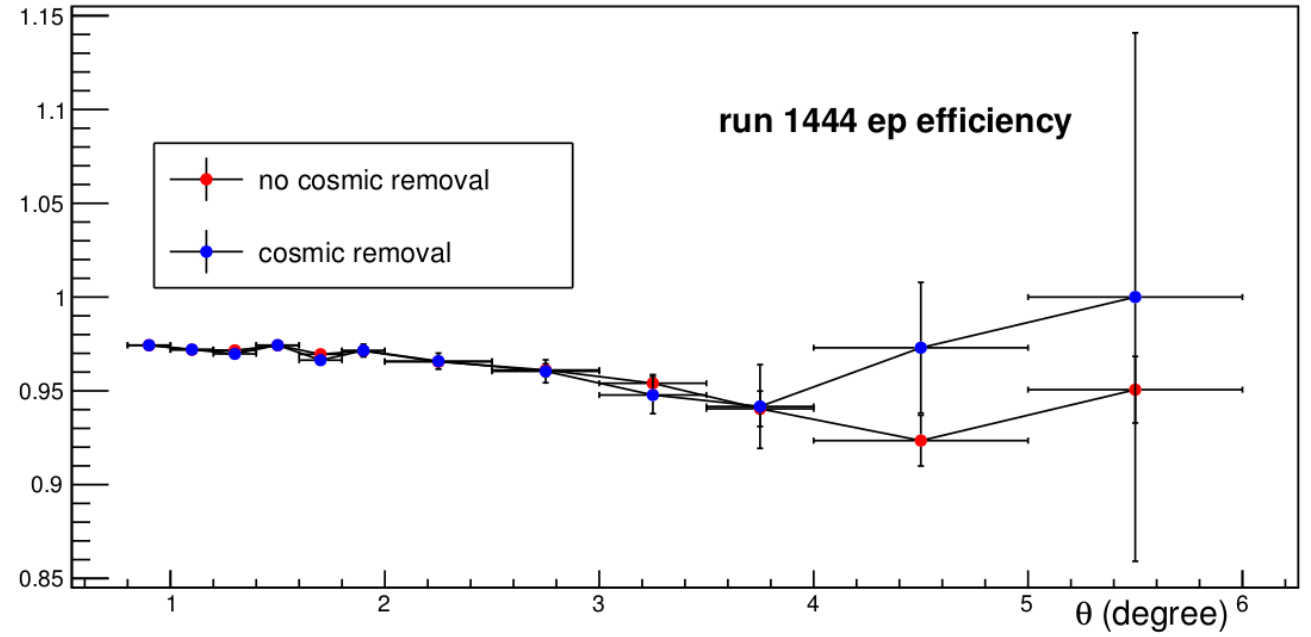
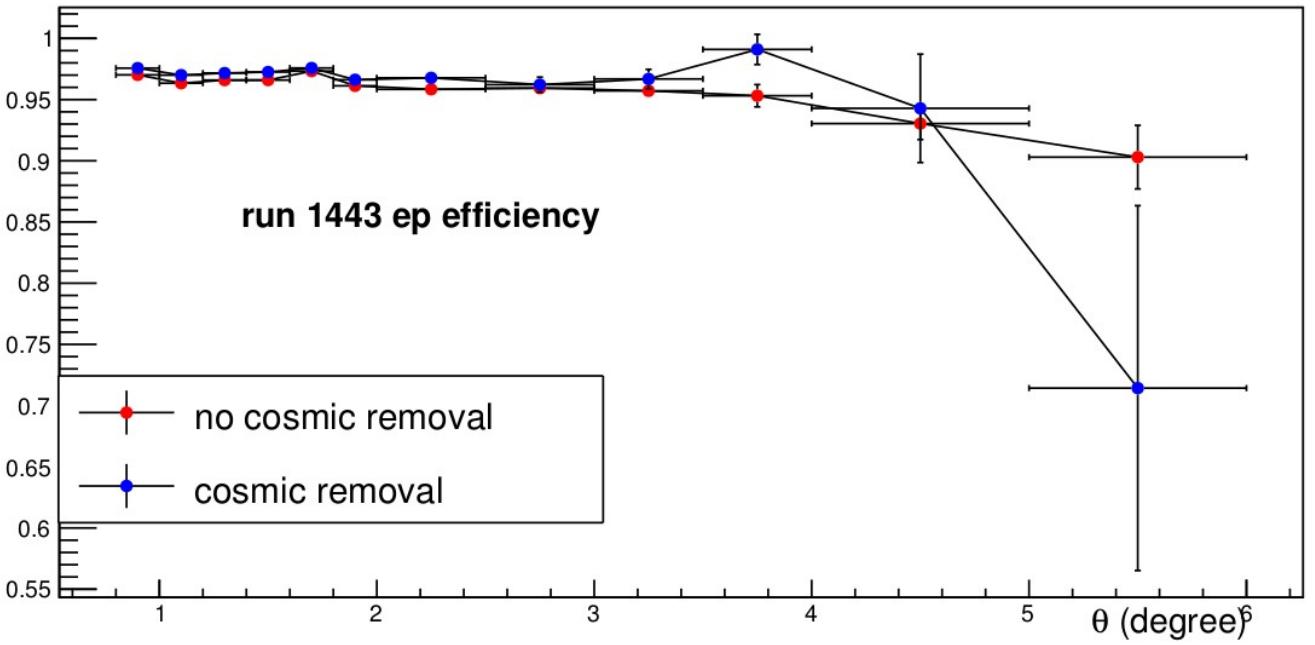
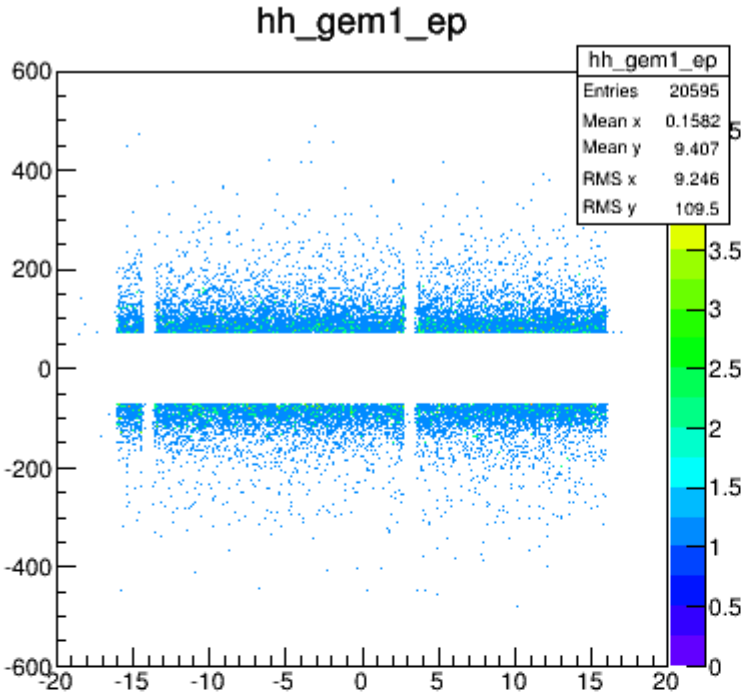
