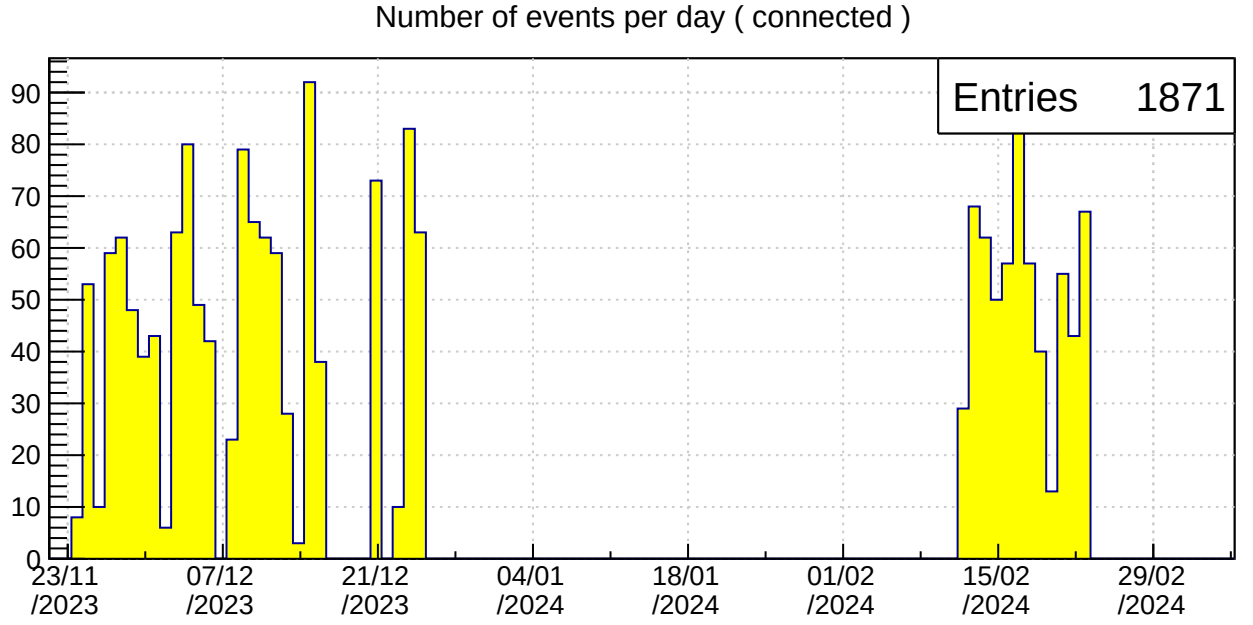
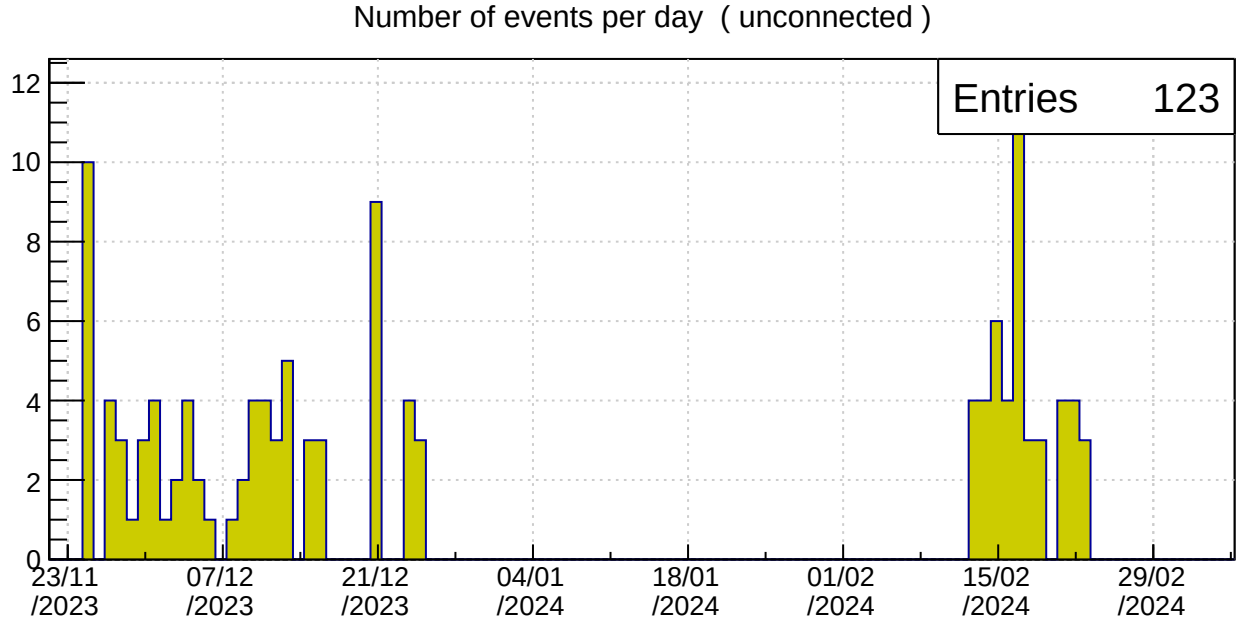
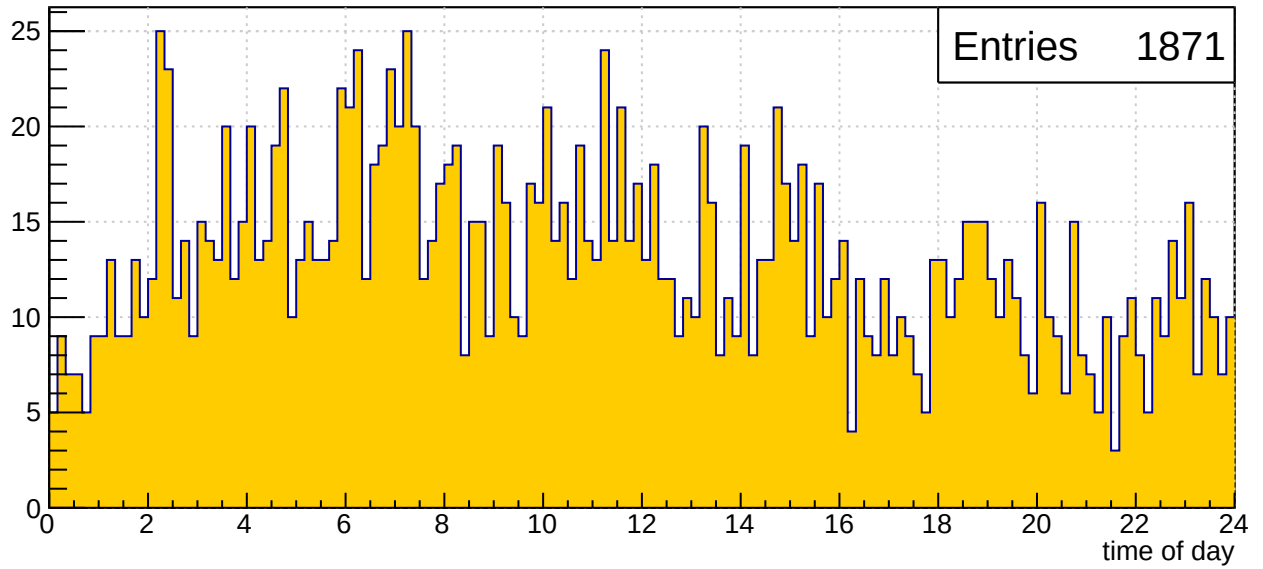
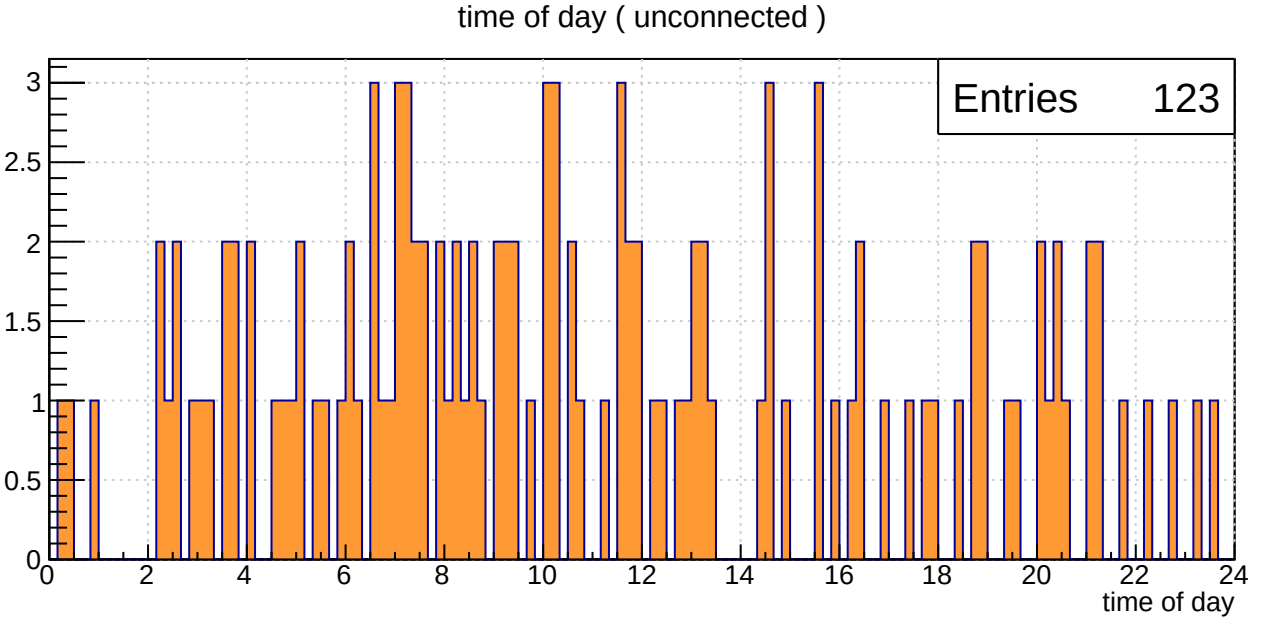
Mode 0 : **Efficiency : 0.9383 (1871 / 1994)**

