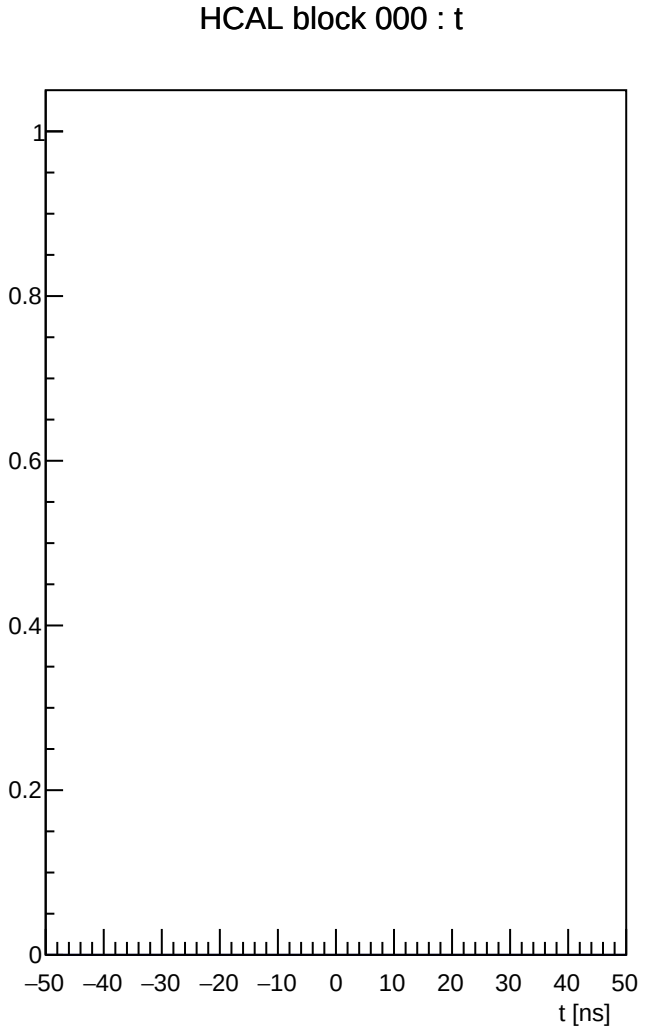
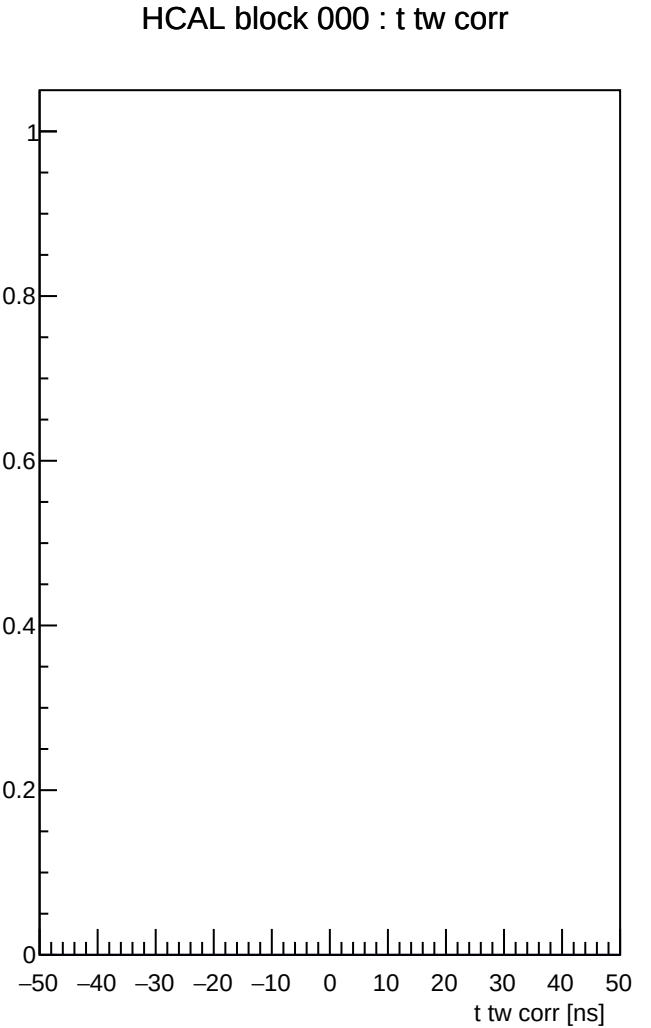
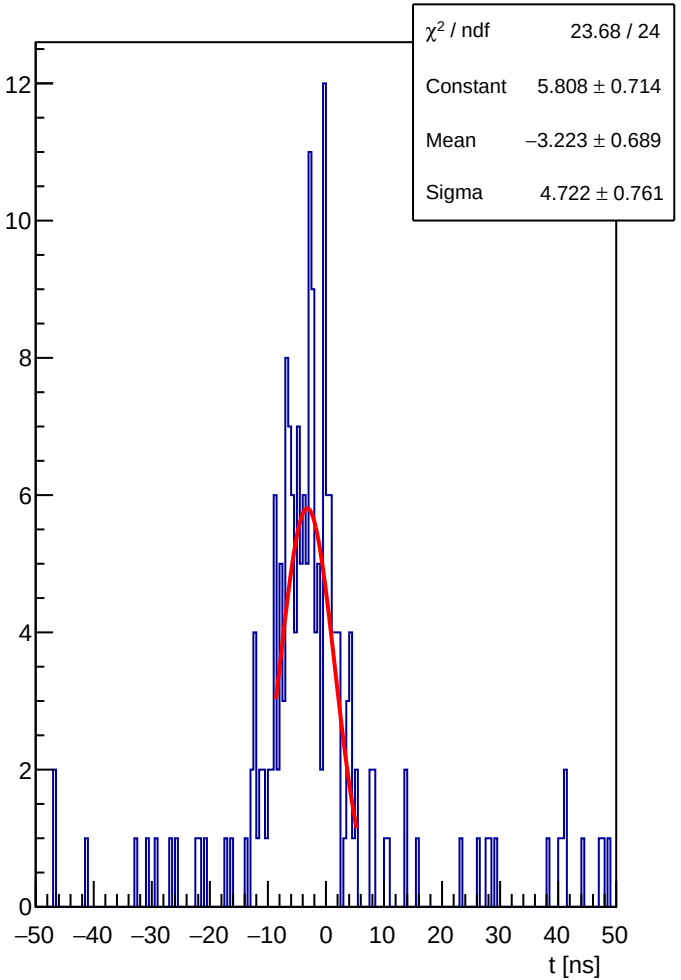
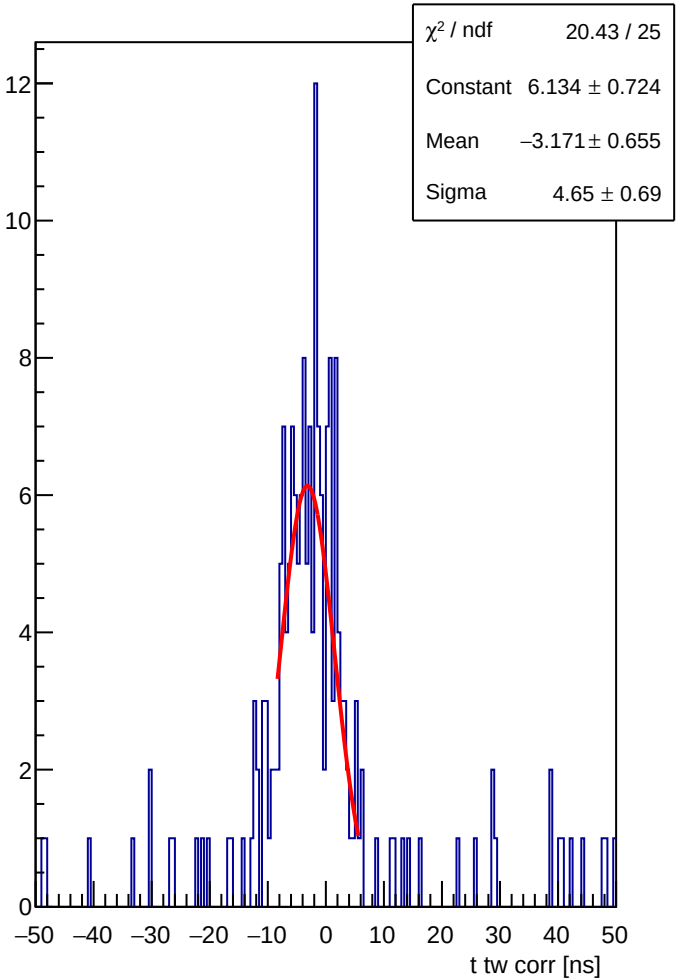
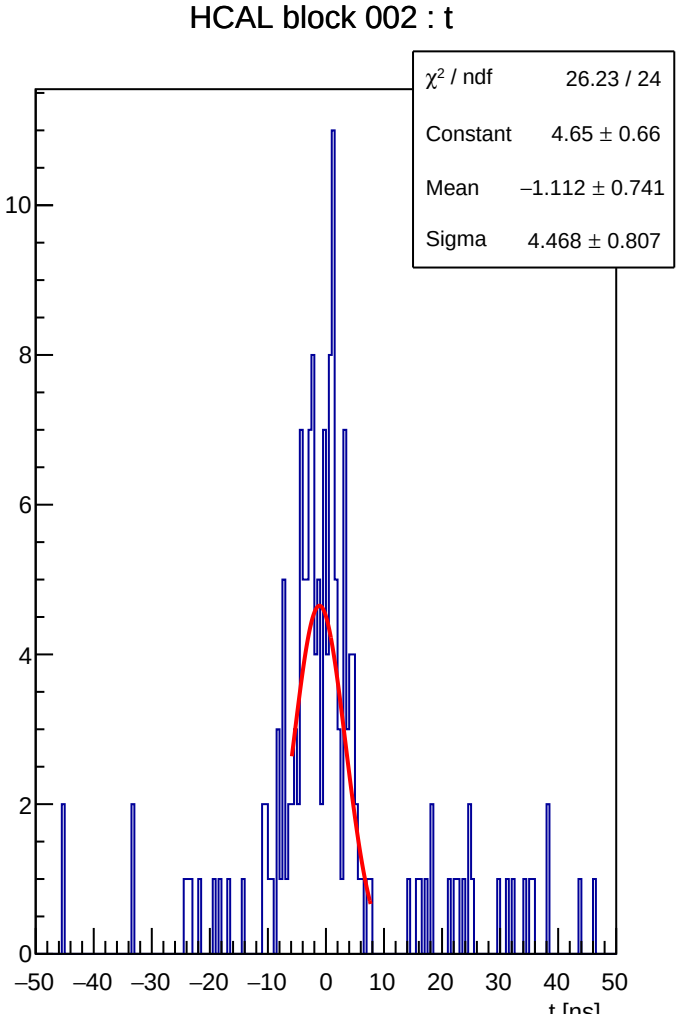
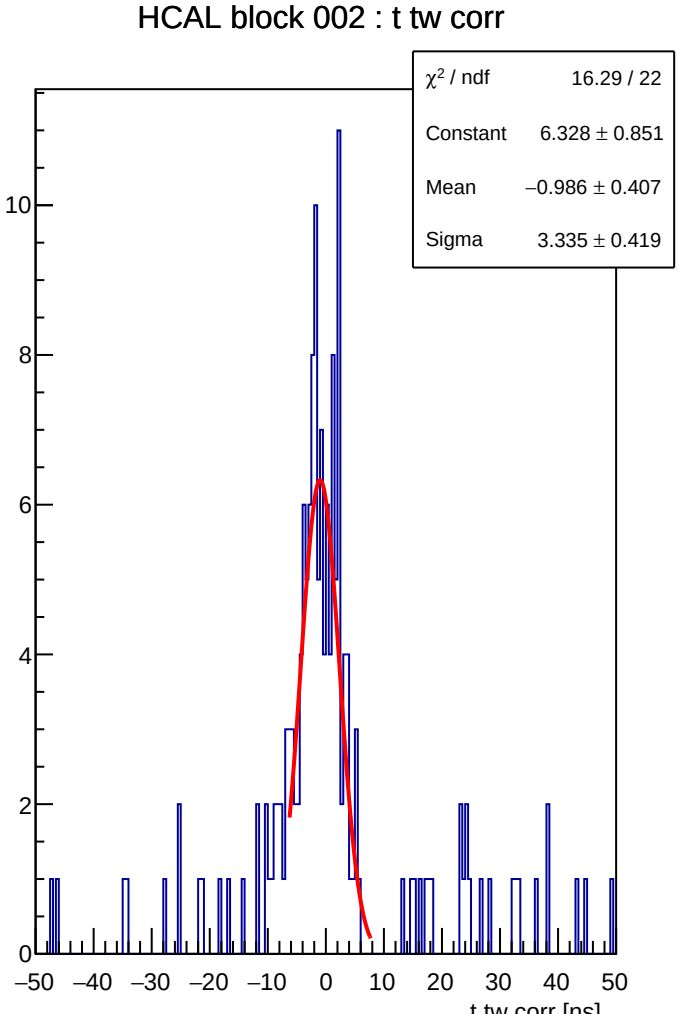

HCAL block 000 : t
1
0.8
0.6
0.4
0.2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

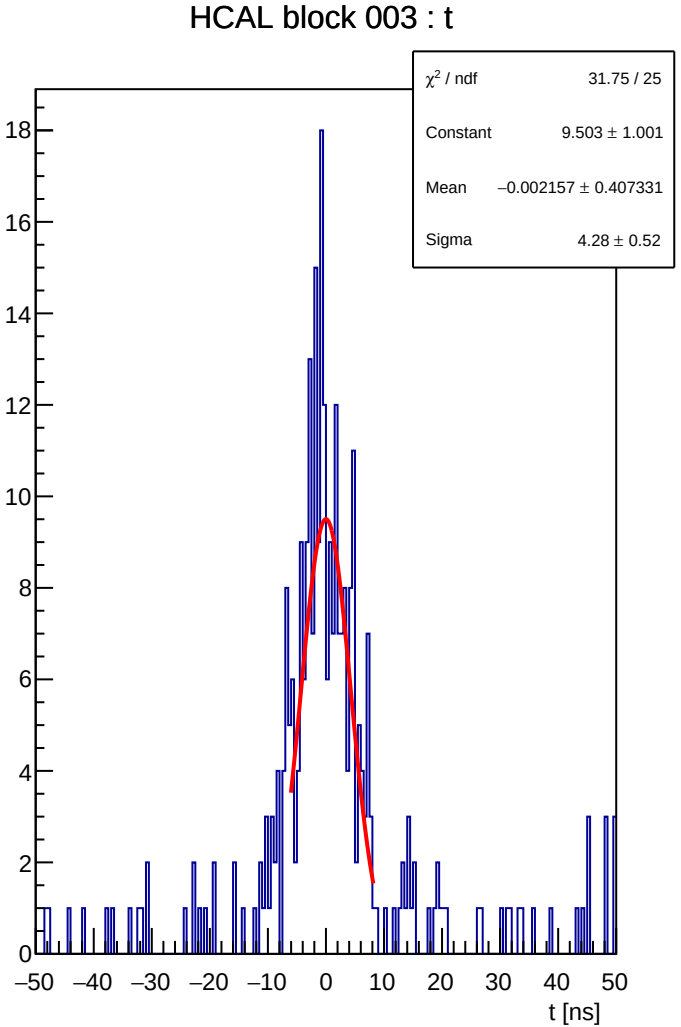

HCAL block 000 : t tw corr
1
0.8
0.6
0.4
0.2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

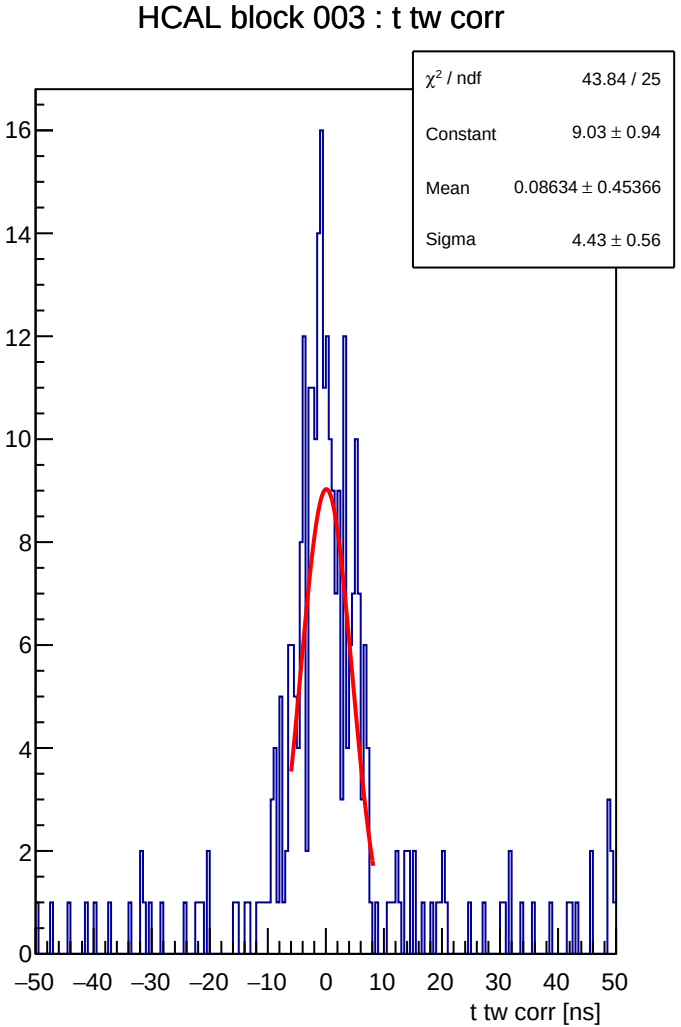

HCAL block 001 : t
χ² / ndf 23.68 / 24
Constant 5.808 ± 0.714
Mean −3.223 ± 0.689
Sigma 4.722 ± 0.761
12
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

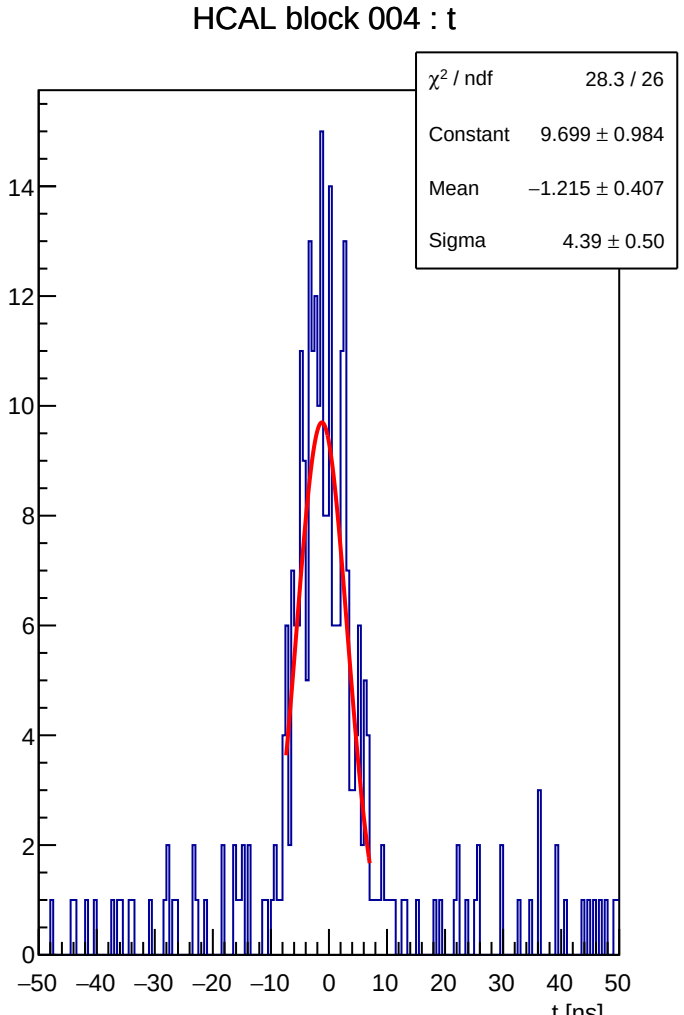

HCAL block 001 : t tw corr
χ² / ndf 20.43 / 25
Constant 6.134 ± 0.724
Mean −3.171 ± 0.655
Sigma 4.65 ± 0.69
12
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

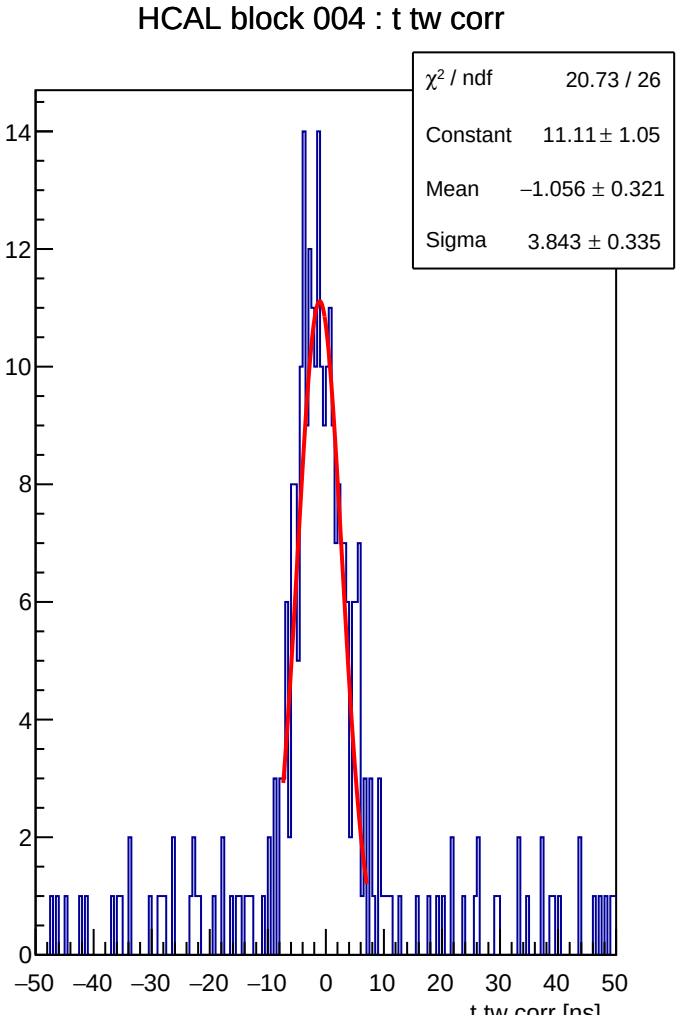

HCAL block 002 : t
χ² / ndf 26.23 / 24
Constant 4.65 ± 0.66
Mean −1.112 ± 0.741
Sigma 4.468 ± 0.807
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

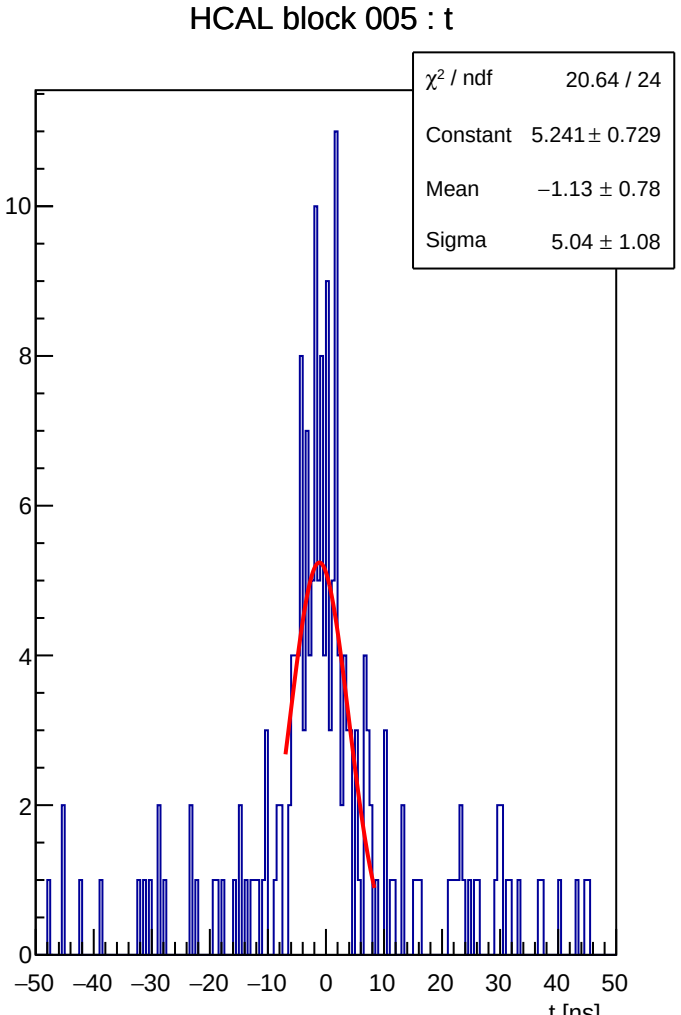

HCAL block 002 : t tw corr
χ² / ndf 16.29 / 22
Constant 6.328 ± 0.851
Mean −0.986 ± 0.407
Sigma 3.335 ± 0.419
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

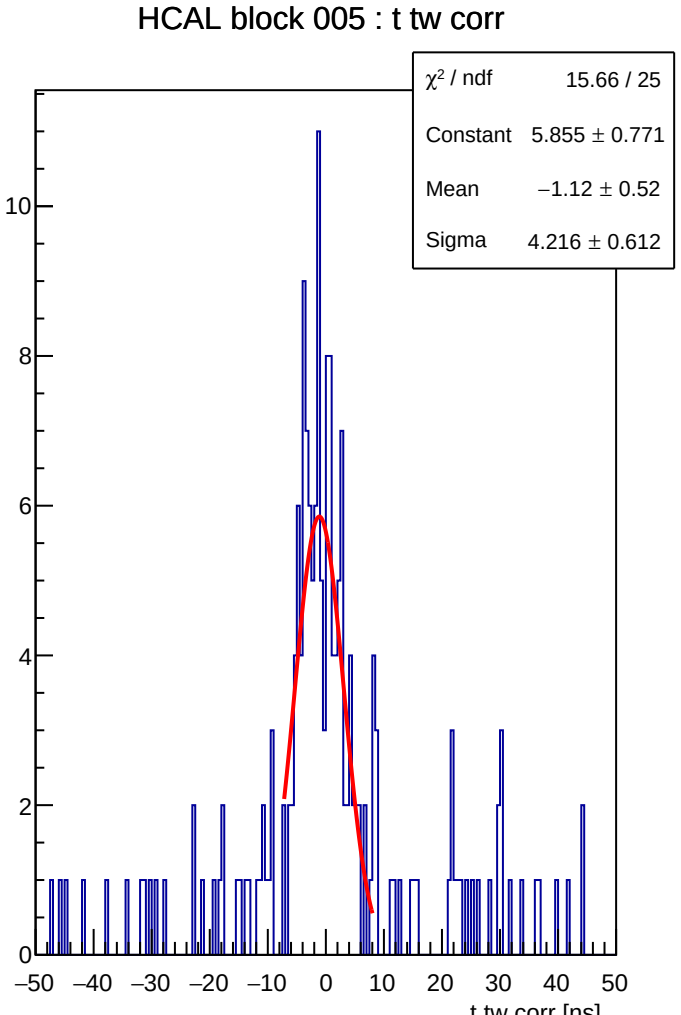

HCAL block 003 : t
χ² / ndf 31.75 / 25
Constant 9.503 ± 1.001
Mean −0.002157 ± 0.407331
Sigma 4.28 ± 0.52
t [ns]

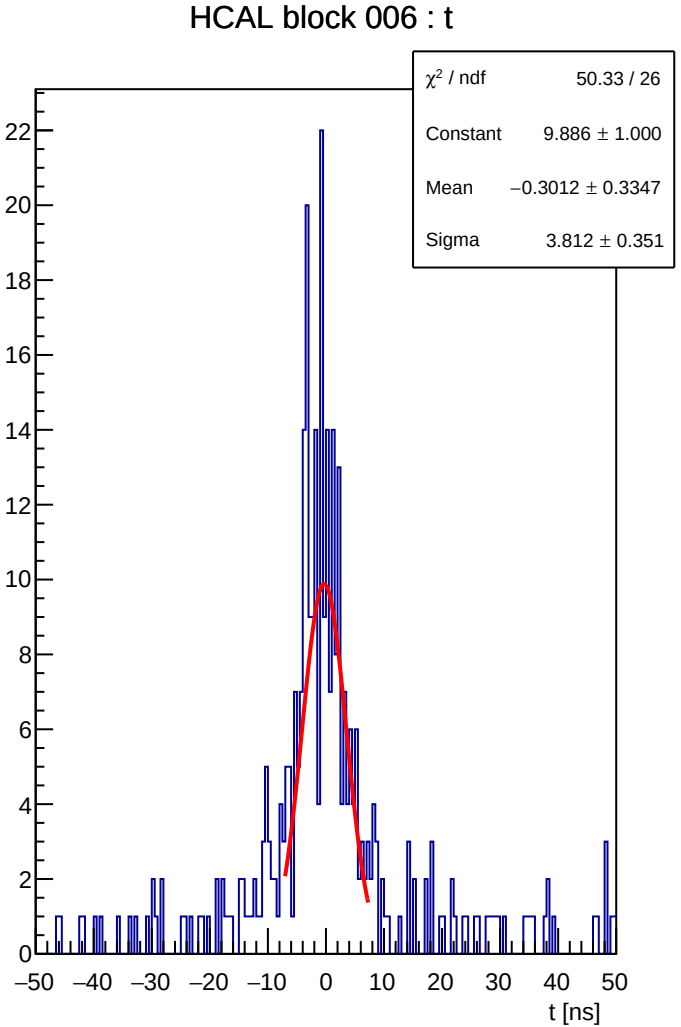

HCAL block 003 : t tw corr
χ² / ndf 43.84 / 25
Constant 9.03 ± 0.94
Mean 0.08634 ± 0.45366
Sigma 4.43 ± 0.56
t tw corr [ns]

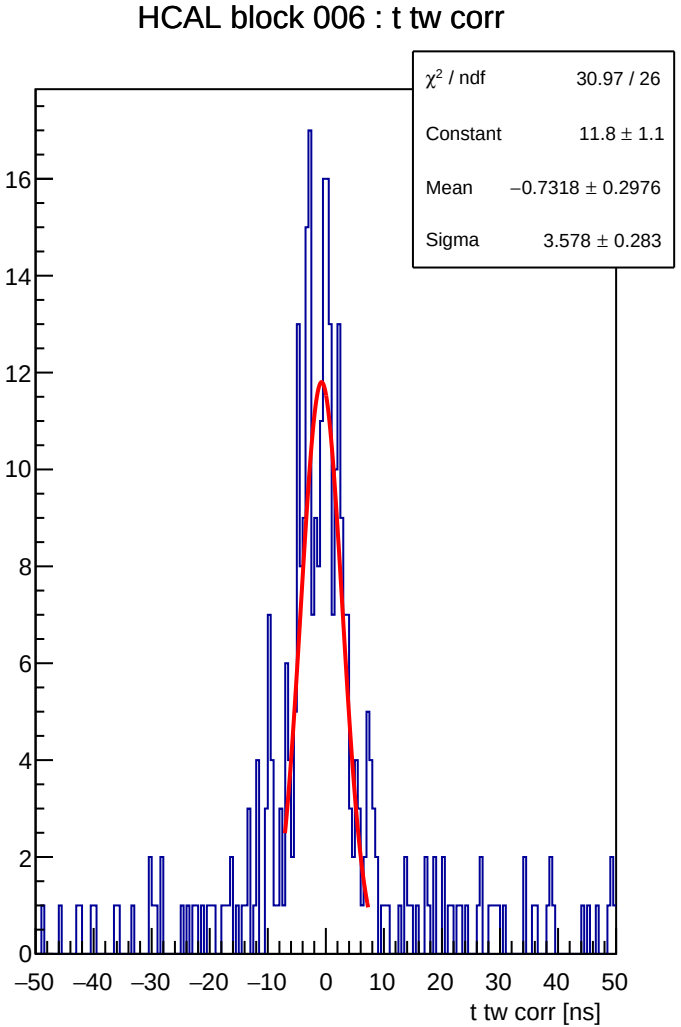

HCAL block 004 : t
χ² / ndf 28.3 / 26
Constant 9.699 ± 0.984
Mean −1.215 ± 0.407
Sigma 4.39 ± 0.50
t [ns]

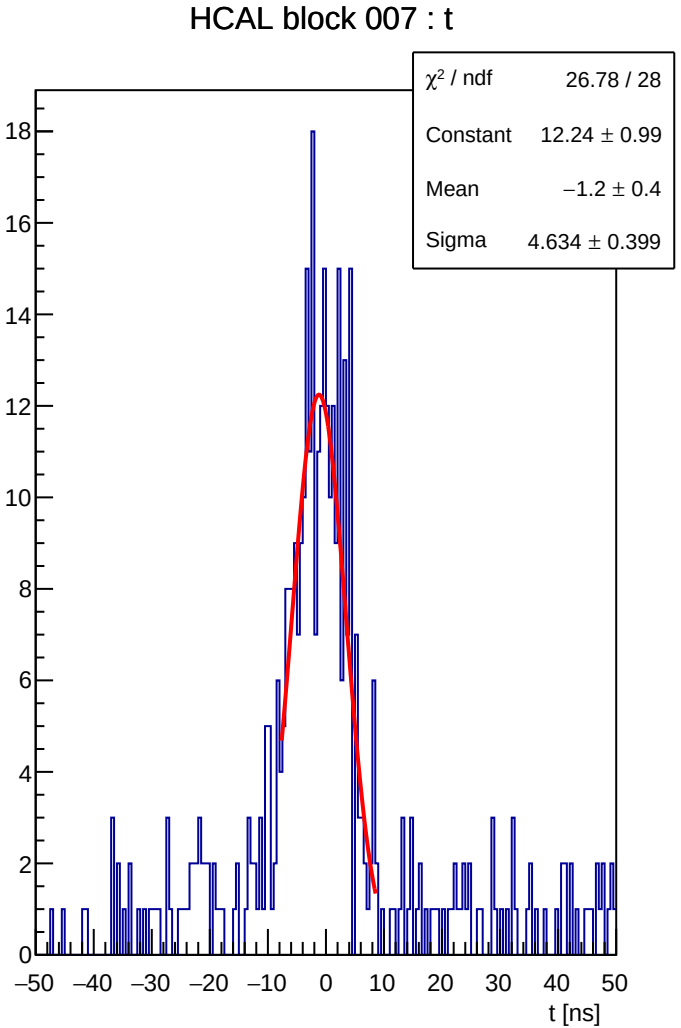

HCAL block 004 : t tw corr
χ² / ndf 20.73 / 26
Constant 11.11 ± 1.05
Mean −1.056 ± 0.321
Sigma 3.843 ± 0.335
t tw corr [ns]

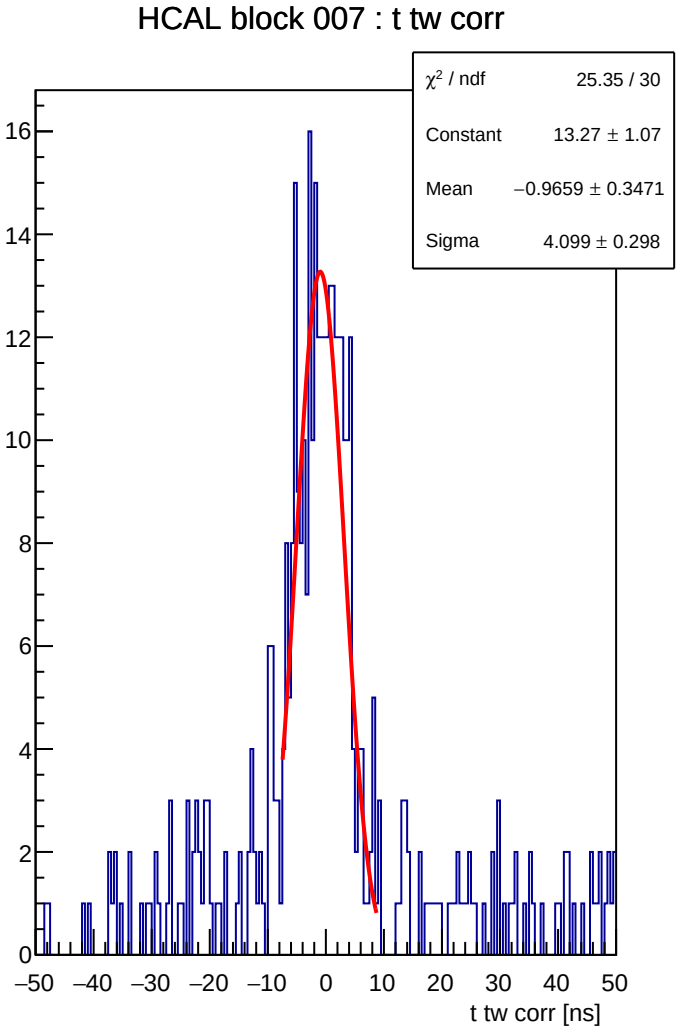

HCAL block 005 : t
χ² / ndf 20.64 / 24
Constant 5.241 ± 0.729
Mean −1.13 ± 0.78
Sigma 5.04 ± 1.08
0
2
4
6
8
10
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

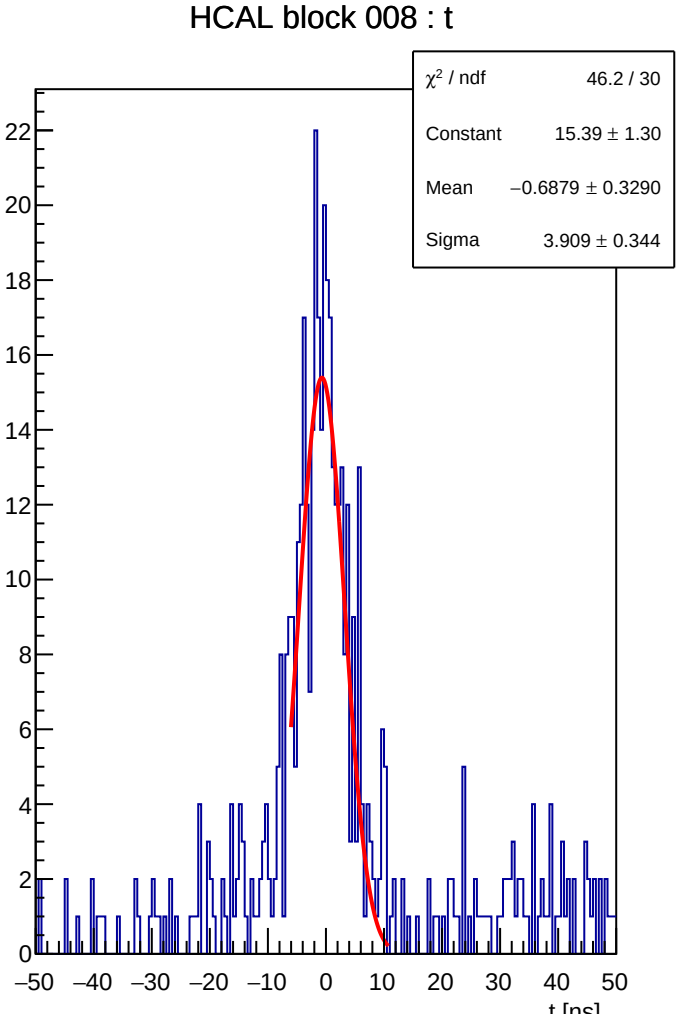

HCAL block 005 : t tw corr
χ² / ndf 15.66 / 25
Constant 5.855 ± 0.771
Mean −1.12 ± 0.52
Sigma 4.216 ± 0.612
0
2
4
6
8
10
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

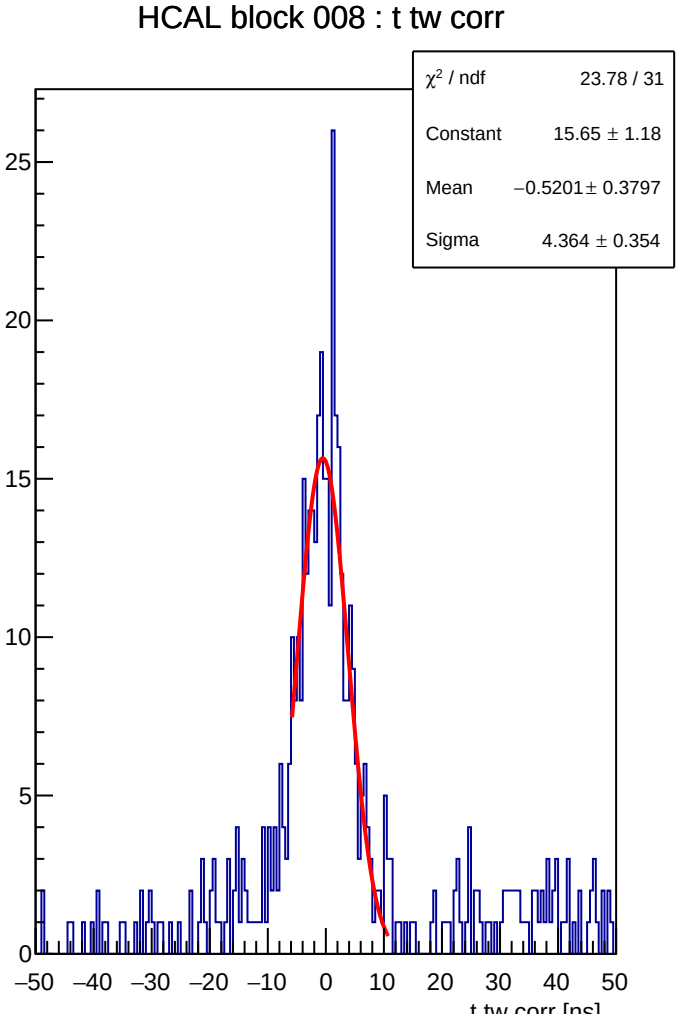

HCAL block 006 : t
χ² / ndf 50.33 / 26
Constant 9.886 ± 1.000
Mean −0.3012 ± 0.3347
Sigma 3.812 ± 0.351
t [ns]

