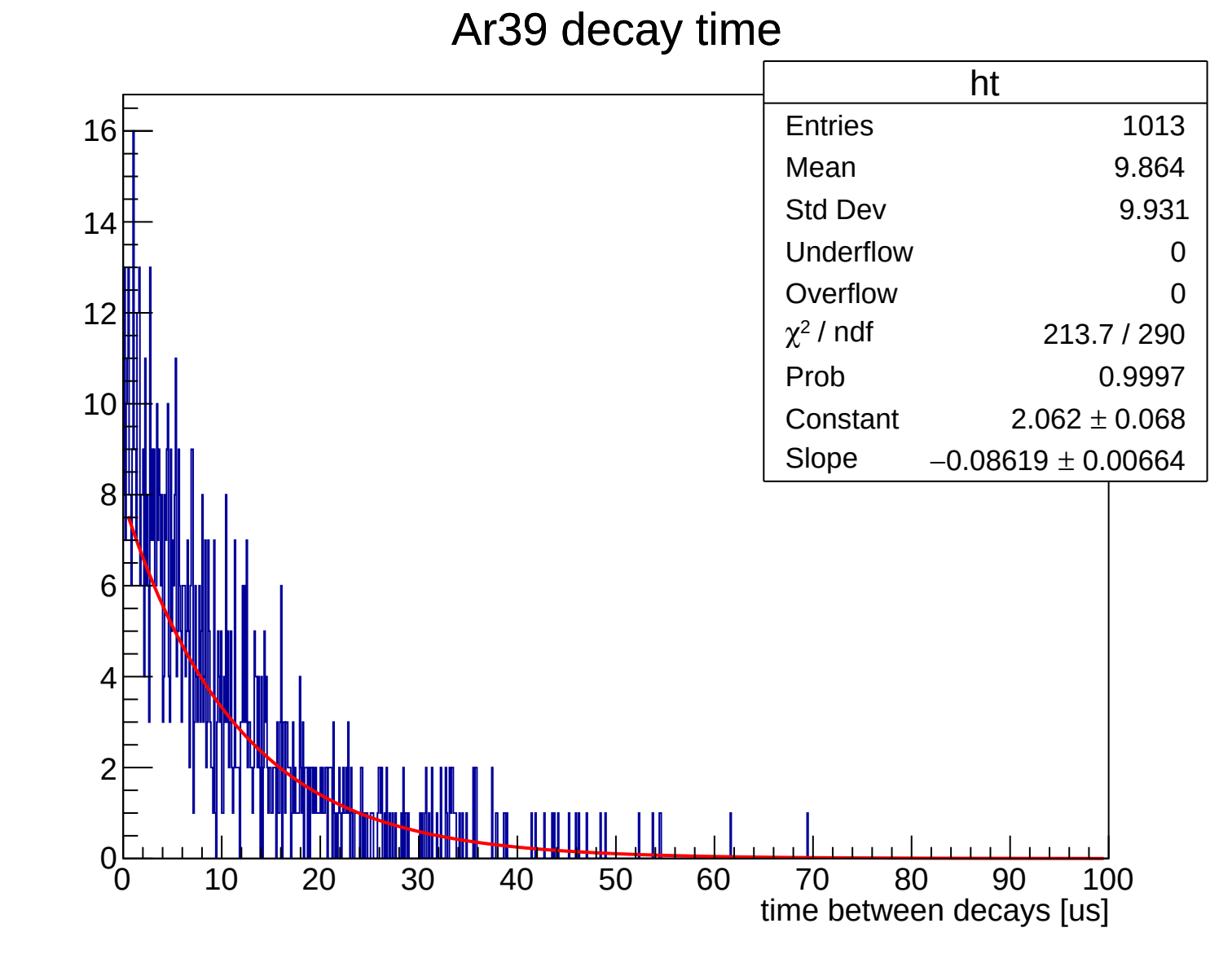
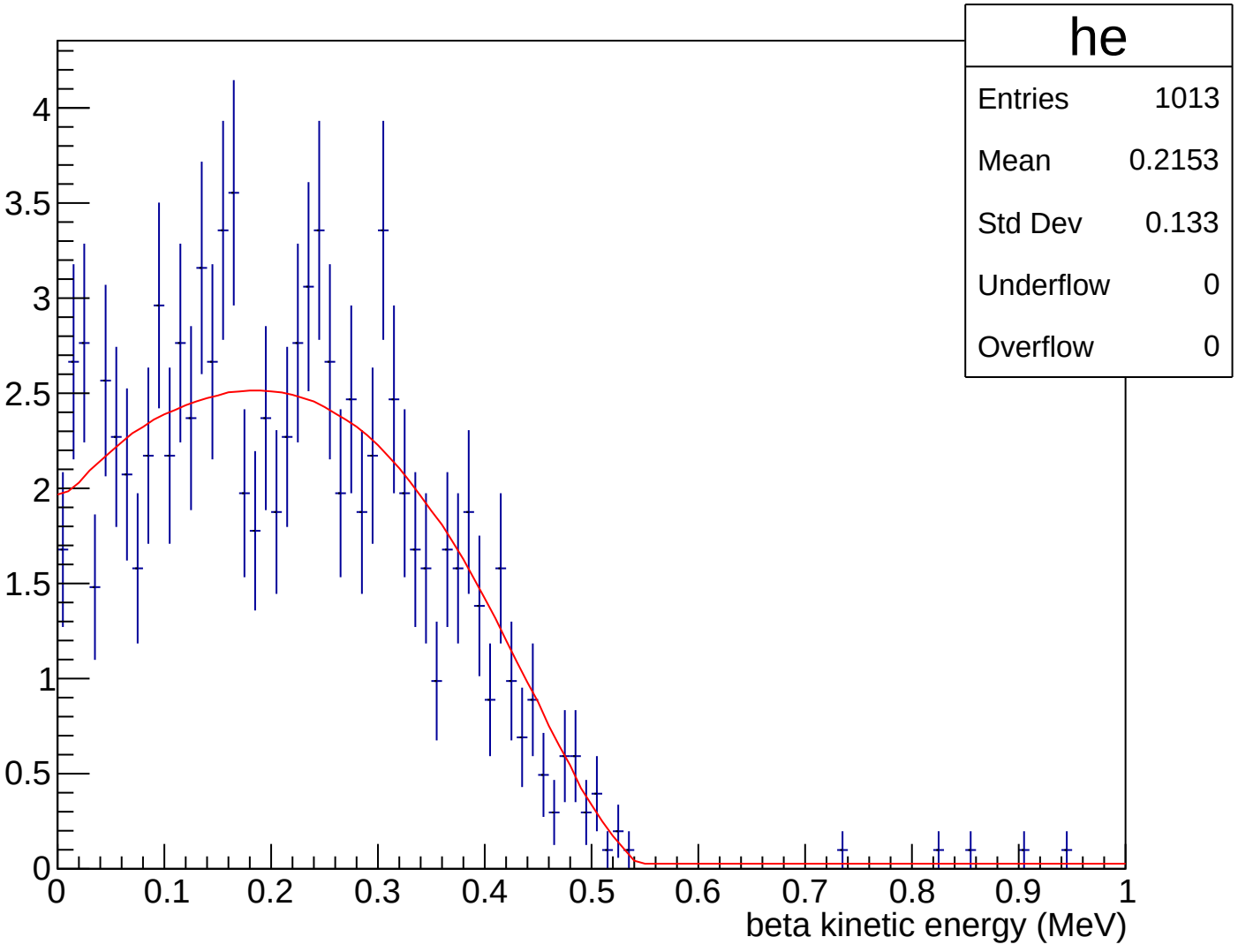
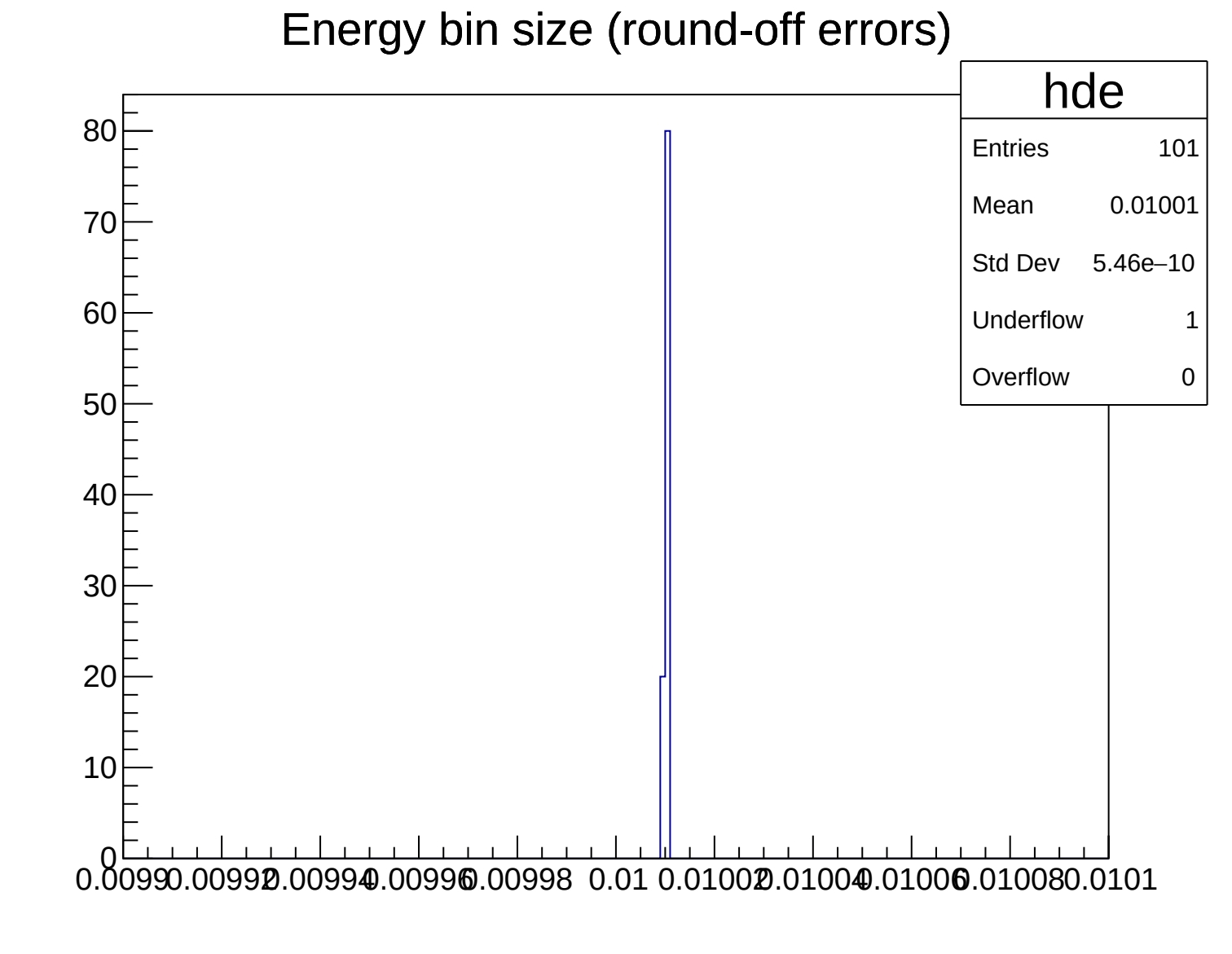
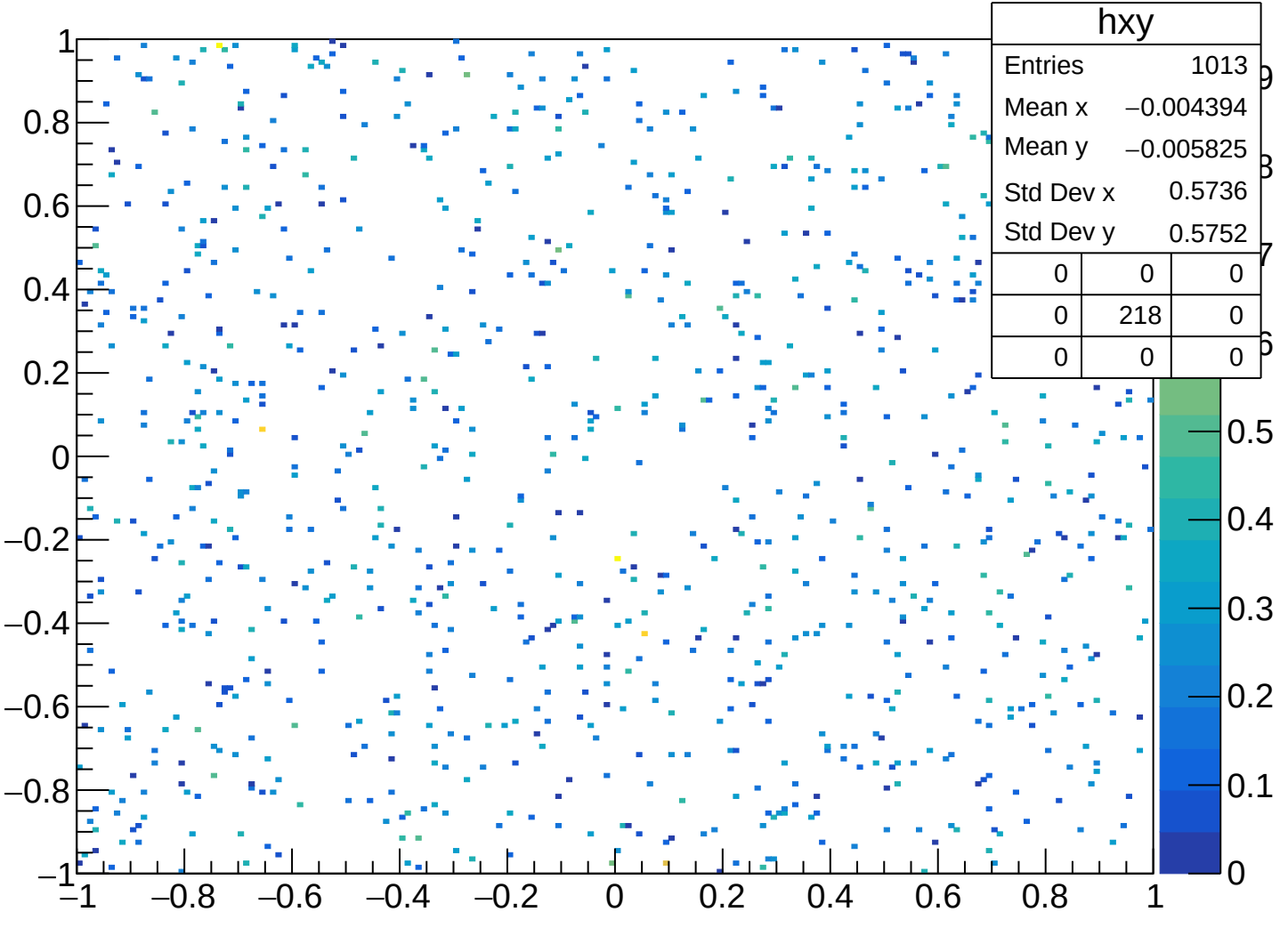
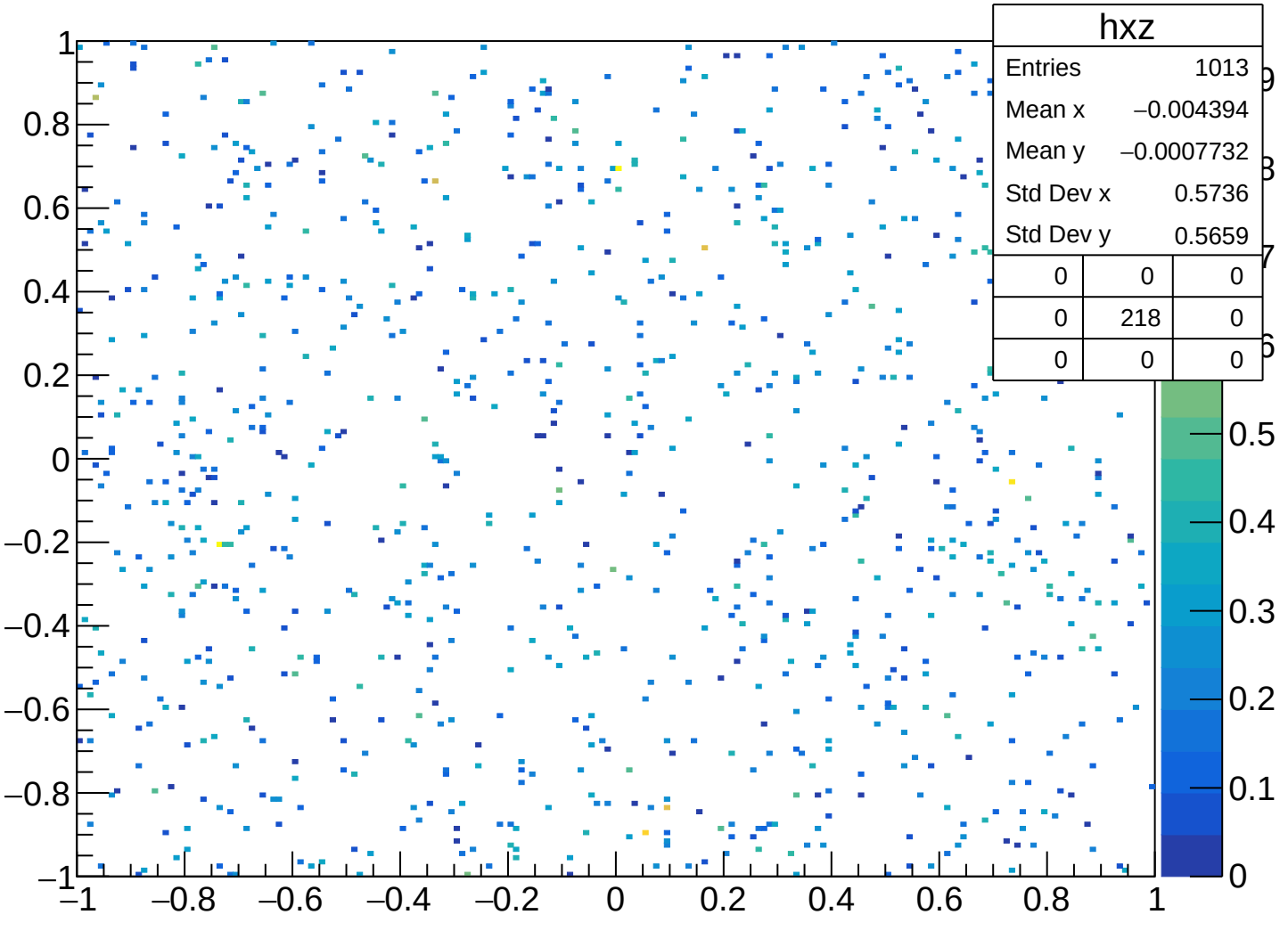

Ar39 decay time
ht