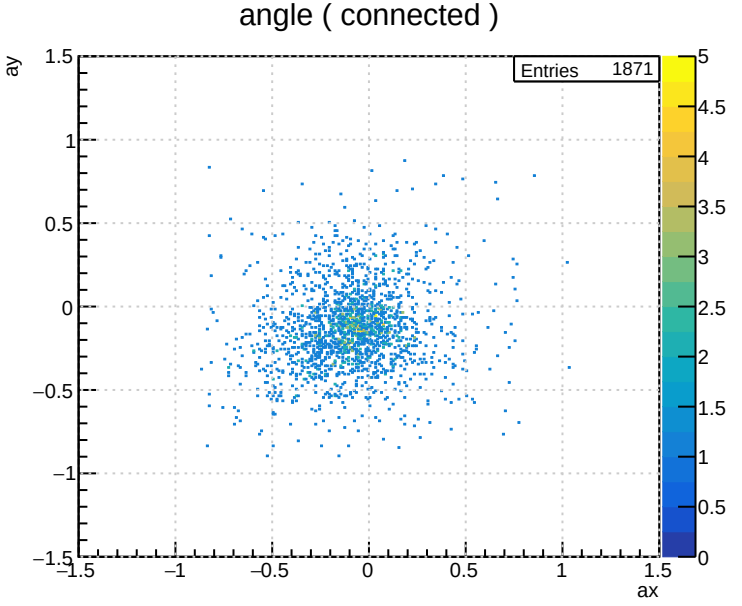
***Area selection : center of the NINJA detecter 30cm square .**

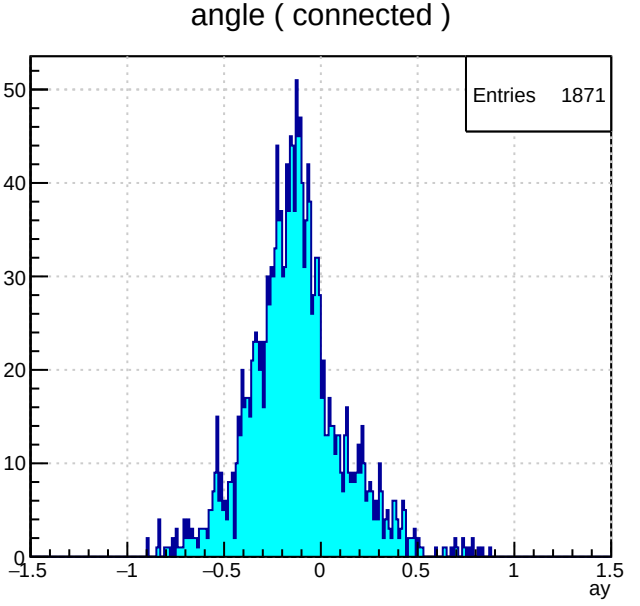

Number of events per day (connected)
Entries 1871
0
10
20
30
40
50
60
70
80
90
23/11 /2023
07/12 /2023
21/12 /2023
04/01 /2024
18/01 /2024
01/02 /2024
15/02 /2024
29/02 /2024

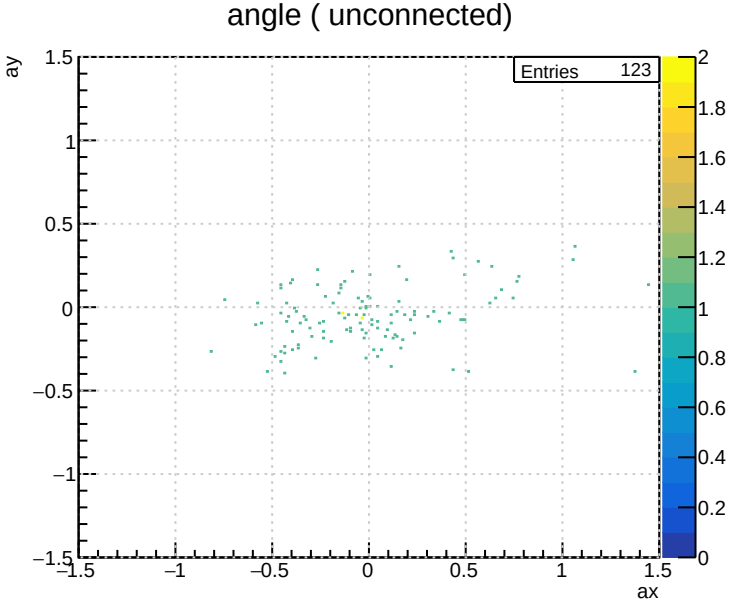

Number of events per day (unconnected)
Entries 123
0
2
4
6
8
10
12
23/11 /2023
07/12 /2023
21/12 /2023
04/01 /2024
18/01 /2024
01/02 /2024
15/02 /2024
29/02 /2024