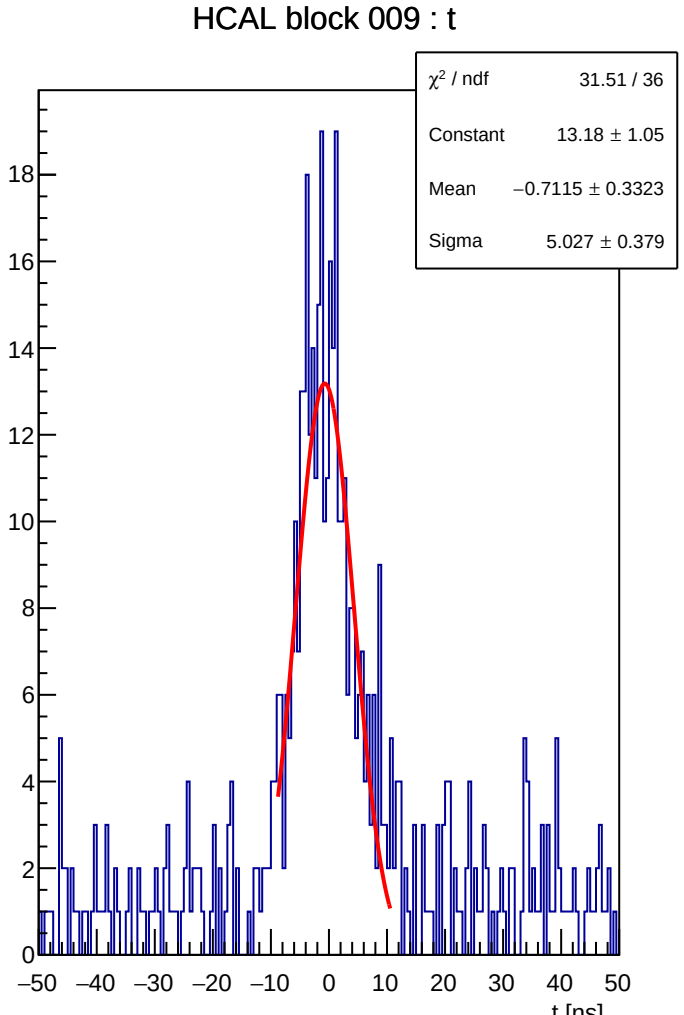

HCAL block 006 : t tw corr
χ² / ndf 30.97 / 26
Constant 11.8 ± 1.1
Mean −0.7318 ± 0.2976
Sigma 3.578 ± 0.283
t tw corr [ns]

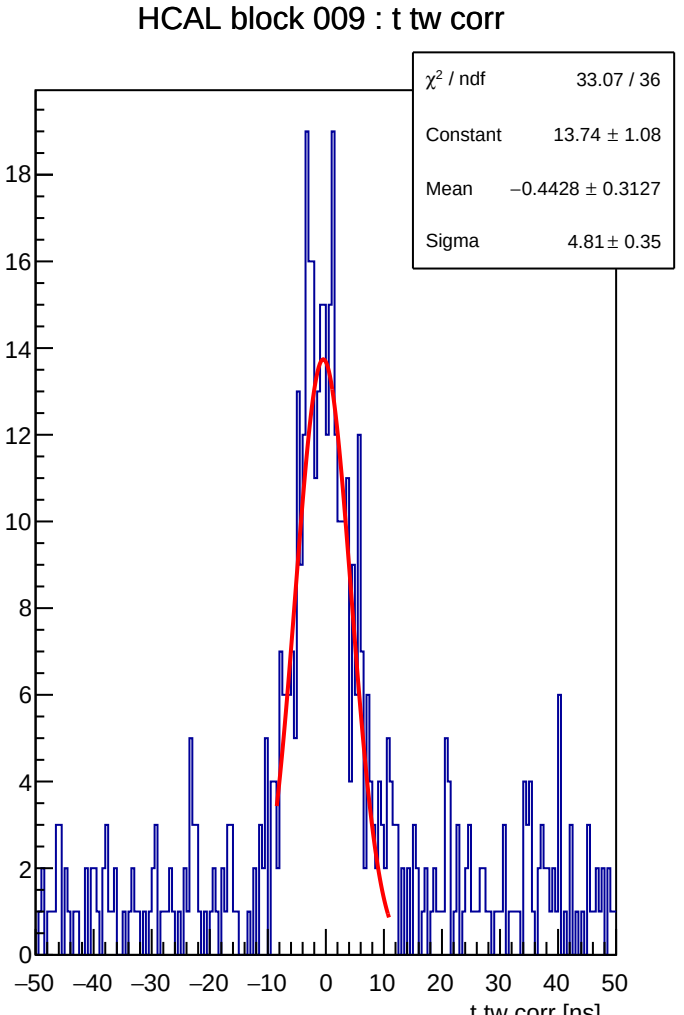

HCAL block 007 : t
χ² / ndf 26.78 / 28
Constant 12.24 ± 0.99
Mean −1.2 ± 0.4
Sigma 4.634 ± 0.399
t [ns]

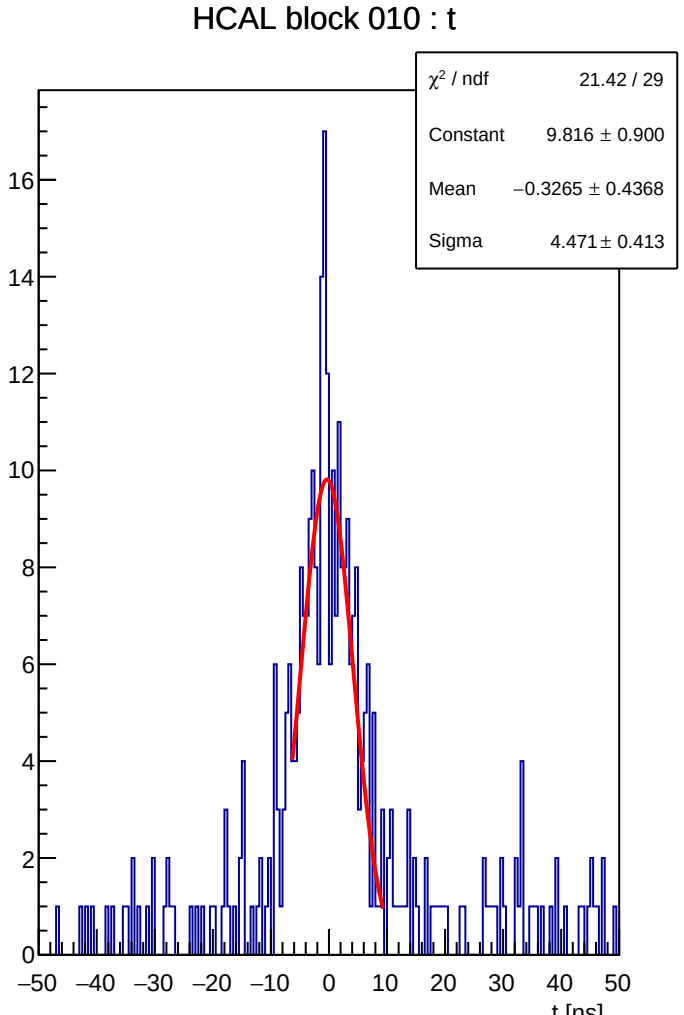

HCAL block 007 : t tw corr
χ² / ndf 25.35 / 30
Constant 13.27 ± 1.07
Mean −0.9659 ± 0.3471
Sigma 4.099 ± 0.298
t tw corr [ns]

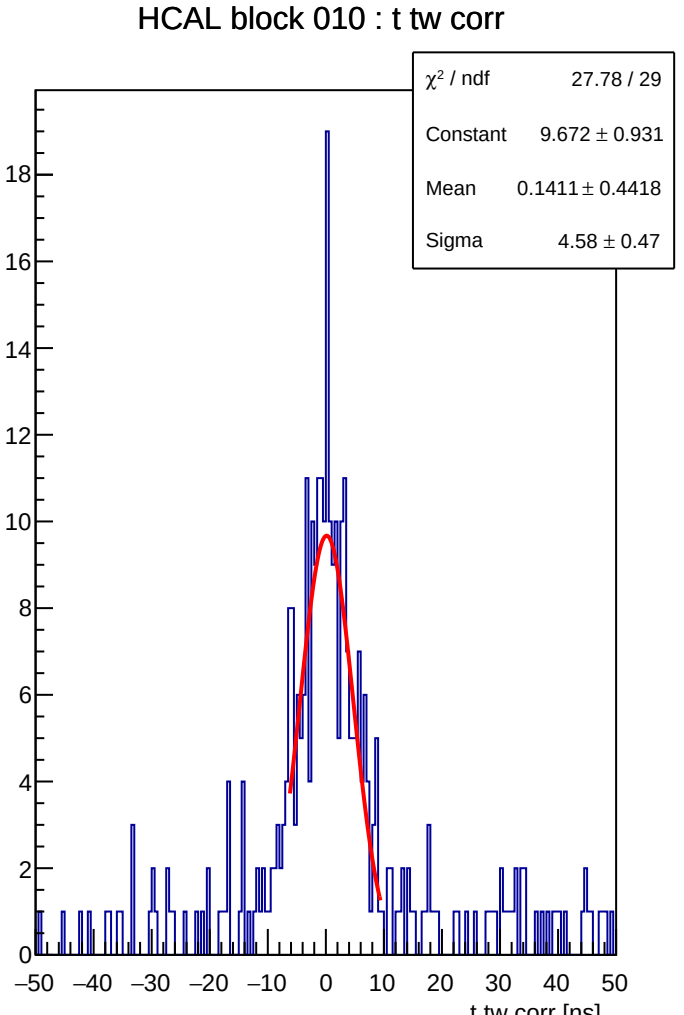

HCAL block 008 : t
χ² / ndf 46.2 / 30
Constant 15.39 ± 1.30
Mean −0.6879 ± 0.3290
Sigma 3.909 ± 0.344
t [ns]

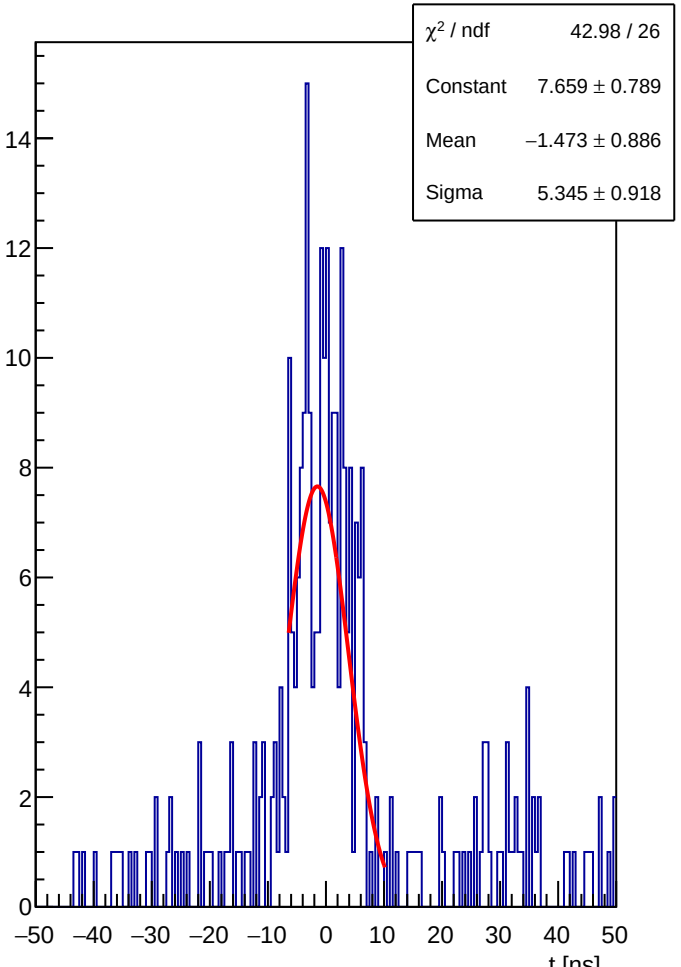

HCAL block 008 : t tw corr
χ² / ndf 23.78 / 31
Constant 15.65 ± 1.18
Mean −0.5201± 0.3797
Sigma 4.364 ± 0.354
t tw corr [ns]

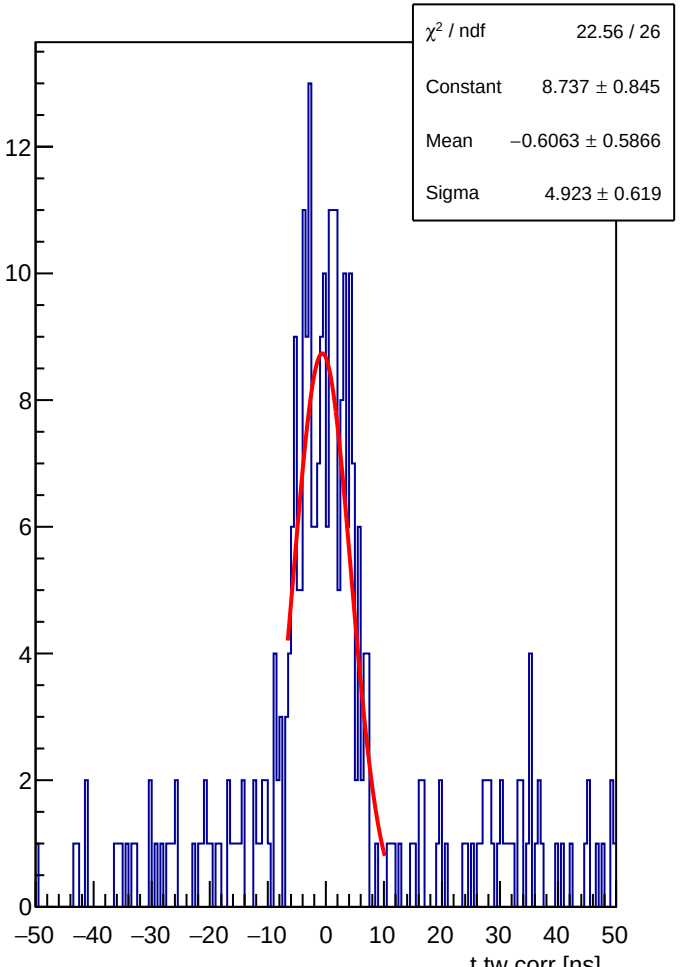

HCAL block 009 : t
χ² / ndf 31.51 / 36
Constant 13.18 ± 1.05
Mean −0.7115 ± 0.3323
Sigma 5.027 ± 0.379
t [ns]

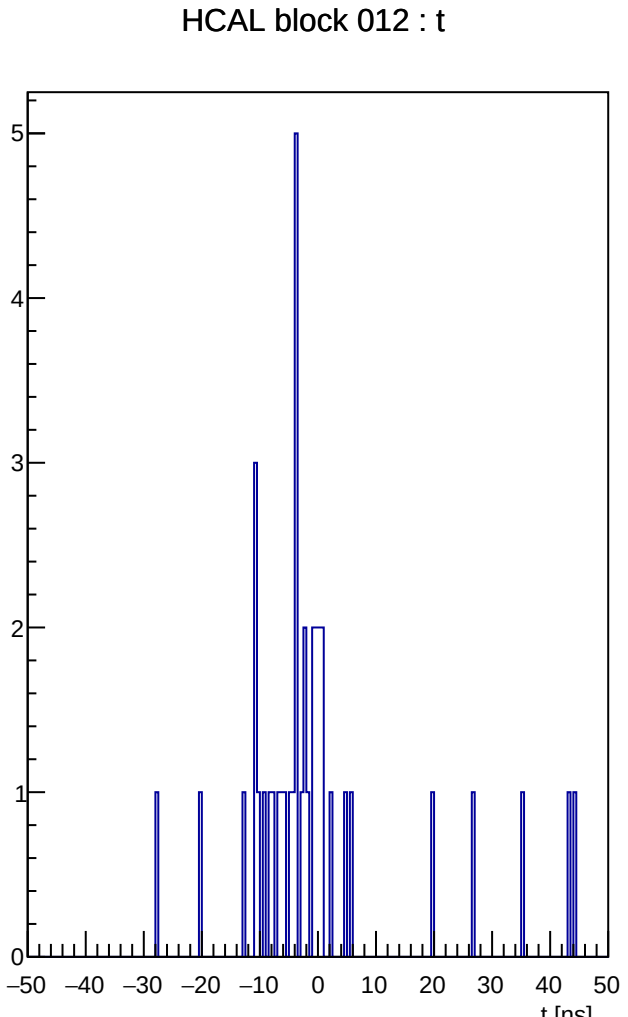

HCAL block 009 : t tw corr
χ² / ndf 33.07 / 36
Constant 13.74 ± 1.08
Mean −0.4428 ± 0.3127
Sigma 4.81 ± 0.35
t tw corr [ns]

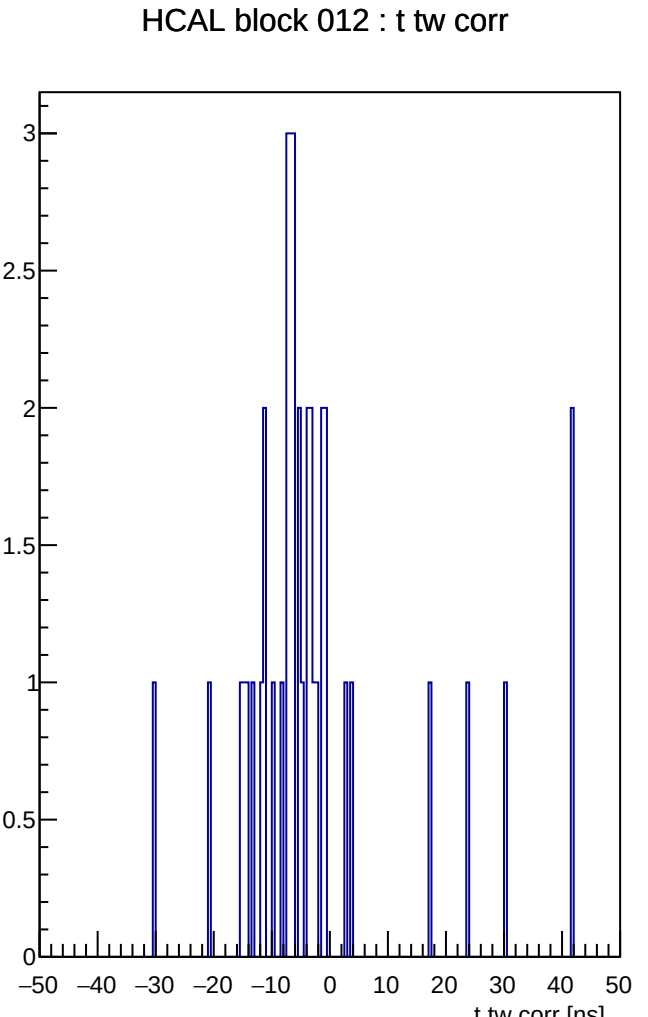

HCAL block 010 : t
χ² / ndf 21.42 / 29
Constant 9.816 ± 0.900
Mean −0.3265 ± 0.4368
Sigma 4.471 ± 0.413
t [ns]

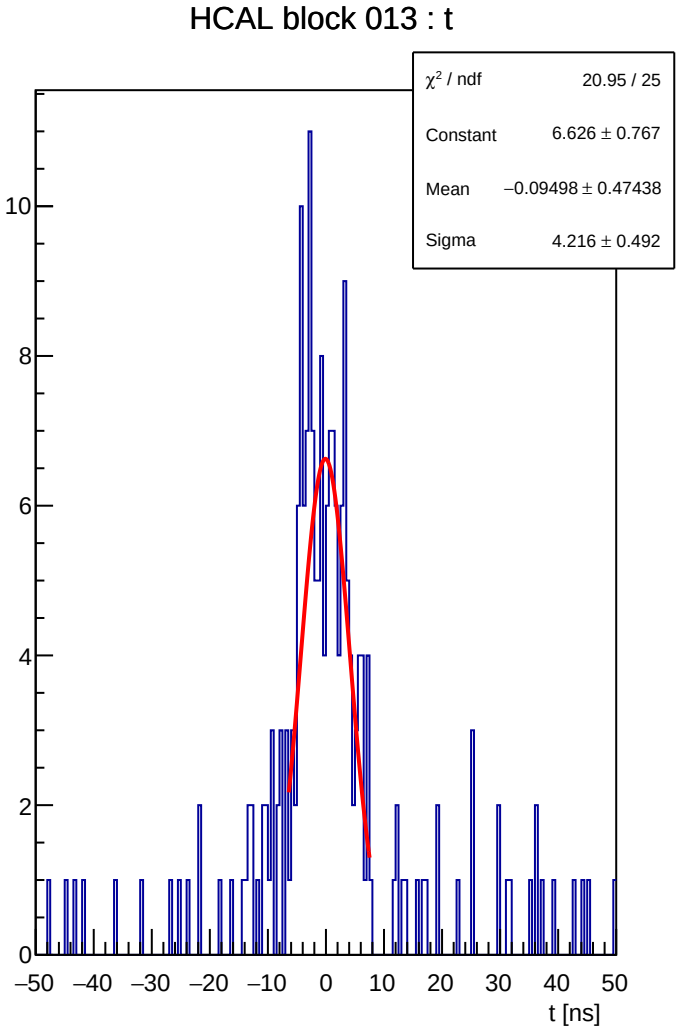

HCAL block 010 : t tw corr
χ² / ndf 27.78 / 29
Constant 9.672 ± 0.931
Mean 0.1411 ± 0.4418
Sigma 4.58 ± 0.47
t tw corr [ns]

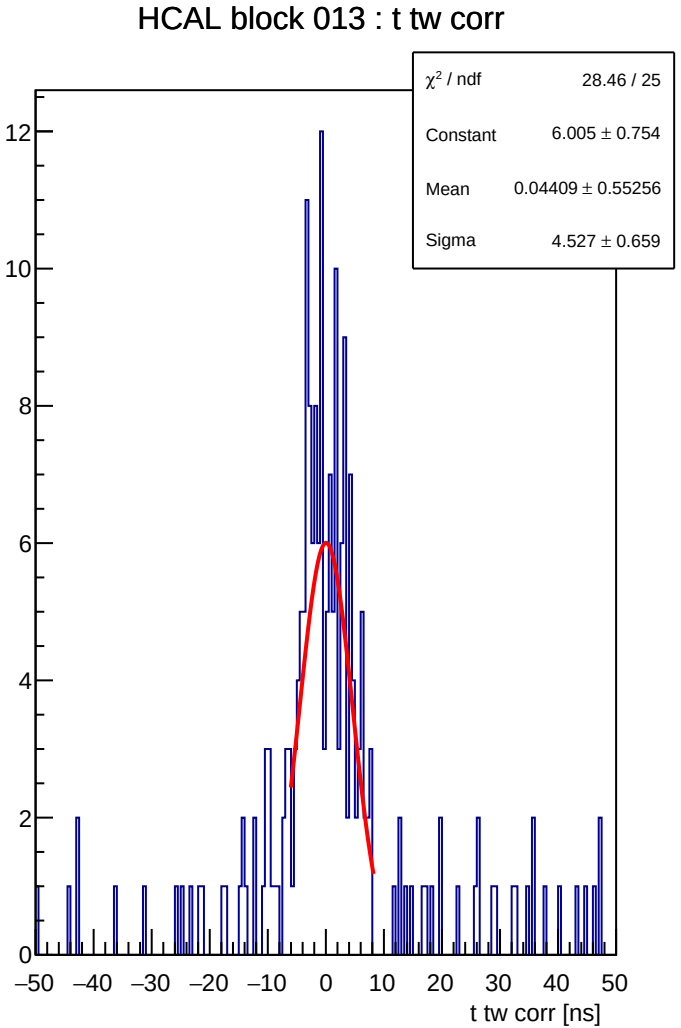

HCAL block 011 : t
χ² / ndf 42.98 / 26
Constant 7.659 ± 0.789
Mean −1.473 ± 0.886
Sigma 5.345 ± 0.918
0
2
4
6
8
10
12
14
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

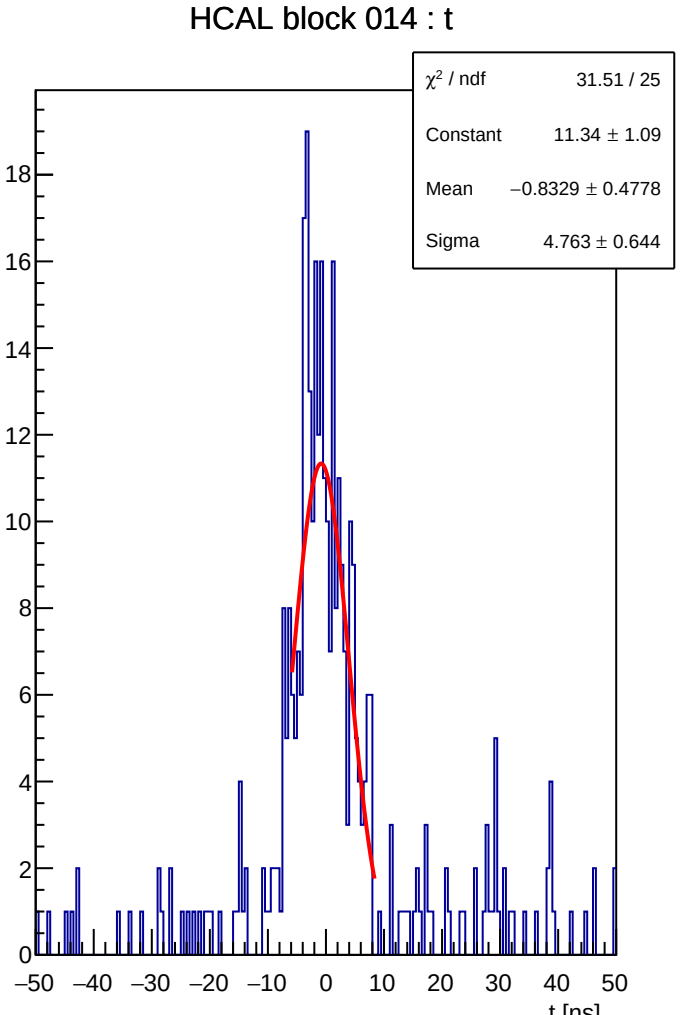

HCAL block 011 : t tw corr
χ² / ndf 22.56 / 26
Constant 8.737 ± 0.845
Mean −0.6063 ± 0.5866
Sigma 4.923 ± 0.619
0
2
4
6
8
10
12
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

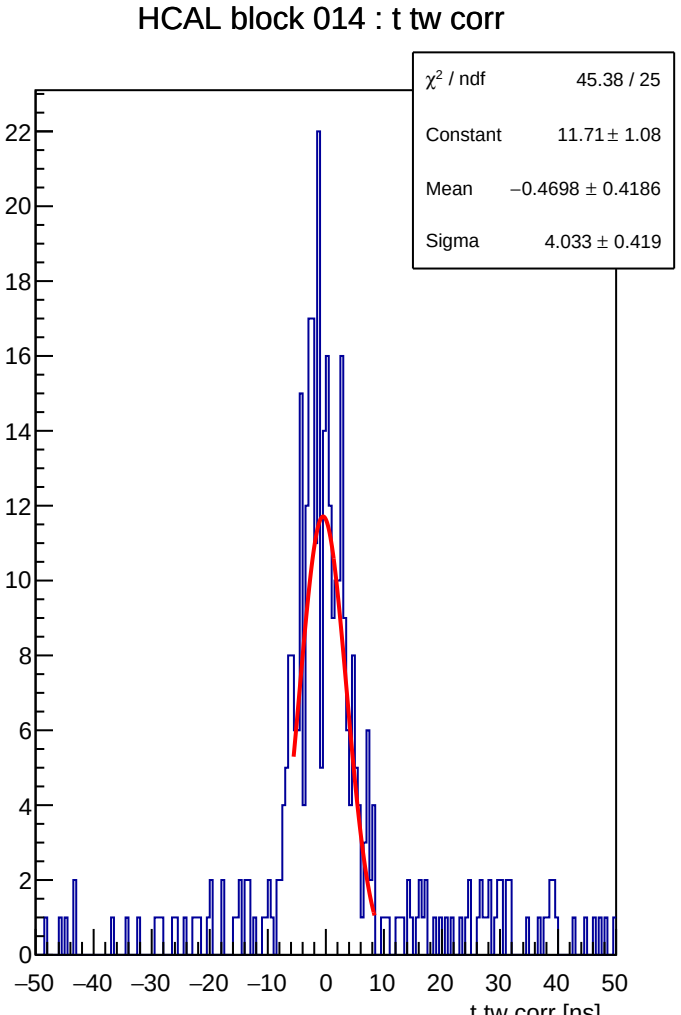

HCAL block 012 : t
5
4
3
2
1
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

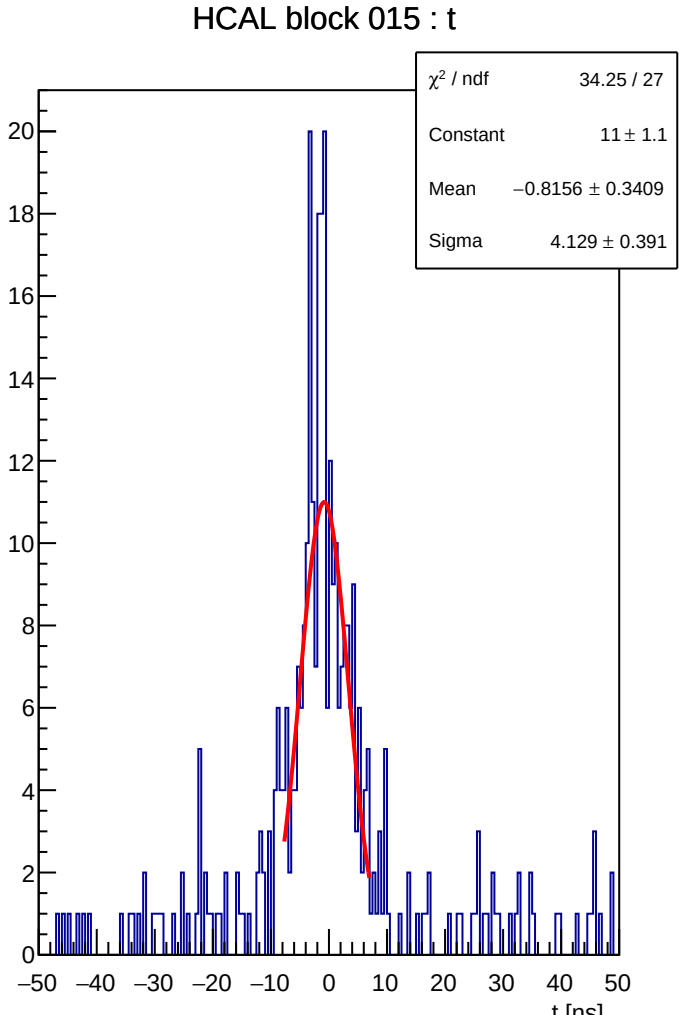

HCAL block 012 : t tw corr
3
2.5
2
1.5
1
0.5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

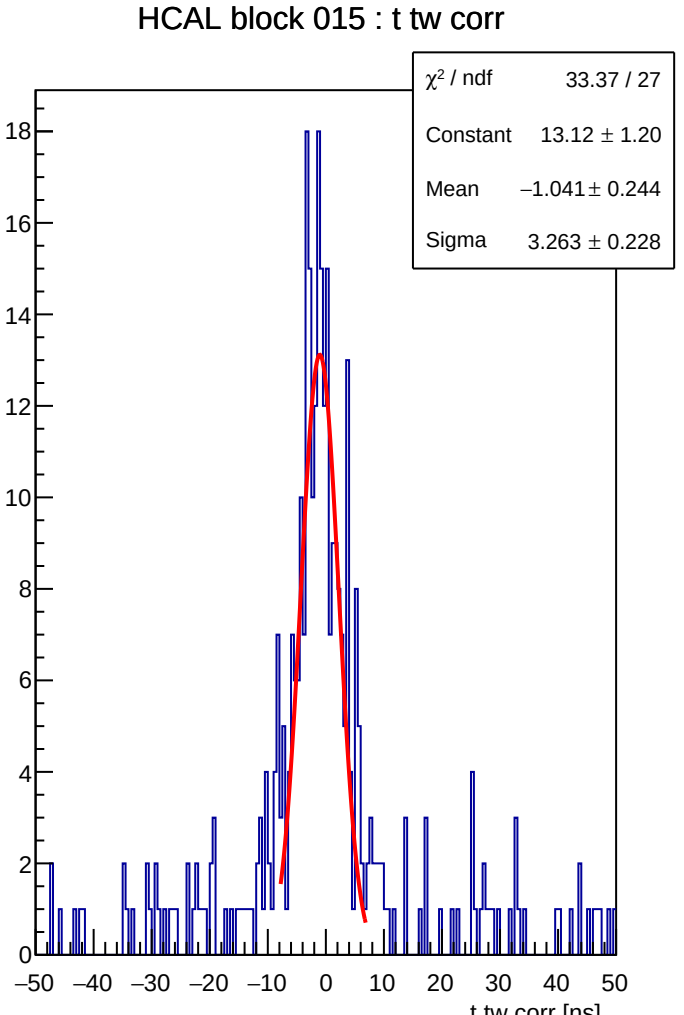

HCAL block 013 : t
χ² / ndf 20.95 / 25
Constant 6.626 ± 0.767
Mean −0.09498 ± 0.47438
Sigma 4.216 ± 0.492
t [ns]

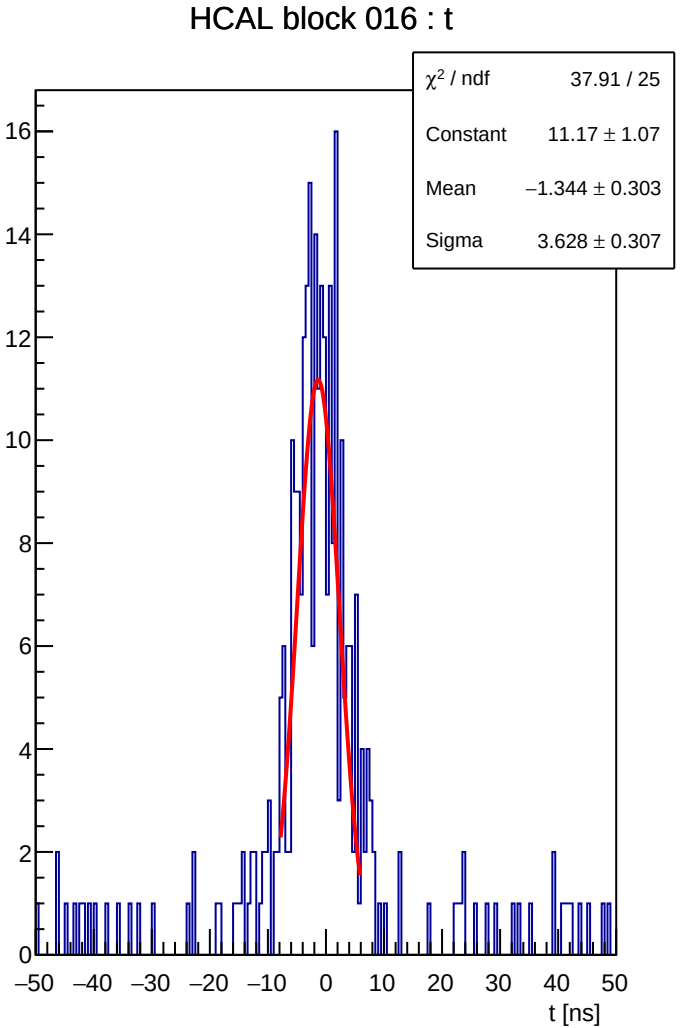

HCAL block 013 : t tw corr
χ² / ndf 28.46 / 25
Constant 6.005 ± 0.754
Mean 0.04409 ± 0.55256
Sigma 4.527 ± 0.659
t tw corr [ns]

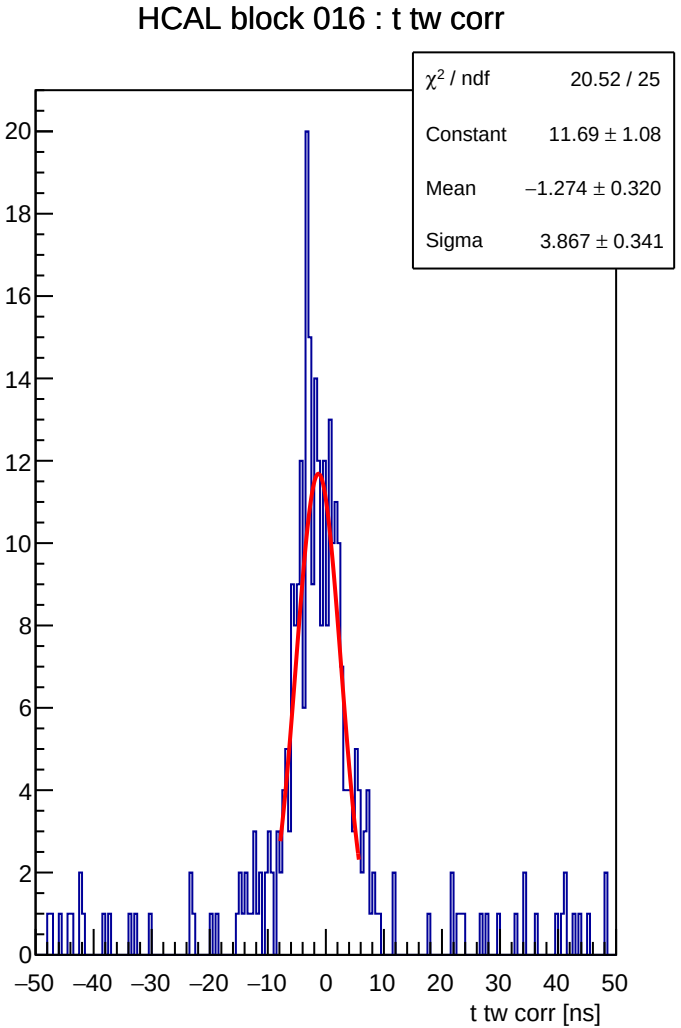

HCAL block 014 : t
χ² / ndf 31.51 / 25
Constant 11.34 ± 1.09
Mean −0.8329 ± 0.4778
Sigma 4.763 ± 0.644
t [ns]

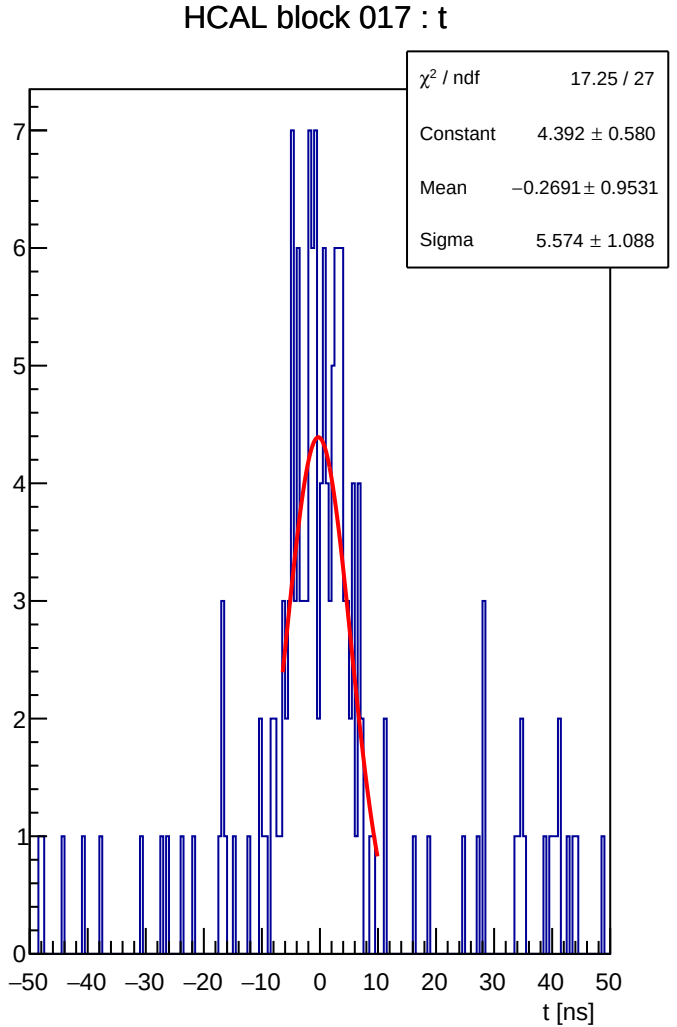

HCAL block 014 : t tw corr
χ² / ndf 45.38 / 25
Constant 11.71 ± 1.08
Mean −0.4698 ± 0.4186
Sigma 4.033 ± 0.419
t tw corr [ns]

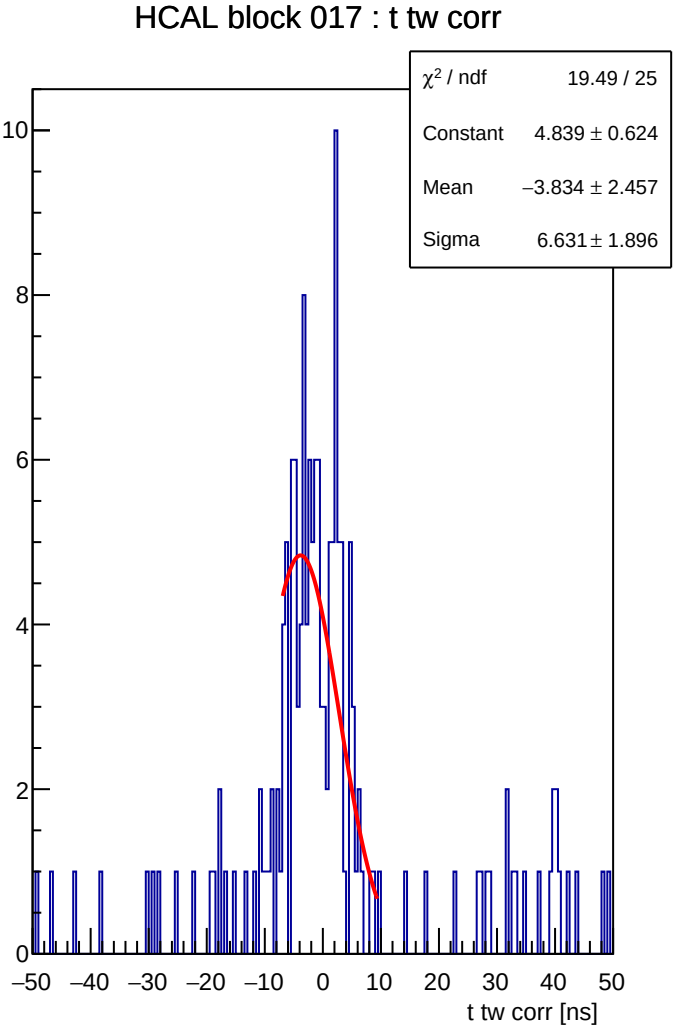

HCAL block 015 : t
χ² / ndf 34.25 / 27
Constant 11 ± 1.1
Mean −0.8156 ± 0.3409
Sigma 4.129 ± 0.391
t [ns]

