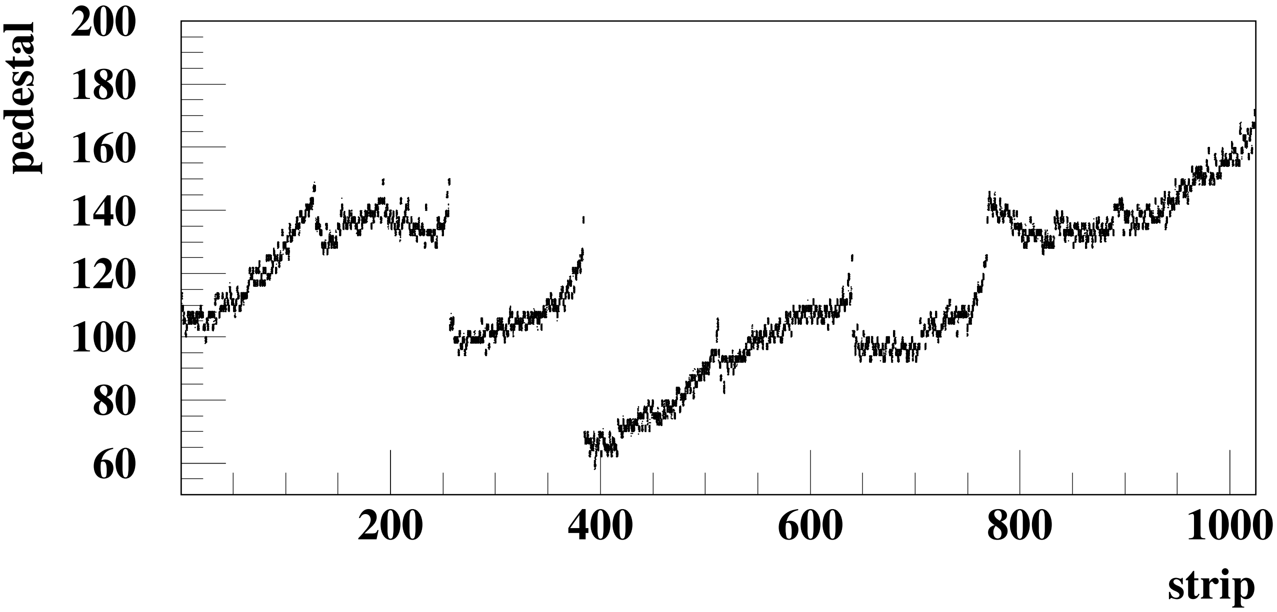
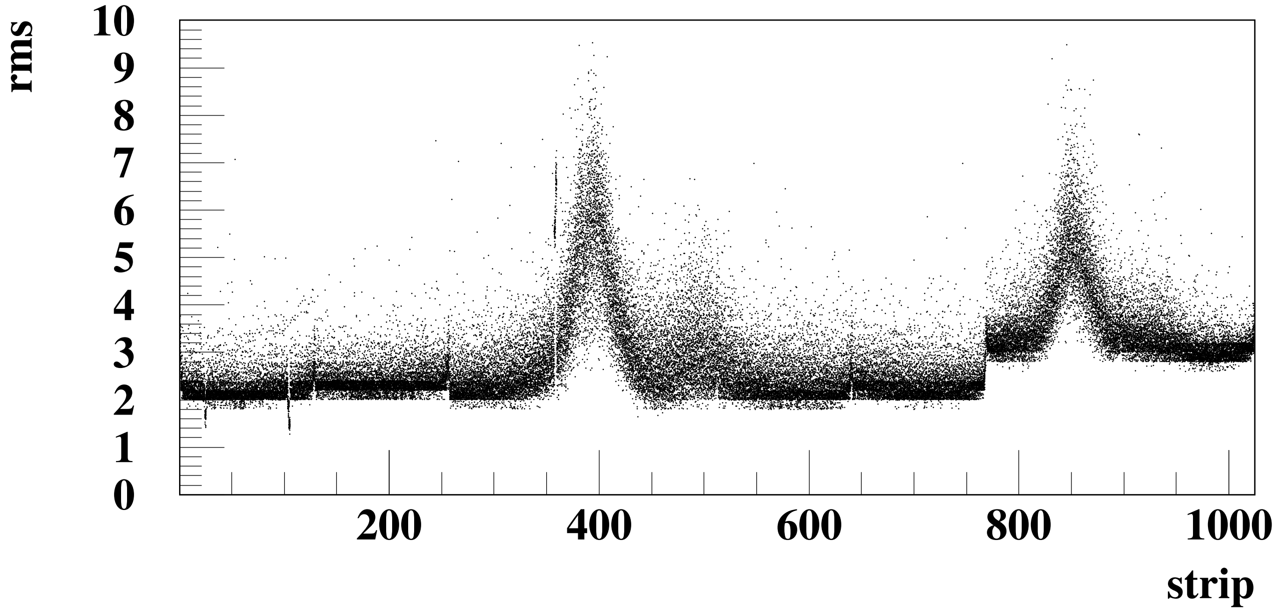
