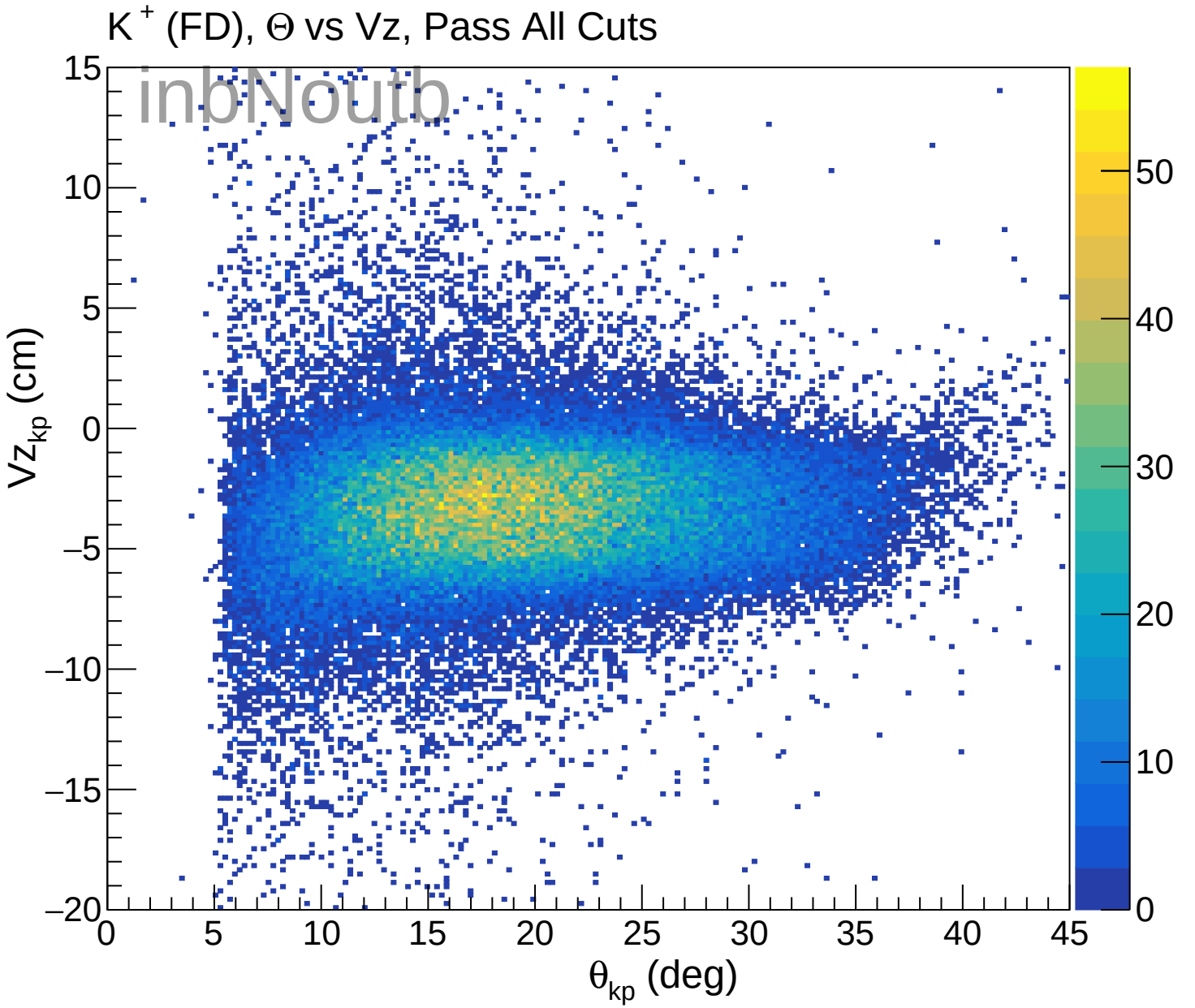

Proton (FD), χ^2 vs P, Pass All Cuts
inbNoutb
χ^2
P_{pro} (GeV)
10
8
6
4
2
0
−2
−4
−6
−8
−10
0
2
4
6
8
10
160
140
120
100
80
60
40
20
0

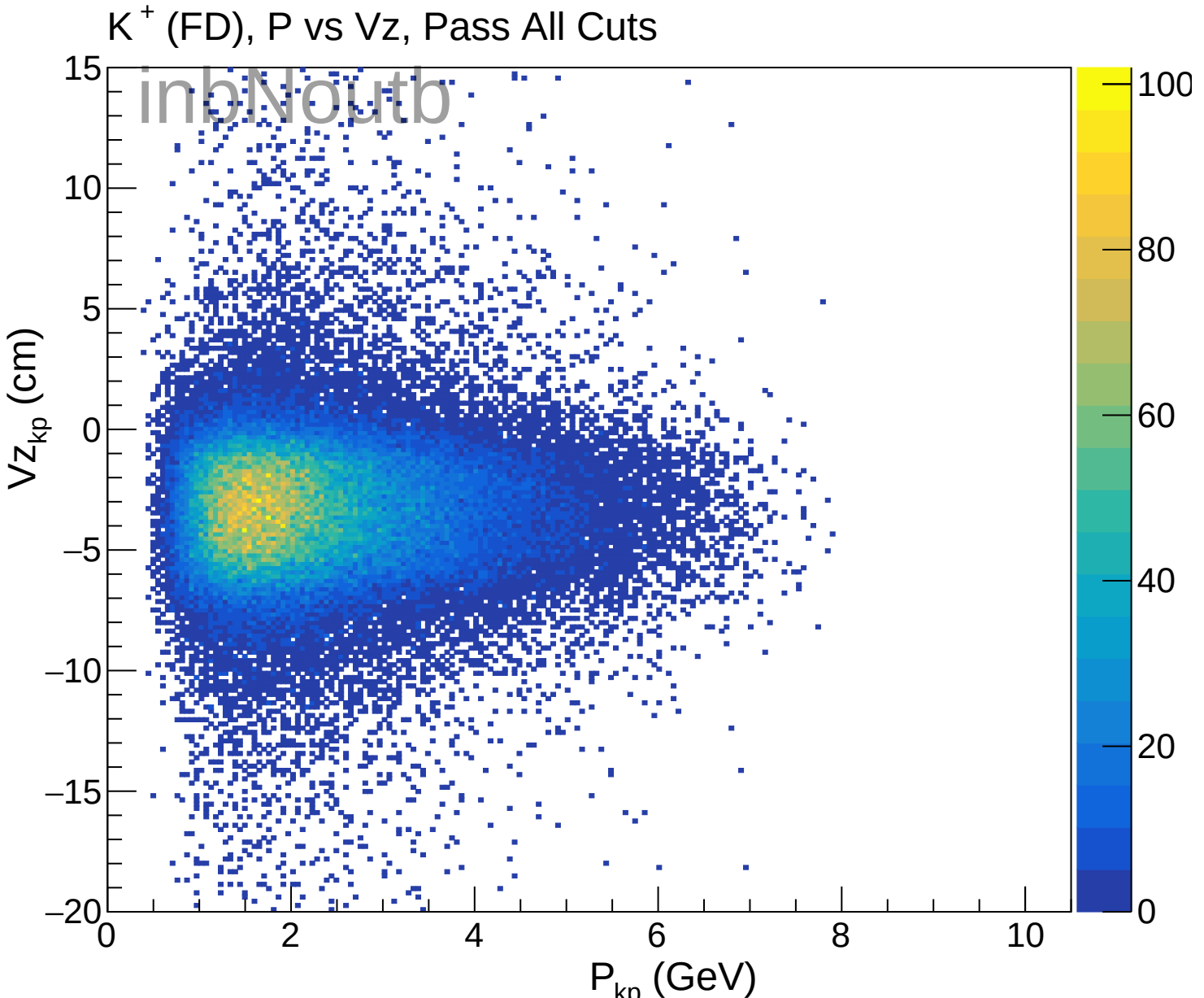

Proton (FD), χ^2 vs β_{pro}, Pass All Cuts
inbNoutb
χ^2
β_{pro} (GeV)
10
8
6
4
2
0
−2
−4
−6
−8
−10
0
0.2
0.4
0.6
0.8
1
1.2
120
100
80
60
40
20
0

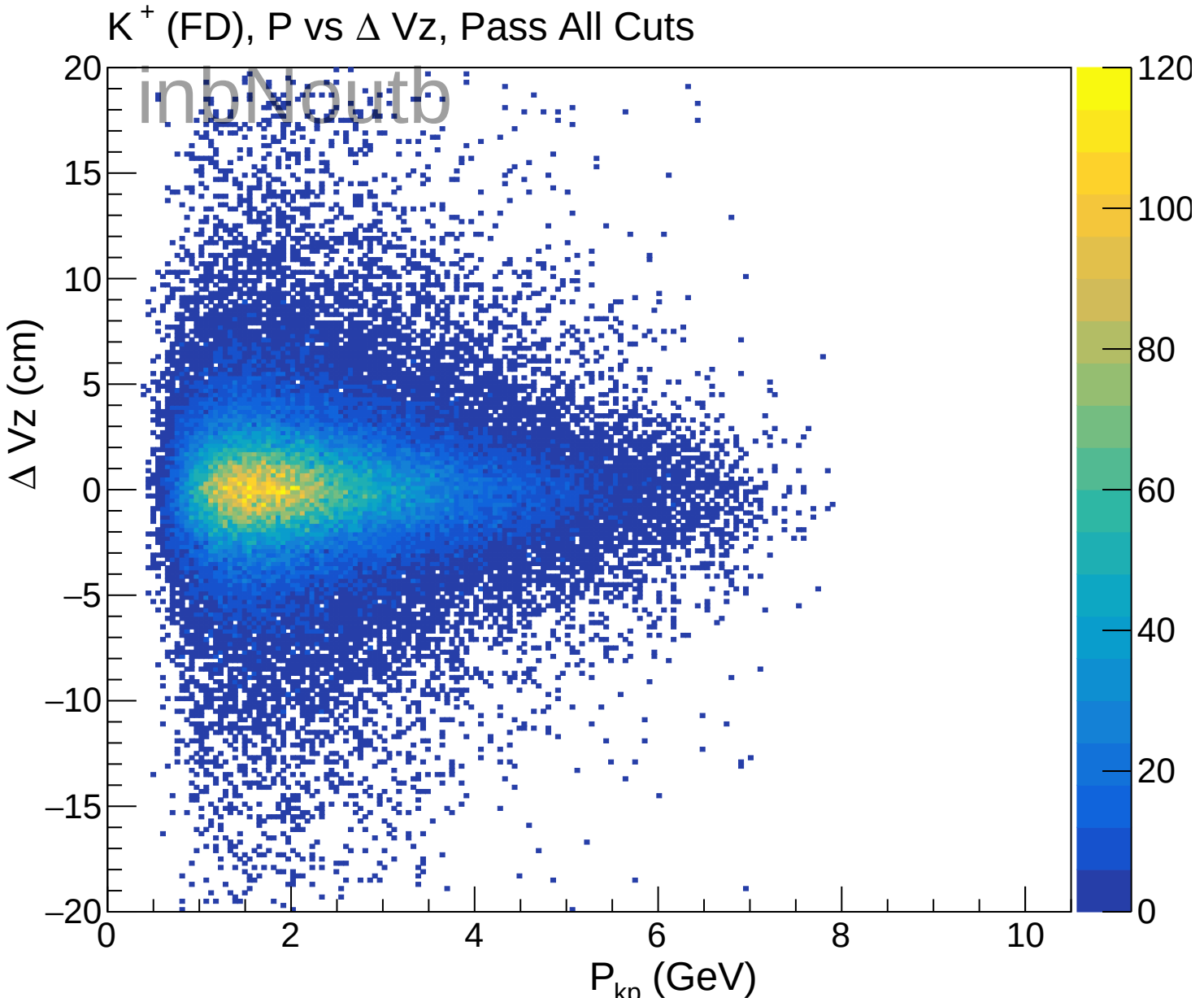

Proton (FD), Θ vs P, Pass All Cuts
inbNoutb
Θkp (deg)
Pkp (GeV)
0
10
20
30
40
50
60
0
1
2
3
4
5
6
7
8
9
10
0
10
20
30
40
50
60
70

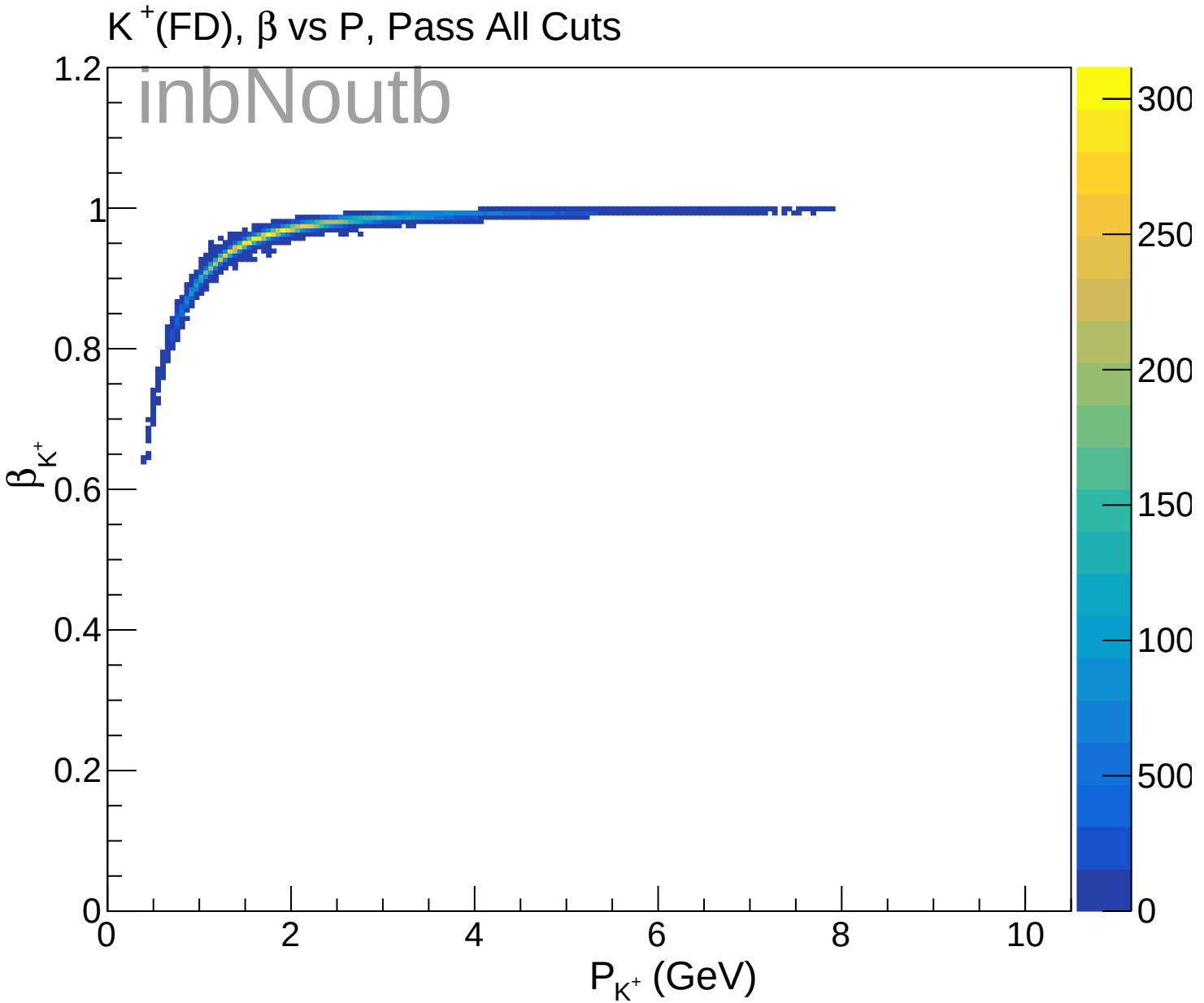

K+ (FD), Θ vs ϕ, Pass All Cuts
inbNoutb
Θkp (deg)
ϕkp (deg)
0
10
20
30
40
50
60
0
50
100
150
200
250
300

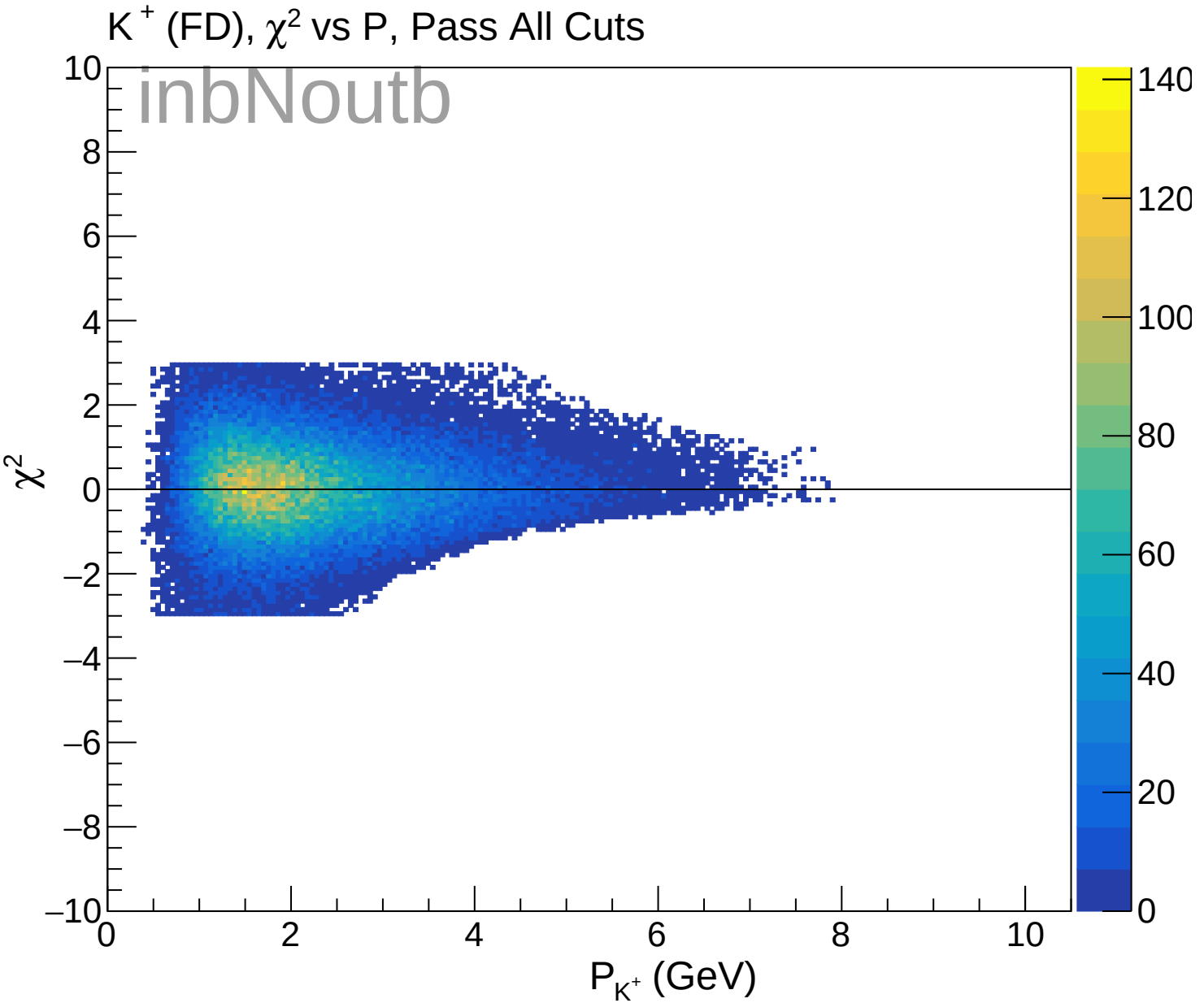

K+ (FD), ϕ vs Vz, Pass All Cuts
inbNoutb
15
10
5
0
−5
−10
−15
−20
Vzkp (cm)
0
50
100
150
200
250
300
ϕkp (deg)
40
35
30
25
20
15
10
5
0

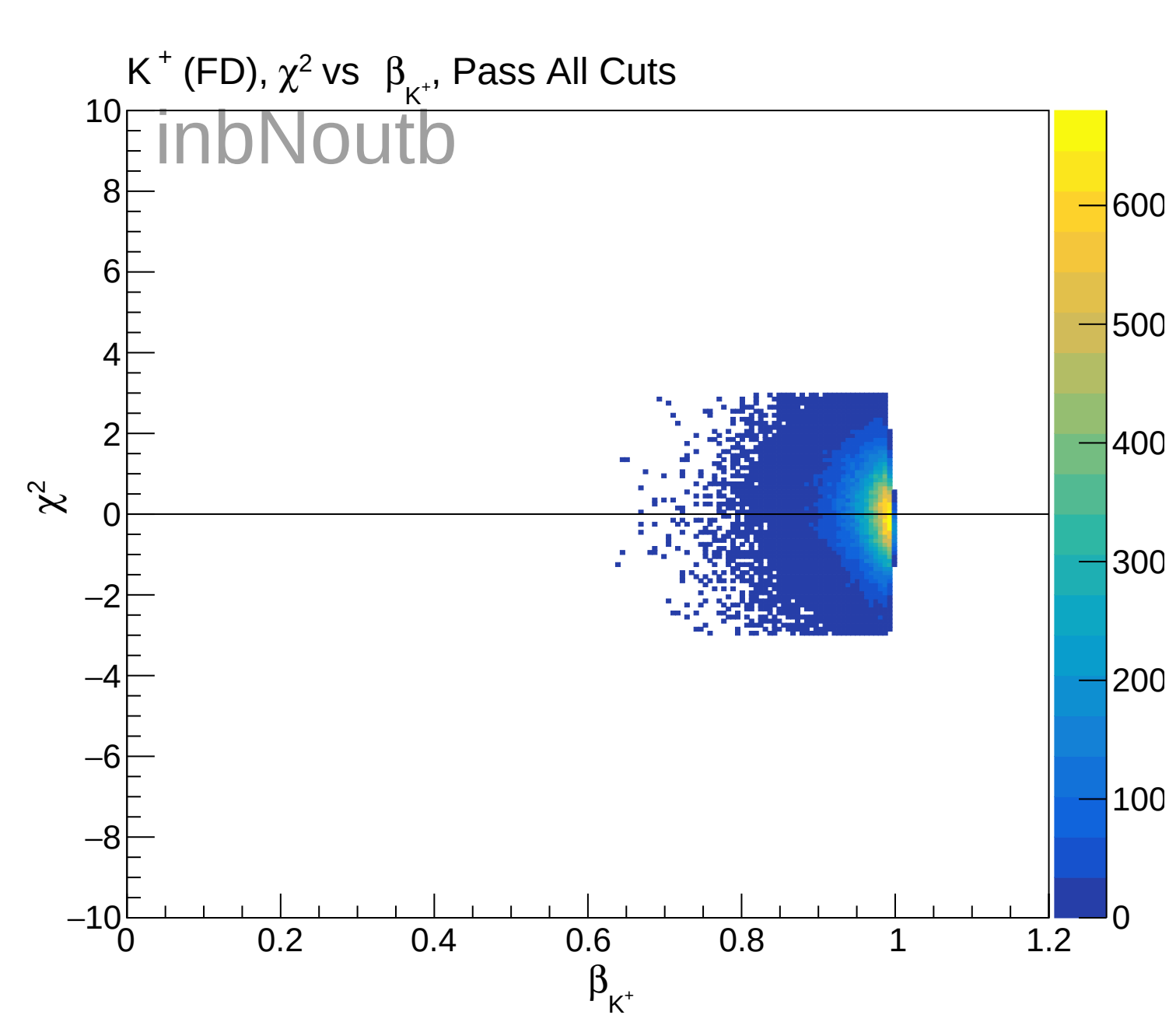

K+ (FD), Θ vs Vz, Pass All Cuts
inbNoutb
Vzkp (cm)
θkp (deg)
15
10
5
0
−5
−10
−15
−20
0
5
10
15
20
25
30
35
40
45
50
40
30
20
10
0

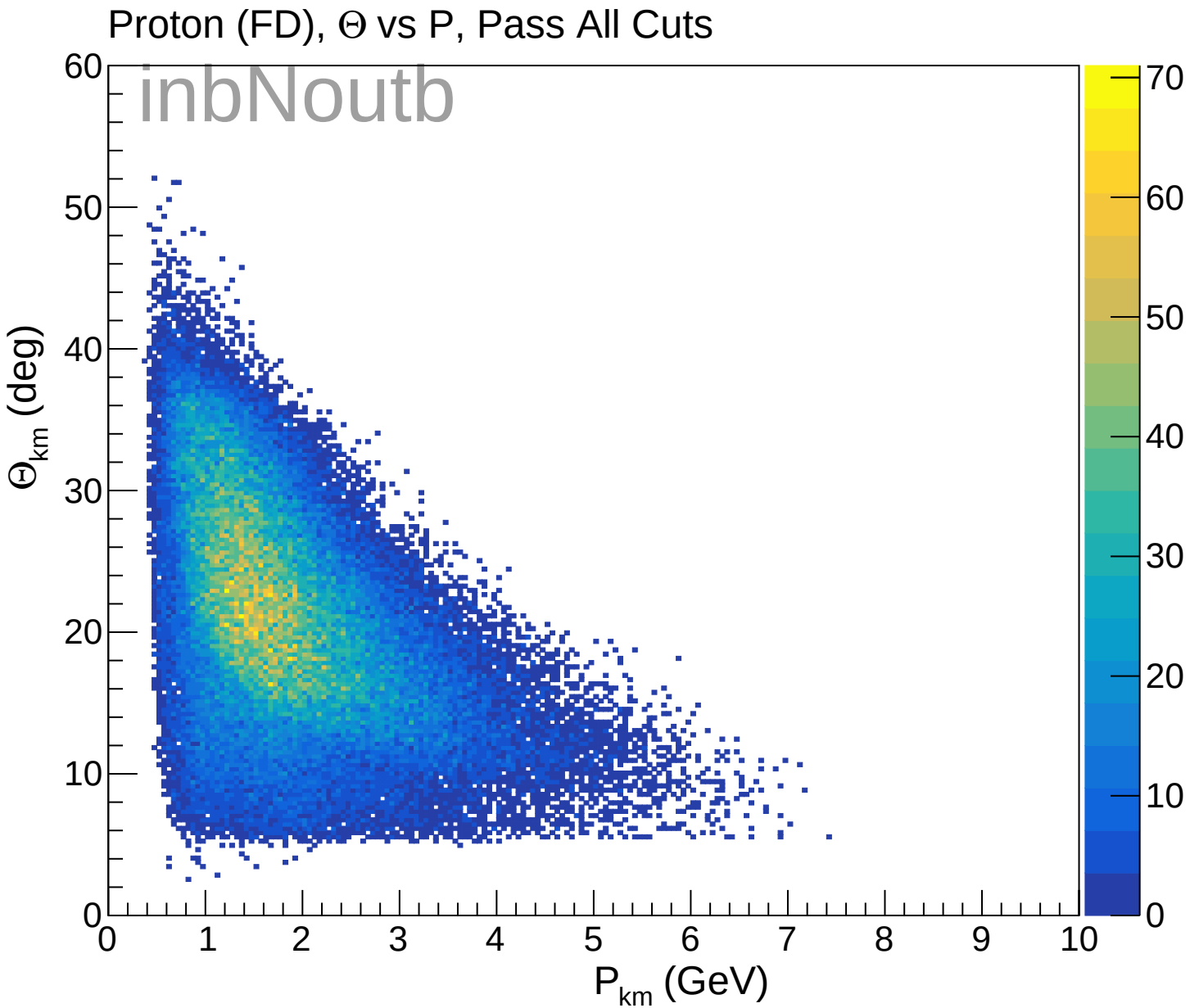

K+ (FD), P vs Vz, Pass All Cuts
inbNoutb
Vz_kp (cm)
P_kp (GeV)
15
10
5
0
−5
−10
−15
−20
0
2
4
6
8
10
100
80
60
40
20
0

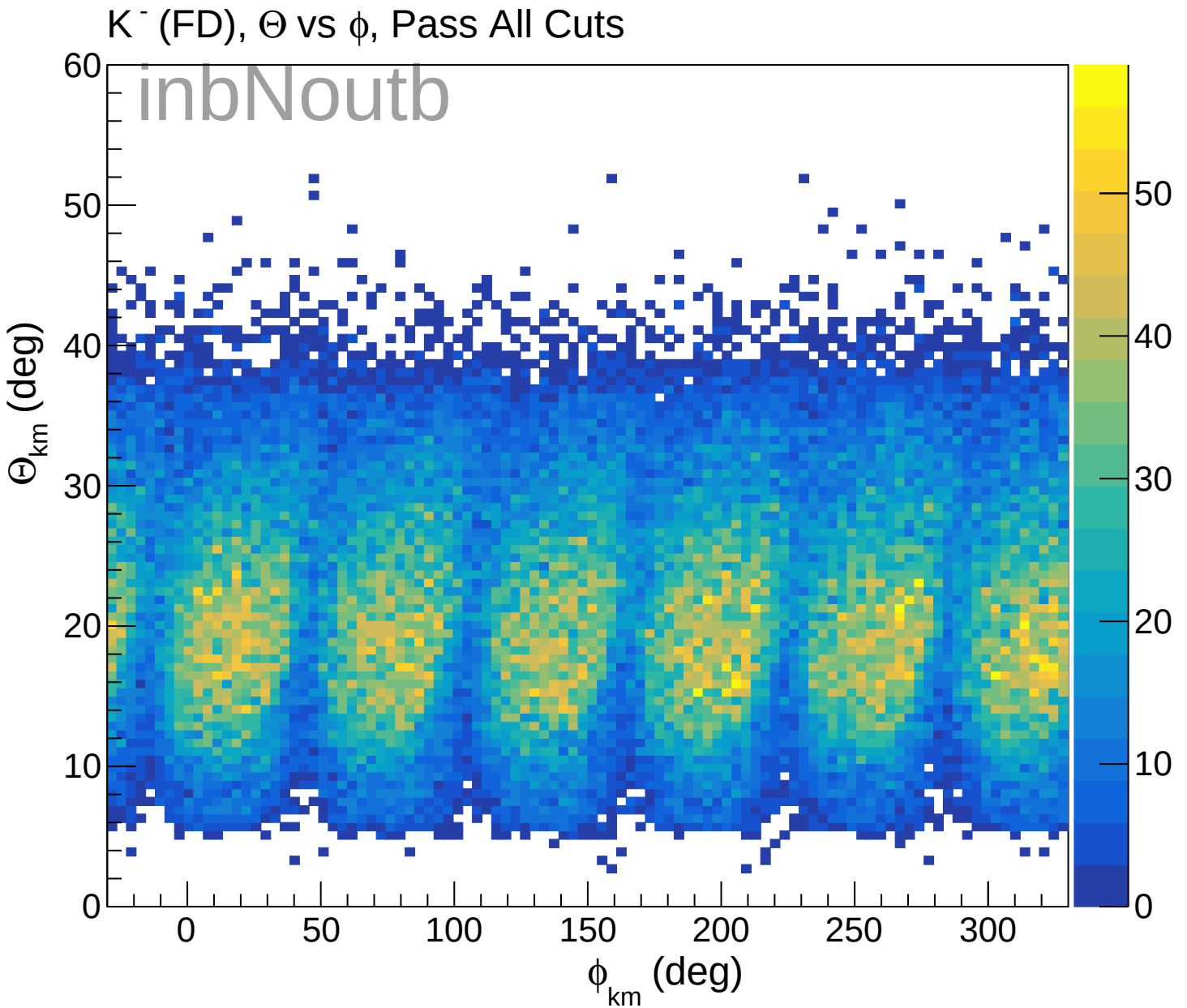

K+ (FD), P vs Δ Vz, Pass All Cuts
inbNoutb
Δ Vz (cm)
P_kp (GeV)
20
15
10
5
0
−5
−10
−15
−20
0
2
4
6
8
10
120
100
80
60
40
20
0