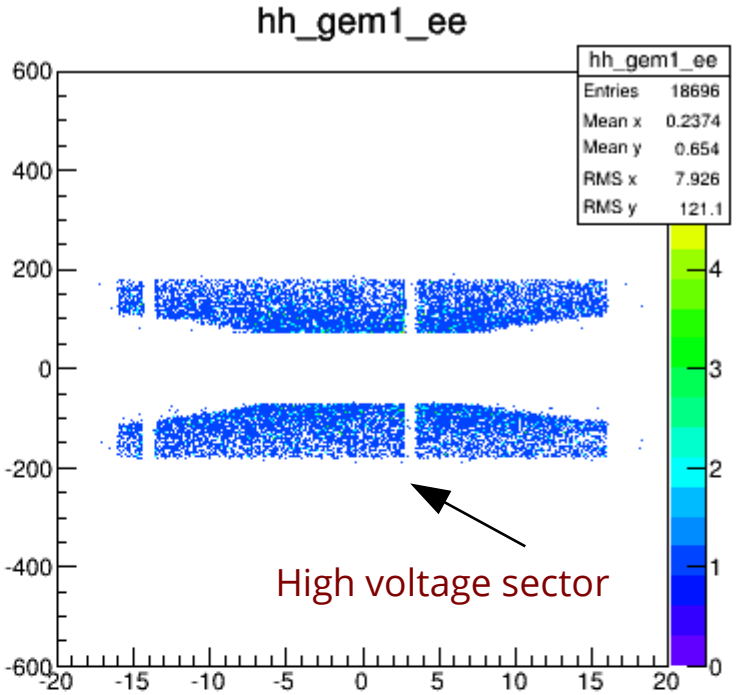
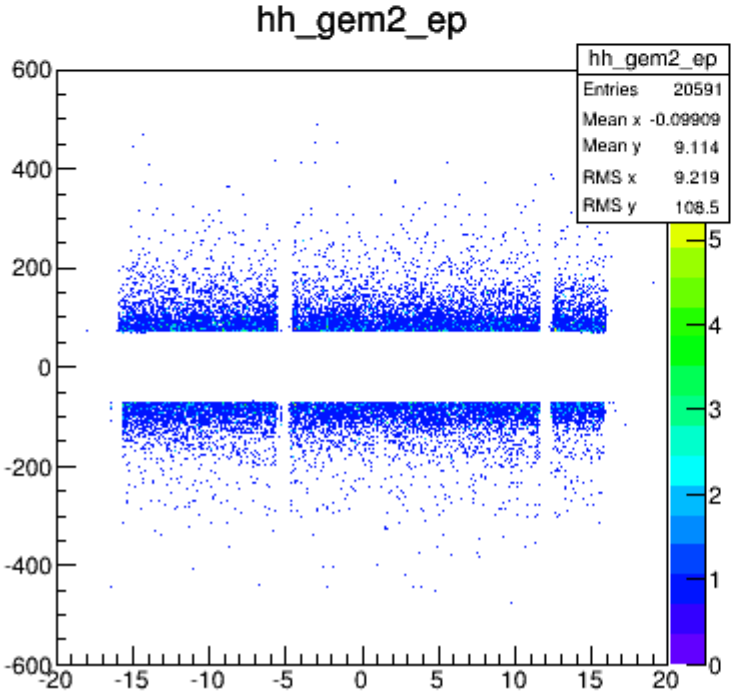
Cosmic removal

