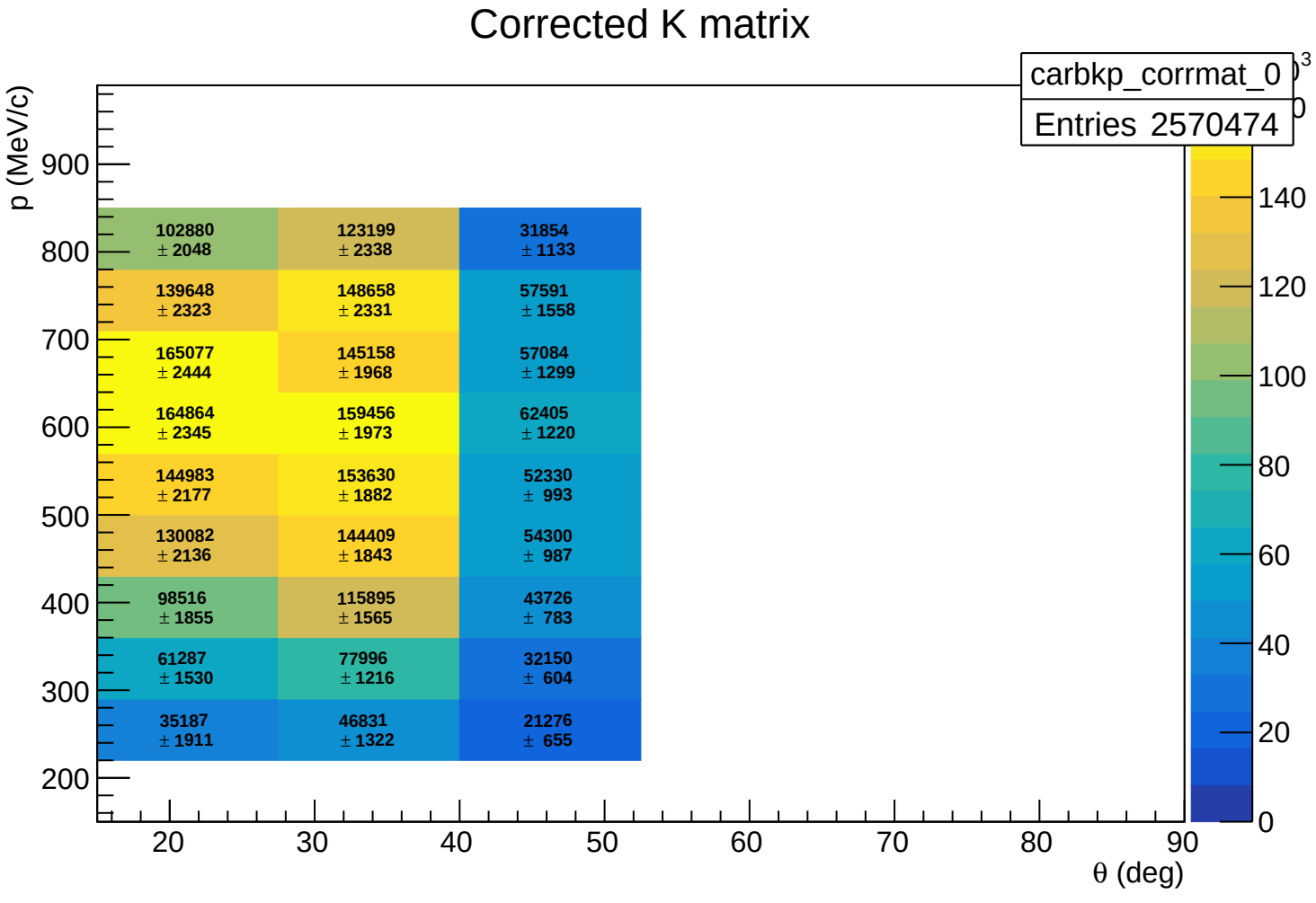
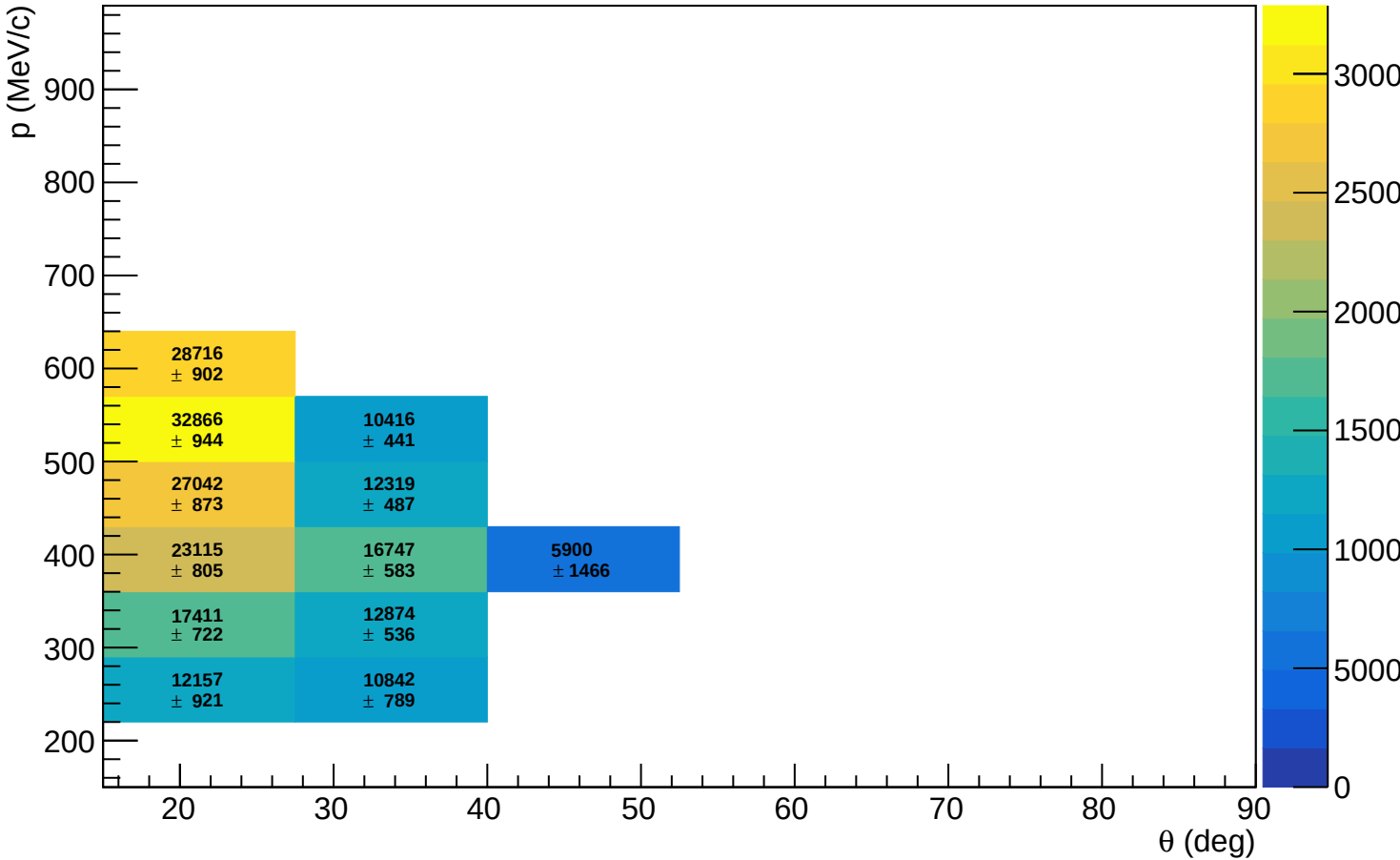
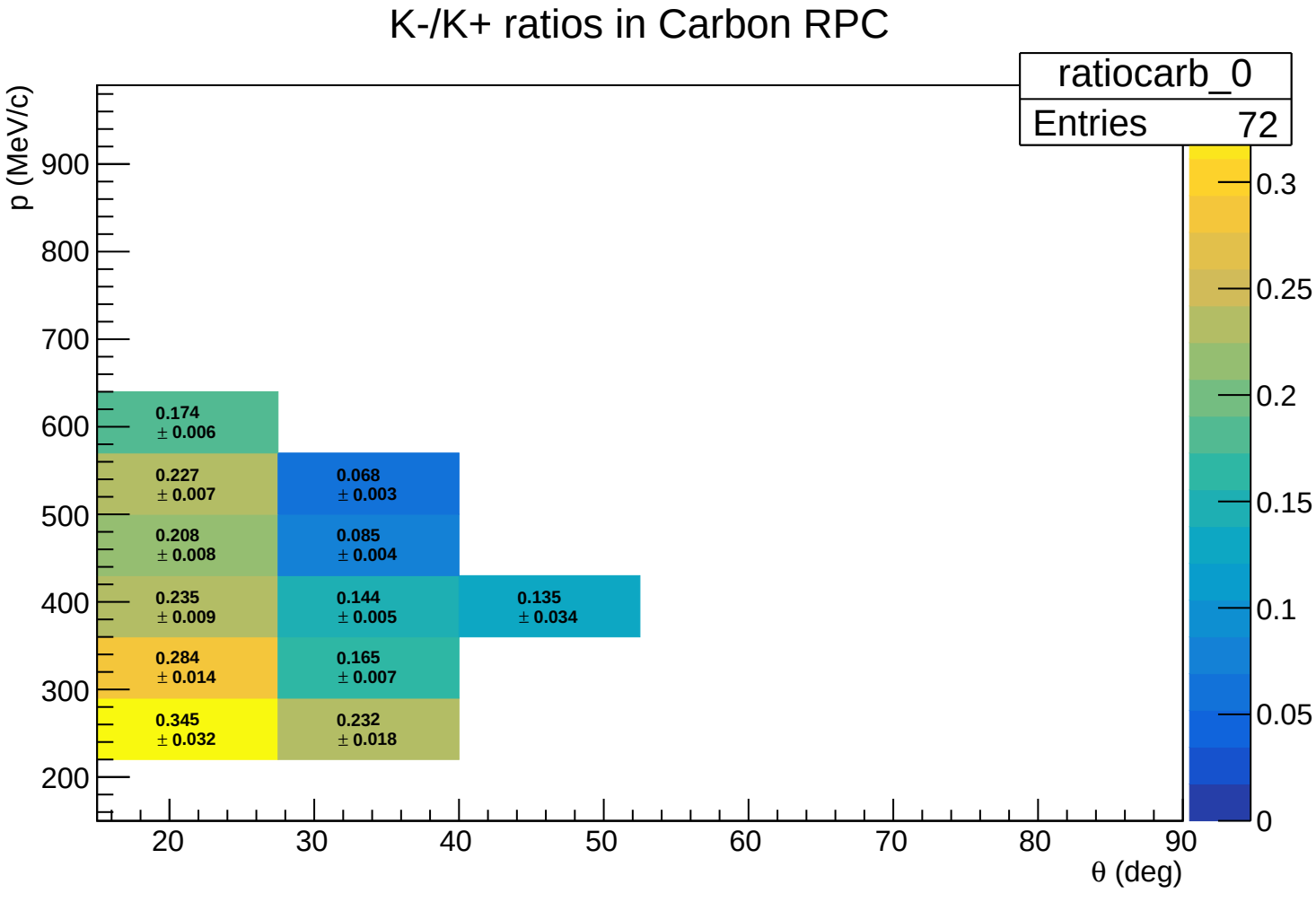
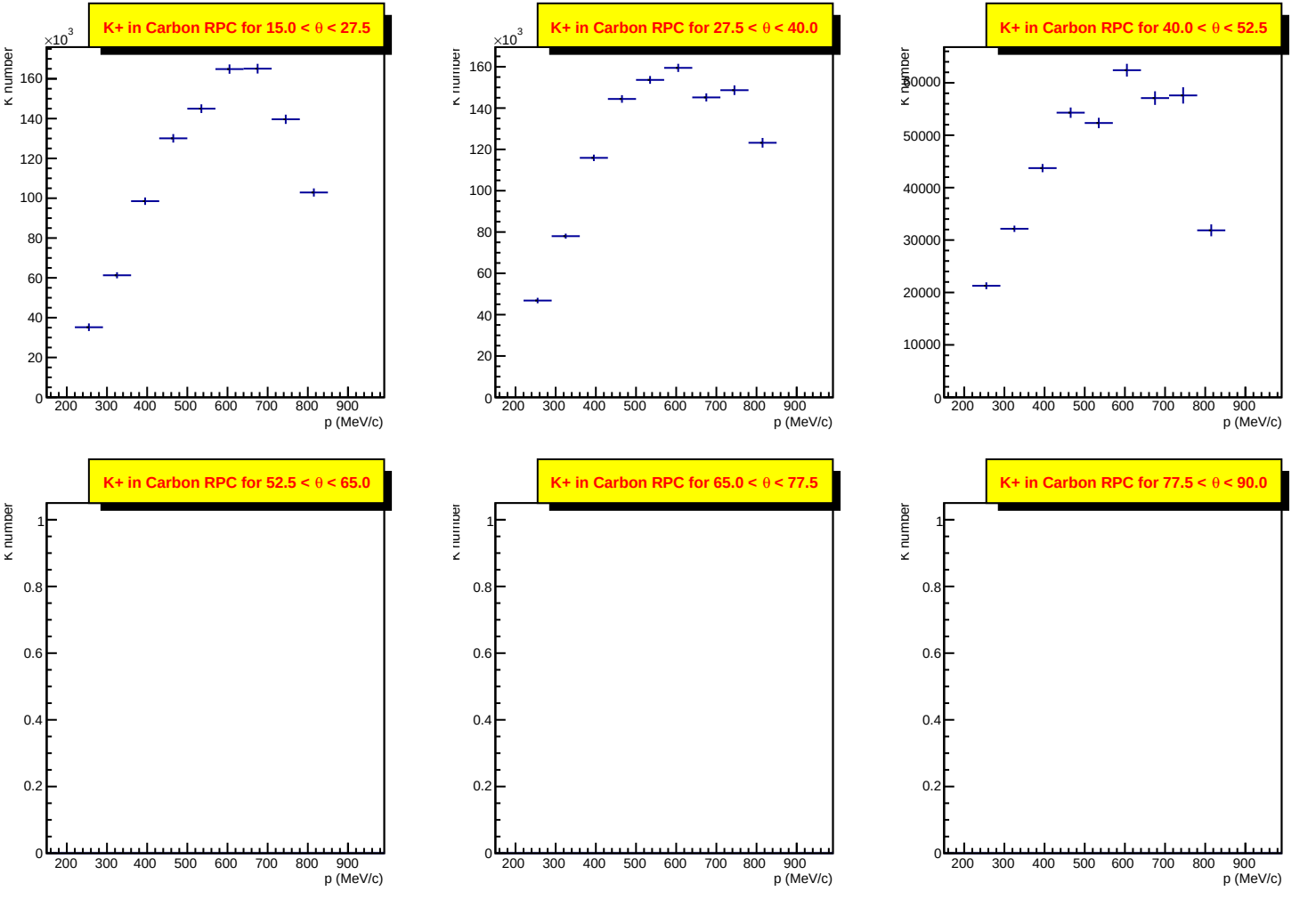
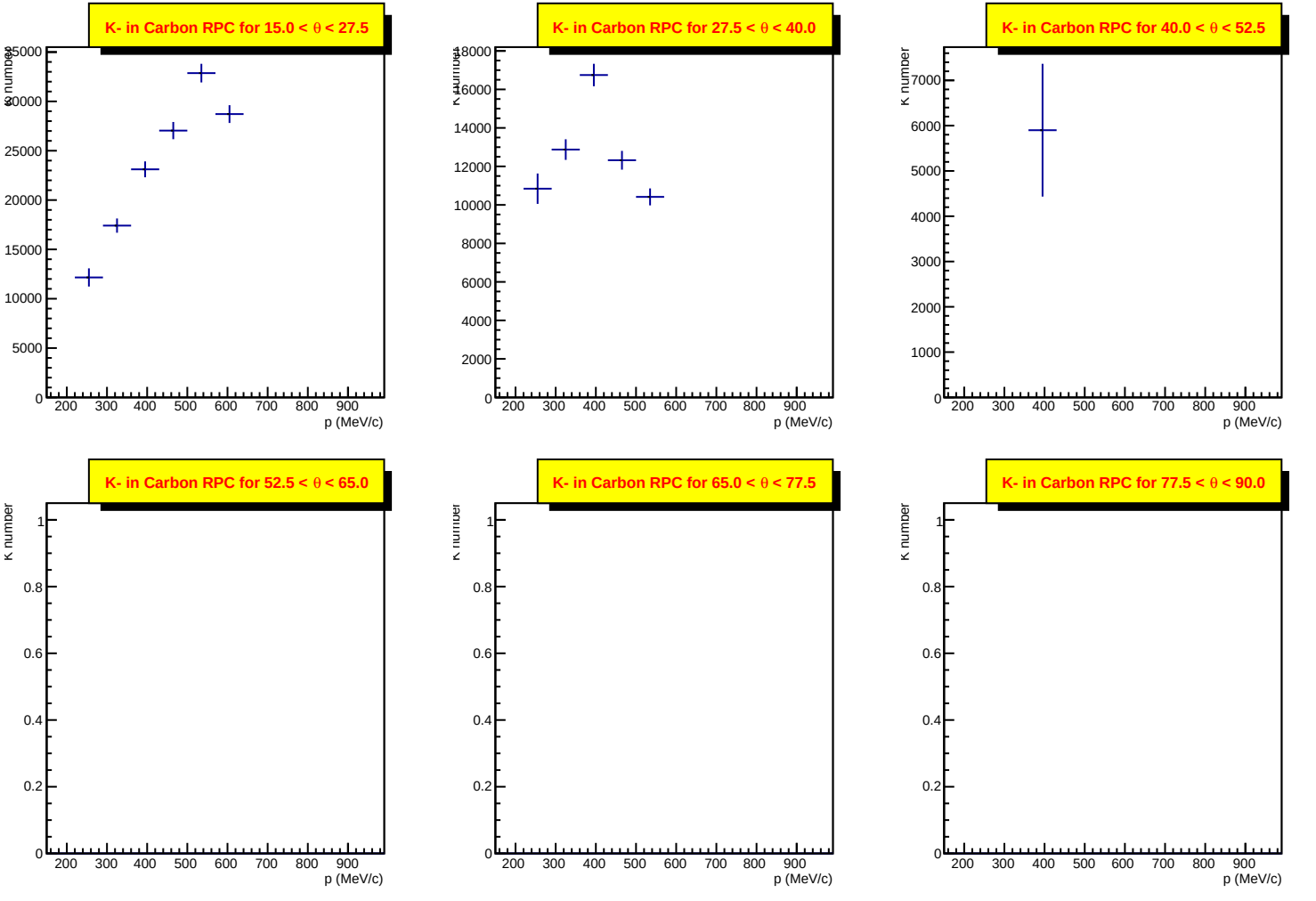