Entries 1013
Mean 9.864
Std Dev 9.931
Underflow 0
Overflow 0
χ² / ndf 213.7 / 290
Prob 0.9997
Constant 2.062 ± 0.068
Slope −0.08619 ± 0.00664
0
2
4
6
8
10
12
14
16
0
10
20
30
40
50
60
70
80
90
100
time between decays [us]


Ar39 decay spectrum
he
Entries 1013
Mean 0.2153
Std Dev 0.133
Underflow 0
Overflow 0
0
0.5
1
1.5
2
2.5
3
3.5
4
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
beta kinetic energy (MeV)


Energy bin size (round-off errors)
hde
Entries 101
Mean 0.01001
Std Dev 5.46e–10
Underflow 1
Overflow 0
80
70
60
50
40
30
20
10
0
0.0099
0.00992
0.00994
0.00996
0.00998
0.01
0.01002
0.01004
0.01006
0.01008
0.0101

# Decay location (Y vs X)




Decay location (Z vs X)
hxz
Entries 1013
Mean x –0.004394
Mean y –0.0007732
Std Dev x 0.5736
Std Dev y 0.5659
0 0 0
0 218 0
0 0 0
1
0.8
0.6
0.4
0.2
0
–0.2
–0.4
–0.6
–0.8
–1
–1 –0.8 –0.6 –0.4 –0.2 0 0.2 0.4 0.6 0.8 1
0.5
0.4
0.3
0.2
0.1
0