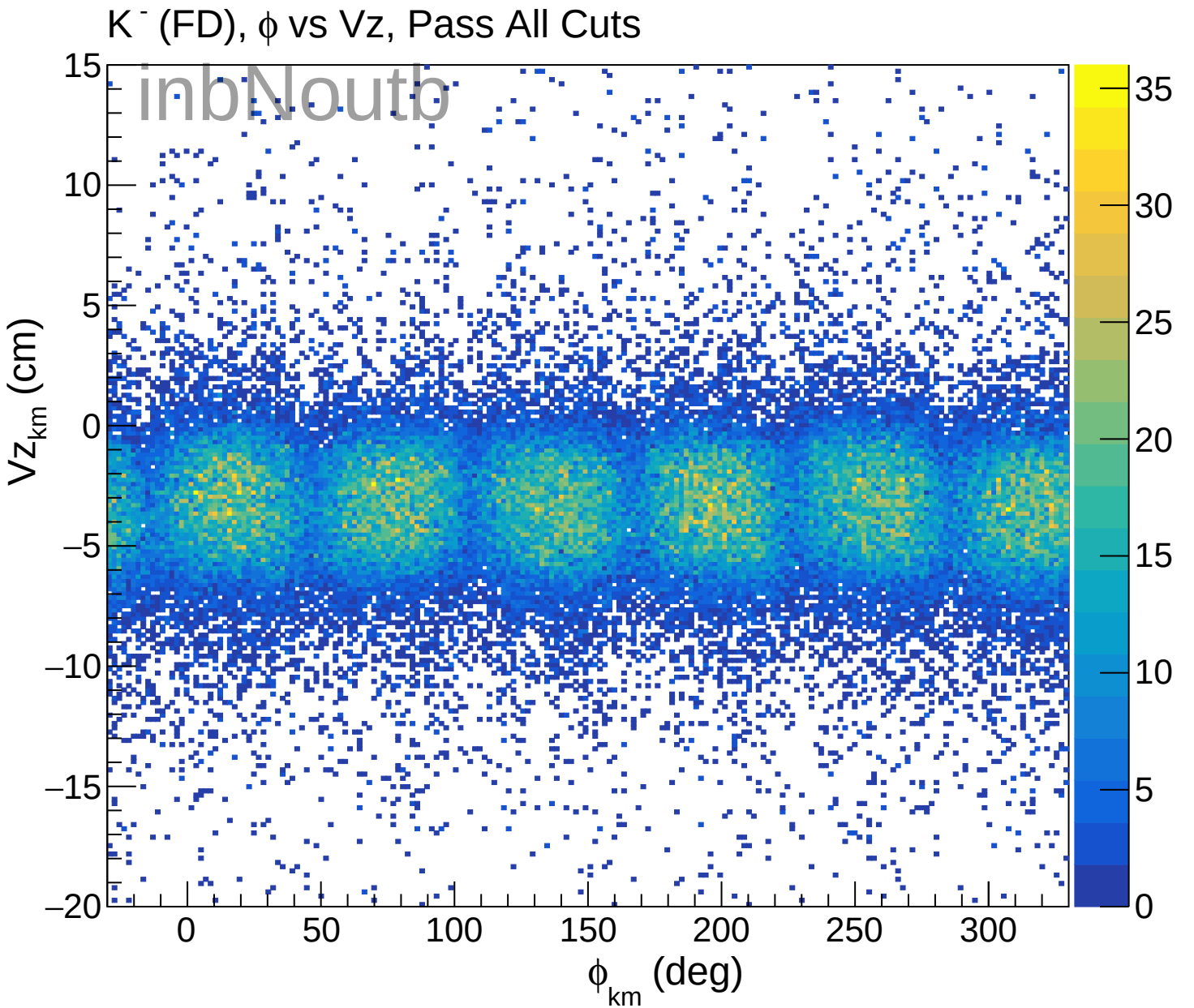

K+(FD), β vs P, Pass All Cuts
inbNoutb
1.2
1
0.8
0.6
0.4
0.2
0
βK+
0
2
4
6
8
10
PK+ (GeV)
300
250
200
150
100
500
0

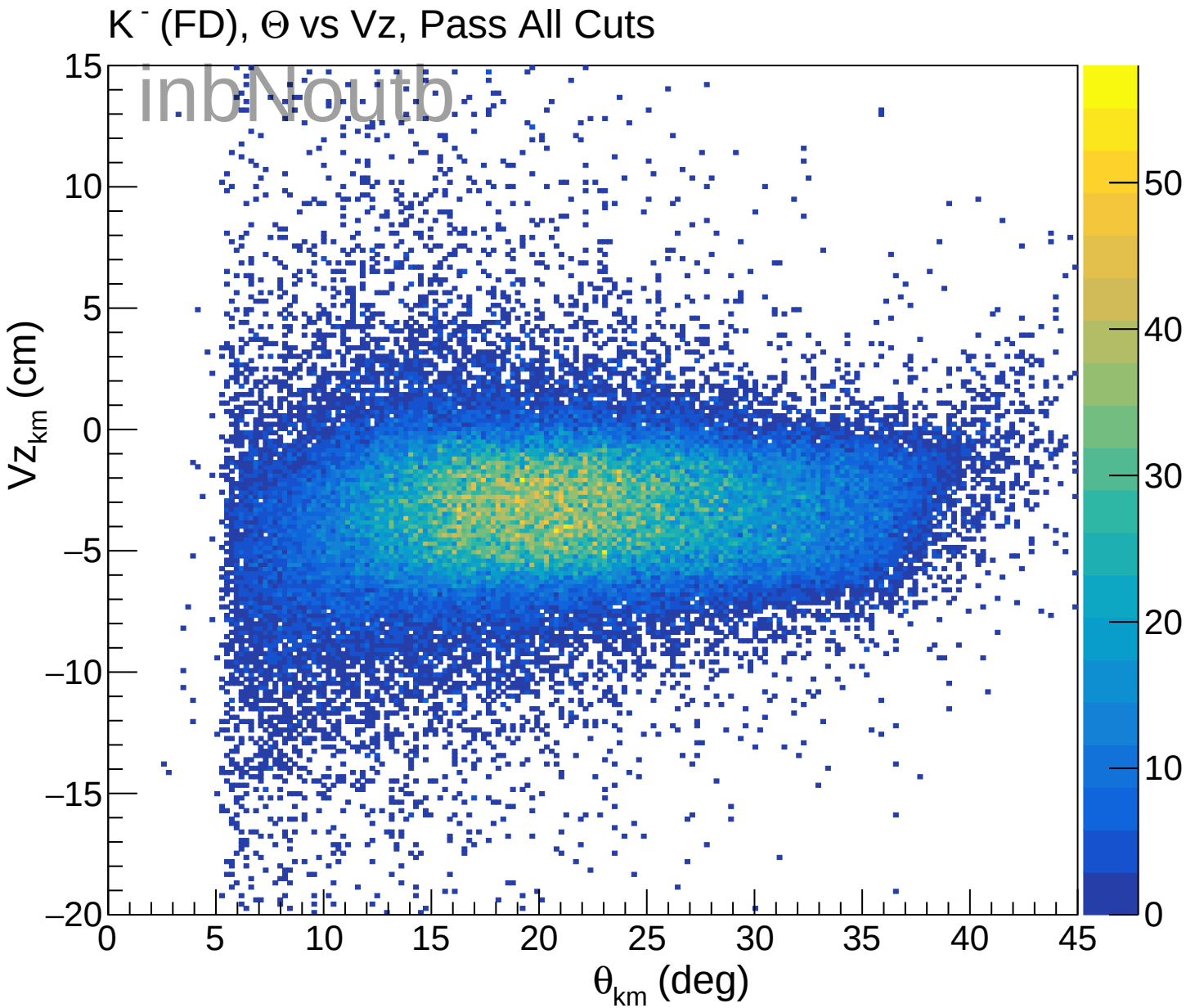

K + (FD), χ2 vs P, Pass All Cuts
inbNoutb
χ2
PK+ (GeV)
10
8
6
4
2
0
−2
−4
−6
−8
−10
0
2
4
6
8
10
140
120
100
80
60
40
20
0

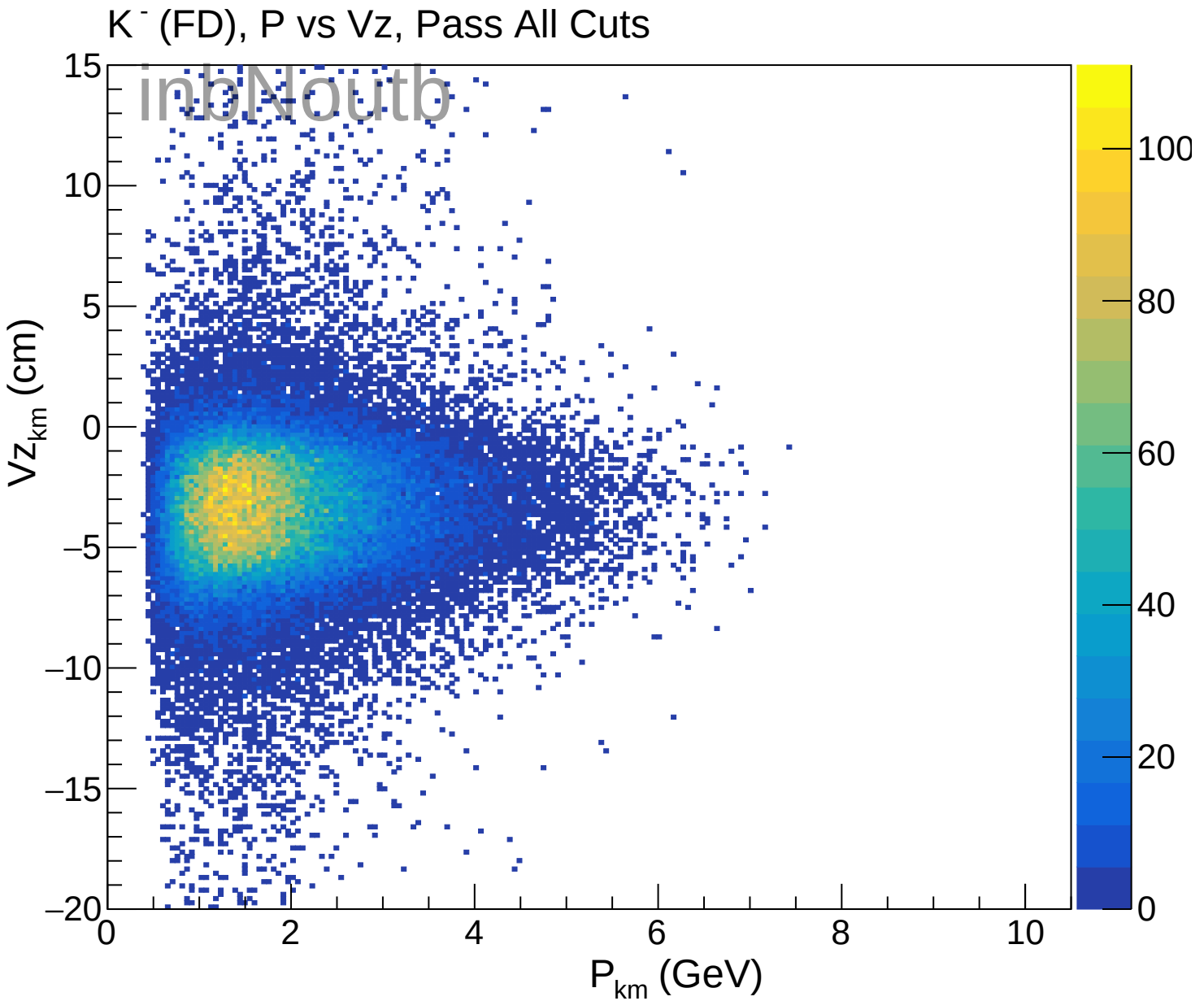

K+ (FD), χ2 vs βK+, Pass All Cuts
inbNoutb
χ2
βK+
10
8
6
4
2
0
−2
−4
−6
−8
−10
0
0.2
0.4
0.6
0.8
1
1.2
600
500
400
300
200
100
0

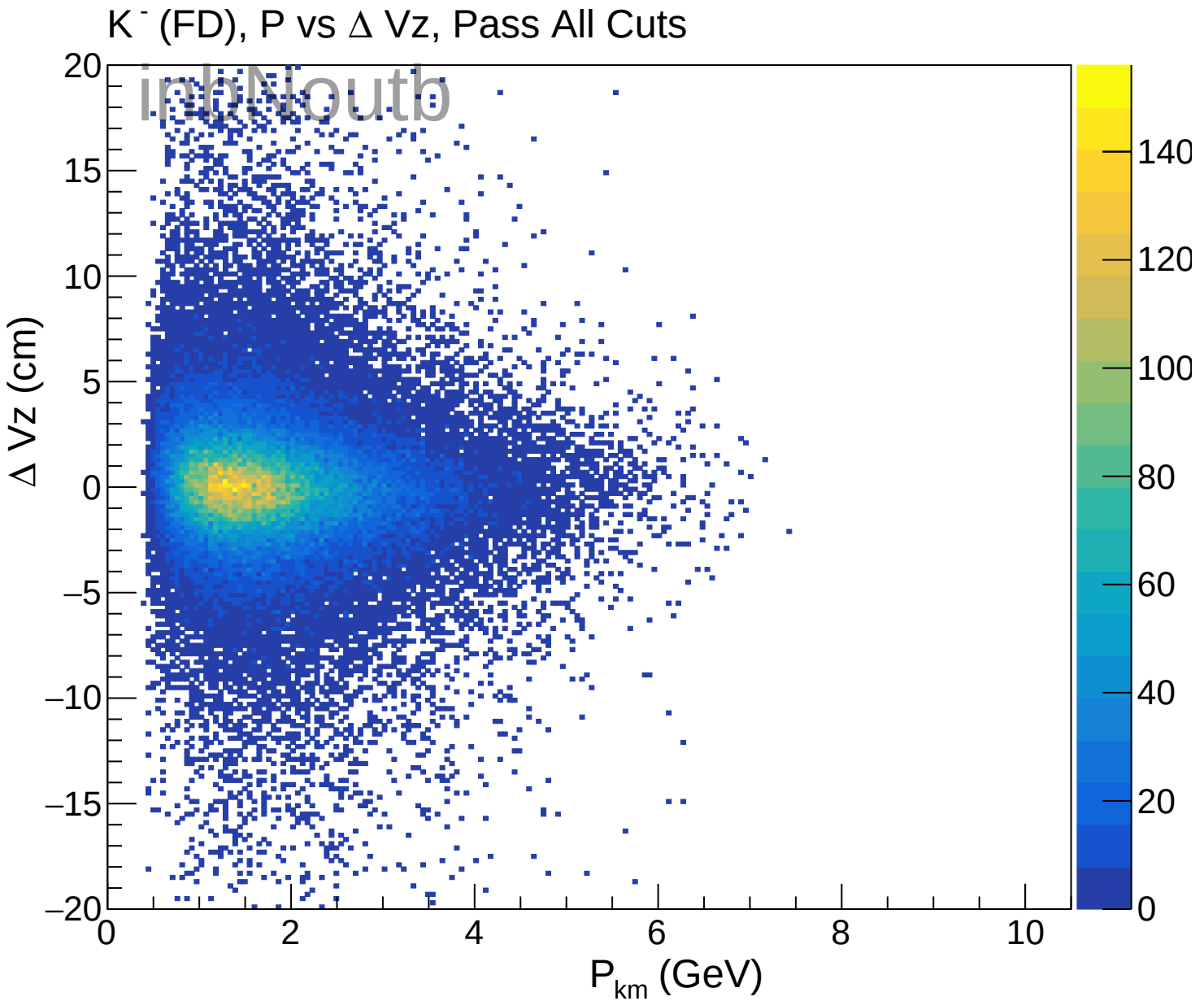

Proton (FD), Θ vs P, Pass All Cuts
inbNoutb
Θ_km (deg)
P_km (GeV)
0
10
20
30
40
50
60
0
1
2
3
4
5
6
7
8
9
10
0
10
20
30
40
50
60
70

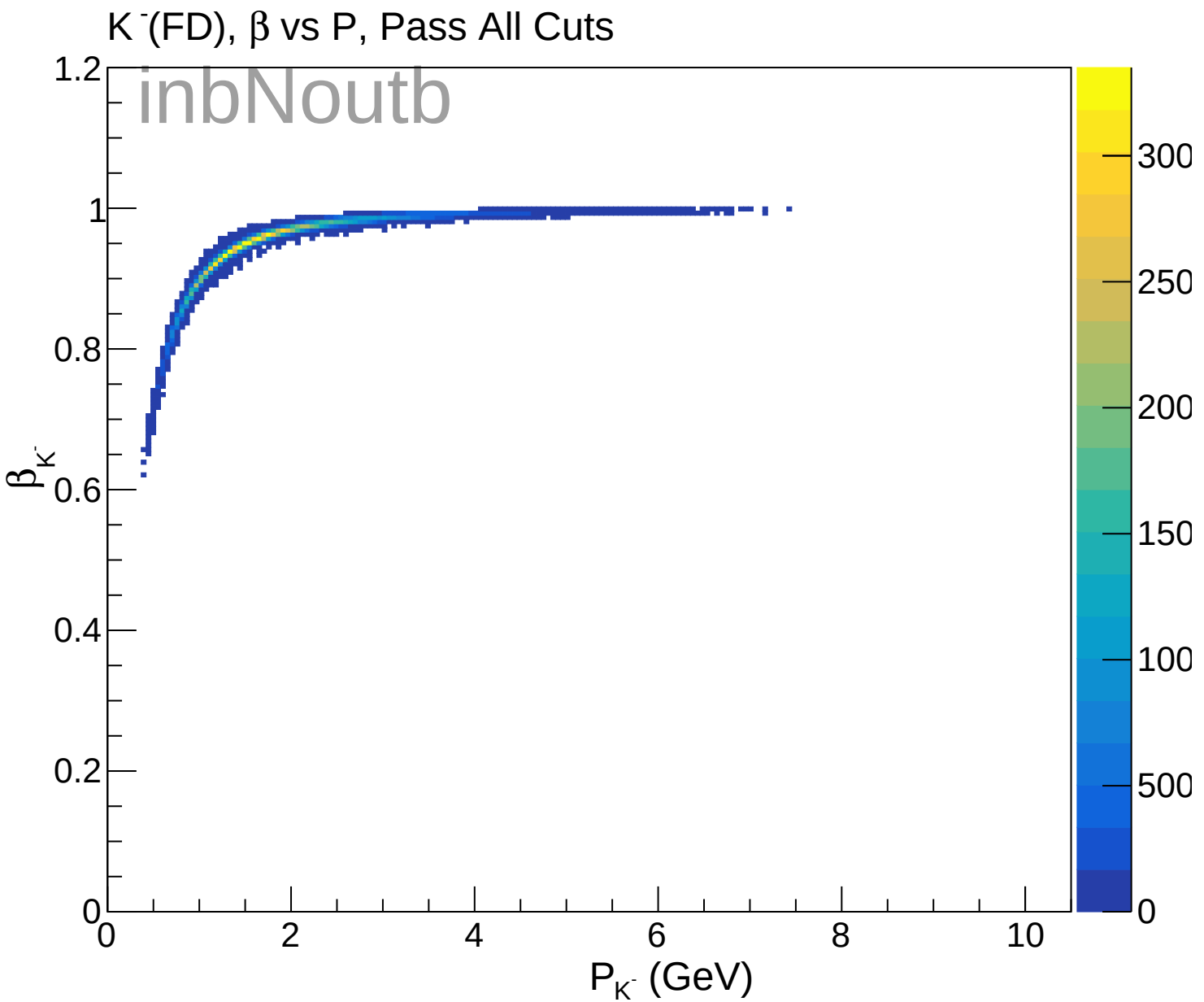

K⁻ (FD), Θ vs ϕ, Pass All Cuts
inbNoutb
Θ_km (deg)
ϕ_km (deg)
0
10
20
30
40
50
60
0
50
100
150
200
250
300
0
10
20
30
40
50

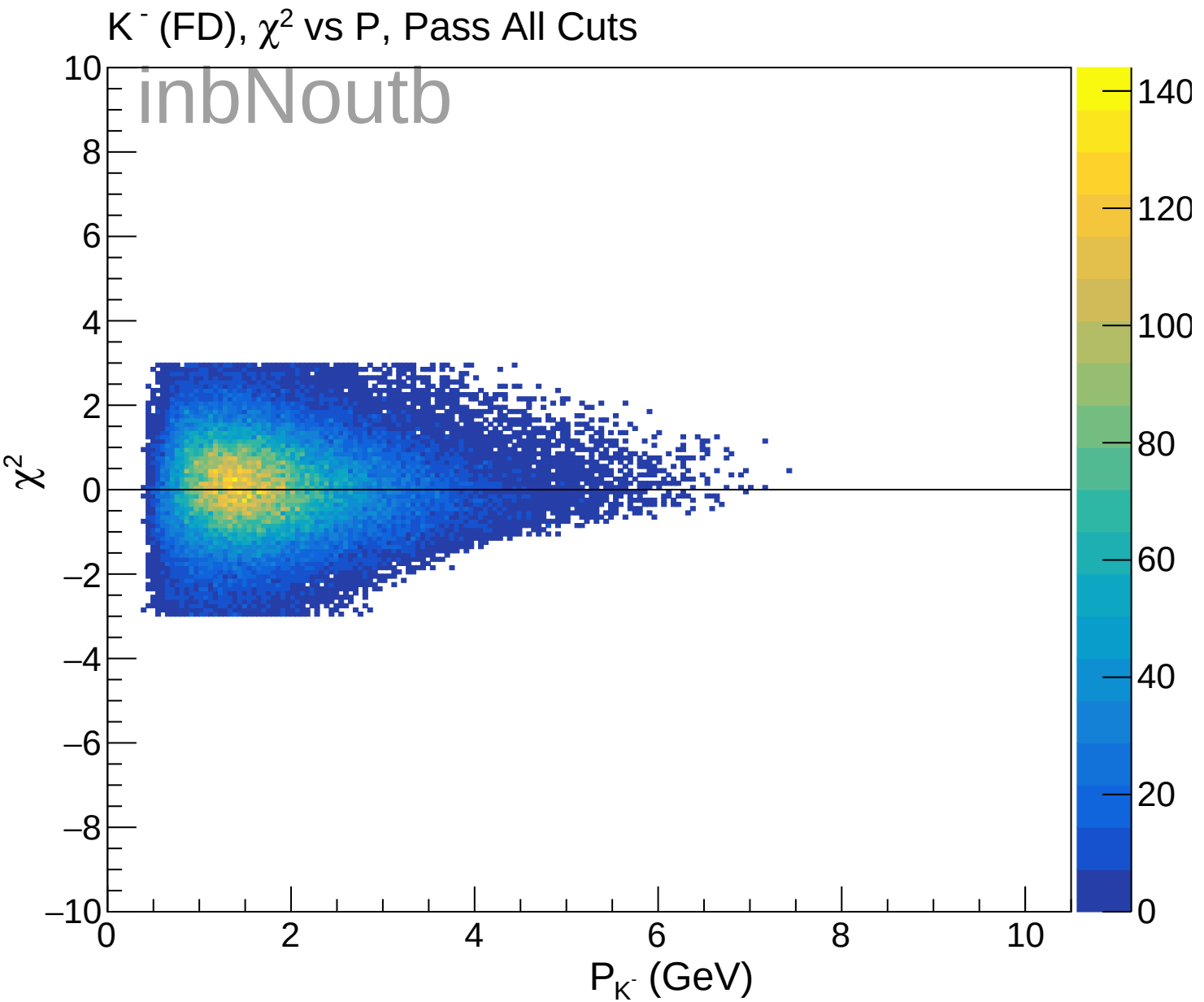

K⁻ (FD), ϕ vs Vz, Pass All Cuts
inbNoutb
15
10
5
0
−5
−10
−15
−20
Vz_km (cm)
0
50
100
150
200
250
300
ϕ_km (deg)
35
30
25
20
15
10
5
0

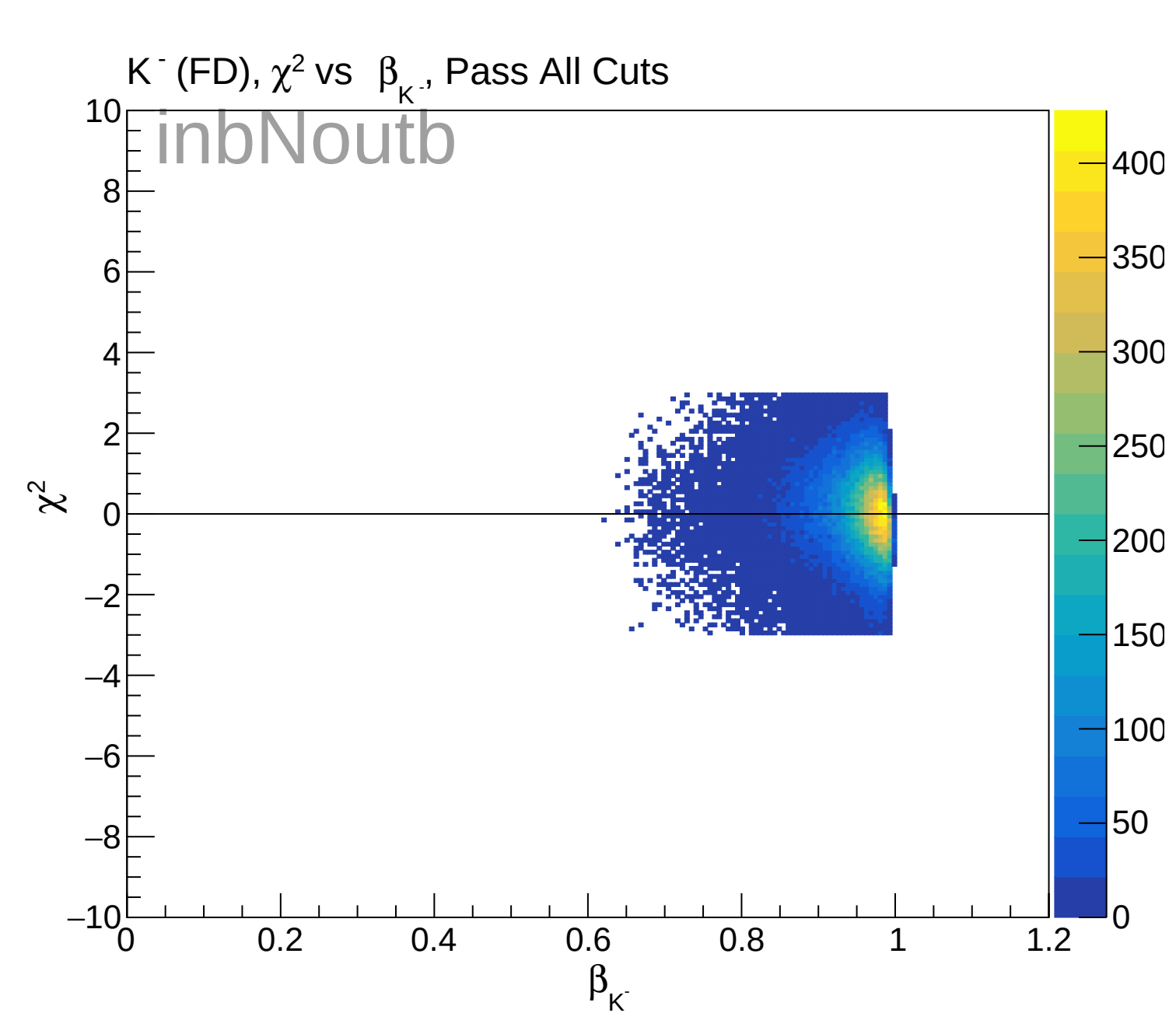

K⁻ (FD), Θ vs Vz, Pass All Cuts
inbNoutb
Vz_km (cm)
θ_km (deg)
15
10
5
0
−5
−10
−15
−20
0
5
10
15
20
25
30
35
40
45
50
40
30
20
10
0