Corrected K matrix
carbkp_corrmat_0
Entries 2570474
p (MeV/c)
θ (deg)
102880 ± 2048
123199 ± 2338
31854 ± 1133
139648 ± 2323
148658 ± 2331
57591 ± 1558
165077 ± 2444
145158 ± 1968
57084 ± 1299
164864 ± 2345
159456 ± 1973
62405 ± 1220
144983 ± 2177
153630 ± 1882
52330 ± 993
130082 ± 2136
144409 ± 1843
54300 ± 987
98516 ± 1855
115895 ± 1565
43726 ± 783
61287 ± 1530
77996 ± 1216
32150 ± 604
35187 ± 1911
46831 ± 1322
21276 ± 655

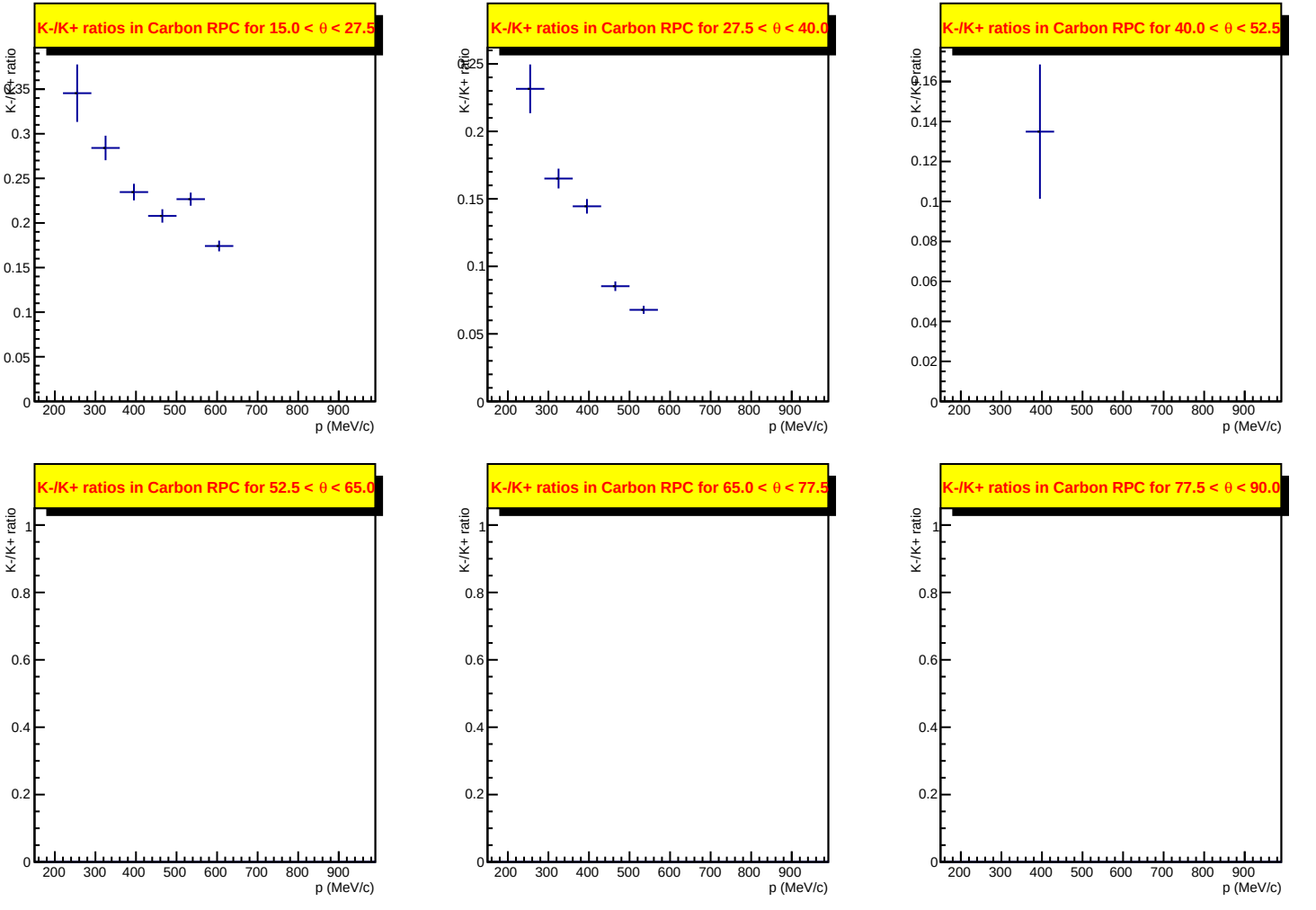
Corrected K matrix



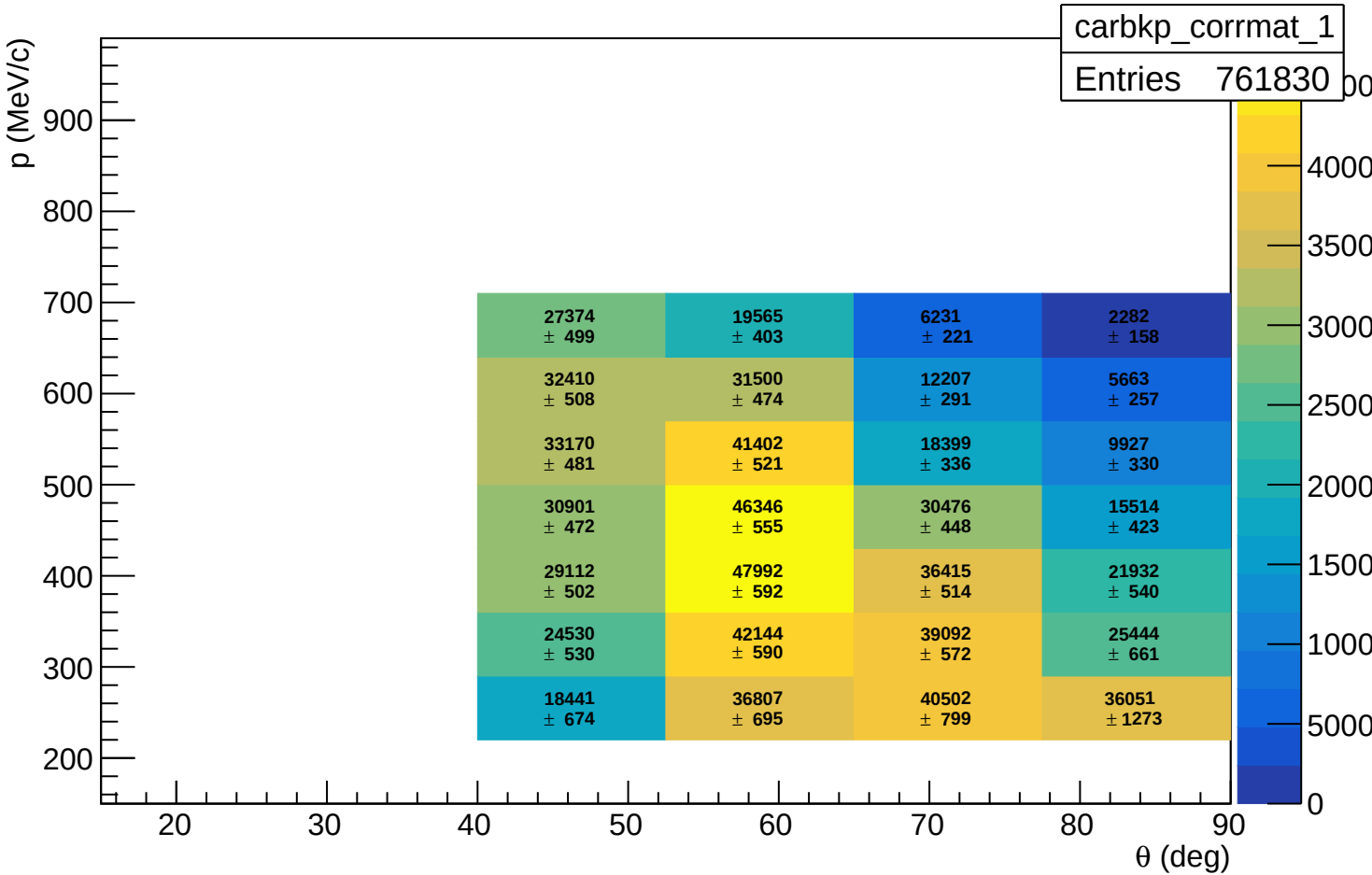

K-/K+ ratios in Carbon RPC
ratiocarb_0
Entries 72
p (MeV/c)
θ (deg)
0.174 ± 0.006
0.227 ± 0.007
0.068 ± 0.003
0.208 ± 0.008
0.085 ± 0.004
0.235 ± 0.009
0.144 ± 0.005
0.135 ± 0.034
0.284 ± 0.014
0.165 ± 0.007
0.345 ± 0.032
0.232 ± 0.018


K+ in Carbon RPC for 15.0 < θ < 27.5
K+ in Carbon RPC for 27.5 < θ < 40.0
K+ in Carbon RPC for 40.0 < θ < 52.5
K+ in Carbon RPC for 52.5 < θ < 65.0
K+ in Carbon RPC for 65.0 < θ < 77.5
K+ in Carbon RPC for 77.5 < θ < 90.0
K number
×10^3
p (MeV/c)

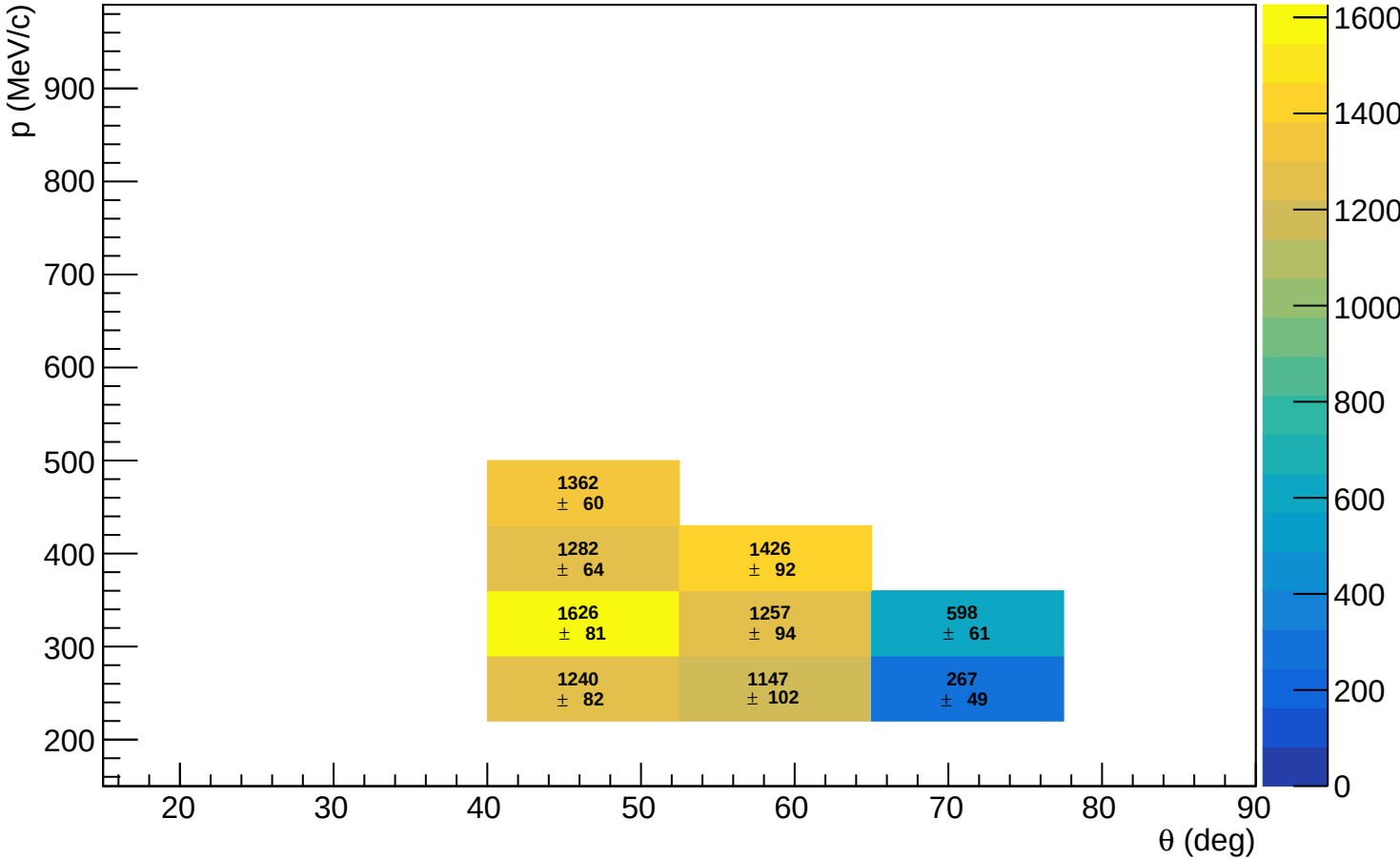

K- in Carbon RPC for 15.0 < θ < 27.5
K- in Carbon RPC for 27.5 < θ < 40.0
K- in Carbon RPC for 40.0 < θ < 52.5
K- in Carbon RPC for 52.5 < θ < 65.0
K- in Carbon RPC for 65.0 < θ < 77.5
K- in Carbon RPC for 77.5 < θ < 90.0
K number
p (MeV/c)

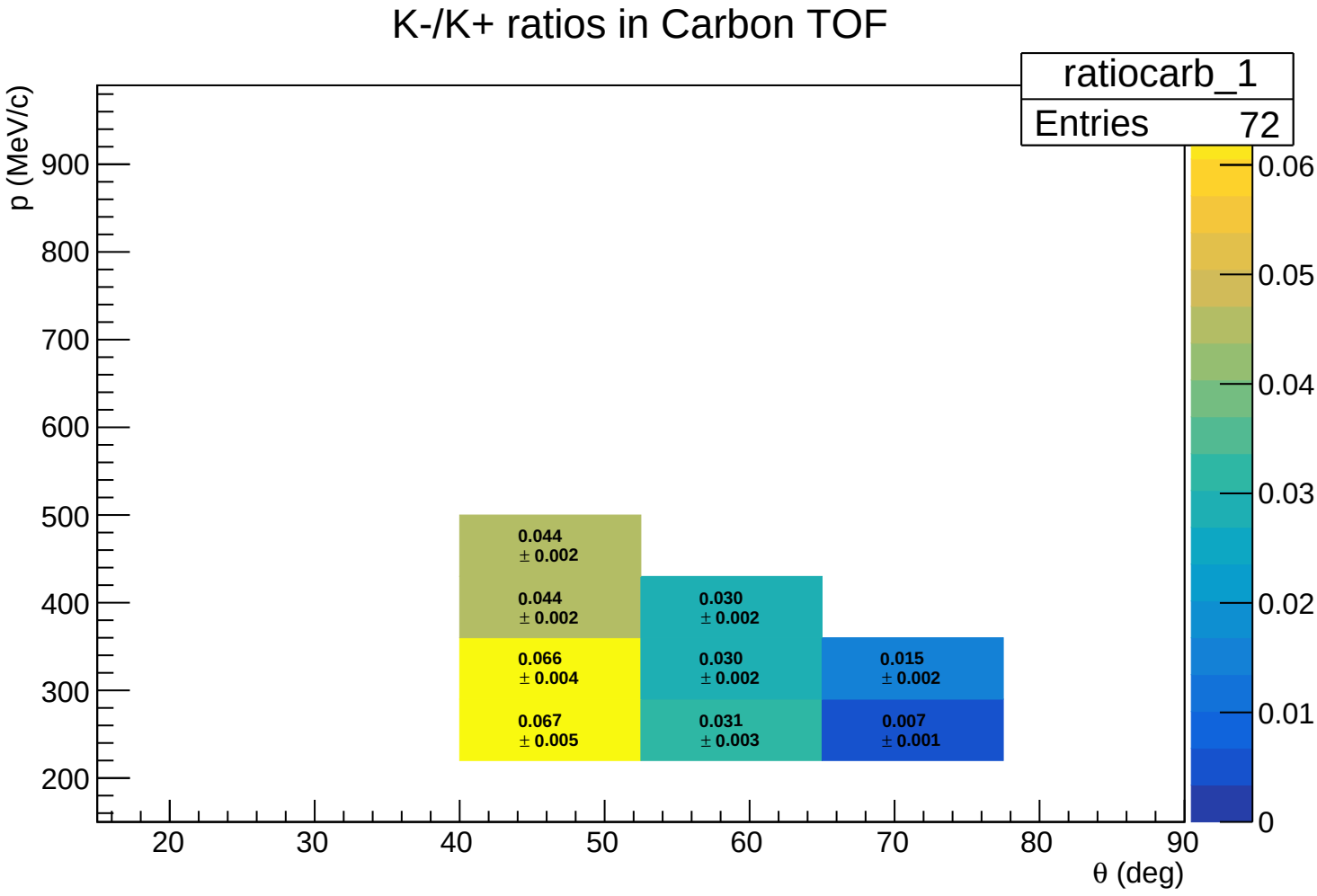

K-/K+ ratios in Carbon RPC for 15.0 < θ < 27.5
K-/K+ ratios in Carbon RPC for 27.5 < θ < 40.0
K-/K+ ratios in Carbon RPC for 40.0 < θ < 52.5
K-/K+ ratios in Carbon RPC for 52.5 < θ < 65.0
K-/K+ ratios in Carbon RPC for 65.0 < θ < 77.5
K-/K+ ratios in Carbon RPC for 77.5 < θ < 90.0
K-/K+ ratio
p (MeV/c)