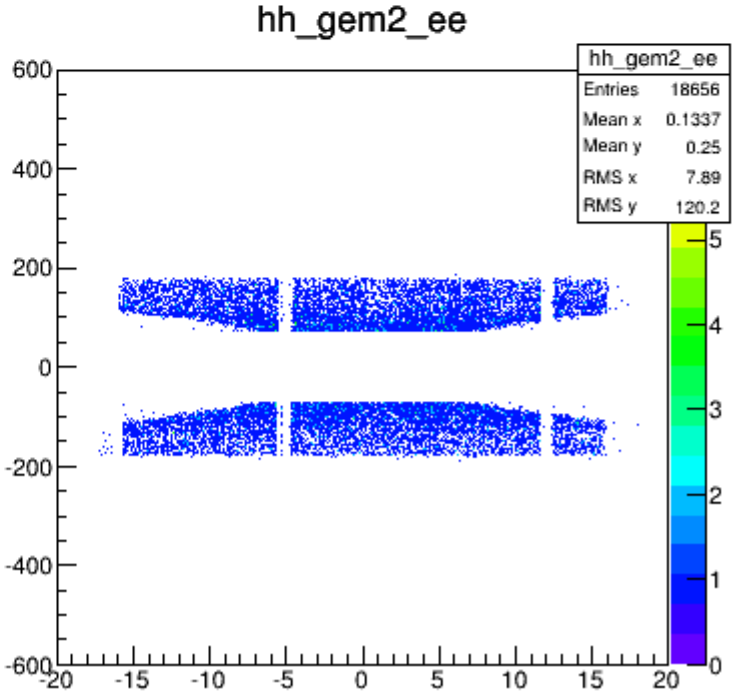


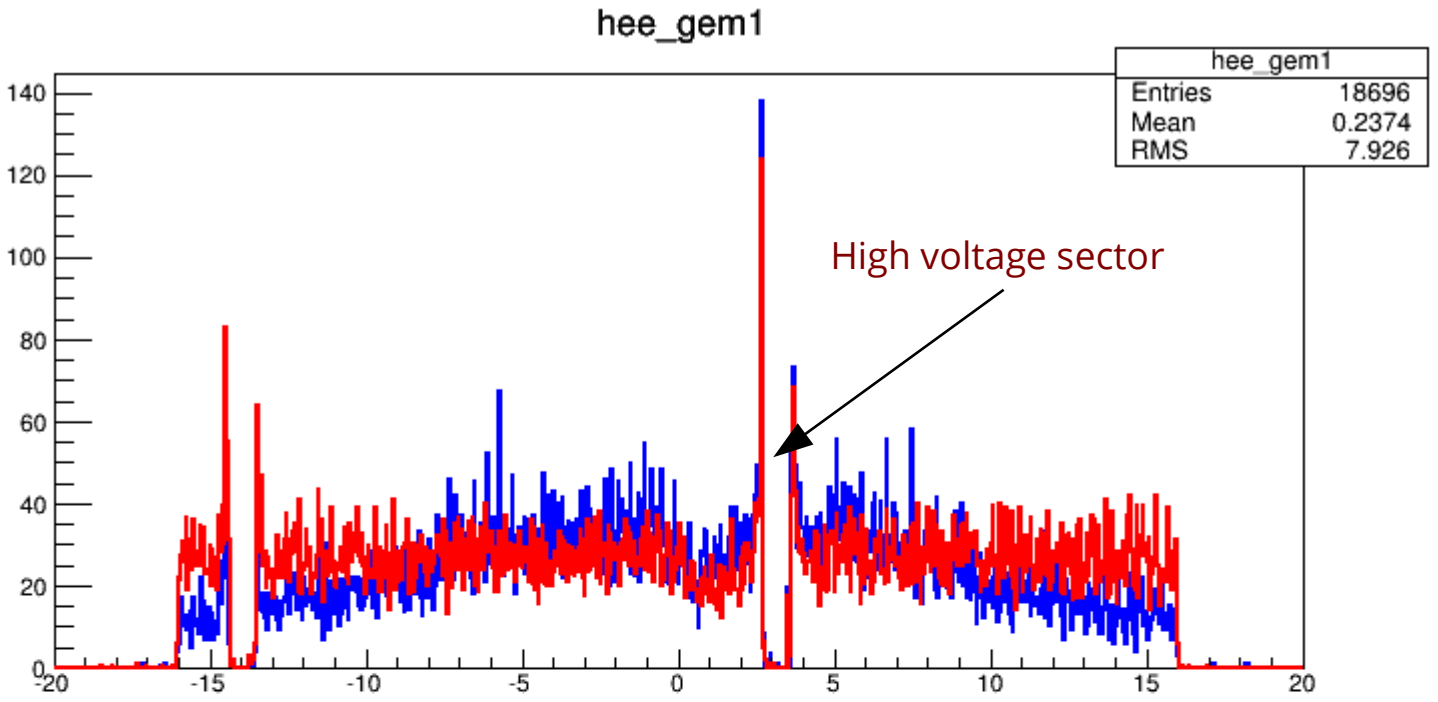


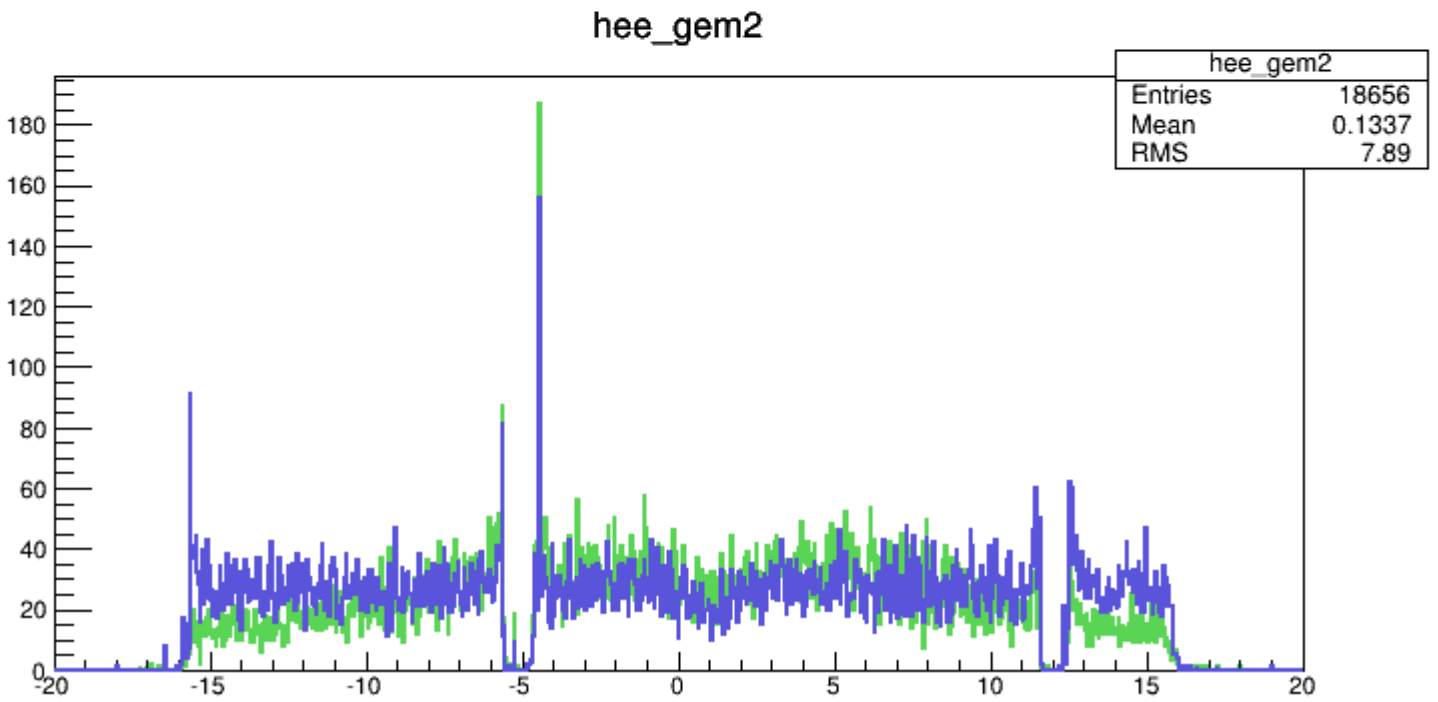

hh_gem1_ep
hh_gem1_ep
Entries 20595
Mean x 0.1582
Mean y 9.407
RMS x 9.246
RMS y 109.5

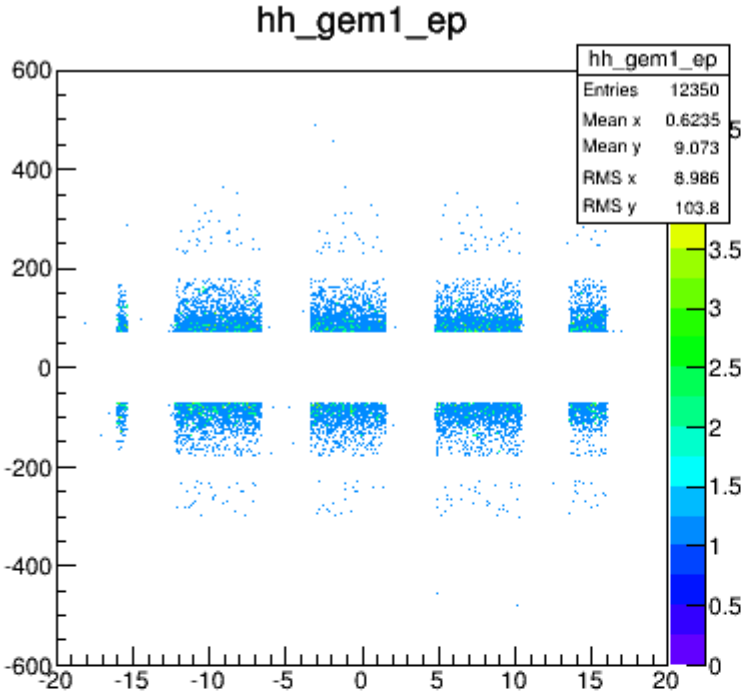