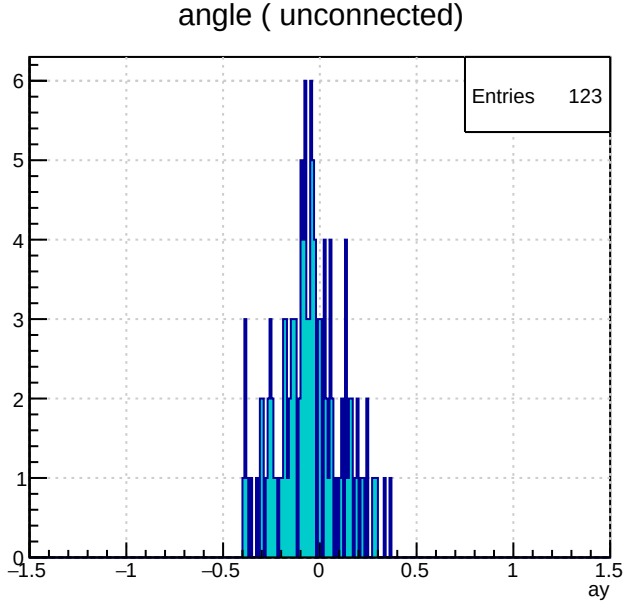

time of day (connected)
Entries 1871
25
20
15
10
5
0
0
2
4
6
8
10
12
14
16
18
20
22
24
time of day


time of day (unconnected)
Entries 123
3
2.5
2
1.5
1
0.5
0
0
2
4
6
8
10
12
14
16
18
20
22
24
time of day

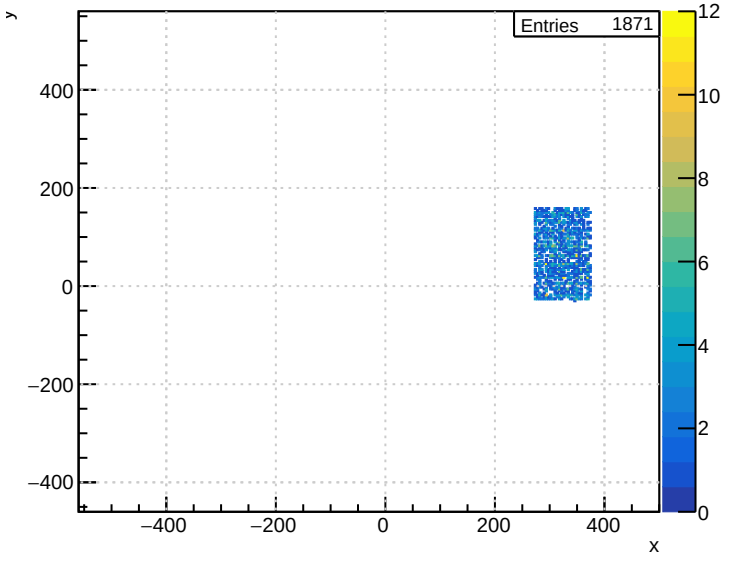

angle (connected)
Entries 1871
ay
ax


angle (connected)
Entries 1871
ay

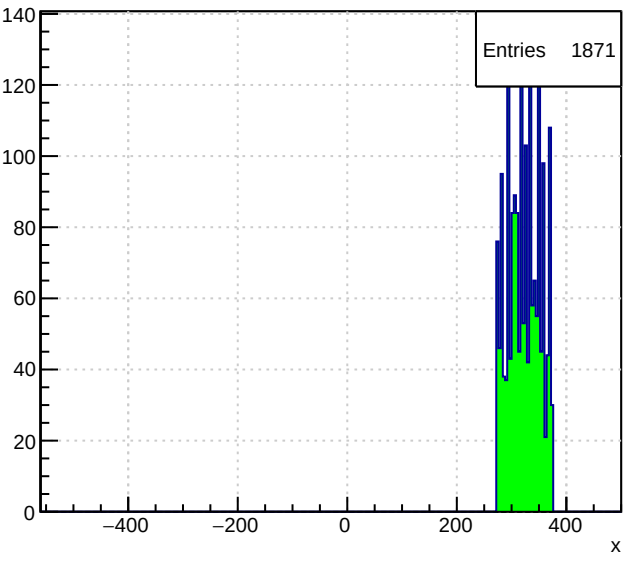

angle (unconnected)
Entries 123
ay
ax


angle (unconnected)
Entries 123
ay

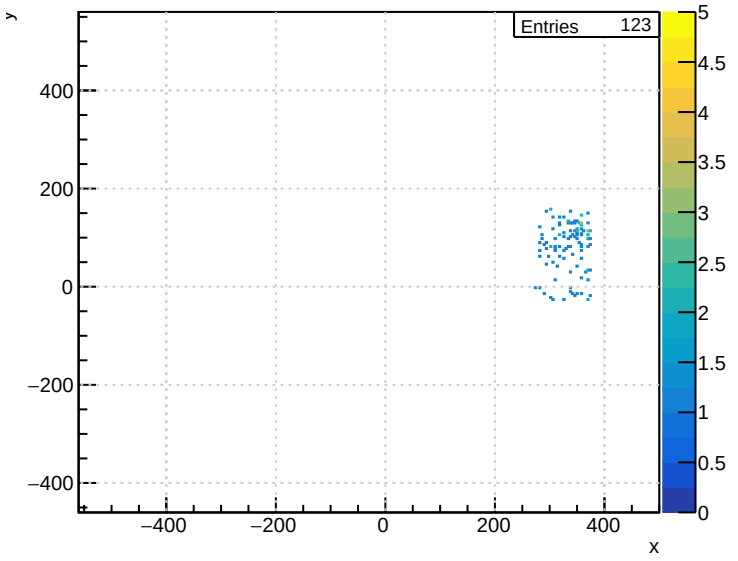
position (connected)



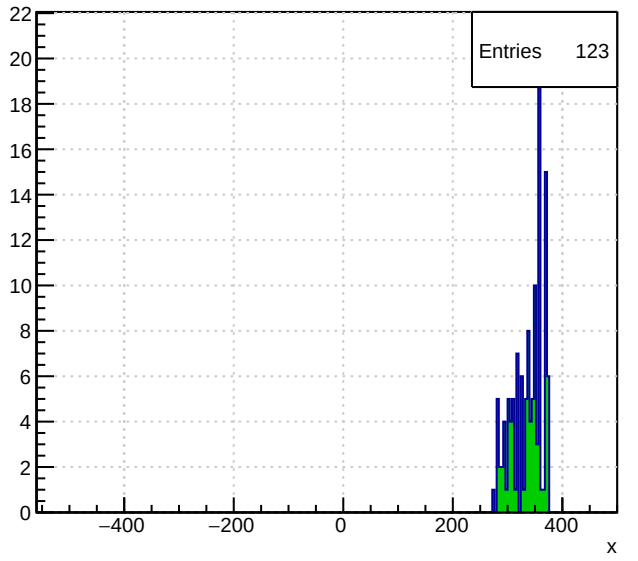
position (connected)