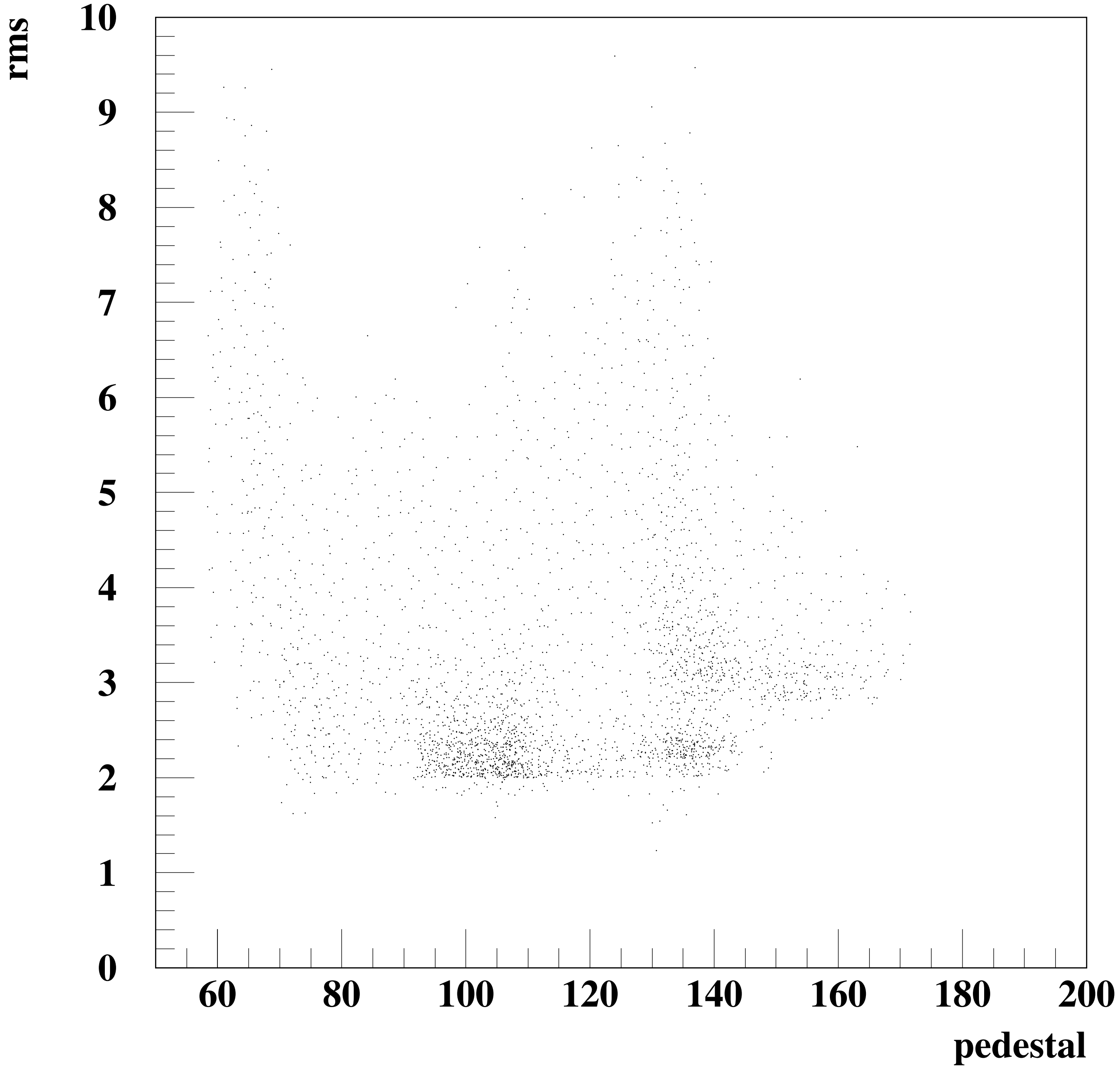
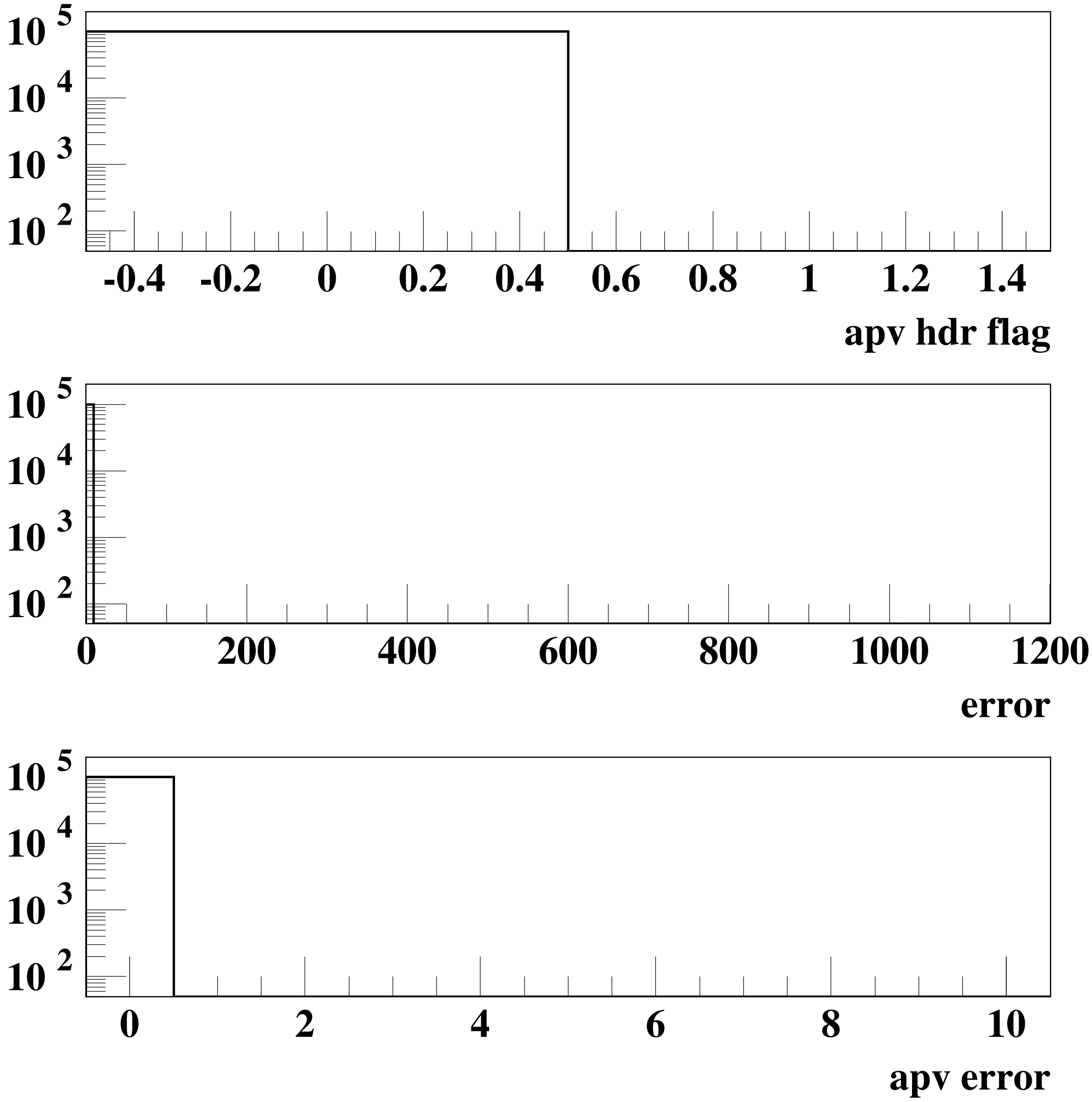