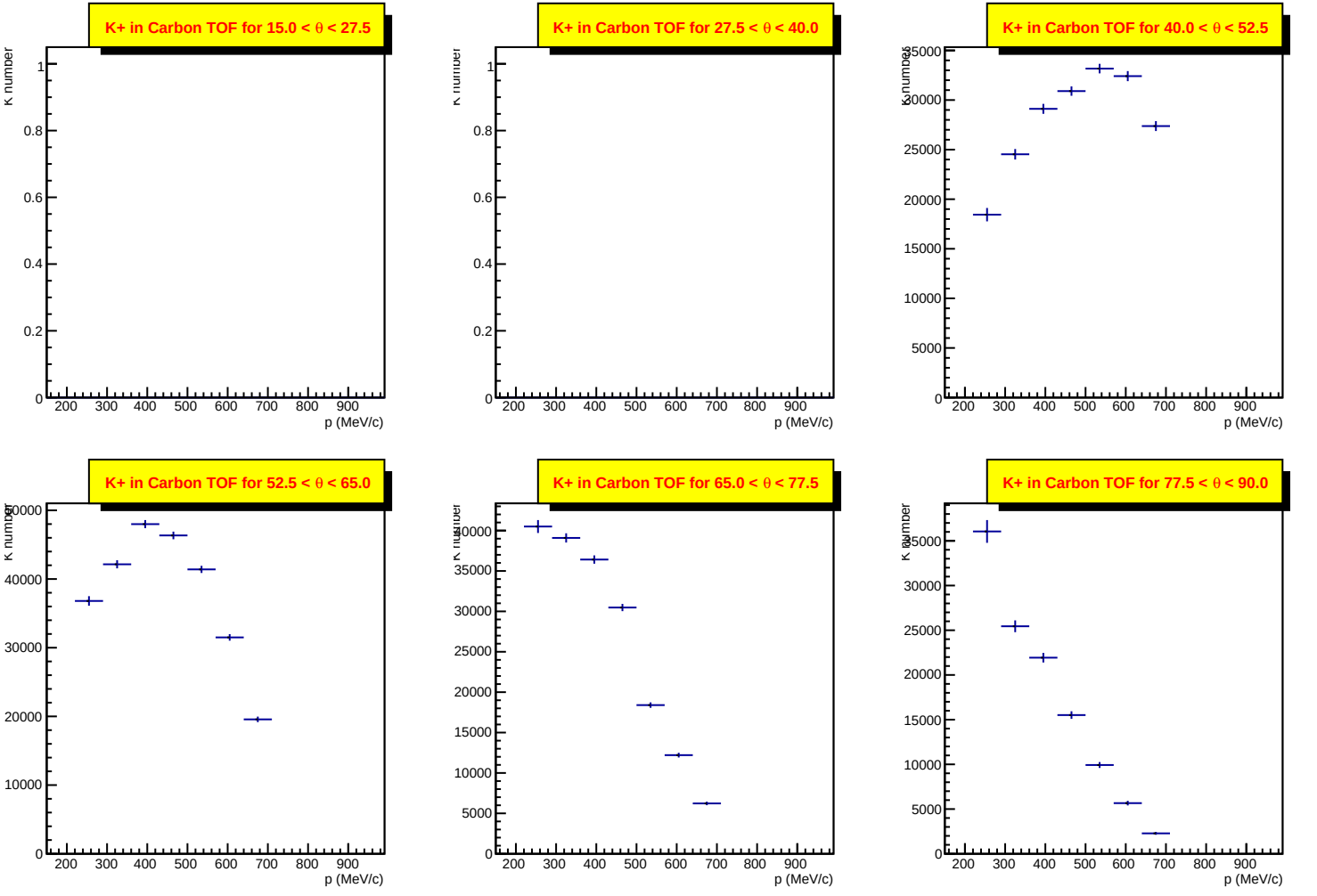
Corrected K matrix

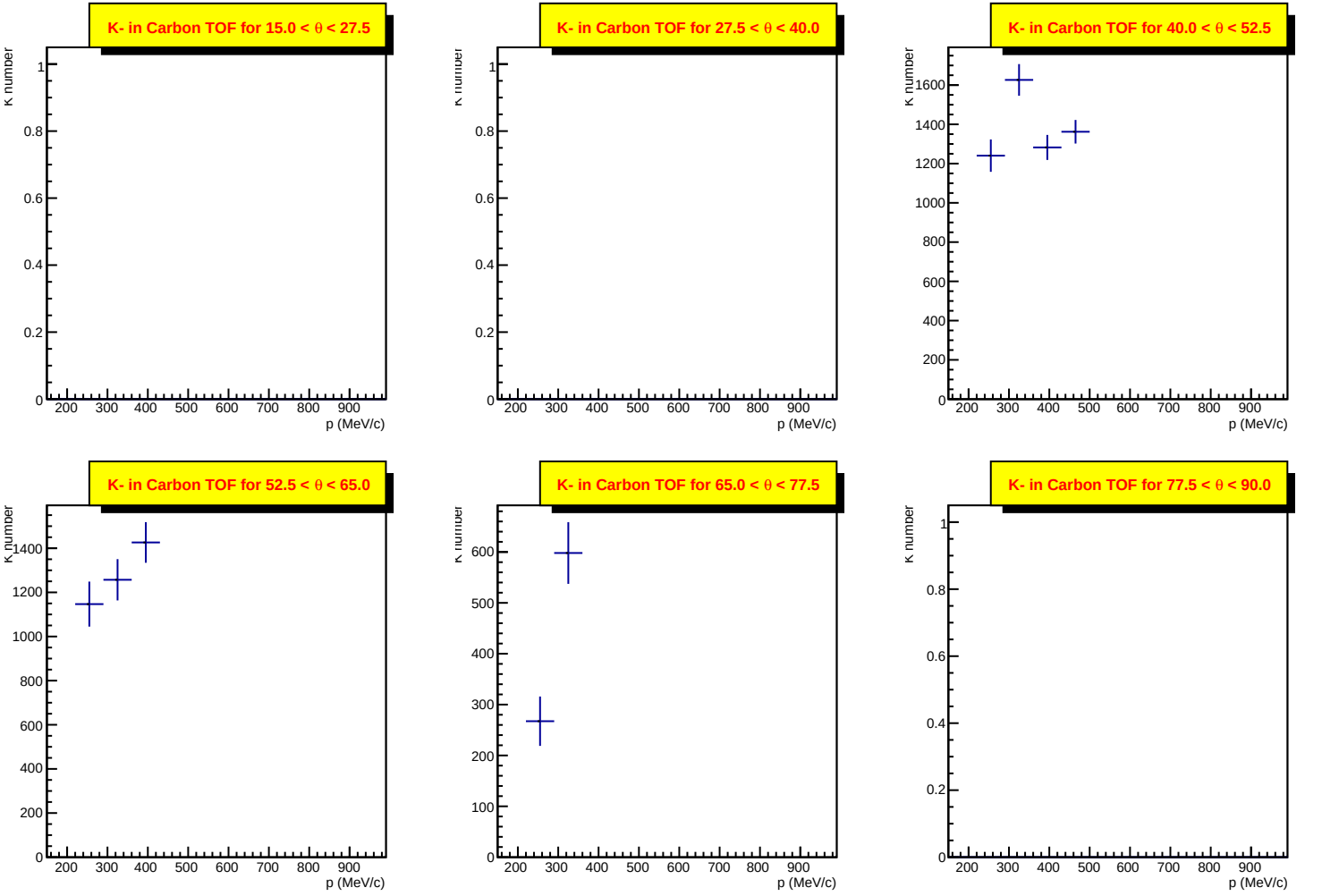


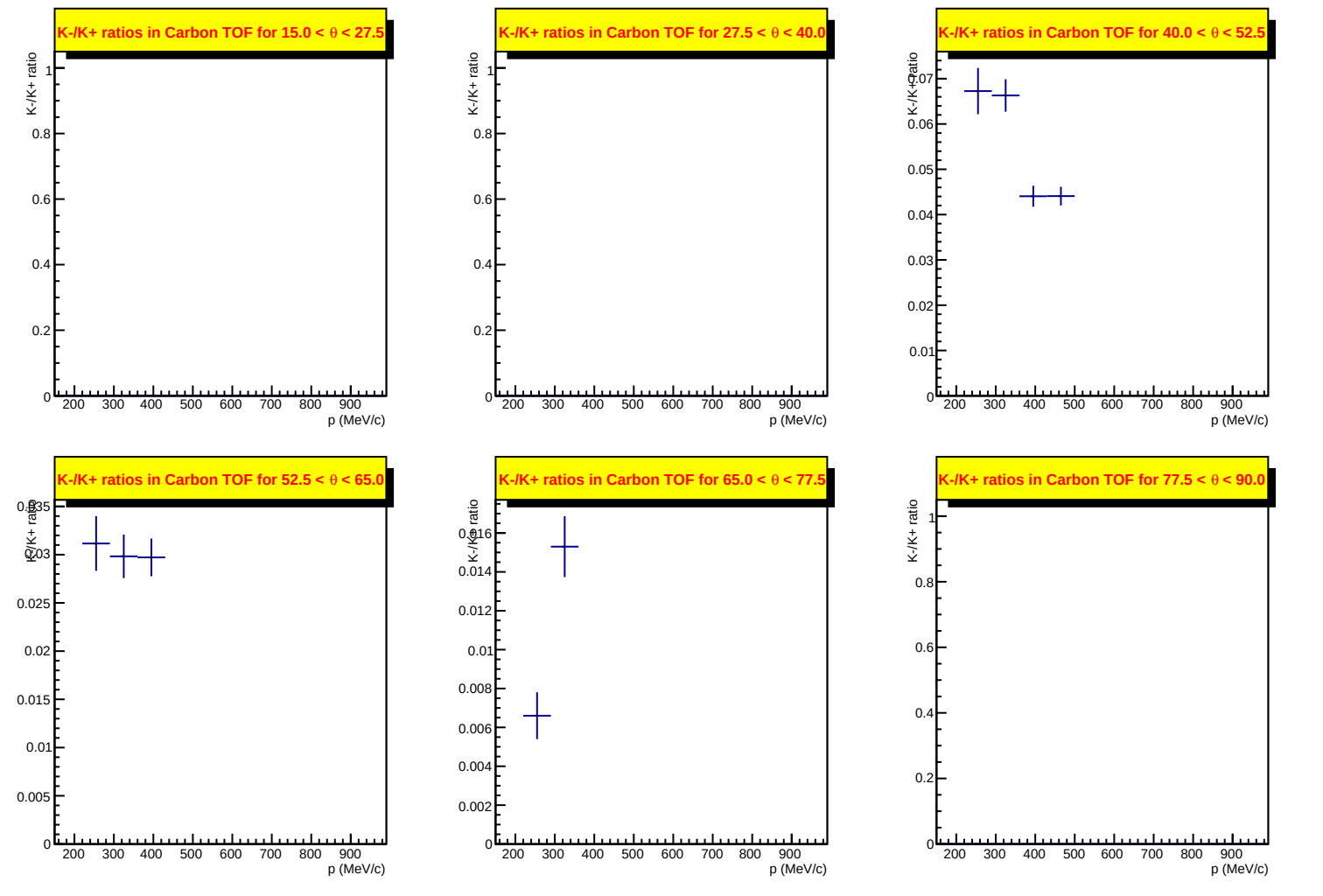
Corrected K matrix



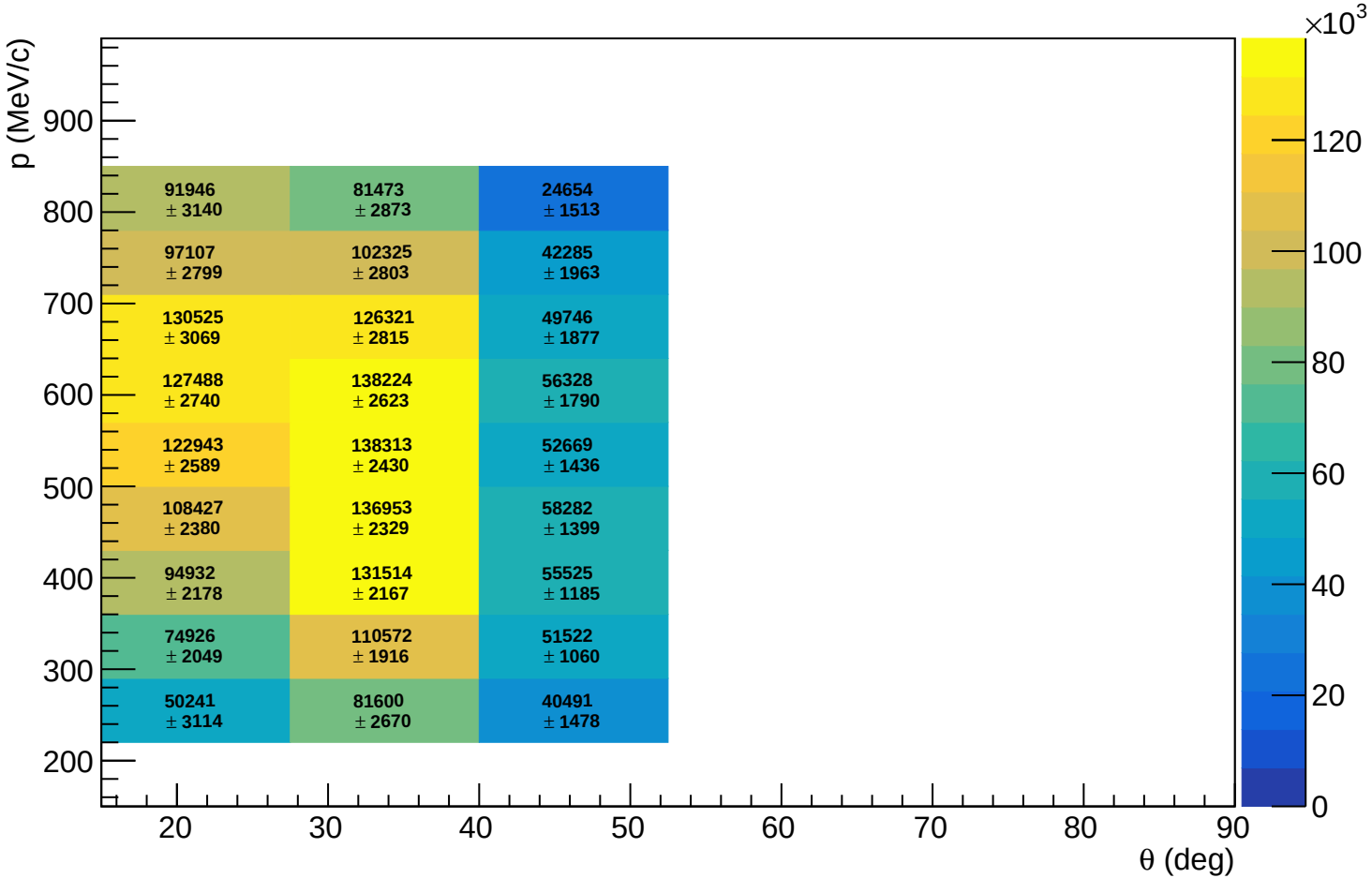

K-/K+ ratios in Carbon TOF
ratiocarb_1
Entries 72
p (MeV/c)
θ (deg)
0.044
± 0.002
0.044
± 0.002
0.030
± 0.002
0.066
± 0.004
0.030
± 0.002
0.015
± 0.002
0.067
± 0.005
0.031
± 0.003
0.007
± 0.001


K+ in Carbon TOF for 15.0 < θ < 27.5
K+ in Carbon TOF for 27.5 < θ < 40.0
K+ in Carbon TOF for 40.0 < θ < 52.5
K+ in Carbon TOF for 52.5 < θ < 65.0
K+ in Carbon TOF for 65.0 < θ < 77.5
K+ in Carbon TOF for 77.5 < θ < 90.0
K number
p (MeV/c)