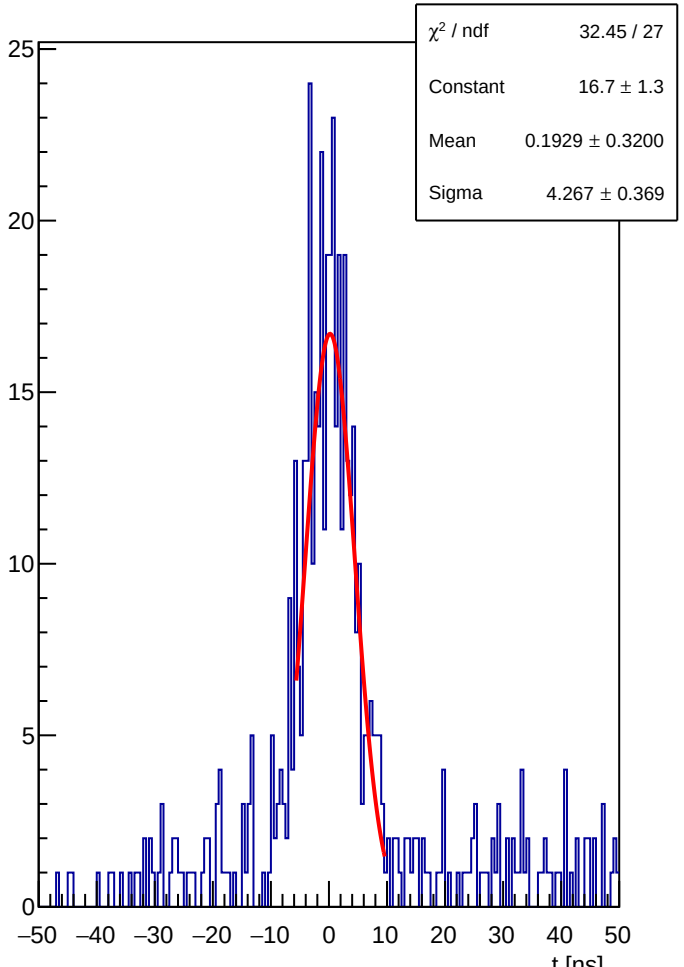

HCAL block 015 : t tw corr
χ² / ndf 33.37 / 27
Constant 13.12 ± 1.20
Mean −1.041 ± 0.244
Sigma 3.263 ± 0.228
t tw corr [ns]

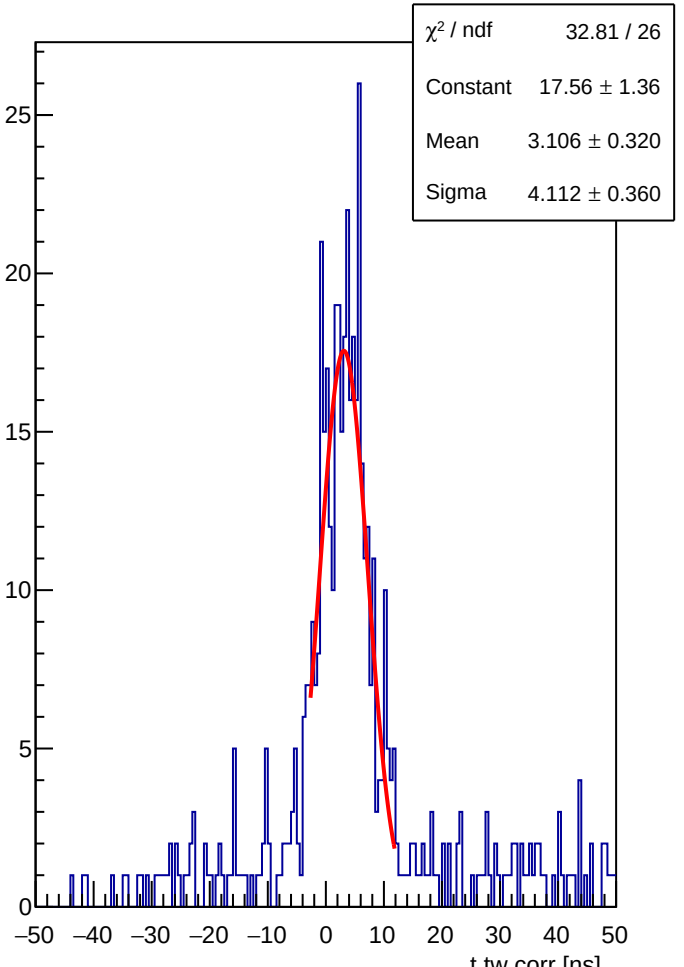

HCAL block 016 : t
χ² / ndf 37.91 / 25
Constant 11.17 ± 1.07
Mean −1.344 ± 0.303
Sigma 3.628 ± 0.307
t [ns]

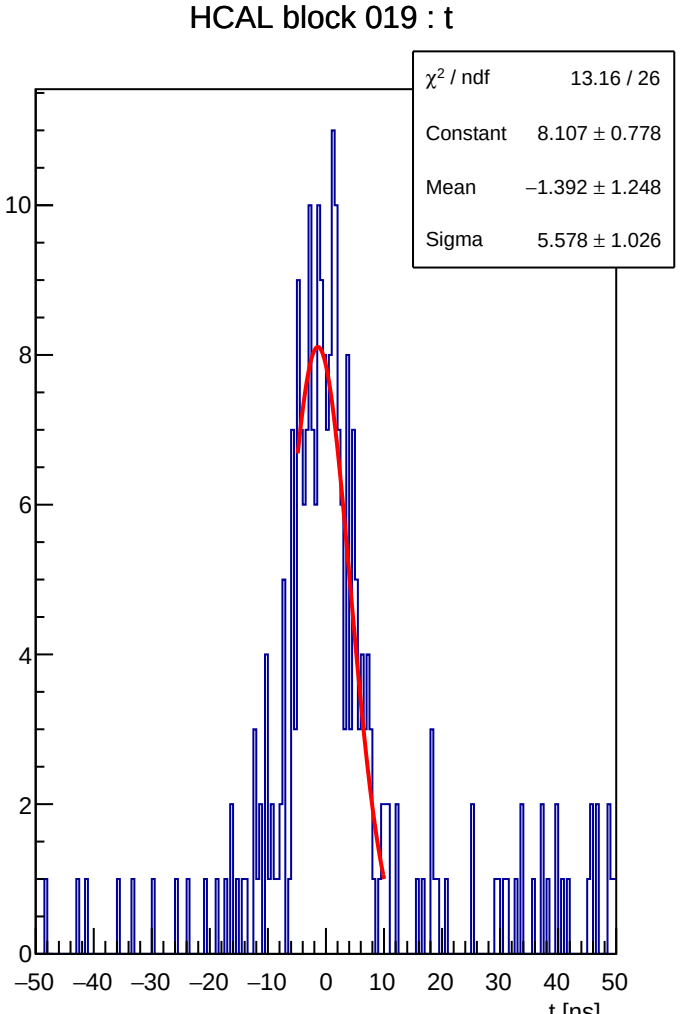

HCAL block 016 : t tw corr
χ² / ndf 20.52 / 25
Constant 11.69 ± 1.08
Mean −1.274 ± 0.320
Sigma 3.867 ± 0.341
t tw corr [ns]


HCAL block 017 : t
χ² / ndf 17.25 / 27
Constant 4.392 ± 0.580
Mean −0.2691 ± 0.9531
Sigma 5.574 ± 1.088
t [ns]


HCAL block 017 : t tw corr
χ² / ndf 19.49 / 25
Constant 4.839 ± 0.624
Mean −3.834 ± 2.457
Sigma 6.631 ± 1.896
t tw corr [ns]


HCAL block 018 : t
χ² / ndf 32.45 / 27
Constant 16.7 ± 1.3
Mean 0.1929 ± 0.3200
Sigma 4.267 ± 0.369
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]


HCAL block 018 : t tw corr
χ² / ndf 32.81 / 26
Constant 17.56 ± 1.36
Mean 3.106 ± 0.320
Sigma 4.112 ± 0.360
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]


HCAL block 019 : t
χ² / ndf 13.16 / 26
Constant 8.107 ± 0.778
Mean −1.392 ± 1.248
Sigma 5.578 ± 1.026
0
2
4
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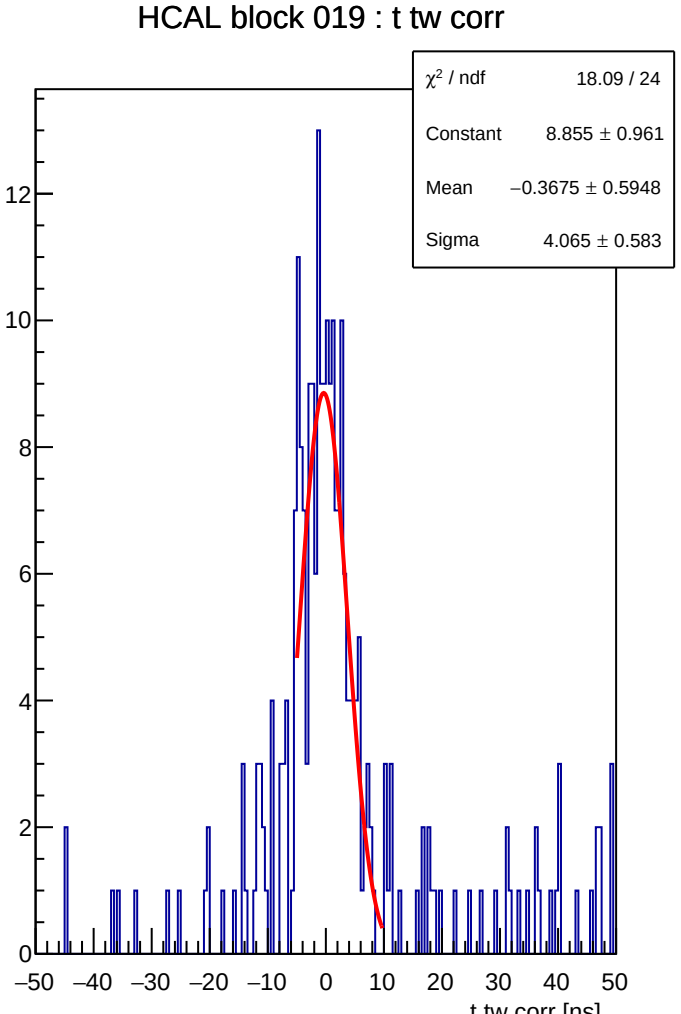
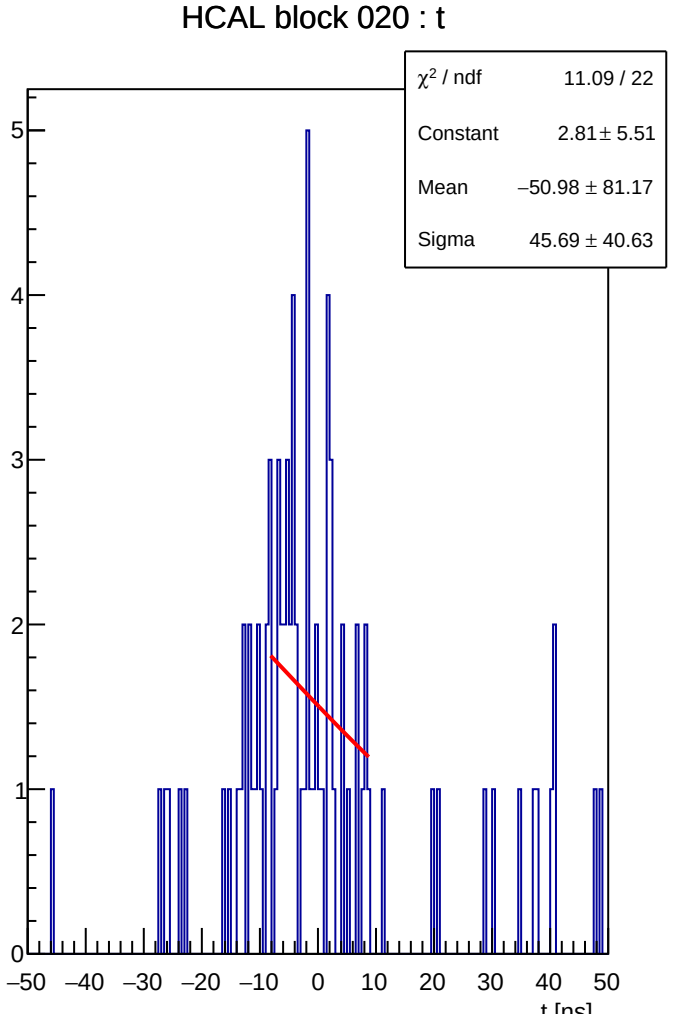
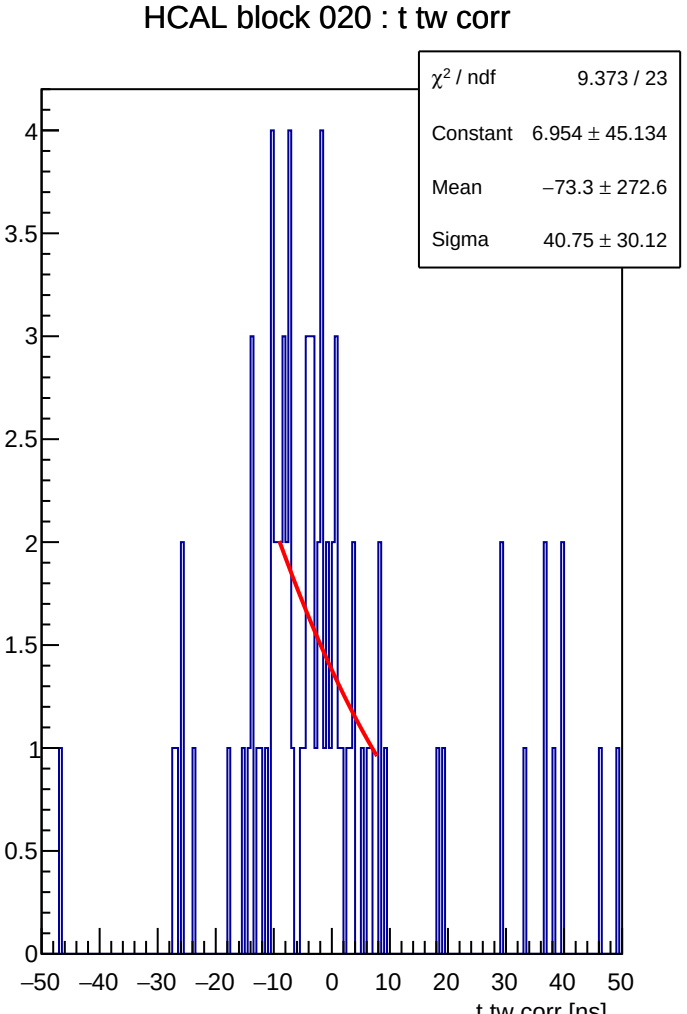
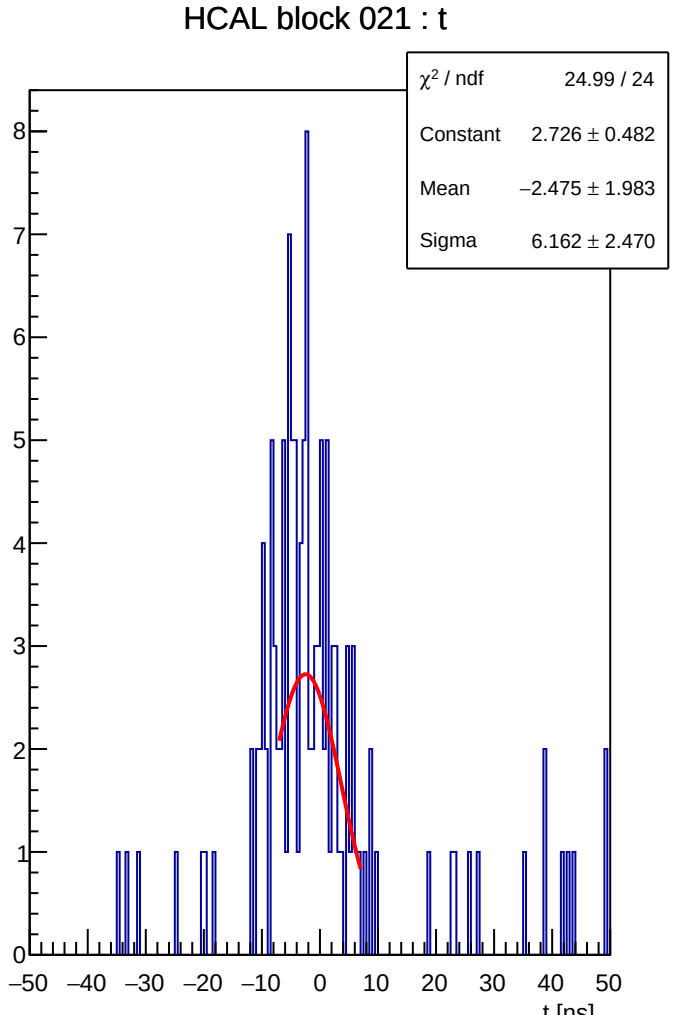
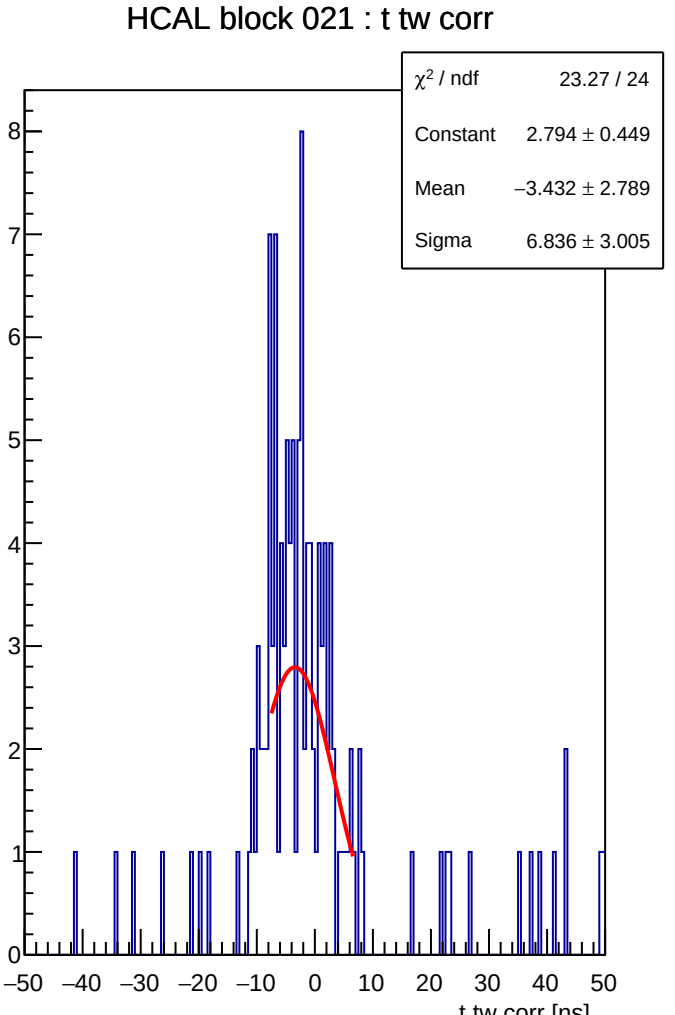
8
10
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

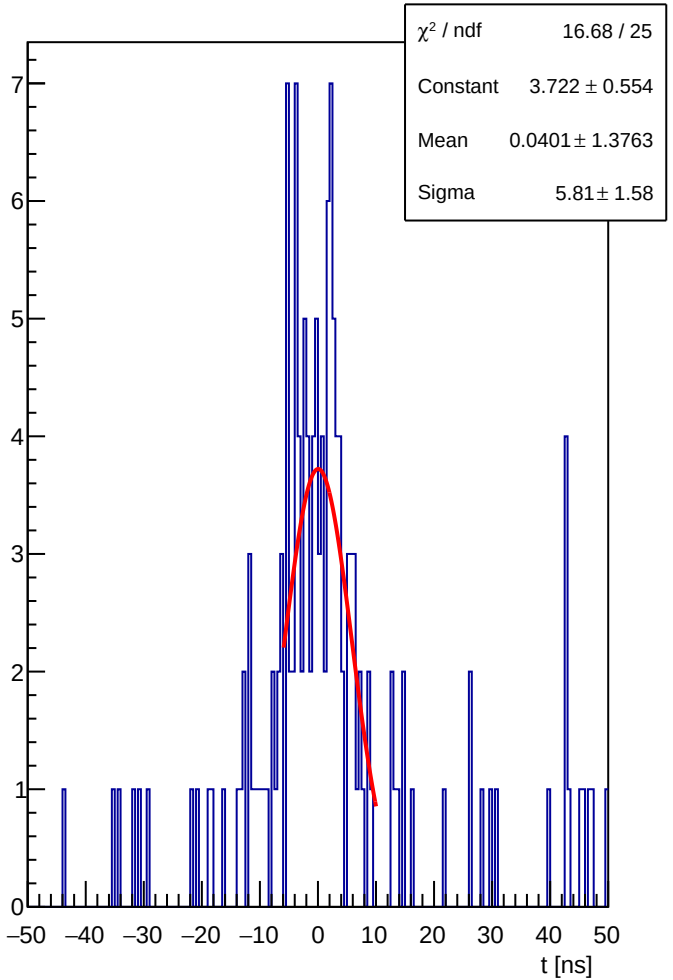

HCAL block 019 : t tw corr
χ² / ndf 18.09 / 24
Constant 8.855 ± 0.961
Mean −0.3675 ± 0.5948
Sigma 4.065 ± 0.583
0
2
4
6
8
10
12
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

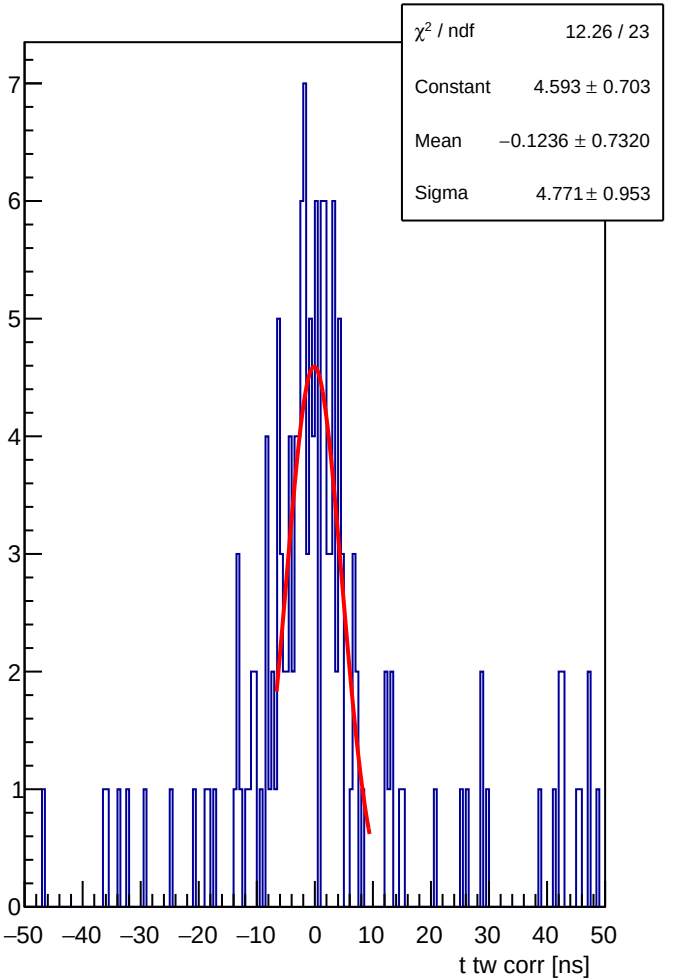

HCAL block 020 : t
χ² / ndf 11.09 / 22
Constant 2.81 ± 5.51
Mean −50.98 ± 81.17
Sigma 45.69 ± 40.63
t [ns]

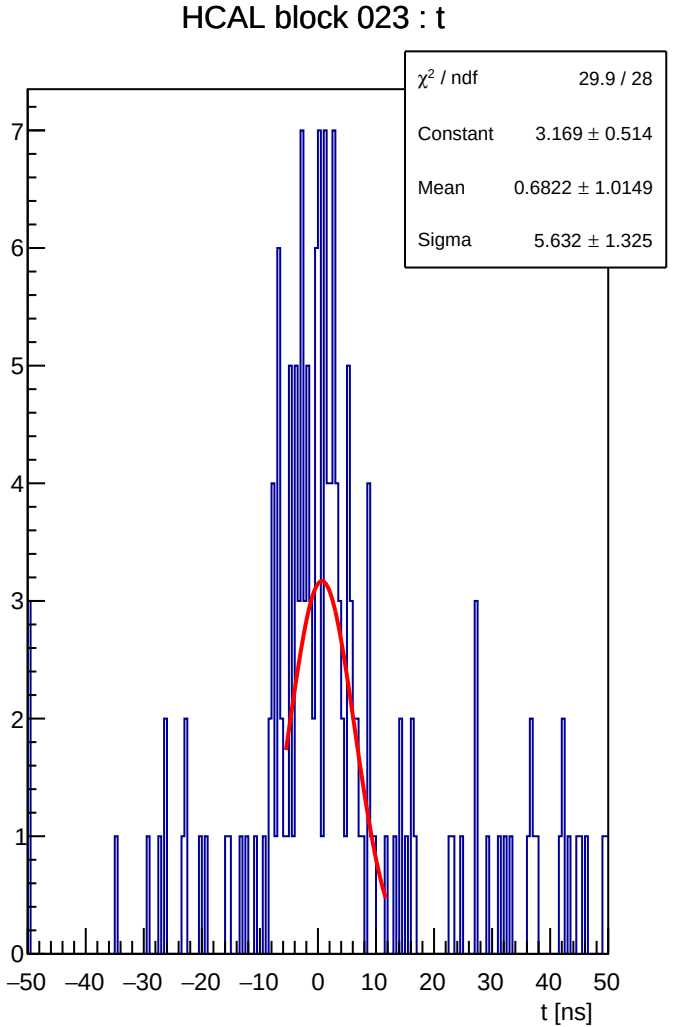

HCAL block 020 : t tw corr
χ² / ndf 9.373 / 23
Constant 6.954 ± 45.134
Mean −73.3 ± 272.6
Sigma 40.75 ± 30.12
t tw corr [ns]

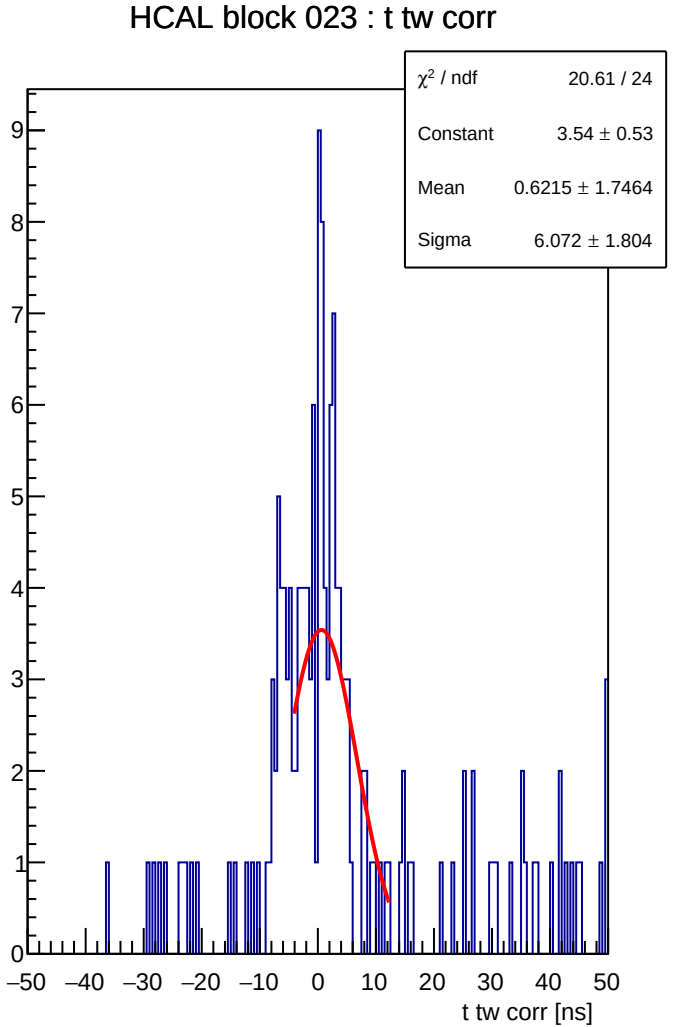

HCAL block 021 : t
χ² / ndf 24.99 / 24
Constant 2.726 ± 0.482
Mean −2.475 ± 1.983
Sigma 6.162 ± 2.470
t [ns]

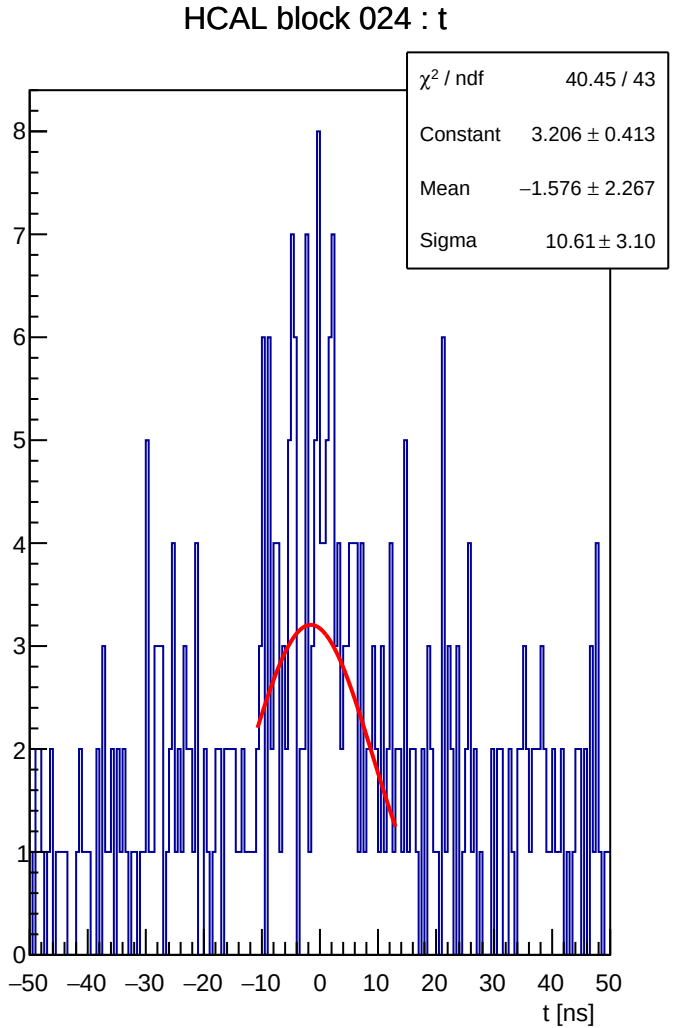

HCAL block 021 : t tw corr
χ² / ndf 23.27 / 24
Constant 2.794 ± 0.449
Mean −3.432 ± 2.789
Sigma 6.836 ± 3.005
t tw corr [ns]

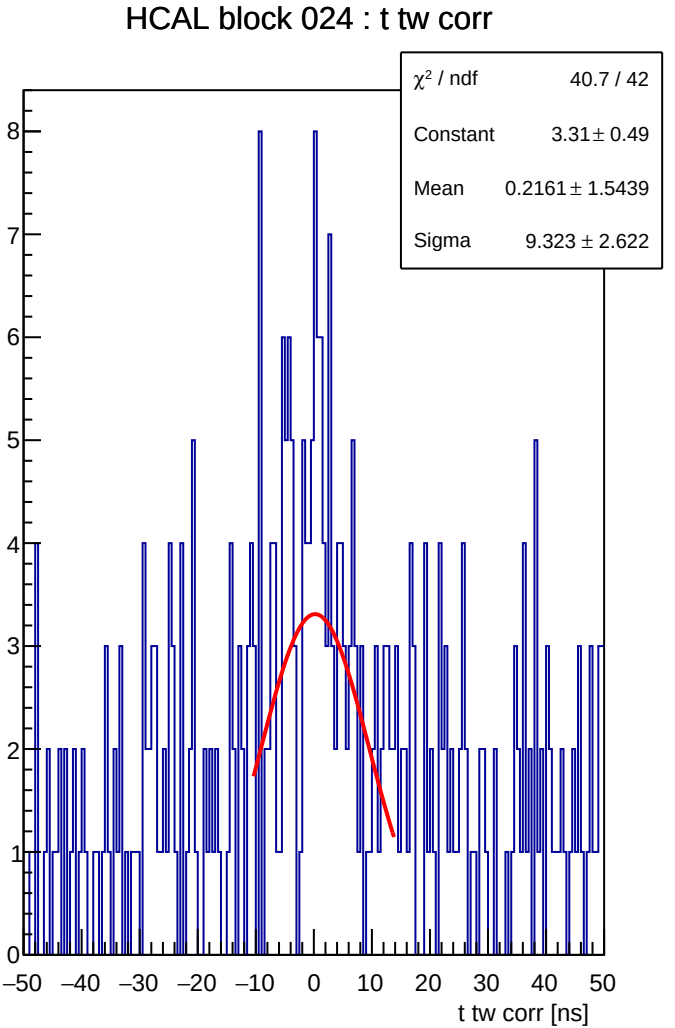

HCAL block 022 : t
χ² / ndf 16.68 / 25
Constant 3.722 ± 0.554
Mean 0.0401 ± 1.3763
Sigma 5.81 ± 1.58
t [ns]

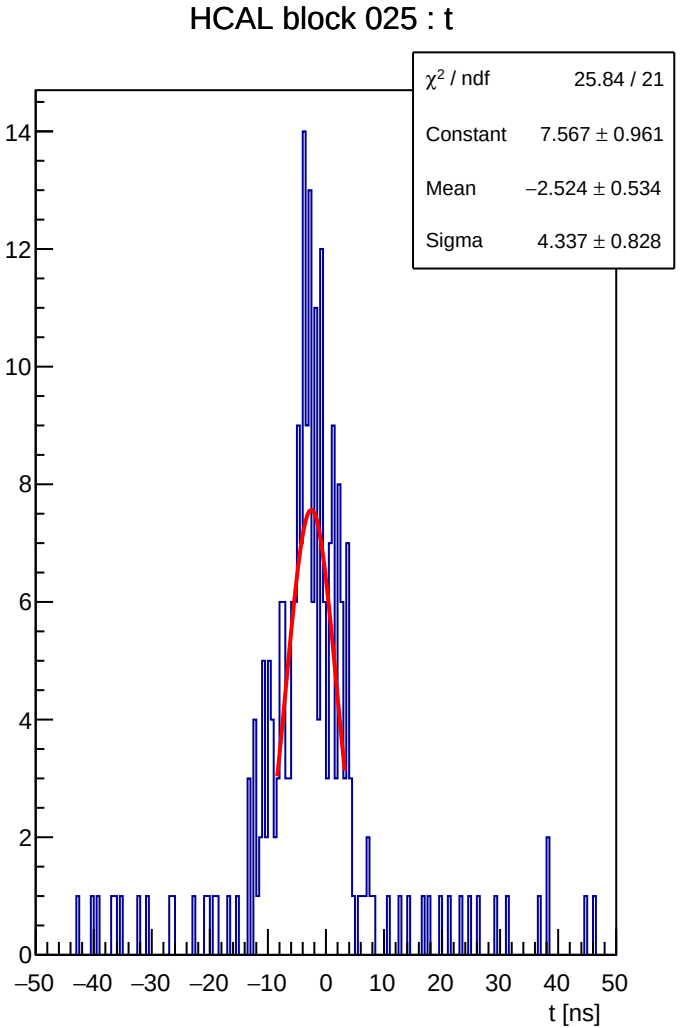

HCAL block 022 : t tw corr
χ² / ndf 12.26 / 23
Constant 4.593 ± 0.703
Mean −0.1236 ± 0.7320
Sigma 4.771 ± 0.953
t tw corr [ns]

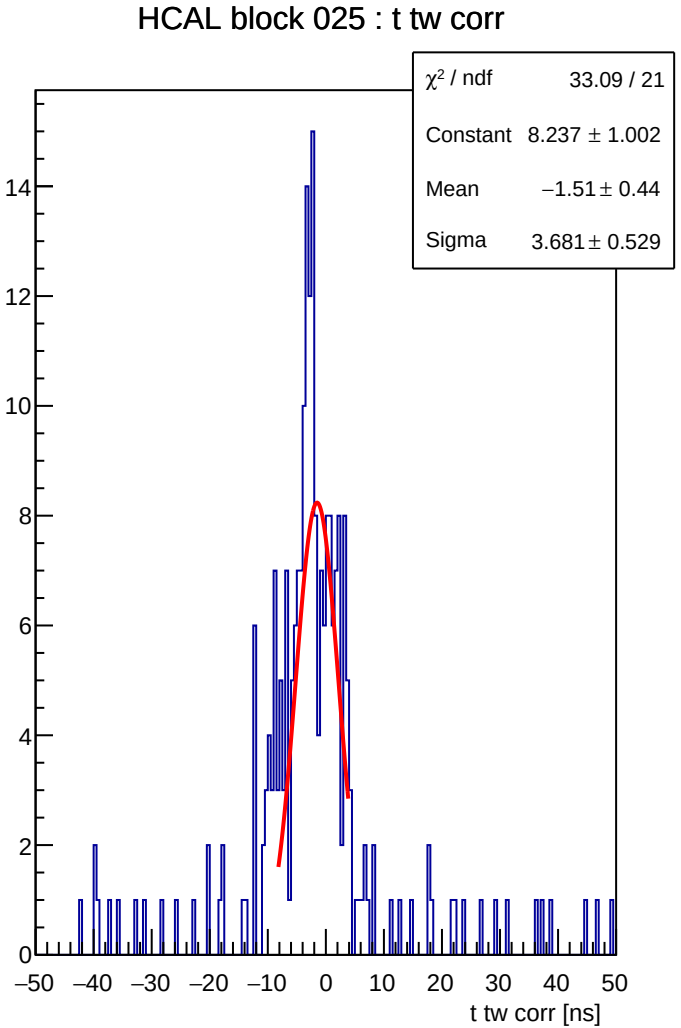

HCAL block 023 : t
χ² / ndf 29.9 / 28
Constant 3.169 ± 0.514
Mean 0.6822 ± 1.0149
Sigma 5.632 ± 1.325
t [ns]

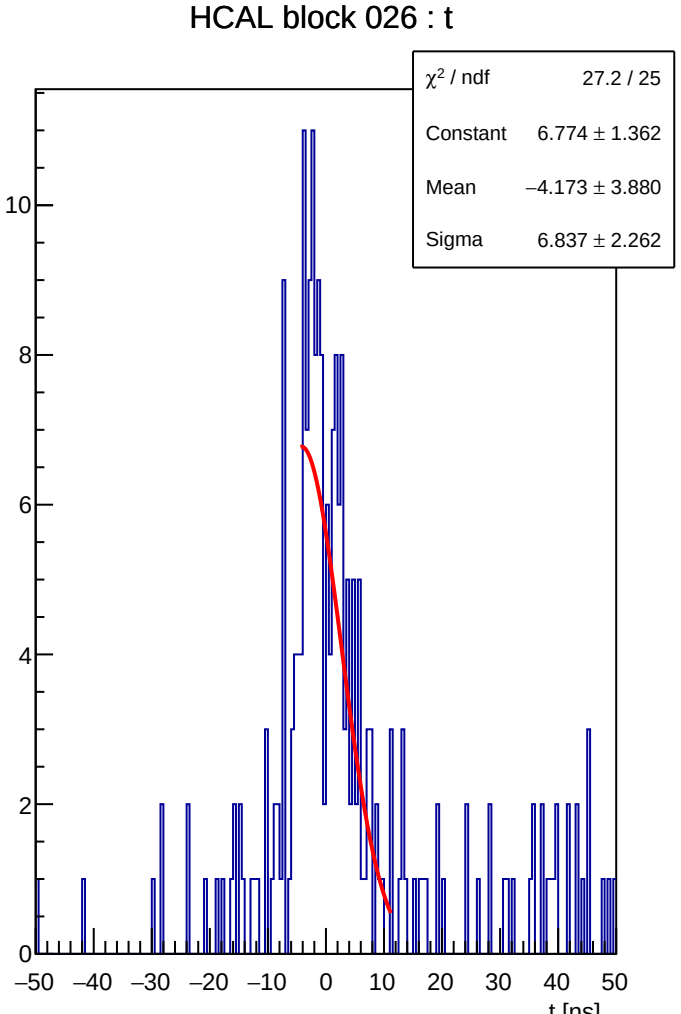

HCAL block 023 : t tw corr
χ² / ndf 20.61 / 24
Constant 3.54 ± 0.53
Mean 0.6215 ± 1.7464
Sigma 6.072 ± 1.804
t tw corr [ns]

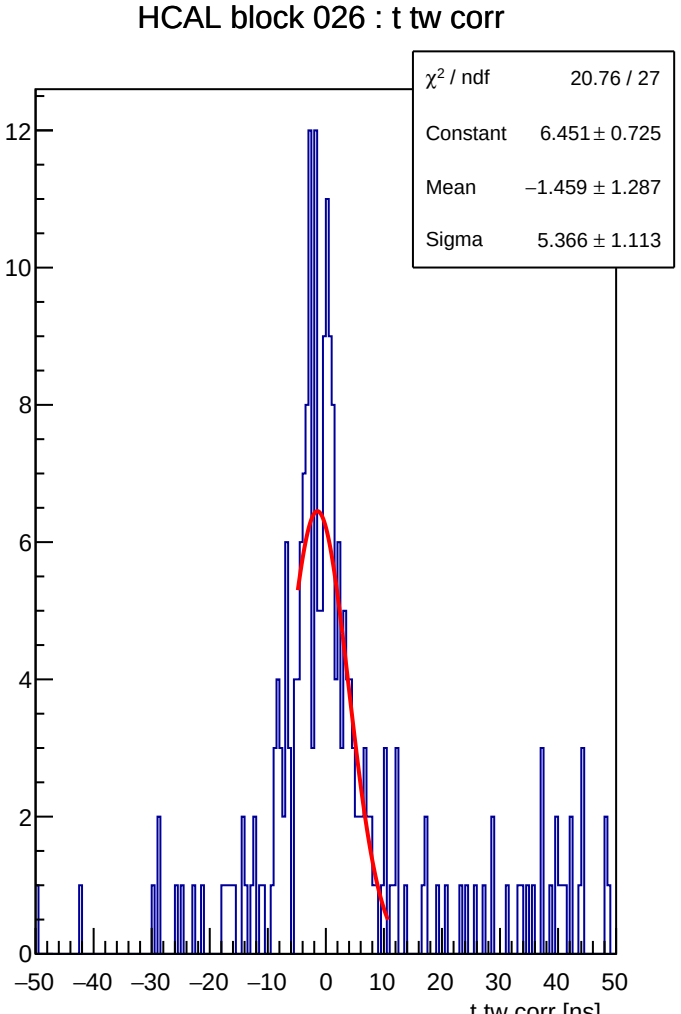

HCAL block 024 : t
χ² / ndf 40.45 / 43
Constant 3.206 ± 0.413
Mean −1.576 ± 2.267
Sigma 10.61 ± 3.10
t [ns]