pedestal
200
180
160
140
120
100
80
60
200
400
600
800
1000
strip

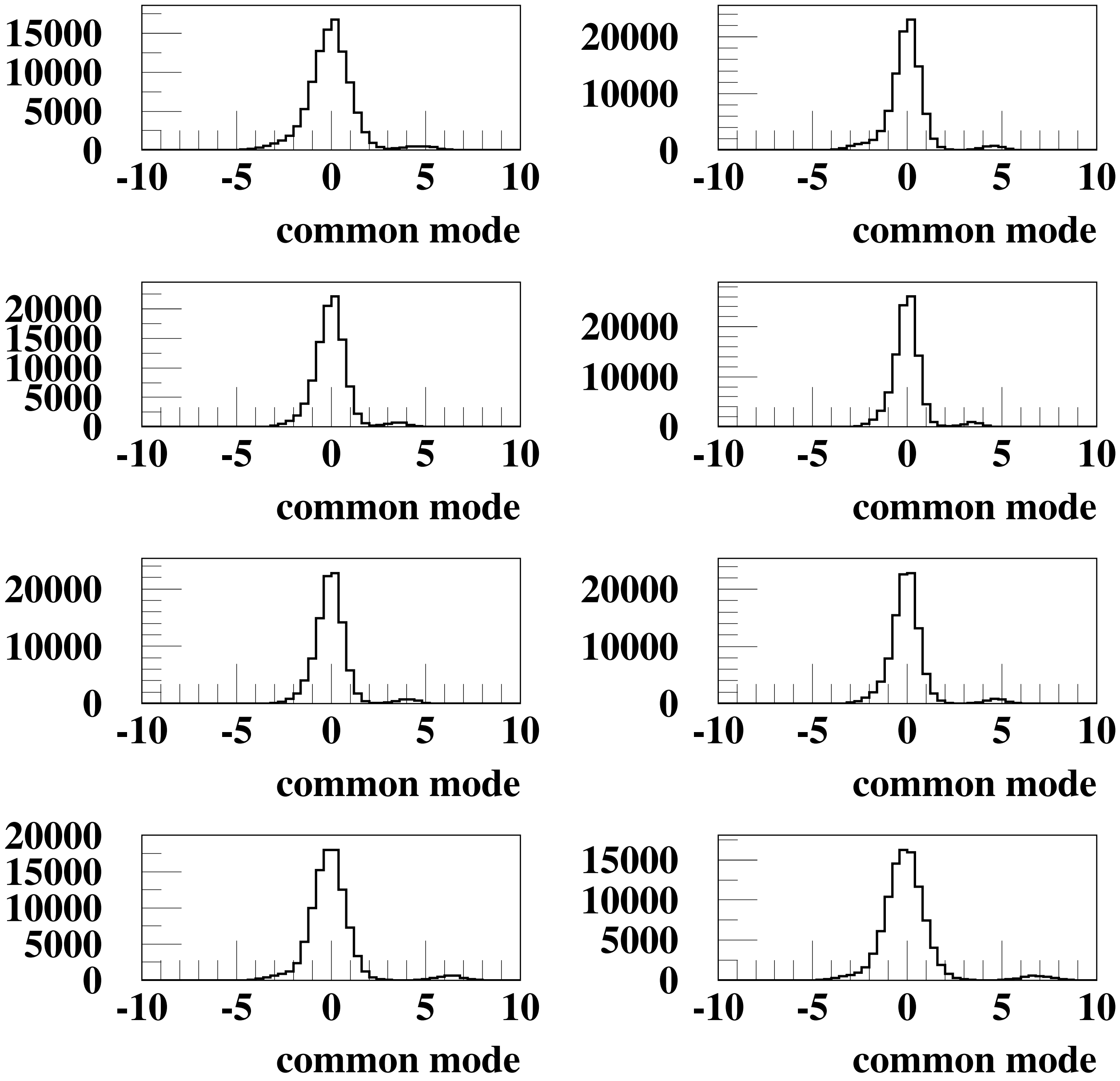

rms
10
9
8
7
6
5
4
3
2
1
0
200
400
600
800
1000