hh_gem1_ee
hh_gem1_ee
Entries 18696
Mean x 0.2374
Mean y 0.654
RMS x 7.926
RMS y 121.1
High voltage sector

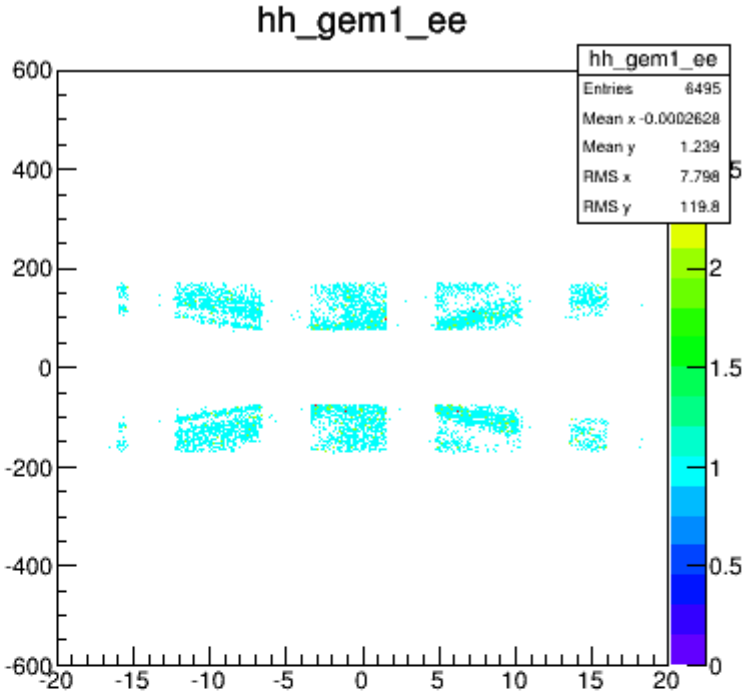

hh_gem2_ep
hh_gem2_ep
Entries 20591
Mean x -0.09909
Mean y 9.114
RMS x 9.219
RMS y 108.5