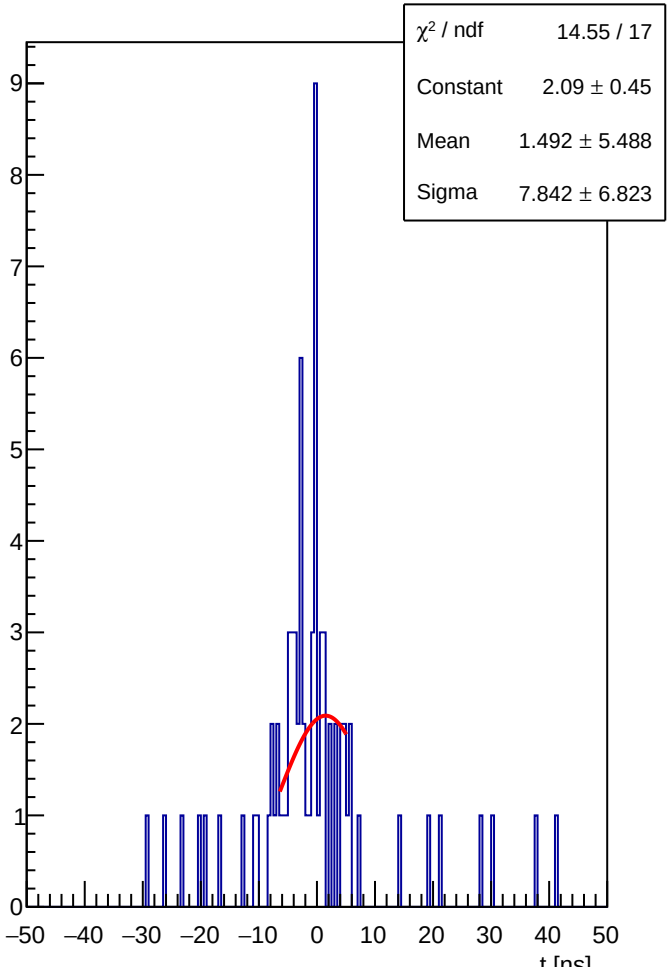

HCAL block 024 : t tw corr
χ² / ndf 40.7 / 42
Constant 3.31 ± 0.49
Mean 0.2161 ± 1.5439
Sigma 9.323 ± 2.622
t tw corr [ns]

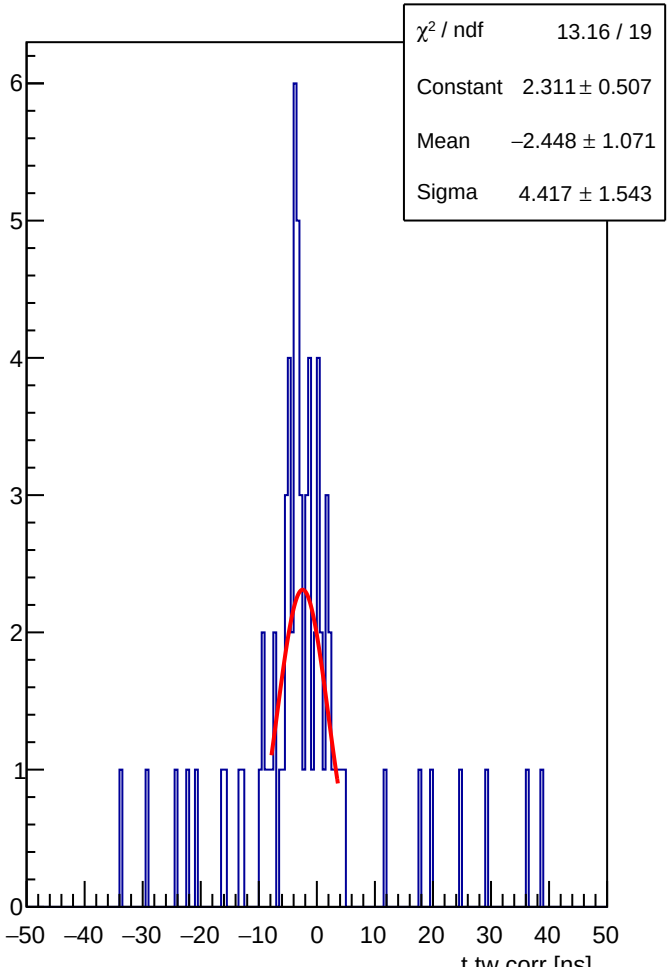

HCAL block 025 : t
χ² / ndf 25.84 / 21
Constant 7.567 ± 0.961
Mean −2.524 ± 0.534
Sigma 4.337 ± 0.828
t [ns]

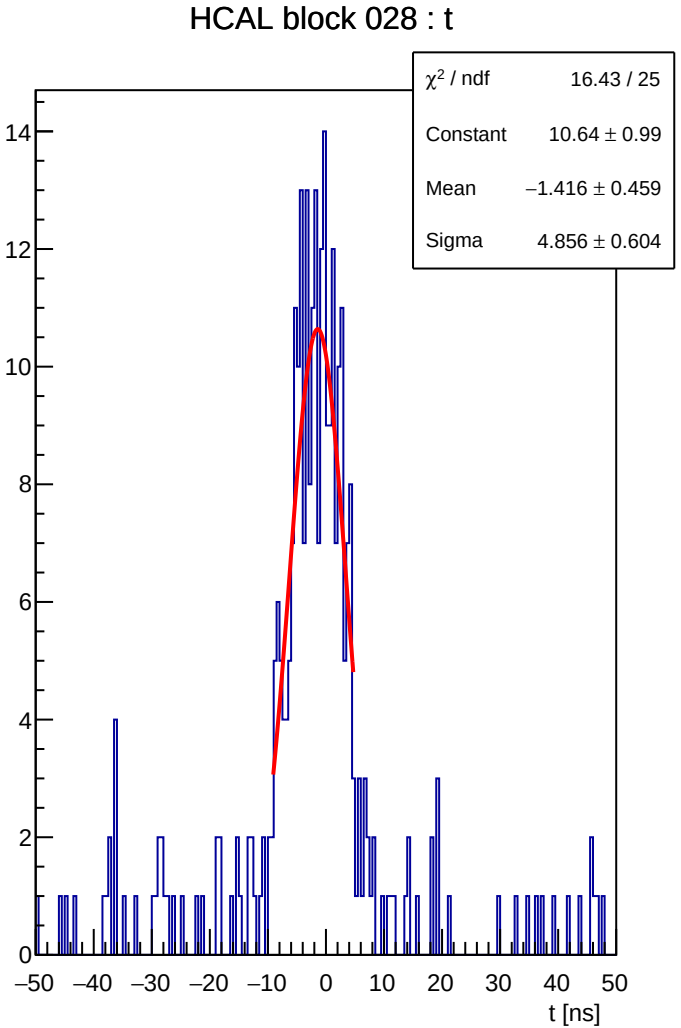

HCAL block 025 : t tw corr
χ² / ndf 33.09 / 21
Constant 8.237 ± 1.002
Mean −1.51 ± 0.44
Sigma 3.681 ± 0.529
t tw corr [ns]

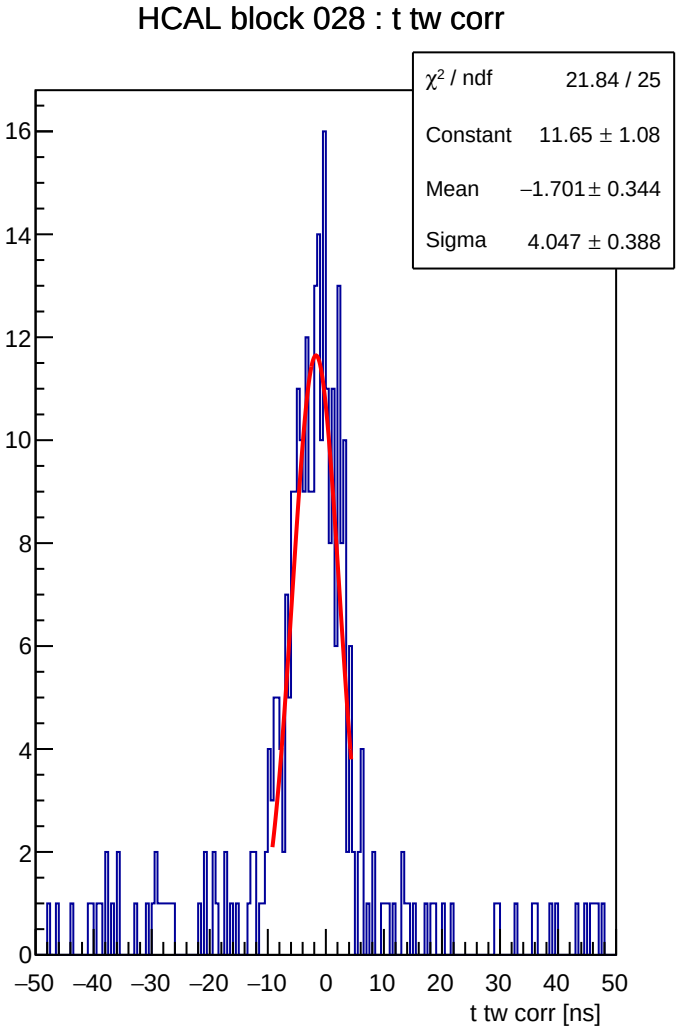

HCAL block 026 : t
χ² / ndf 27.2 / 25
Constant 6.774 ± 1.362
Mean −4.173 ± 3.880
Sigma 6.837 ± 2.262
t [ns]

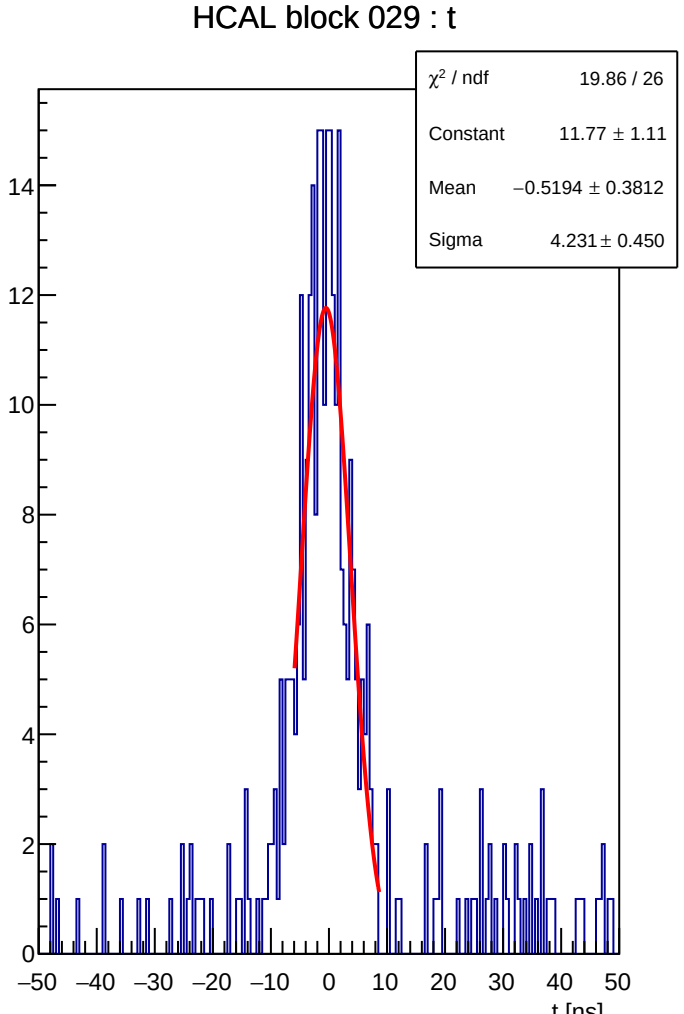

HCAL block 026 : t tw corr
χ² / ndf 20.76 / 27
Constant 6.451 ± 0.725
Mean −1.459 ± 1.287
Sigma 5.366 ± 1.113
t tw corr [ns]

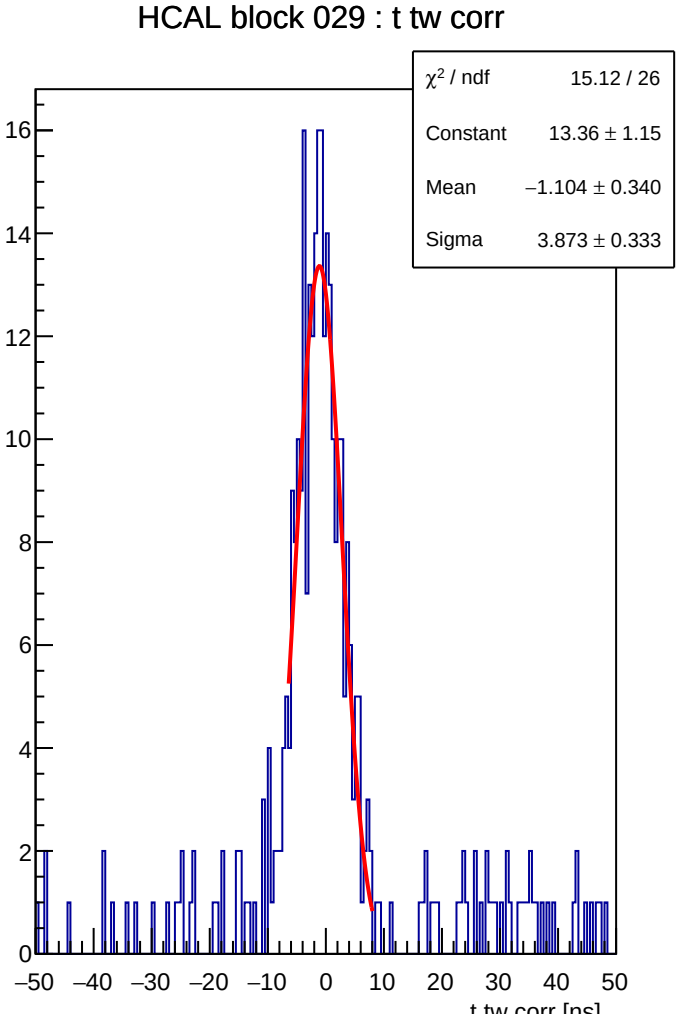

HCAL block 027 : t
χ² / ndf 14.55 / 17
Constant 2.09 ± 0.45
Mean 1.492 ± 5.488
Sigma 7.842 ± 6.823
t [ns]

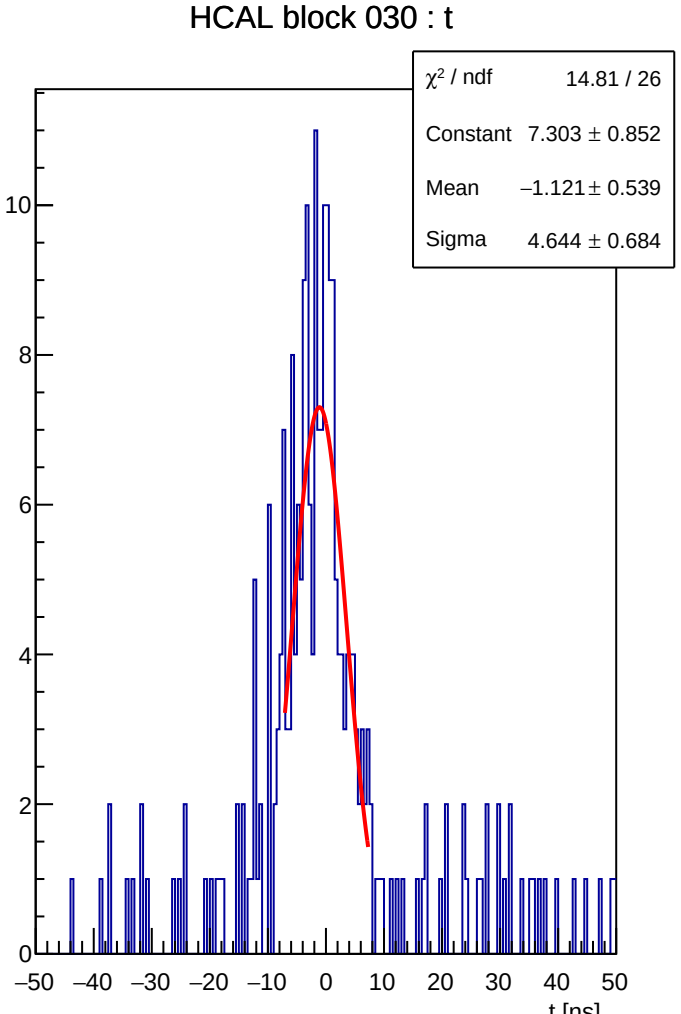

HCAL block 027 : t tw corr
χ² / ndf 13.16 / 19
Constant 2.311 ± 0.507
Mean −2.448 ± 1.071
Sigma 4.417 ± 1.543
t tw corr [ns]


HCAL block 028 : t
χ² / ndf 16.43 / 25
Constant 10.64 ± 0.99
Mean −1.416 ± 0.459
Sigma 4.856 ± 0.604
t [ns]


HCAL block 028 : t tw corr
χ² / ndf 21.84 / 25
Constant 11.65 ± 1.08
Mean −1.701 ± 0.344
Sigma 4.047 ± 0.388
t tw corr [ns]


HCAL block 029 : t
χ² / ndf 19.86 / 26
Constant 11.77 ± 1.11
Mean −0.5194 ± 0.3812
Sigma 4.231 ± 0.450
t [ns]


HCAL block 029 : t tw corr
χ² / ndf 15.12 / 26
Constant 13.36 ± 1.15
Mean −1.104 ± 0.340
Sigma 3.873 ± 0.333
t tw corr [ns]


HCAL block 030 : t
χ² / ndf 14.81 / 26
Constant 7.303 ± 0.852
Mean −1.121 ± 0.539
Sigma 4.644 ± 0.684
0
2
4
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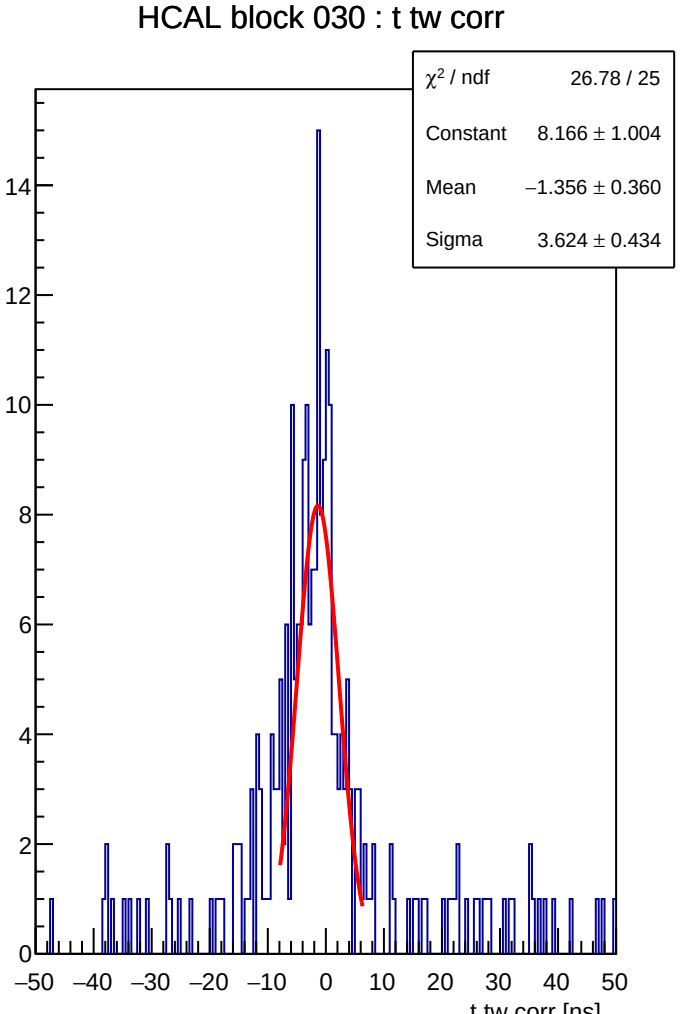
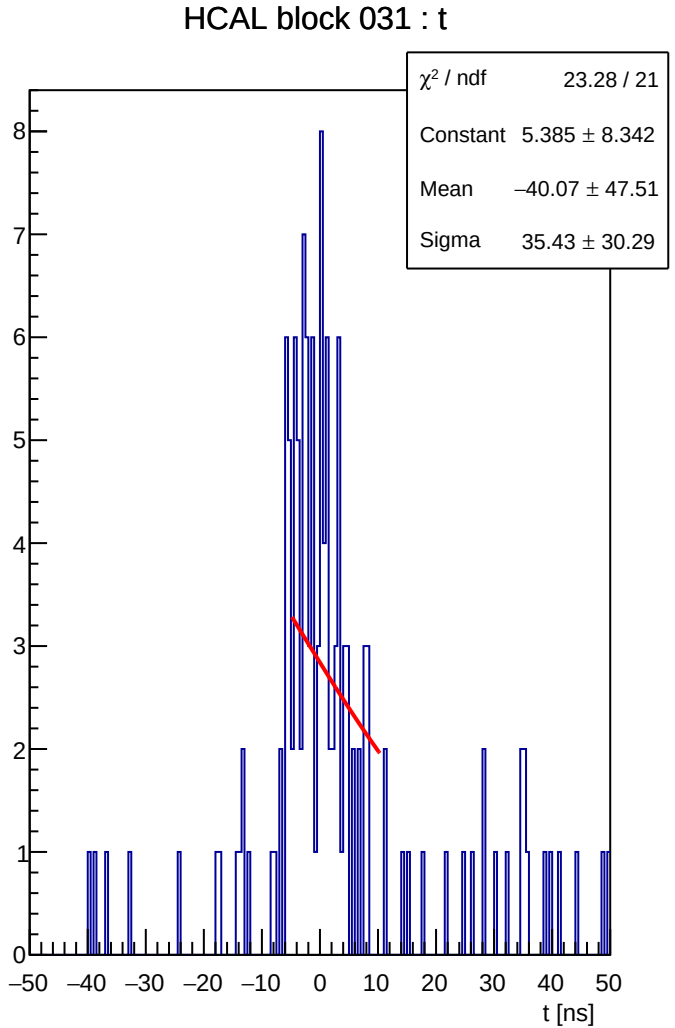
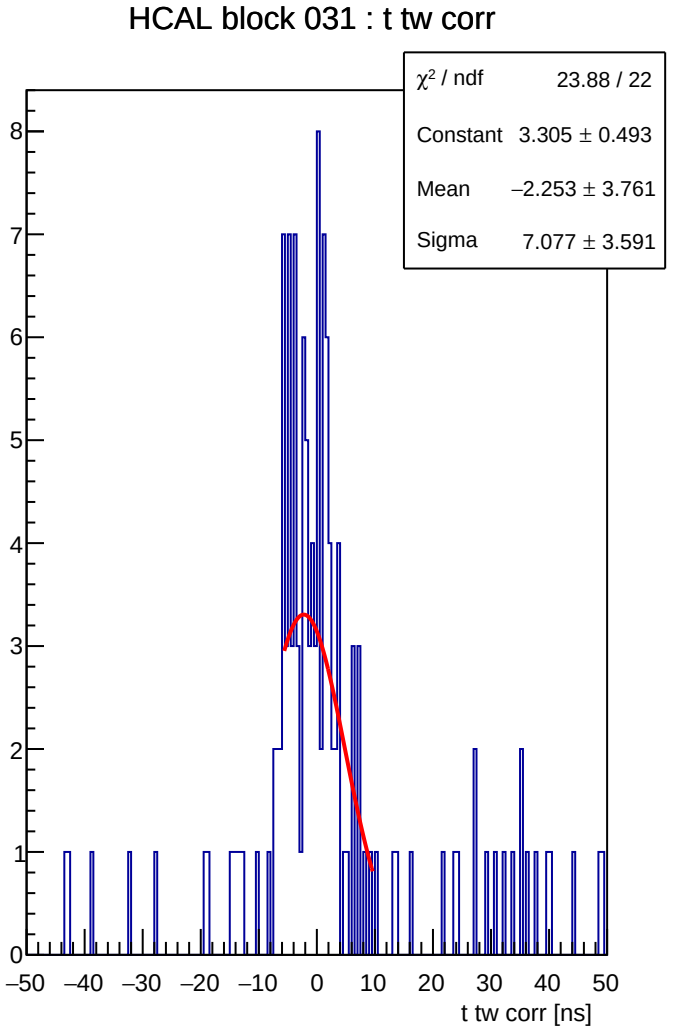
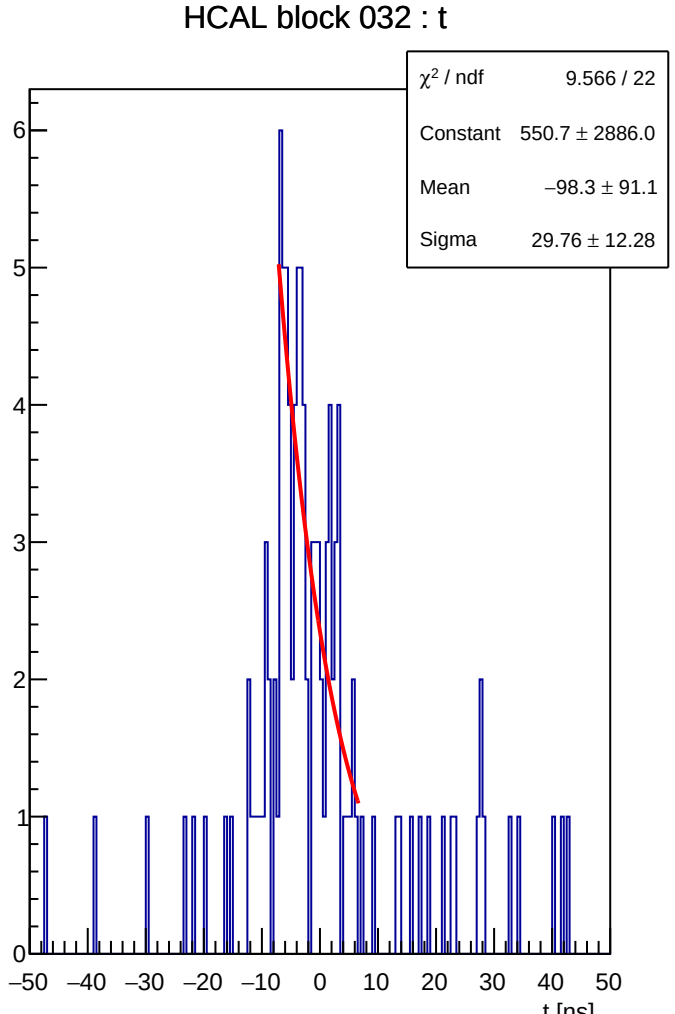
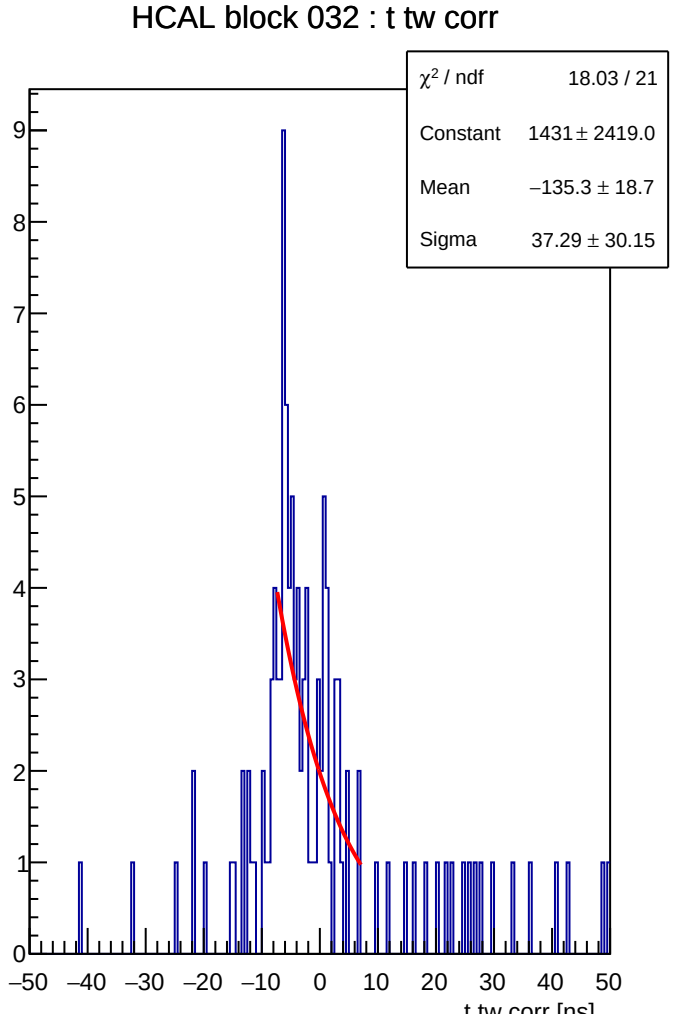
10
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

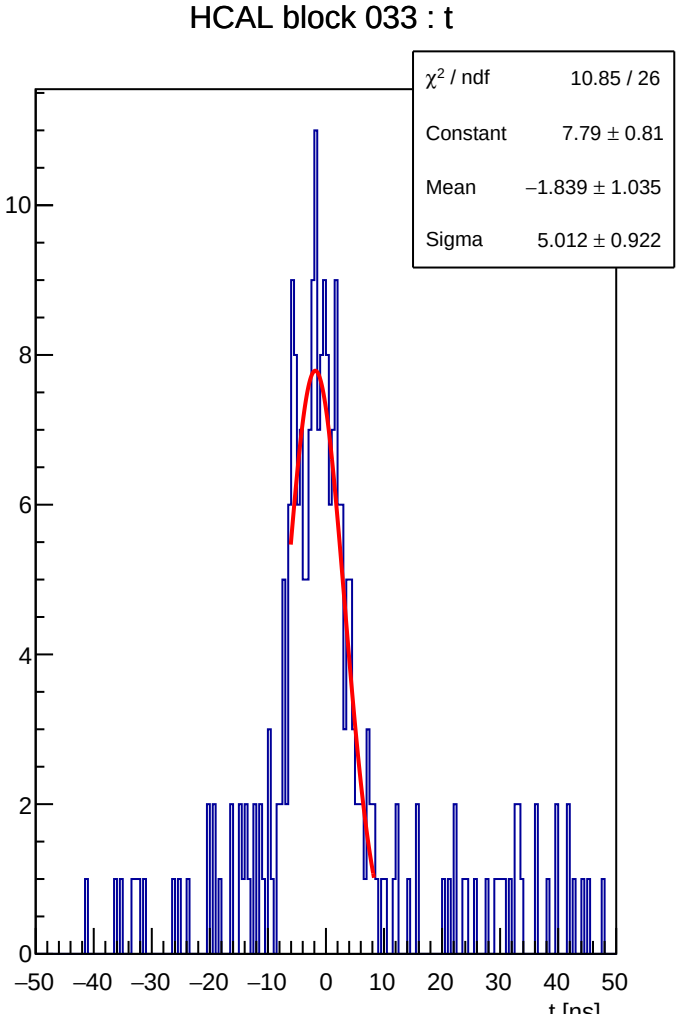

HCAL block 030 : t tw corr
χ² / ndf 26.78 / 25
Constant 8.166 ± 1.004
Mean −1.356 ± 0.360
Sigma 3.624 ± 0.434
0
2
4
6
8
10
12
14
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

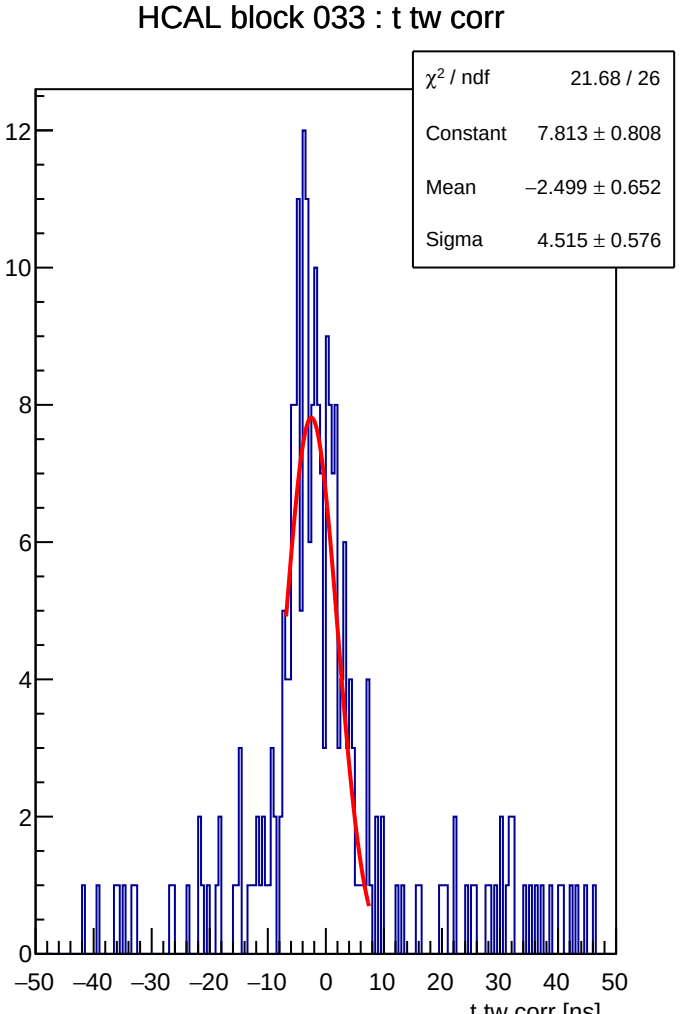

HCAL block 031 : t
χ² / ndf 23.28 / 21
Constant 5.385 ± 8.342
Mean –40.07 ± 47.51
Sigma 35.43 ± 30.29
t [ns]

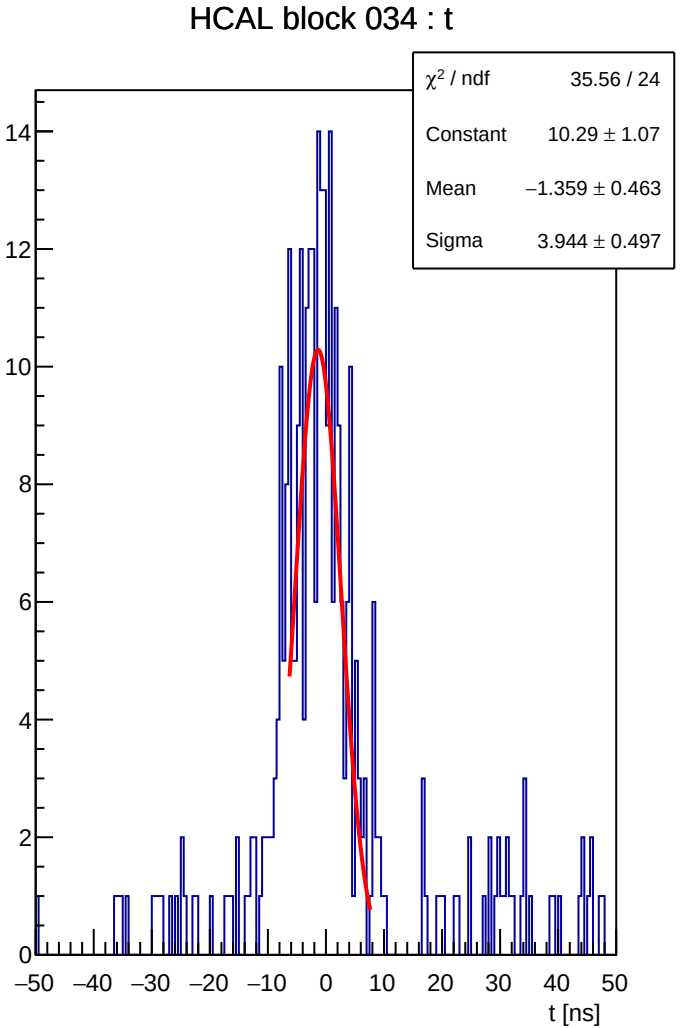

HCAL block 031 : t tw corr
χ² / ndf 23.88 / 22
Constant 3.305 ± 0.493
Mean –2.253 ± 3.761
Sigma 7.077 ± 3.591
t tw corr [ns]

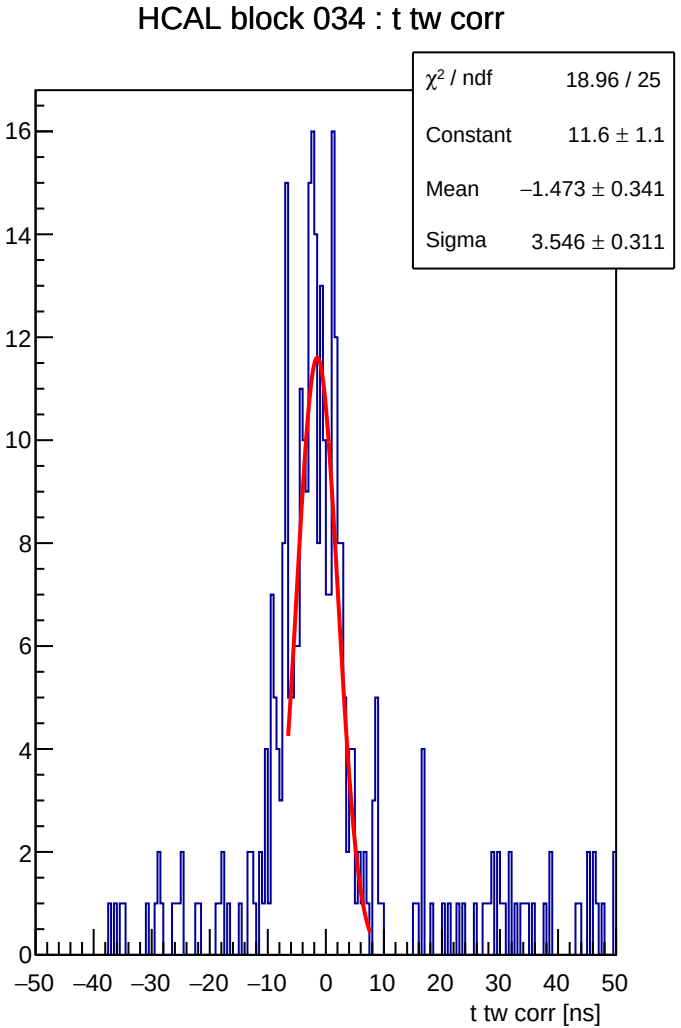

HCAL block 032 : t
χ² / ndf 9.566 / 22
Constant 550.7 ± 2886.0
Mean −98.3 ± 91.1
Sigma 29.76 ± 12.28
t [ns]

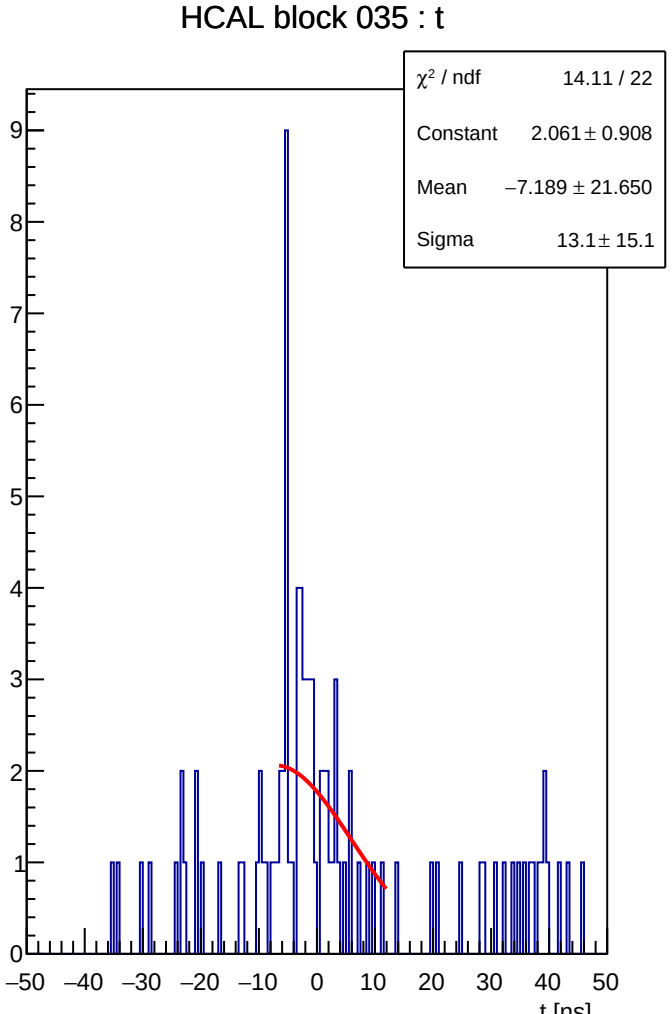

HCAL block 032 : t tw corr
χ² / ndf 18.03 / 21
Constant 1431 ± 2419.0
Mean −135.3 ± 18.7
Sigma 37.29 ± 30.15
t tw corr [ns]

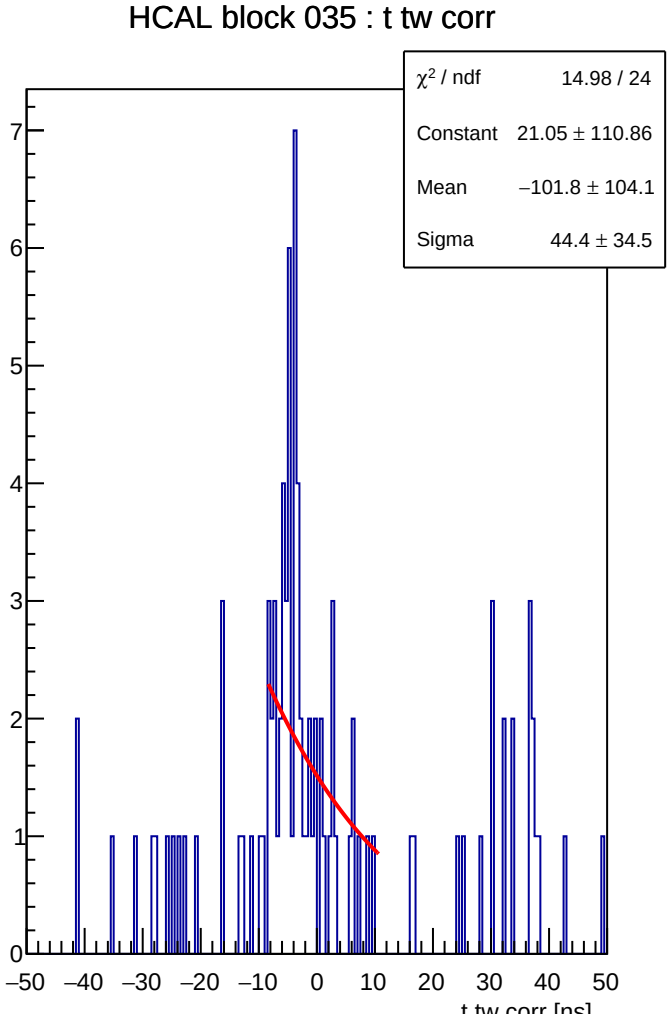

HCAL block 033 : t
χ² / ndf 10.85 / 26
Constant 7.79 ± 0.81
Mean −1.839 ± 1.035
Sigma 5.012 ± 0.922
0
2
4
6
8
10
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