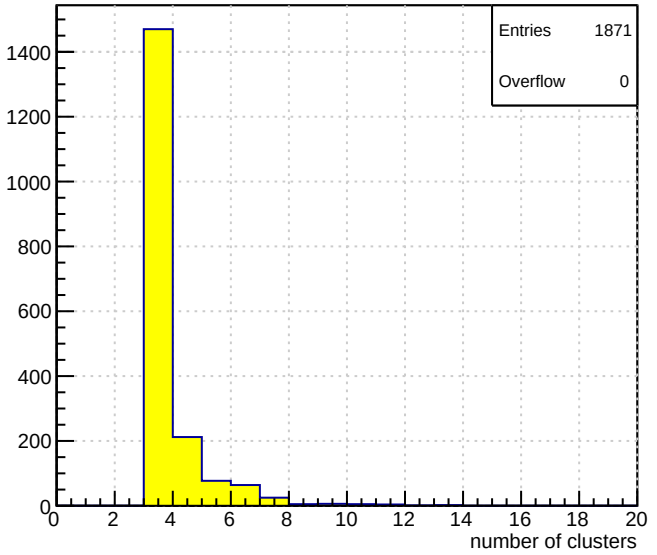


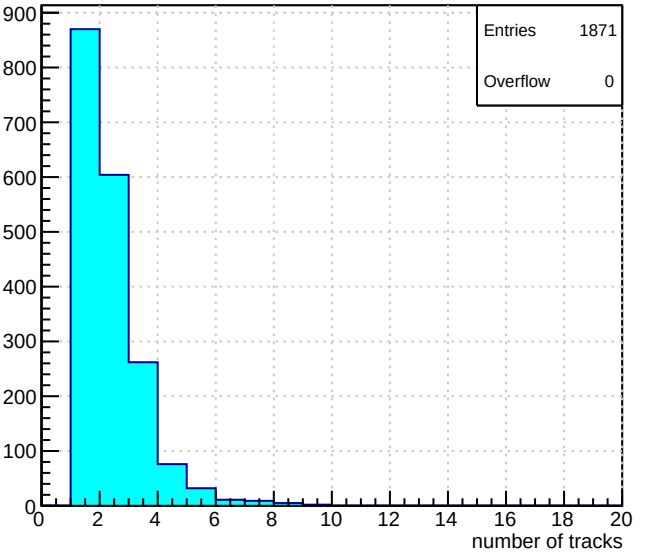
position (unconnected)

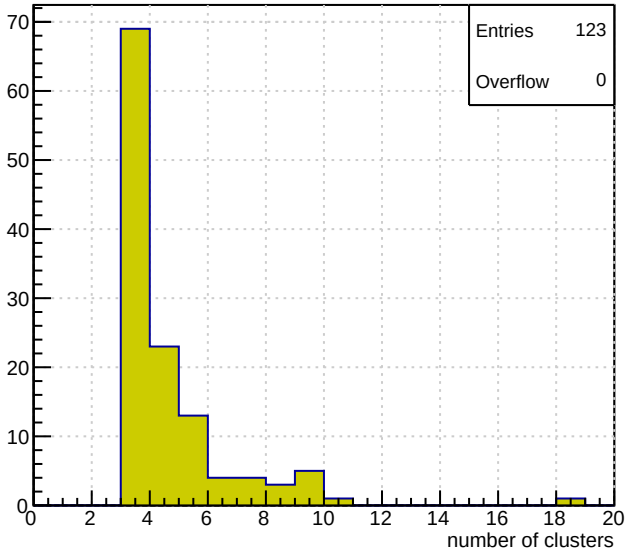


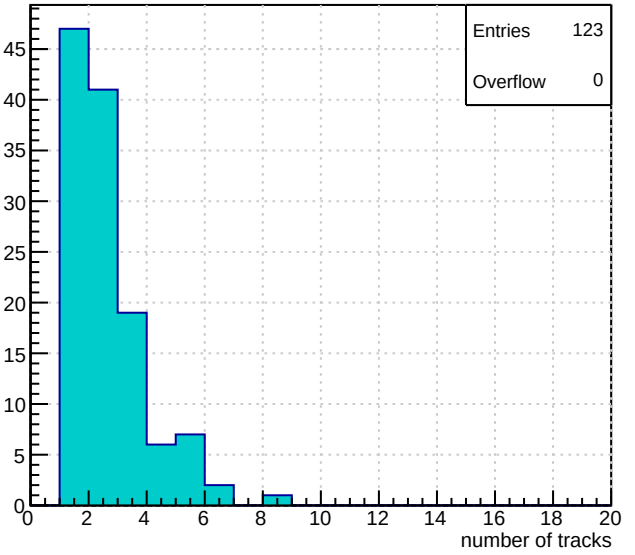
position (unconnected)