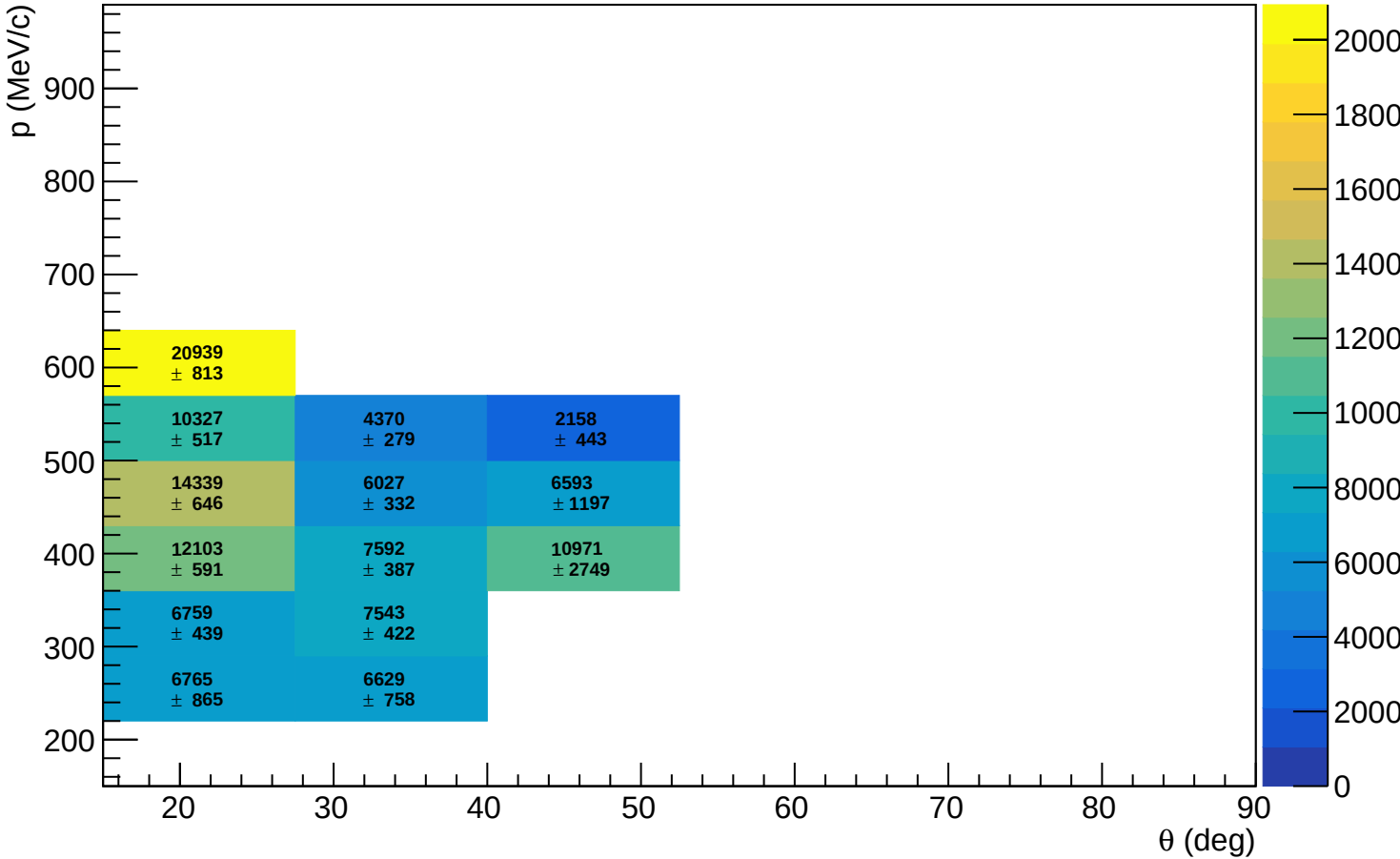

K- in Carbon TOF for 15.0 < θ < 27.5
K- in Carbon TOF for 27.5 < θ < 40.0
K- in Carbon TOF for 40.0 < θ < 52.5
K- in Carbon TOF for 52.5 < θ < 65.0
K- in Carbon TOF for 65.0 < θ < 77.5
K- in Carbon TOF for 77.5 < θ < 90.0
K number
p (MeV/c)

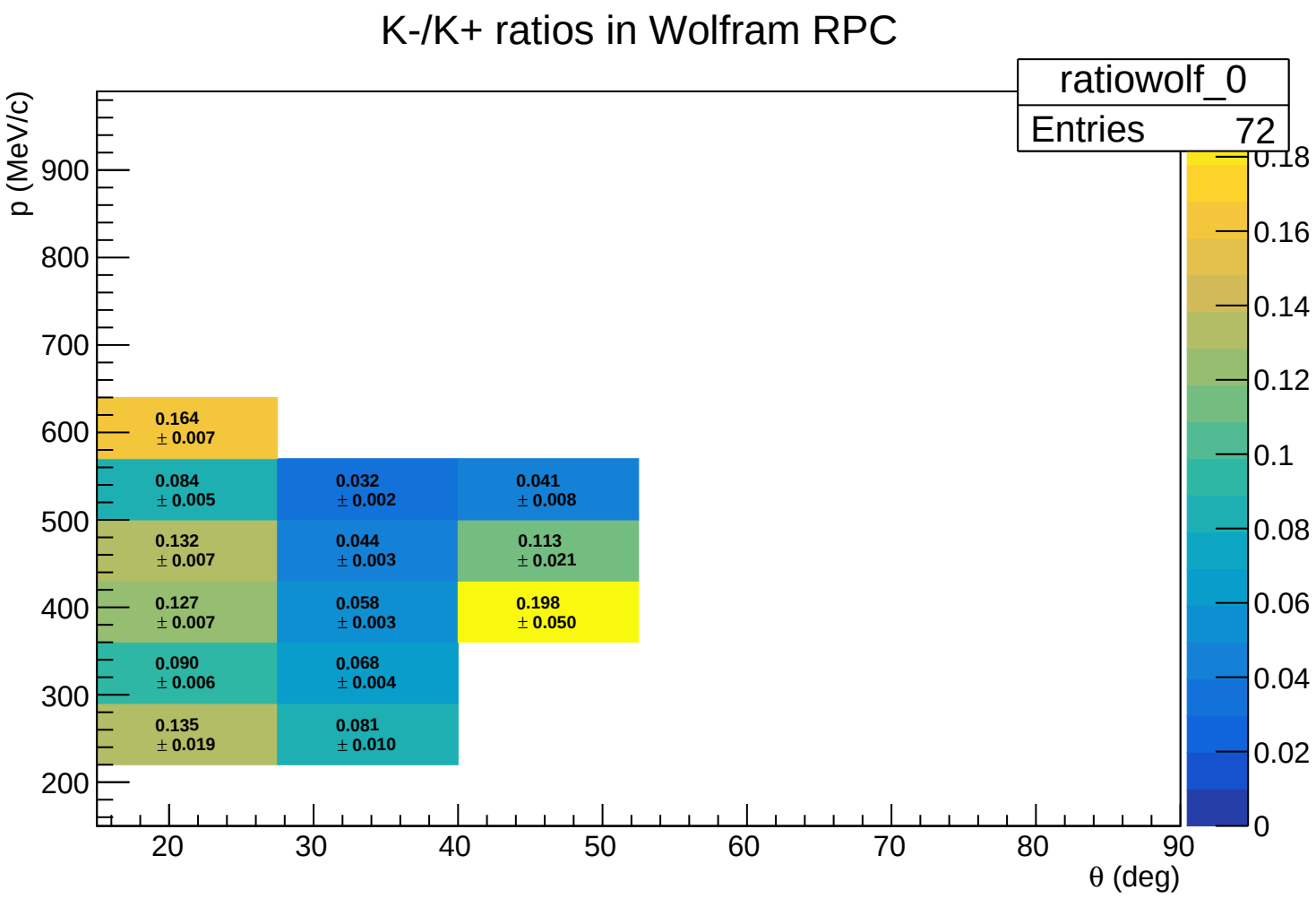

K-/K+ ratios in Carbon TOF for 15.0 < θ < 27.5
K-/K+ ratios in Carbon TOF for 27.5 < θ < 40.0
K-/K+ ratios in Carbon TOF for 40.0 < θ < 52.5
K-/K+ ratios in Carbon TOF for 52.5 < θ < 65.0
K-/K+ ratios in Carbon TOF for 65.0 < θ < 77.5
K-/K+ ratios in Carbon TOF for 77.5 < θ < 90.0
K-/K+ ratio
p (MeV/c)