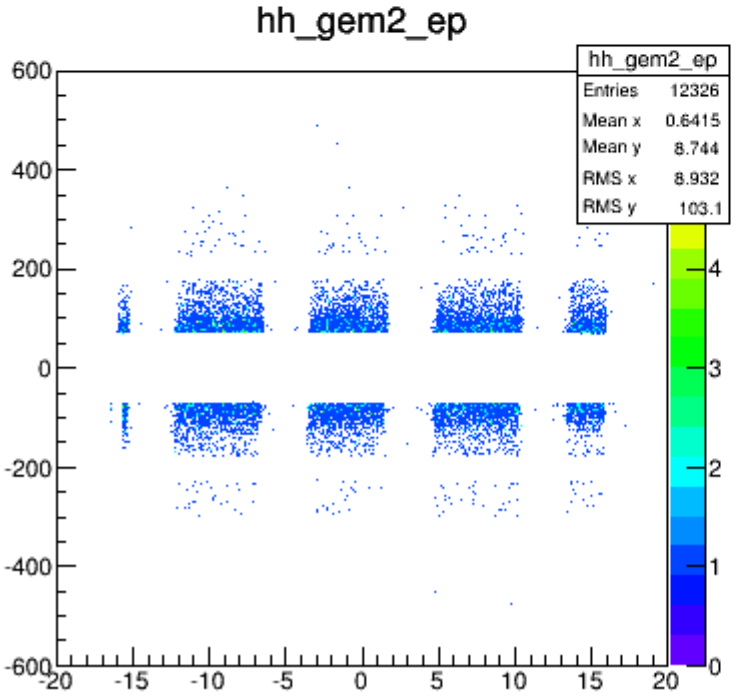

hh_gem2_ee
hh_gem2_ee
Entries 18656
Mean x 0.1337
Mean y 0.25
RMS x 7.89
RMS y 120.2

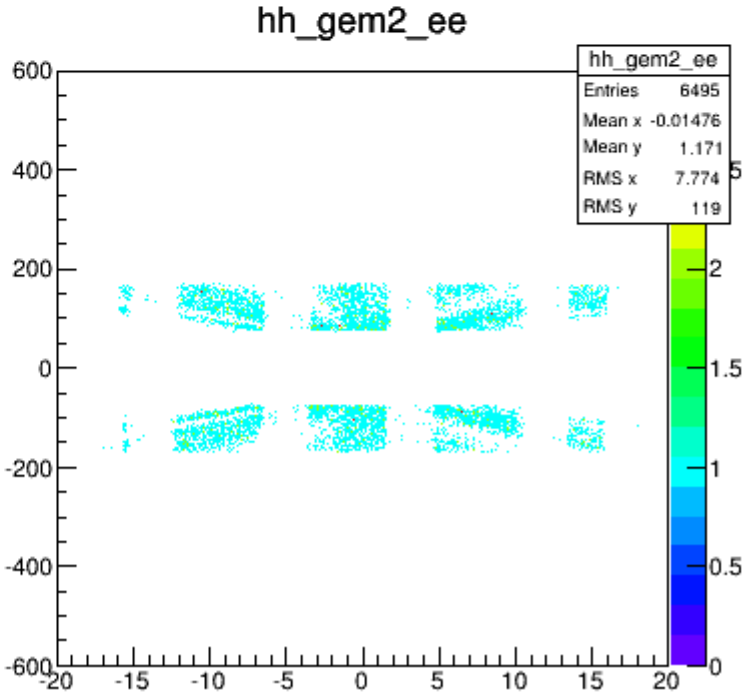

hee_gem1
hee_gem1
Entries 18696
Mean 0.2374
RMS 7.926
High voltage sector
140
120
100
80
60
40
20
0
-20
-15
-10
-5
0
5
10
15
20