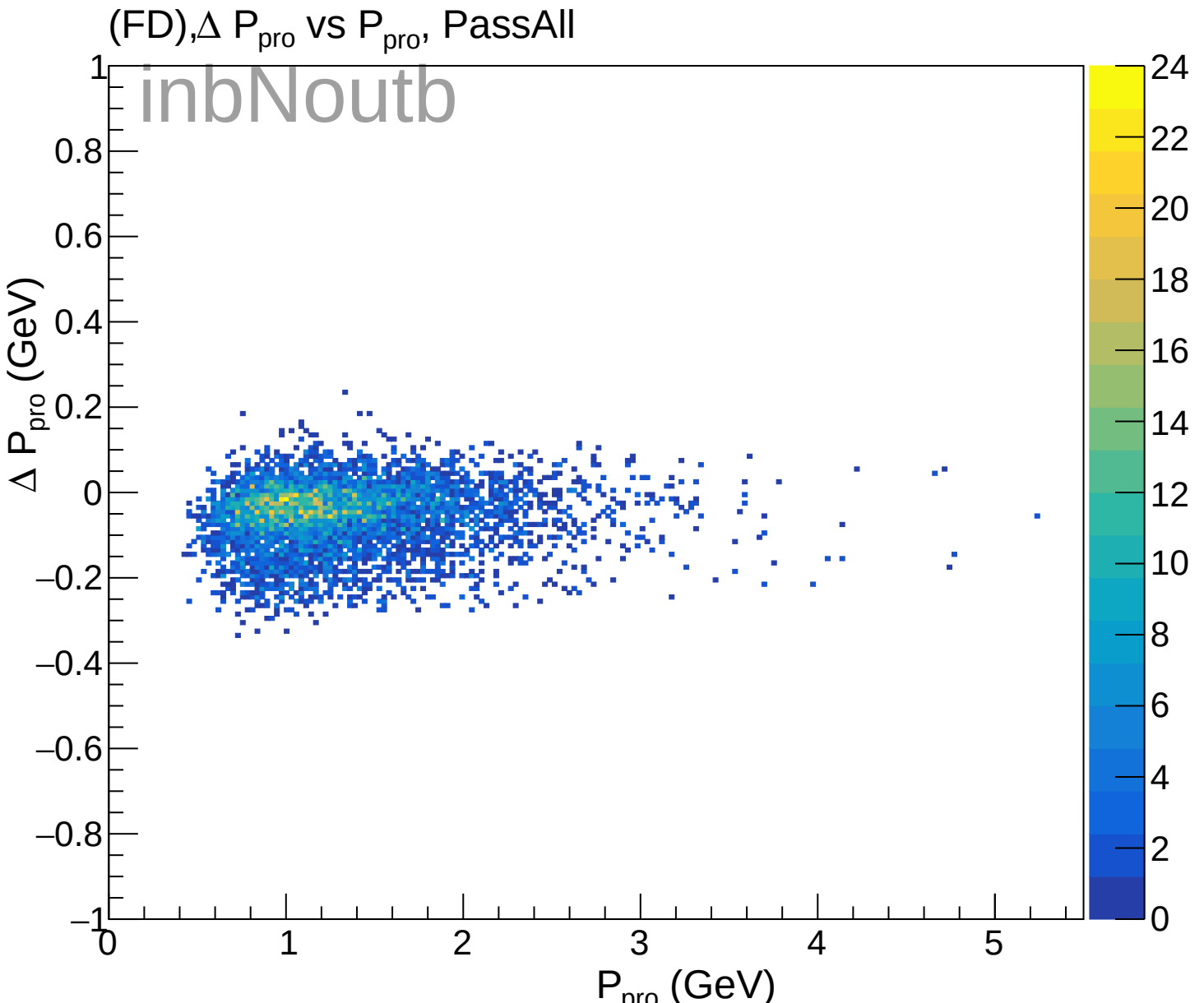

K⁻ (FD), P vs Vz, Pass All Cuts
inbNoutb
15
10
5
0
−5
−10
−15
−20
Vz_km (cm)
0
2
4
6
8
10
P_km (GeV)
100
80
60
40
20
0

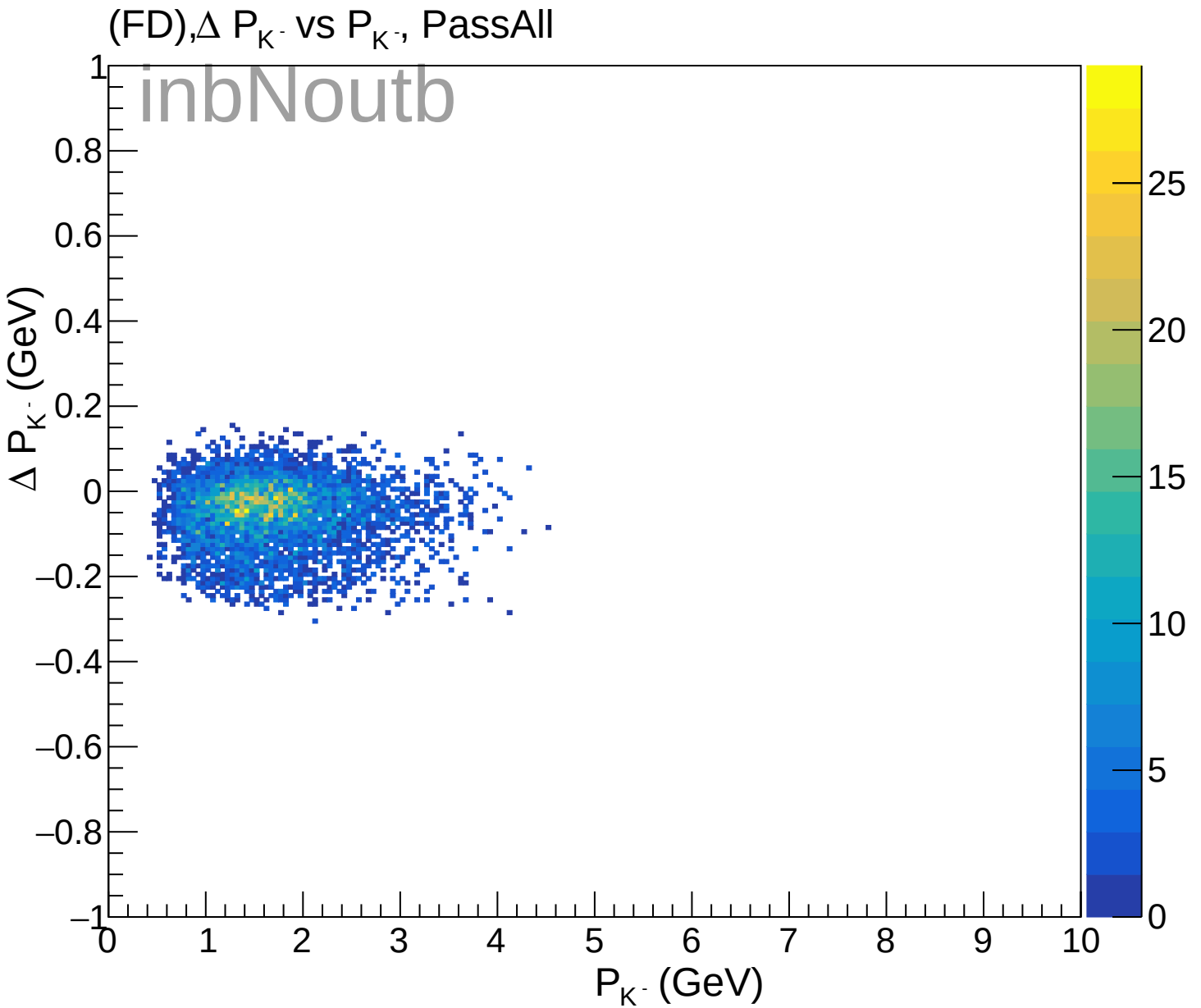

K⁻ (FD), P vs Δ Vz, Pass All Cuts
inbNoutb
Δ Vz (cm)
P_km (GeV)
20
15
10
5
0
−5
−10
−15
−20
0
2
4
6
8
10
140
120
100
80
60
40
20
0

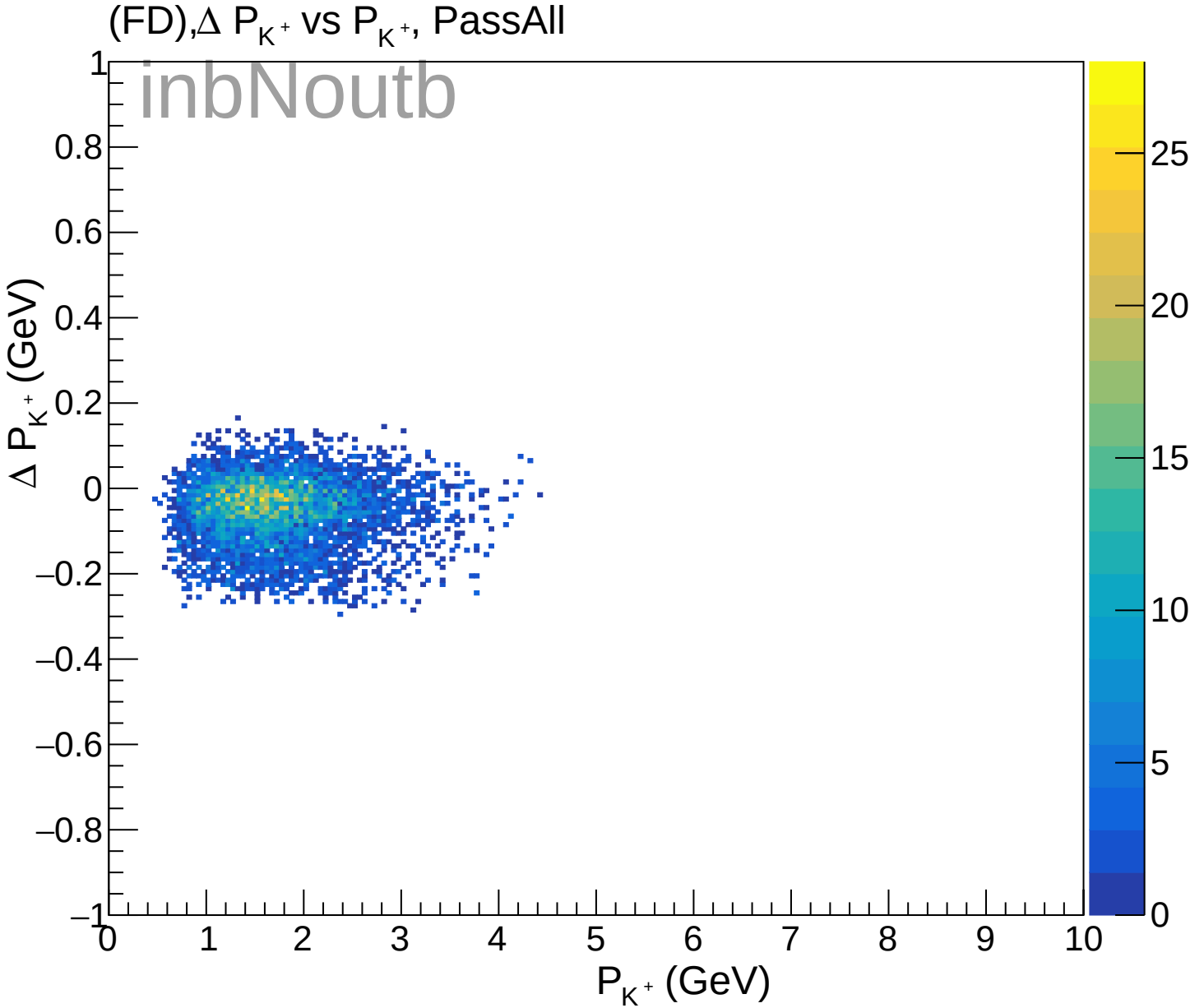

K⁻(FD), β vs P, Pass All Cuts
inbNoutb
1.2
1
0.8
0.6
0.4
0.2
0
β_K⁻
0
2
4
6
8
10
P_K⁻ (GeV)
300
250
200
150
100
500
0


K - (FD), χ2 vs P, Pass All Cuts
inbNoutb
χ2
P K- (GeV)
10
8
6
4
2
0
−2
−4
−6
−8
−10
0
2
4
6
8
10
140
120
100
80
60
40
20
0

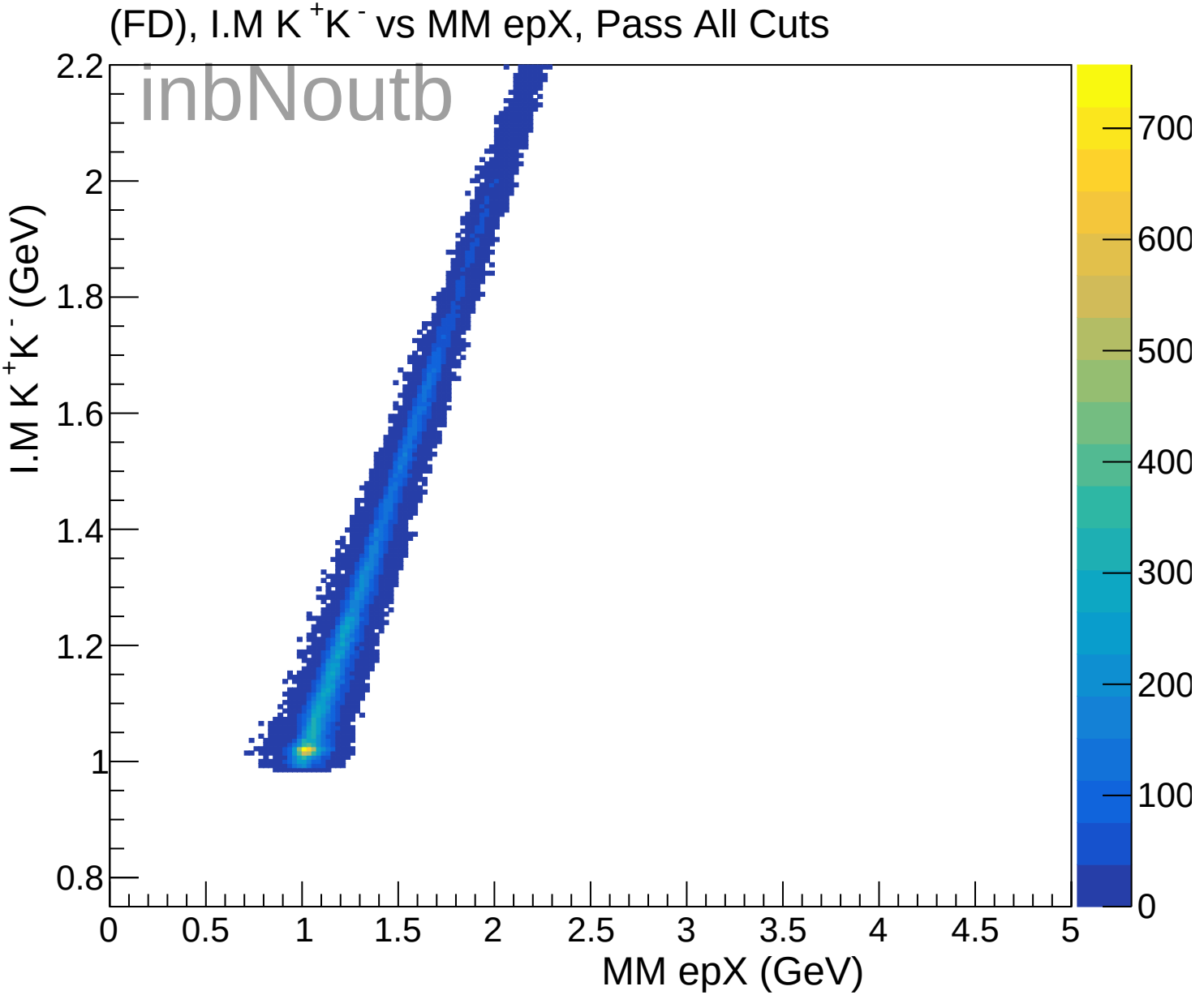

K⁻ (FD), χ² vs β_K⁻, Pass All Cuts
inbNoutb
χ²
β_K⁻
10
8
6
4
2
0
−2
−4
−6
−8
−10
0
0.2
0.4
0.6
0.8
1
1.2
400
350
300
250
200
150
100
50
0

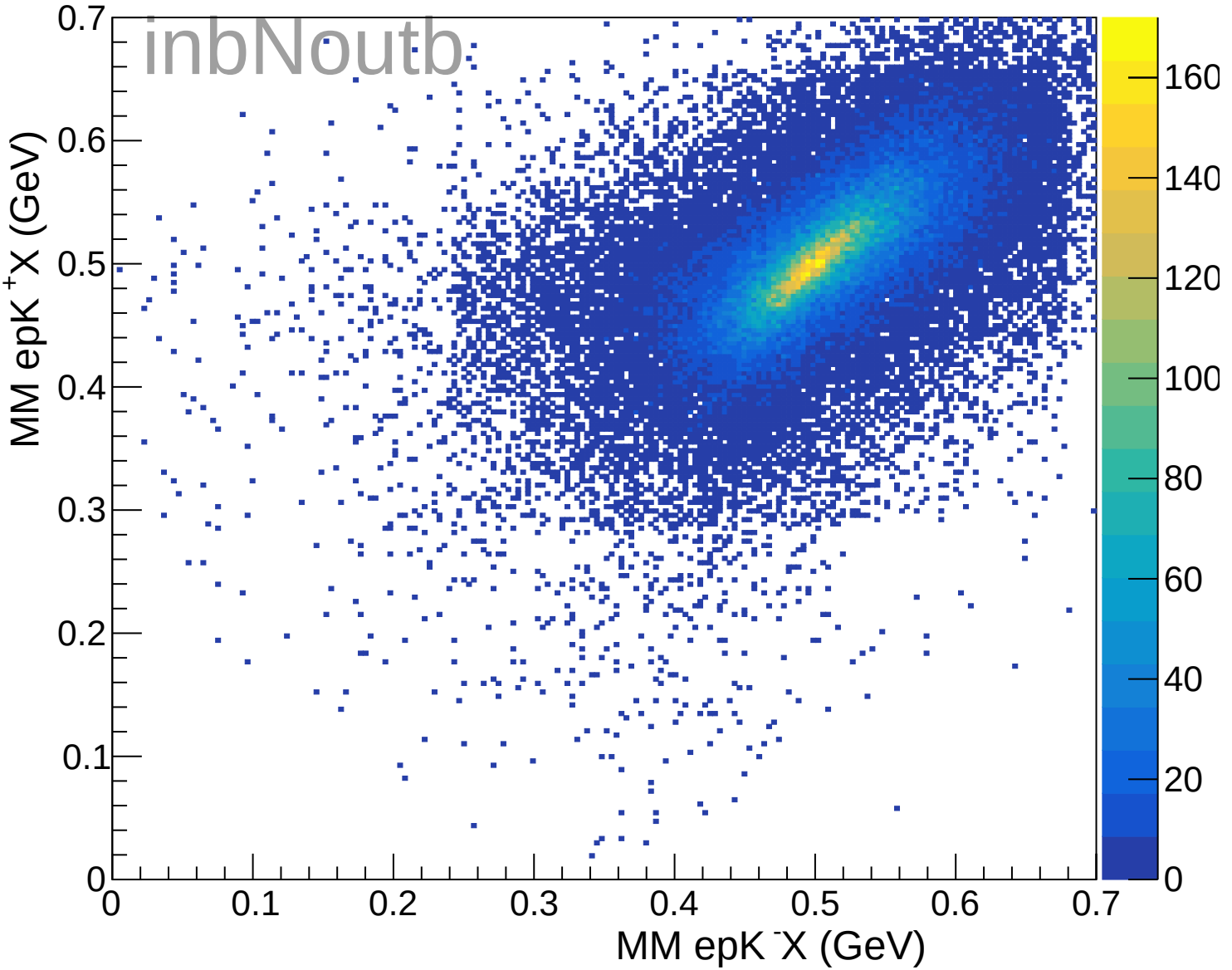

(FD),Δ P_pro vs P_pro, PassAll
inbNoutb
Δ P_pro (GeV)
P_pro (GeV)
1
0.8
0.6
0.4
0.2
0
–0.2
–0.4
–0.6
–0.8
–1
0
1
2
3
4
5
24
22
20
18
16
14
12
10
8
6
4
2
0

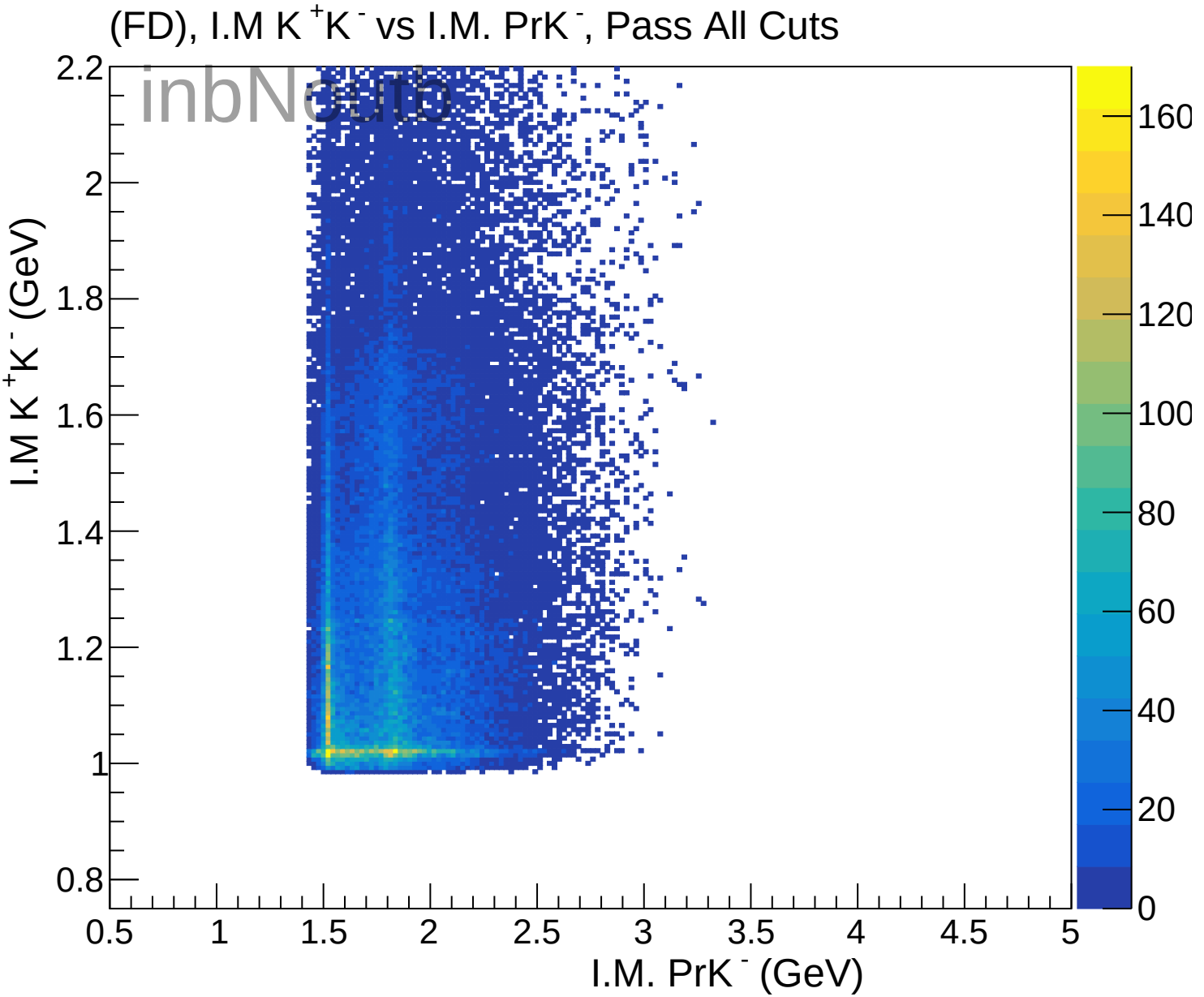

(FD),Δ P_K- vs P_K-, PassAll
inbNoutb
Δ P_K- (GeV)
P_K- (GeV)
1
0.8
0.6
0.4
0.2
0
–0.2
–0.4
–0.6
–0.8
–1
0
1
2
3
4
5
6
7
8
9
10
25
20
15
10
5
0

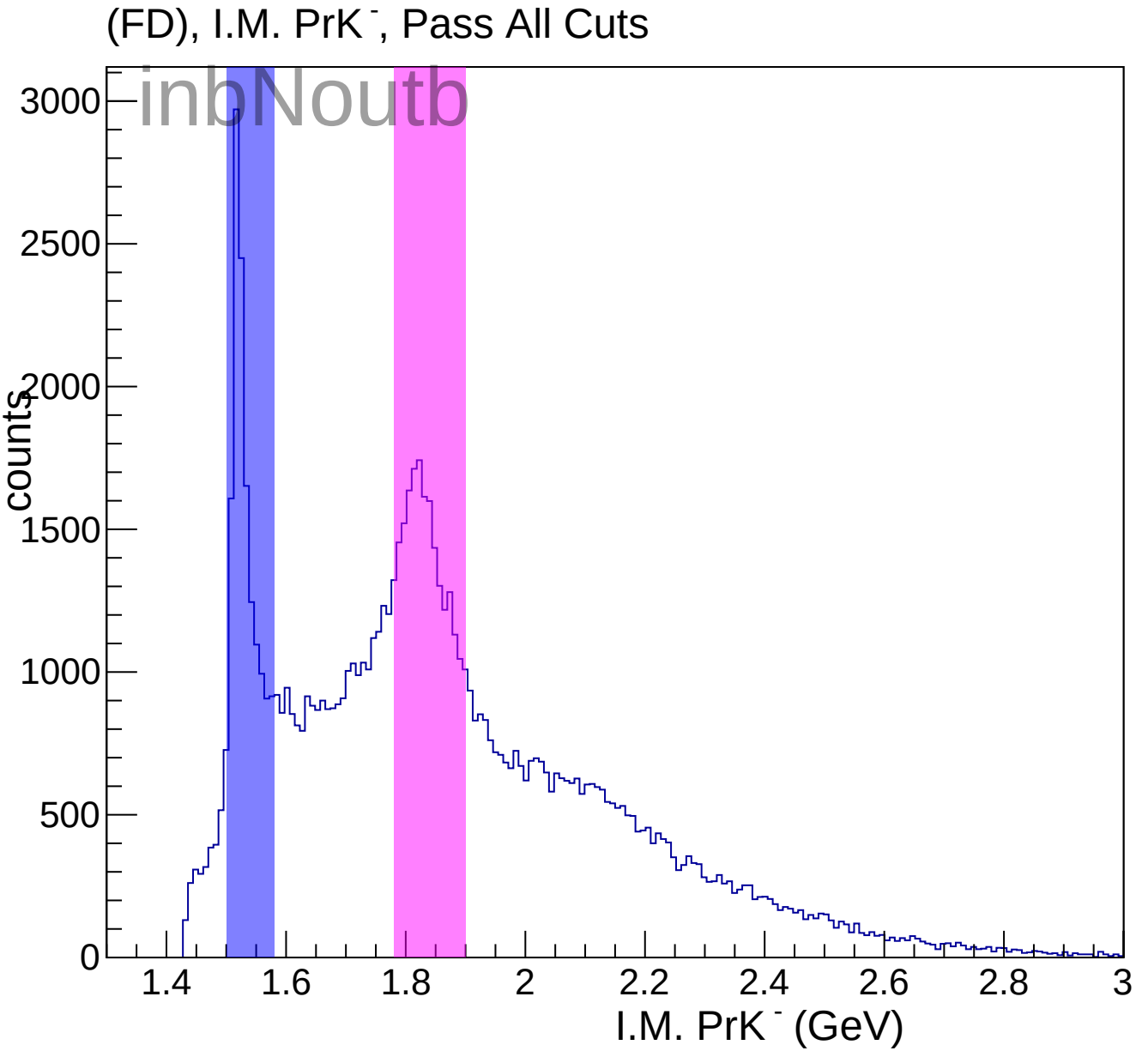

(FD),Δ P_K+ vs P_K+, PassAll
inbNoutb
Δ P_K+ (GeV)
P_K+ (GeV)
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
0
1
2
3
4
5
6
7
8
9
10
25
20
15
10
5
0

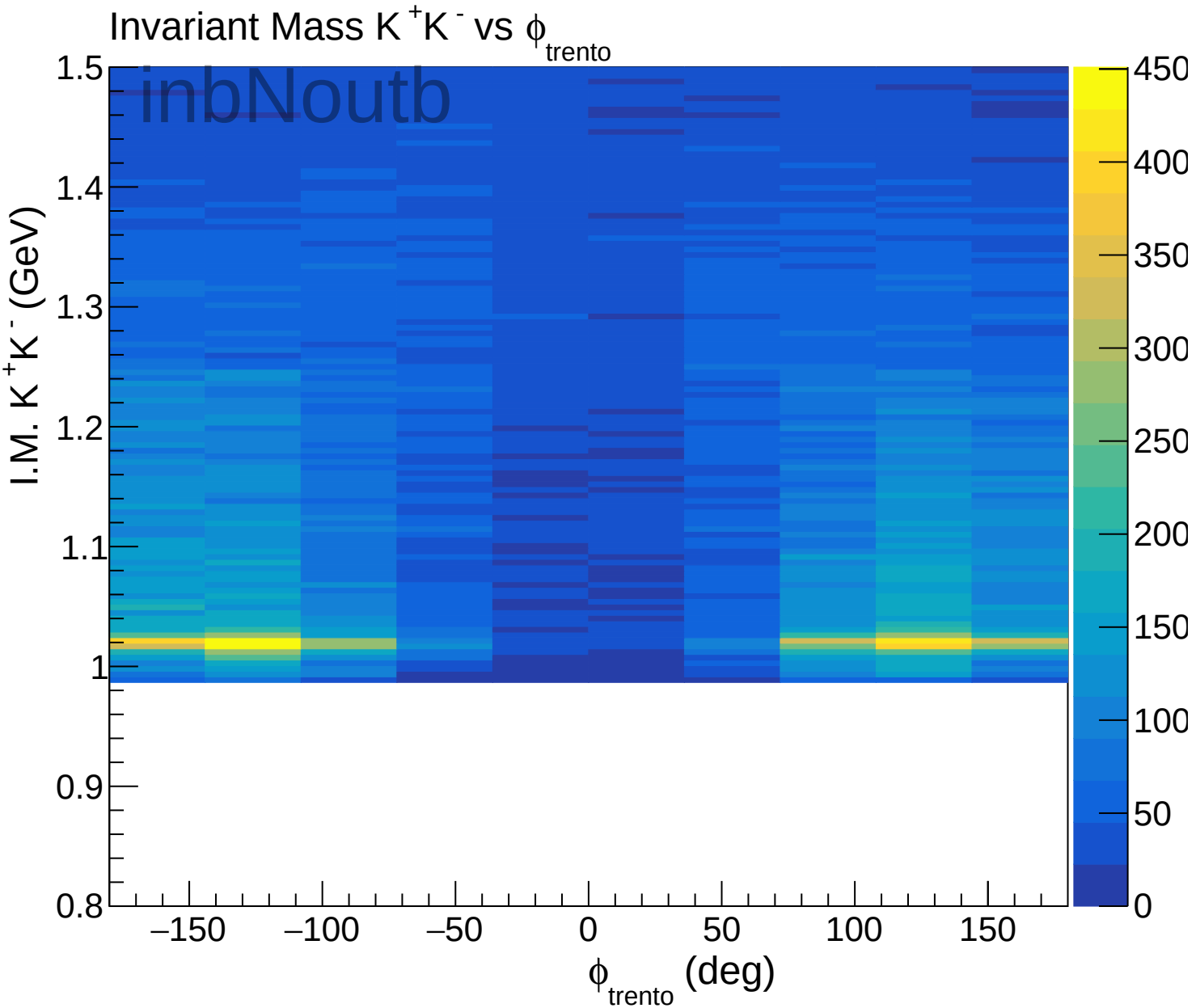
Missing Mass Pass All Add.