strip

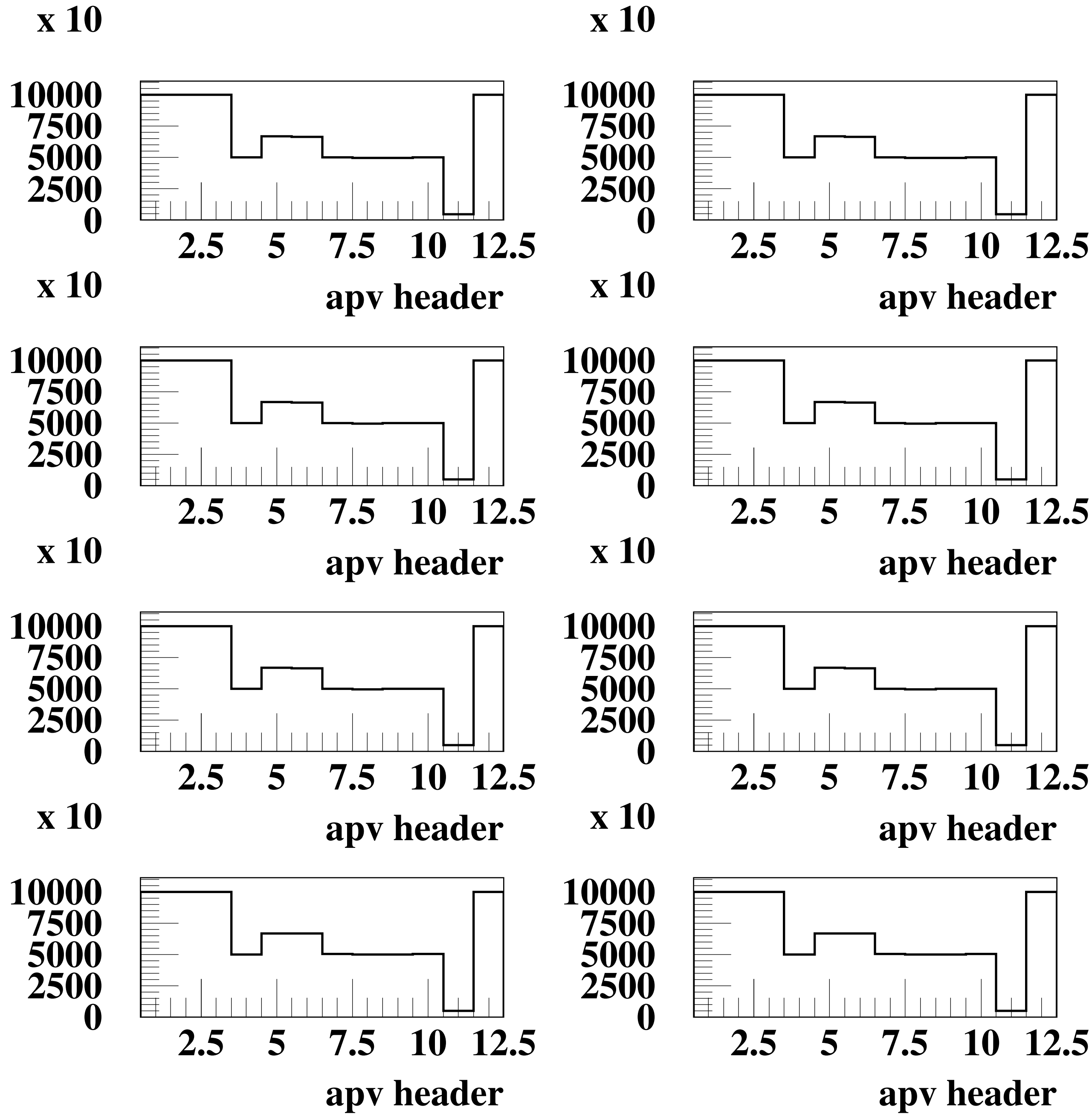


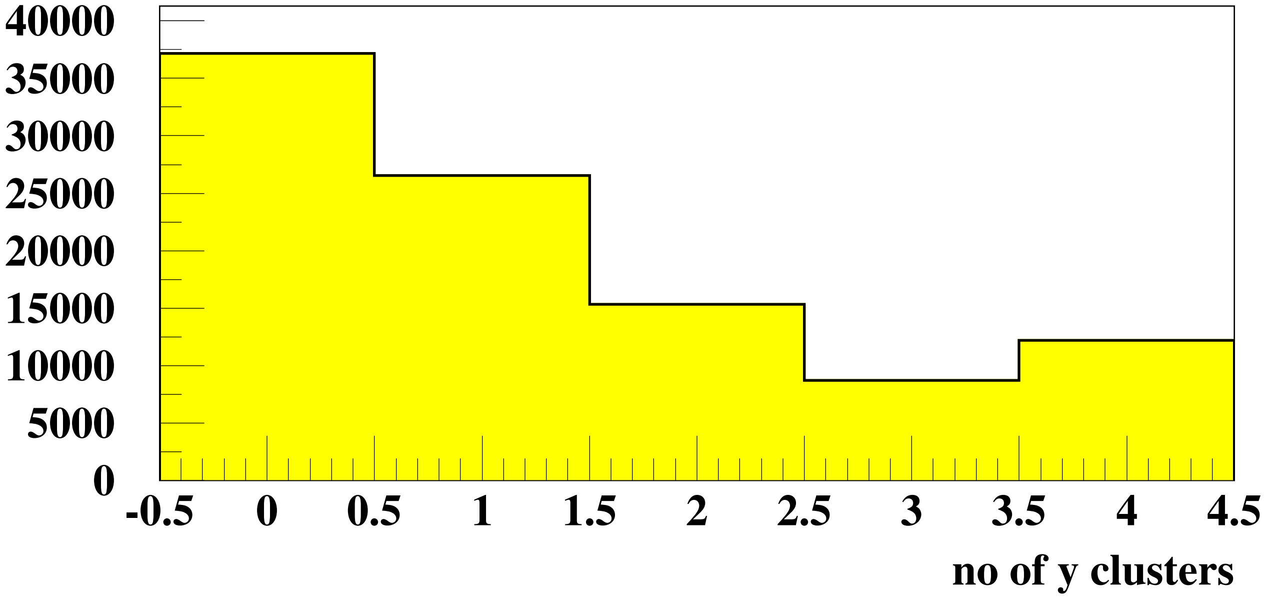
rms
10
9
8
7
6
5
4
3
2
1
0
60
80
100
120
140
160
180
200
pedestal