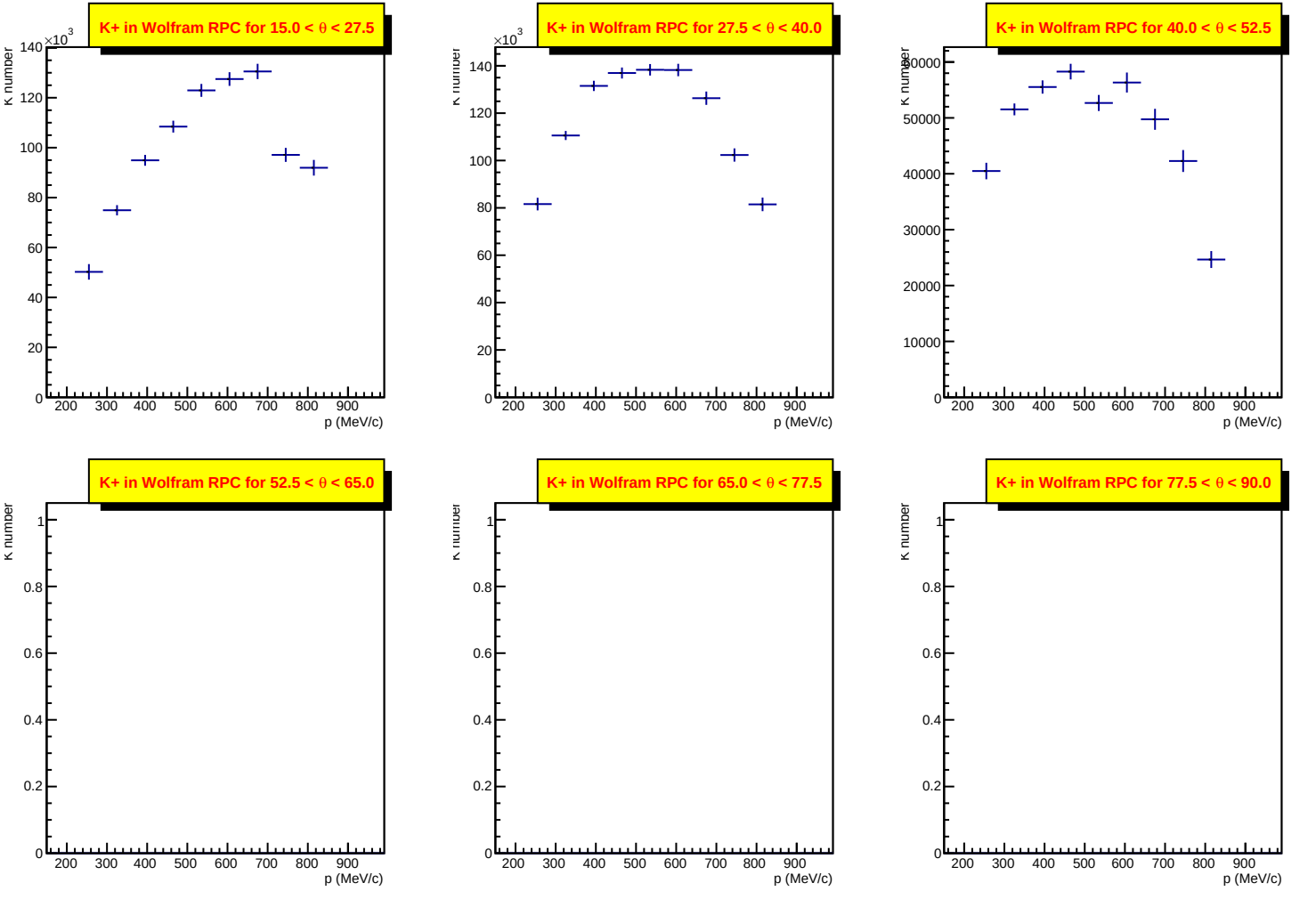
Corrected K matrix

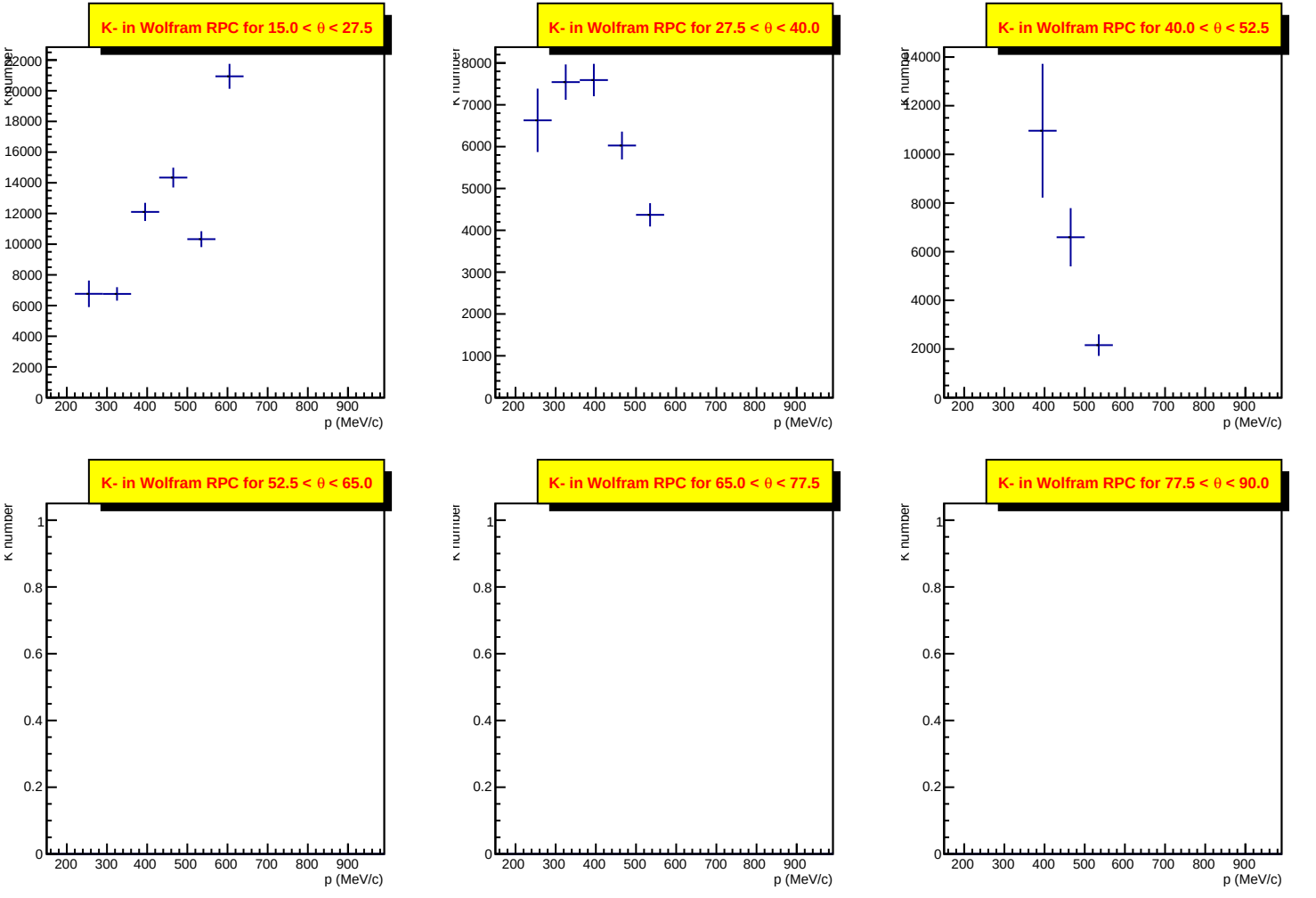


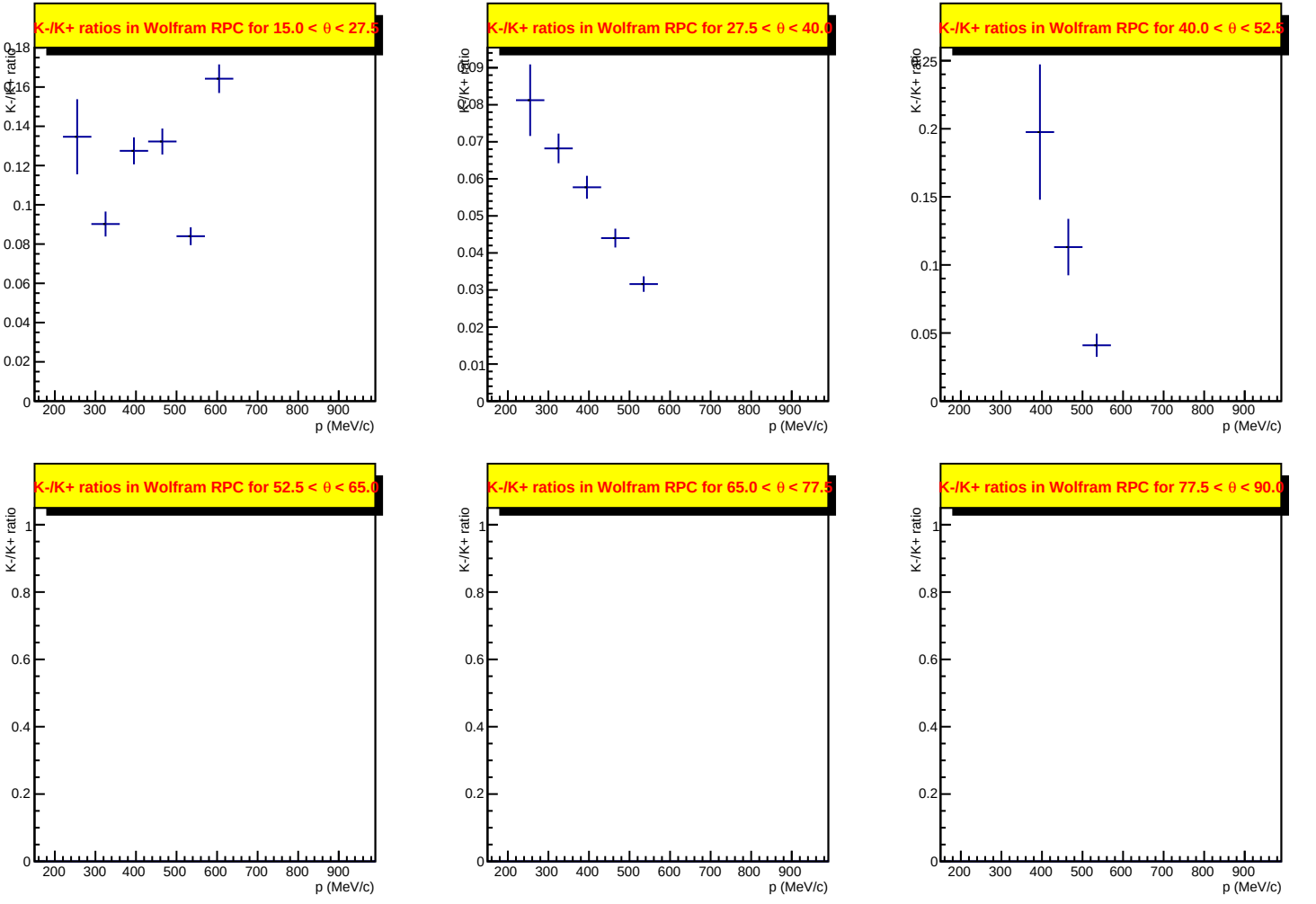
Corrected K matrix



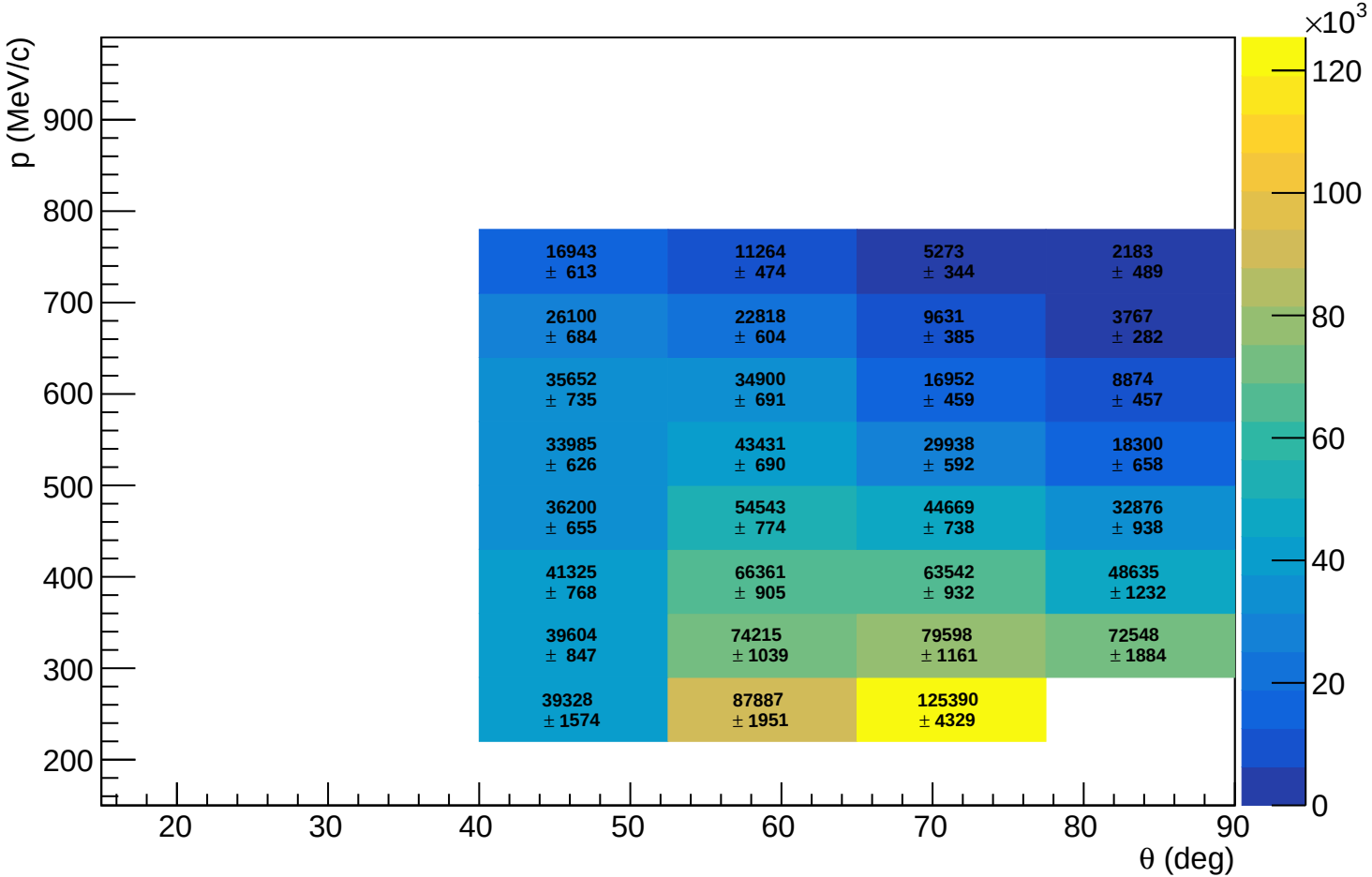

K-/K+ ratios in Wolfram RPC
ratiowolf_0
Entries 72
p (MeV/c)
θ (deg)
0.164 ± 0.007
0.084 ± 0.005
0.032 ± 0.002
0.041 ± 0.008
0.132 ± 0.007
0.044 ± 0.003
0.113 ± 0.021
0.127 ± 0.007
0.058 ± 0.003
0.198 ± 0.050
0.090 ± 0.006
0.068 ± 0.004
0.135 ± 0.019
0.081 ± 0.010


K+ in Wolfram RPC for 15.0 < θ < 27.5
K+ in Wolfram RPC for 27.5 < θ < 40.0
K+ in Wolfram RPC for 40.0 < θ < 52.5
K+ in Wolfram RPC for 52.5 < θ < 65.0
K+ in Wolfram RPC for 65.0 < θ < 77.5
K+ in Wolfram RPC for 77.5 < θ < 90.0
K number
p (MeV/c)
×10^3

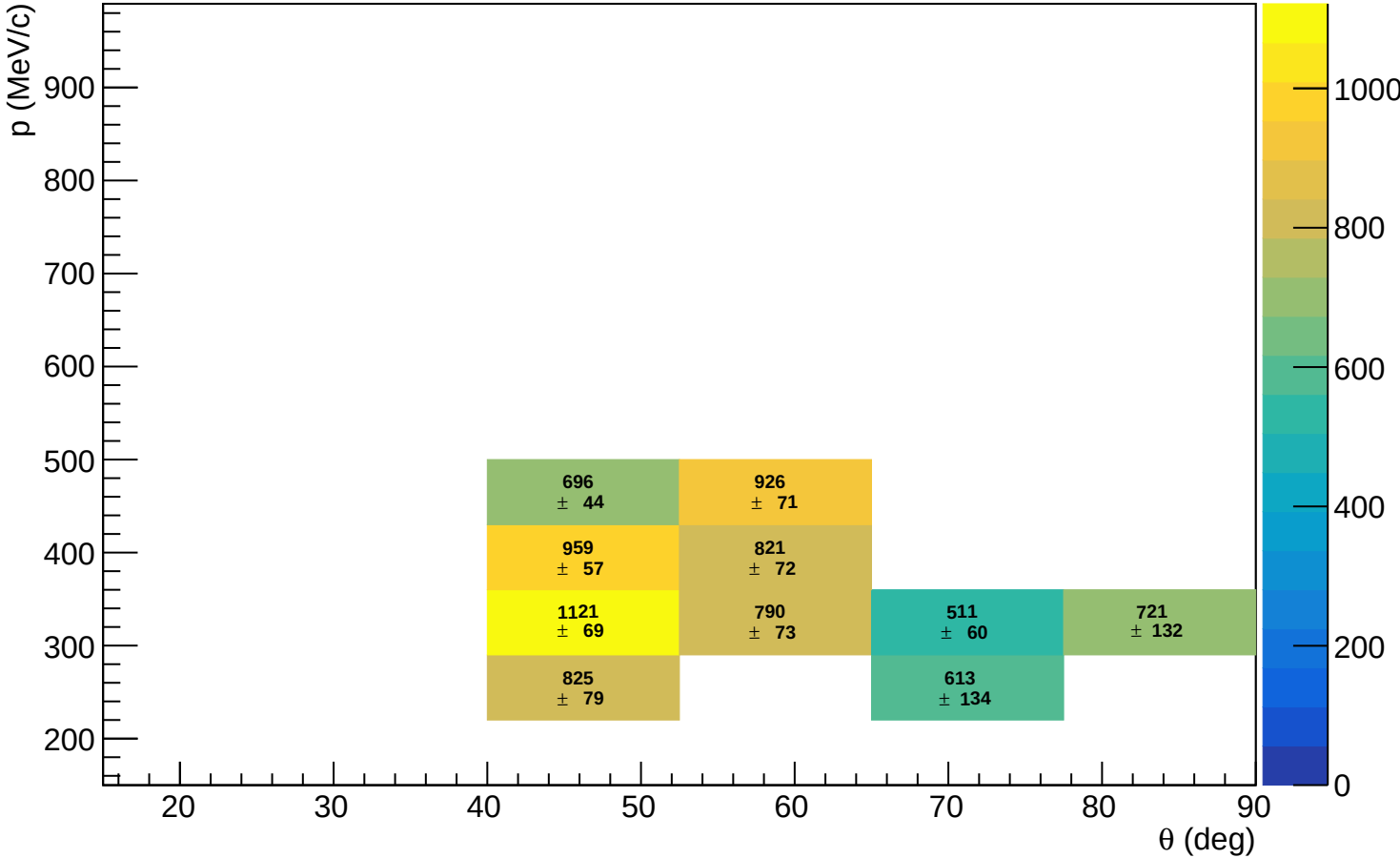

K- in Wolfram RPC for 15.0 < θ < 27.5
K- in Wolfram RPC for 27.5 < θ < 40.0
K- in Wolfram RPC for 40.0 < θ < 52.5
K- in Wolfram RPC for 52.5 < θ < 65.0
K- in Wolfram RPC for 65.0 < θ < 77.5
K- in Wolfram RPC for 77.5 < θ < 90.0
K number
p (MeV/c)

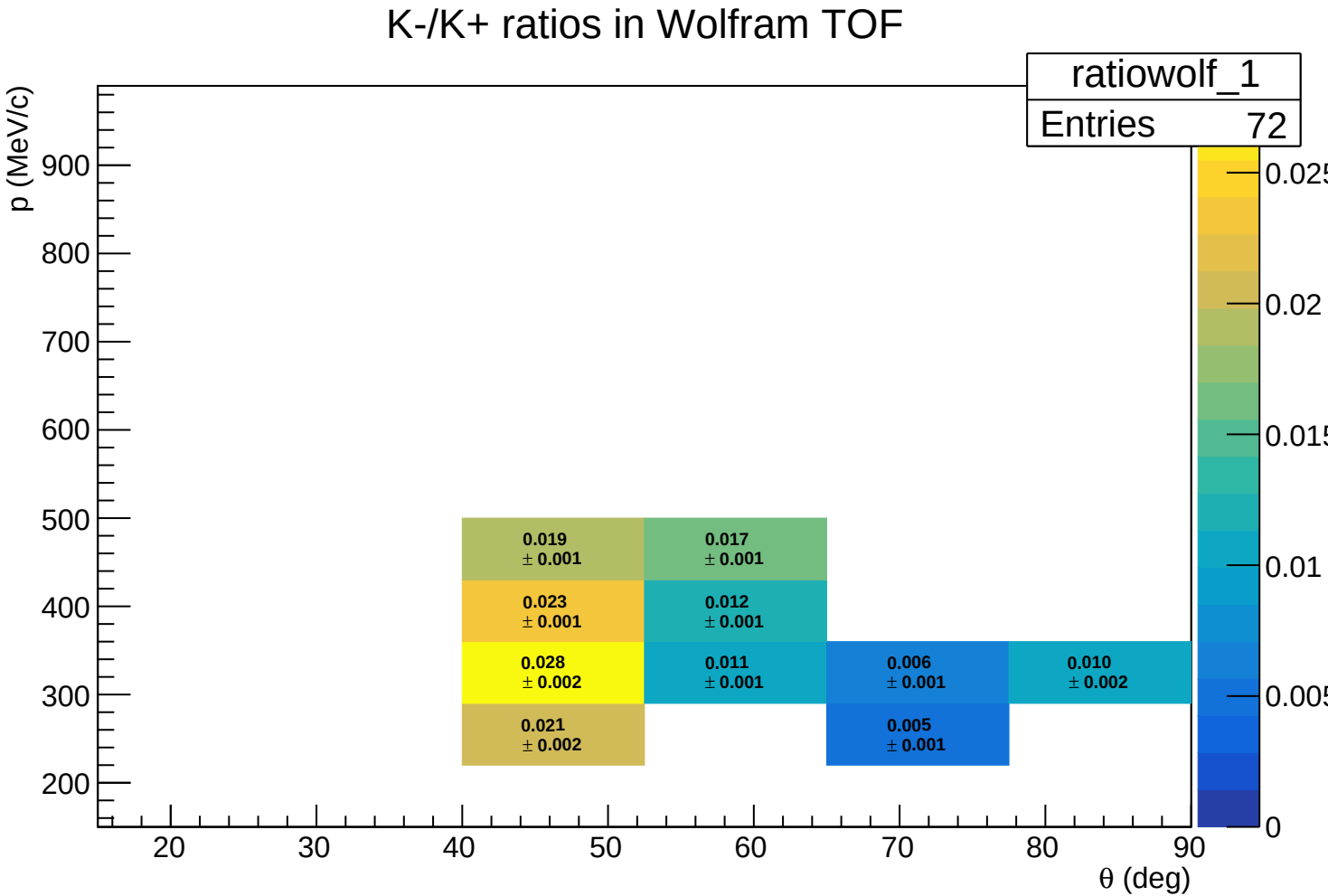

K-/K+ ratios in Wolfram RPC for 15.0 < θ < 27.5
K-/K+ ratios in Wolfram RPC for 27.5 < θ < 40.0
K-/K+ ratios in Wolfram RPC for 40.0 < θ < 52.5
K-/K+ ratios in Wolfram RPC for 52.5 < θ < 65.0
K-/K+ ratios in Wolfram RPC for 65.0 < θ < 77.5
K-/K+ ratios in Wolfram RPC for 77.5 < θ < 90.0
K-/K+ ratio
p (MeV/c)

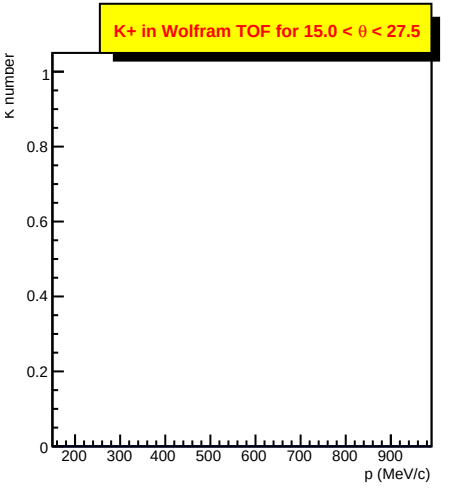
Corrected K matrix

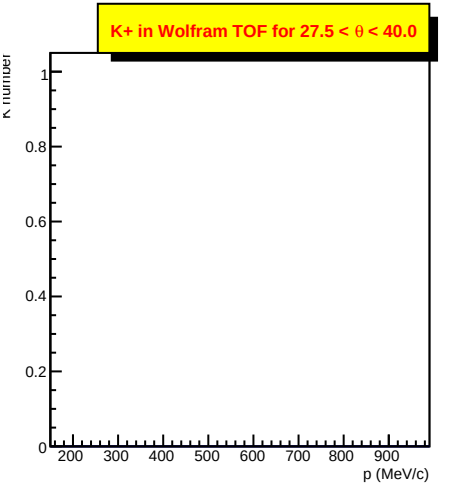


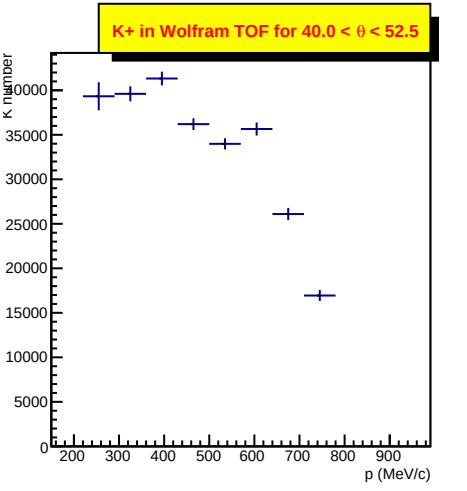
Corrected K matrix

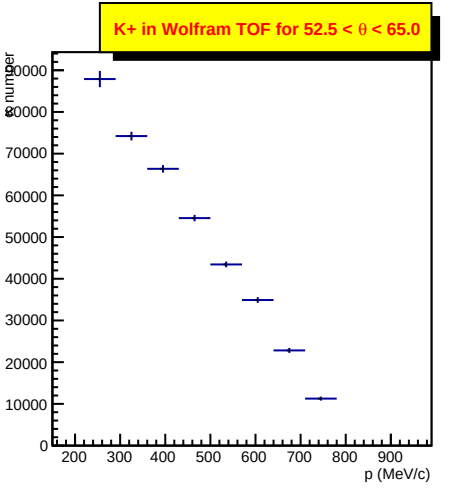


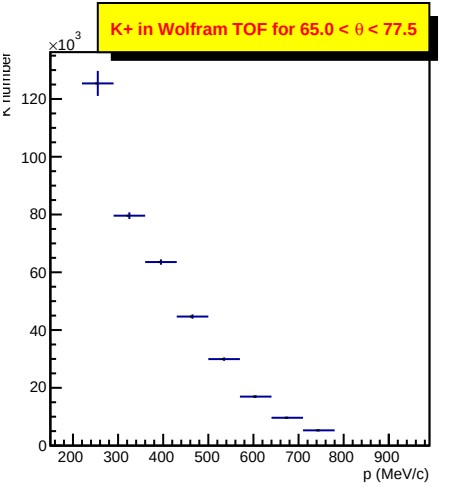

K-/K+ ratios in Wolfram TOF
ratiowolf_1
Entries 72
p (MeV/c)
θ (deg)
0.019 ± 0.001
0.017 ± 0.001
0.023 ± 0.001
0.012 ± 0.001
0.028 ± 0.002
0.011 ± 0.001
0.006 ± 0.001
0.010 ± 0.002
0.021 ± 0.002
0.005 ± 0.001