(FD), I.M K+K- vs MM epX, Pass All Cuts
inbNoutb
I.M K+K- (GeV)
MM epX (GeV)
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
700
600
500
400
300
200
100
0

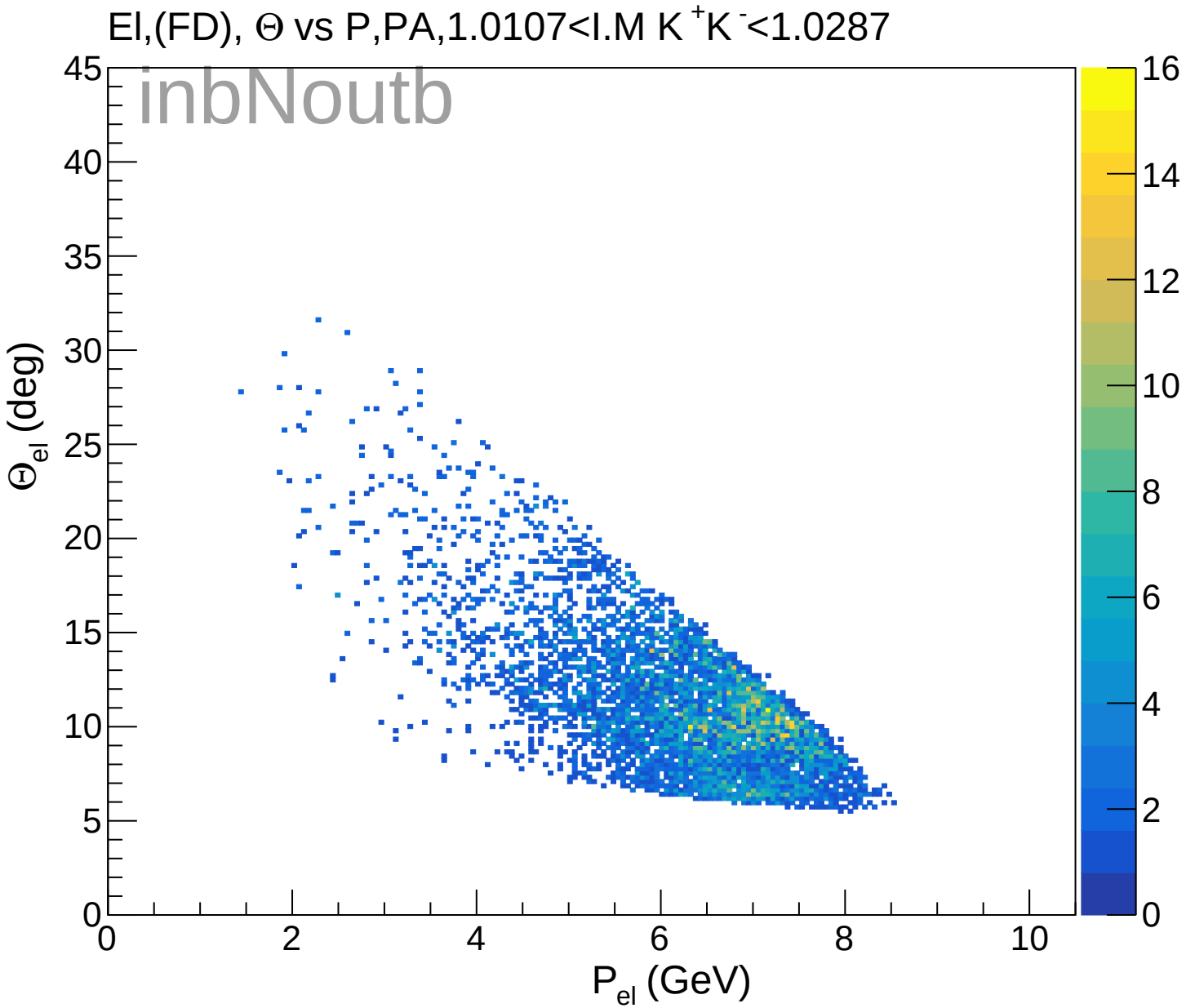

(FD),MM epK +X vs MM epK -X, Pass All Cuts
inbNoutb
MM epK +X (GeV)
MM epK -X (GeV)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
20
40
60
80
100
120
140
160

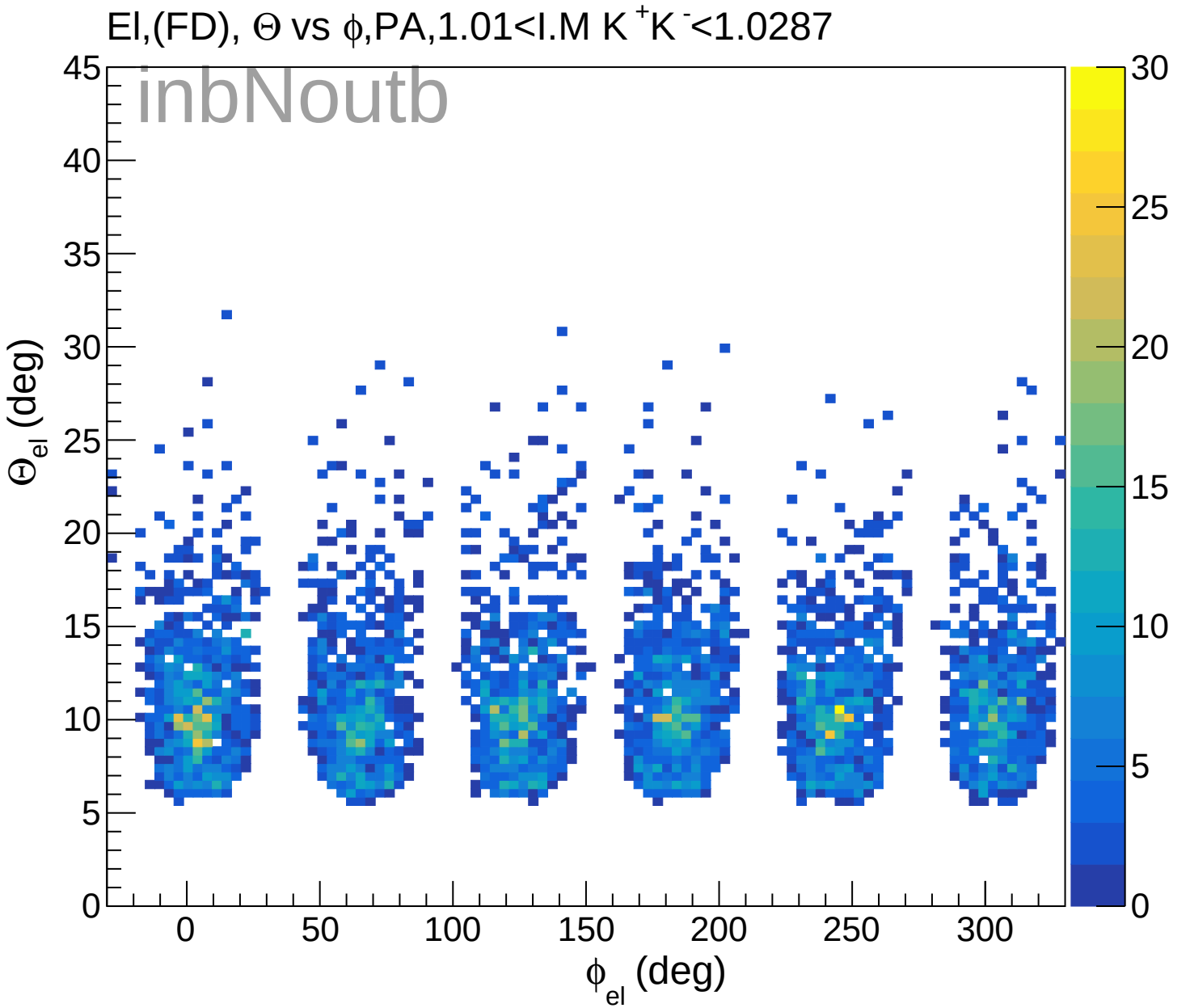

(FD), I.M K+K- vs I.M. PrK-, Pass All Cuts
inbNeuro
I.M K+K- (GeV)
I.M. PrK- (GeV)
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
160
140
120
100
80
60
40
20
0

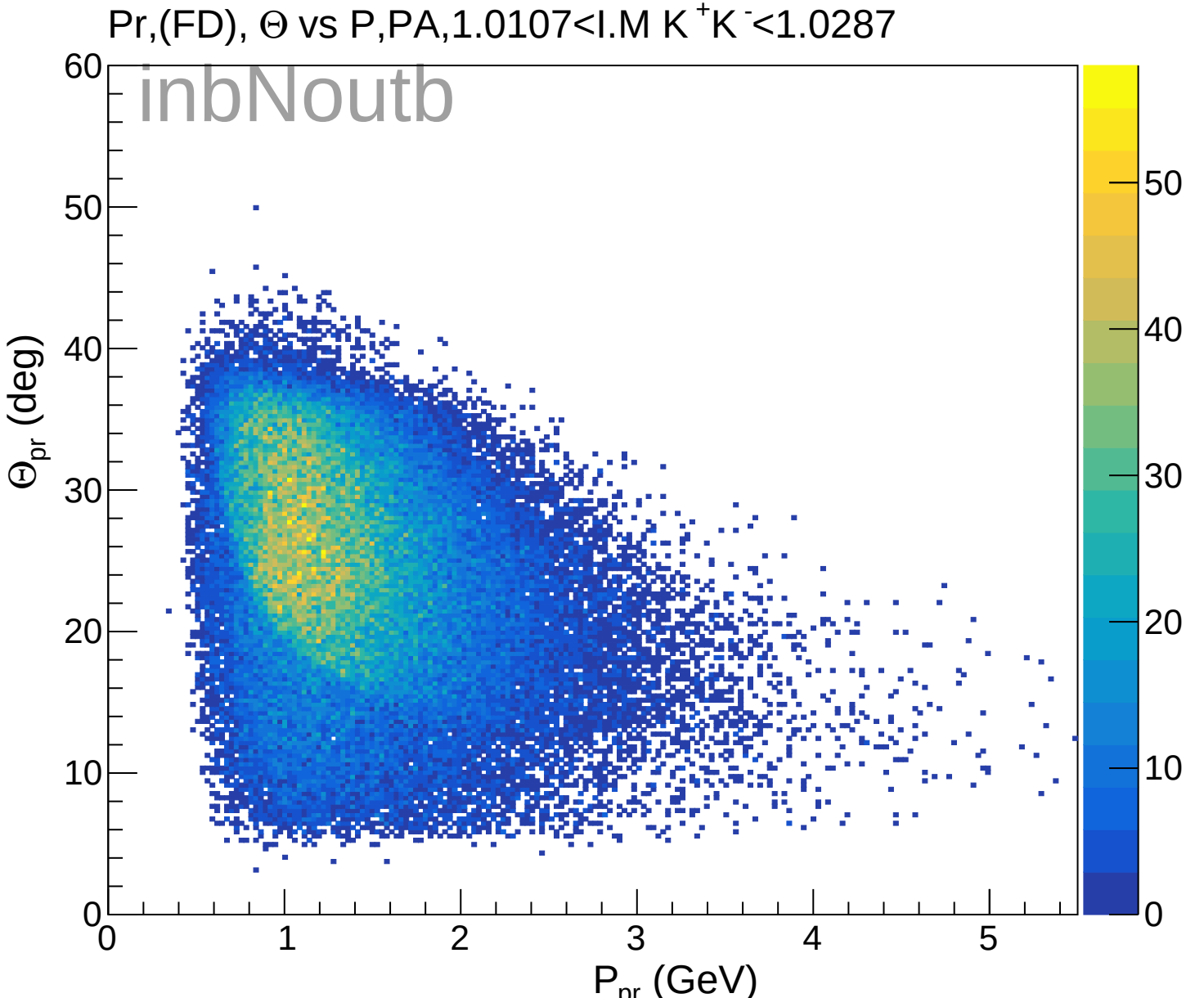

(FD), I.M. PrK⁻, Pass All Cuts
inbNoutb
counts
3000
2500
2000
1500
1000
500
0
1.4
1.6
1.8
2
2.2
2.4
2.6
2.8
3
I.M. PrK⁻ (GeV)

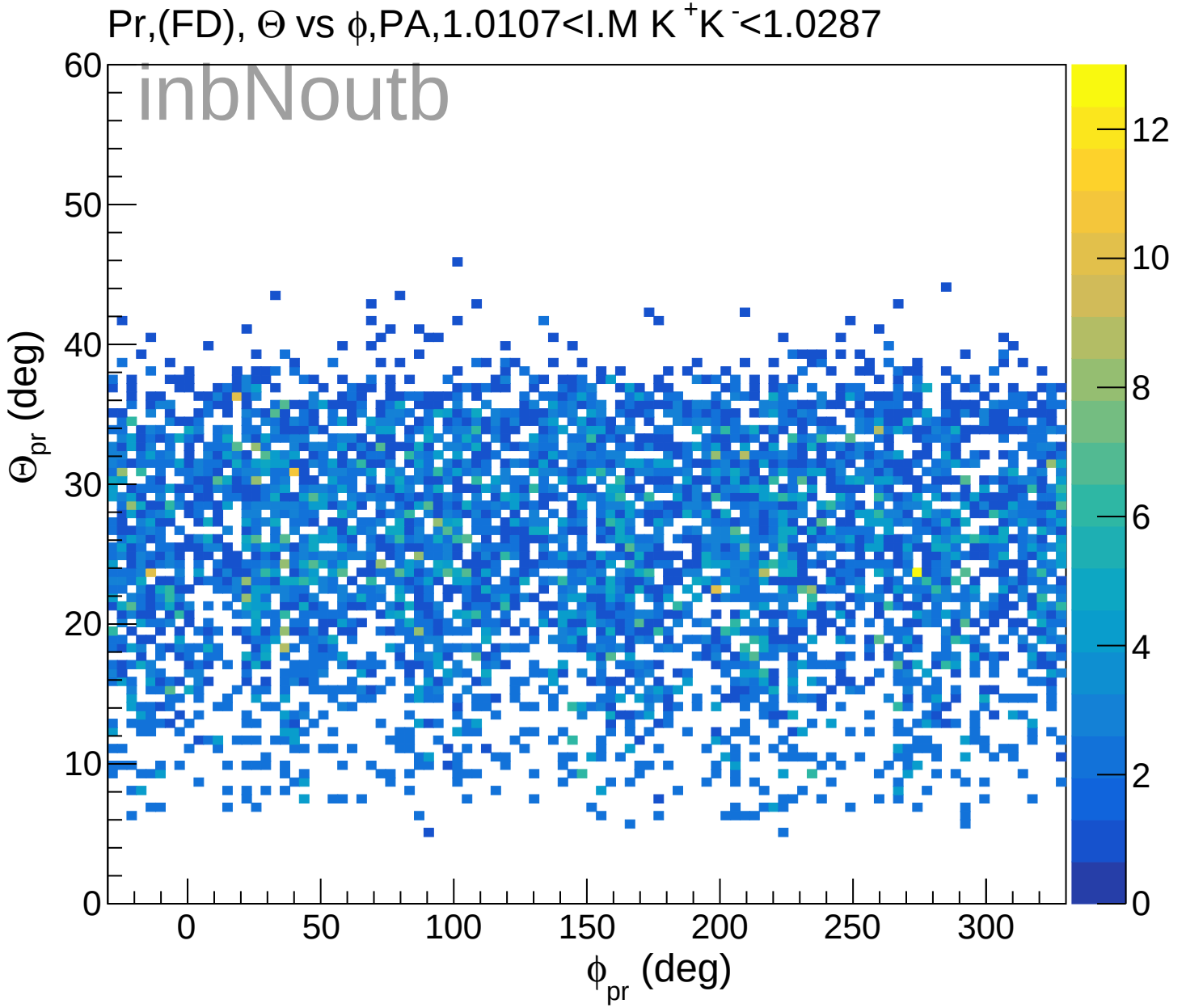

Invariant Mass K+K- vs ϕtrento
inbNoutb
I.M. K+K- (GeV)
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
–150
–100
–50
0
50
100
150
ϕtrento (deg)
450
400
350
300
250
200
150
100
50
0

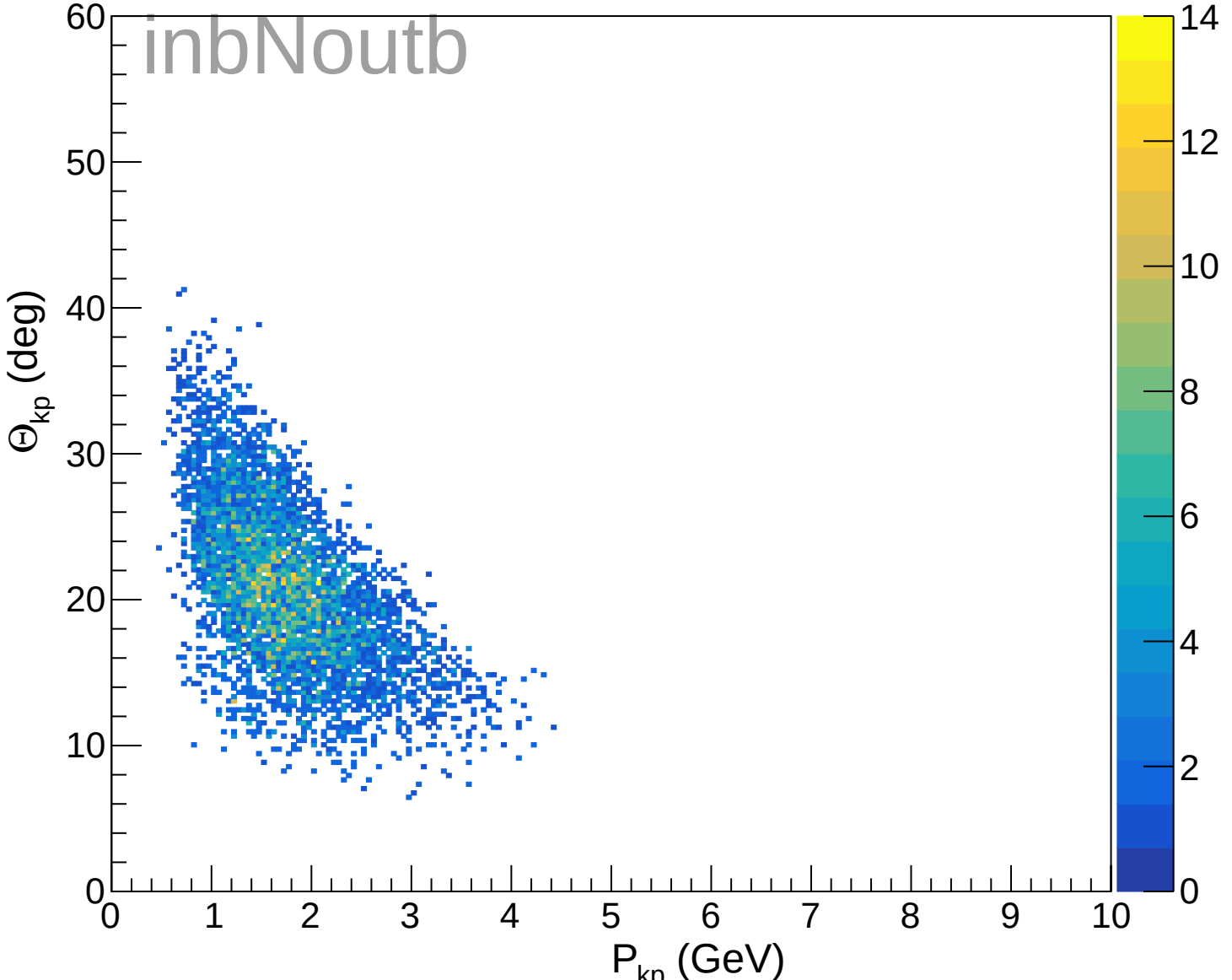
Pass All & Phi Cut.

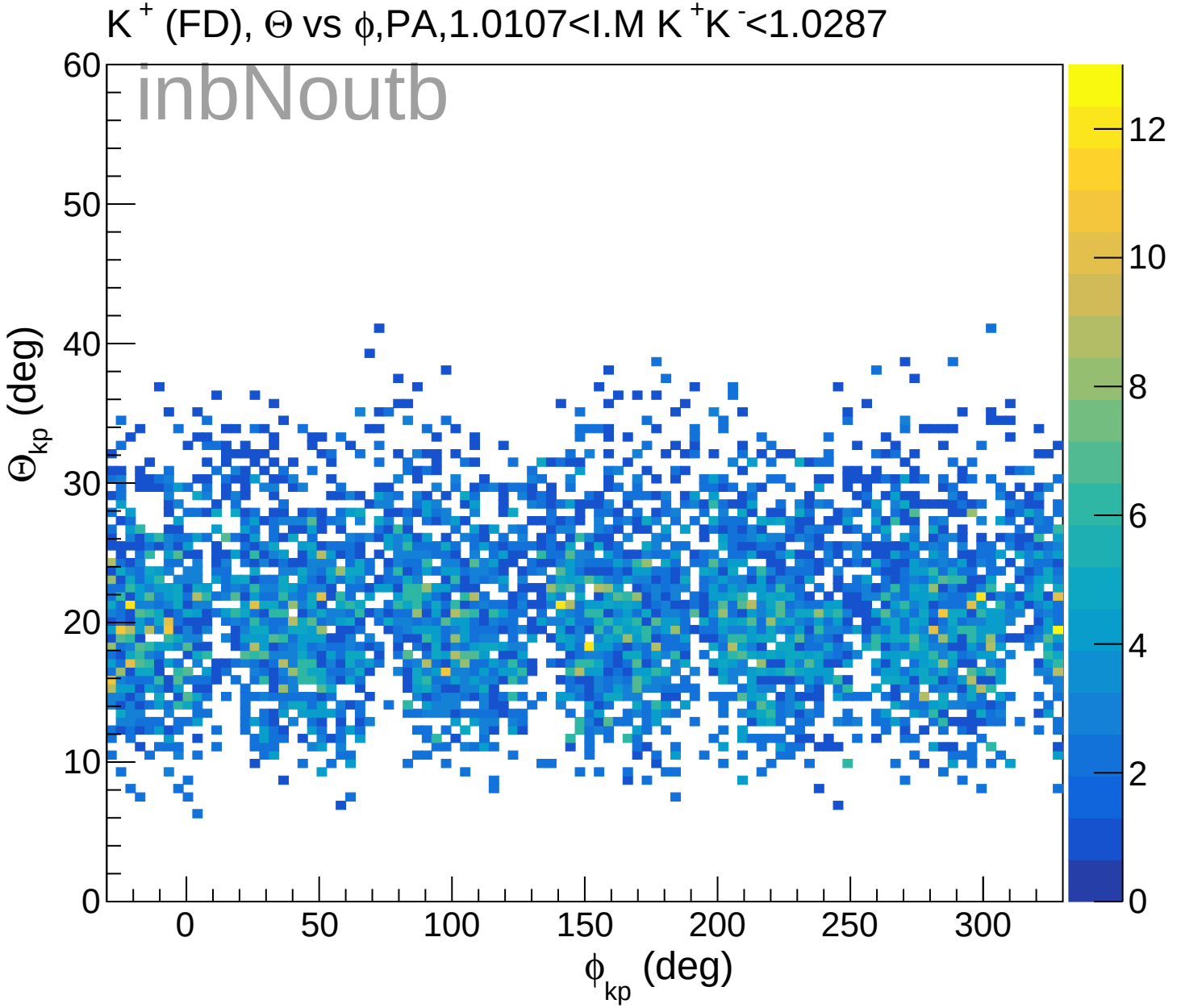

El,(FD), Θ vs P,PA,1.0107<I.M K+K-<1.0287
inbNoutb
Θel (deg)
Pel (GeV)
0
5
10
15
20
25
30
35
40
45
0
2
4
6
8
10
0
2
4
6
8
10
12
14
16

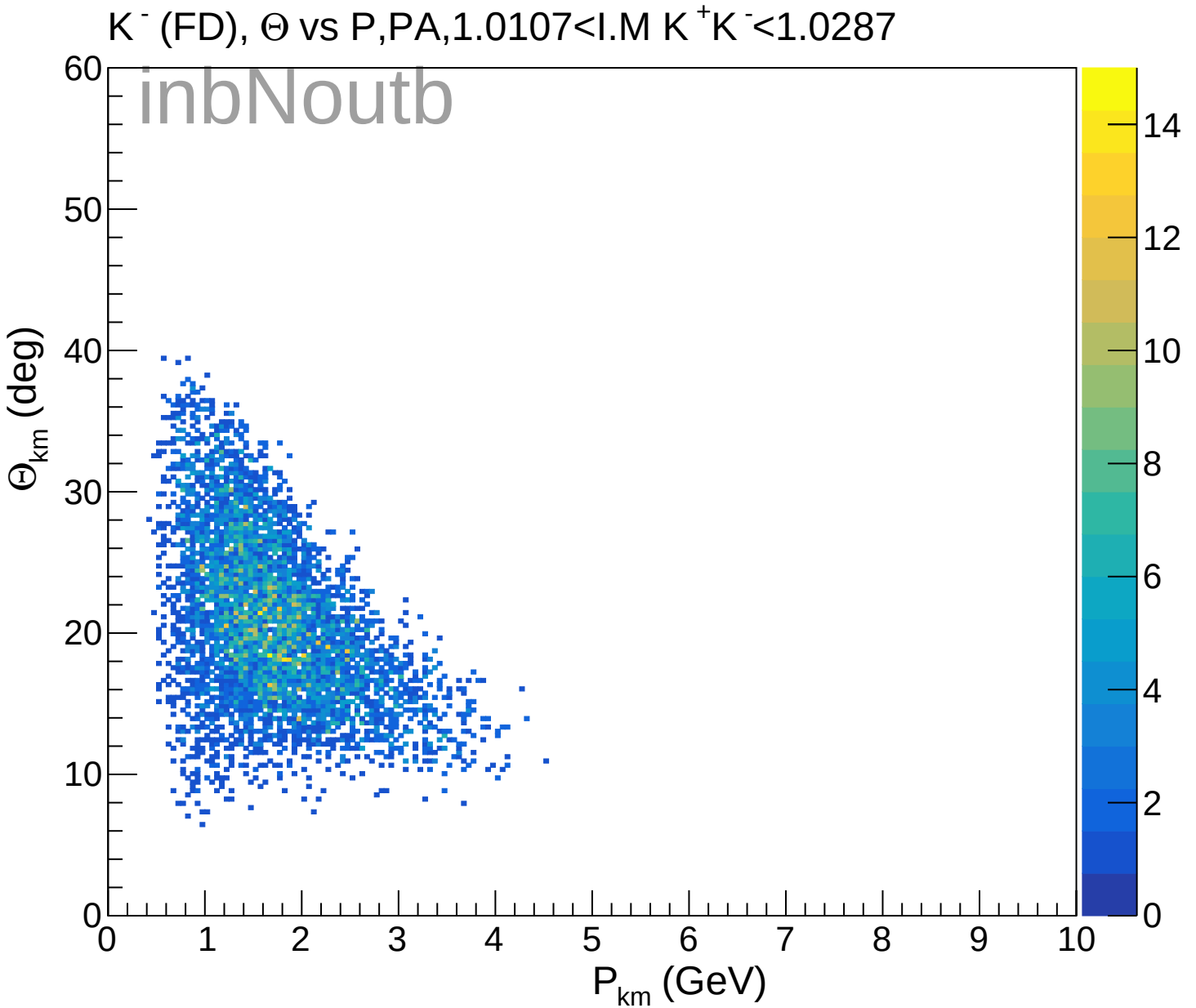

El,(FD), Θ vs ϕ,PA,1.01<I.M K+K-<1.0287
inbNoutb
Θel (deg)
ϕel (deg)
0
5
10
15
20
25
30
35
40
45
0
50
100
150
200
250
300
0
5
10
15
20
25
30

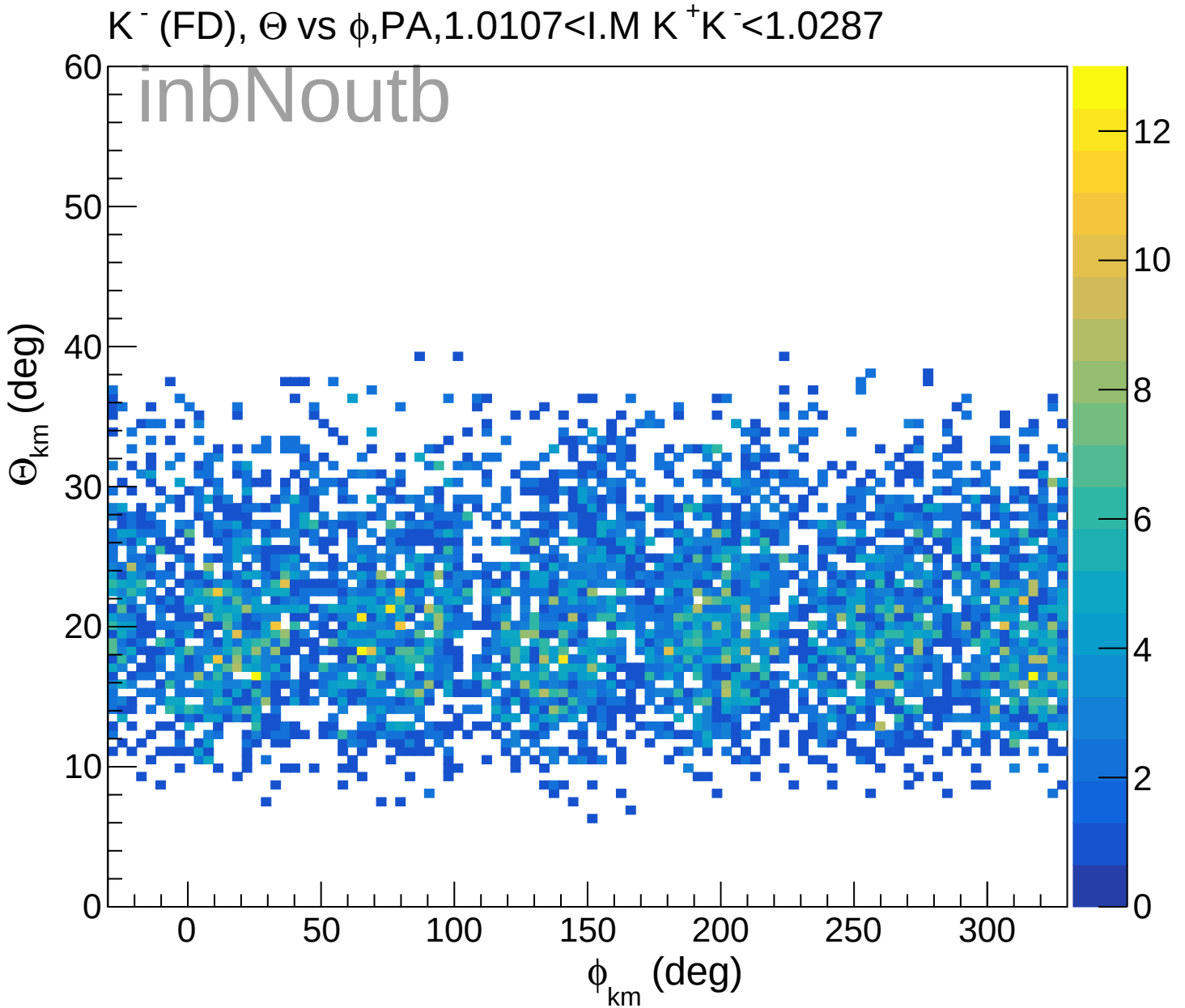

Pr,(FD), Θ vs P,PA,1.0107<I.M K+K-<1.0287
inbNoutb
Θpr (deg)
Ppr (GeV)
0
10
20
30
40
50
60
1
2
3
4
5