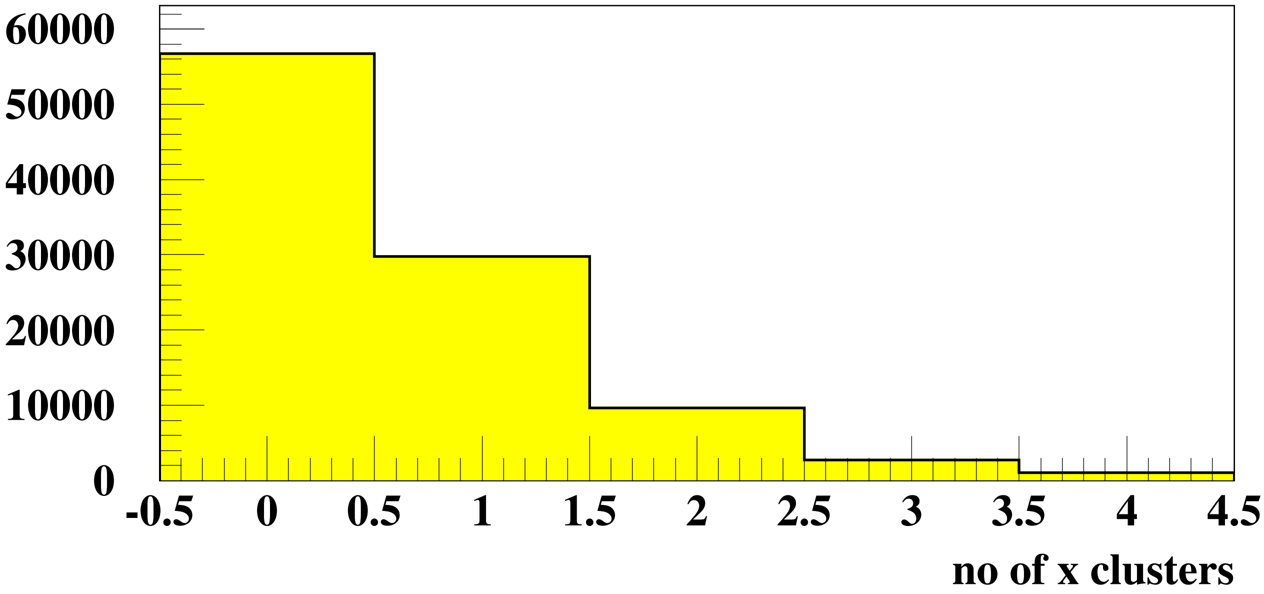


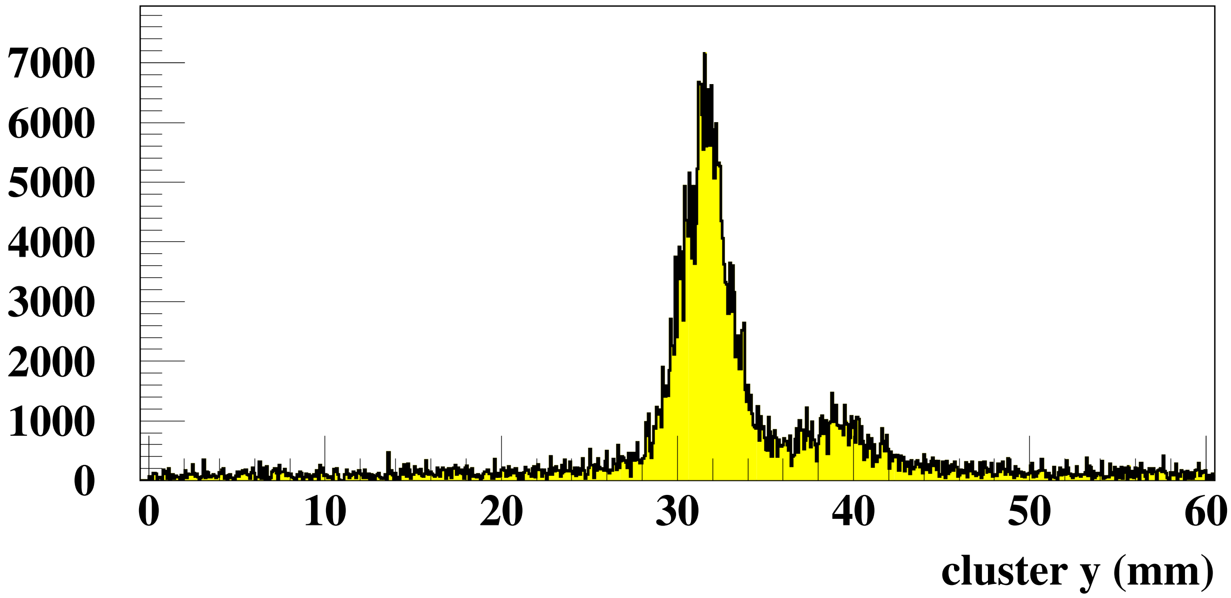
10 5
10 4
10 3
10 2
-0.4 -0.2 0 0.2 0.4 0.6 0.8 1 1.2 1.4
apv hdr flag
10 5
10 4
10 3
10 2
0 200 400 600 800 1000 1200
error
10 5
10 4
10 3
10 2
0 2 4 6 8 10
apv error


15000
10000
5000
0
-10 -5 0 5 10
common mode
20000
10000
0
-10 -5 0 5 10
common mode
20000
15000
10000
5000
0
-10 -5 0 5 10
common mode
20000
10000
0
-10 -5 0 5 10
common mode
20000
10000
0
-10 -5 0 5 10
common mode
20000
10000
0
-10 -5 0 5 10
common mode
20000
15000
10000
5000
0
-10 -5 0 5 10
common mode
15000
10000
5000
0
-10 -5 0 5 10
common mode