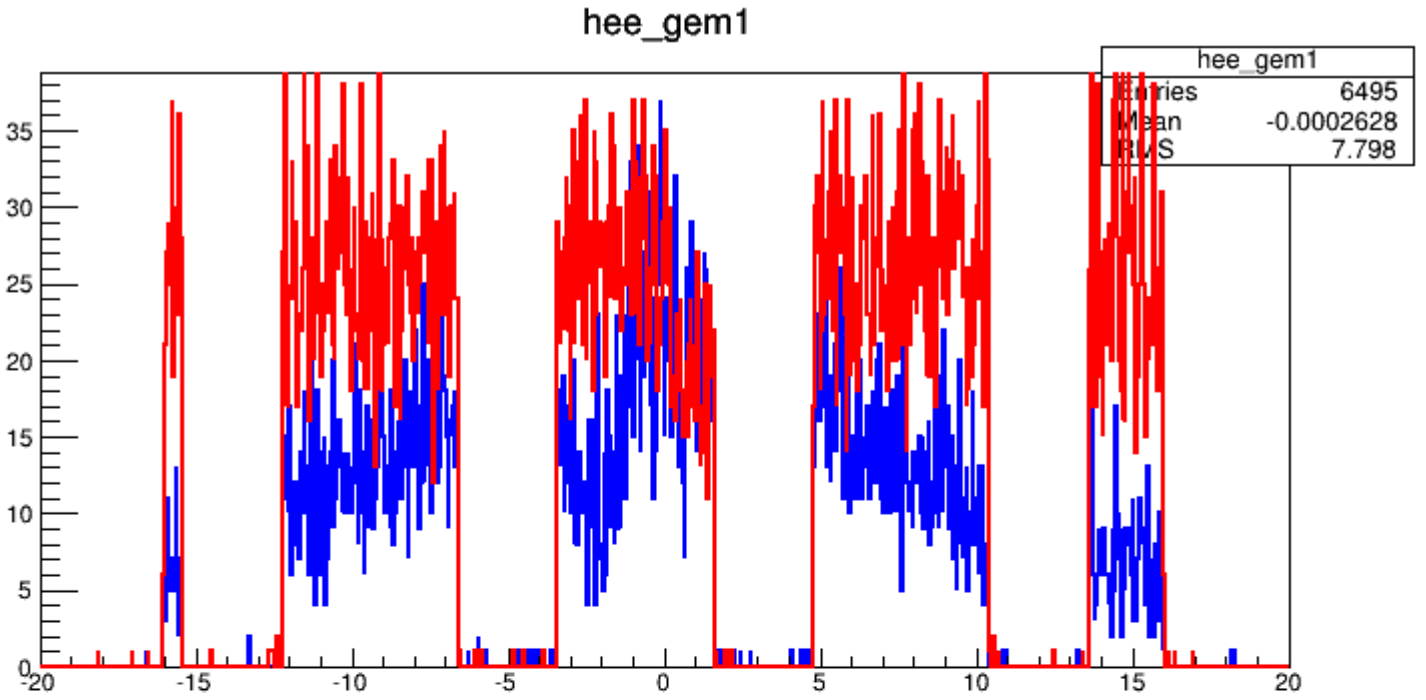

hee_gem2
hee_gem2
Entries 18656
Mean 0.1337
RMS 7.89
180
160
140
120
100
80
60
40
20
0
-20
-15
-10
-5
0
5
10
15
20

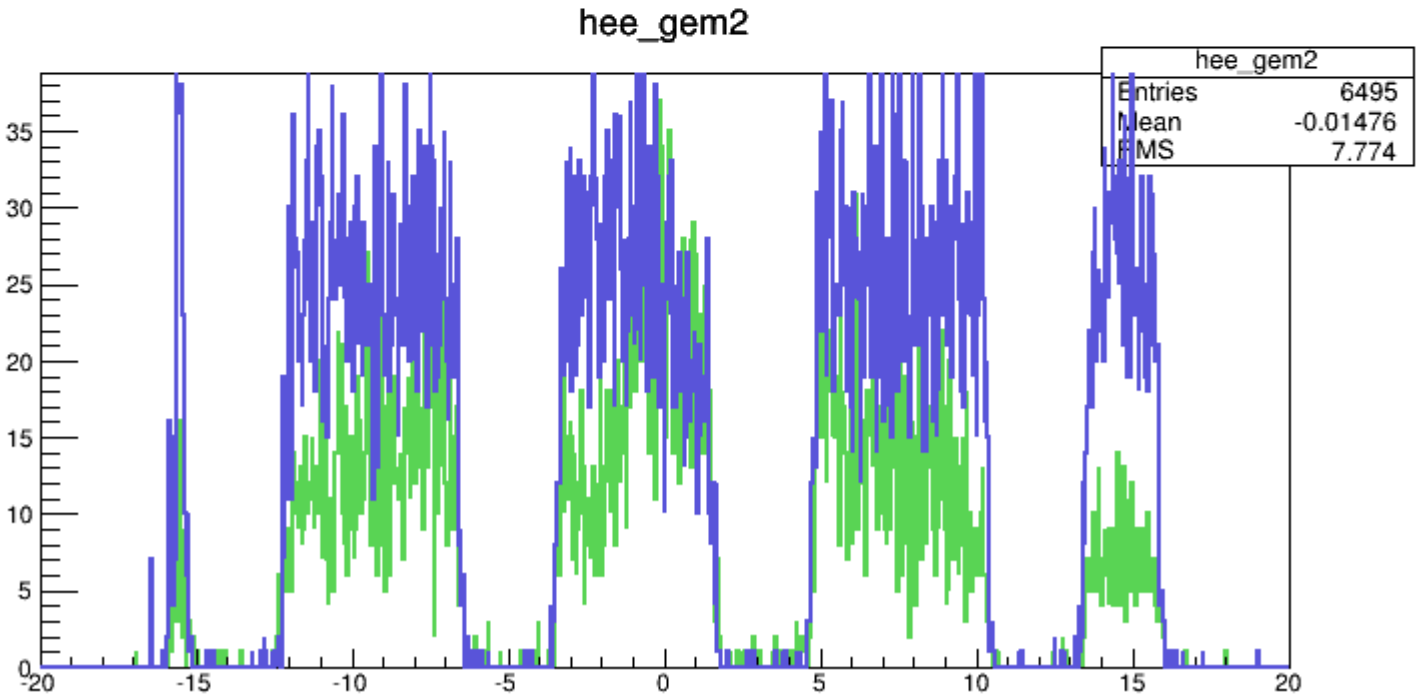

hh_gem1_ep
hh_gem1_ep
Entries 12350
Mean x 0.6235
Mean y 9.073
RMS x 8.986
RMS y 103.8


hh_gem1_ee
hh_gem1_ee
Entries 6495
Mean x -0.0002628
Mean y 1.239
RMS x 7.798
RMS y 119.8


hh_gem2_ep
hh_gem2_ep
Entries 12326
Mean x 0.6415
Mean y 8.744
RMS x 8.932
RMS y 103.1


hh_gem2_ee
hh_gem2_ee
Entries 6495
Mean x -0.01476
Mean y 1.171
RMS x 7.774
RMS y 119