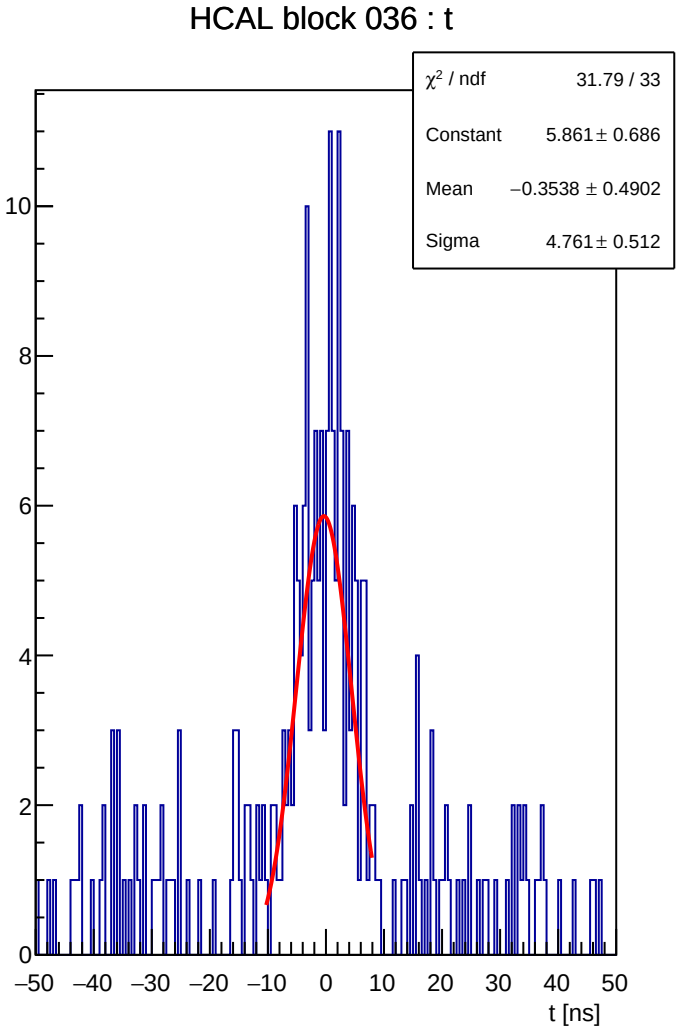

HCAL block 033 : t tw corr
χ² / ndf 21.68 / 26
Constant 7.813 ± 0.808
Mean −2.499 ± 0.652
Sigma 4.515 ± 0.576
0
2
4
6
8
10
12
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

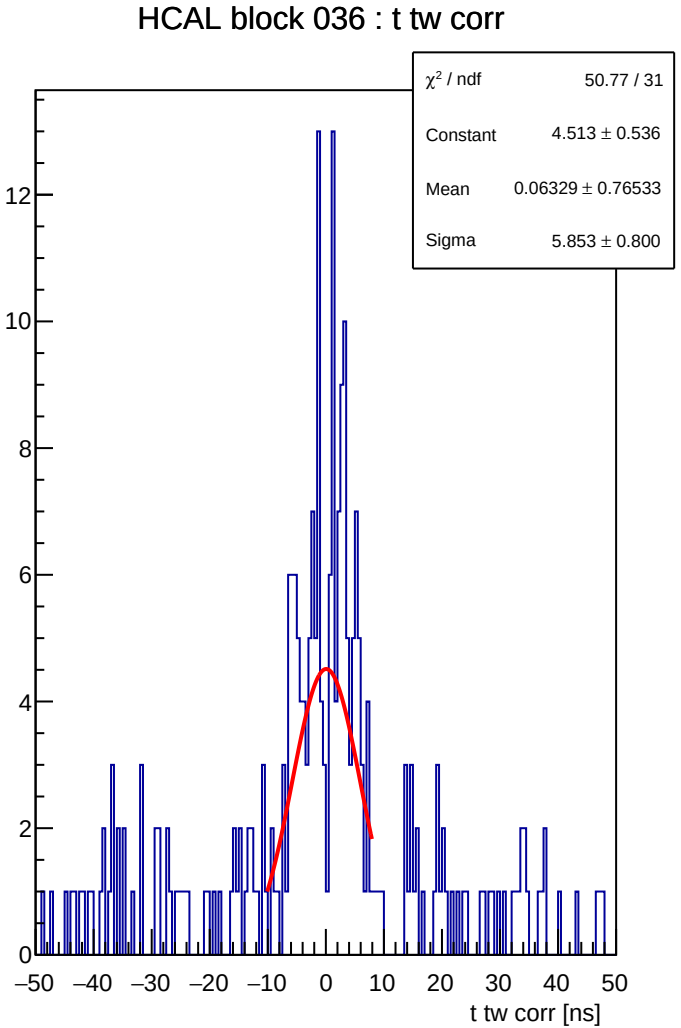

HCAL block 034 : t
χ² / ndf 35.56 / 24
Constant 10.29 ± 1.07
Mean −1.359 ± 0.463
Sigma 3.944 ± 0.497
t [ns]

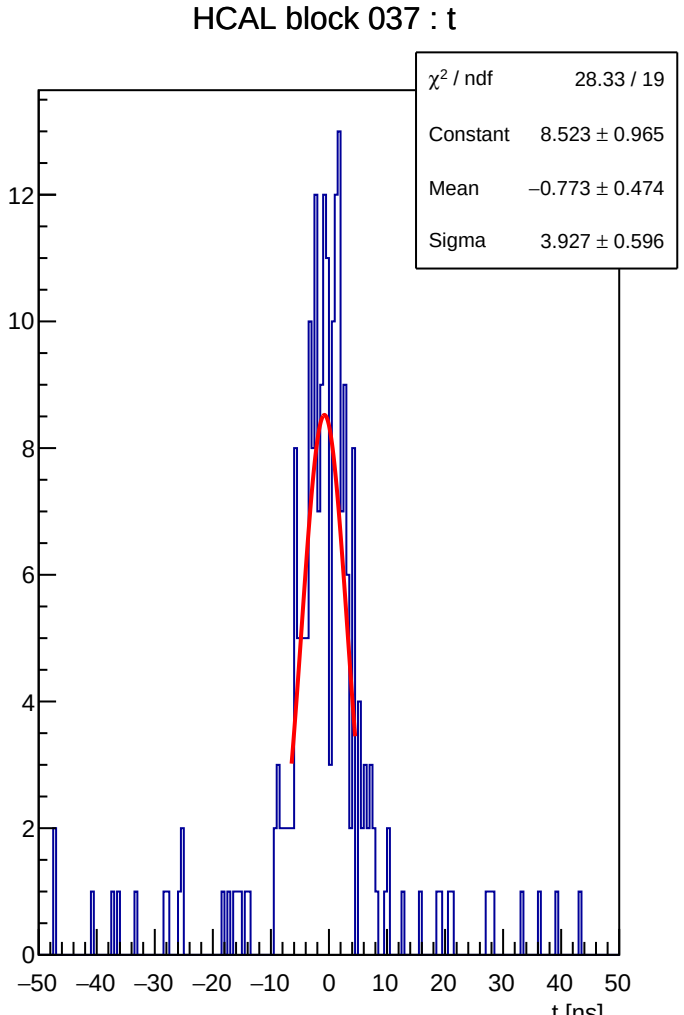

HCAL block 034 : t tw corr
χ² / ndf 18.96 / 25
Constant 11.6 ± 1.1
Mean −1.473 ± 0.341
Sigma 3.546 ± 0.311
t tw corr [ns]

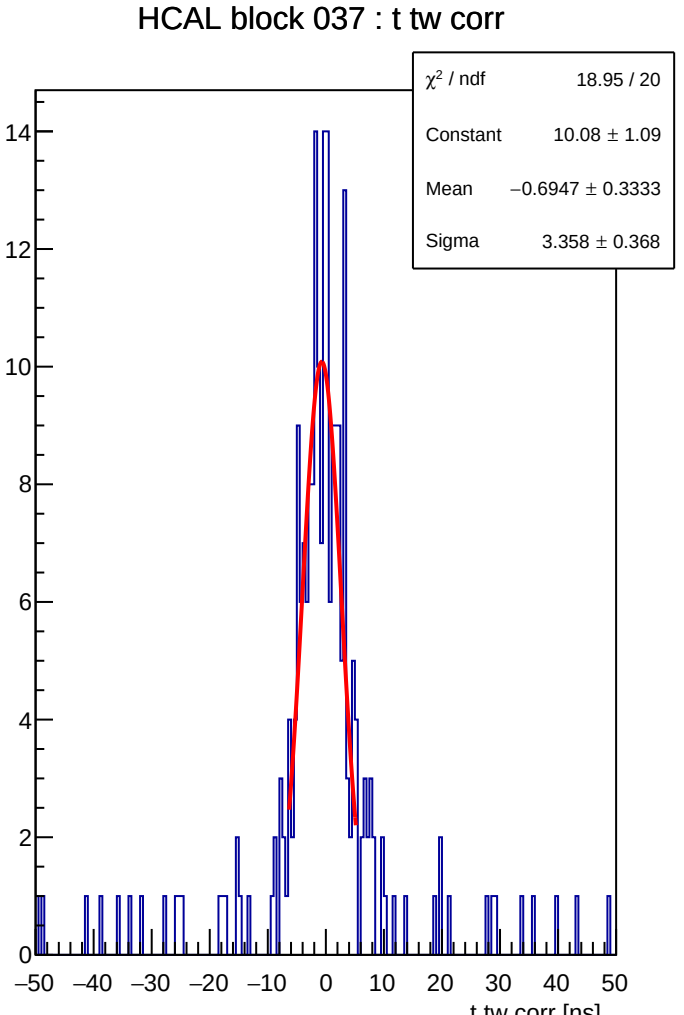

HCAL block 035 : t
χ² / ndf 14.11 / 22
Constant 2.061 ± 0.908
Mean −7.189 ± 21.650
Sigma 13.1 ± 15.1
t [ns]

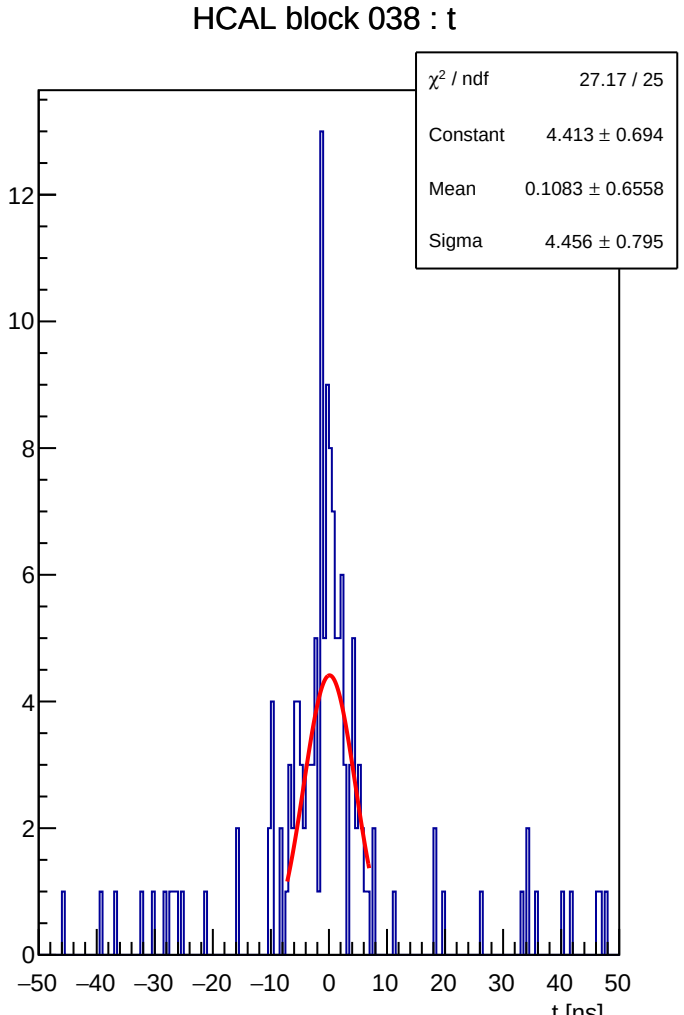

HCAL block 035 : t tw corr
χ² / ndf 14.98 / 24
Constant 21.05 ± 110.86
Mean −101.8 ± 104.1
Sigma 44.4 ± 34.5
t tw corr [ns]

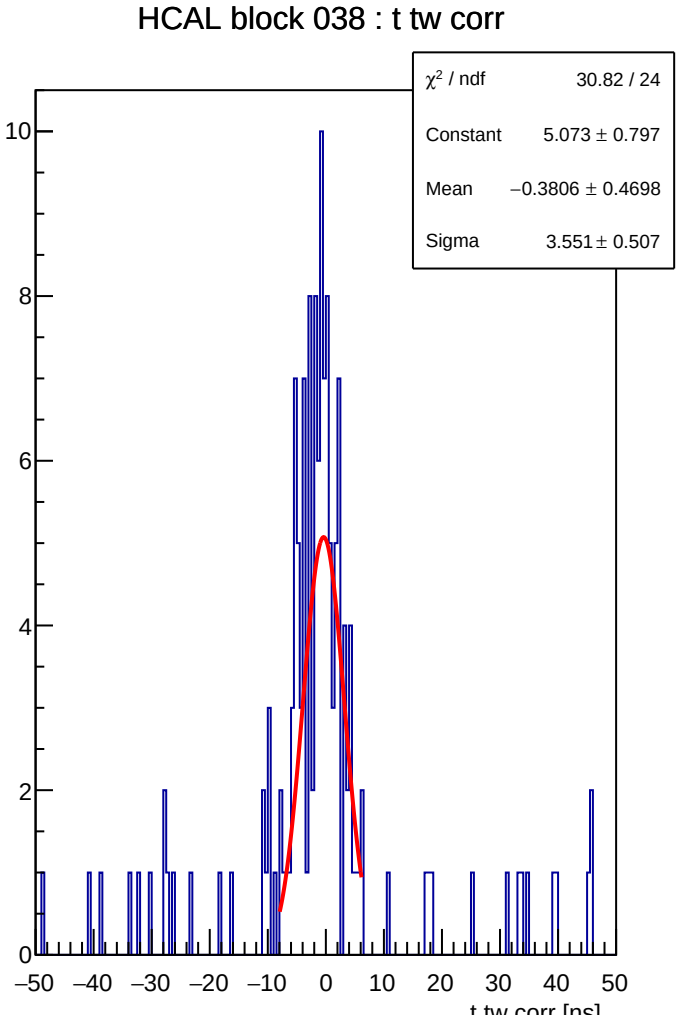

HCAL block 036 : t
χ² / ndf 31.79 / 33
Constant 5.861 ± 0.686
Mean −0.3538 ± 0.4902
Sigma 4.761 ± 0.512
t [ns]

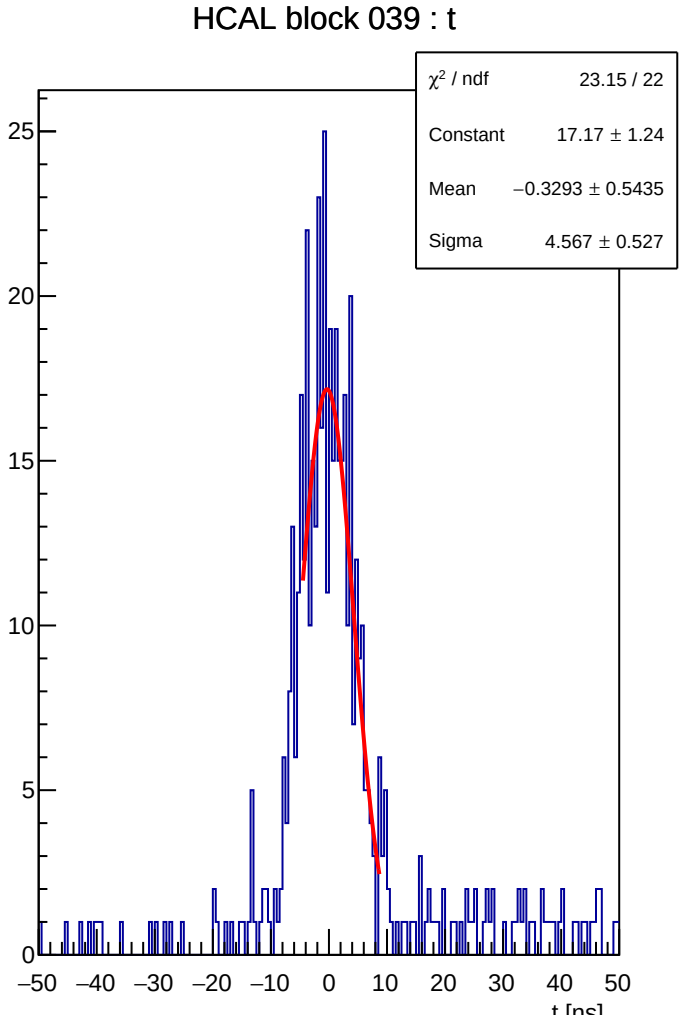

HCAL block 036 : t tw corr
χ² / ndf 50.77 / 31
Constant 4.513 ± 0.536
Mean 0.06329 ± 0.76533
Sigma 5.853 ± 0.800
t tw corr [ns]

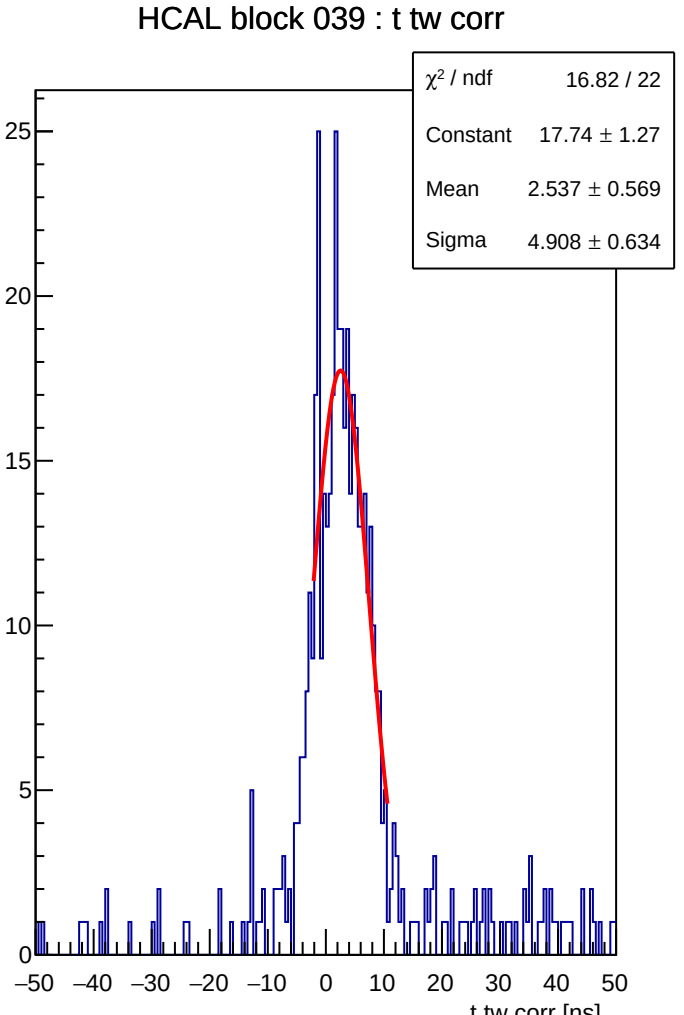

HCAL block 037 : t
χ² / ndf 28.33 / 19
Constant 8.523 ± 0.965
Mean −0.773 ± 0.474
Sigma 3.927 ± 0.596
0
2
4
6
8
10
12
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

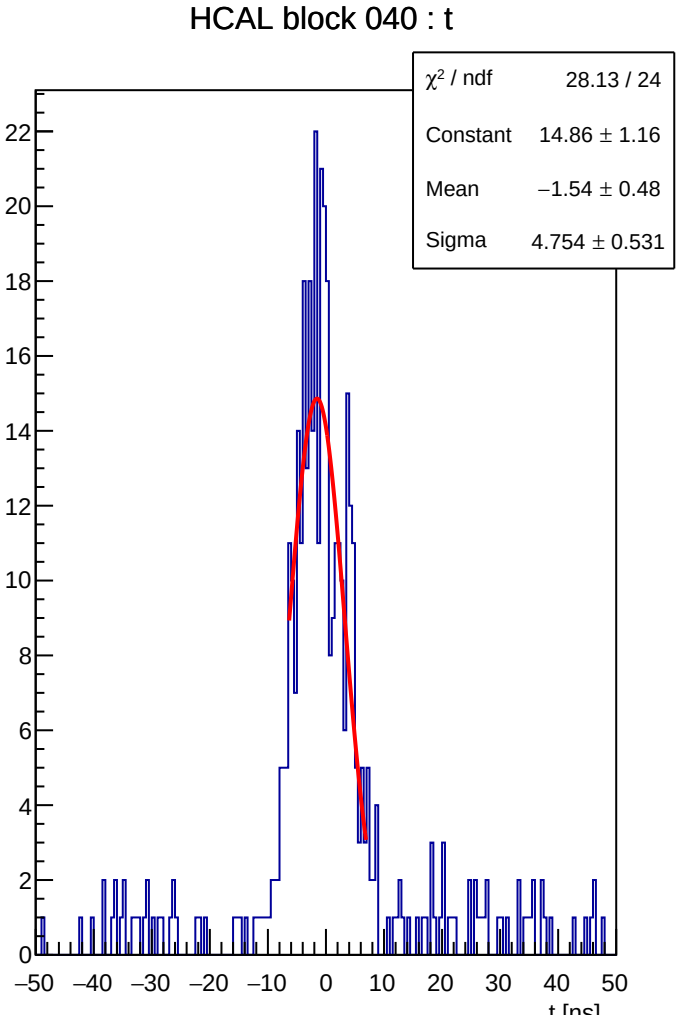

HCAL block 037 : t tw corr
χ² / ndf 18.95 / 20
Constant 10.08 ± 1.09
Mean −0.6947 ± 0.3333
Sigma 3.358 ± 0.368
0
2
4
6
8
10
12
14
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

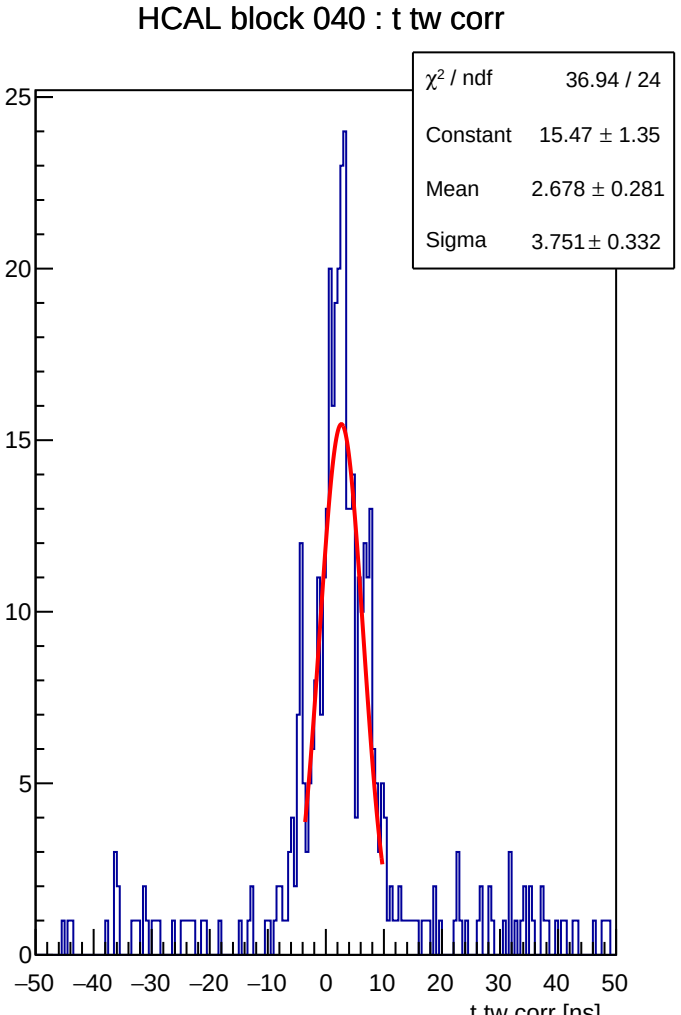

HCAL block 038 : t
χ² / ndf 27.17 / 25
Constant 4.413 ± 0.694
Mean 0.1083 ± 0.6558
Sigma 4.456 ± 0.795
t [ns]

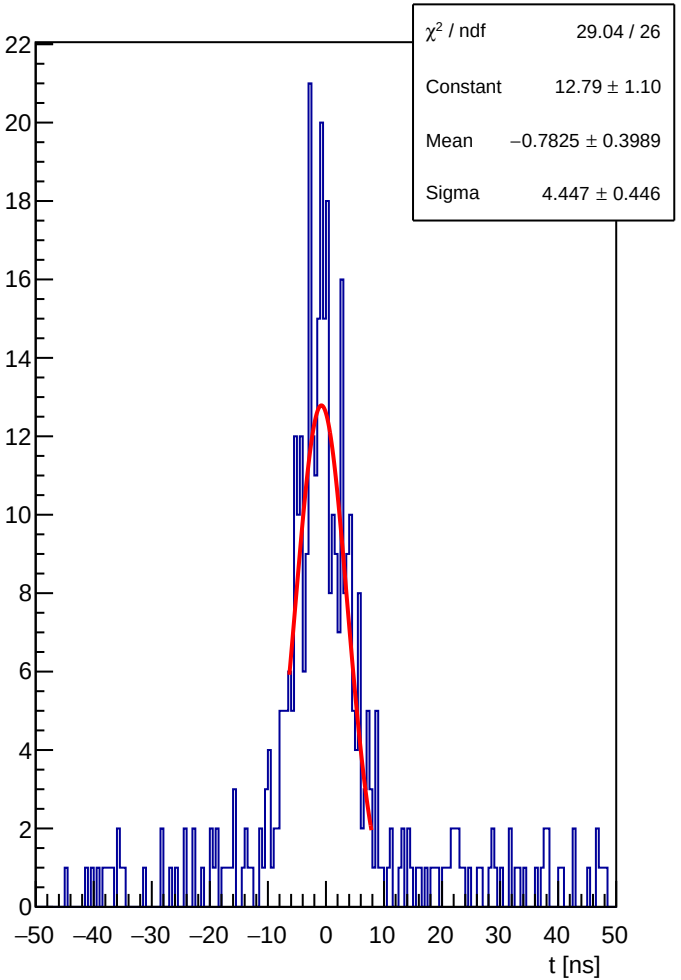

HCAL block 038 : t tw corr
χ² / ndf 30.82 / 24
Constant 5.073 ± 0.797
Mean −0.3806 ± 0.4698
Sigma 3.551 ± 0.507
t tw corr [ns]

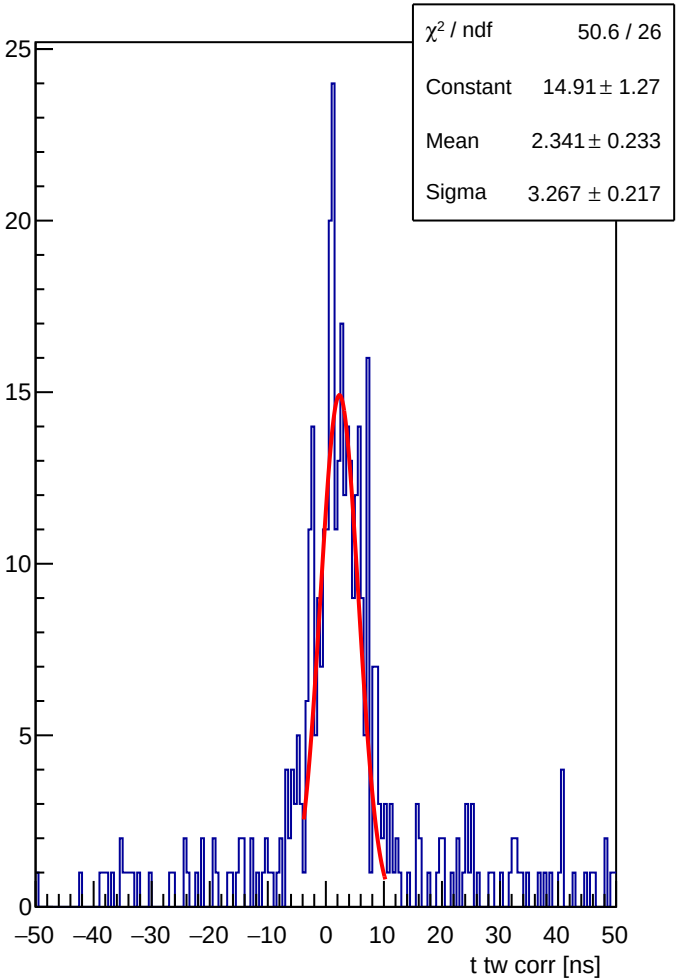

HCAL block 039 : t
χ² / ndf 23.15 / 22
Constant 17.17 ± 1.24
Mean −0.3293 ± 0.5435
Sigma 4.567 ± 0.527
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

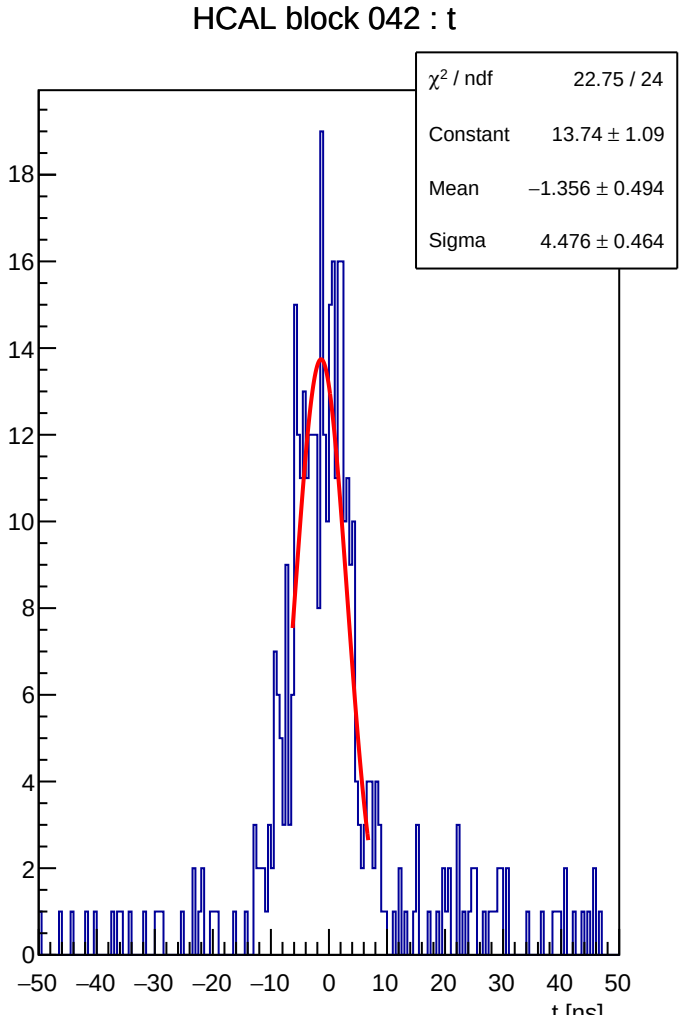

HCAL block 039 : t tw corr
χ² / ndf 16.82 / 22
Constant 17.74 ± 1.27
Mean 2.537 ± 0.569
Sigma 4.908 ± 0.634
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

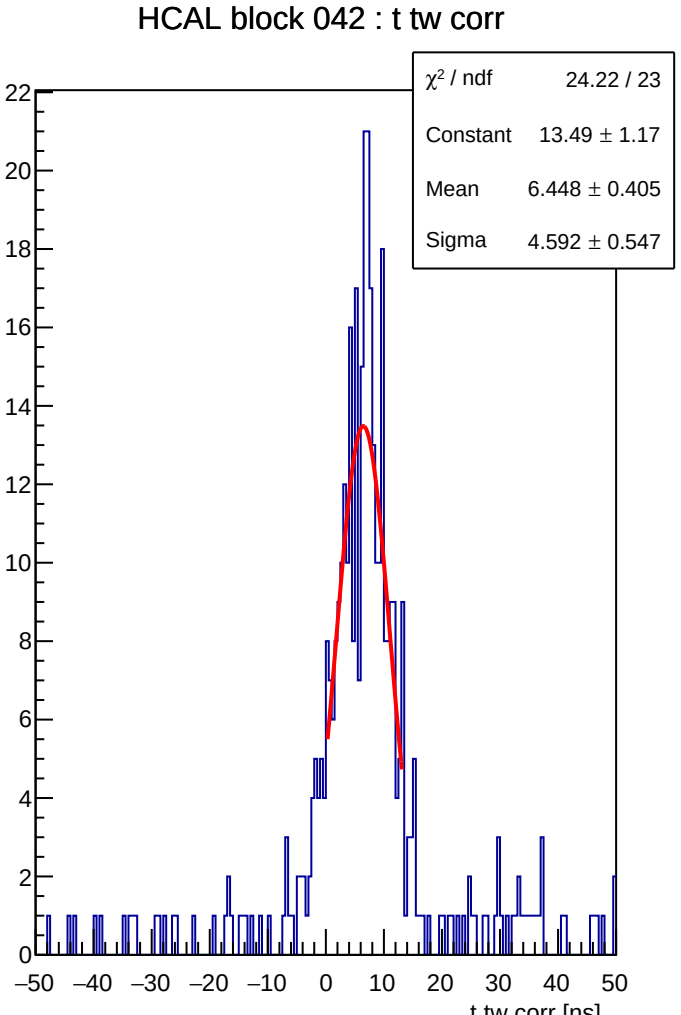

HCAL block 040 : t
χ² / ndf 28.13 / 24
Constant 14.86 ± 1.16
Mean −1.54 ± 0.48
Sigma 4.754 ± 0.531
t [ns]

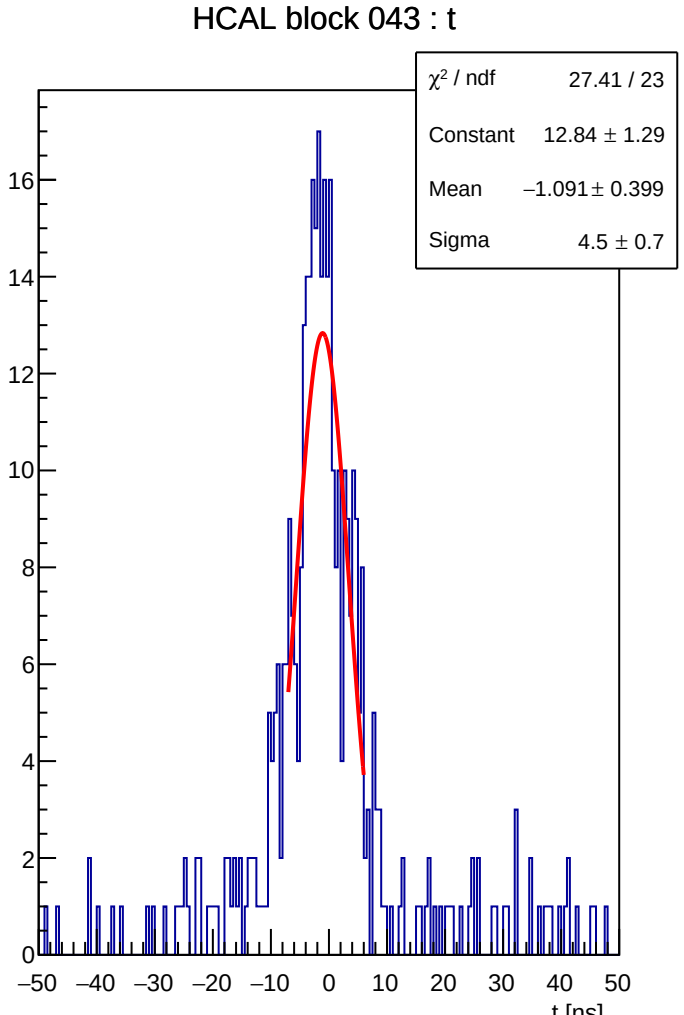

HCAL block 040 : t tw corr
χ² / ndf 36.94 / 24
Constant 15.47 ± 1.35
Mean 2.678 ± 0.281
Sigma 3.751 ± 0.332
t tw corr [ns]

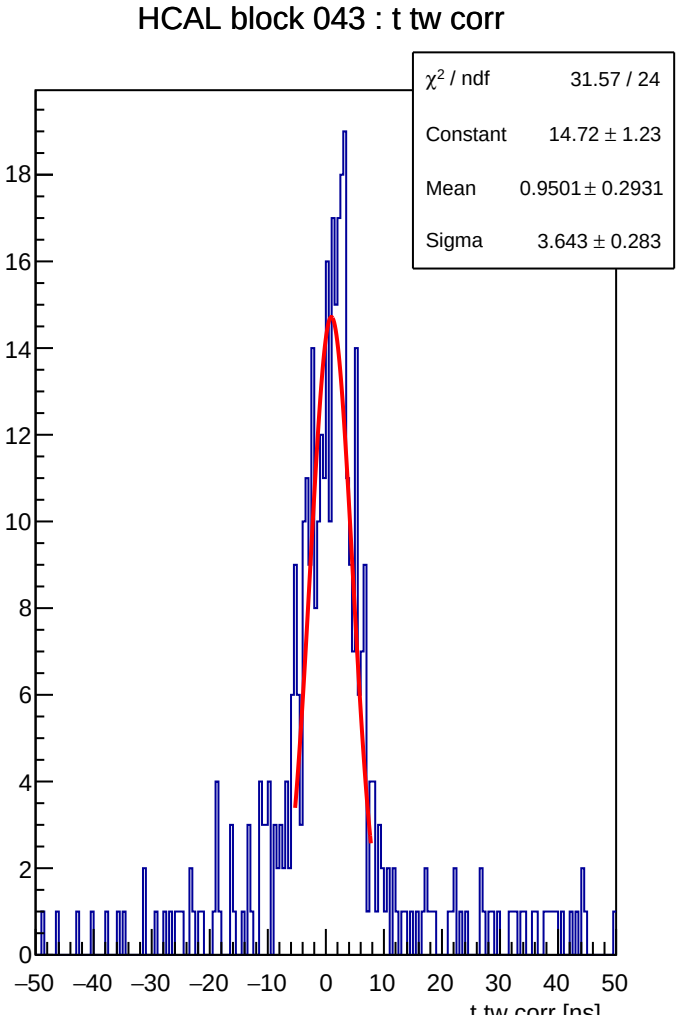

HCAL block 041 : t
χ² / ndf 29.04 / 26
Constant 12.79 ± 1.10
Mean −0.7825 ± 0.3989
Sigma 4.447 ± 0.446
t [ns]

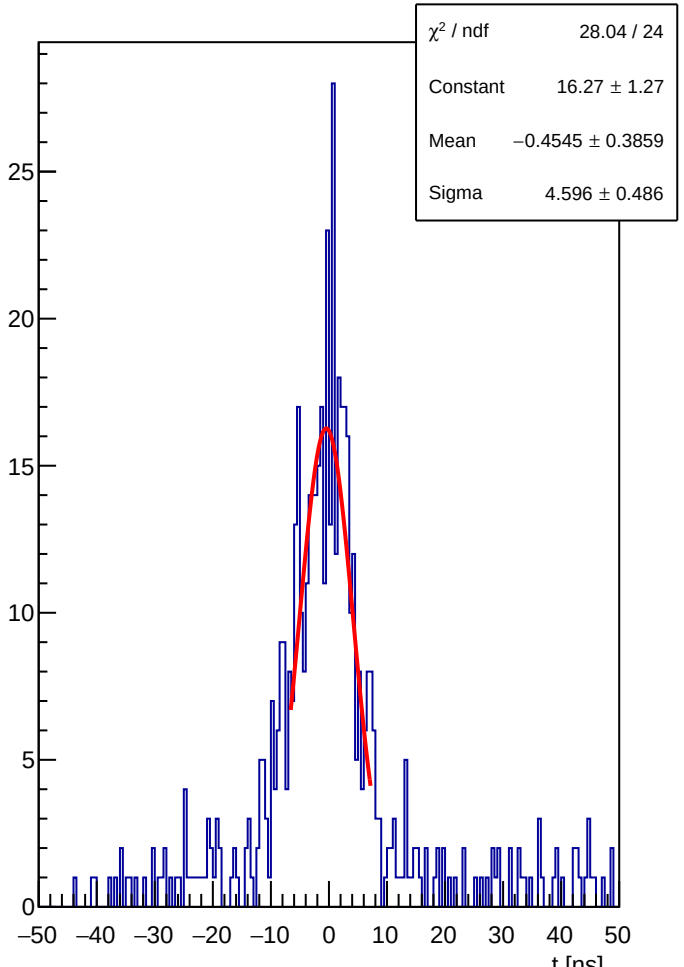

HCAL block 041 : t tw corr
χ² / ndf 50.6 / 26
Constant 14.91 ± 1.27
Mean 2.341 ± 0.233
Sigma 3.267 ± 0.217
t tw corr [ns]

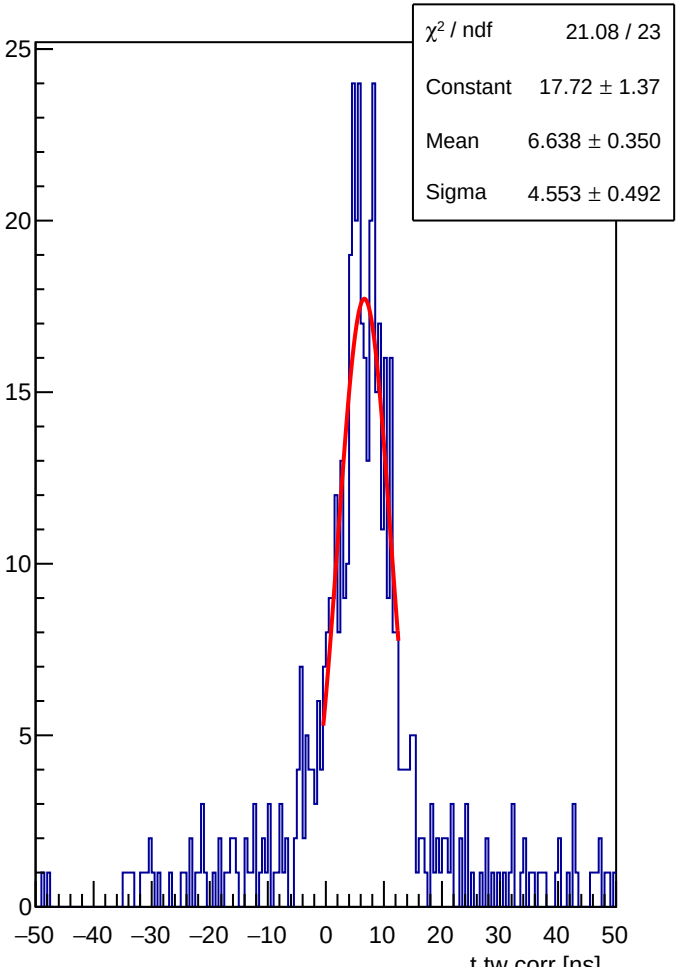

HCAL block 042 : t
χ² / ndf 22.75 / 24
Constant 13.74 ± 1.09
Mean −1.356 ± 0.494
Sigma 4.476 ± 0.464
t [ns]