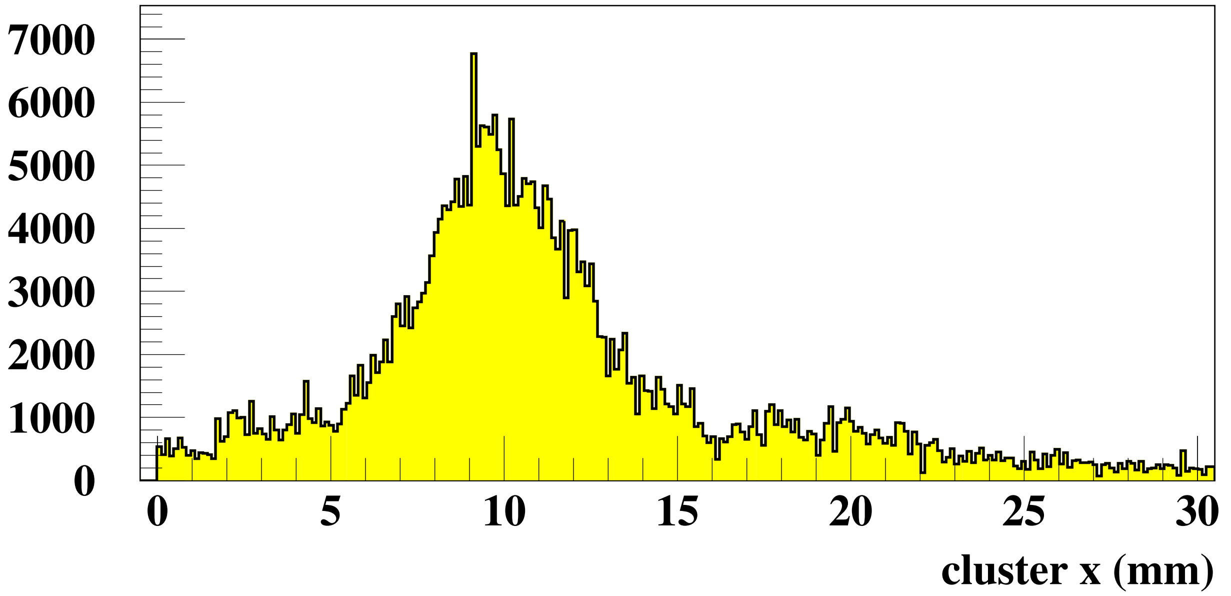

x 10
10000
7500
5000
2500
0
2.5
5
7.5
10
12.5
apv header
x 10
10000
7500
5000
2500
0
2.5
5
7.5
10
12.5
apv header
x 10
10000
7500
5000
2500
0
2.5
5
7.5
10
12.5
apv header
x 10
10000
7500
5000
2500
0
2.5
5
7.5
10
12.5
apv header
x 10
10000
7500
5000
2500
0
2.5
5
7.5
10
12.5
apv header
x 10
10000
7500
5000
2500
0
2.5
5
7.5
10
12.5
apv header
x 10
10000
7500
5000
2500
0
2.5
5
7.5
10
12.5
apv header
x 10
10000
7500
5000
2500
0
2.5
5
7.5
10
12.5
apv header


40000
35000
30000
25000
20000
15000
10000
5000
0
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
no of y clusters

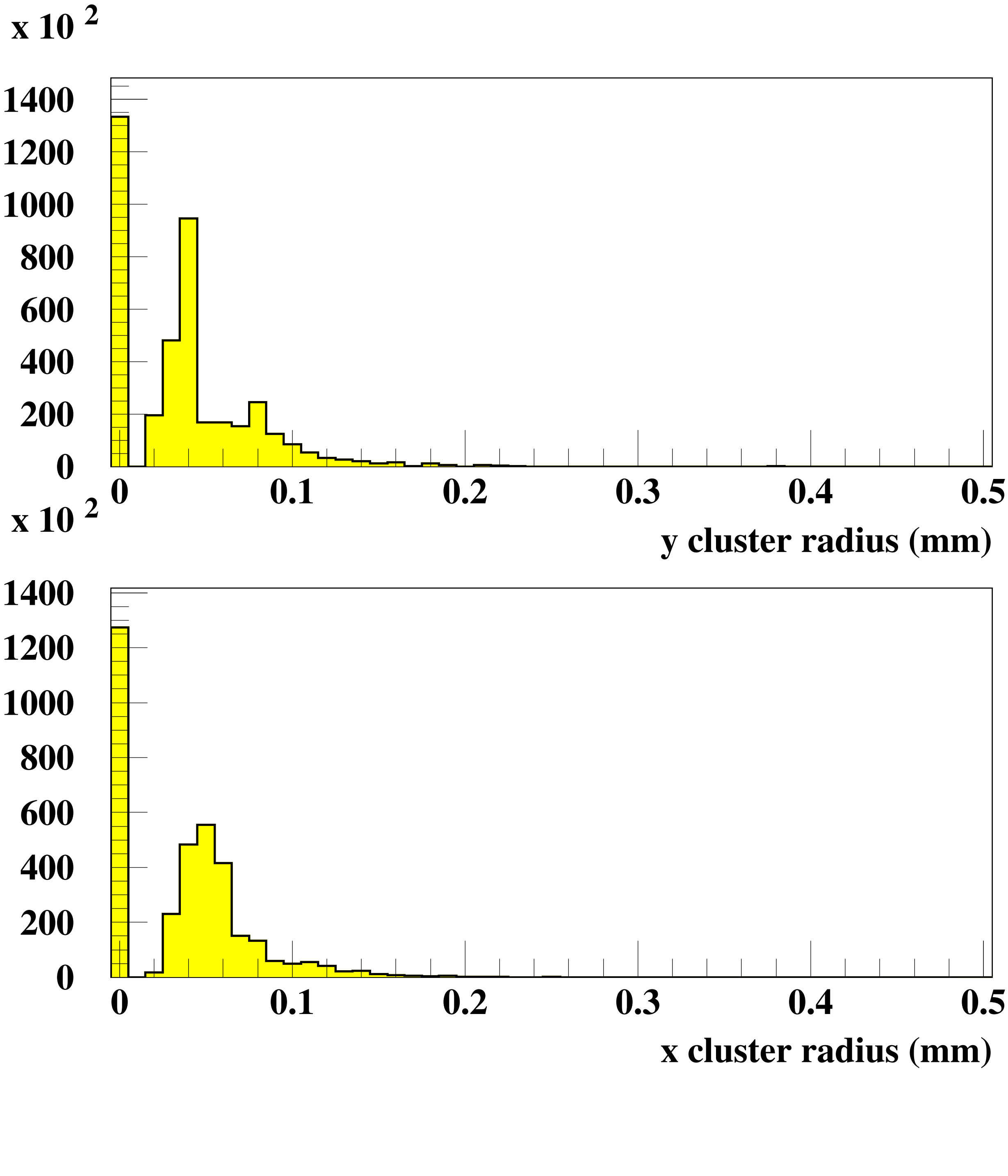

60000
50000
40000
30000
20000
10000
0
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
no of x clusters