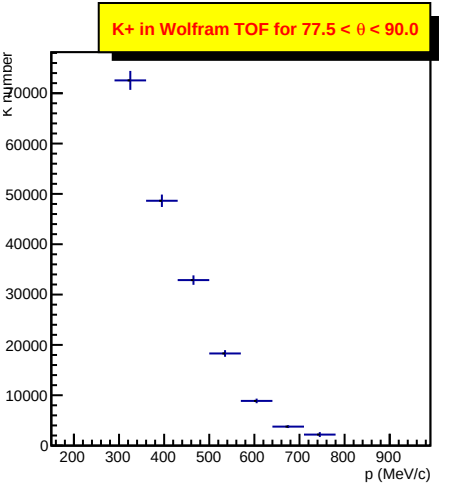

K+ in Wolfram TOF for 15.0 < θ < 27.5
K number
p (MeV/c)

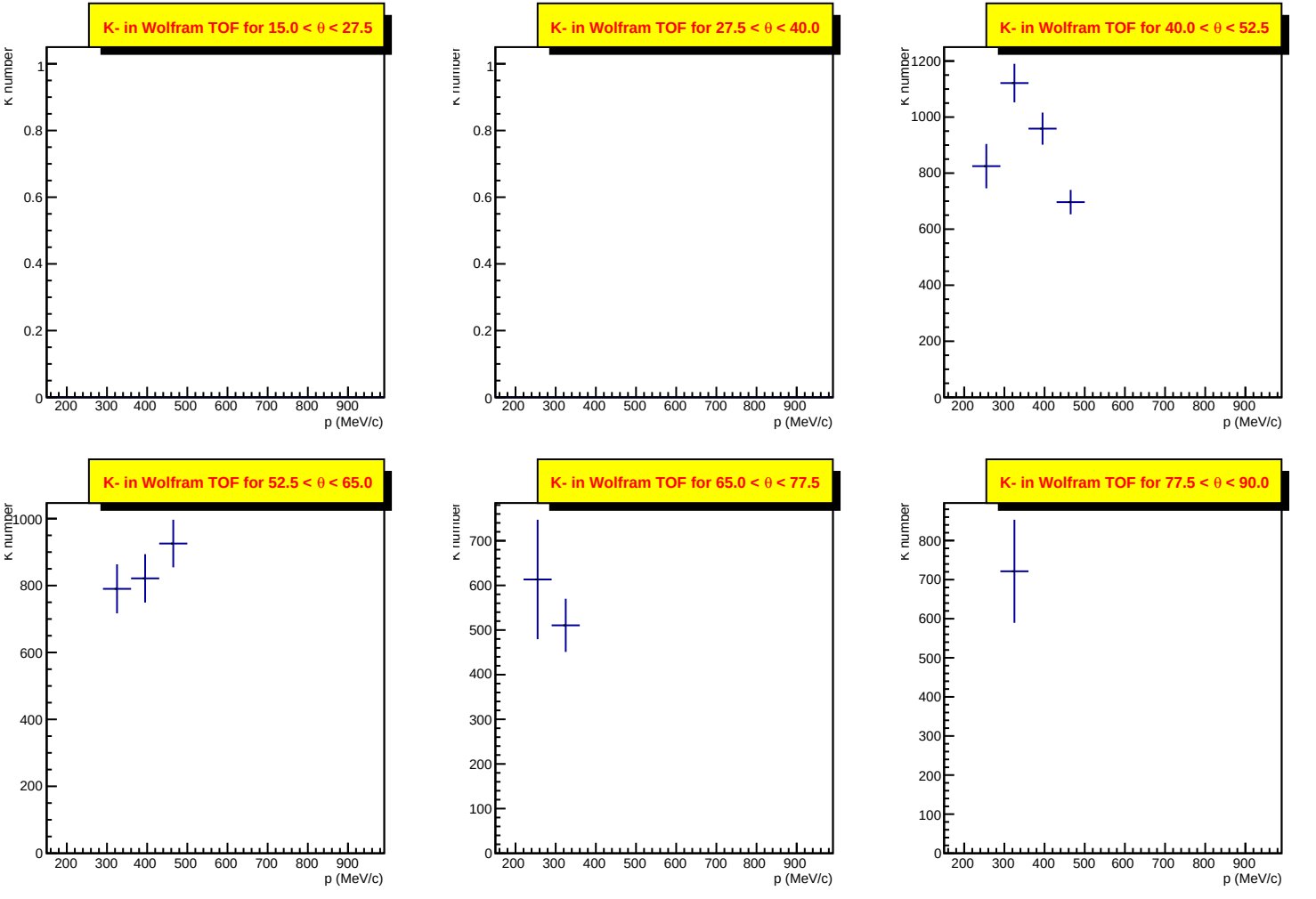

K+ in Wolfram TOF for 27.5 < θ < 40.0
K number
p (MeV/c)

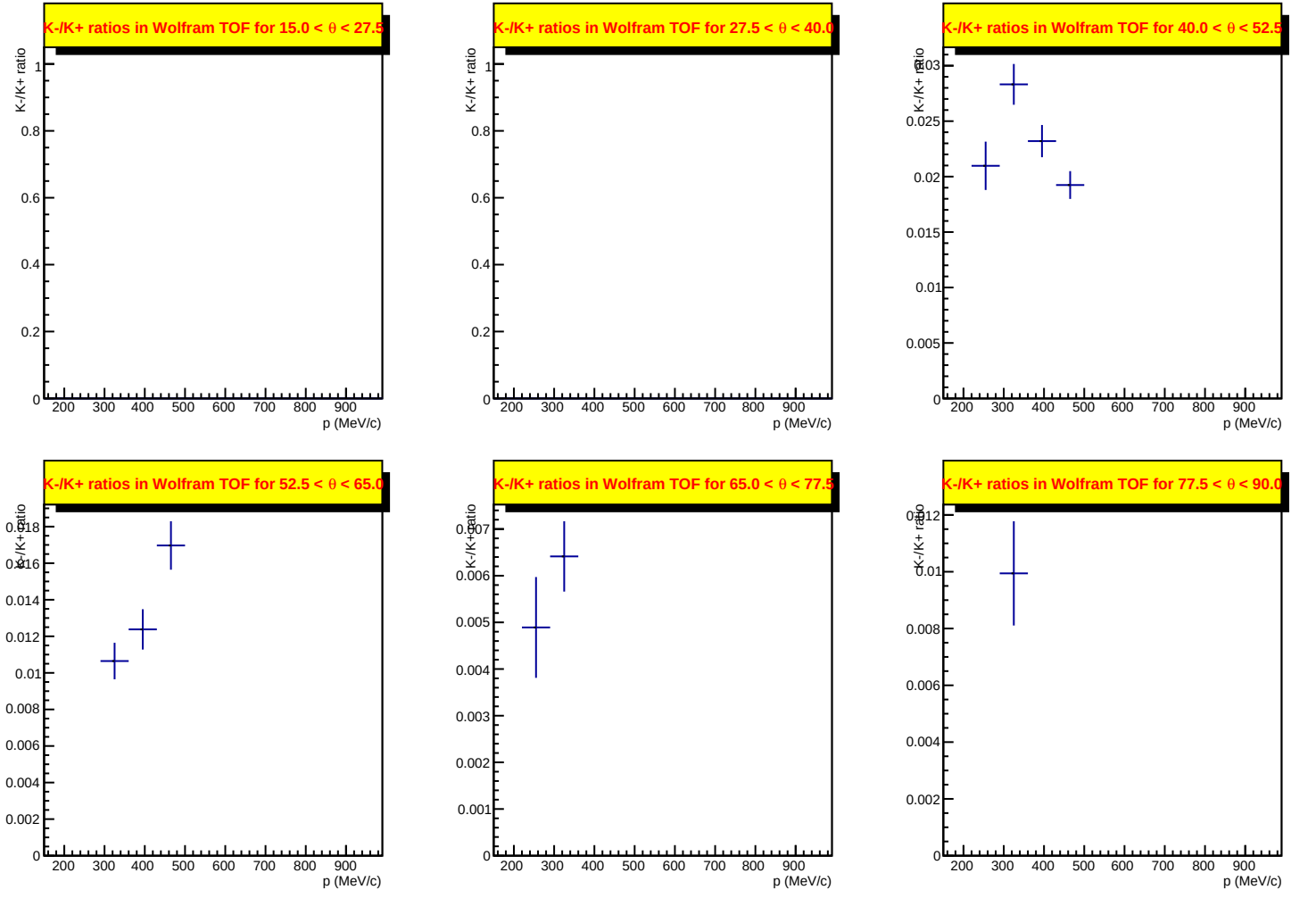

K+ in Wolfram TOF for 40.0 < θ < 52.5
K number
p (MeV/c)

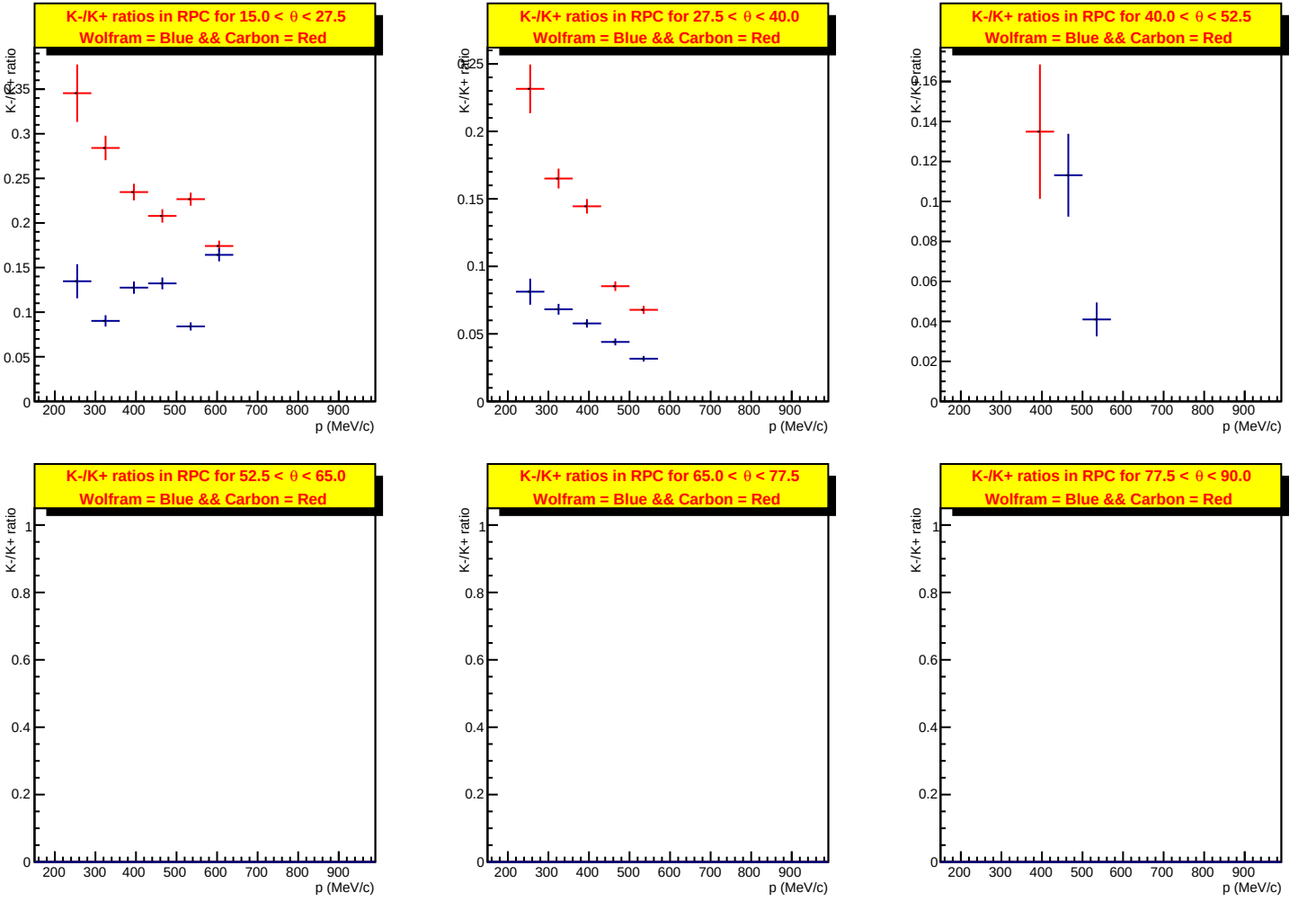

K+ in Wolfram TOF for 52.5 < θ < 65.0
K number
p (MeV/c)

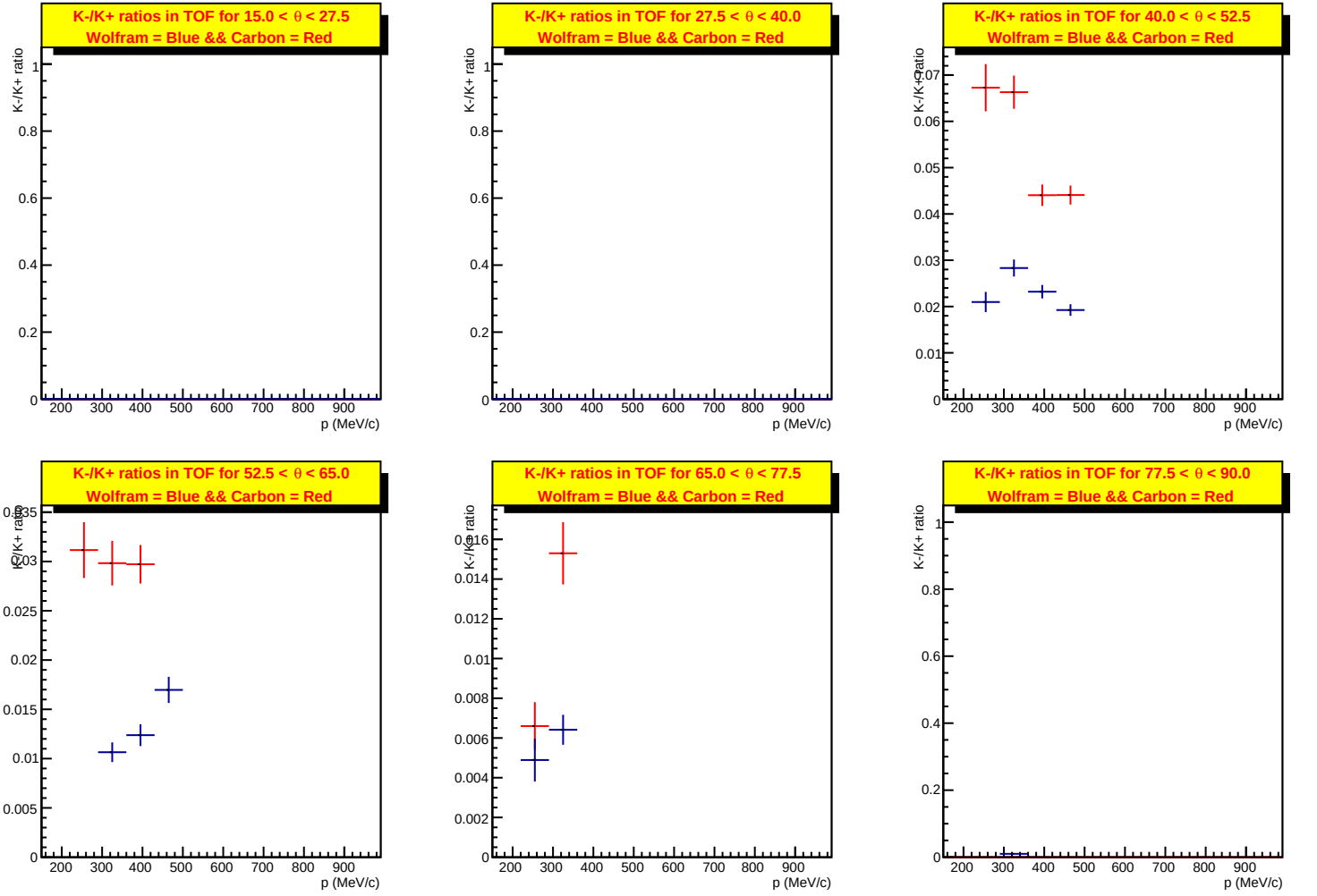

K+ in Wolfram TOF for 65.0 < θ < 77.5
×10^3
K number
p (MeV/c)