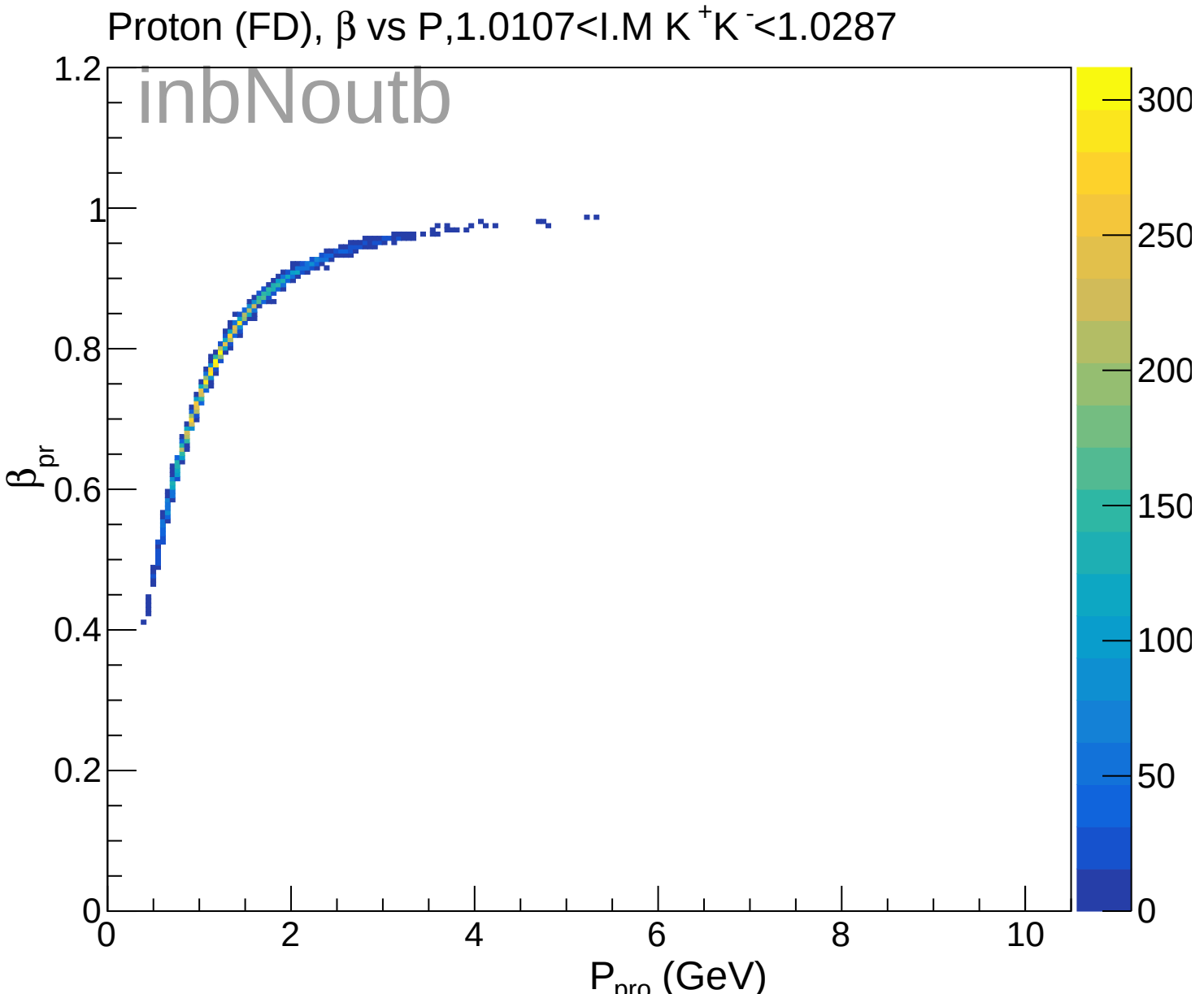

Pr,(FD), Θ vs ϕ,PA,1.0107<I.M K+K-<1.0287
inbNoutb
Θpr (deg)
ϕpr (deg)
0
10
20
30
40
50
60
0
50
100
150
200
250
300
0
2
4
6
8
10
12

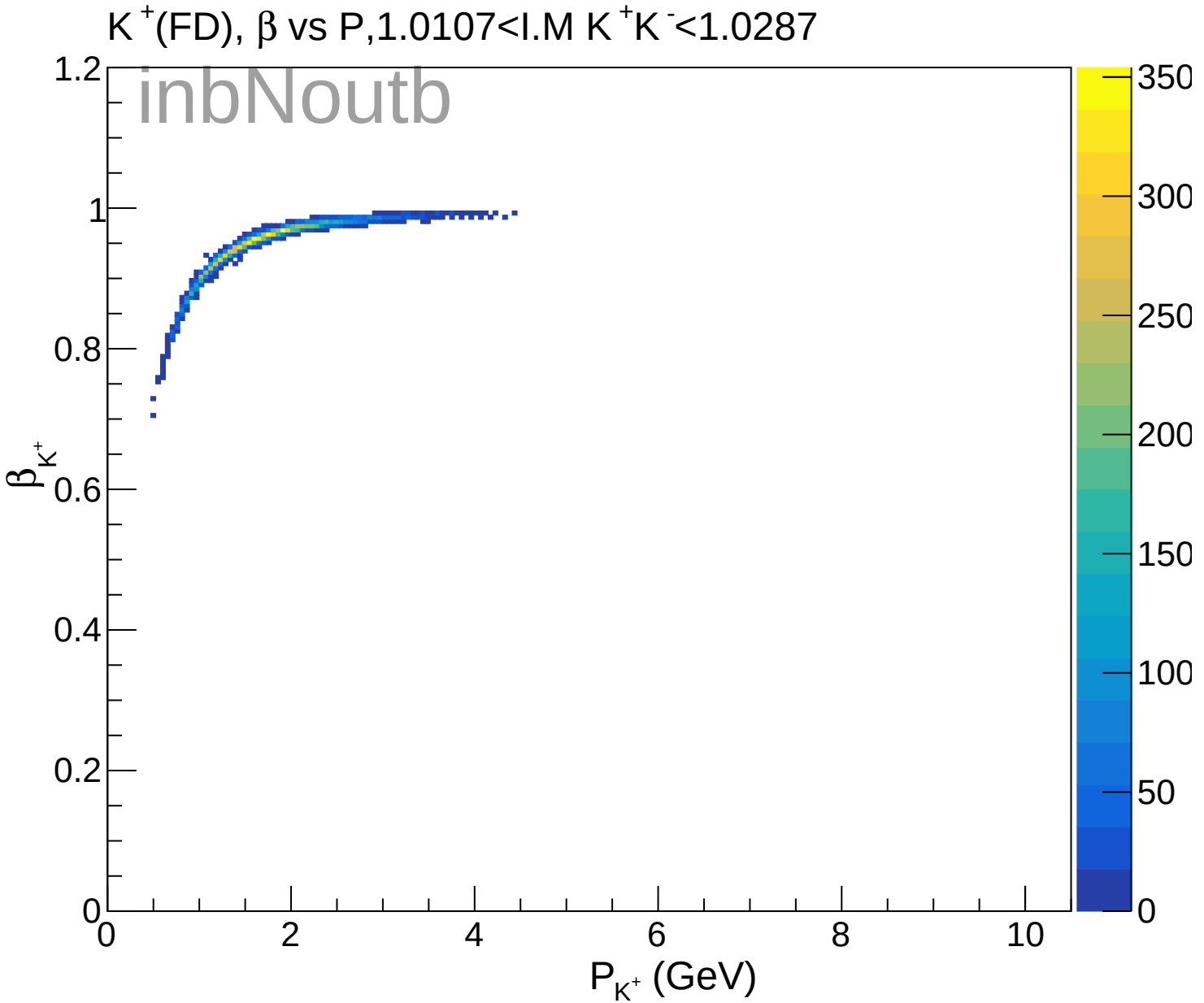

Pr, (FD), Θ vs P,PA,1.0107<I.M K+K-<1.0287
inbNoutb
Θkp (deg)
Pkp (GeV)
0
10
20
30
40
50
60
0
1
2
3
4
5
6
7
8
9
10
0
2
4
6
8
10
12
14

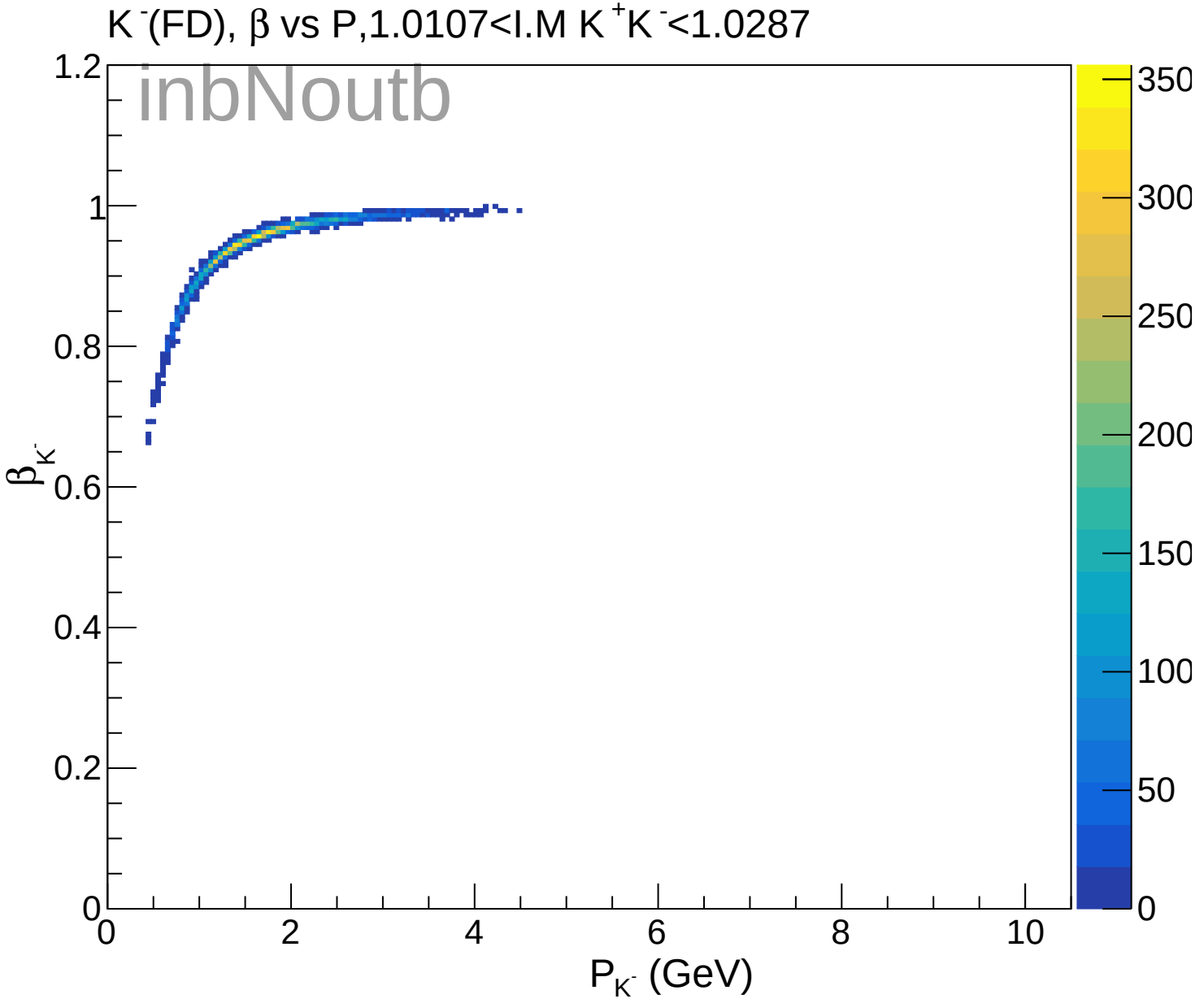

K + (FD), Θ vs ϕ,PA,1.0107<I.M K +K -<1.0287
inbNoutb
Θkp (deg)
ϕkp (deg)
0
10
20
30
40
50
60
0
50
100
150
200
250
300
0
2
4
6
8
10
12

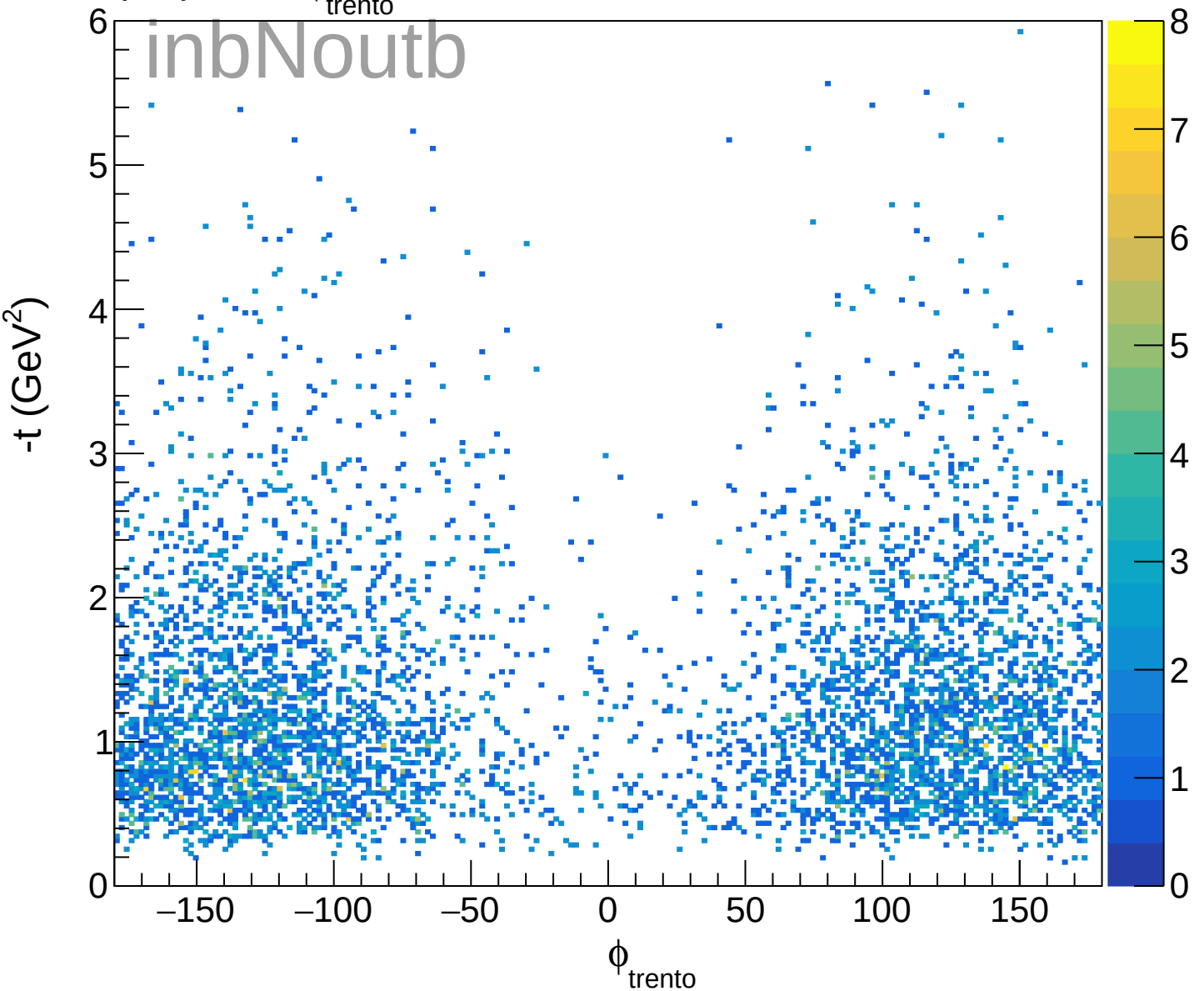

K - (FD), Θ vs P,PA,1.0107<I.M K +K -<1.0287
inbNoutb
Θkm (deg)
Pkm (GeV)
0
10
20
30
40
50
60
0
1
2
3
4
5
6
7
8
9
10
0
2
4
6
8
10
12
14

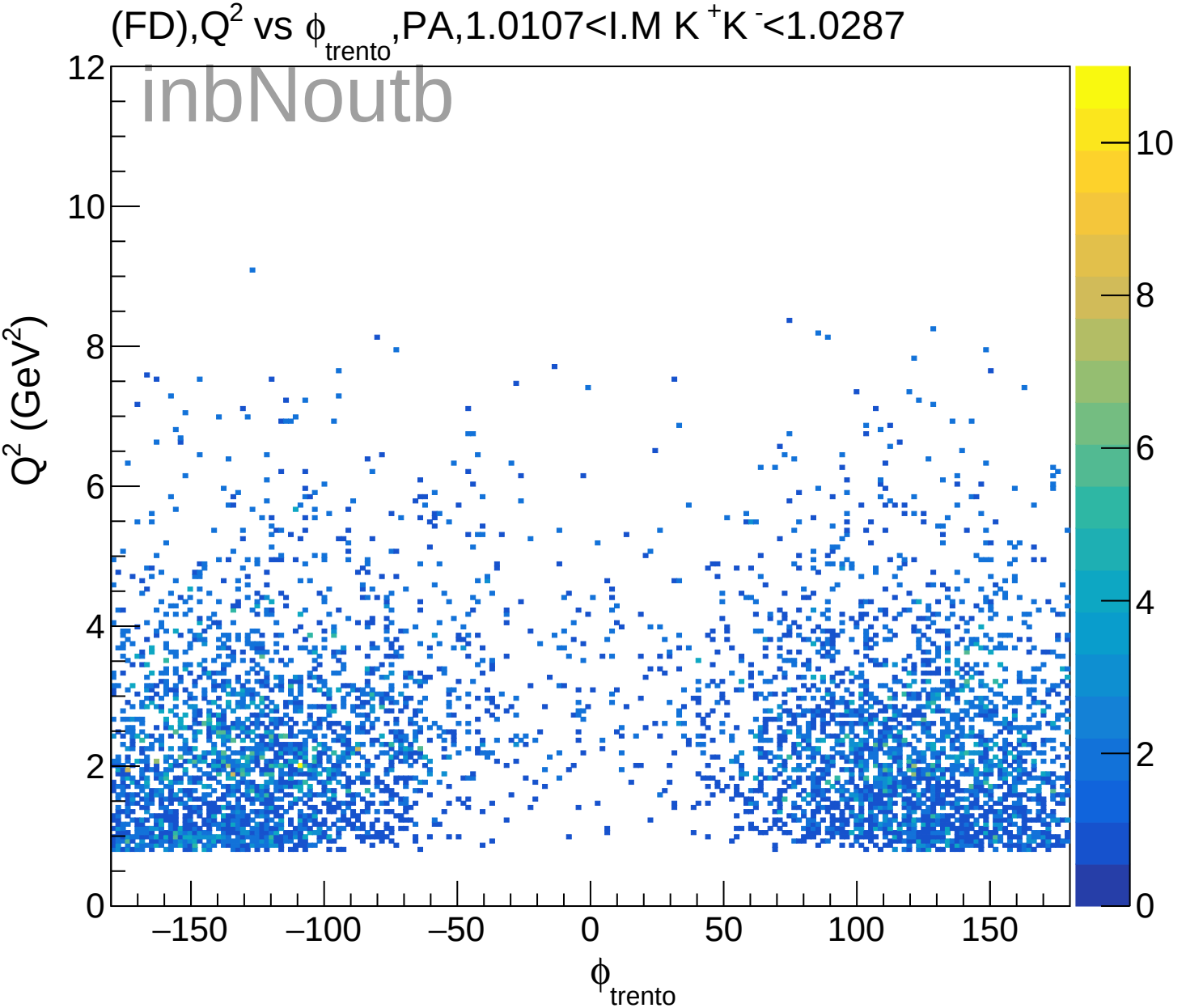

K - (FD), Θ vs ϕ,PA,1.0107<I.M K + K -<1.0287
inbNoutb
Θ km (deg)
ϕ km (deg)
0
10
20
30
40
50
60
0
50
100
150
200
250
300
0
2
4
6
8
10
12

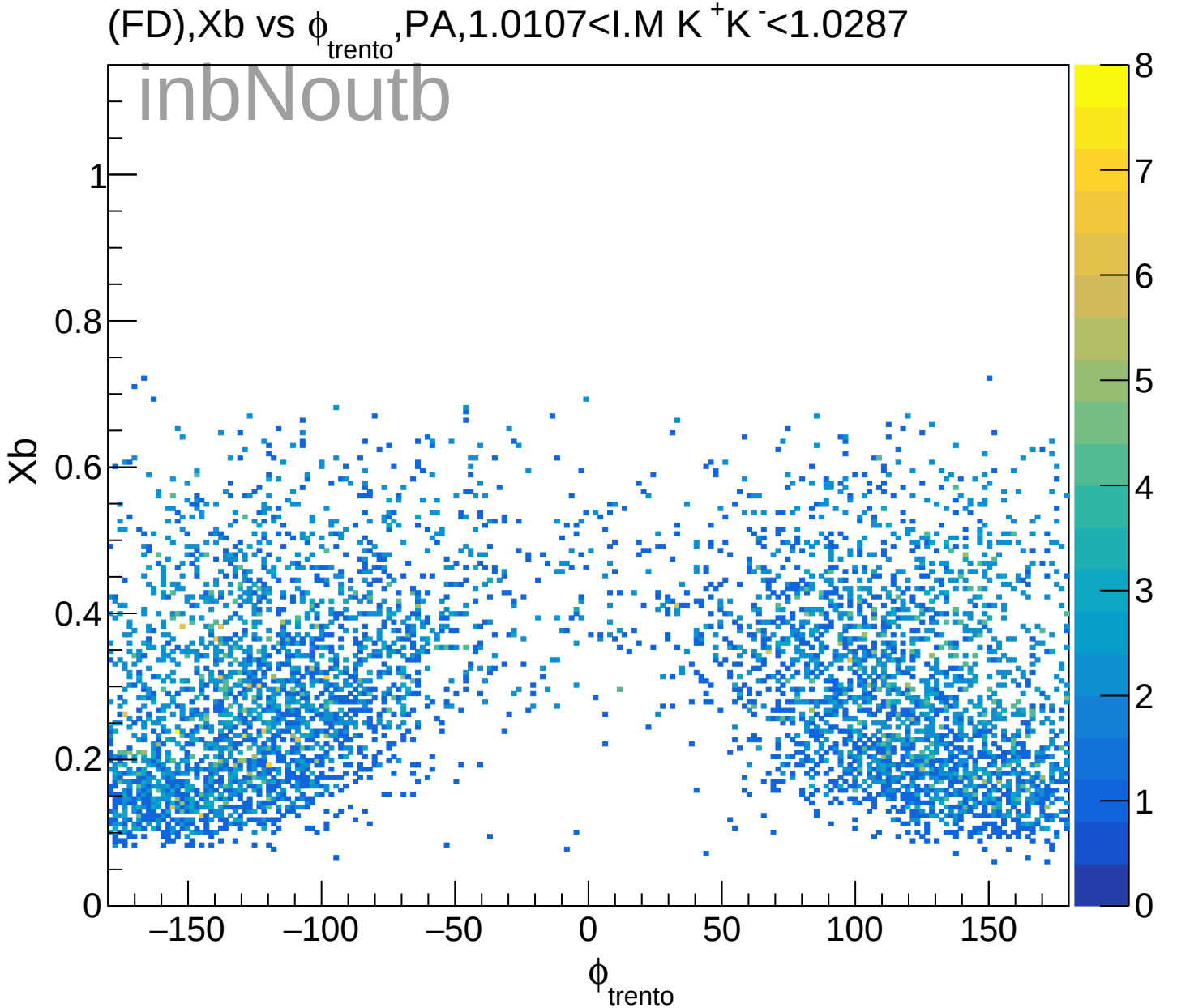

Proton (FD), β vs P,1.0107<I.M K+K-<1.0287
inbNoutb
1.2
1
0.8
0.6
0.4
0.2
0
βpr
0
2
4
6
8
10
Ppro (GeV)
300
250
200
150
100
50
0

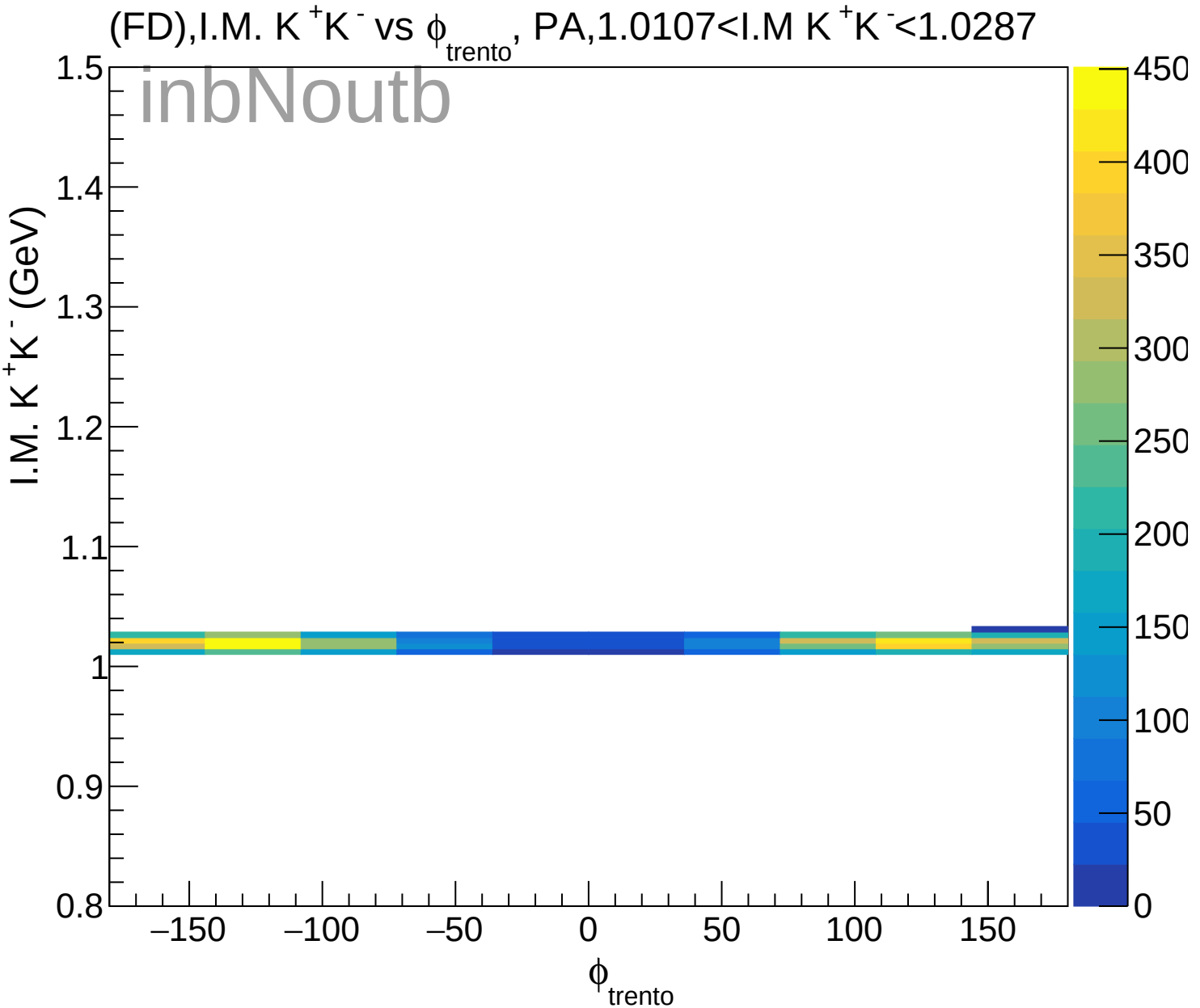

K+(FD), β vs P,1.0107<I.M K+K-<1.0287
inbNoutb
1.2
1
0.8
0.6
0.4
0.2
0
βK+
0
2
4
6
8
10
PK+ (GeV)
350
300
250
200
150
100
50
0