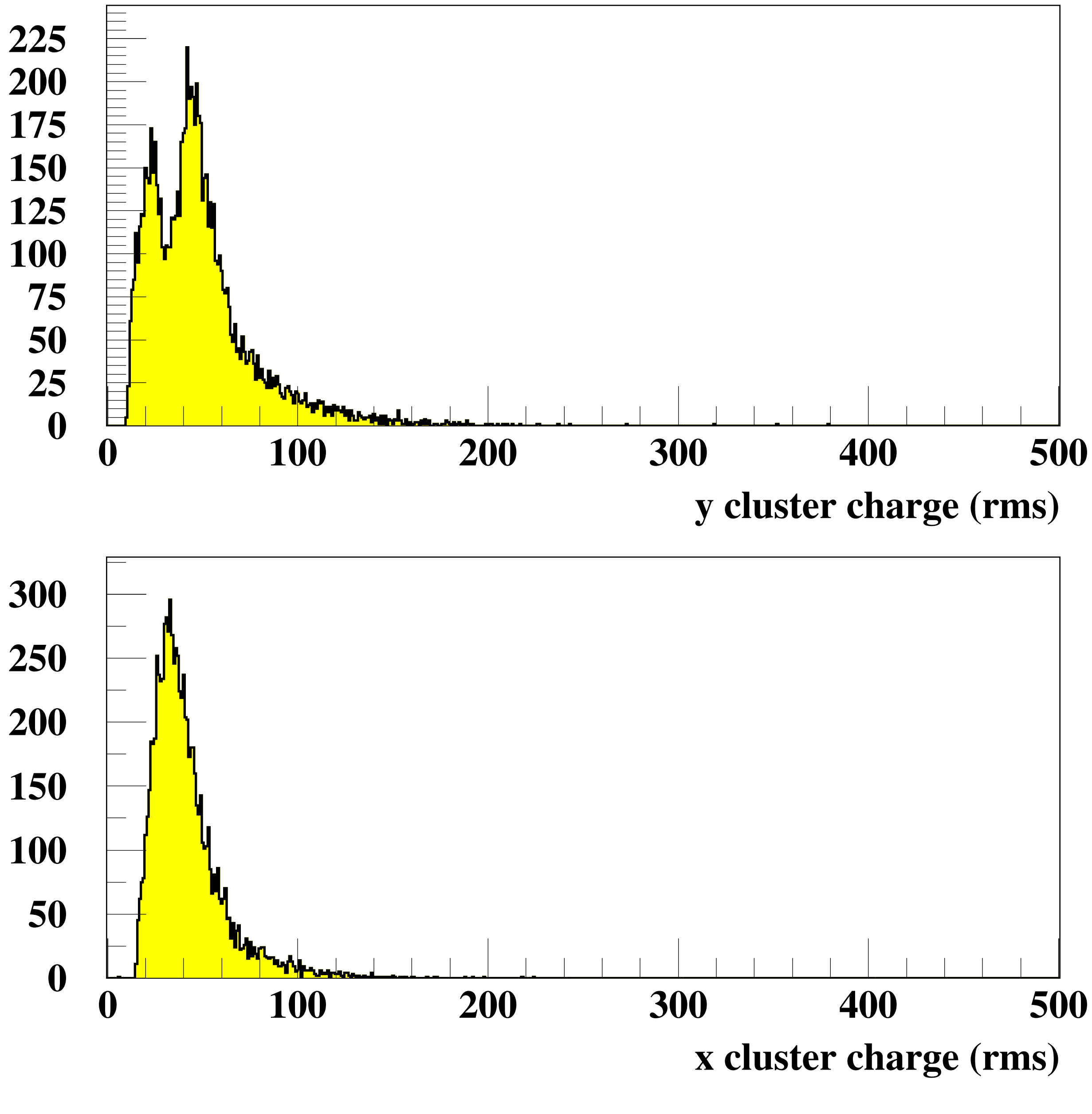


7000
6000
5000
4000
3000
2000
1000
0
0
10
20
30
40
50
60
cluster y (mm)