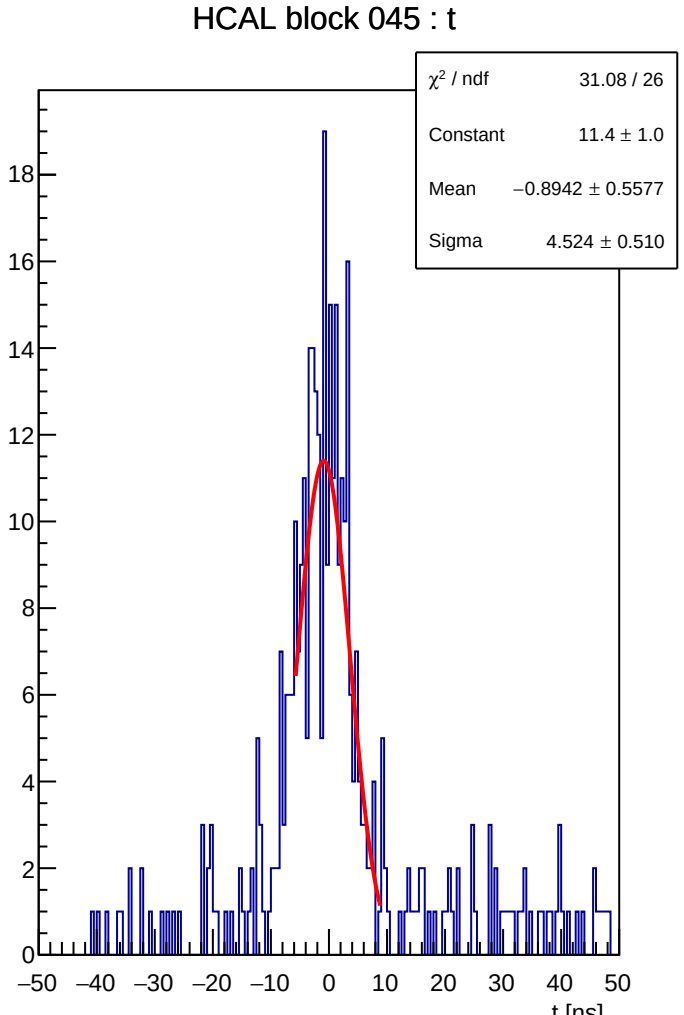

HCAL block 042 : t tw corr
χ² / ndf 24.22 / 23
Constant 13.49 ± 1.17
Mean 6.448 ± 0.405
Sigma 4.592 ± 0.547
t tw corr [ns]

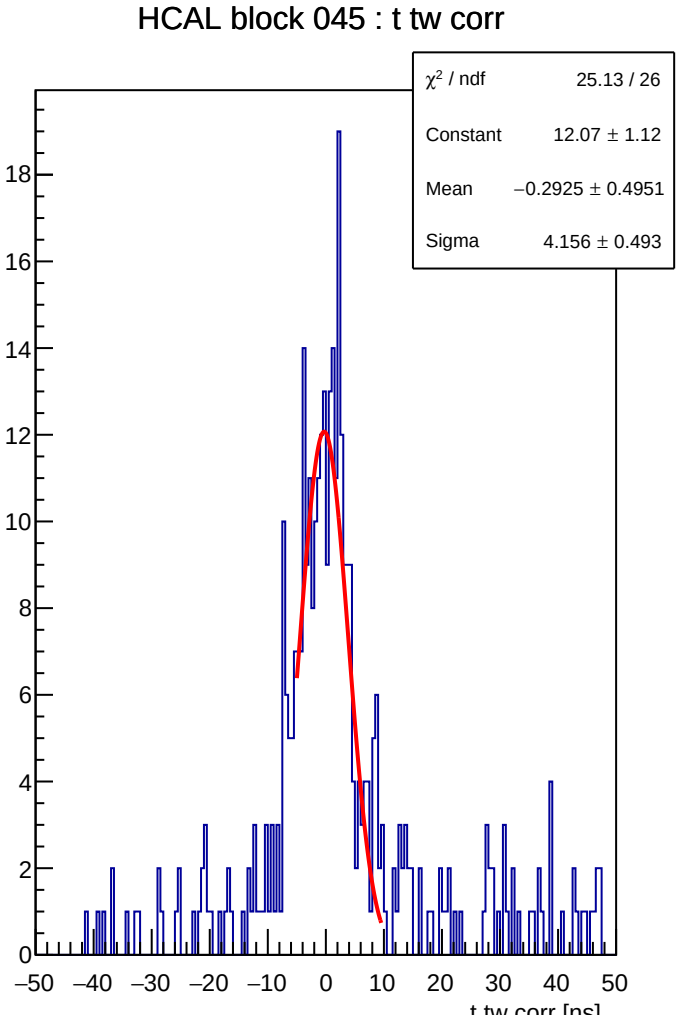

HCAL block 043 : t
χ² / ndf 27.41 / 23
Constant 12.84 ± 1.29
Mean −1.091 ± 0.399
Sigma 4.5 ± 0.7
t [ns]

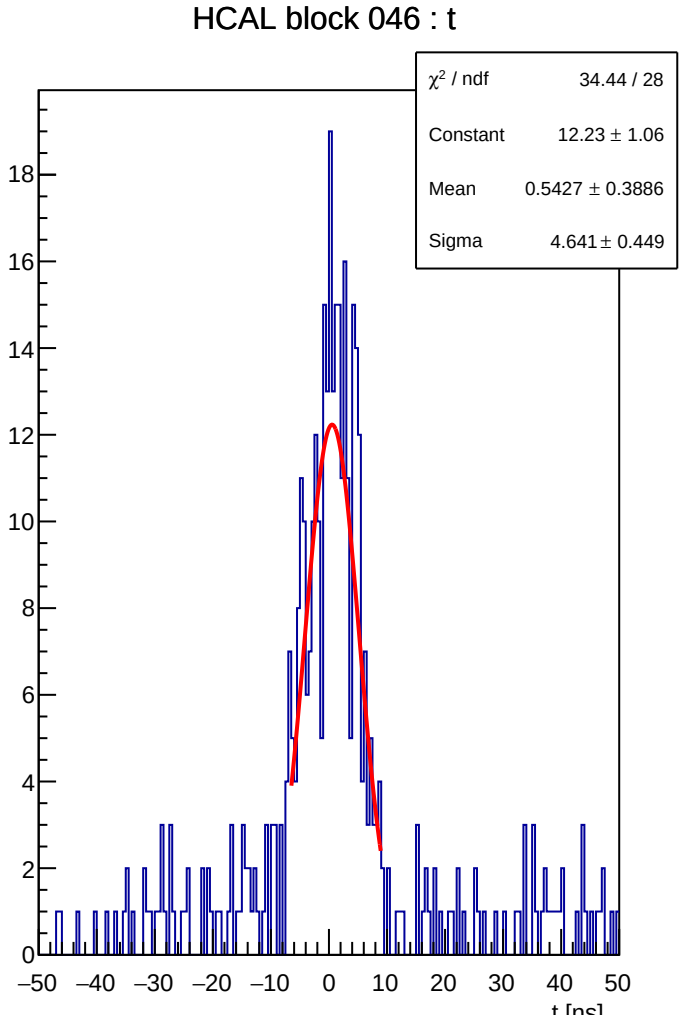

HCAL block 043 : t tw corr
χ² / ndf 31.57 / 24
Constant 14.72 ± 1.23
Mean 0.9501 ± 0.2931
Sigma 3.643 ± 0.283
t tw corr [ns]

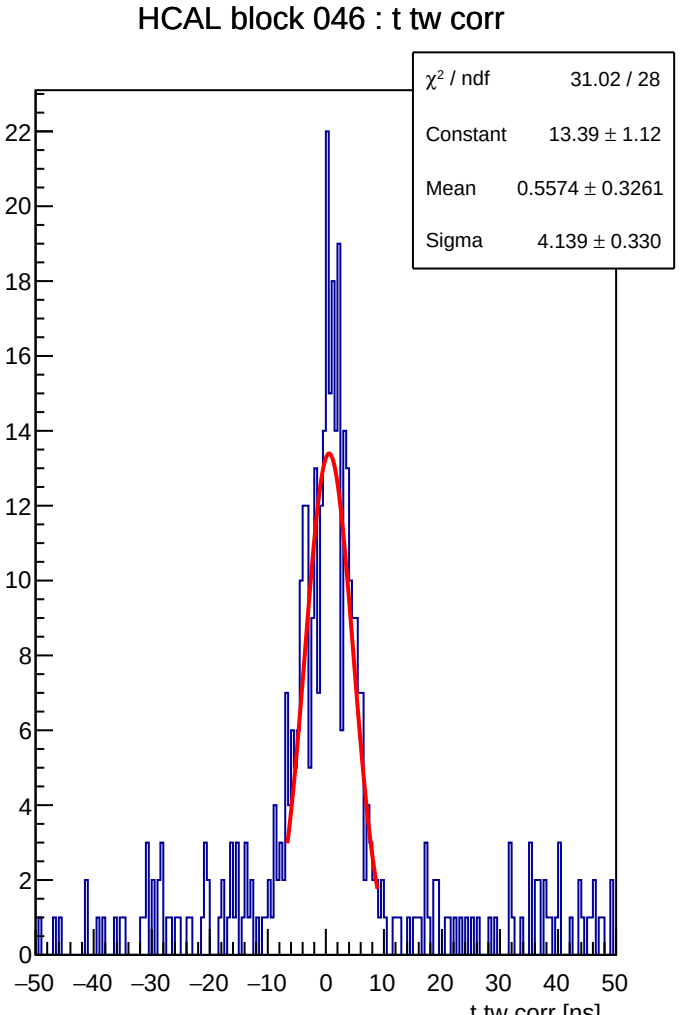

HCAL block 044 : t
χ² / ndf 28.04 / 24
Constant 16.27 ± 1.27
Mean −0.4545 ± 0.3859
Sigma 4.596 ± 0.486
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

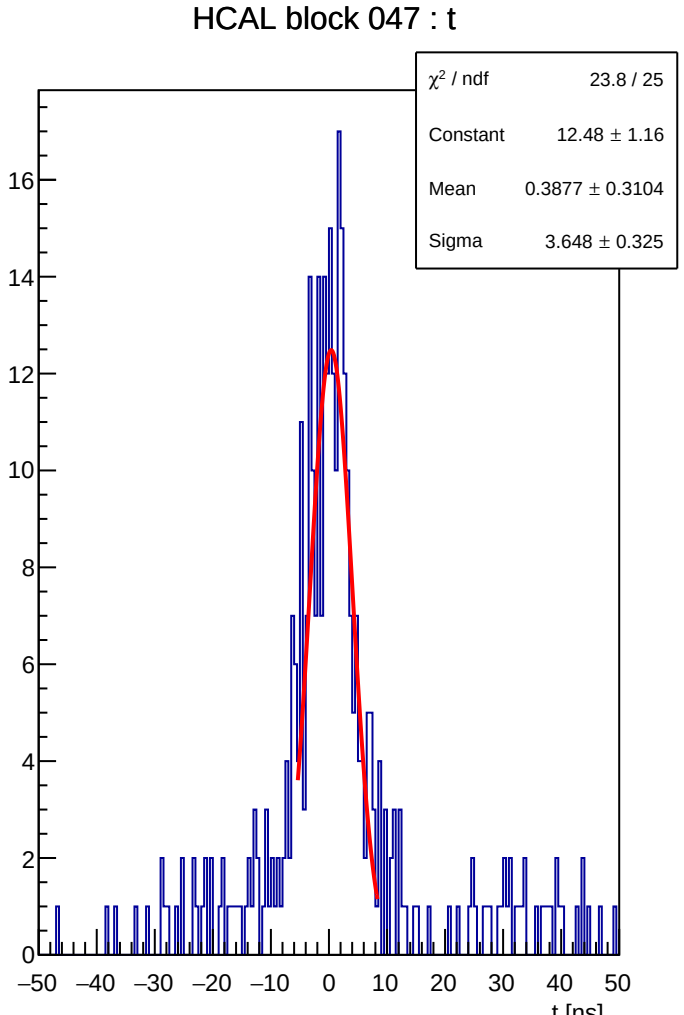

HCAL block 044 : t tw corr
χ² / ndf 21.08 / 23
Constant 17.72 ± 1.37
Mean 6.638 ± 0.350
Sigma 4.553 ± 0.492
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

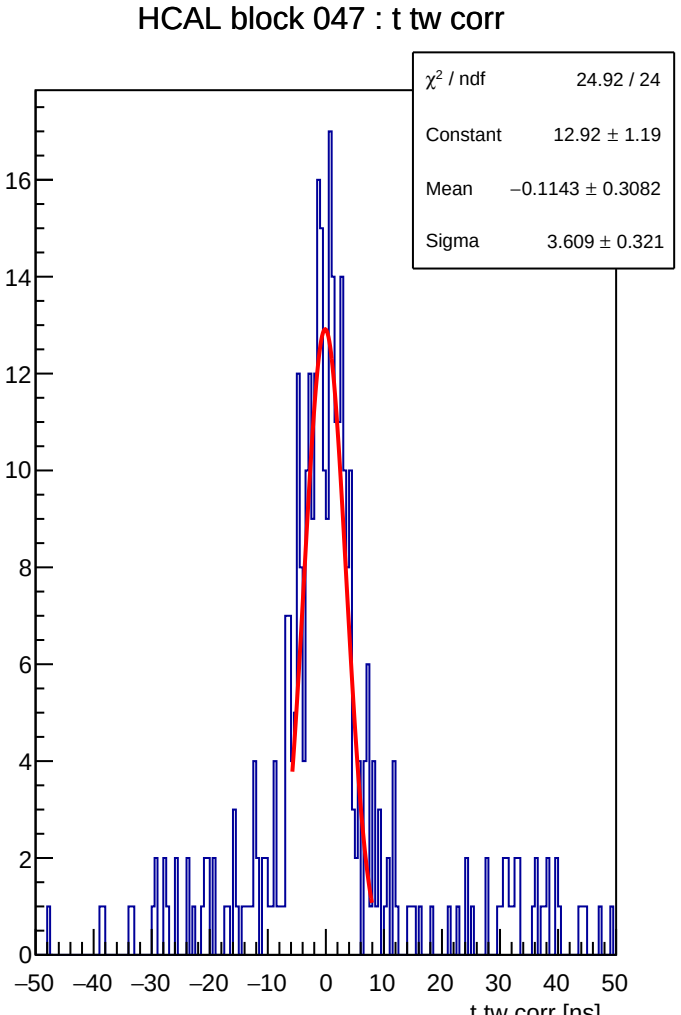

HCAL block 045 : t
χ² / ndf 31.08 / 26
Constant 11.4 ± 1.0
Mean −0.8942 ± 0.5577
Sigma 4.524 ± 0.510
t [ns]

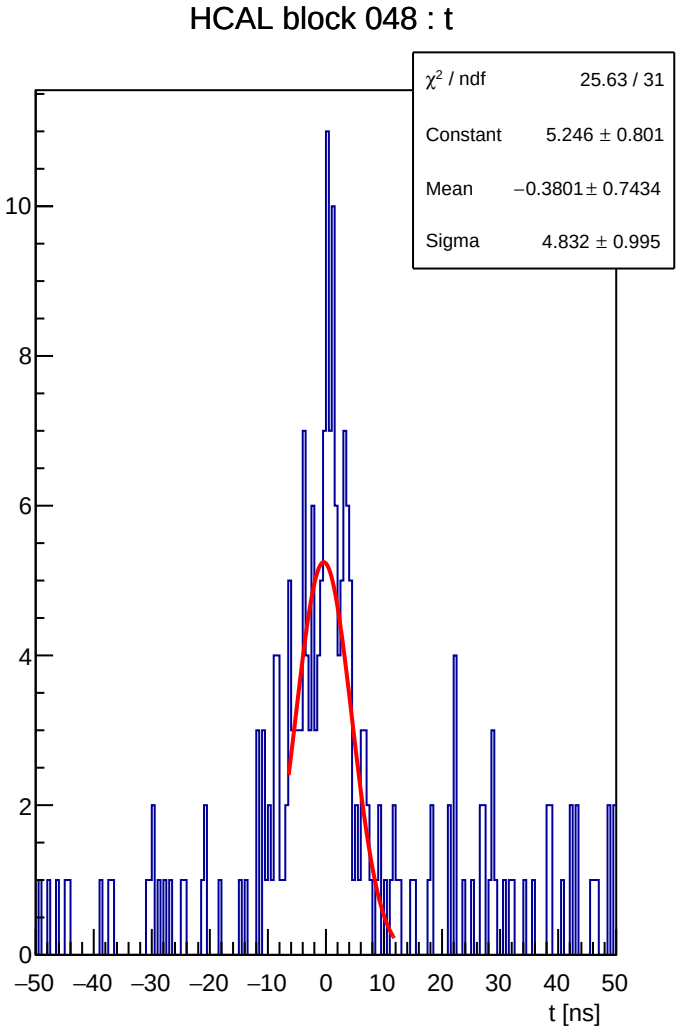

HCAL block 045 : t tw corr
χ² / ndf 25.13 / 26
Constant 12.07 ± 1.12
Mean −0.2925 ± 0.4951
Sigma 4.156 ± 0.493
t tw corr [ns]

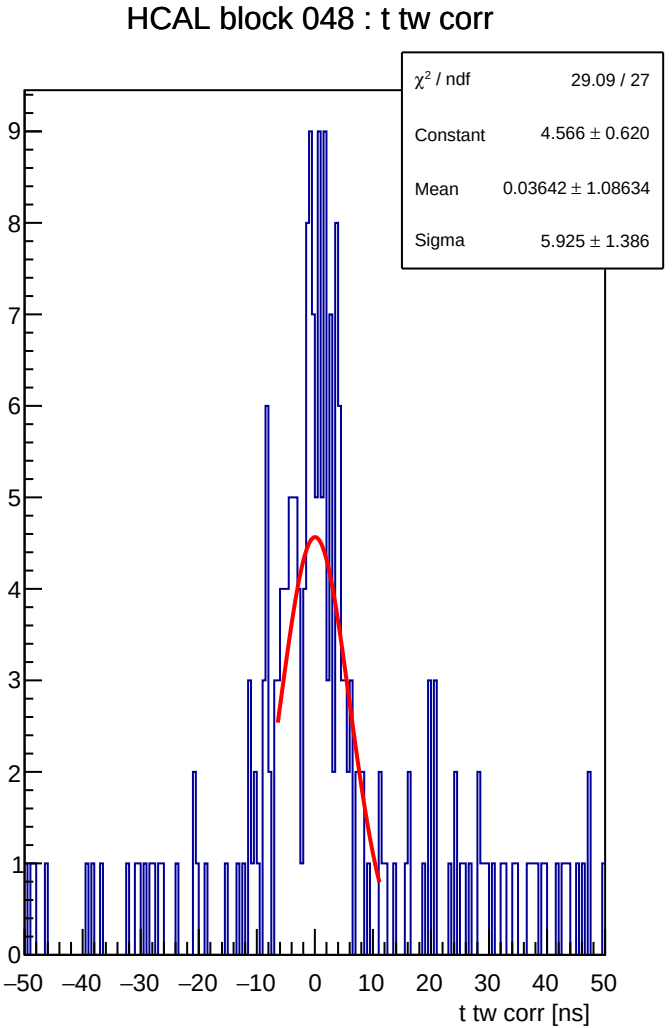

HCAL block 046 : t
χ² / ndf 34.44 / 28
Constant 12.23 ± 1.06
Mean 0.5427 ± 0.3886
Sigma 4.641 ± 0.449
t [ns]

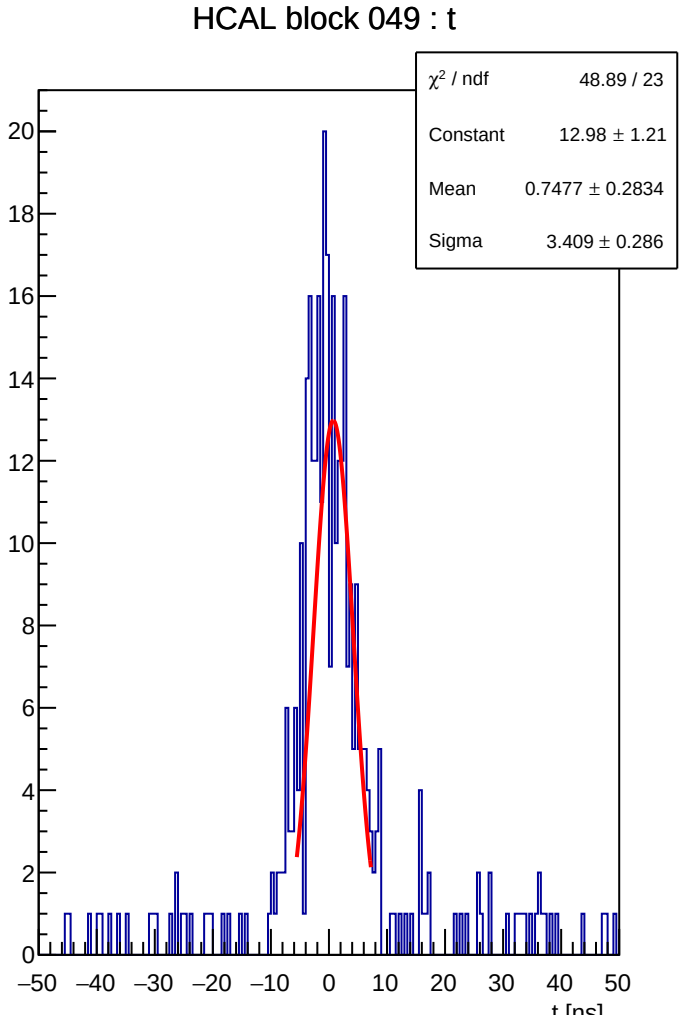

HCAL block 046 : t tw corr
χ² / ndf 31.02 / 28
Constant 13.39 ± 1.12
Mean 0.5574 ± 0.3261
Sigma 4.139 ± 0.330
t tw corr [ns]

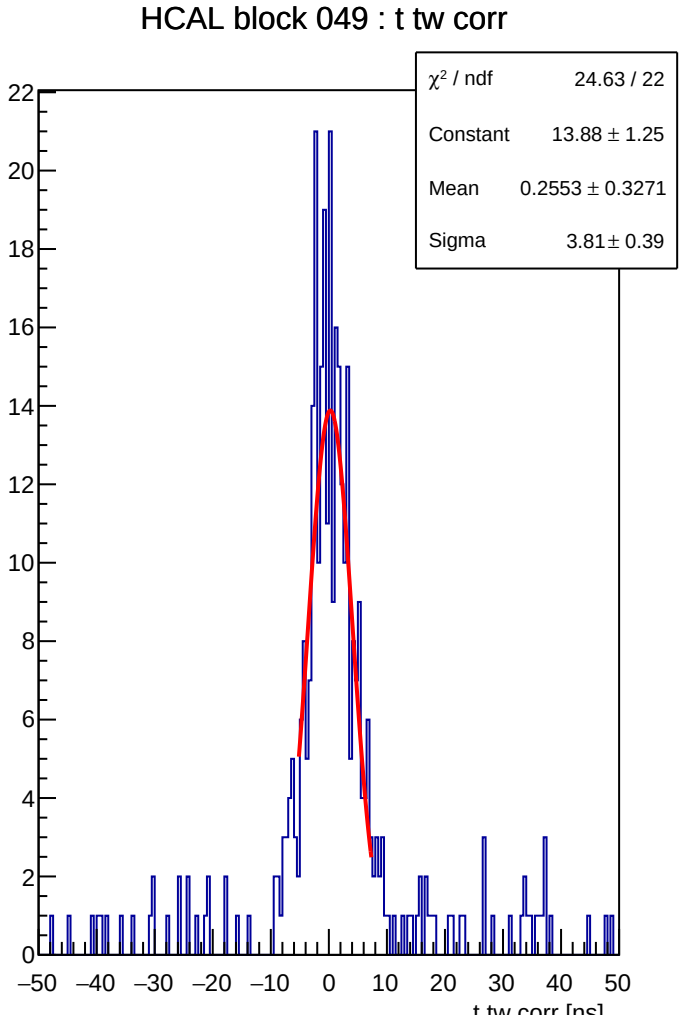

HCAL block 047 : t
χ² / ndf 23.8 / 25
Constant 12.48 ± 1.16
Mean 0.3877 ± 0.3104
Sigma 3.648 ± 0.325
t [ns]

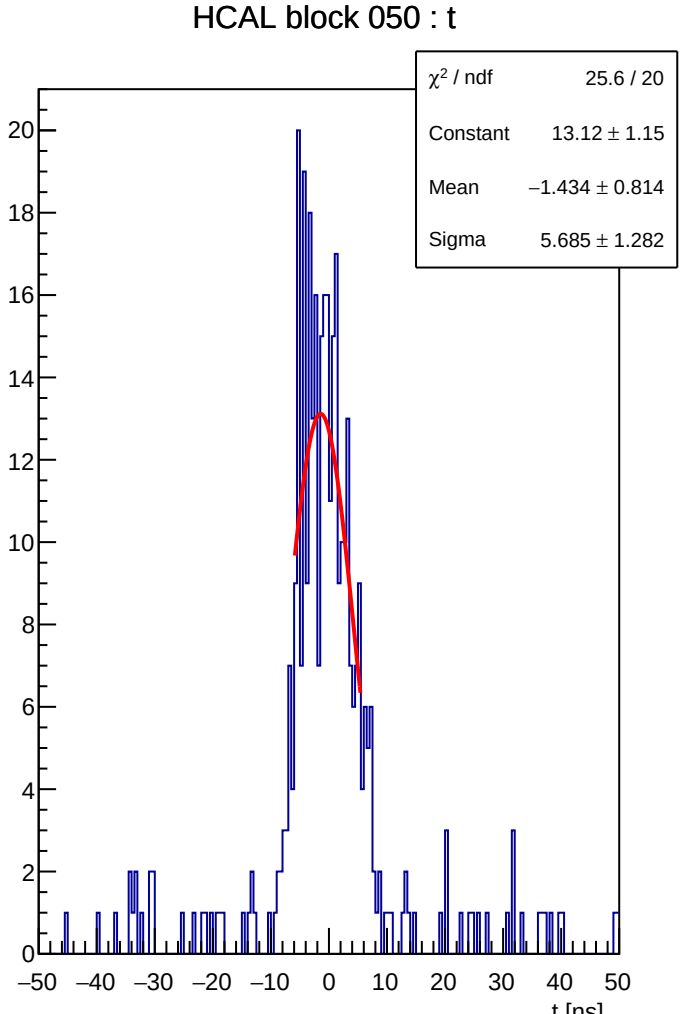

HCAL block 047 : t tw corr
χ² / ndf 24.92 / 24
Constant 12.92 ± 1.19
Mean −0.1143 ± 0.3082
Sigma 3.609 ± 0.321
t tw corr [ns]

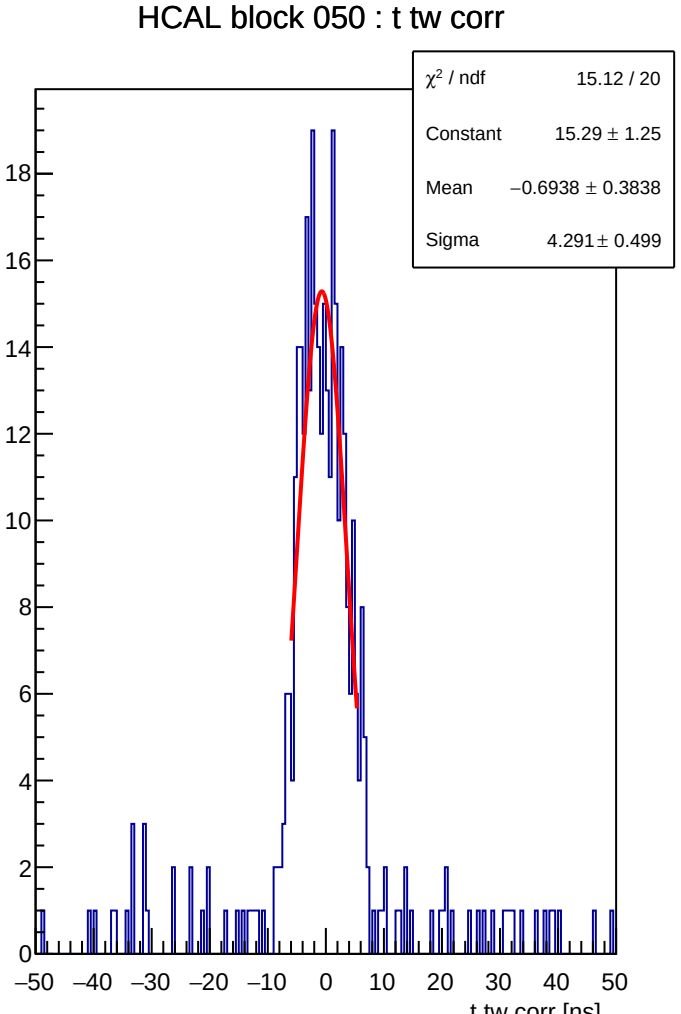

HCAL block 048 : t
χ² / ndf 25.63 / 31
Constant 5.246 ± 0.801
Mean −0.3801 ± 0.7434
Sigma 4.832 ± 0.995
t [ns]

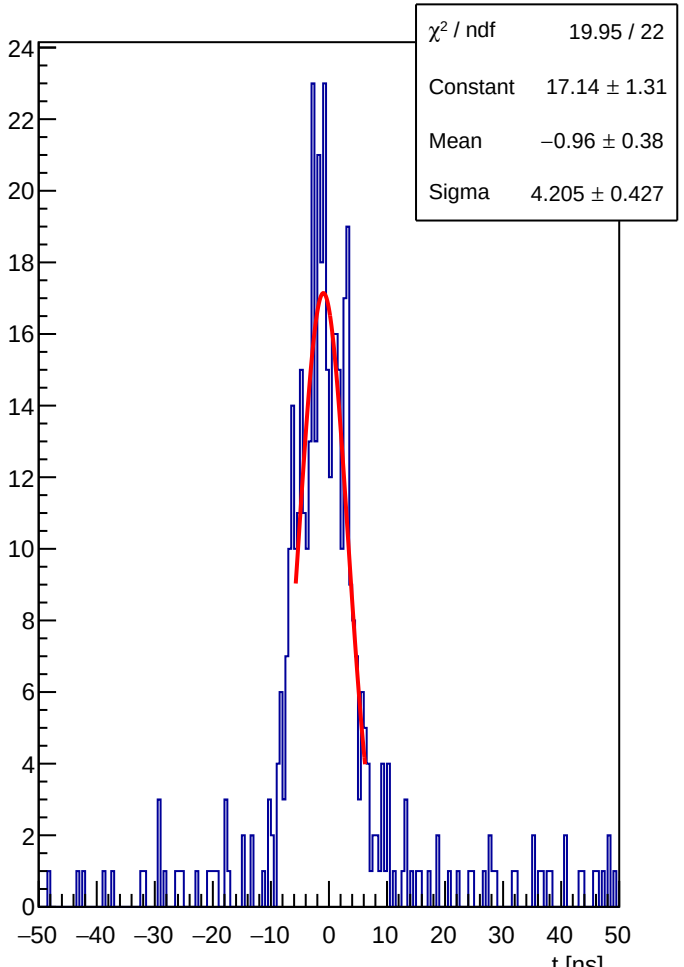

HCAL block 048 : t tw corr
χ² / ndf 29.09 / 27
Constant 4.566 ± 0.620
Mean 0.03642 ± 1.08634
Sigma 5.925 ± 1.386
t tw corr [ns]

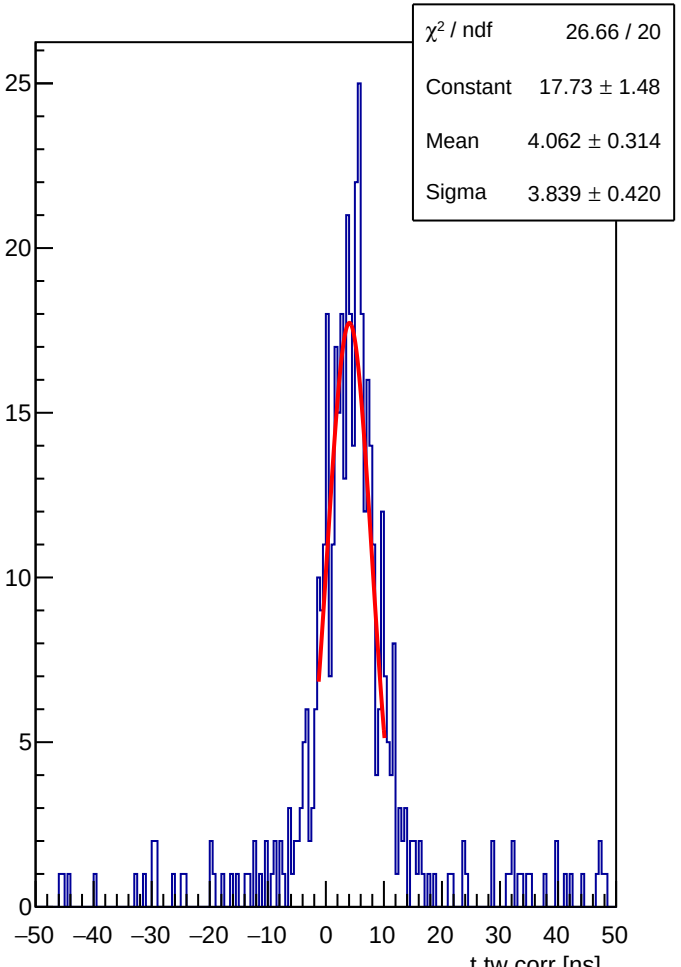

HCAL block 049 : t
χ² / ndf 48.89 / 23
Constant 12.98 ± 1.21
Mean 0.7477 ± 0.2834
Sigma 3.409 ± 0.286
t [ns]

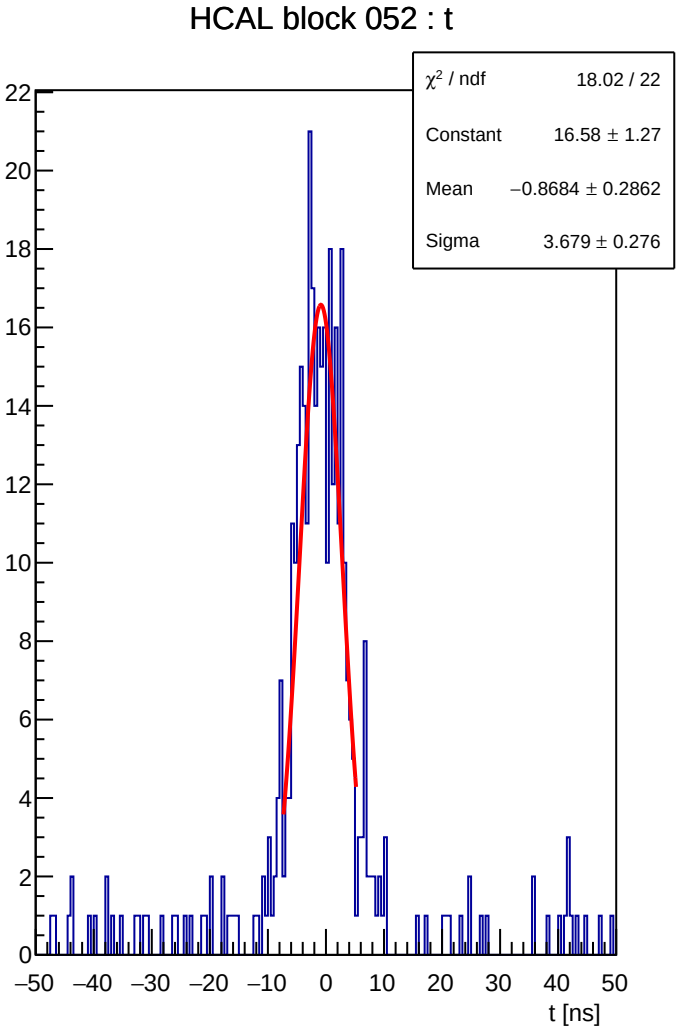

HCAL block 049 : t tw corr
χ² / ndf 24.63 / 22
Constant 13.88 ± 1.25
Mean 0.2553 ± 0.3271
Sigma 3.81± 0.39
t tw corr [ns]

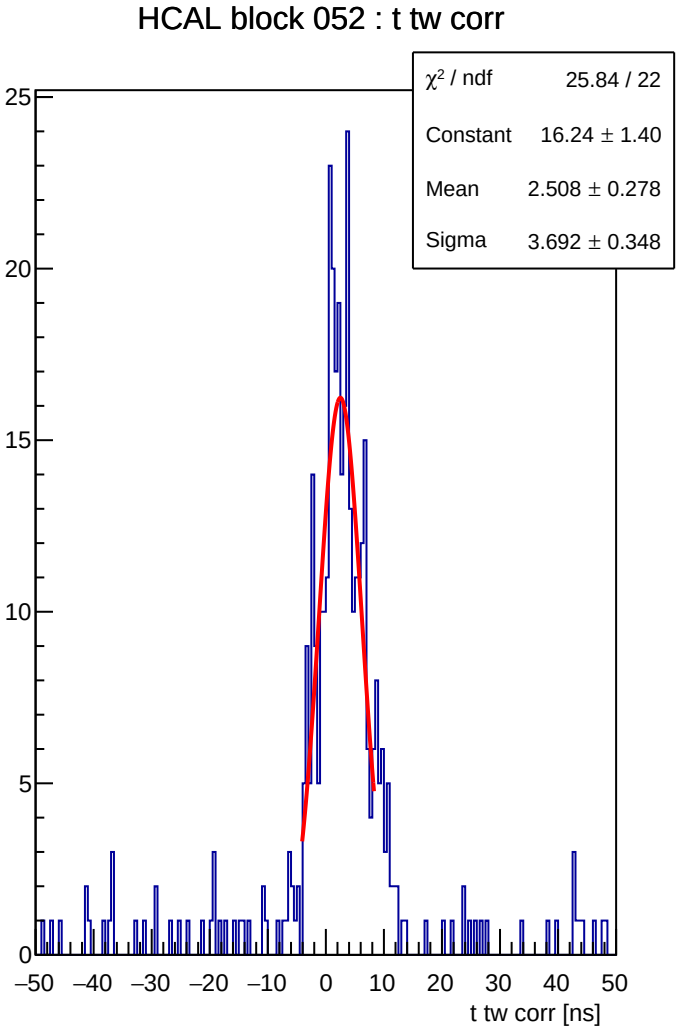

HCAL block 050 : t
χ² / ndf 25.6 / 20
Constant 13.12 ± 1.15
Mean −1.434 ± 0.814
Sigma 5.685 ± 1.282
t [ns]

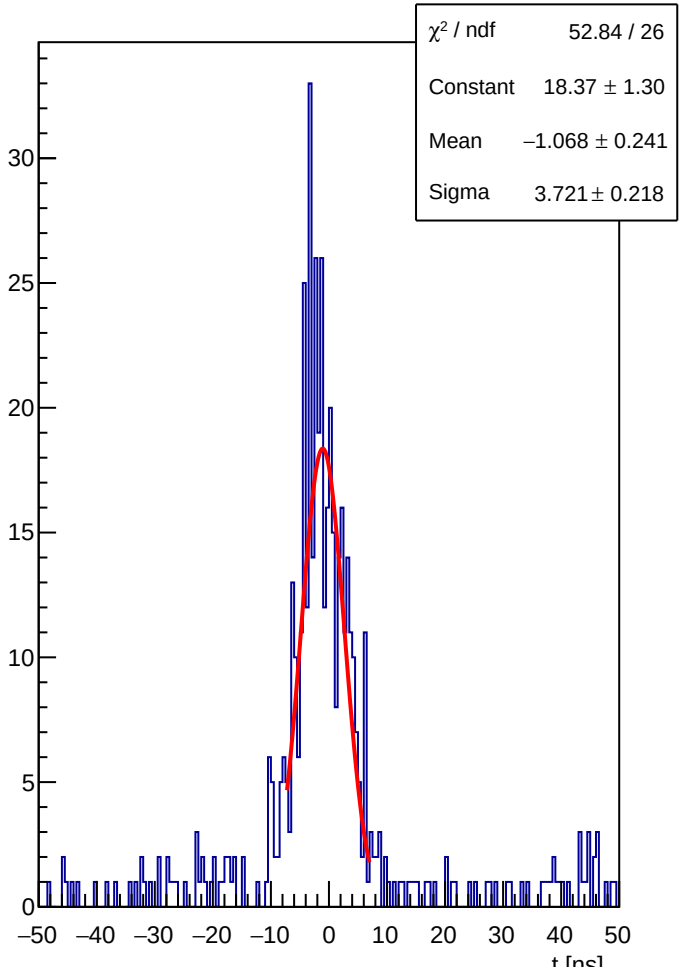

HCAL block 050 : t tw corr
χ² / ndf 15.12 / 20
Constant 15.29 ± 1.25
Mean −0.6938 ± 0.3838
Sigma 4.291 ± 0.499
t tw corr [ns]

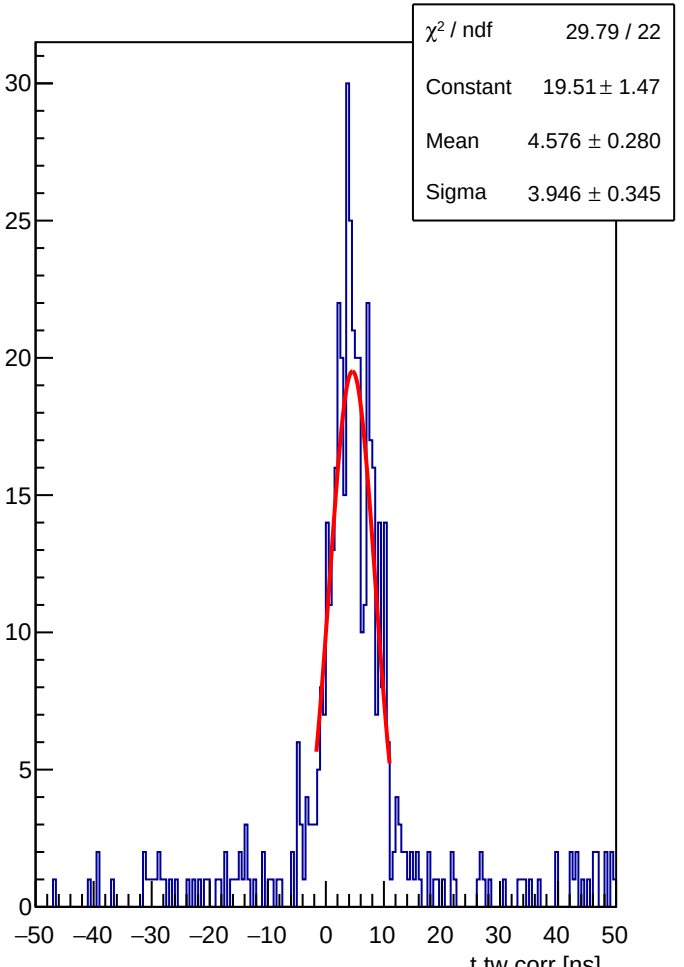

HCAL block 051 : t
χ² / ndf 19.95 / 22
Constant 17.14 ± 1.31
Mean −0.96 ± 0.38
Sigma 4.205 ± 0.427
t [ns]