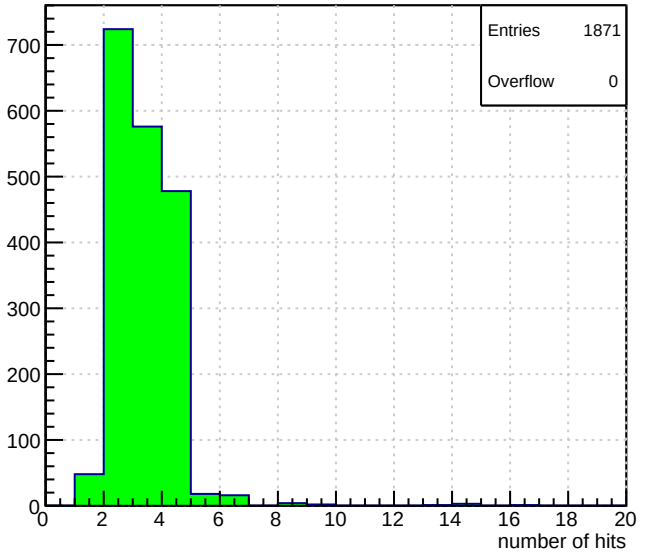

Number of Clusters (connected)
Entries 1871
Overflow 0
number of clusters


Number of BabyMIND tracks (connected)
Entries 1871
Overflow 0
number of tracks

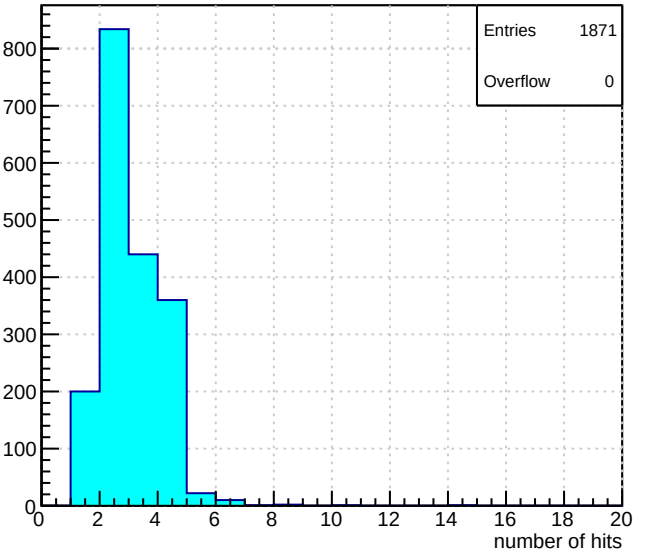

Number of Clusters (unconnected)
Entries 123
Overflow 0
number of clusters


Number of BabyMIND tracks (unconnected)
Entries 123
Overflow 0
number of tracks

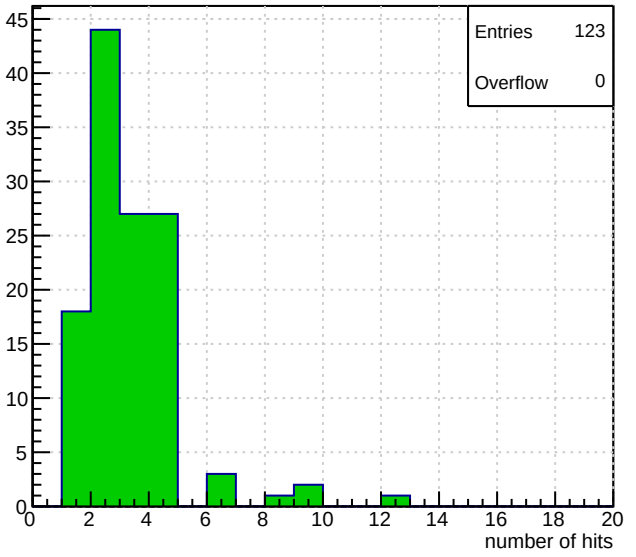
Number of Hits x-projection (connected)



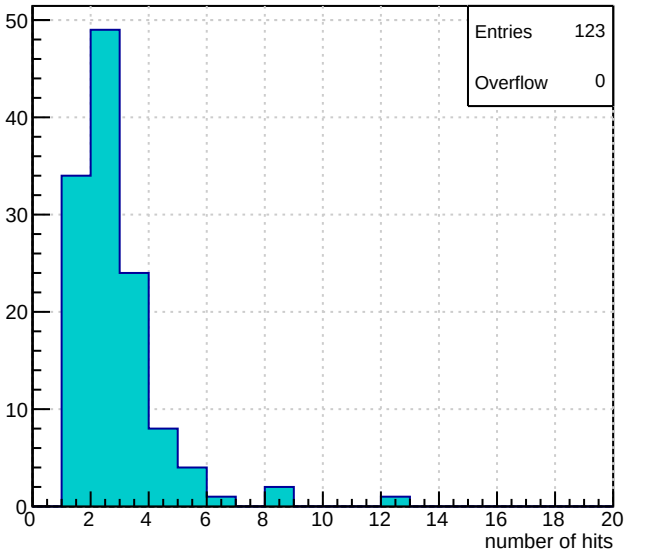
Number of Hits y-projection (connected)

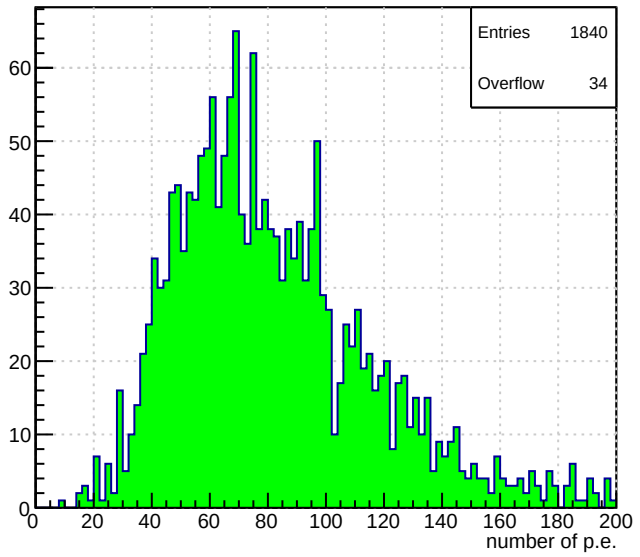


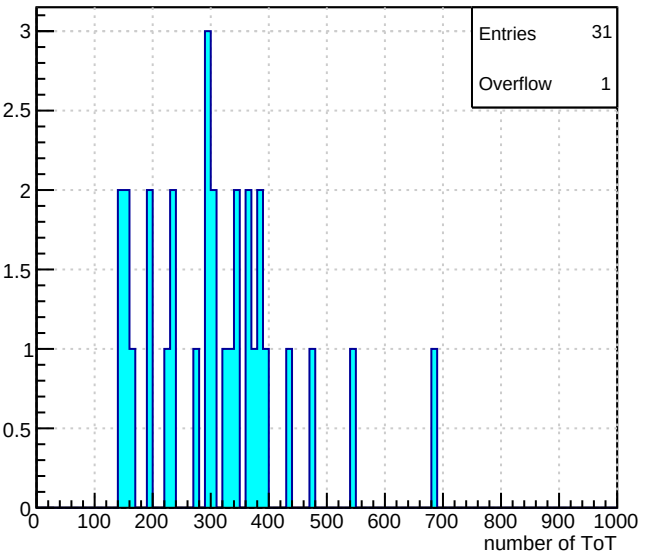
Number of Hits x-projection (unconnected)

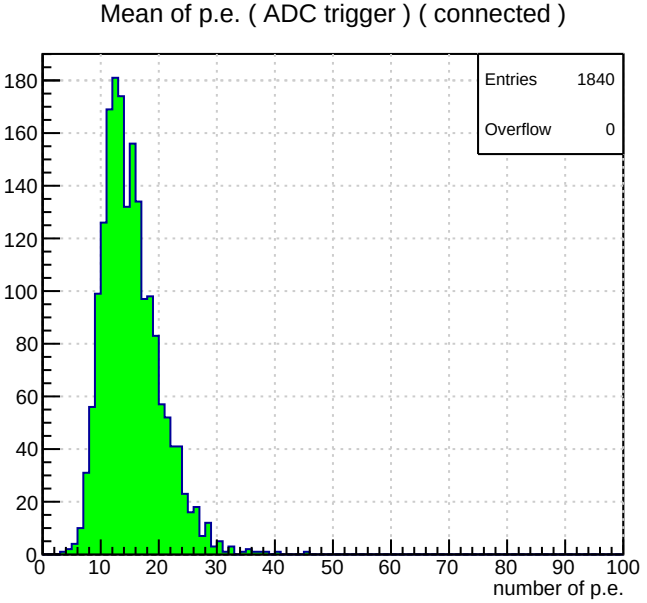


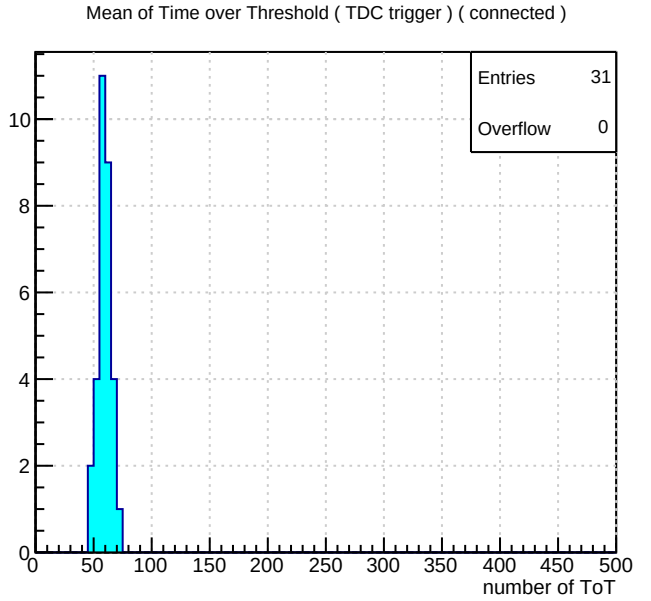
Number of Hits y-projection (unconnected)