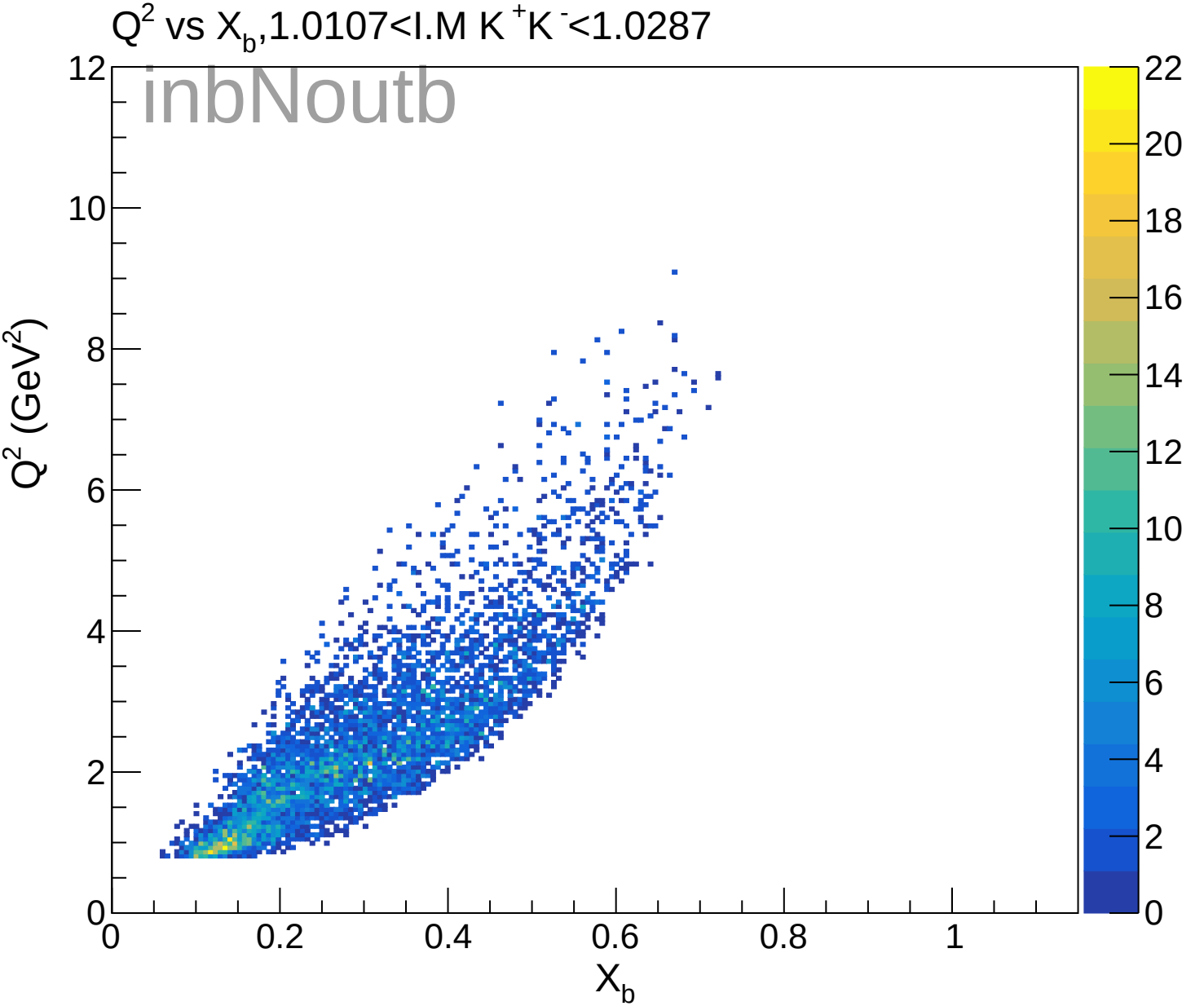

K⁻(FD), β vs P,1.0107<I.M K⁺K⁻<1.0287
inbNoutb
1.2
1
0.8
0.6
0.4
0.2
0
β_K⁻
0
2
4
6
8
10
P_K⁻ (GeV)
350
300
250
200
150
100
50
0

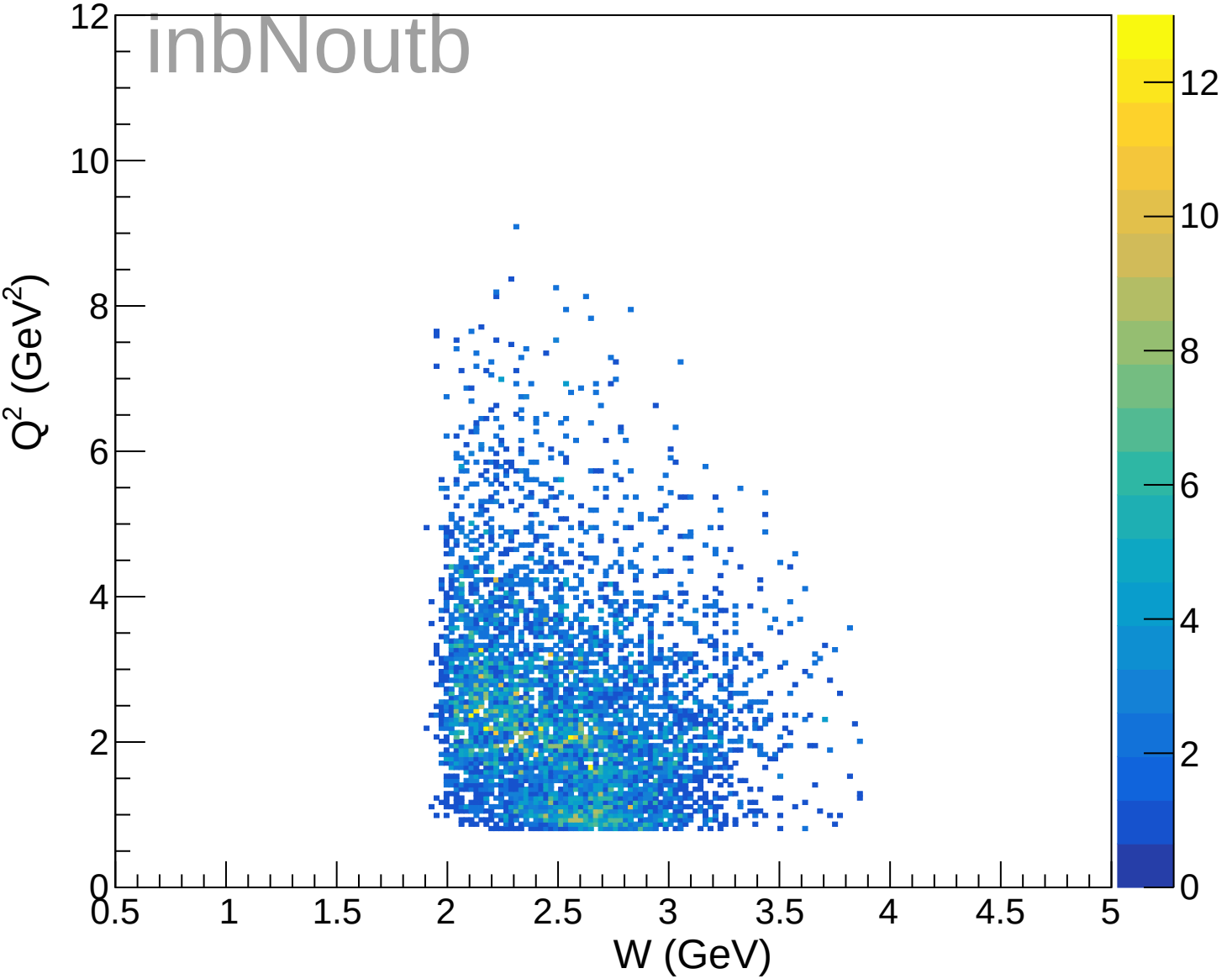

(FD), -t vs ϕ_{trento},PA,1.0107<I.M K^+K^-<1.0287
inbNoutb
-t (GeV^2)
ϕ_{trento}
0
1
2
3
4
5
6
–150
–100
–50
0
50
100
150
0
1
2
3
4
5
6
7
8

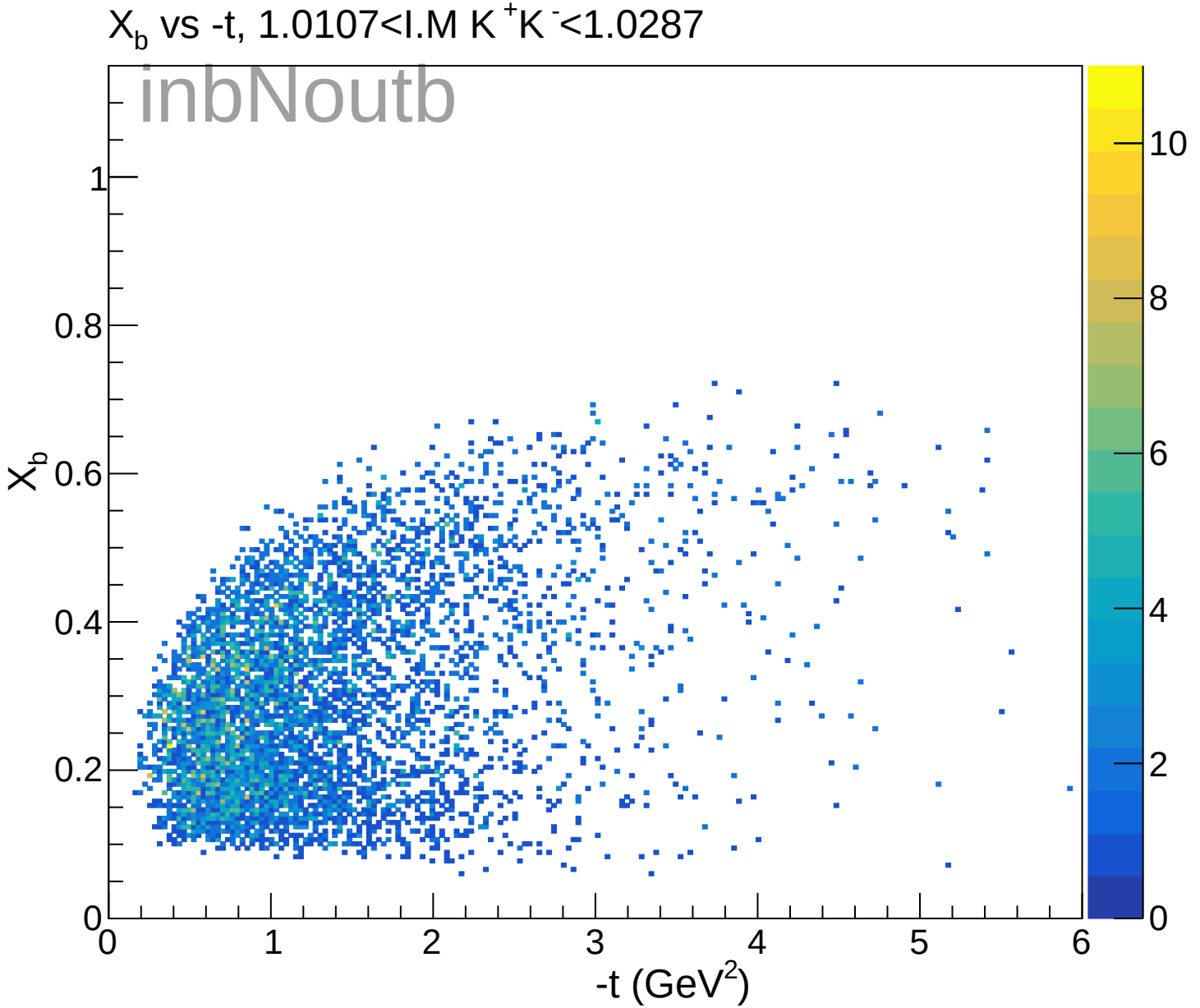

(FD),Q2 vs ϕtrento,PA,1.0107<I.M K+K-<1.0287
inbNoutb
Q2 (GeV2)
ϕtrento
0
2
4
6
8
10
12
–150
–100
–50
0
50
100
150

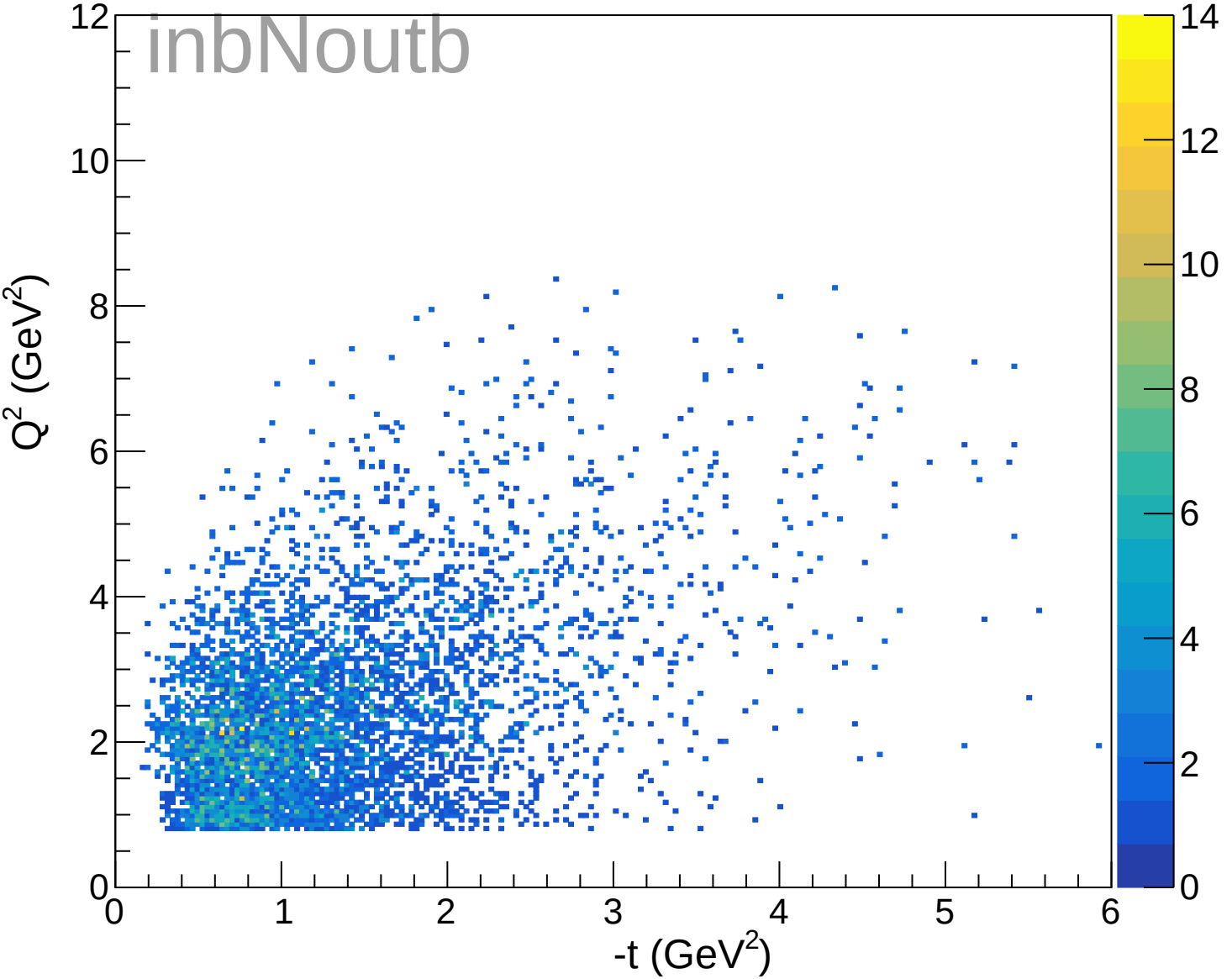

(FD),Xb vs ϕ_{trento},PA,1.0107<I.M K^+K^-<1.0287
inbNoutb
Xb
ϕ_{trento}
0
0.2
0.4
0.6
0.8
1
–150
–100
–50
0
50
100
150
0
1
2
3
4
5
6
7
8

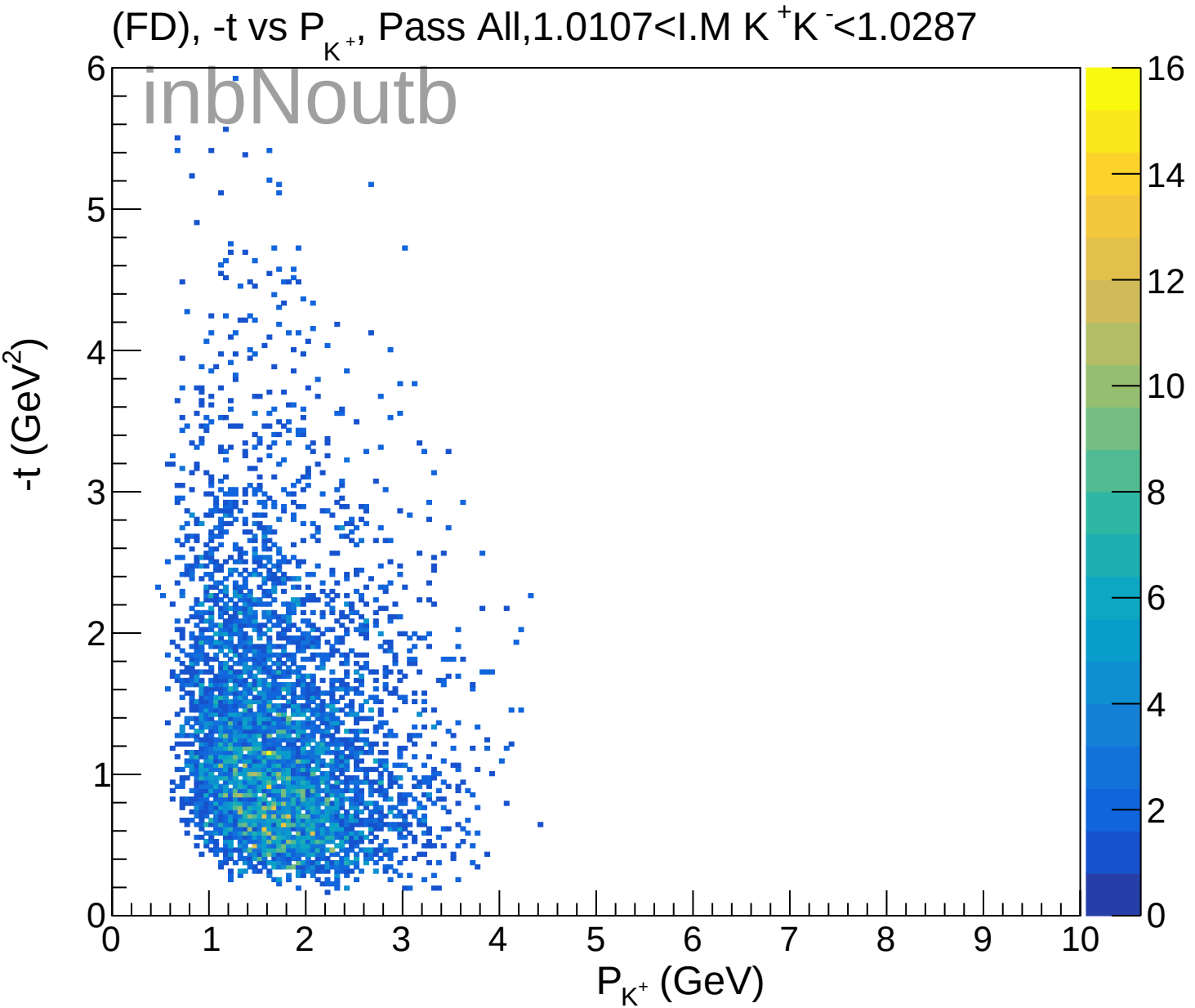

(FD),I.M. K+K- vs ϕtrento, PA,1.0107<I.M K+K-<1.0287
inbNoutb
I.M. K+K- (GeV)
ϕtrento
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
–150
–100
–50
0
50
100
150
450
400
350
300
250
200
150
100
50
0

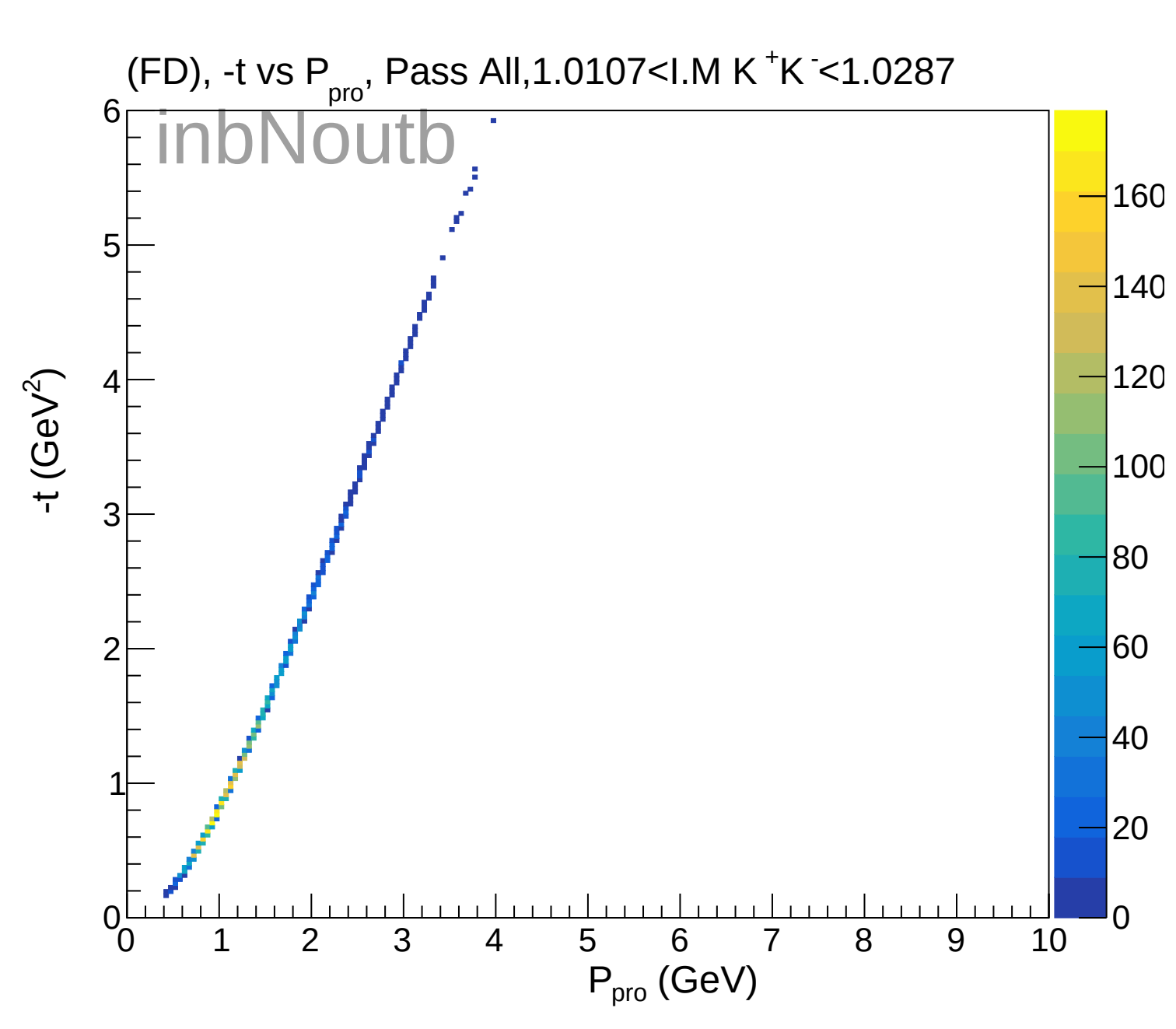

Q^2 vs X_b,1.0107<I.M K^+K^-<1.0287
inbNoutb
Q^2 (GeV^2)
X_b
0
2
4
6
8
10
12
0
0.2
0.4
0.6
0.8
1
0
2
4
6
8
10
12
14
16
18
20
22

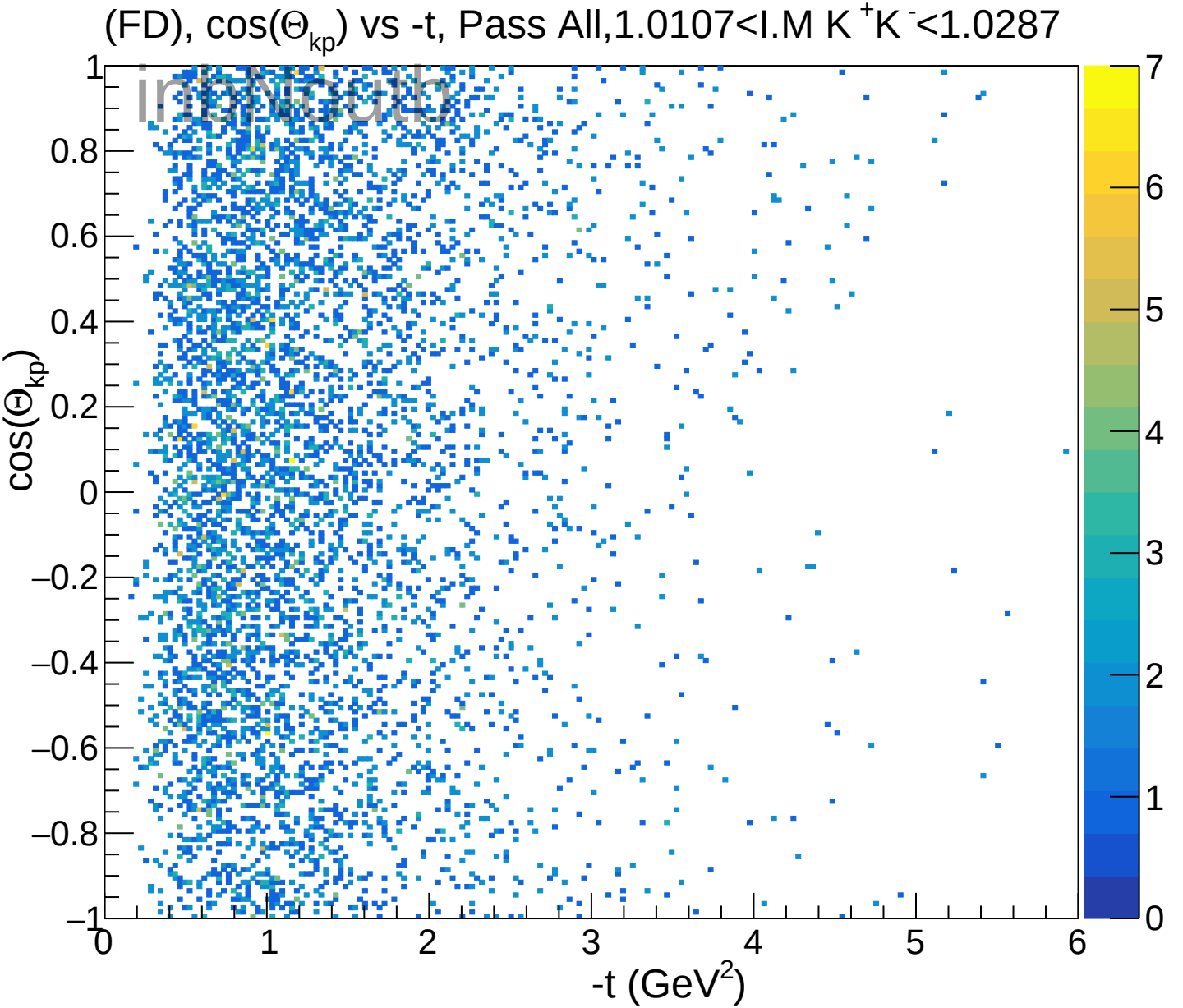

(FD), Q2 vs W, PA,1.0107<I.M K +K -<1.0287
inbNoutb
Q2 (GeV2)
W (GeV)
0
2
4
6
8
10
12
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5

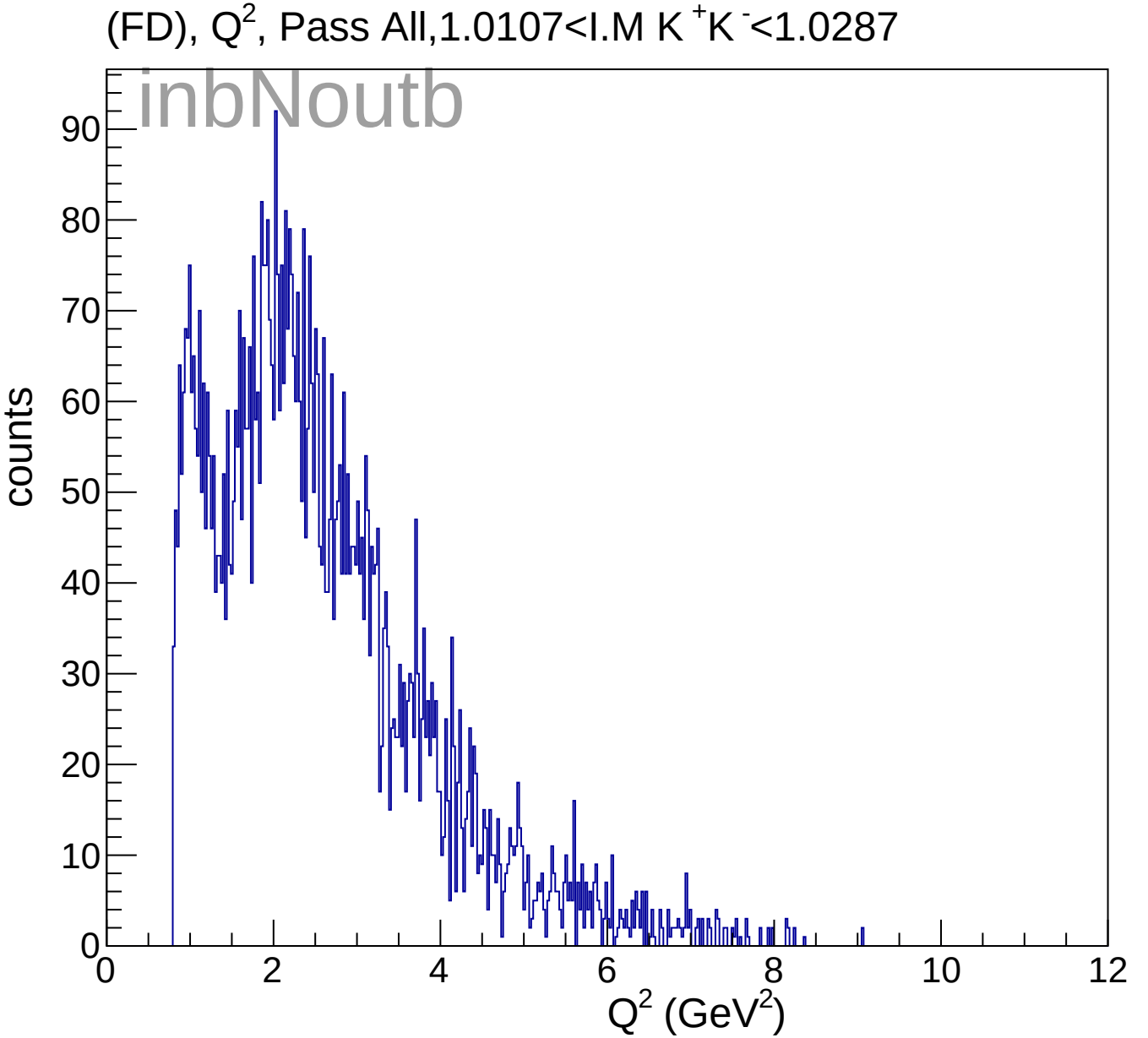

X_b vs -t, 1.0107<I.M K^+K^-<1.0287
inbNoutb
X_b
-t (GeV^2)
0
0.2
0.4
0.6
0.8
1
0
1
2
3
4
5
6
0
2
4
6
8
10