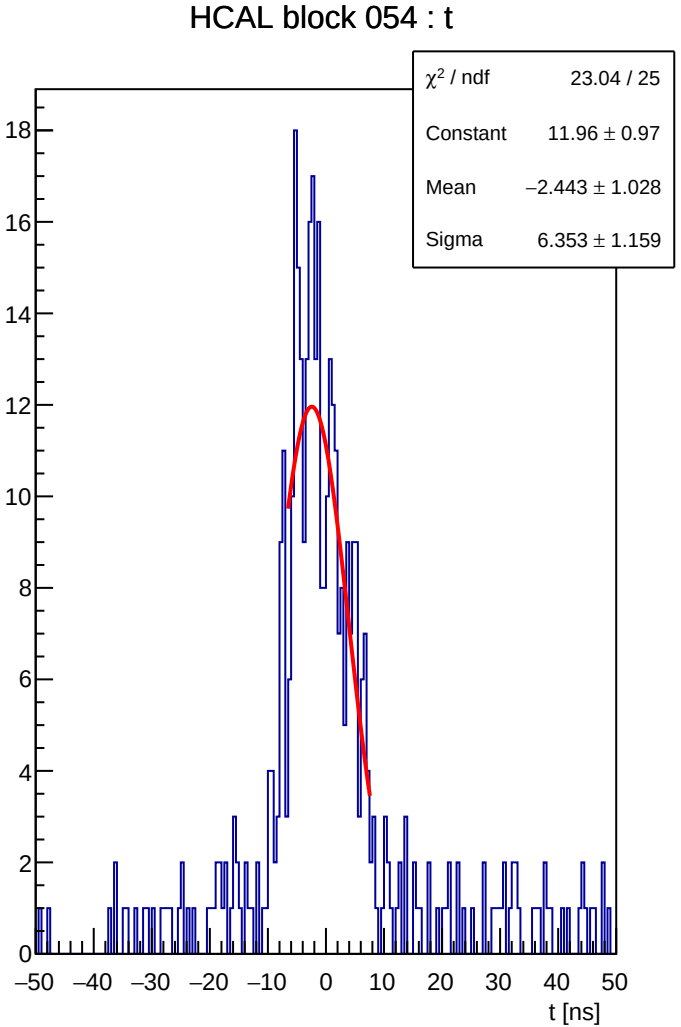

HCAL block 051 : t tw corr
χ² / ndf 26.66 / 20
Constant 17.73 ± 1.48
Mean 4.062 ± 0.314
Sigma 3.839 ± 0.420
t tw corr [ns]

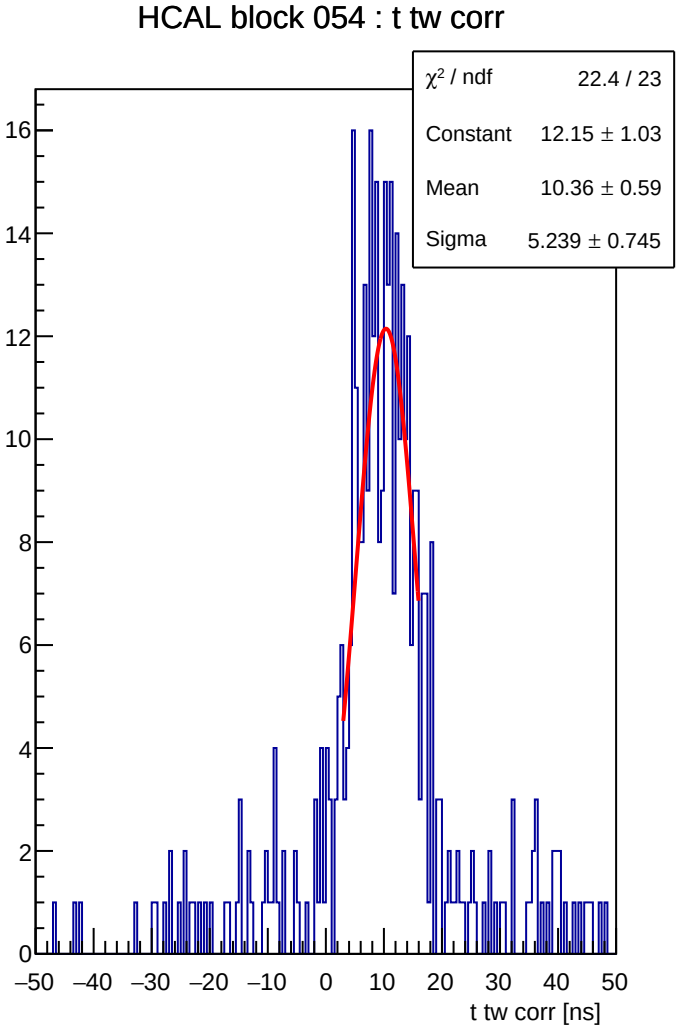

HCAL block 052 : t
χ² / ndf 18.02 / 22
Constant 16.58 ± 1.27
Mean −0.8684 ± 0.2862
Sigma 3.679 ± 0.276
t [ns]

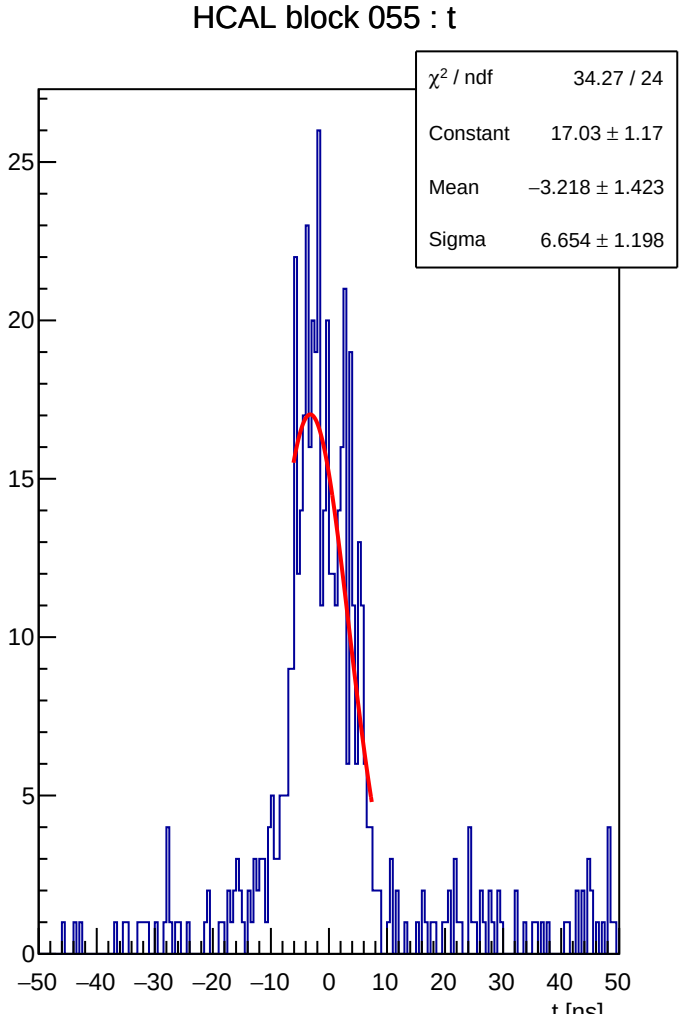

HCAL block 052 : t tw corr
χ² / ndf 25.84 / 22
Constant 16.24 ± 1.40
Mean 2.508 ± 0.278
Sigma 3.692 ± 0.348
t tw corr [ns]

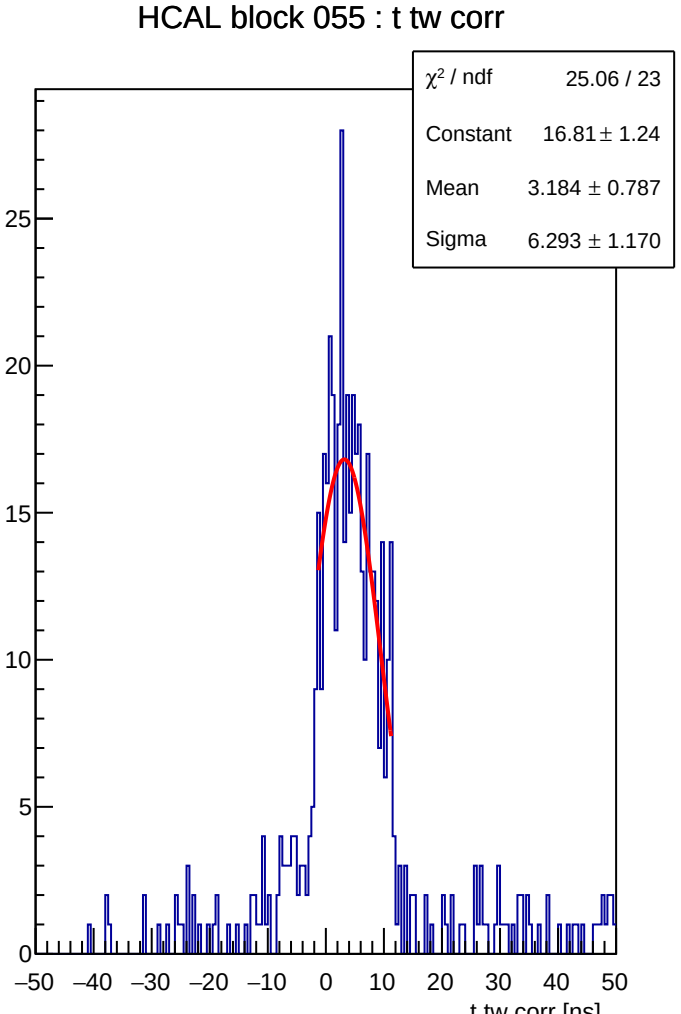

HCAL block 053 : t
χ² / ndf 52.84 / 26
Constant 18.37 ± 1.30
Mean −1.068 ± 0.241
Sigma 3.721 ± 0.218
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

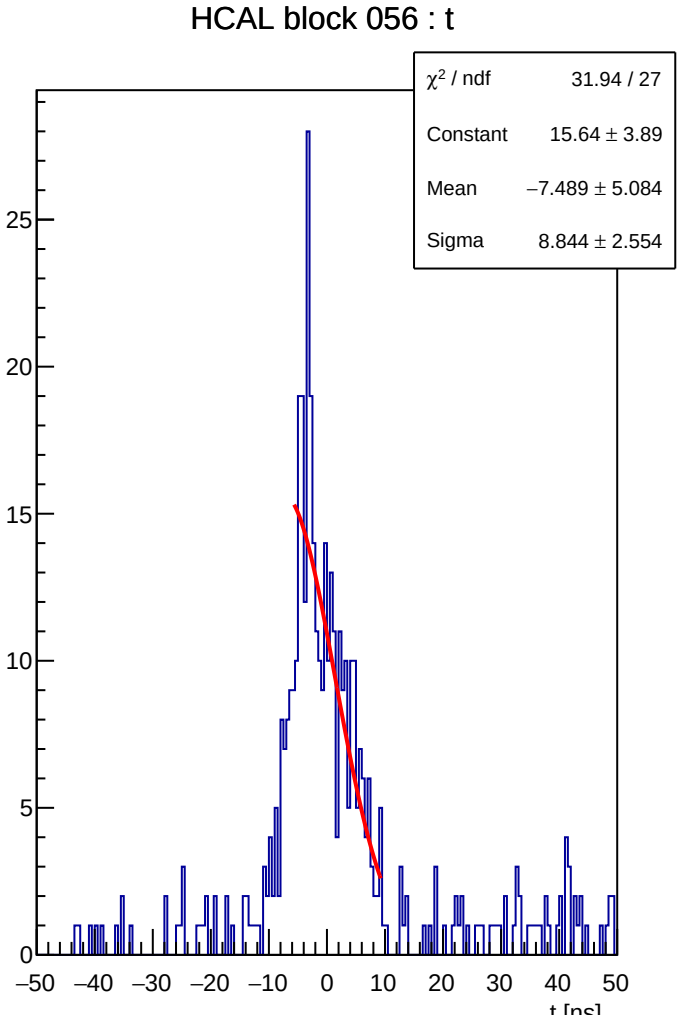

HCAL block 053 : t tw corr
χ² / ndf 29.79 / 22
Constant 19.51 ± 1.47
Mean 4.576 ± 0.280
Sigma 3.946 ± 0.345
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

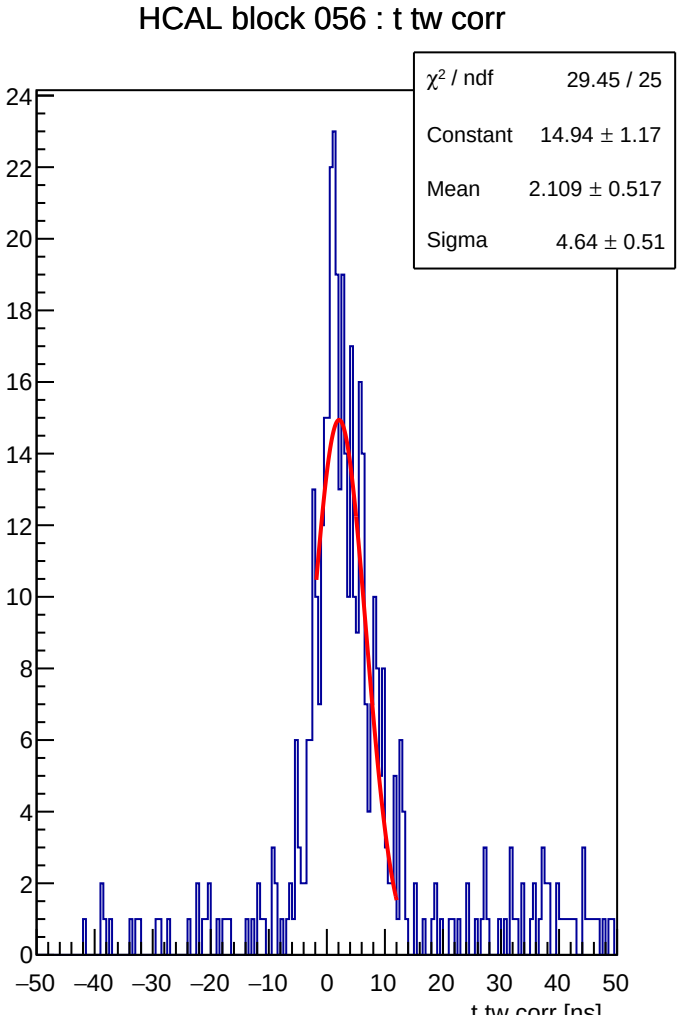

HCAL block 054 : t
χ² / ndf 23.04 / 25
Constant 11.96 ± 0.97
Mean −2.443 ± 1.028
Sigma 6.353 ± 1.159
18
16
14
12
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

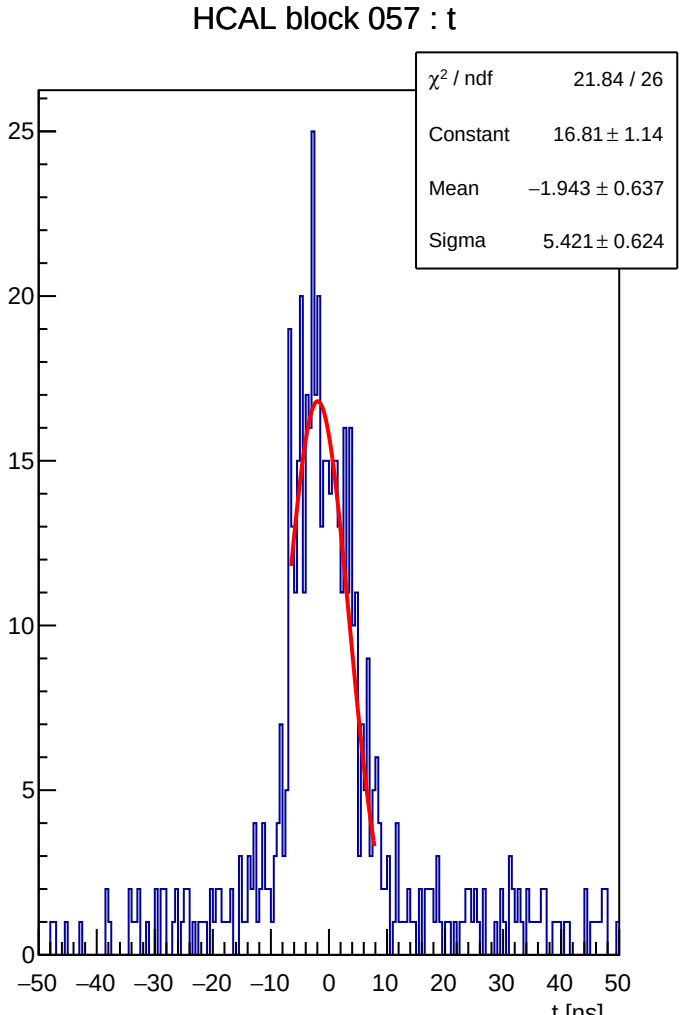

HCAL block 054 : t tw corr
χ² / ndf 22.4 / 23
Constant 12.15 ± 1.03
Mean 10.36 ± 0.59
Sigma 5.239 ± 0.745
16
14
12
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

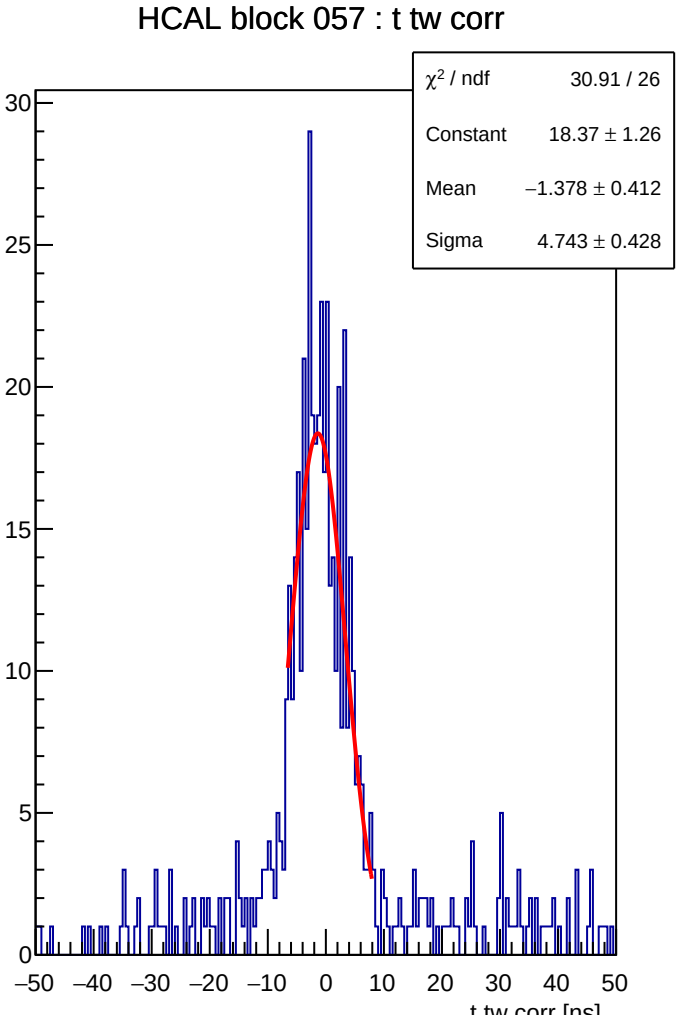

HCAL block 055 : t
χ² / ndf 34.27 / 24
Constant 17.03 ± 1.17
Mean −3.218 ± 1.423
Sigma 6.654 ± 1.198
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

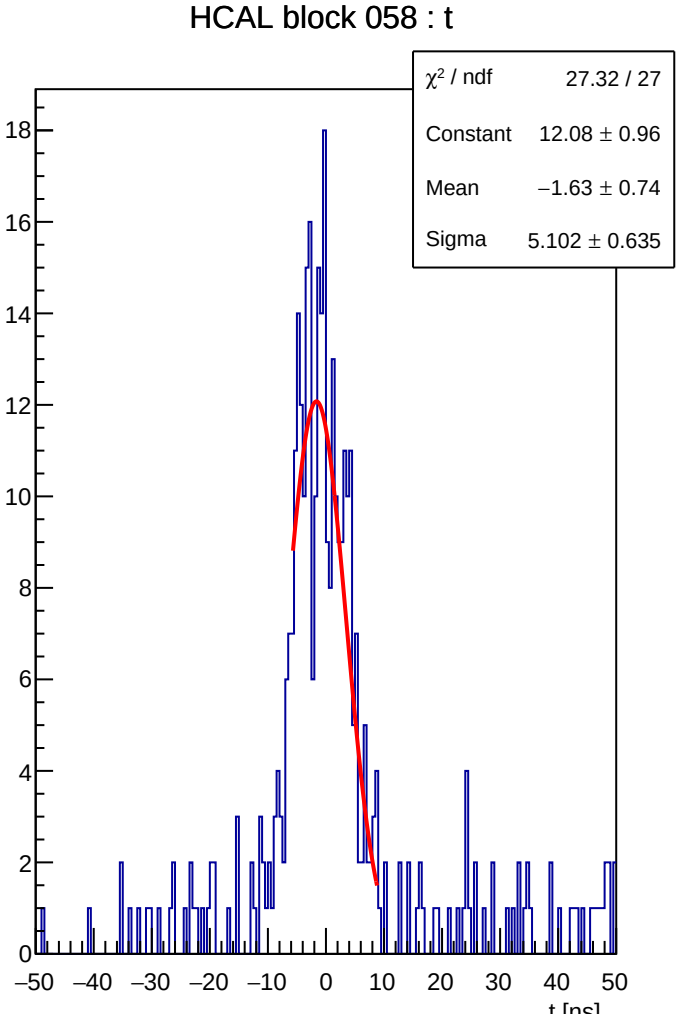

HCAL block 055 : t tw corr
χ² / ndf 25.06 / 23
Constant 16.81 ± 1.24
Mean 3.184 ± 0.787
Sigma 6.293 ± 1.170
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

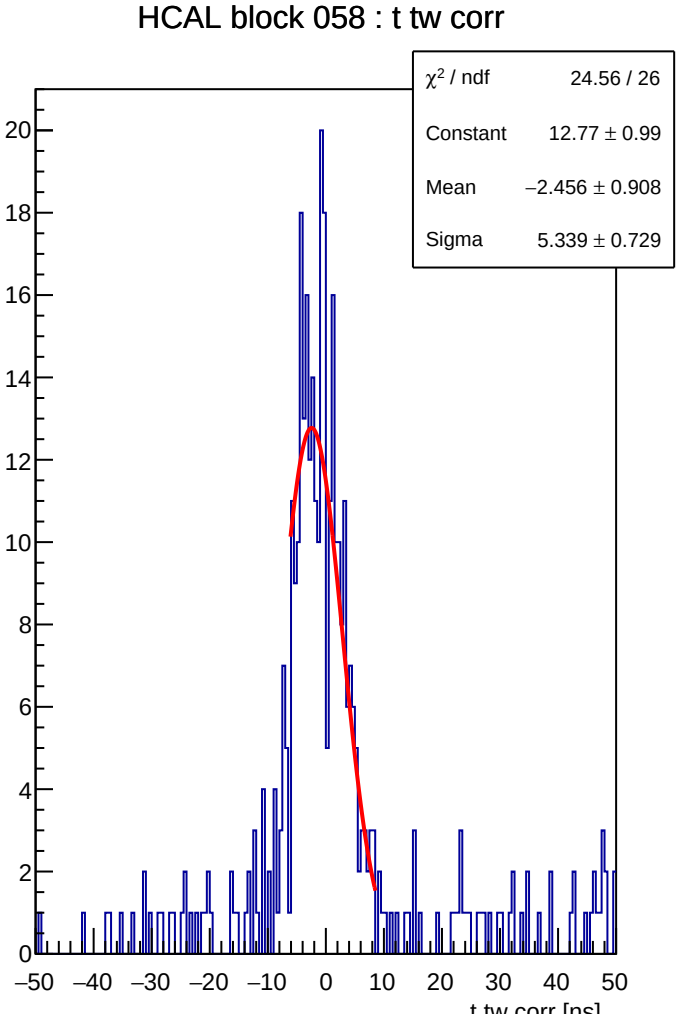

HCAL block 056 : t
χ² / ndf 31.94 / 27
Constant 15.64 ± 3.89
Mean −7.489 ± 5.084
Sigma 8.844 ± 2.554
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

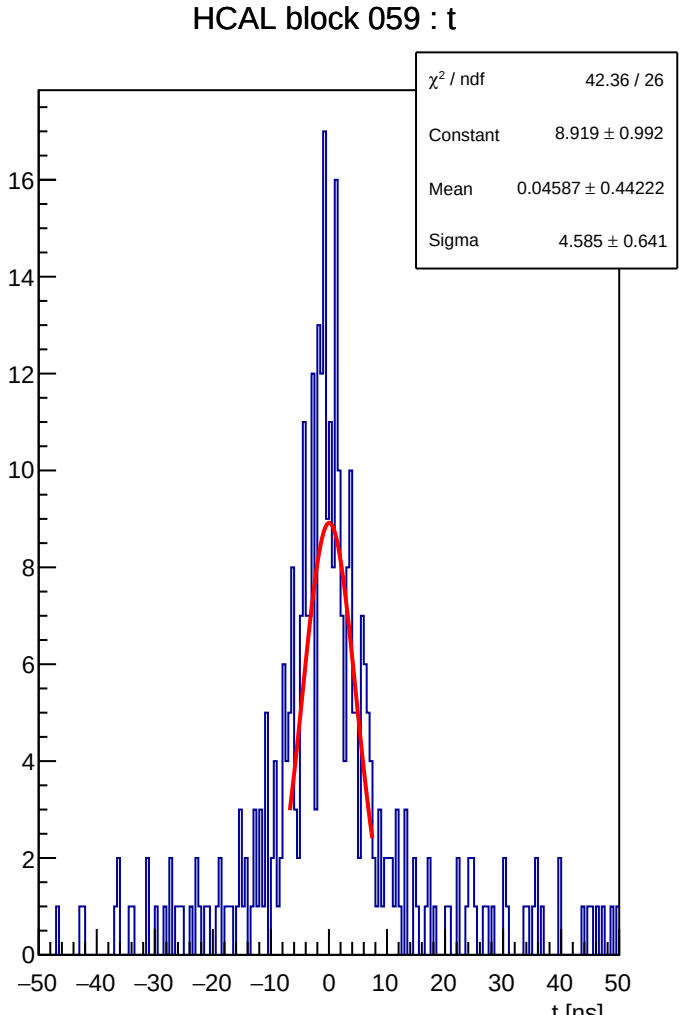

HCAL block 056 : t tw corr
χ² / ndf 29.45 / 25
Constant 14.94 ± 1.17
Mean 2.109 ± 0.517
Sigma 4.64 ± 0.51
24
22
20
18
16
14
12
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

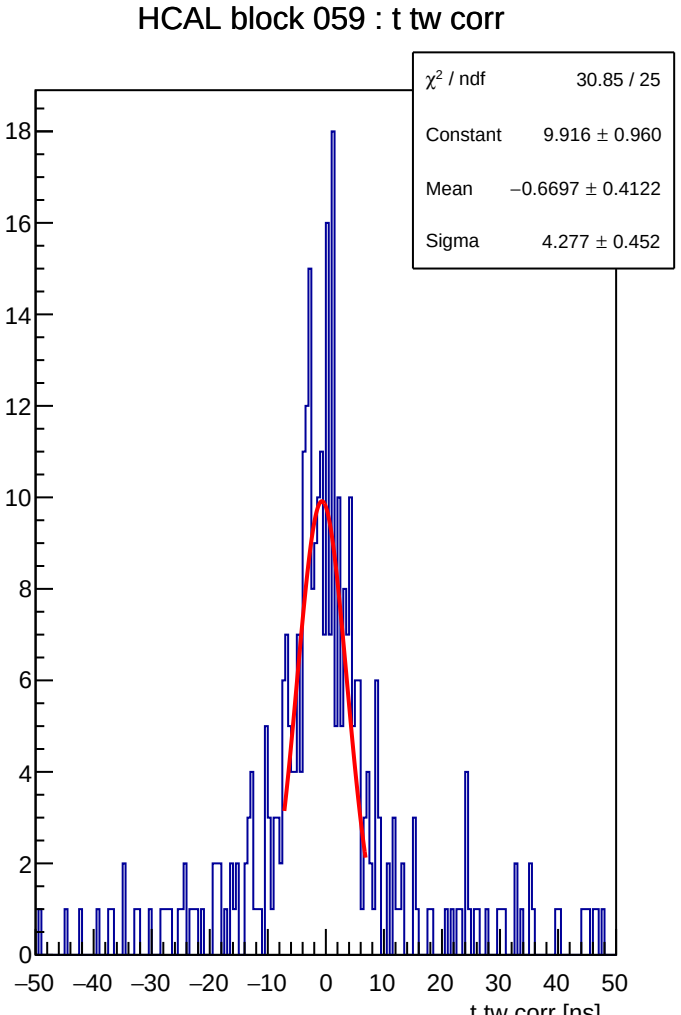

HCAL block 057 : t
χ² / ndf 21.84 / 26
Constant 16.81 ± 1.14
Mean −1.943 ± 0.637
Sigma 5.421 ± 0.624
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

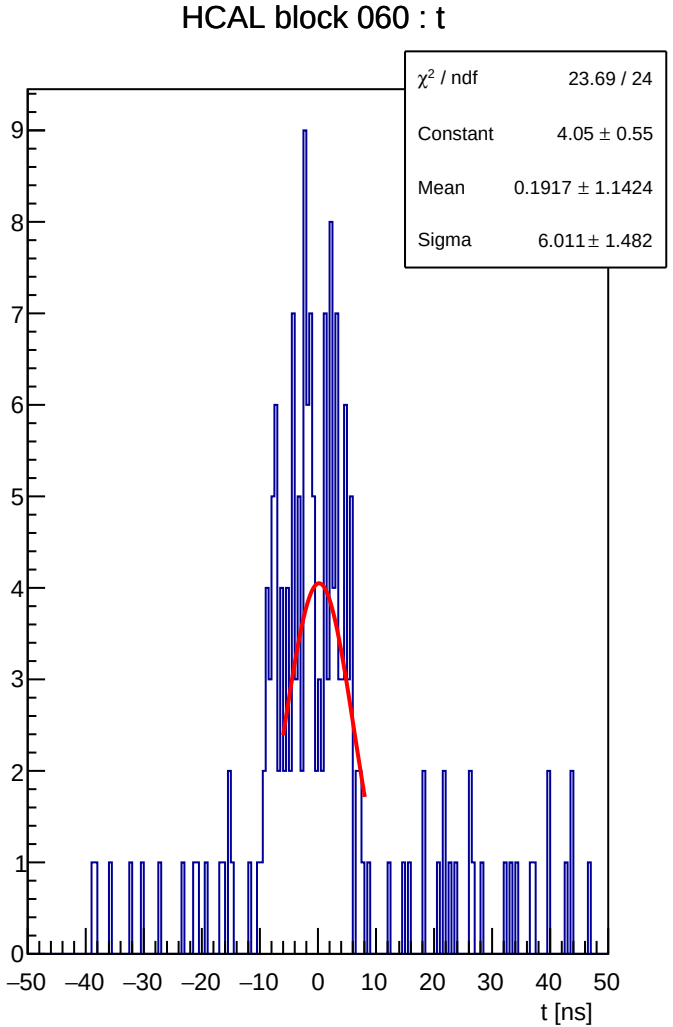

HCAL block 057 : t tw corr
χ² / ndf 30.91 / 26
Constant 18.37 ± 1.26
Mean −1.378 ± 0.412
Sigma 4.743 ± 0.428
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

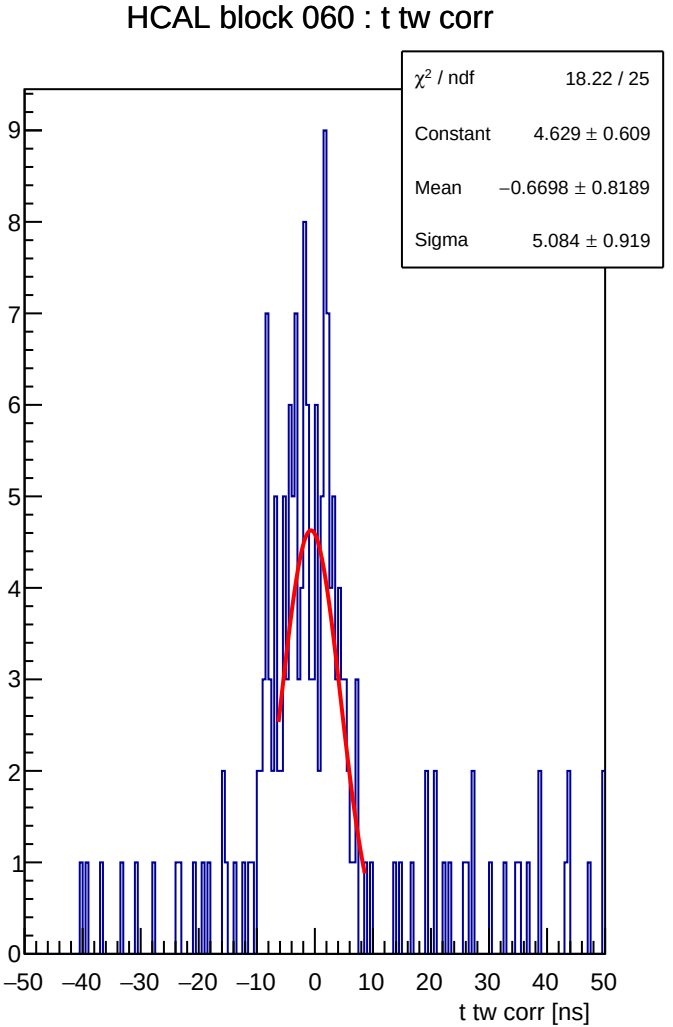

HCAL block 058 : t
χ² / ndf 27.32 / 27
Constant 12.08 ± 0.96
Mean −1.63 ± 0.74
Sigma 5.102 ± 0.635
t [ns]

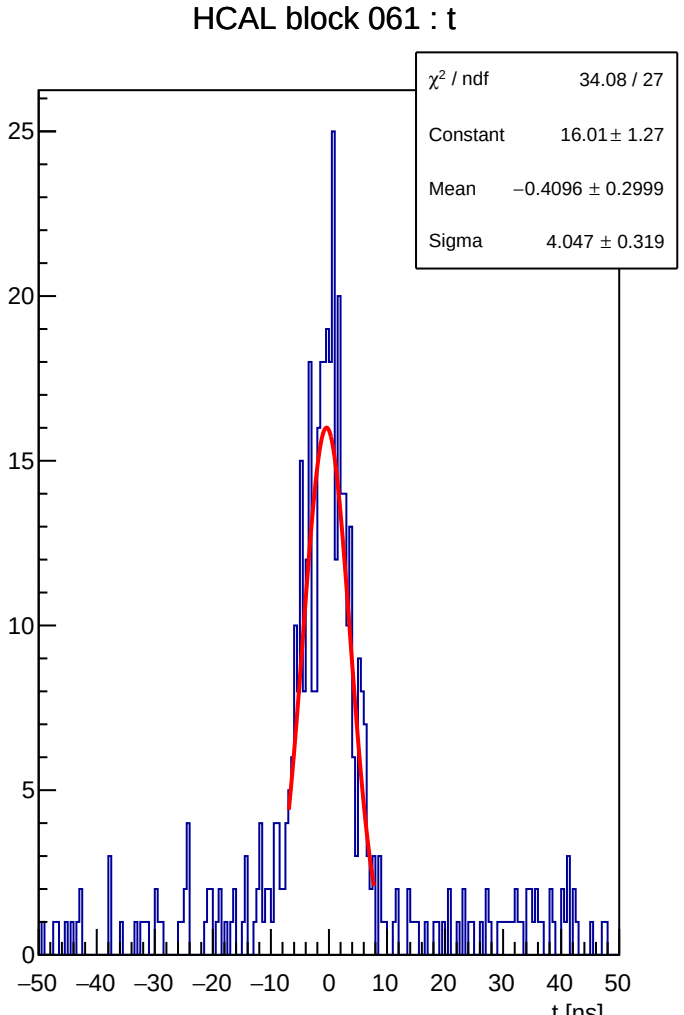

HCAL block 058 : t tw corr
χ² / ndf 24.56 / 26
Constant 12.77 ± 0.99
Mean −2.456 ± 0.908
Sigma 5.339 ± 0.729
t tw corr [ns]

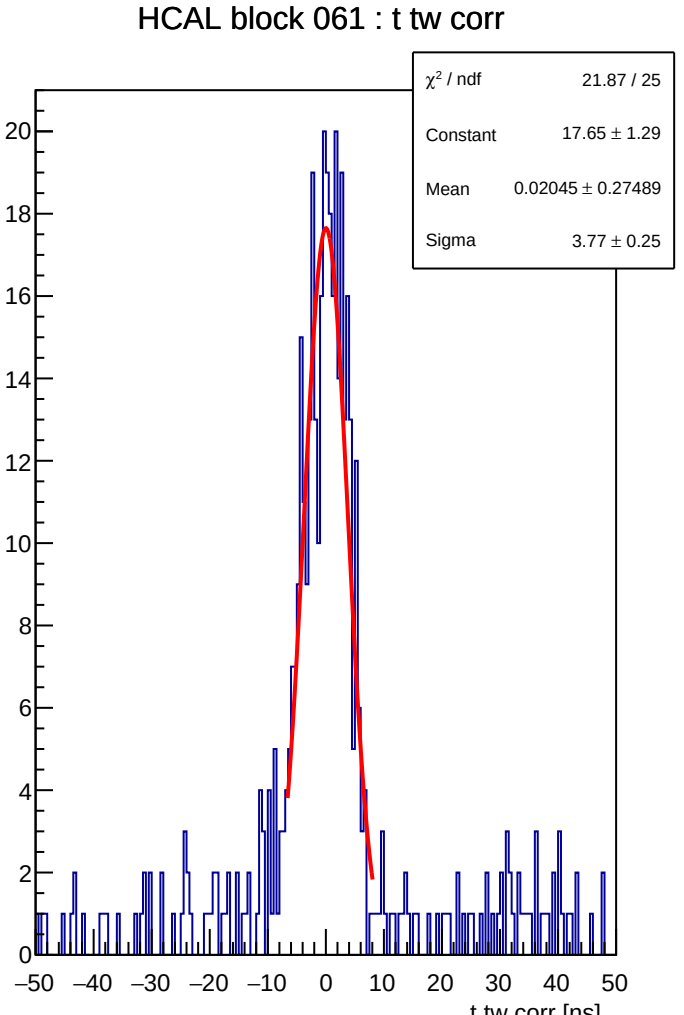

HCAL block 059 : t
χ² / ndf 42.36 / 26
Constant 8.919 ± 0.992
Mean 0.04587 ± 0.44222
Sigma 4.585 ± 0.641
t [ns]

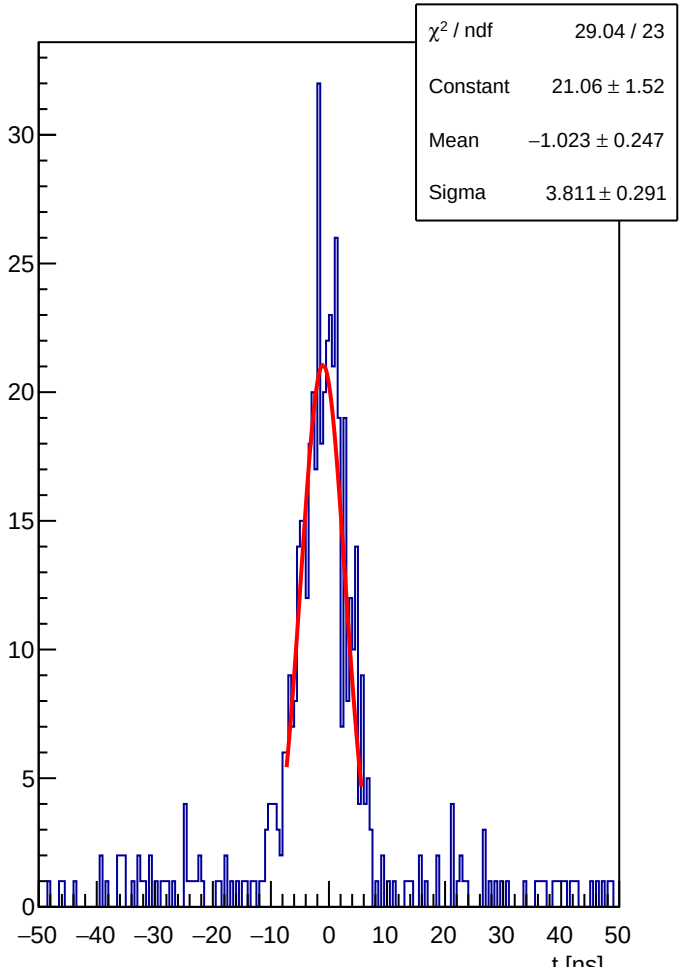

HCAL block 059 : t tw corr
χ² / ndf 30.85 / 25
Constant 9.916 ± 0.960
Mean −0.6697 ± 0.4122
Sigma 4.277 ± 0.452
t tw corr [ns]

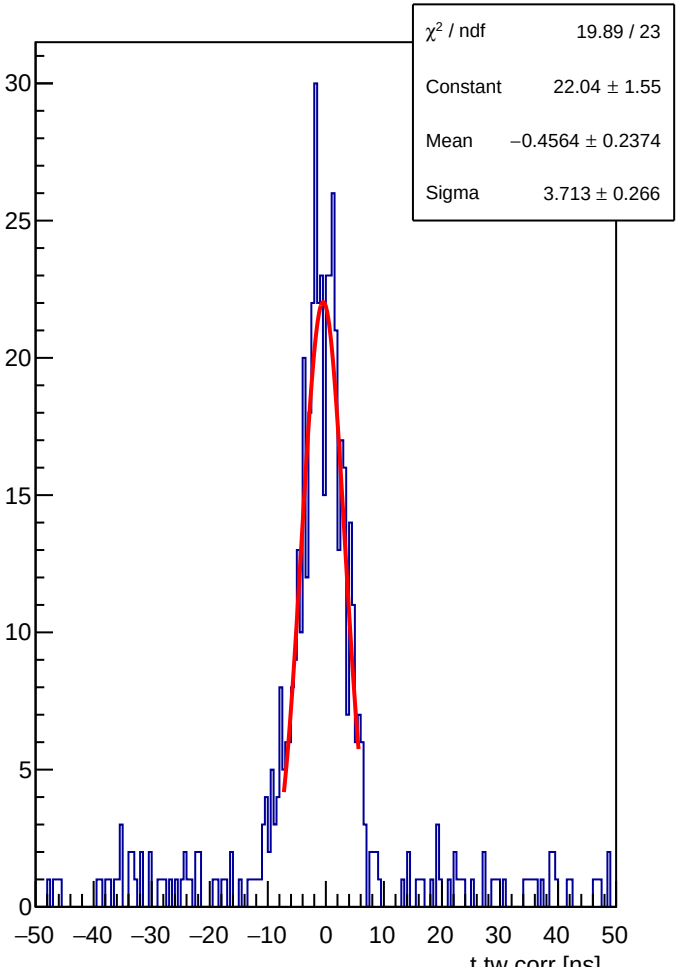

HCAL block 060 : t
χ² / ndf 23.69 / 24
Constant 4.05 ± 0.55
Mean 0.1917 ± 1.1424
Sigma 6.011 ± 1.482
t [ns]