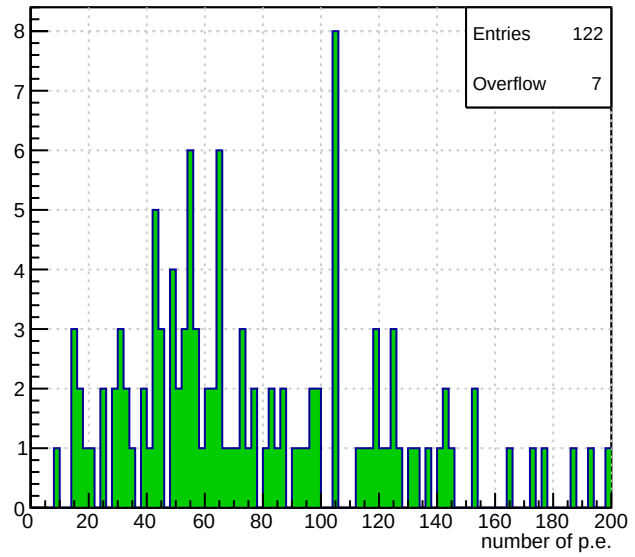


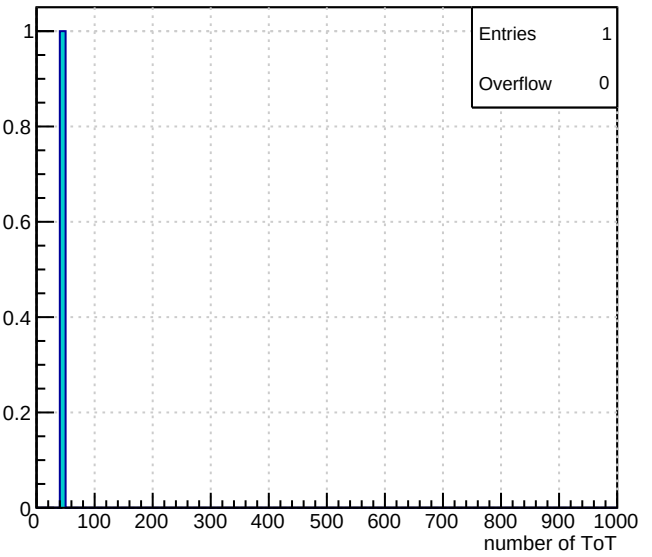

Sum of p.e. (ADC trigger) (connected)
Entries 1840
Overflow 34
number of p.e.

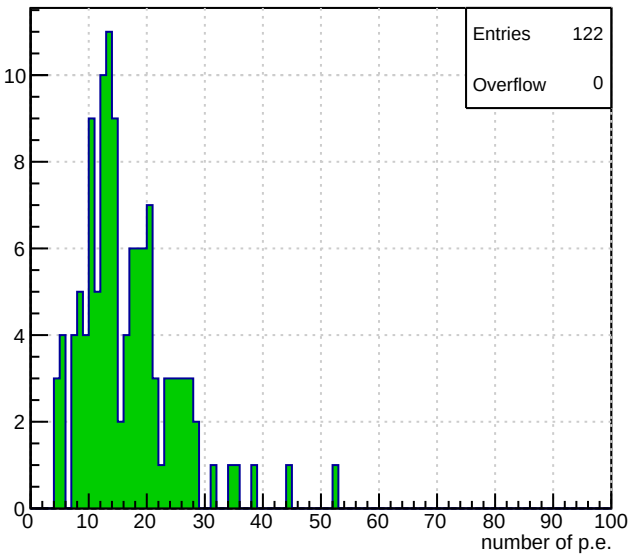

Sum of Time over Threshold (TDC trigger) (connected)
Entries 31
Overflow 1
number of ToT

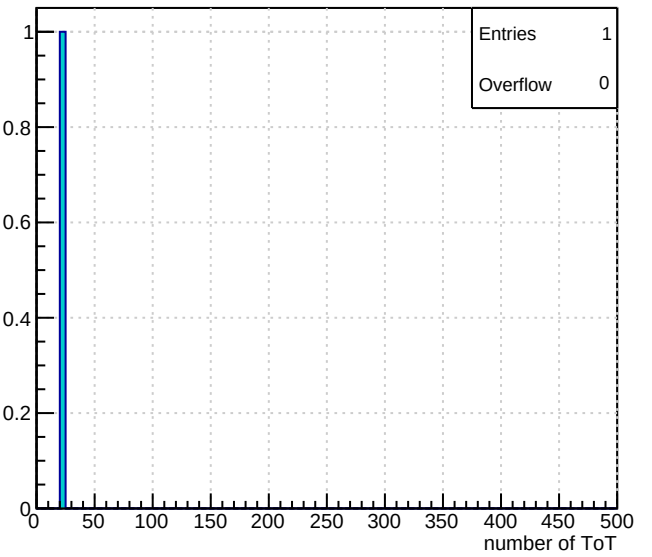

Mean of p.e. (ADC trigger) (connected)
Entries 1840
Overflow 0
number of p.e.

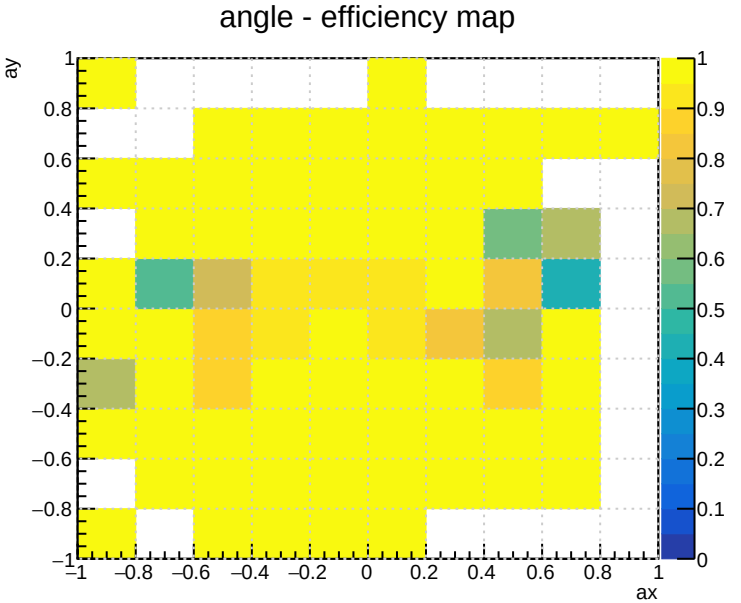

Mean of Time over Threshold (TDC trigger) (connected)
Entries 31
Overflow 0
number of ToT