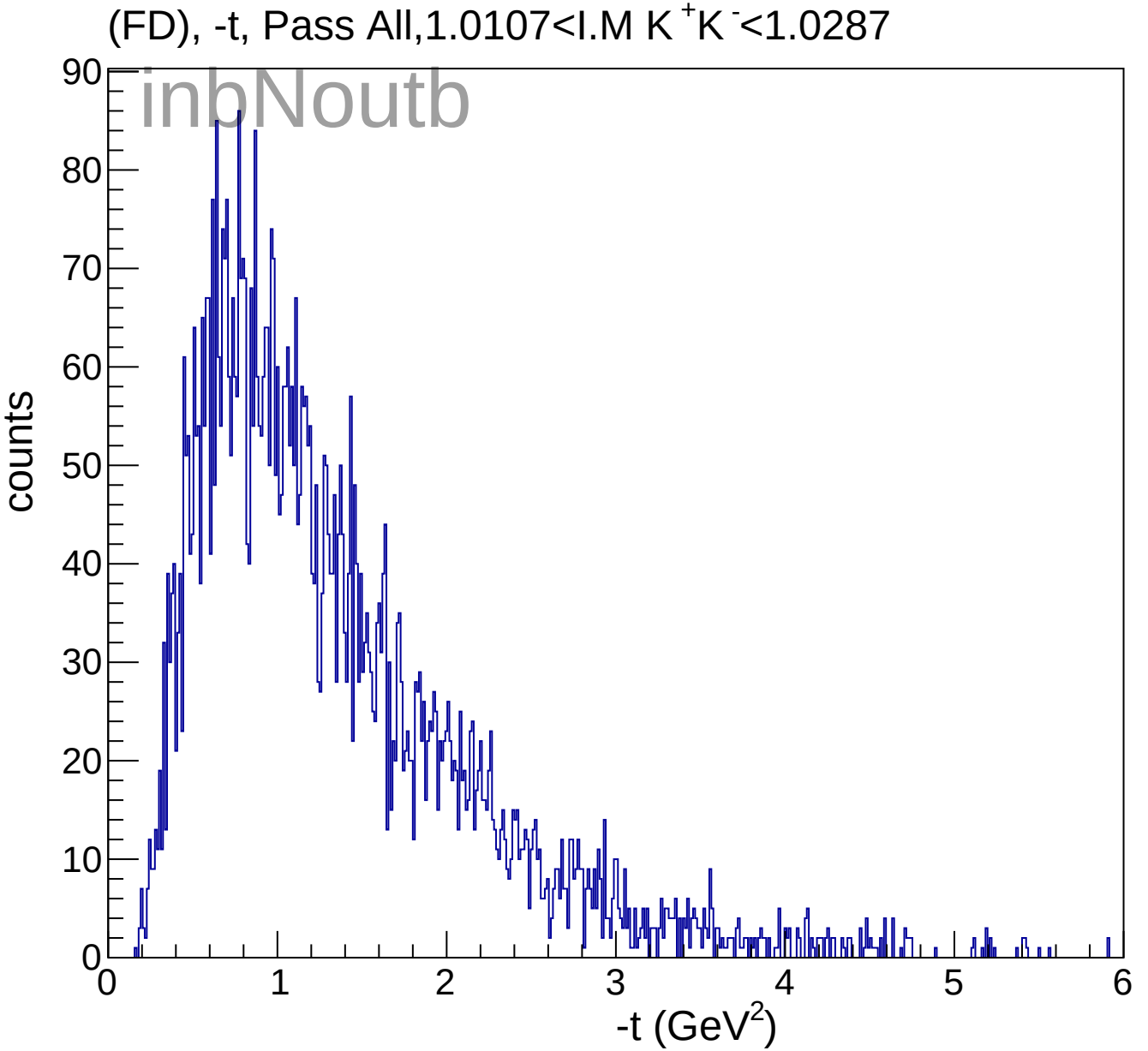

(FD),Q2 vs -t, Pass All,1.0107<I.M K+K-<1.0287
inbNoutb
Q2 (GeV2)
-t (GeV2)
0
2
4
6
8
10
12
0
1
2
3
4
5
6
0
2
4
6
8
10
12
14

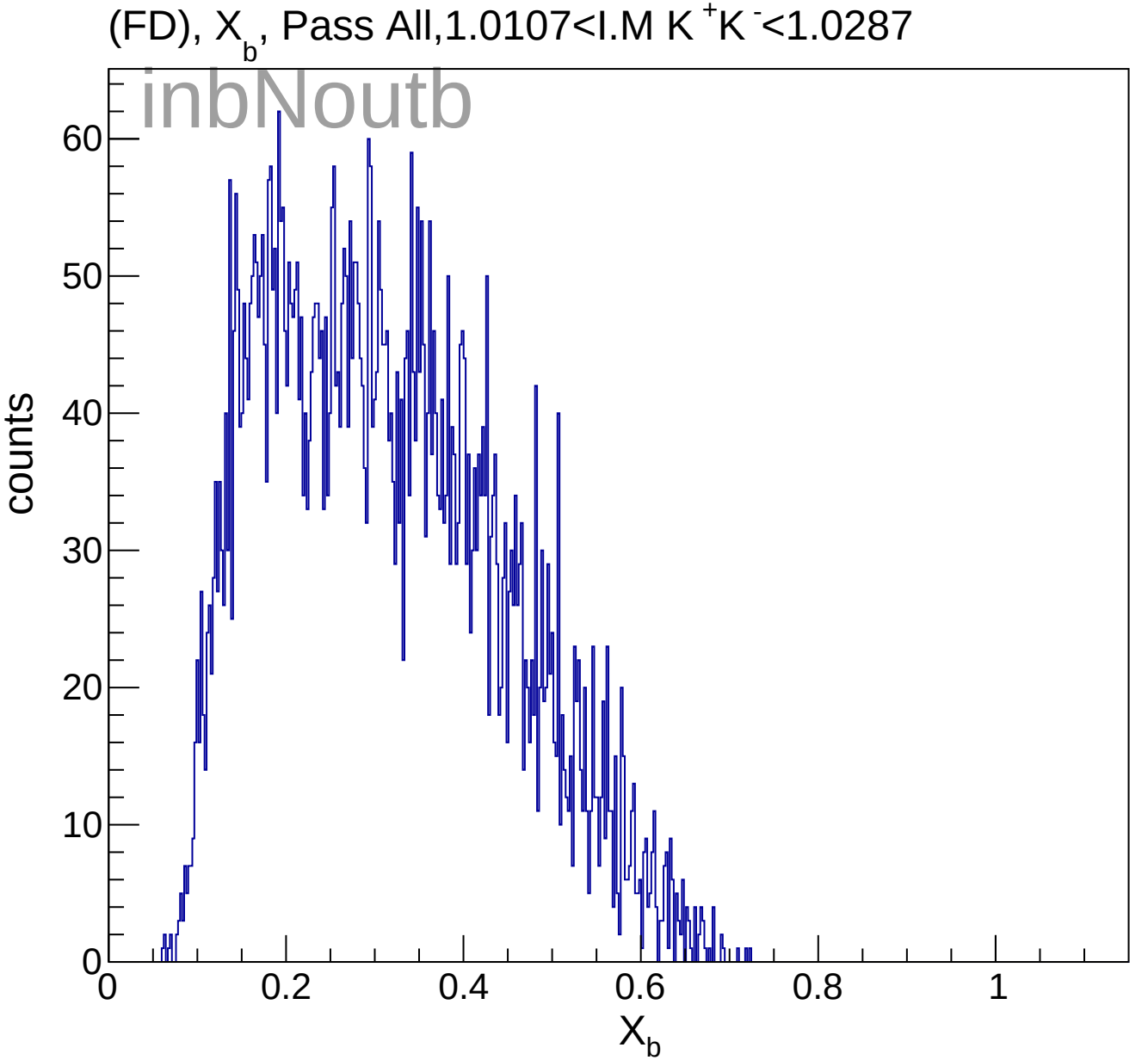

(FD), -t vs P_K+, Pass All,1.0107<I.M K+K-<1.0287
inbNoutb
-t (GeV²)
P_K+ (GeV)
0
1
2
3
4
5
6
7
8
9
10
0
2
4
6
8
10
12
14
16

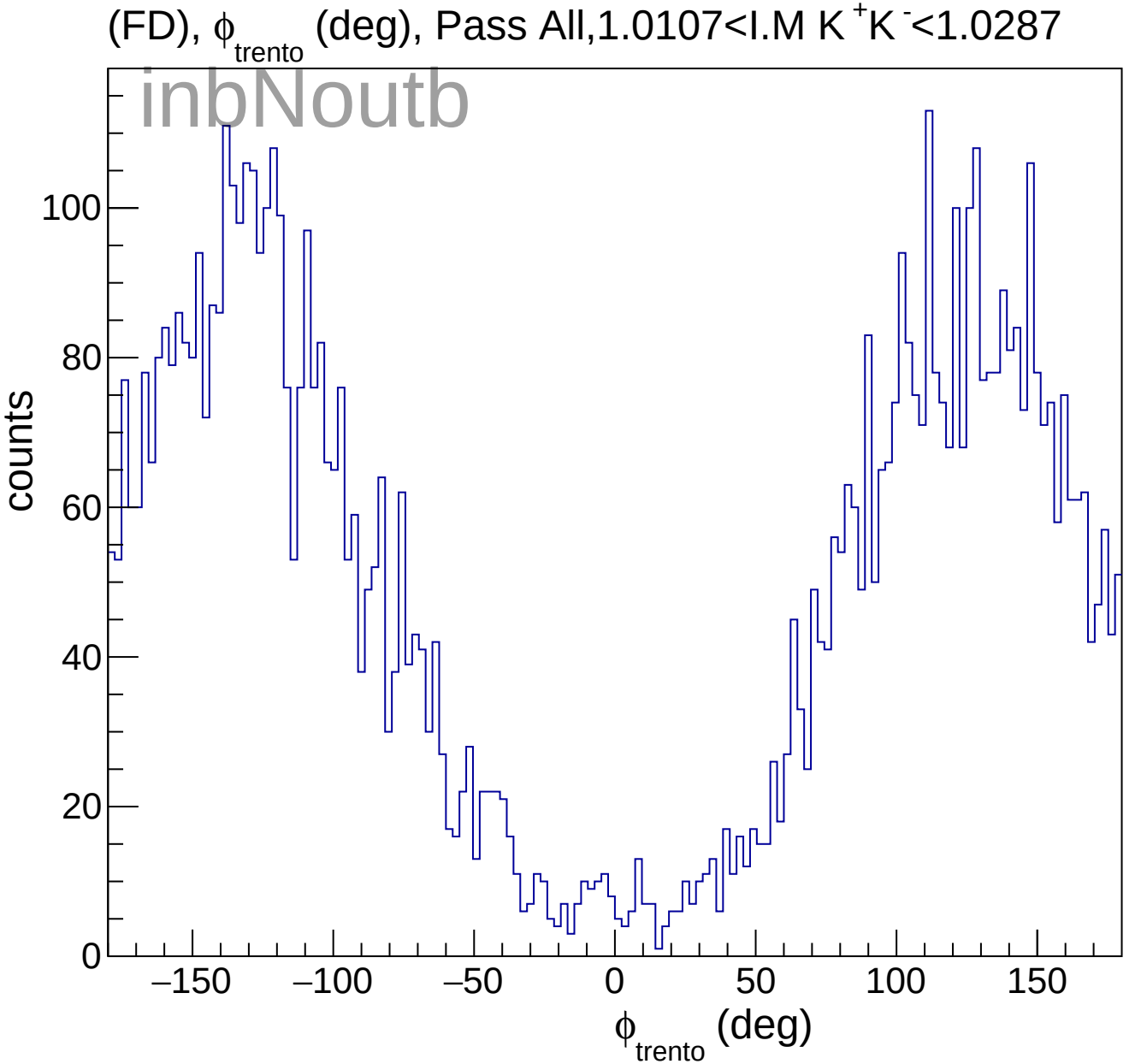

(FD), -t vs P_pro, Pass All,1.0107<I.M K+K-<1.0287
inbNoutb
-t (GeV2)
P_pro (GeV)
0
1
2
3
4
5
6
7
8
9
10
20
40
60
80
100
120
140
160


(FD), cos(Θkp) vs -t, Pass All,1.0107<I.M K+K-<1.0287
inbNtuple
cos(Θkp)
-t (GeV2)
1
0.8
0.6
0.4
0.2
0
–0.2
–0.4
–0.6
–0.8
–1
0
1
2
3
4
5
6
7

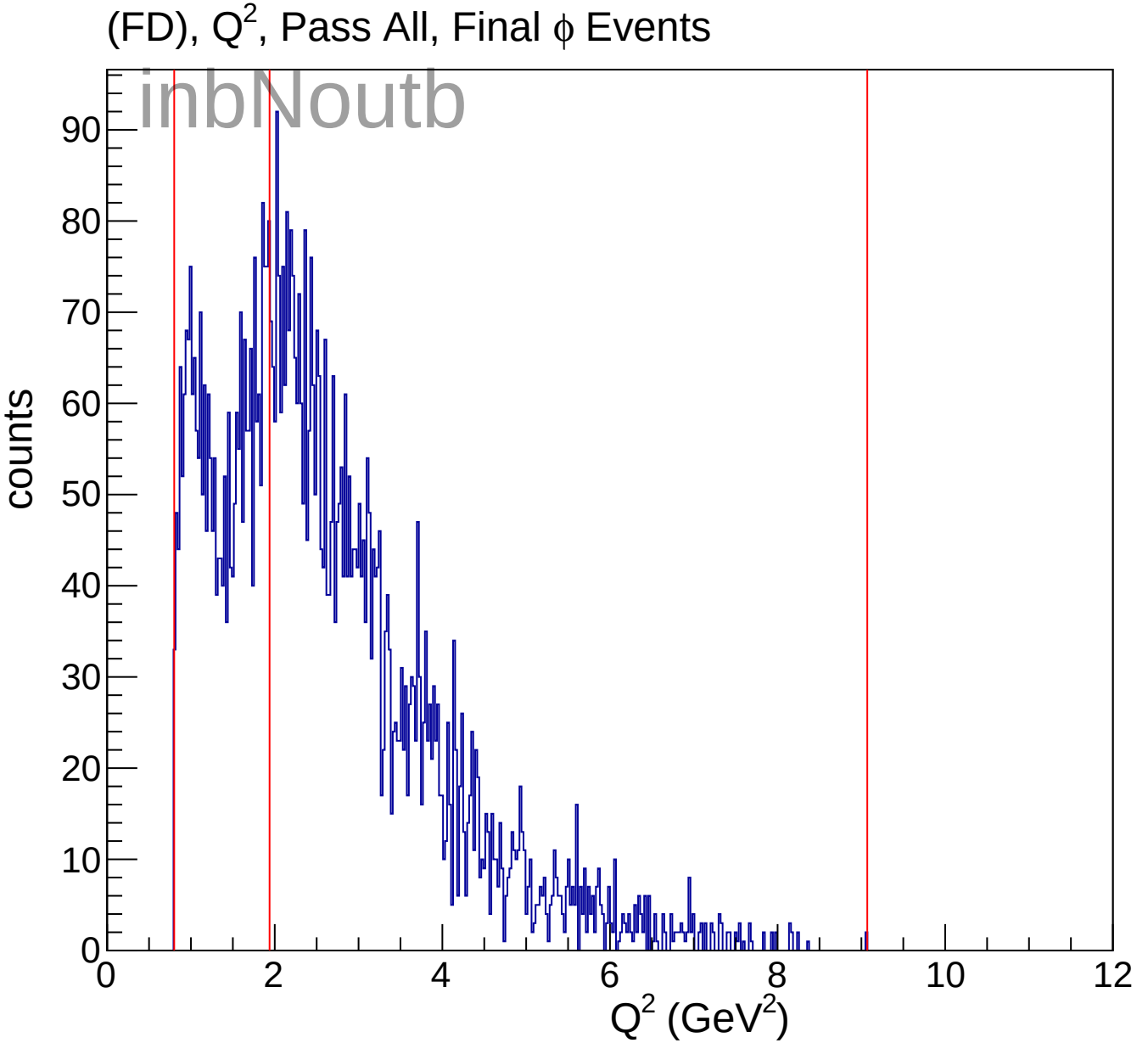

(FD), Q2, Pass All,1.0107<I.M K+K-<1.0287
inbNoutb
counts
0
10
20
30
40
50
60
70
80
90
0
2
4
6
8
10
12
Q2 (GeV2)

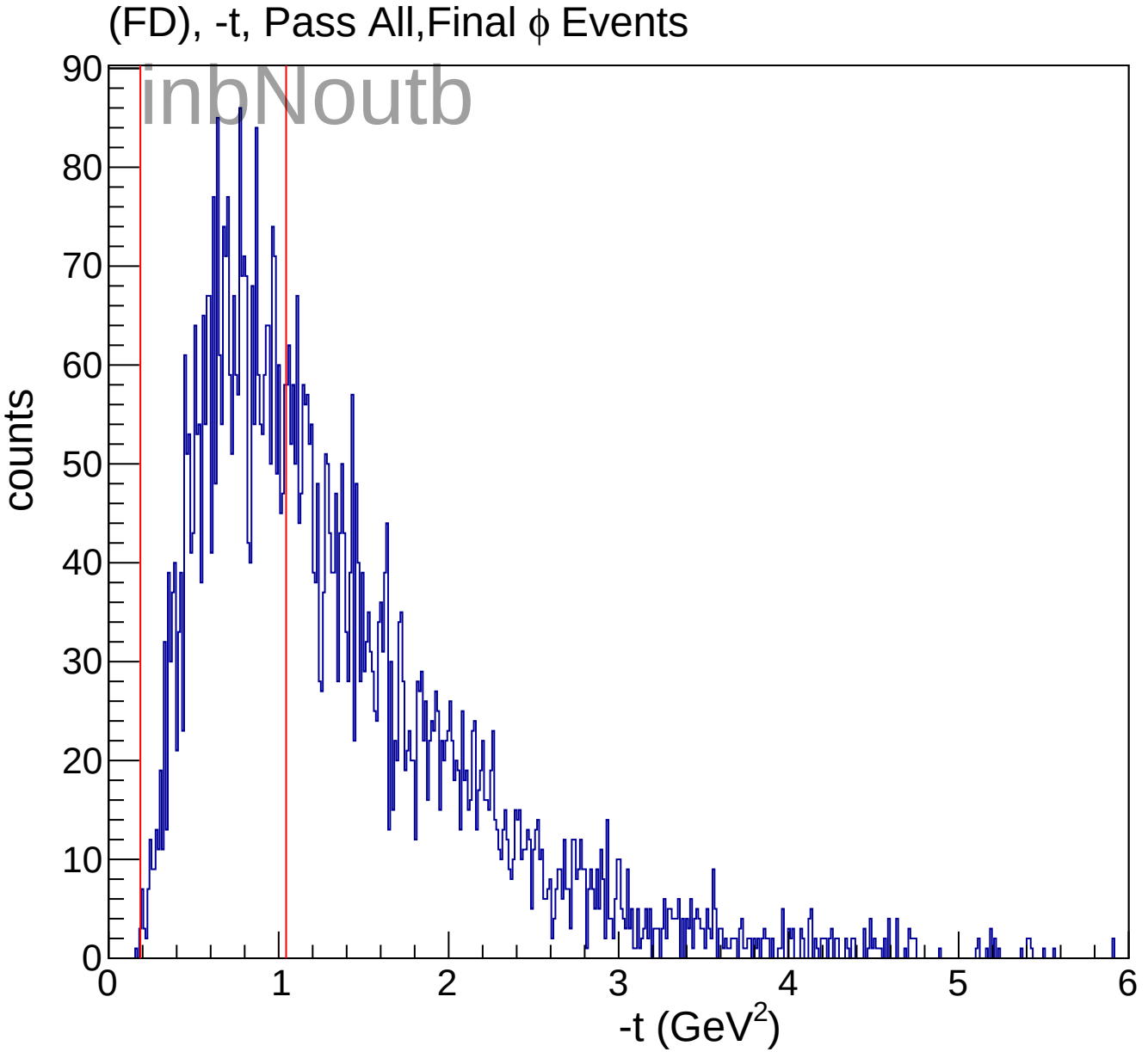

(FD), -t, Pass All,1.0107<I.M K+K-<1.0287
inbNoutb
counts
-t (GeV2)
0
10
20
30
40
50
60
70
80
90
0
1
2
3
4
5
6

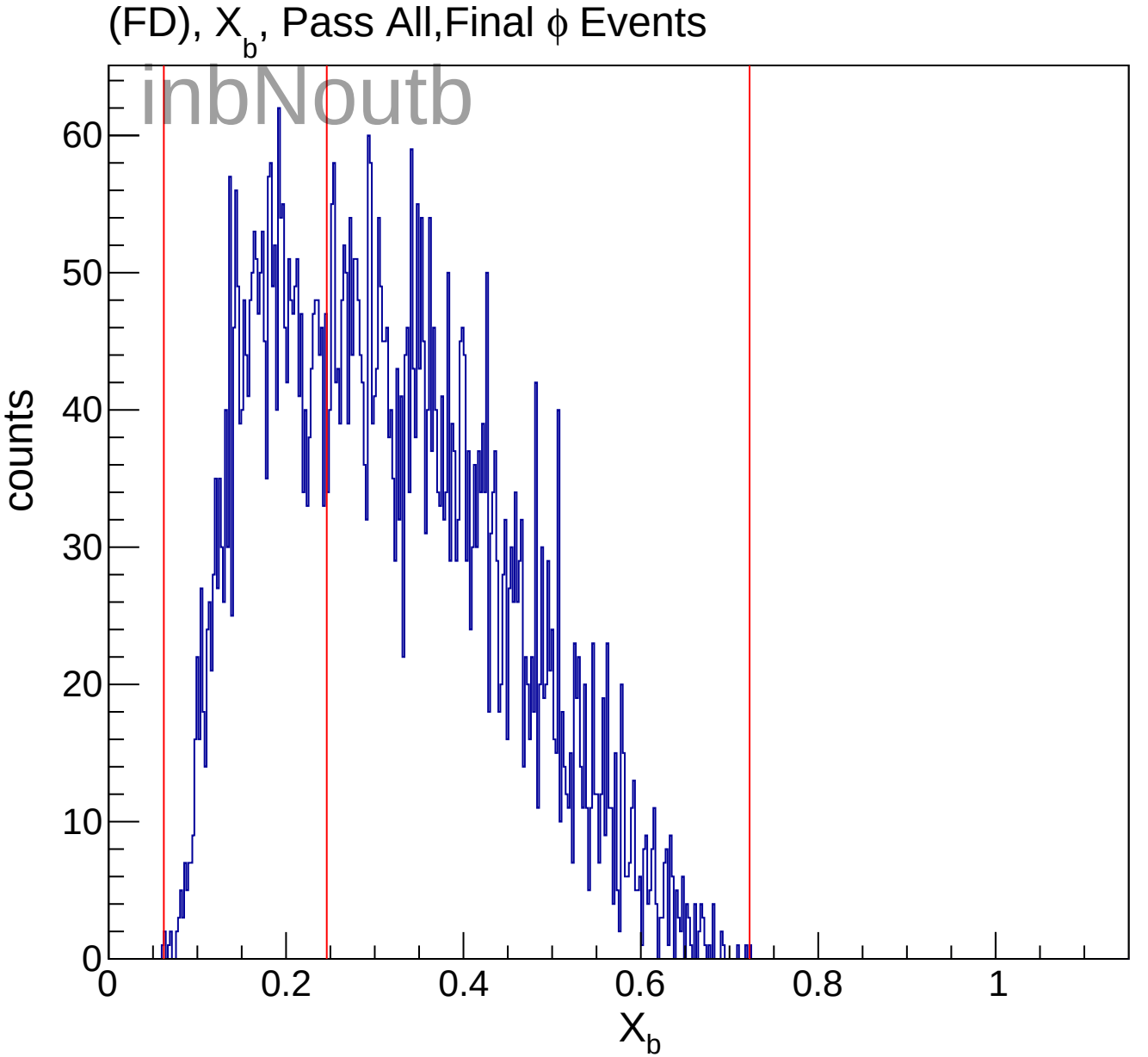

(FD), X_b, Pass All,1.0107<I.M K^+K^-<1.0287
inbNoutb
counts
X_b
0
10
20
30
40
50
60
0
0.2
0.4
0.6
0.8
1

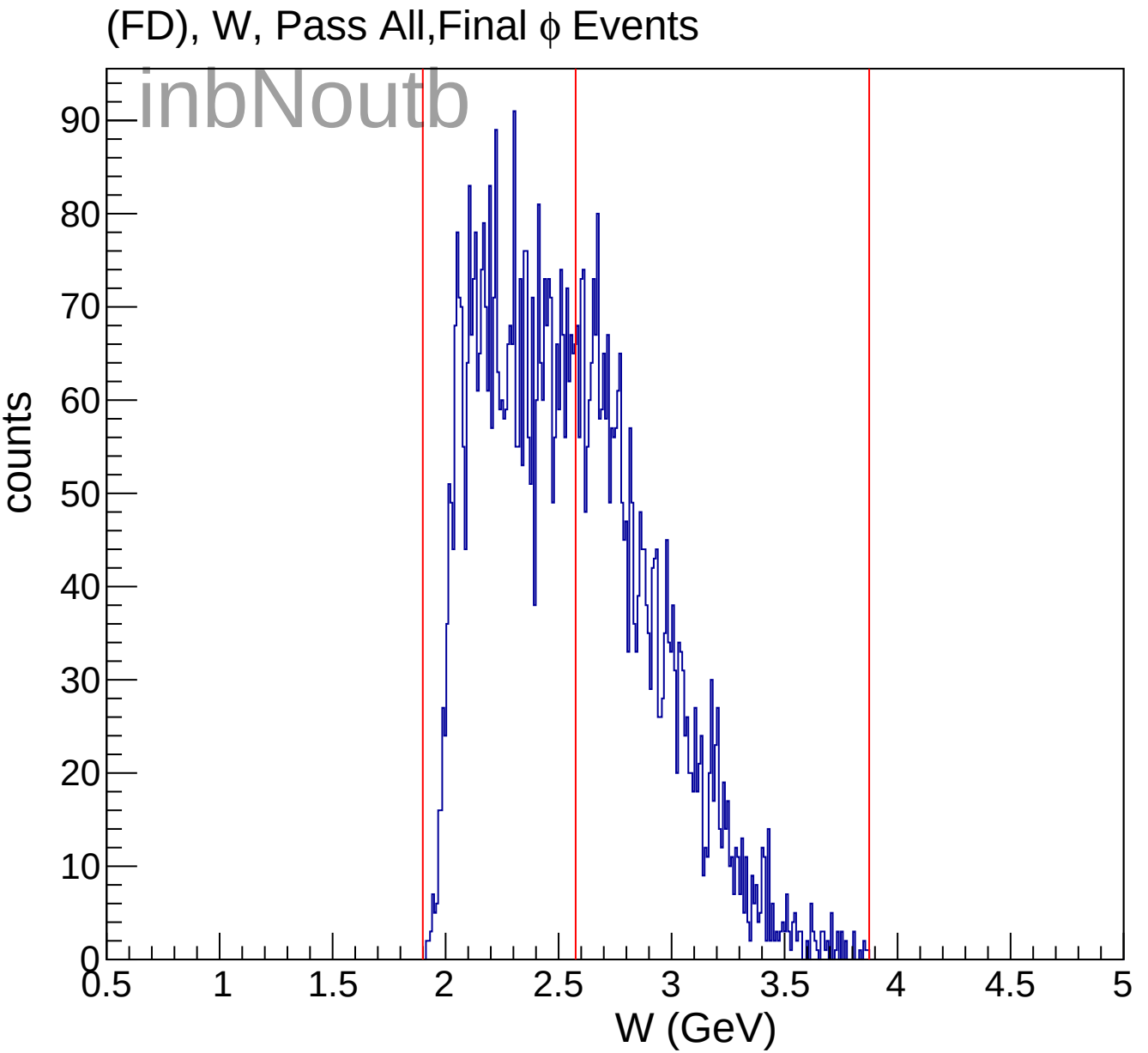

(FD), ϕ_{trento} (deg), Pass All,1.0107<I.M K^+K^-<1.0287
inbNoutb
counts
0
20
40
60
80
100
–150
–100
–50
0
50
100
150
ϕ_{trento} (deg)

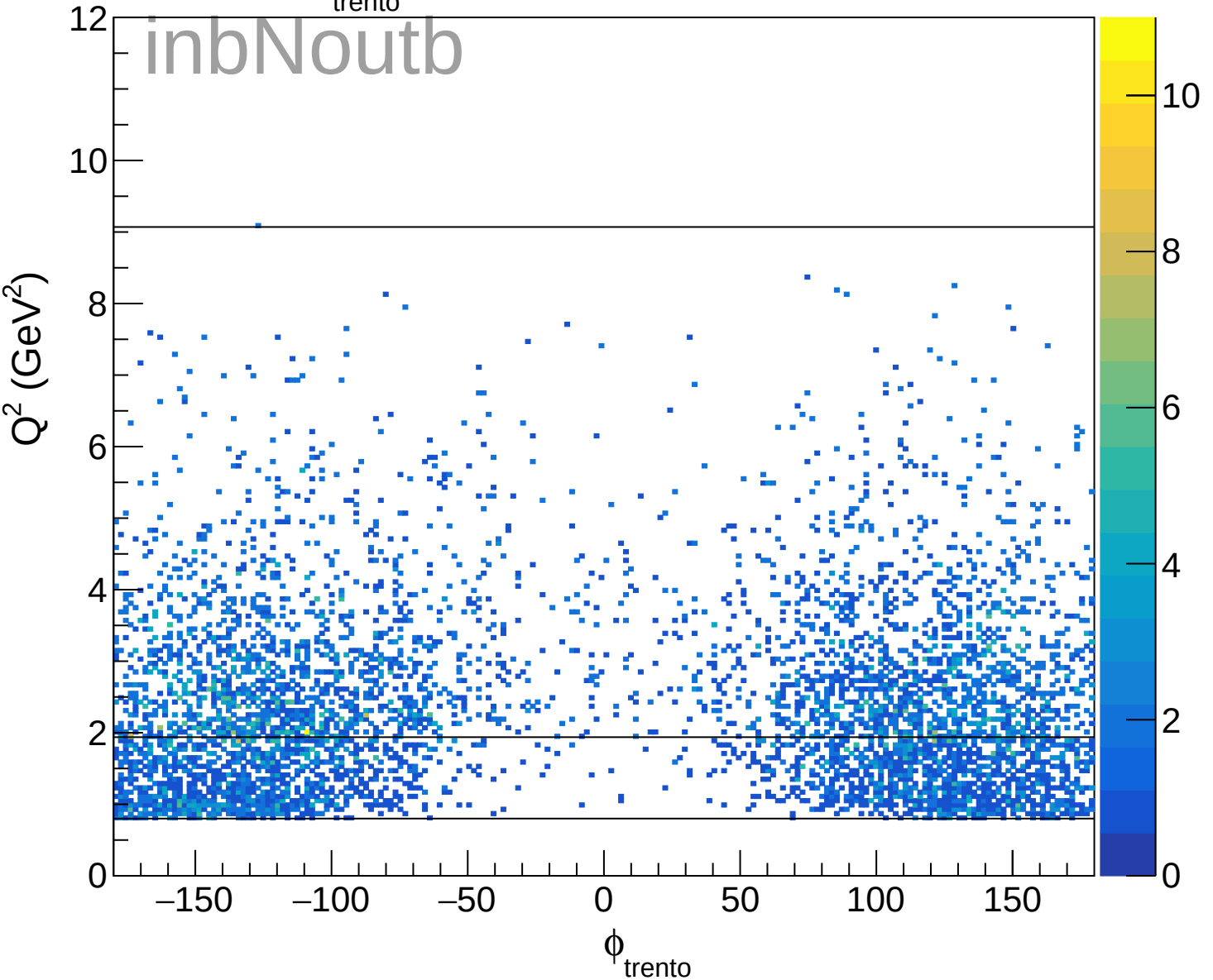
Binning Info For Asy.