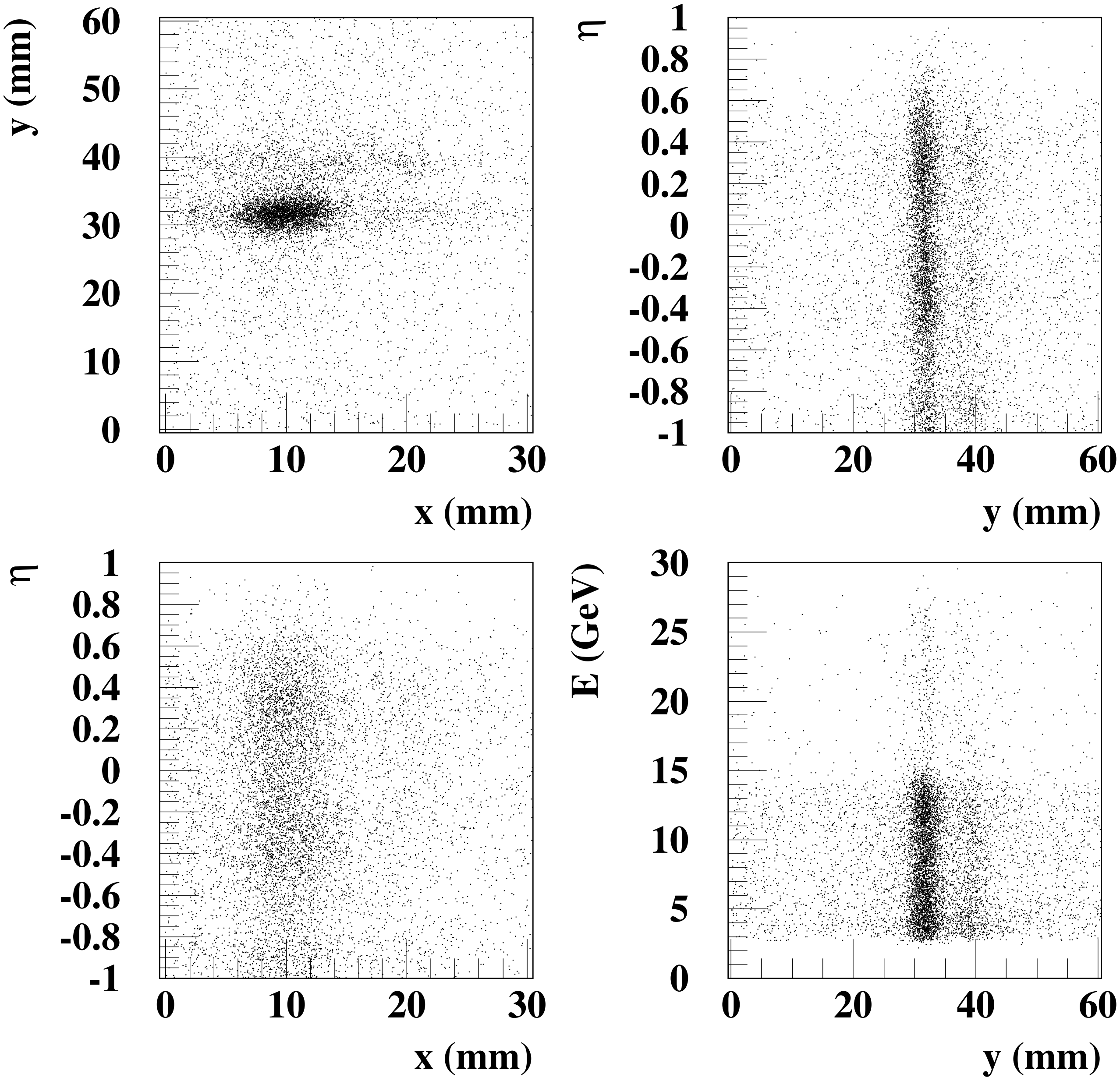


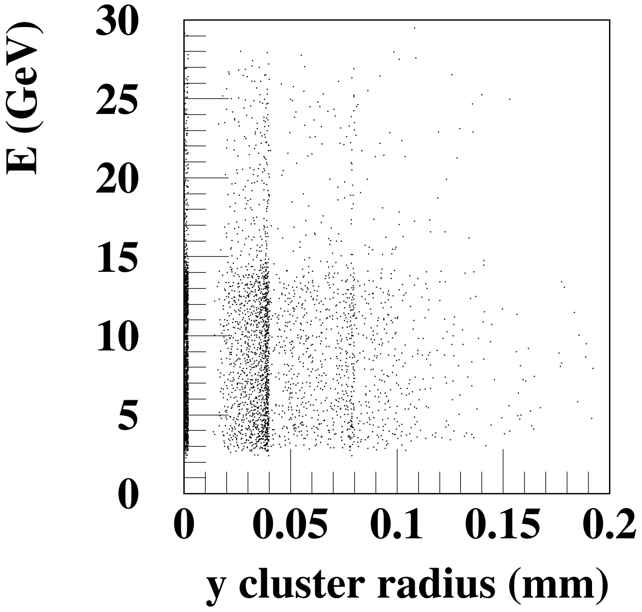
7000
6000
5000
4000
3000
2000
1000
0
0
5
10
15
20
25
30
cluster x (mm)


x 10 2
1400
1200
1000
800
600
400
200
0
0
0.1
0.2
0.3
0.4
0.5
y cluster radius (mm)
x 10 2
1400
1200
1000
800
600
400
200
0
0
0.1
0.2
0.3
0.4
0.5
x cluster radius (mm)

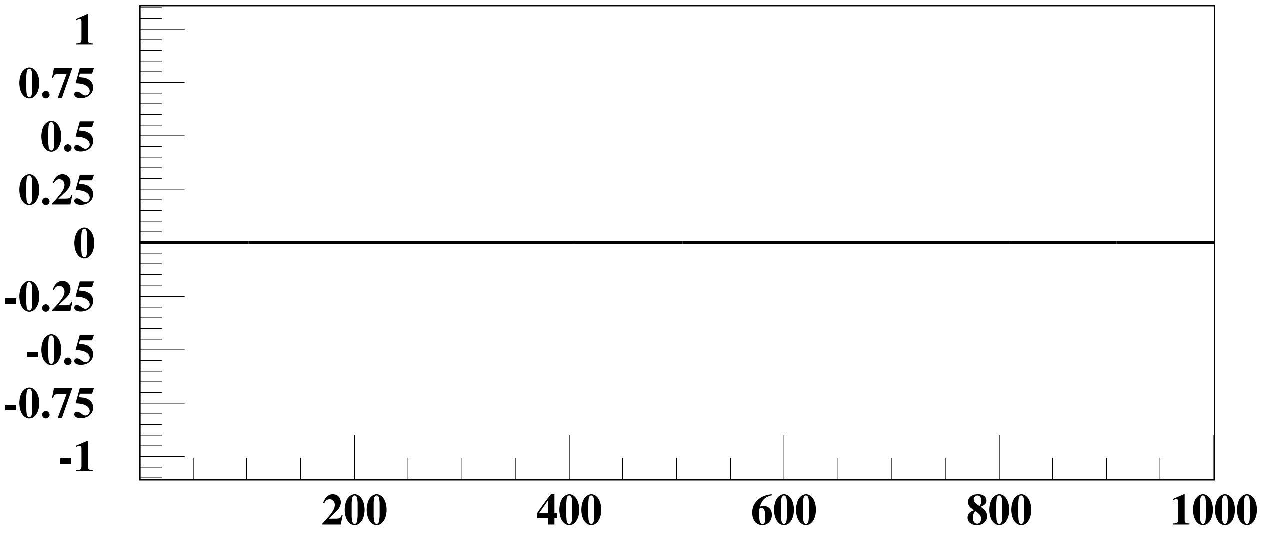


225
200
175
150
125
100
75
50
25
0
0
100
200
300
400
500
y cluster charge (rms)
300
250
200
150
100
50
0
0
100
200
300
400
500
x cluster charge (rms)


y (mm)
x (mm)
η
y (mm)
η
x (mm)
E (GeV)
y (mm)



E (GeV)
30
25
20
15
10
5
0
0
0.05
0.1
0.15
0.2
y cluster radius (mm)


1
0.75
0.5
0.25
0
-0.25
-0.5
-0.75
-1
200
400
600
800
1000