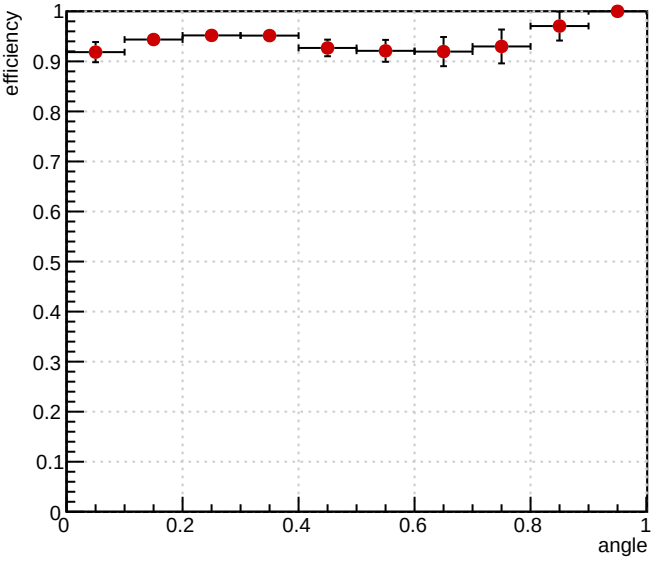

Sum of p.e. (ADC trigger) (unconnected)
Entries 122
Overflow 7
number of p.e.

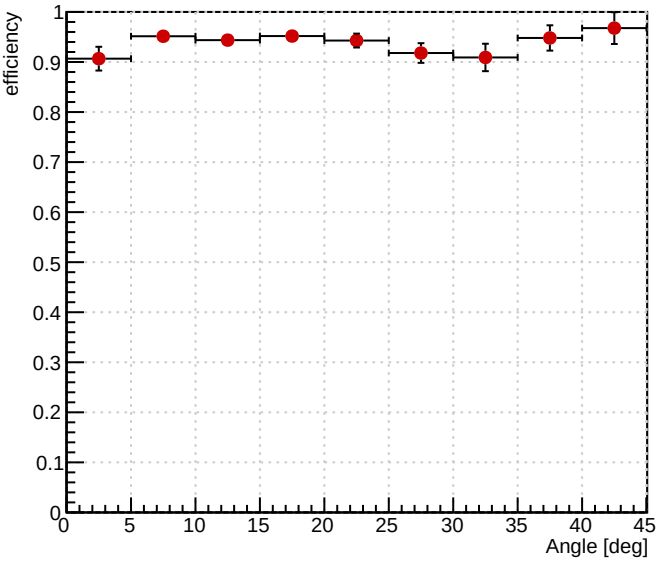

Sum of Time over Theshold (TDC trigger) (unconnected)
Entries 1
Overflow 0
number of ToT

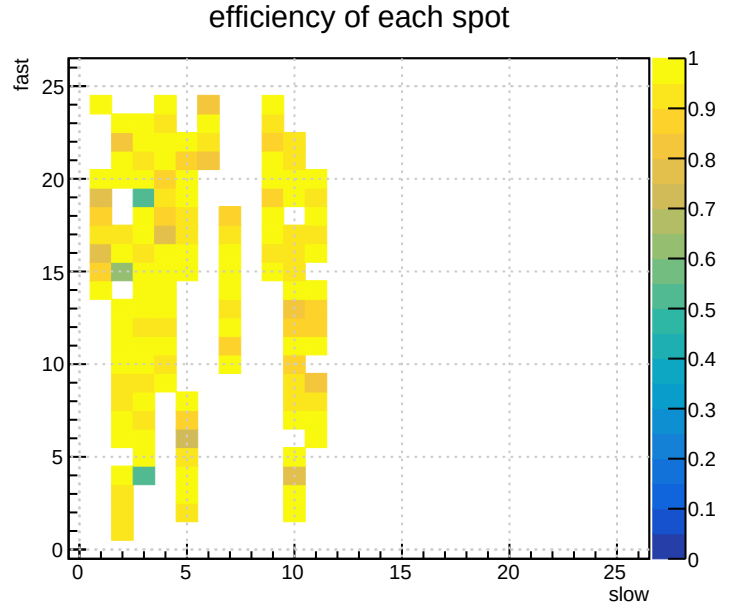

Mean of p.e. (ADC trigger) (unconnected)
Entries 122
Overflow 0
number of p.e.

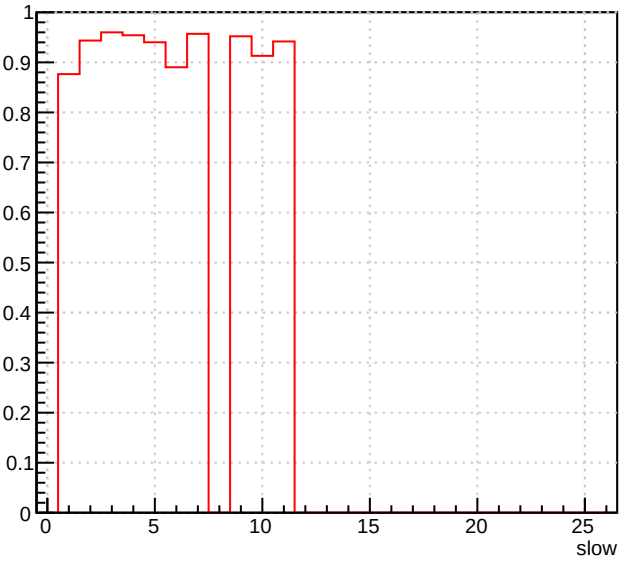

Mean of Time over Theshold (TDC trigger) (unconnected)
Entries 1
Overflow 0
number of ToT

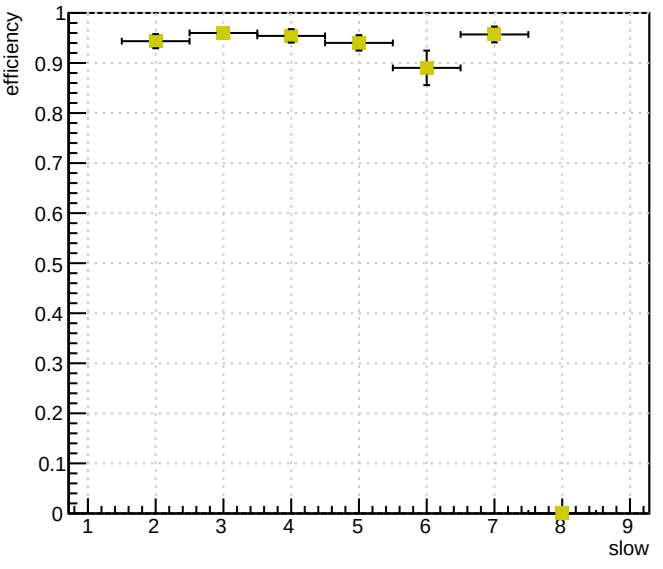

angle - efficiency map
ay
ax
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
0.9
0.7
0.5
0.3
0.1