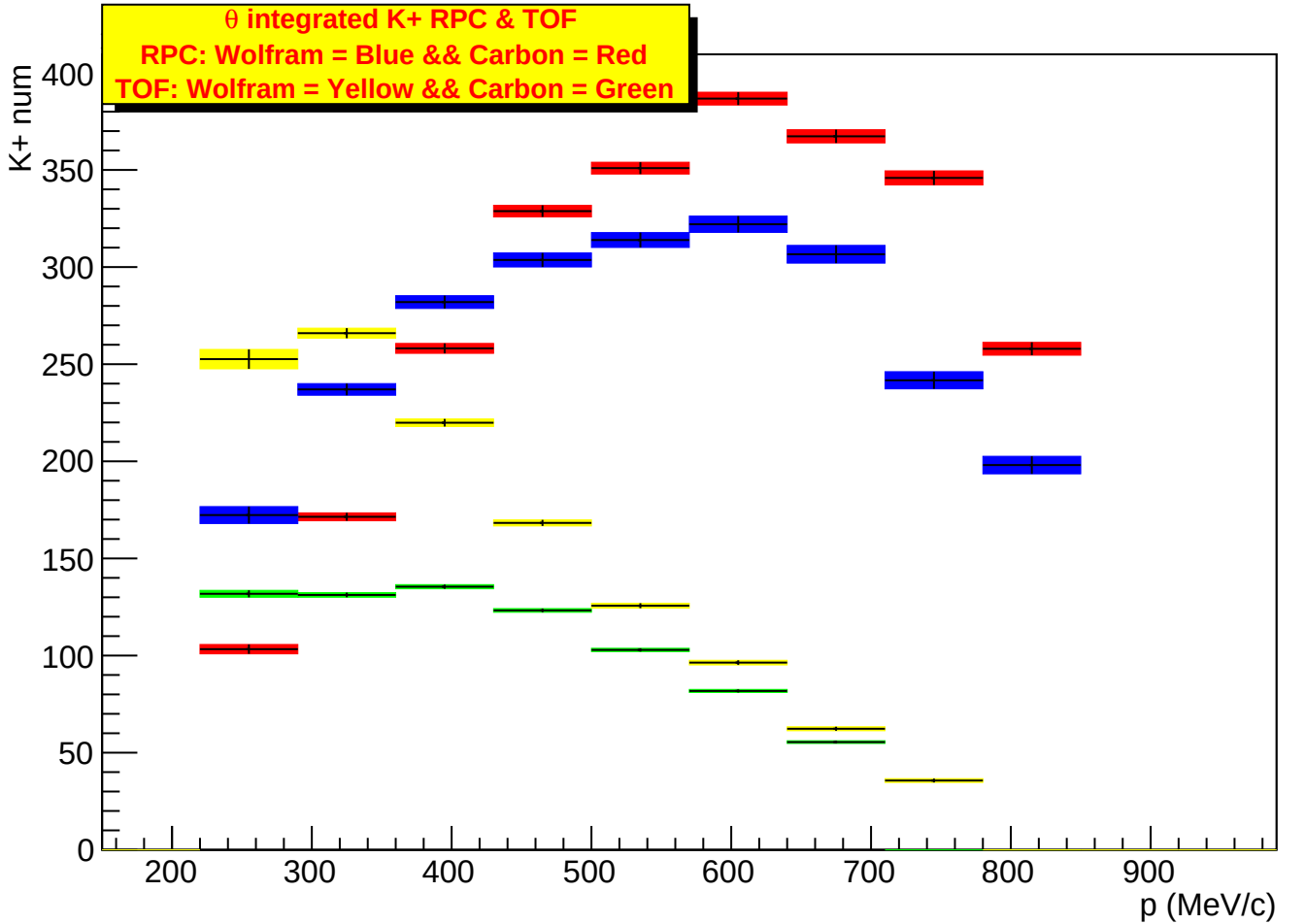

K+ in Wolfram TOF for 77.5 < θ < 90.0
K number
p (MeV/c)

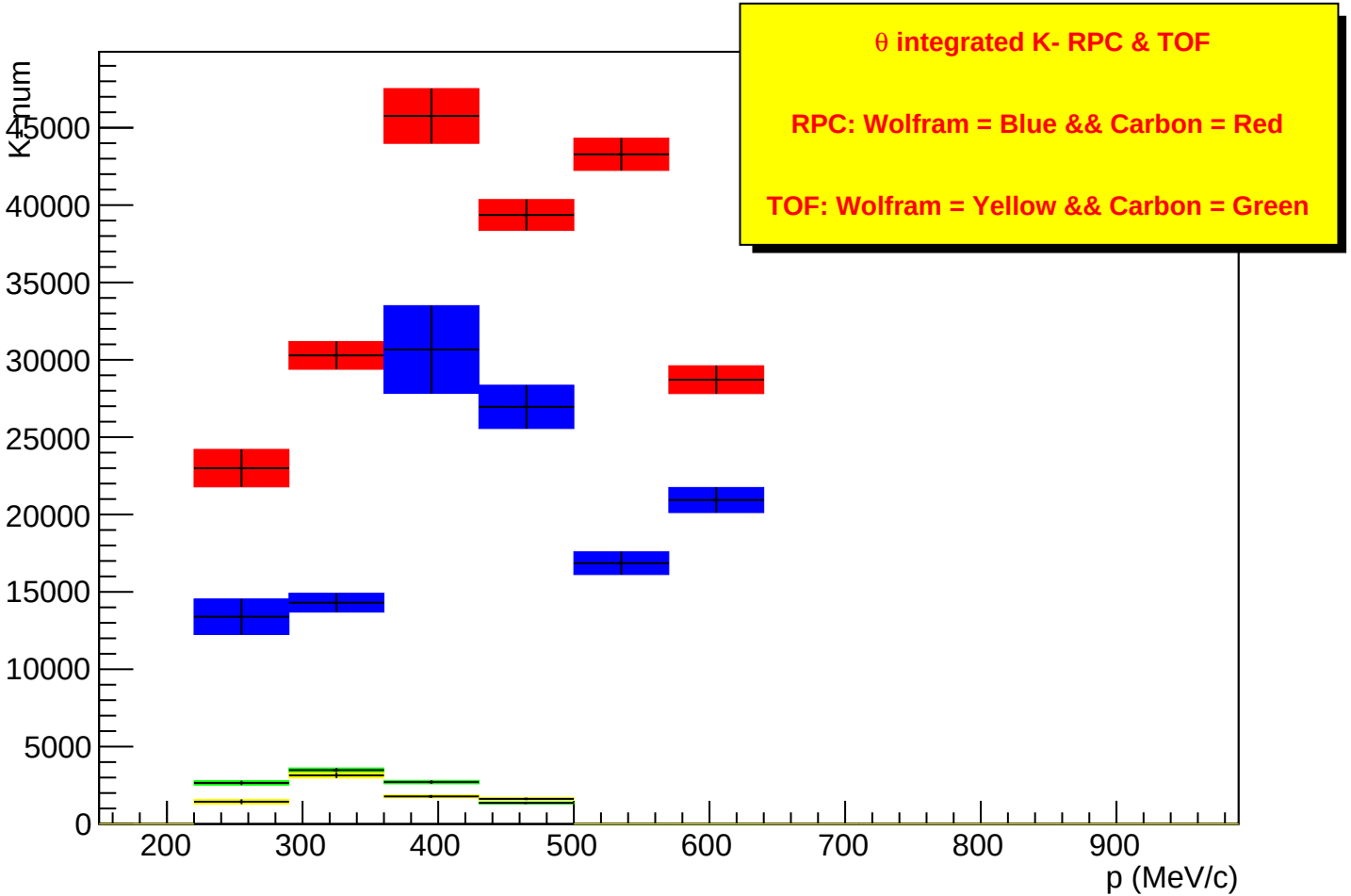

K- in Wolfram TOF for 15.0 < θ < 27.5
K- in Wolfram TOF for 27.5 < θ < 40.0
K- in Wolfram TOF for 40.0 < θ < 52.5
K- in Wolfram TOF for 52.5 < θ < 65.0
K- in Wolfram TOF for 65.0 < θ < 77.5
K- in Wolfram TOF for 77.5 < θ < 90.0
K number
p (MeV/c)

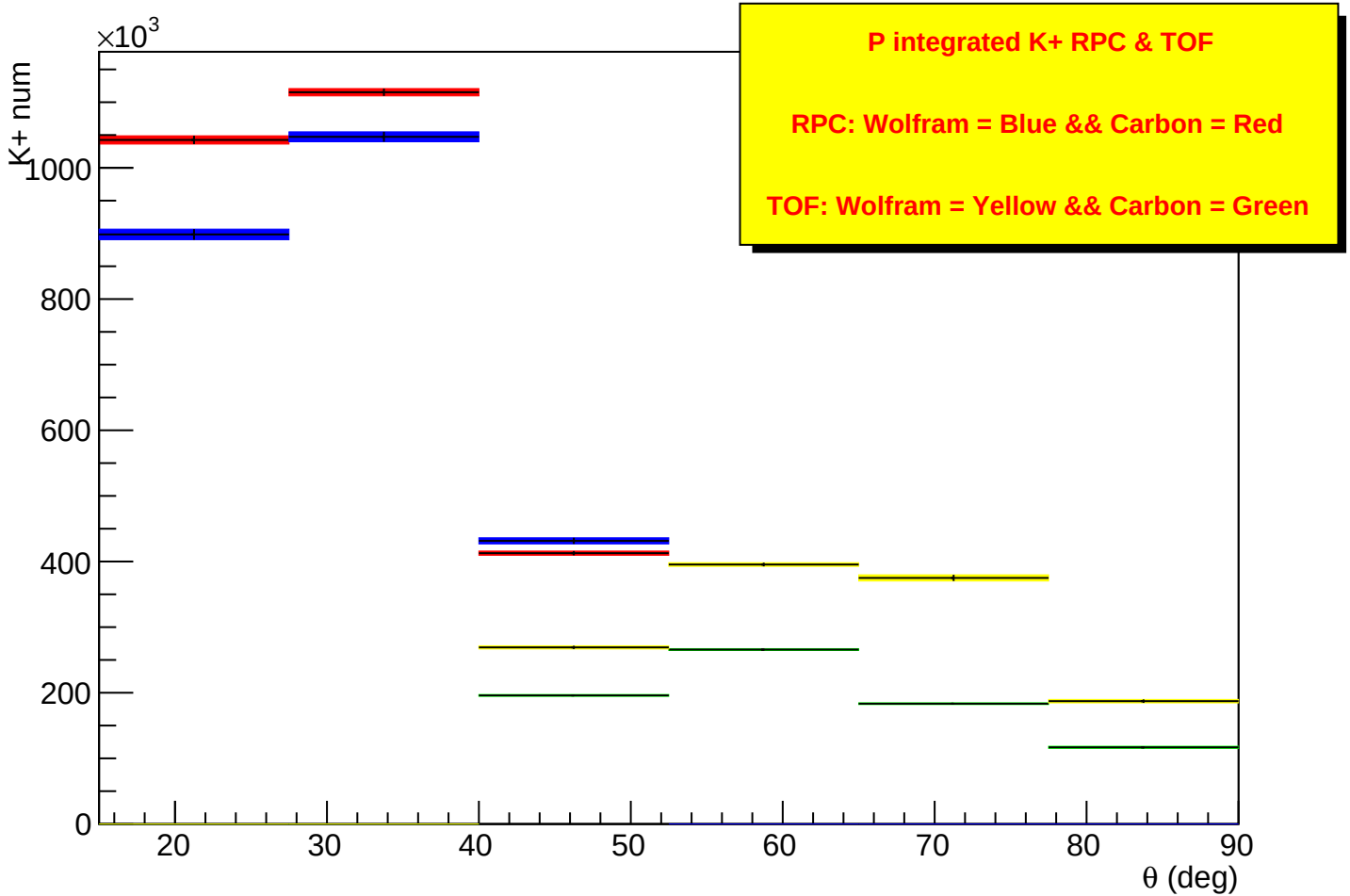

K-/K+ ratios in Wolfram TOF for 15.0 < θ < 27.5
K-/K+ ratios in Wolfram TOF for 27.5 < θ < 40.0
K-/K+ ratios in Wolfram TOF for 40.0 < θ < 52.5
K-/K+ ratios in Wolfram TOF for 52.5 < θ < 65.0
K-/K+ ratios in Wolfram TOF for 65.0 < θ < 77.5
K-/K+ ratios in Wolfram TOF for 77.5 < θ < 90.0
K-/K+ ratio
p (MeV/c)

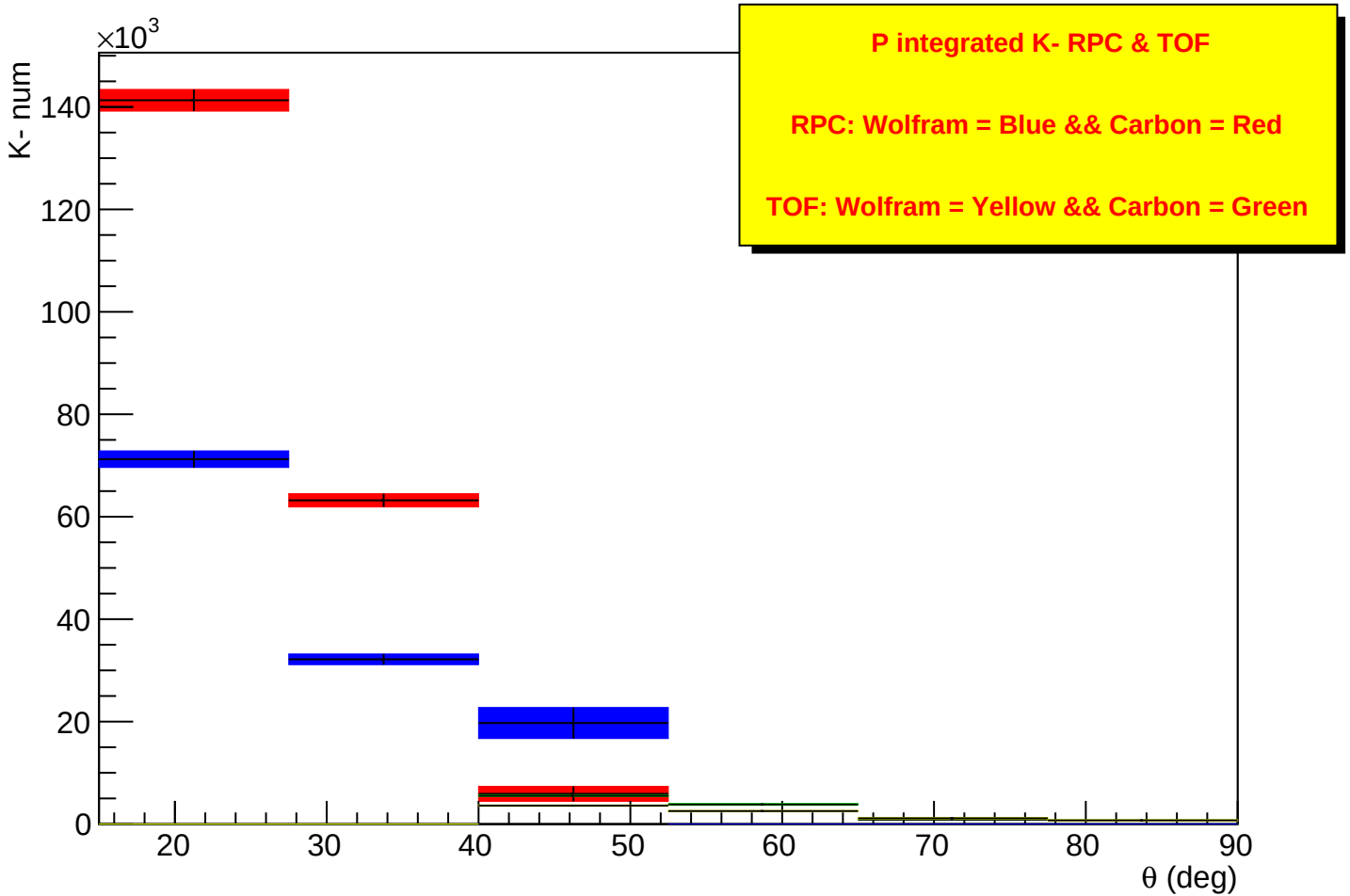

K-/K+ ratios in RPC for 15.0 < θ < 27.5
Wolfram = Blue && Carbon = Red
K-/K+ ratios in RPC for 27.5 < θ < 40.0
Wolfram = Blue && Carbon = Red
K-/K+ ratios in RPC for 40.0 < θ < 52.5
Wolfram = Blue && Carbon = Red
K-/K+ ratios in RPC for 52.5 < θ < 65.0
Wolfram = Blue && Carbon = Red
K-/K+ ratios in RPC for 65.0 < θ < 77.5
Wolfram = Blue && Carbon = Red
K-/K+ ratios in RPC for 77.5 < θ < 90.0
Wolfram = Blue && Carbon = Red
K-/K+ ratio
p (MeV/c)