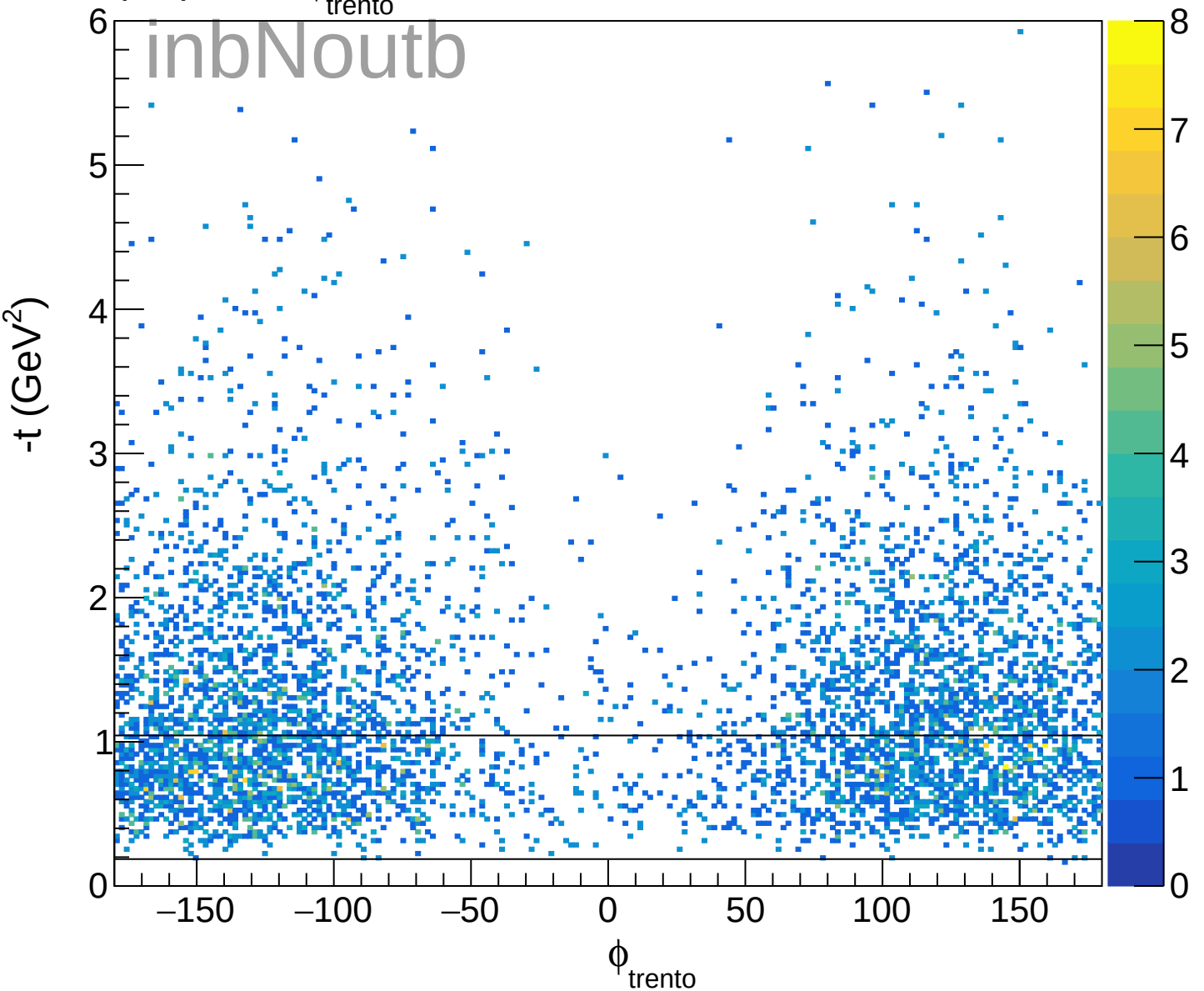

(FD), Q^2, Pass All, Final ϕ Events
inbNoutb
counts
0
10
20
30
40
50
60
70
80
90
0
2
4
6
8
10
12
Q^2 (GeV^2)

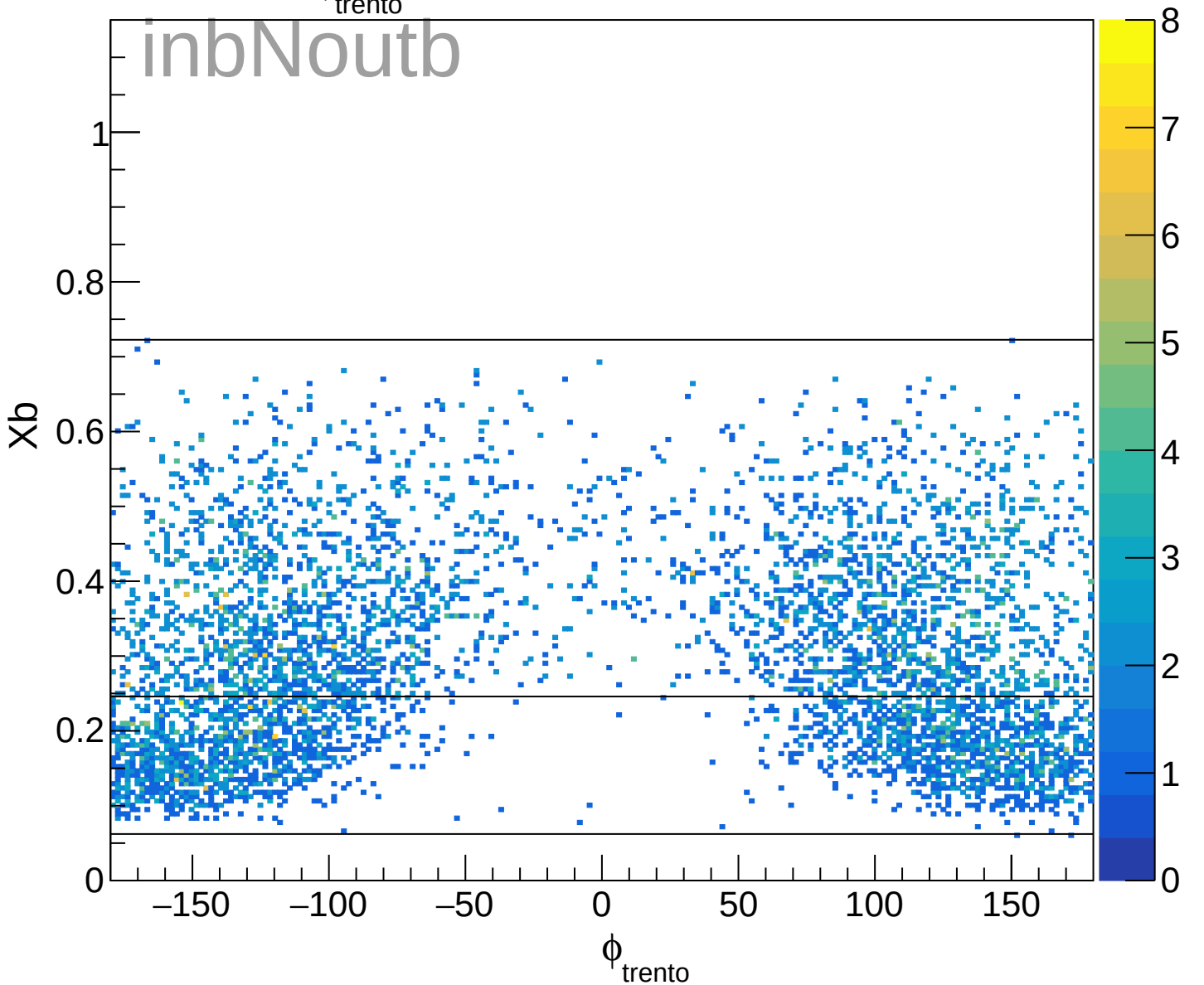

(FD), -t, Pass All,Final ϕ Events
inbNoutb
counts
-t (GeV^2)
0
10
20
30
40
50
60
70
80
90
0
1
2
3
4
5
6

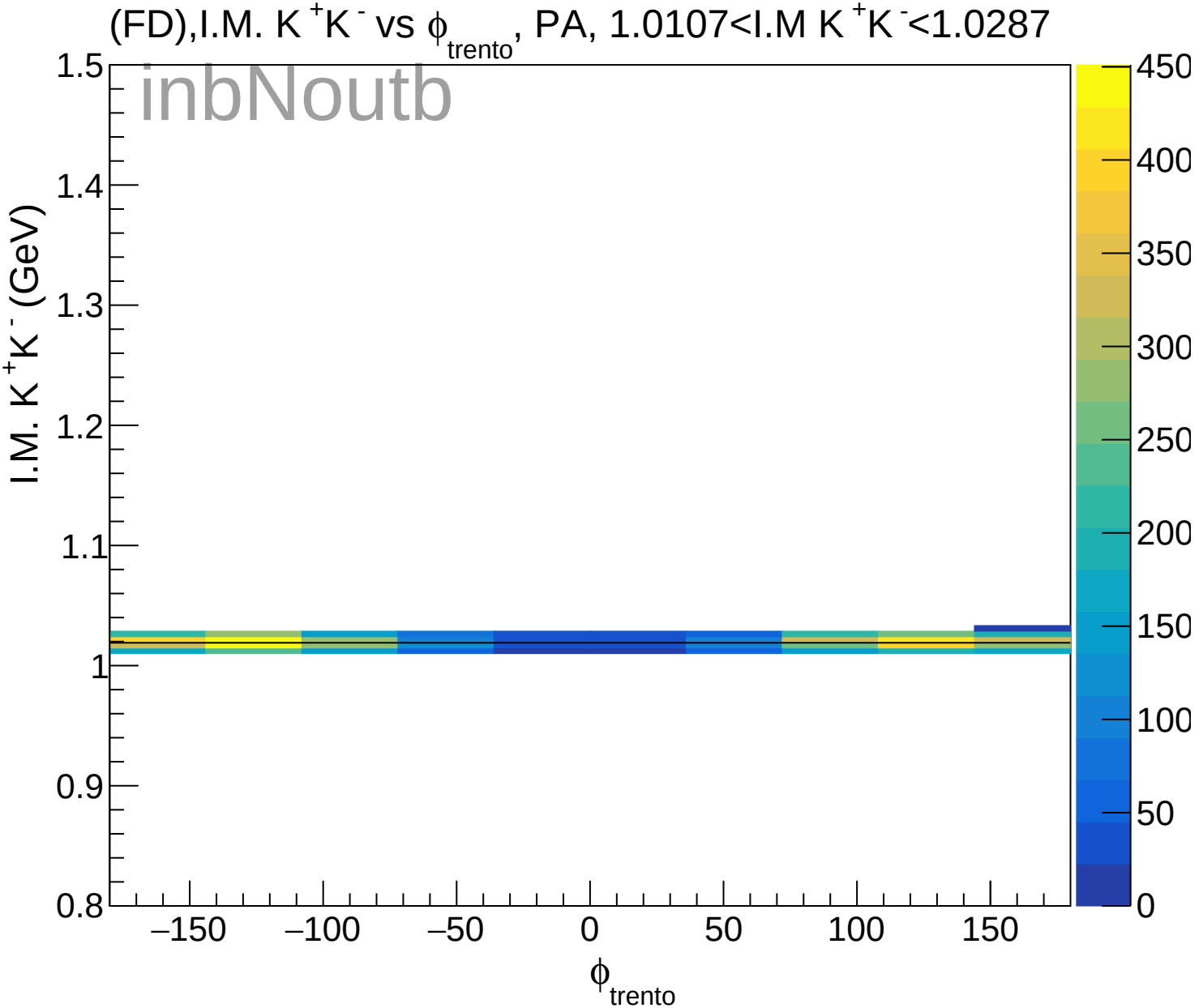

(FD), X_b, Pass All,Final ϕ Events
inbNoutb
counts
0
10
20
30
40
50
60
0
0.2
0.4
0.6
0.8
1
X_b

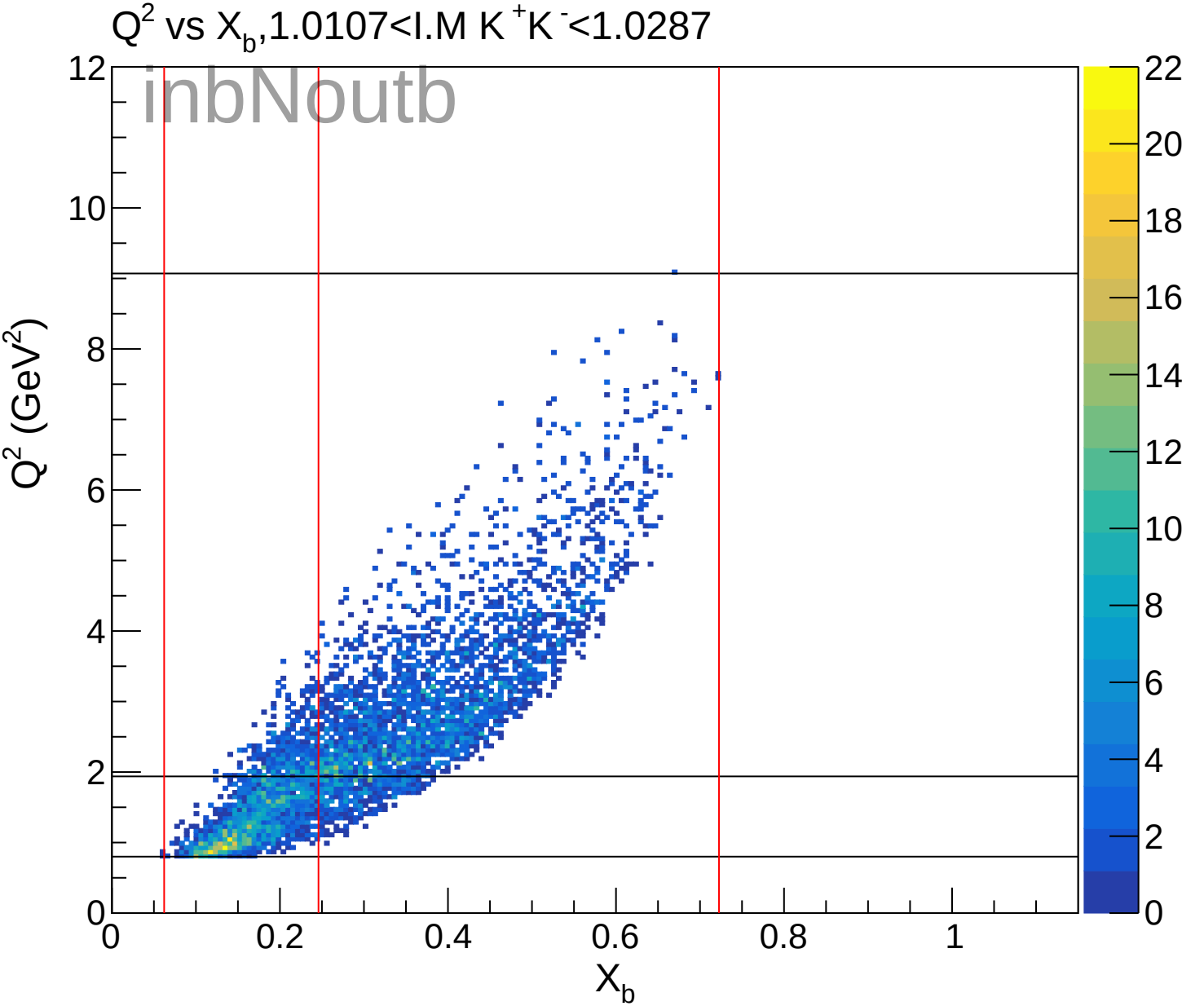

(FD), W, Pass All,Final ϕ Events
inbNoutb
counts
W (GeV)
0
10
20
30
40
50
60
70
80
90
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5

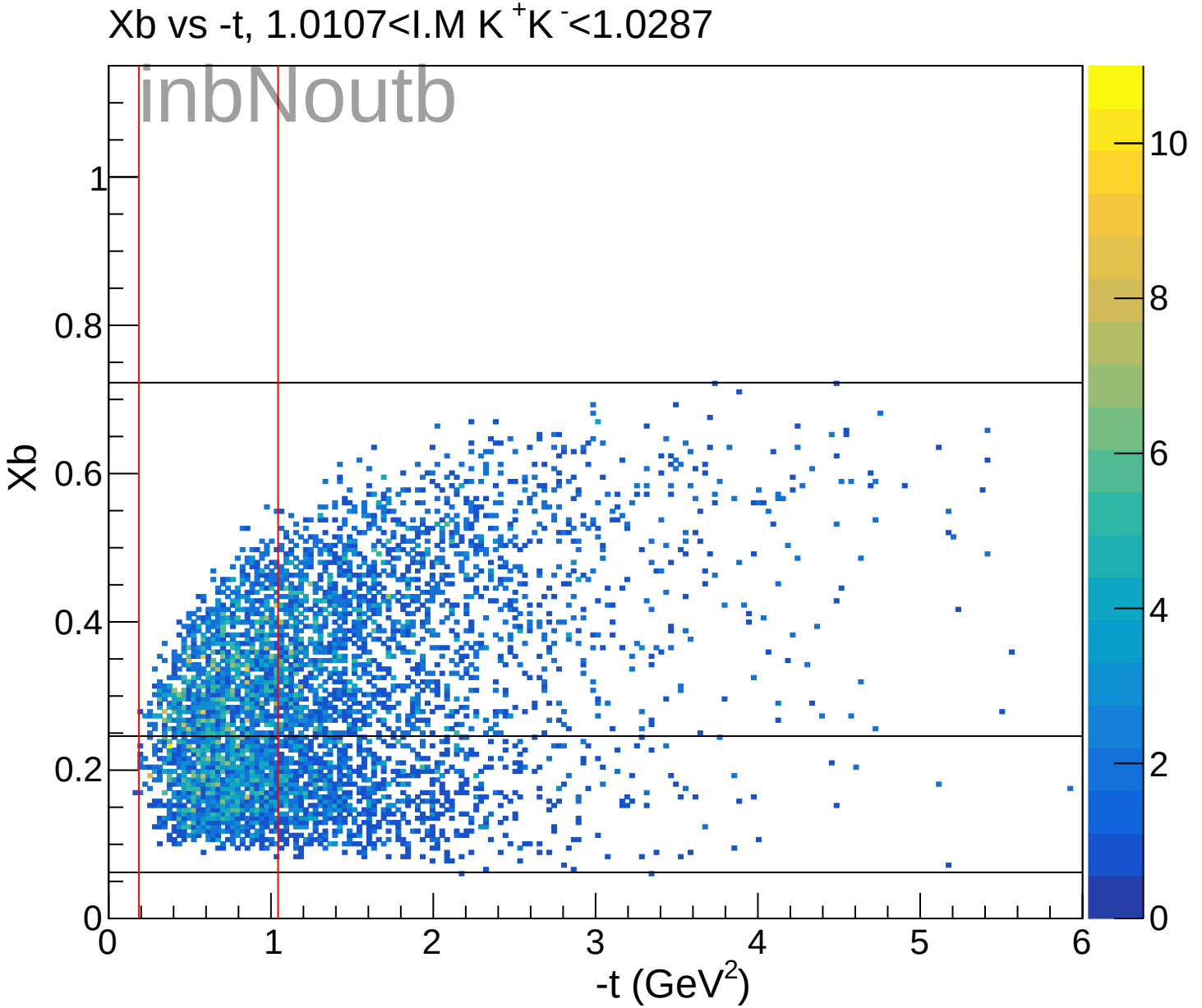

(FD),Q2 vs ϕtrento,PA,1.0107<I.M K+K-<1.0287
inbNoutb
Q2 (GeV2)
ϕtrento
0
2
4
6
8
10
12
–150
–100
–50
0
50
100
150

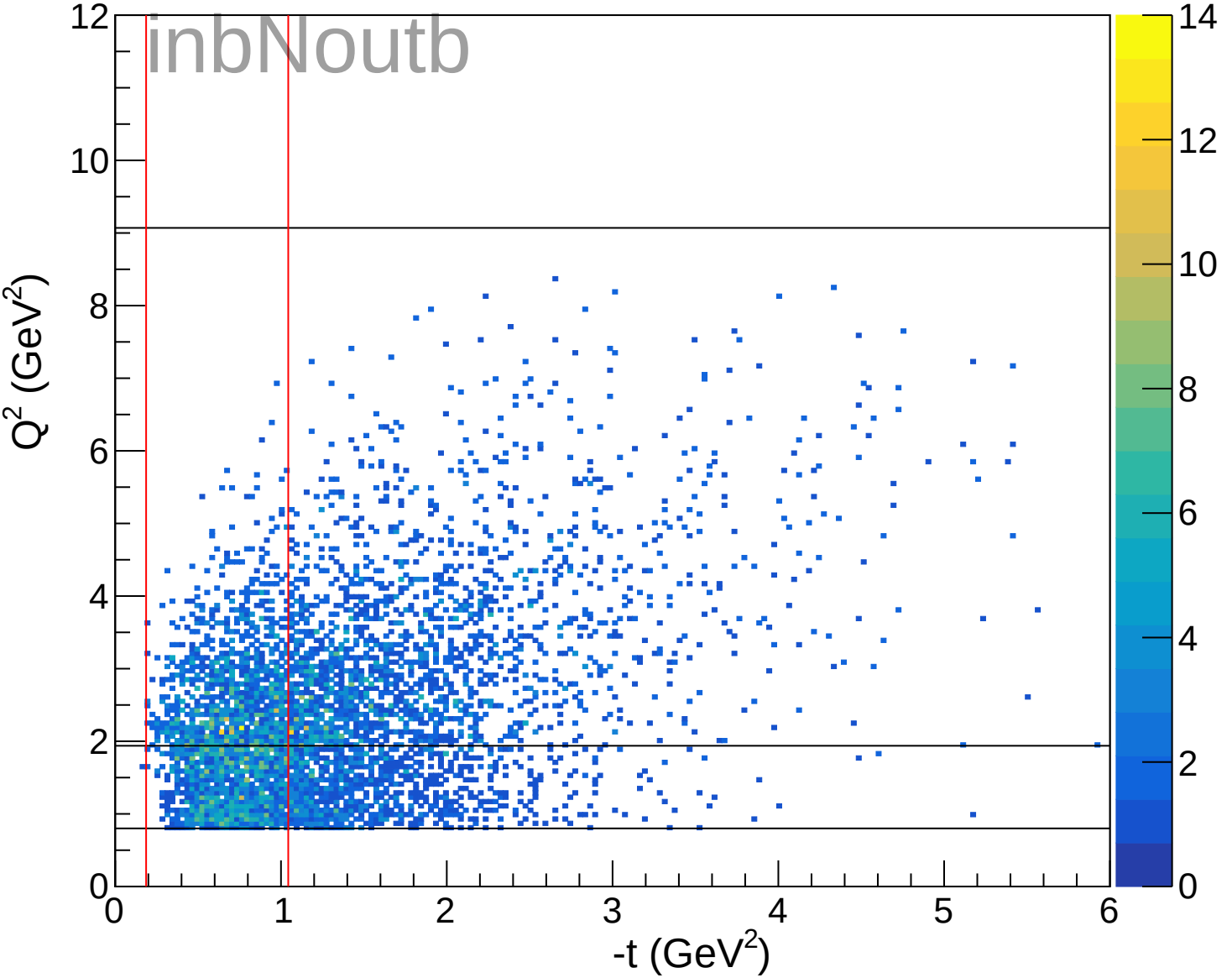

(FD), -t vs ϕ_{trento},PA,1.0107<I.M K^+K^-<1.0287
inbNoutb
-t (GeV^2)
ϕ_{trento}
0
1
2
3
4
5
6
–150
–100
–50
0
50
100
150
0
1
2
3
4
5
6
7
8

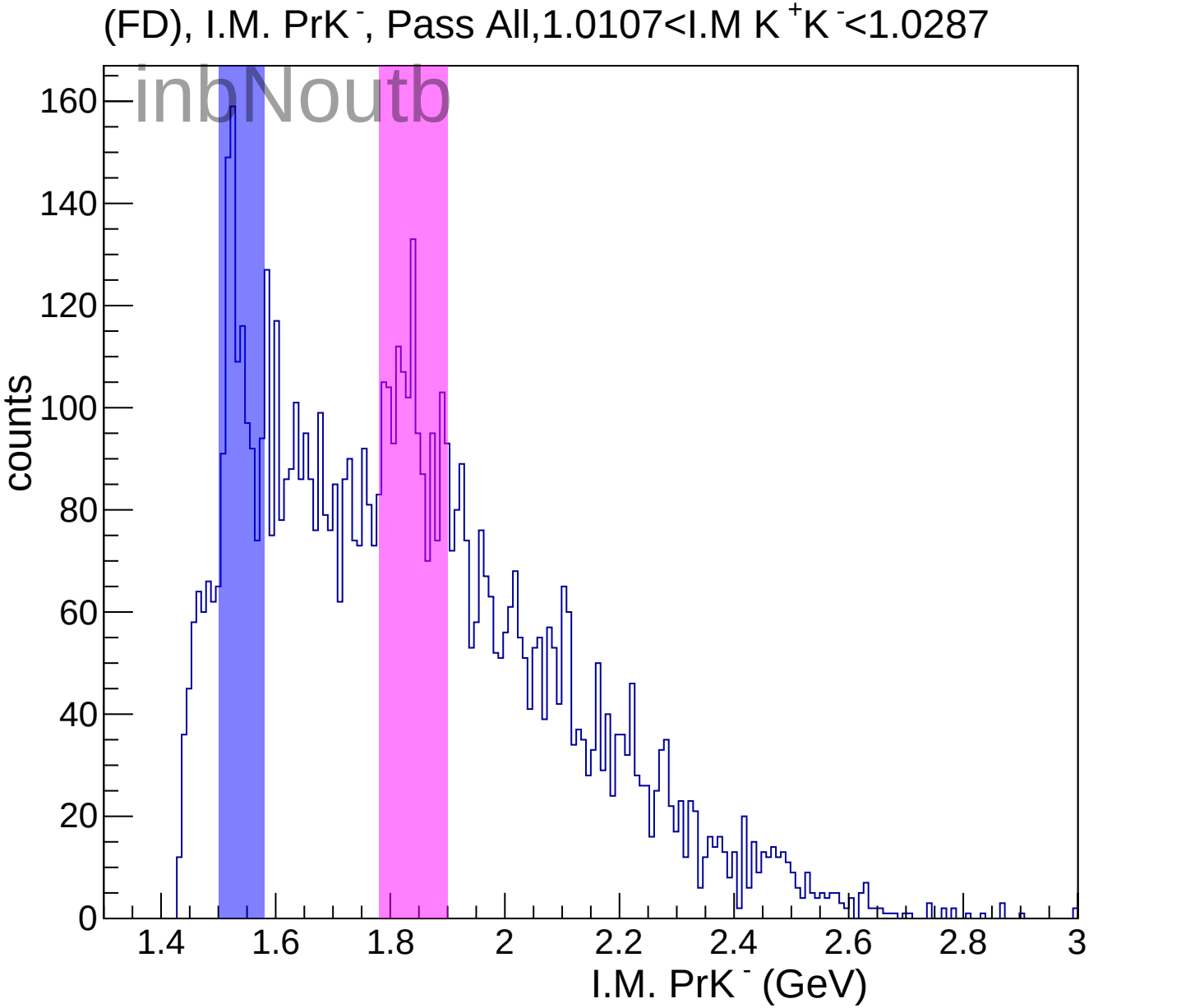

(FD),Xb vs ϕ_{trento},PA, 1.0107<I.M K^+K^-<1.0287
inbNoutb
Xb
ϕ_{trento}
0
0.2
0.4
0.6
0.8
1
–150
–100
–50
0
50
100
150
0
1
2
3
4
5
6
7
8


(FD),I.M. K+K- vs ϕtrento, PA, 1.0107<I.M K+K-<1.0287
inbNoutb
I.M. K+K- (GeV)
ϕtrento
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
–150
–100
–50
0
50
100
150
450
400
350
300
250
200
150
100
50
0


Q^2 vs X_b,1.0107<I.M K^+K^-<1.0287
inbNoutb
Q^2 (GeV^2)
X_b
0
2
4
6
8
10
12
0
0.2
0.4
0.6
0.8
1
0
2
4
6
8
10
12
14
16
18
20
22


Xb vs -t, 1.0107<I.M K+K-<1.0287
inbNoutb
Xb
-t (GeV2)
0
0.2
0.4
0.6
0.8
1
0
1
2
3
4
5
6
0
2
4
6
8
10


(FD),Q2 vs -t, Pass All,1.0107<I.M K+K-<1.0287
inbNoutb
Q2 (GeV2)
-t (GeV2)
0
2
4
6
8
10
12
0
1
2
3
4
5
6
0
2
4
6
8
10
12
14


(FD), I.M. PrK⁻, Pass All,1.0107<I.M K⁺K⁻<1.0287
inbNoutb
counts
0
20
40
60
80
100
120
140
160
1.4
1.6
1.8
2
2.2
2.4
2.6
2.8
3
I.M. PrK⁻ (GeV)