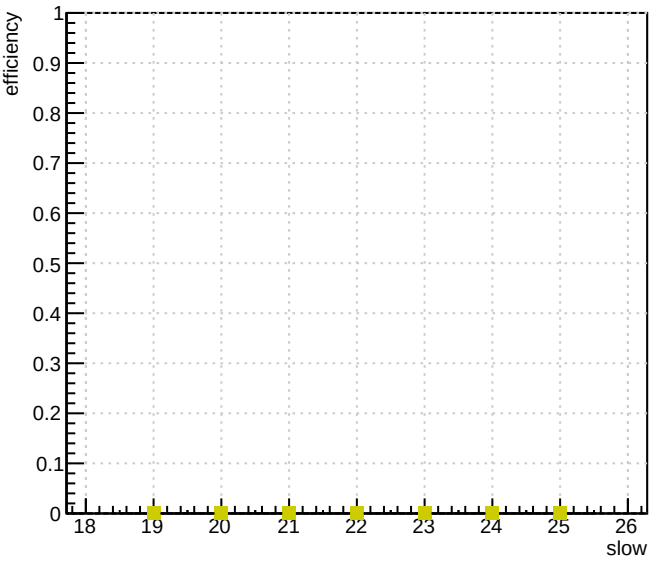

efficiency
angle
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

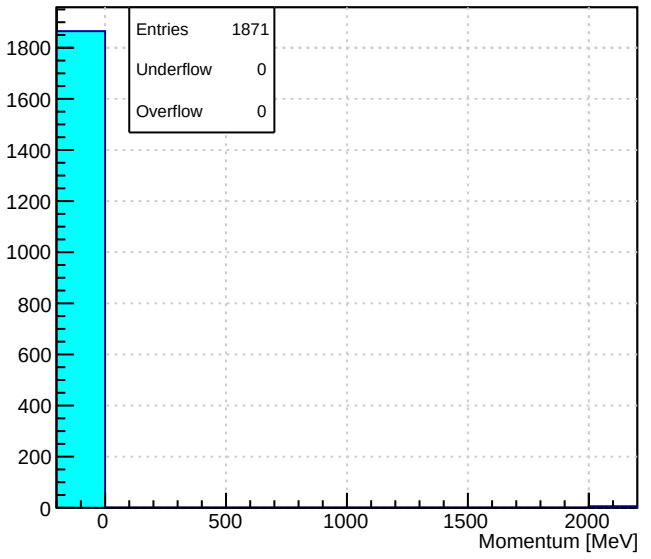

efficiency
Angle [deg]
0
5
10
15
20
25
30
35
40
45

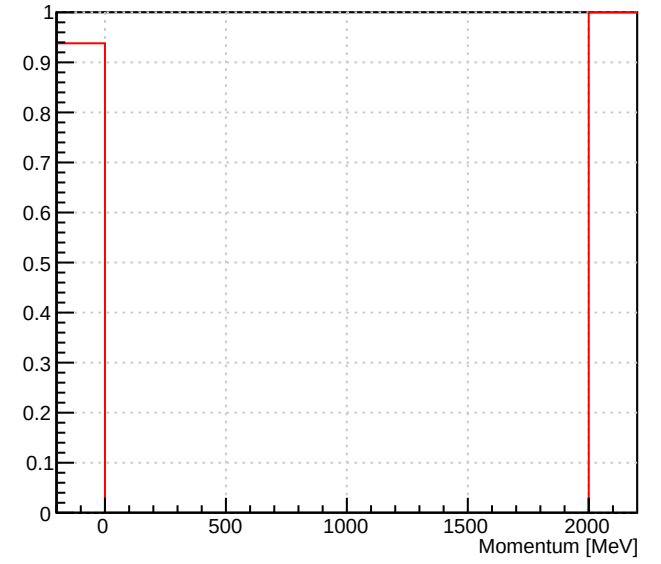

efficiency of each spot
fast
slow
0
5
10
15
20
25
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

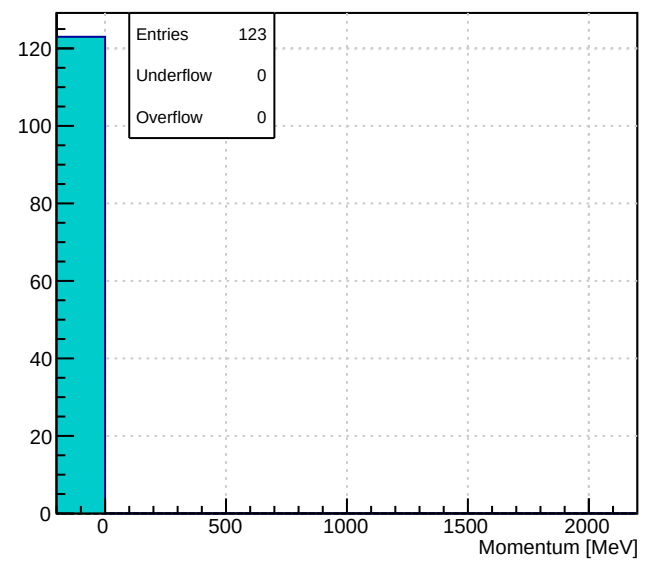

efficiency of slow spot
slow
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
5
10
15
20
25

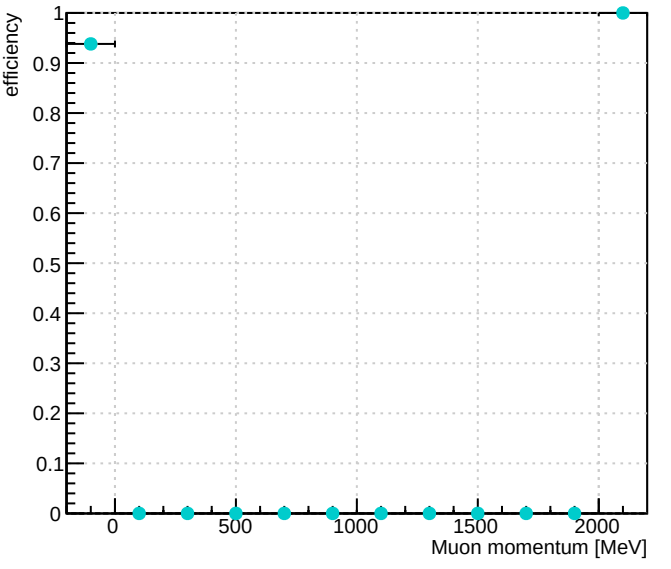

first half
efficiency
slow
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1
2
3
4
5
6
7
8
9


latter half
efficiency
slow
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
18
19
20
21
22
23
24
25
26


Muon momentum (connected events)
Entries 1871
Underflow 0
Overflow 0
Momentum [MeV]


momentum dependence of efficiency
Momentum [MeV]


Muon momentum (inefficiency events)
Entries 123
Underflow 0
Overflow 0
Momentum [MeV]


efficiency
Muon momentum [MeV]