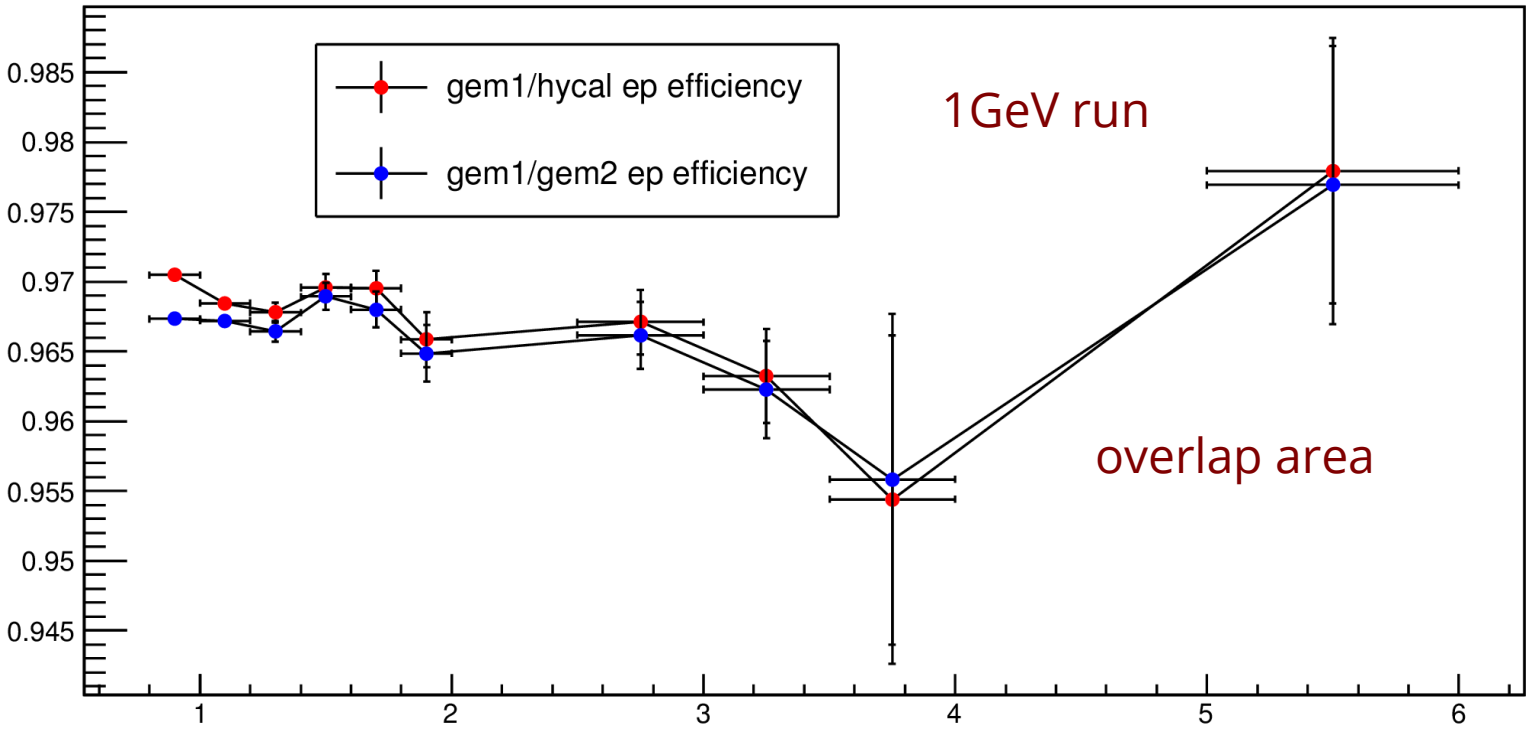

hee_gem1
hee_gem1
Entries 6495
Mean -0.0002628
RMS 7.798
35
30
25
20
15
10
5
0
-20
-15
-10
-5
0
5
10
15
20


hee_gem2
hee_gem2
Entries 6495
Mean -0.01476
RMS 7.774
35
30
25
20
15
10
5
0
-20
-15
-10
-5
0
5
10
15
20

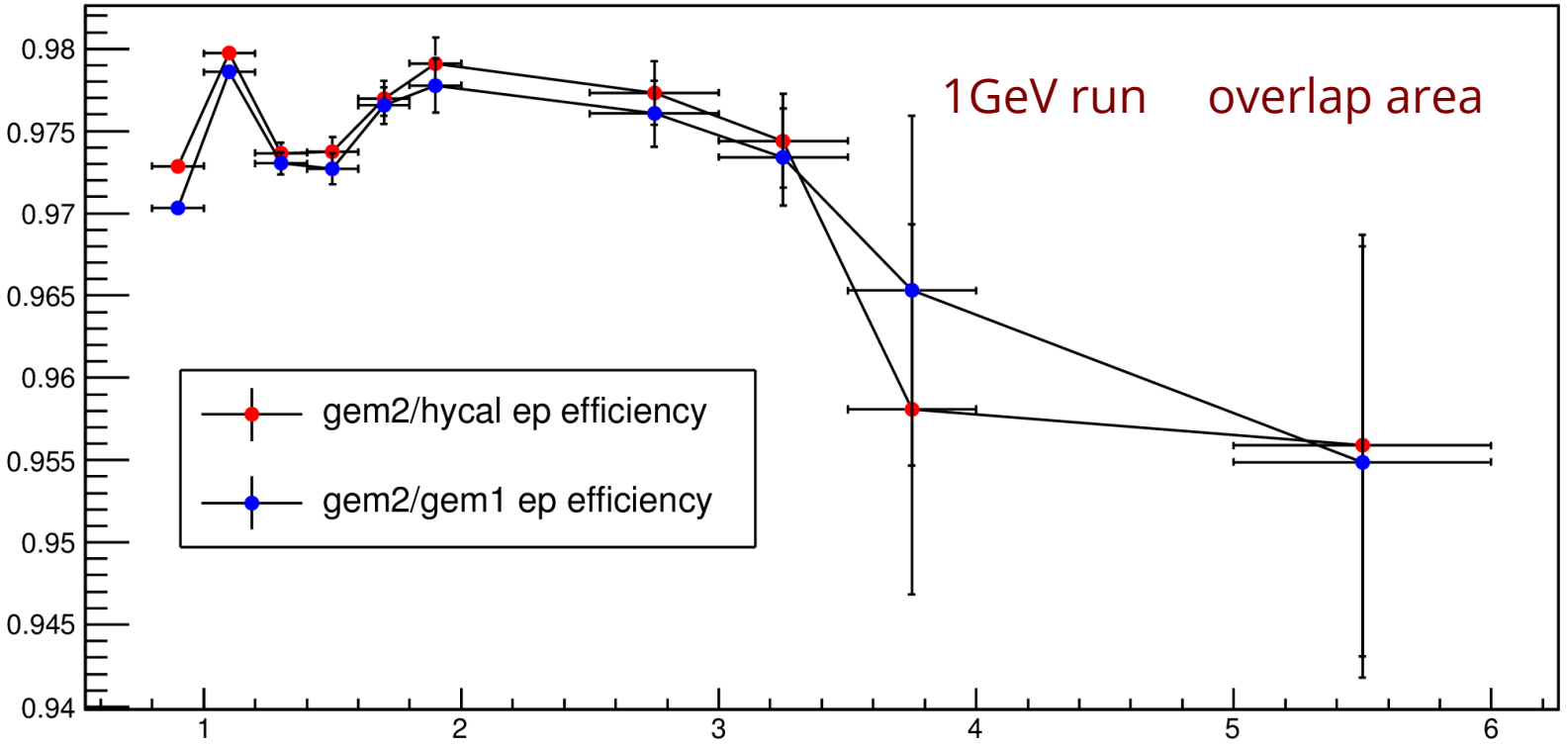
Major difference on cut compared to previous plots:

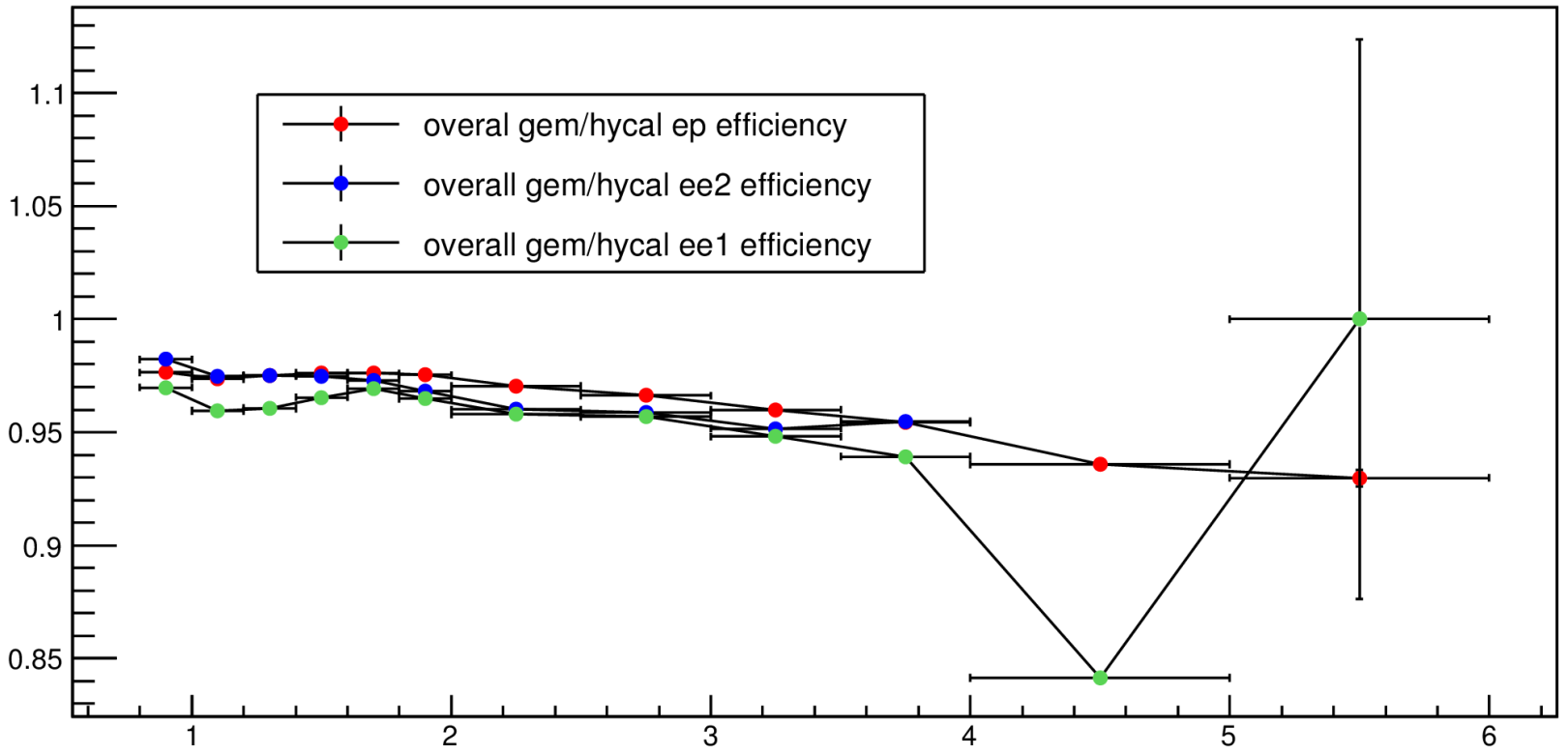
1), removed dead area from HV sectors

GEM1 efficiency



GEM2 efficiency



Overall efficiency (including overlap area)

Major difference than previous plots: removed HV sector dead area