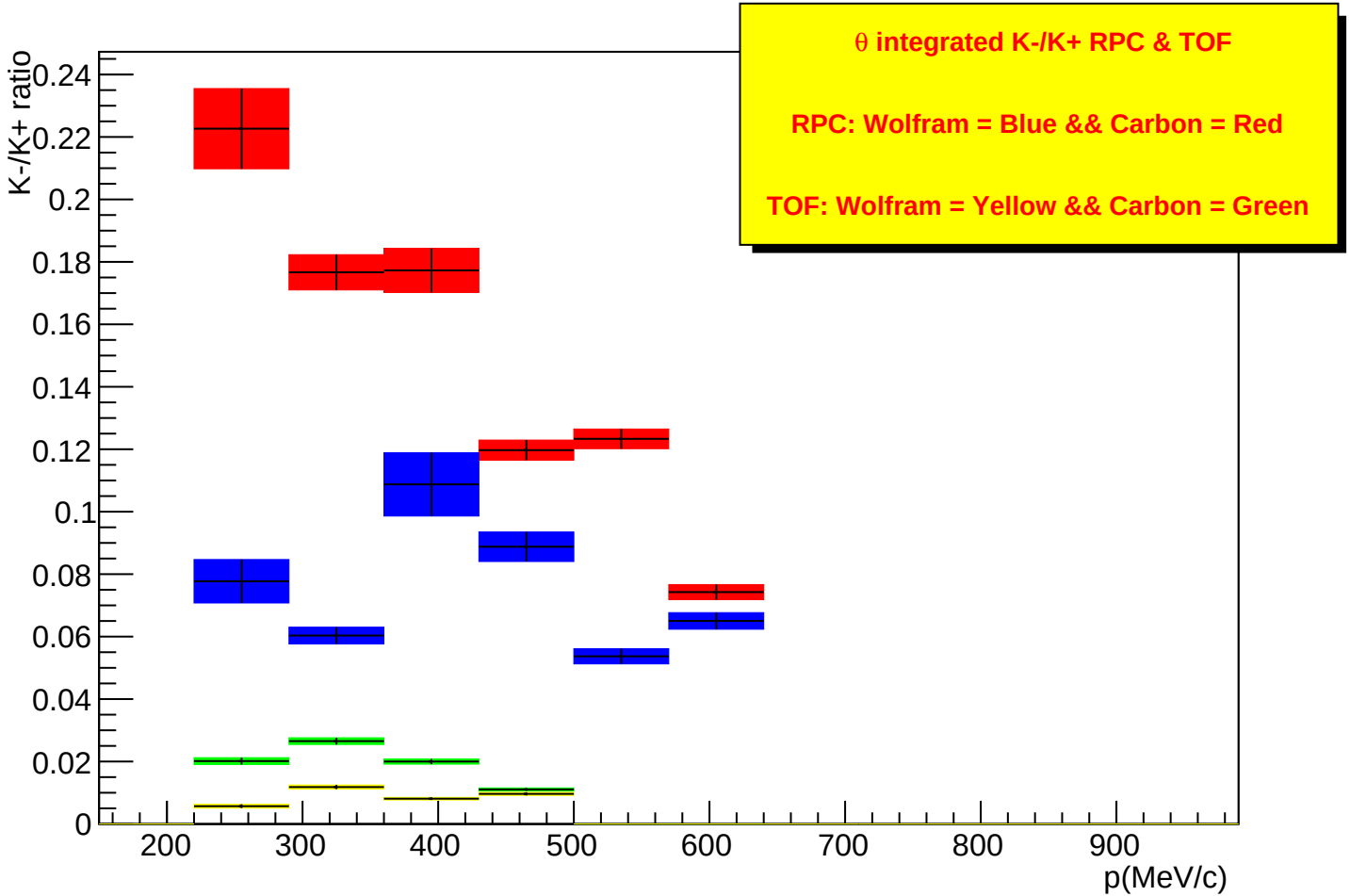

K-/K+ ratios in TOF for 15.0 < θ < 27.5
Wolfram = Blue && Carbon = Red
K-/K+ ratios in TOF for 27.5 < θ < 40.0
Wolfram = Blue && Carbon = Red
K-/K+ ratios in TOF for 40.0 < θ < 52.5
Wolfram = Blue && Carbon = Red
K-/K+ ratios in TOF for 52.5 < θ < 65.0
Wolfram = Blue && Carbon = Red
K-/K+ ratios in TOF for 65.0 < θ < 77.5
Wolfram = Blue && Carbon = Red
K-/K+ ratios in TOF for 77.5 < θ < 90.0
Wolfram = Blue && Carbon = Red
K-/K+ ratio
p (MeV/c)

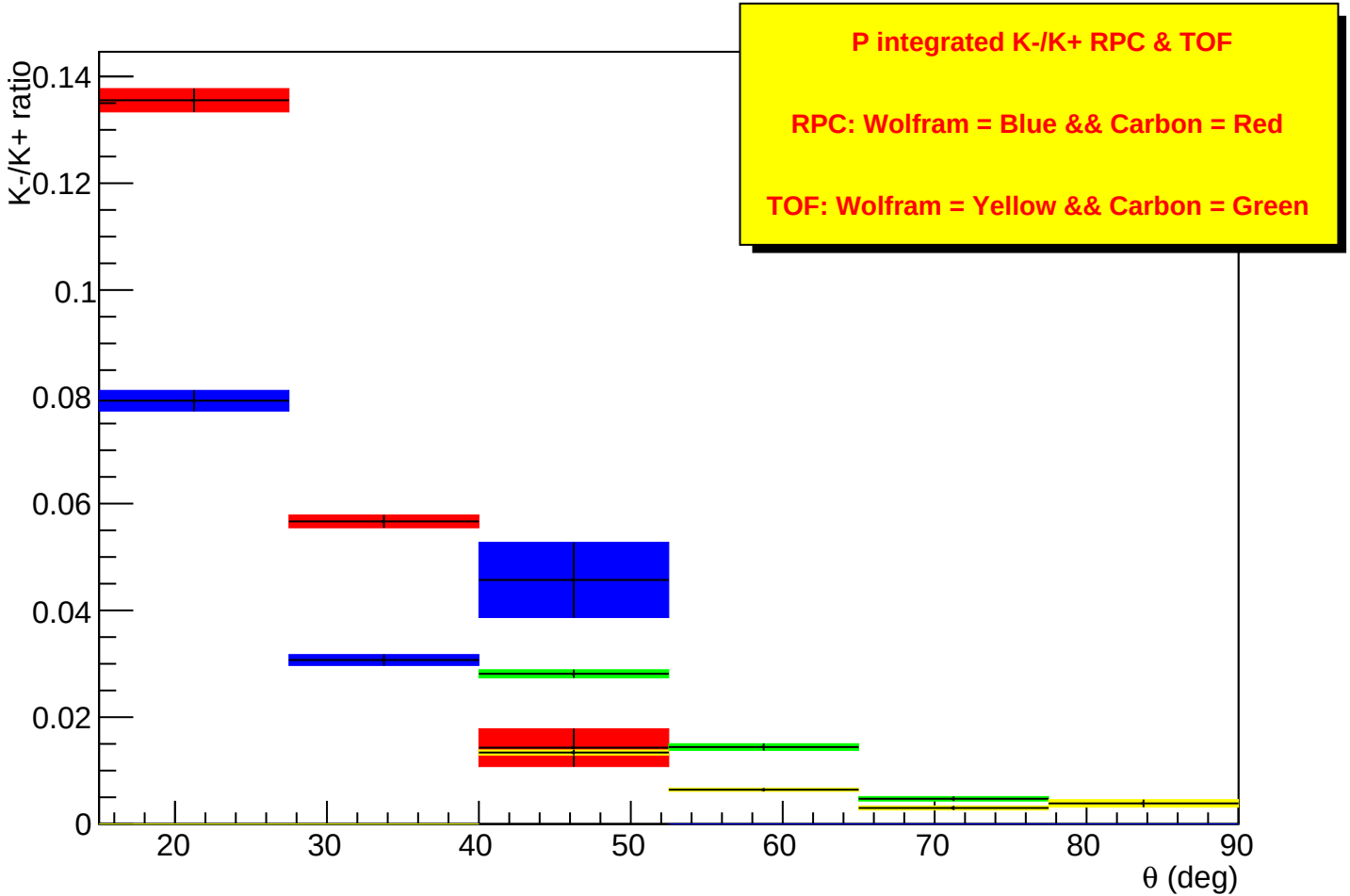

θ integrated K+ RPC & TOF
RPC: Wolfram = Blue && Carbon = Red
TOF: Wolfram = Yellow && Carbon = Green
K+ num
0
50
100
150
200
250
300
350
400
200
300
400
500
600
700
800
900
p (MeV/c)

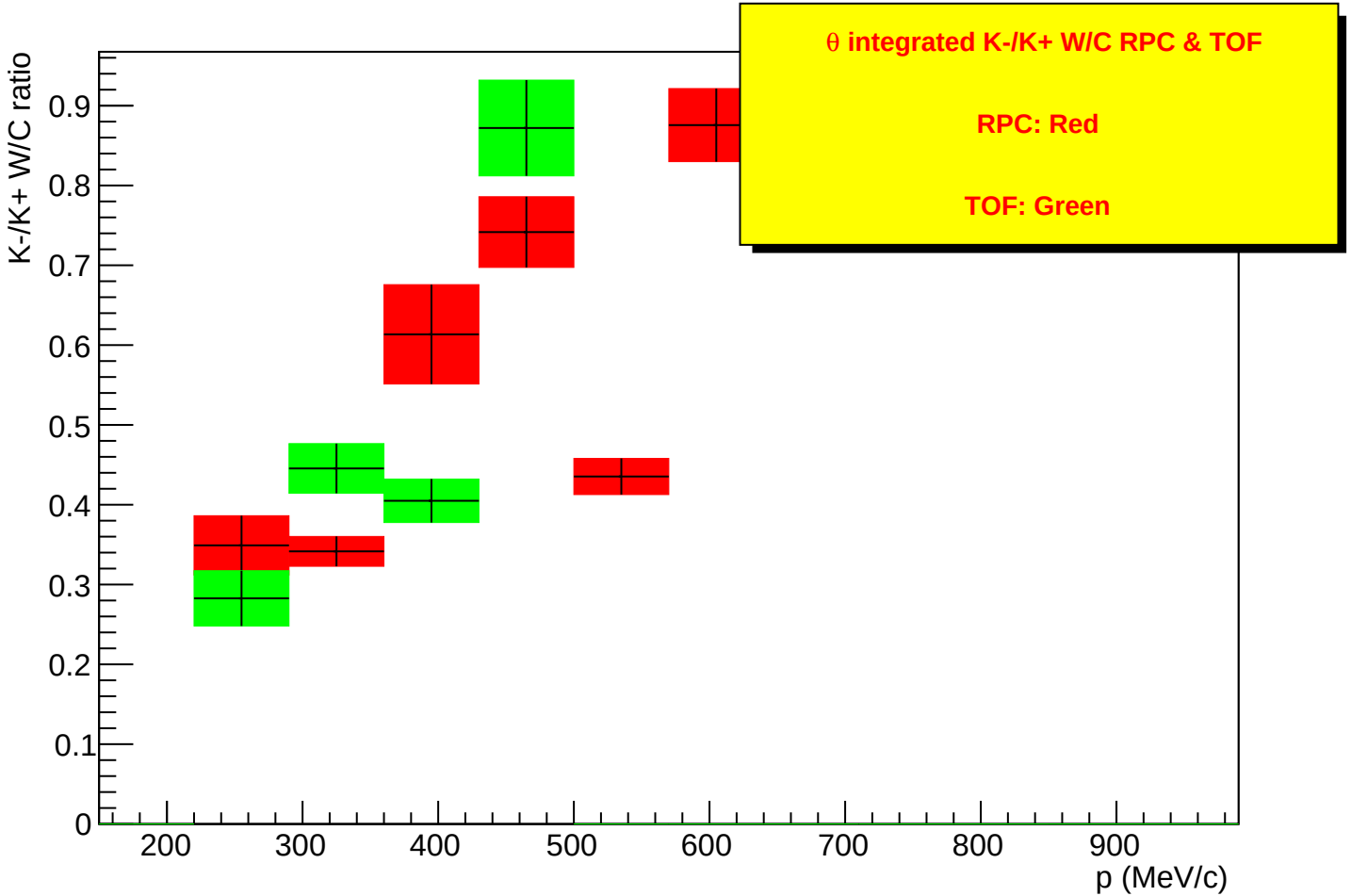

θ integrated K- RPC & TOF
RPC: Wolfram = Blue && Carbon = Red
TOF: Wolfram = Yellow && Carbon = Green
Knum
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
200
300
400
500
600
700
800
900
p (MeV/c)

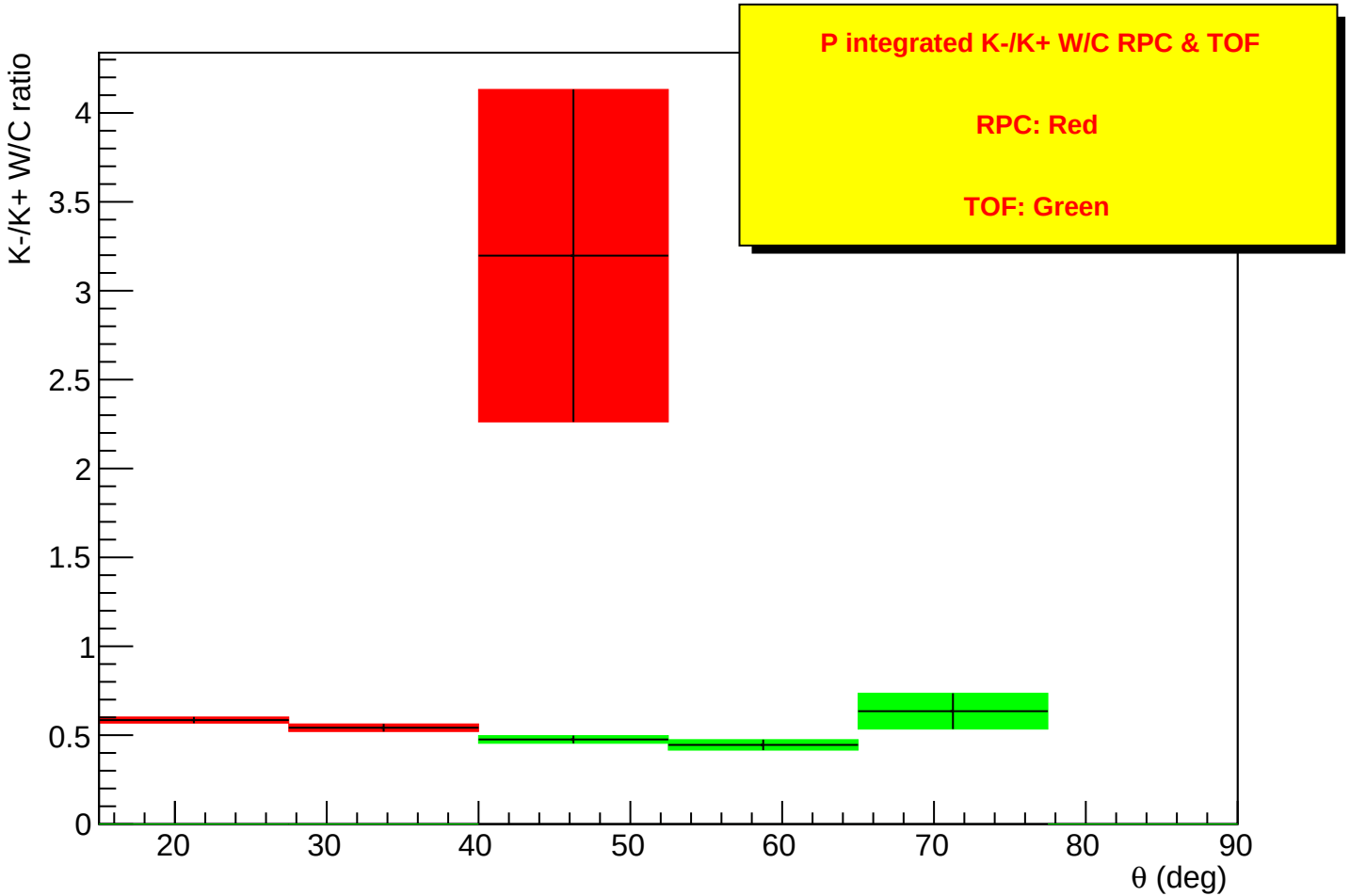

P integrated K+ RPC & TOF
RPC: Wolfram = Blue && Carbon = Red
TOF: Wolfram = Yellow && Carbon = Green
×10^3
K+ num
1000
800
600
400
200
0
20
30
40
50
60
70
80
90
θ (deg)


P integrated K- RPC & TOF
RPC: Wolfram = Blue && Carbon = Red
TOF: Wolfram = Yellow && Carbon = Green
×10^3
K- num
0
20
40
60
80
100
120
140
20
30
40
50
60
70
80
90
θ (deg)


θ integrated K-/K+ RPC & TOF
RPC: Wolfram = Blue && Carbon = Red
TOF: Wolfram = Yellow && Carbon = Green
K-/K+ ratio
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
200
300
400
500
600
700
800
900
p(MeV/c)


P integrated K-/K+ RPC & TOF
RPC: Wolfram = Blue && Carbon = Red
TOF: Wolfram = Yellow && Carbon = Green
K-/K+ ratio
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
20
30
40
50
60
70
80
90
θ (deg)


θ integrated K-/K+ W/C RPC & TOF
RPC: Red
TOF: Green
K-/K+ W/C ratio
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
200
300
400
500
600
700
800
900
p (MeV/c)


P integrated K-/K+ W/C RPC & TOF
RPC: Red
TOF: Green
K-/K+ W/C ratio
0
0.5
1
1.5
2
2.5
3
3.5
4
20
30
40
50
60
70
80
90
θ (deg)