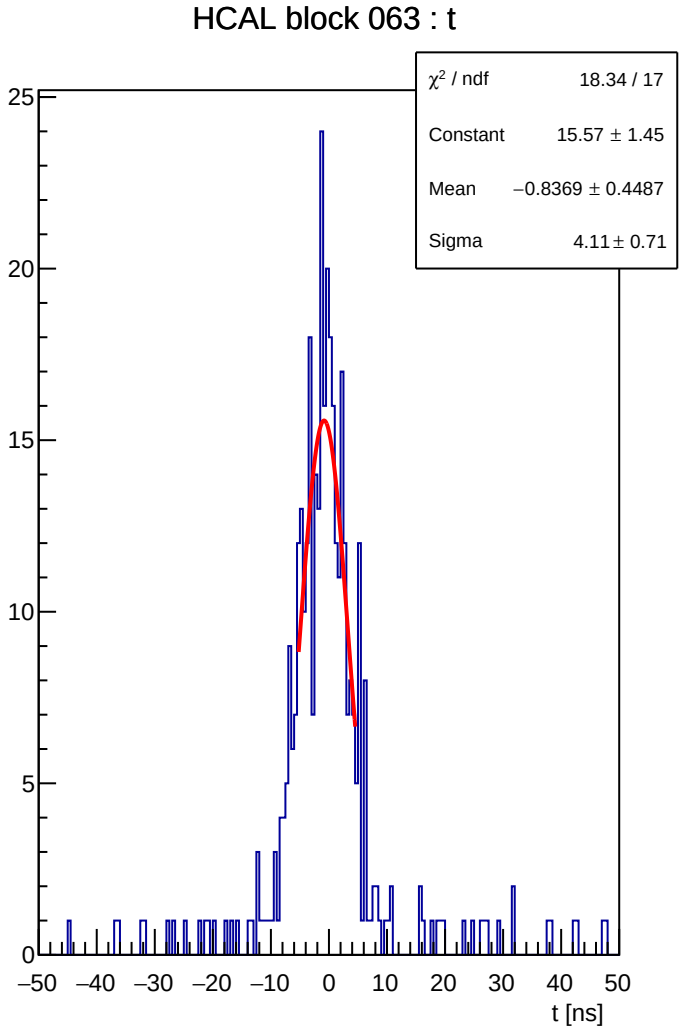

HCAL block 060 : t tw corr
χ² / ndf 18.22 / 25
Constant 4.629 ± 0.609
Mean −0.6698 ± 0.8189
Sigma 5.084 ± 0.919
t tw corr [ns]

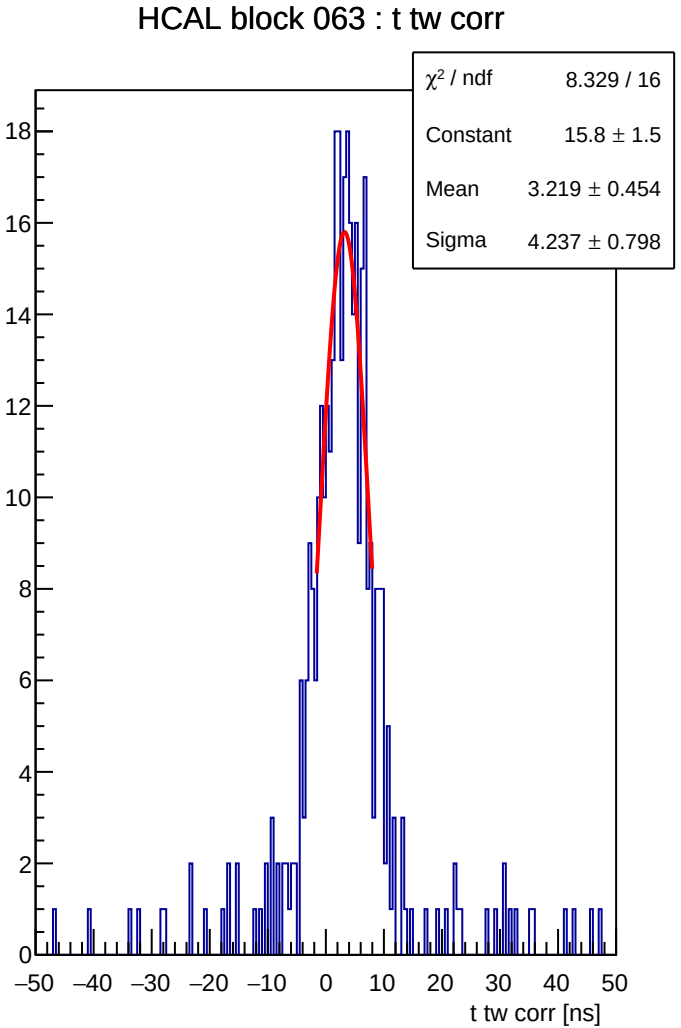

HCAL block 061 : t
χ² / ndf 34.08 / 27
Constant 16.01 ± 1.27
Mean −0.4096 ± 0.2999
Sigma 4.047 ± 0.319
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

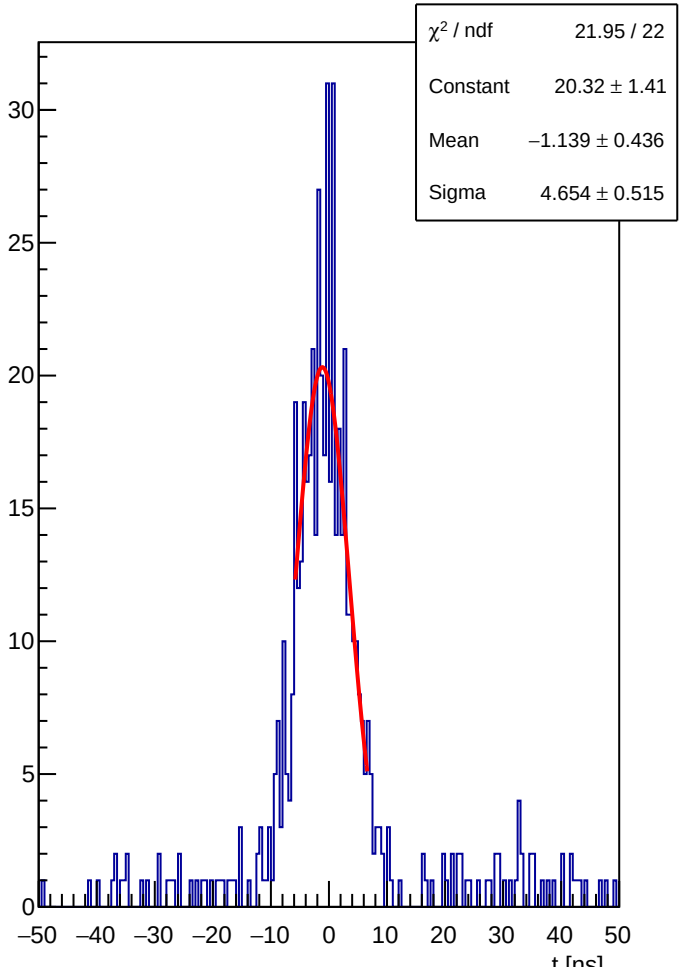

HCAL block 061 : t tw corr
χ² / ndf 21.87 / 25
Constant 17.65 ± 1.29
Mean 0.02045 ± 0.27489
Sigma 3.77 ± 0.25
20
18
16
14
12
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

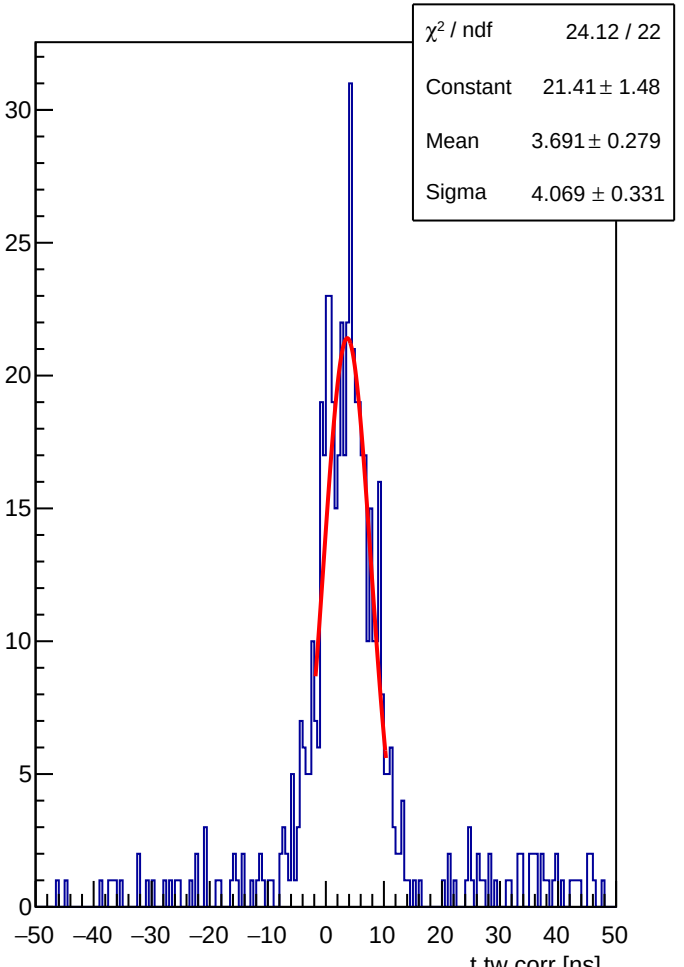

HCAL block 062 : t
χ² / ndf 29.04 / 23
Constant 21.06 ± 1.52
Mean −1.023 ± 0.247
Sigma 3.811 ± 0.291
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

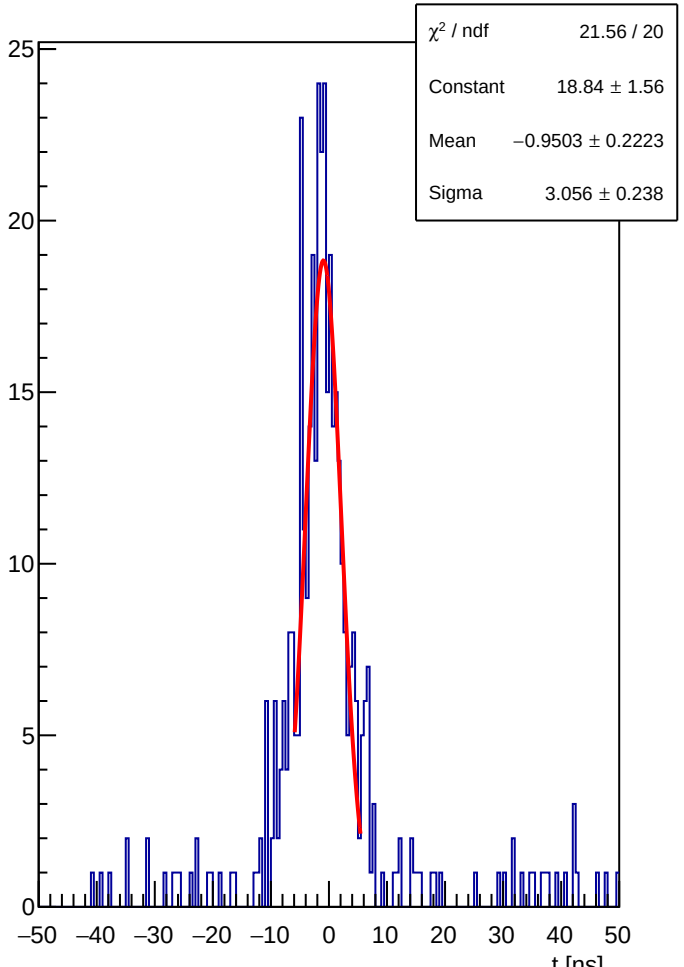

HCAL block 062 : t tw corr
χ² / ndf 19.89 / 23
Constant 22.04 ± 1.55
Mean −0.4564 ± 0.2374
Sigma 3.713 ± 0.266
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

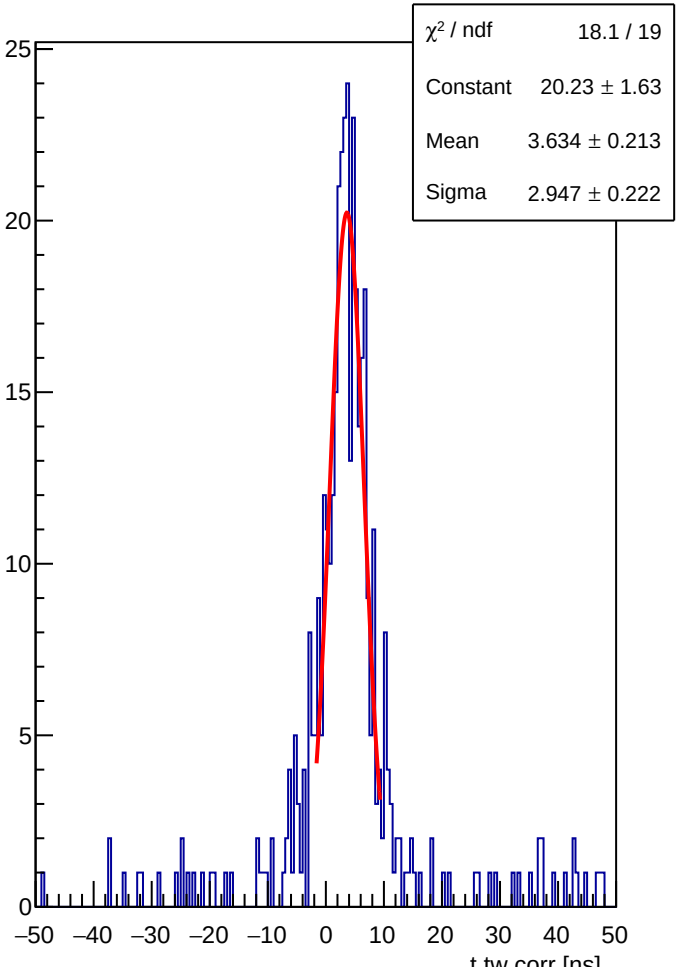

HCAL block 063 : t
χ² / ndf 18.34 / 17
Constant 15.57 ± 1.45
Mean −0.8369 ± 0.4487
Sigma 4.11 ± 0.71
t [ns]

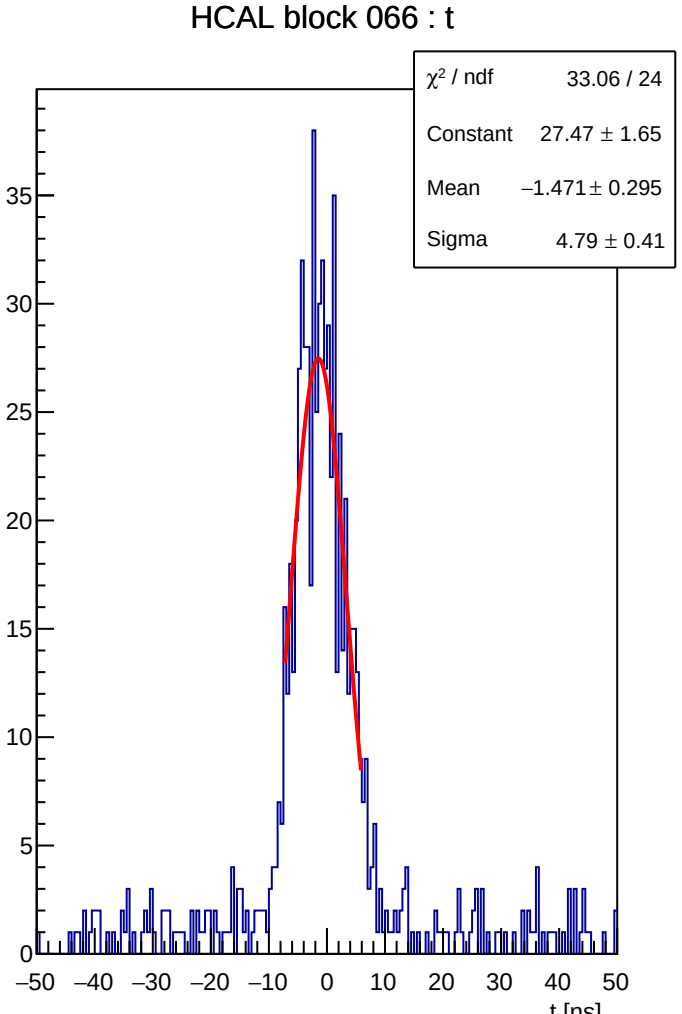

HCAL block 063 : t tw corr
χ² / ndf 8.329 / 16
Constant 15.8 ± 1.5
Mean 3.219 ± 0.454
Sigma 4.237 ± 0.798
t tw corr [ns]

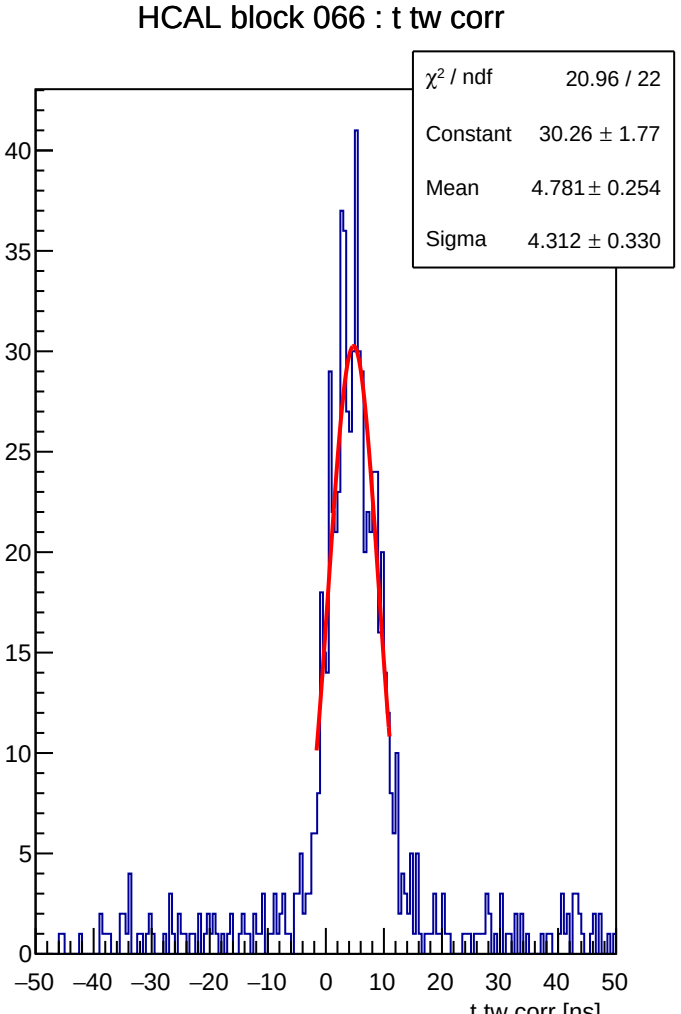

HCAL block 064 : t
χ² / ndf 21.95 / 22
Constant 20.32 ± 1.41
Mean −1.139 ± 0.436
Sigma 4.654 ± 0.515
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

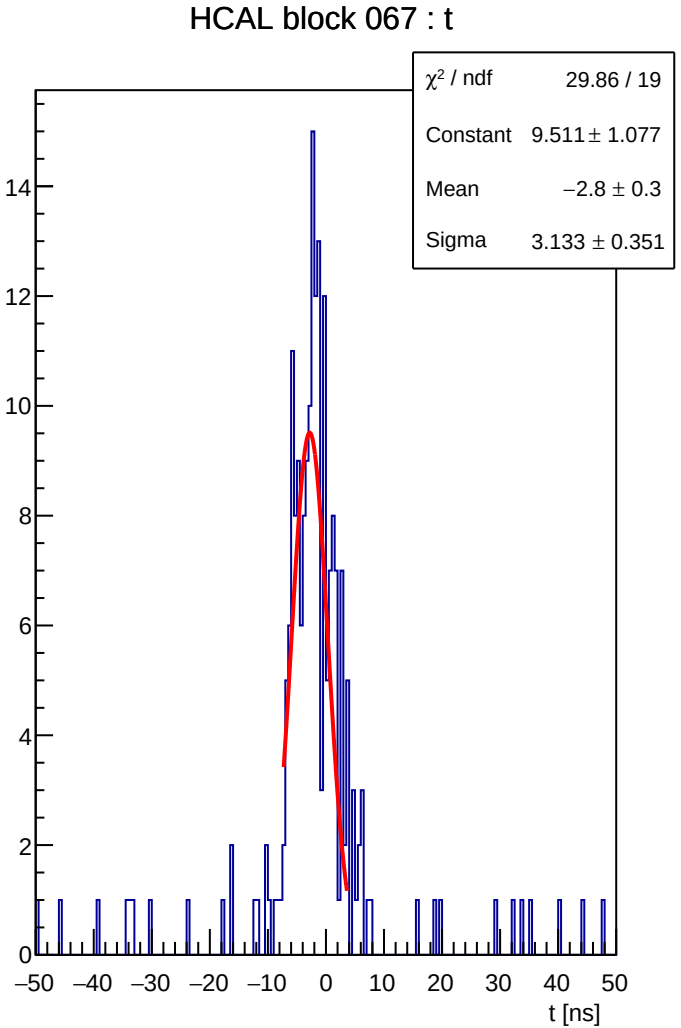

HCAL block 064 : t tw corr
χ² / ndf 24.12 / 22
Constant 21.41 ± 1.48
Mean 3.691 ± 0.279
Sigma 4.069 ± 0.331
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

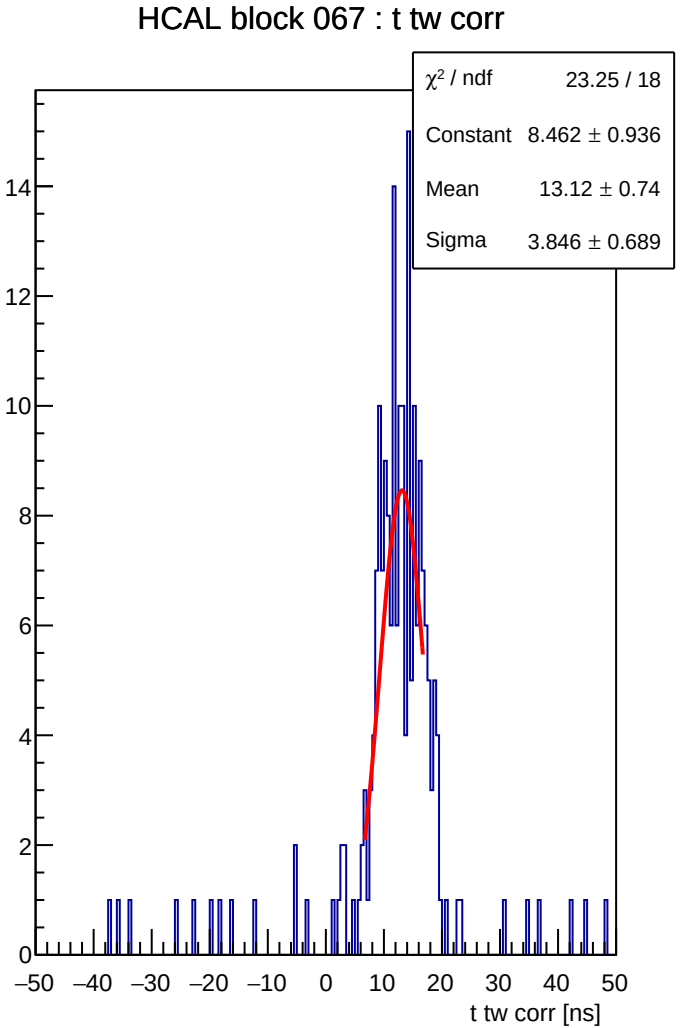

HCAL block 065 : t
χ² / ndf 21.56 / 20
Constant 18.84 ± 1.56
Mean −0.9503 ± 0.2223
Sigma 3.056 ± 0.238
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

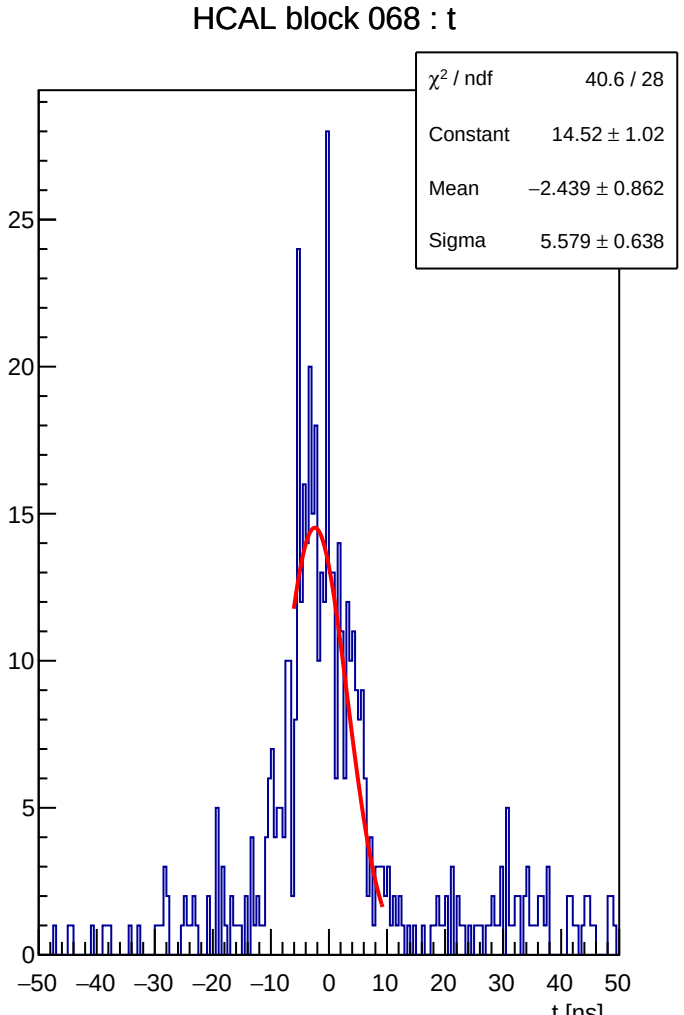

HCAL block 065 : t tw corr
χ² / ndf 18.1 / 19
Constant 20.23 ± 1.63
Mean 3.634 ± 0.213
Sigma 2.947 ± 0.222
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

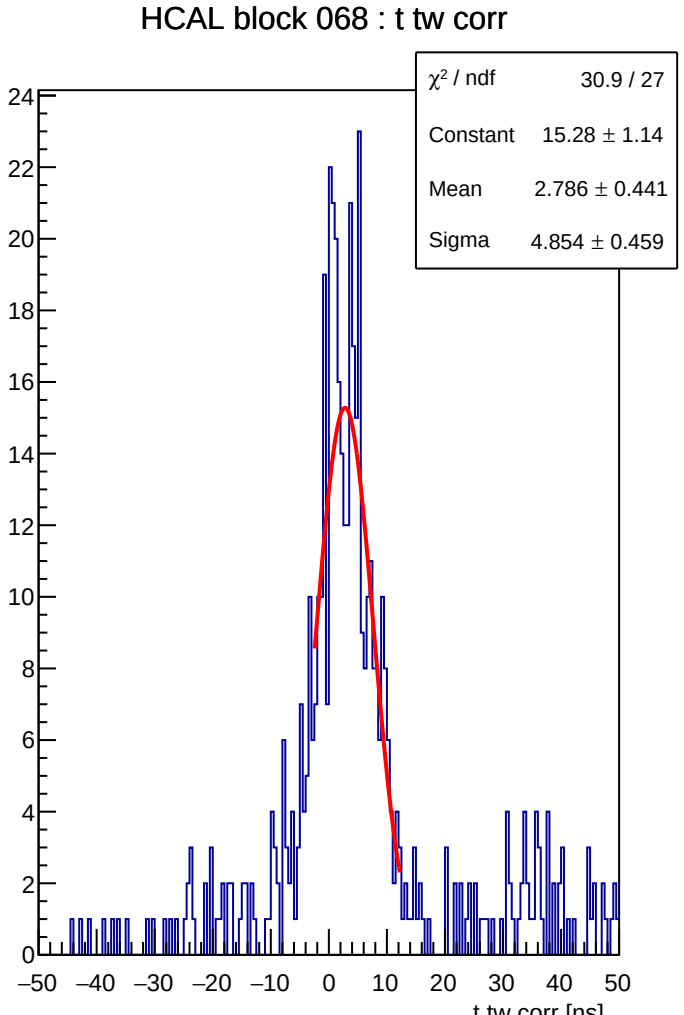

HCAL block 066 : t
χ² / ndf 33.06 / 24
Constant 27.47 ± 1.65
Mean −1.471 ± 0.295
Sigma 4.79 ± 0.41
t [ns]

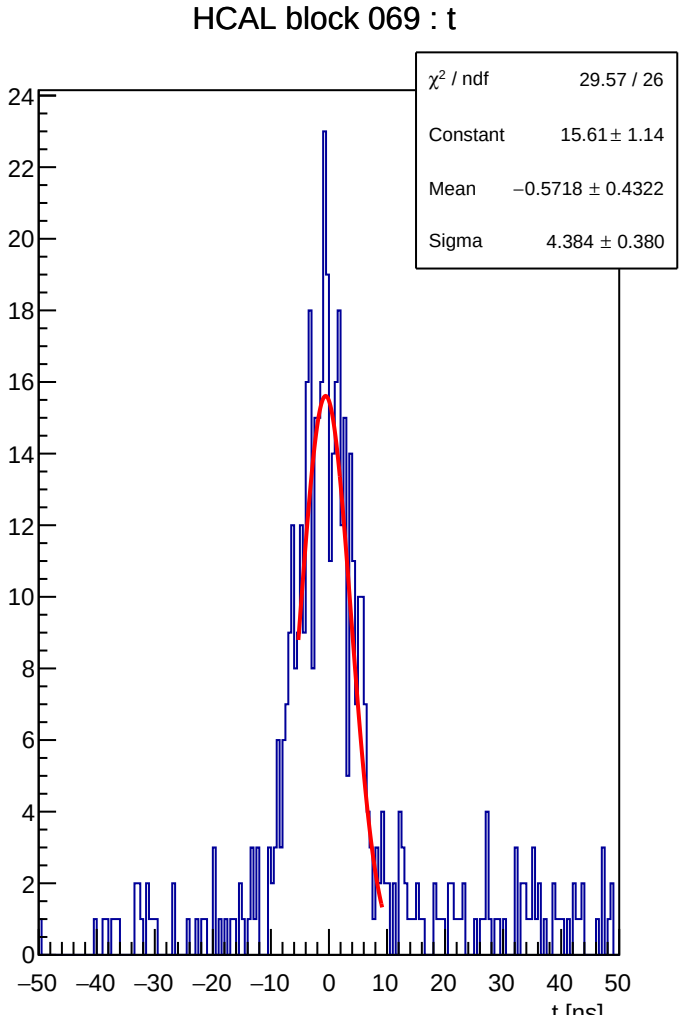

HCAL block 066 : t tw corr
χ² / ndf 20.96 / 22
Constant 30.26 ± 1.77
Mean 4.781 ± 0.254
Sigma 4.312 ± 0.330
t tw corr [ns]

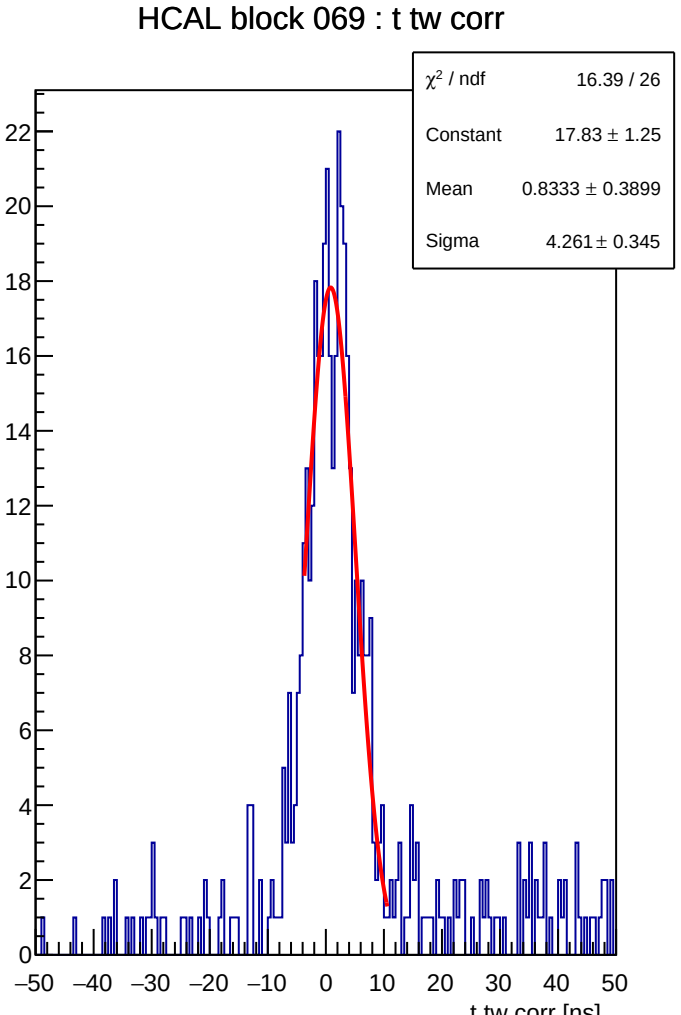

HCAL block 067 : t
χ² / ndf 29.86 / 19
Constant 9.511 ± 1.077
Mean −2.8 ± 0.3
Sigma 3.133 ± 0.351
14
12
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

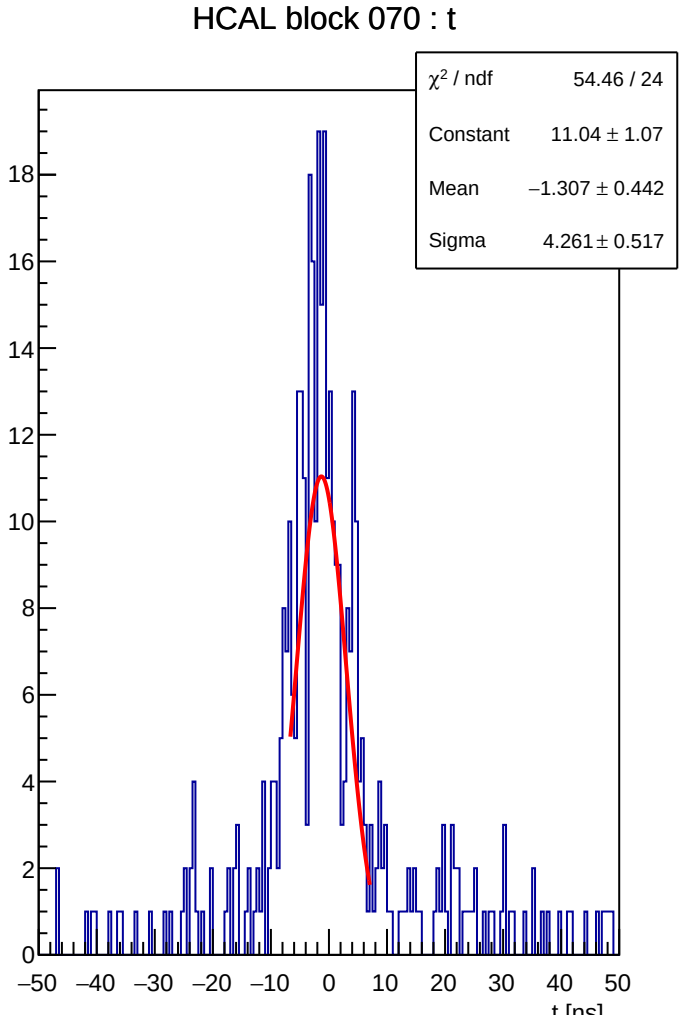

HCAL block 067 : t tw corr
χ² / ndf 23.25 / 18
Constant 8.462 ± 0.936
Mean 13.12 ± 0.74
Sigma 3.846 ± 0.689
14
12
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

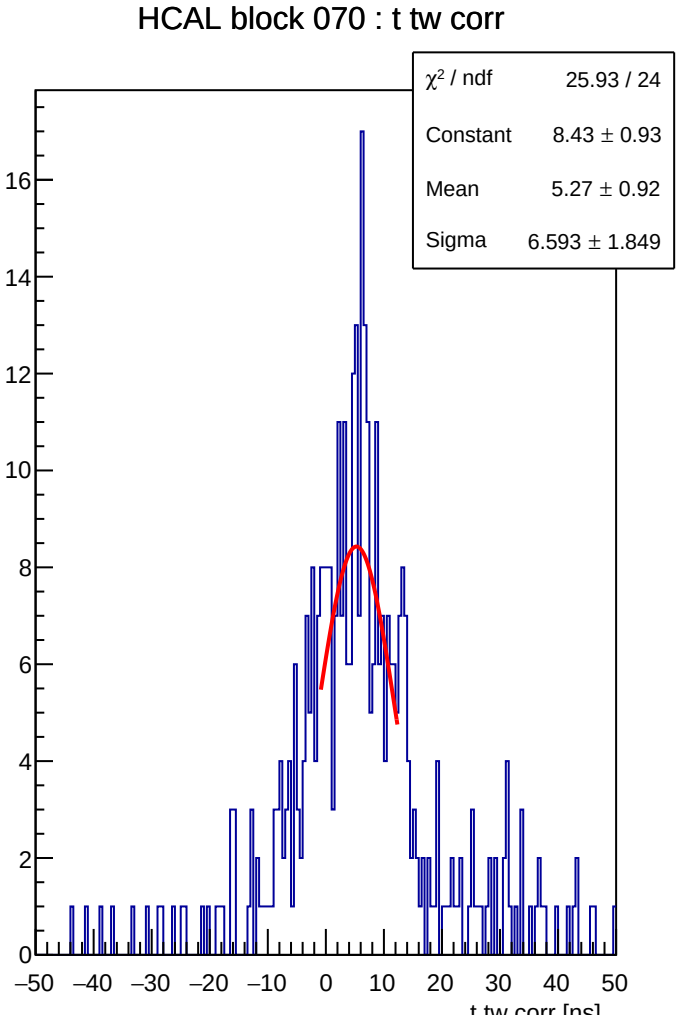

HCAL block 068 : t
χ² / ndf 40.6 / 28
Constant 14.52 ± 1.02
Mean −2.439 ± 0.862
Sigma 5.579 ± 0.638
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

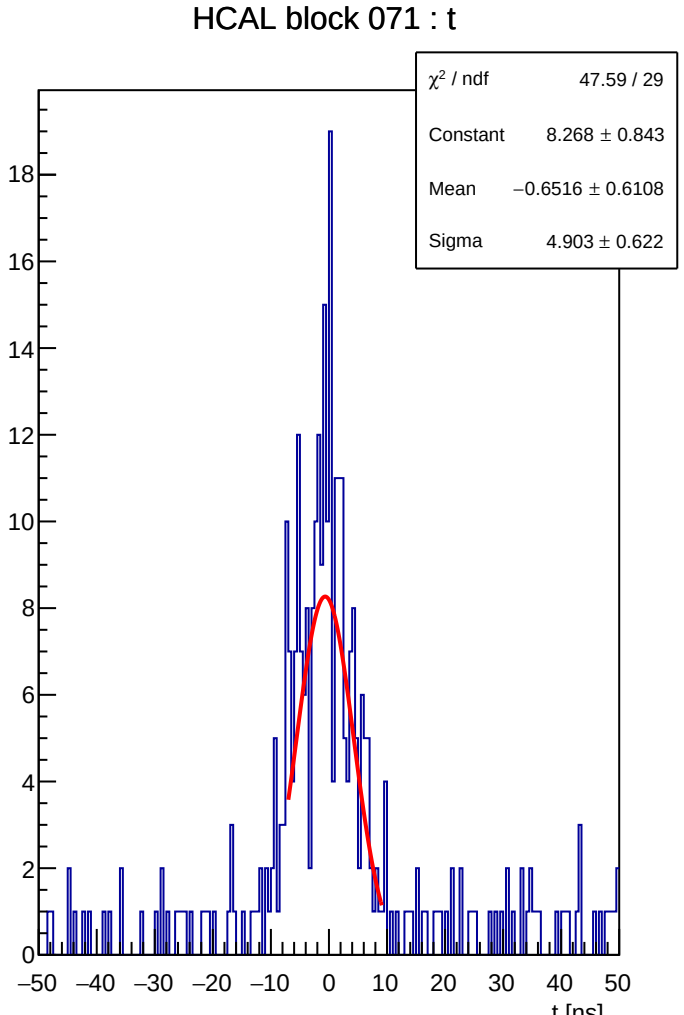

HCAL block 068 : t tw corr
χ² / ndf 30.9 / 27
Constant 15.28 ± 1.14
Mean 2.786 ± 0.441
Sigma 4.854 ± 0.459
24
22
20
18
16
14
12
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

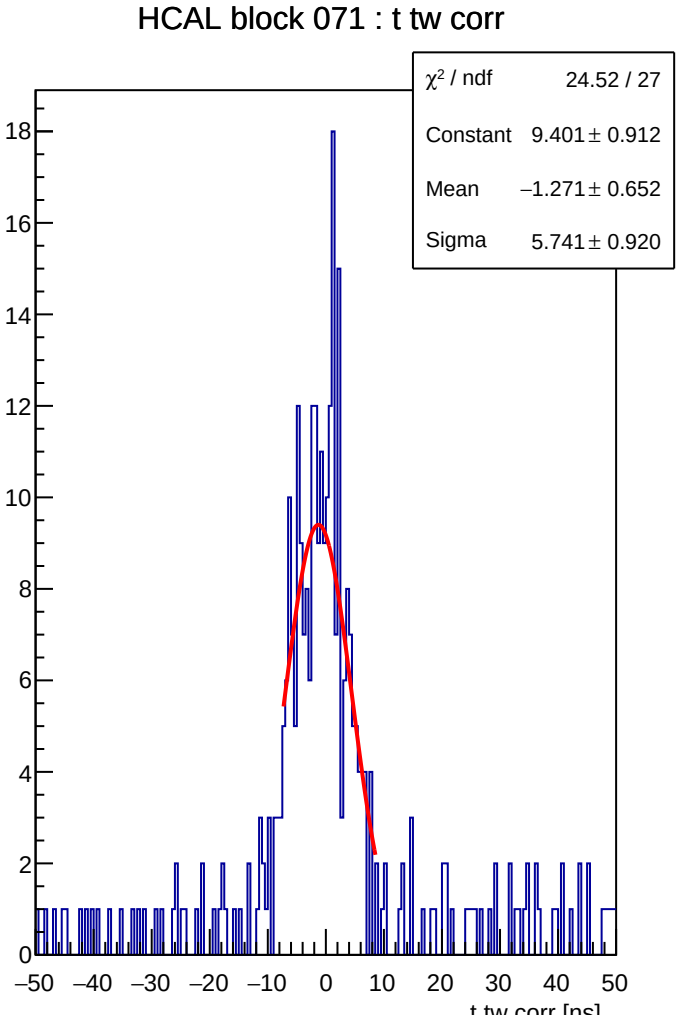

HCAL block 069 : t
χ² / ndf 29.57 / 26
Constant 15.61 ± 1.14
Mean −0.5718 ± 0.4322
Sigma 4.384 ± 0.380
t [ns]

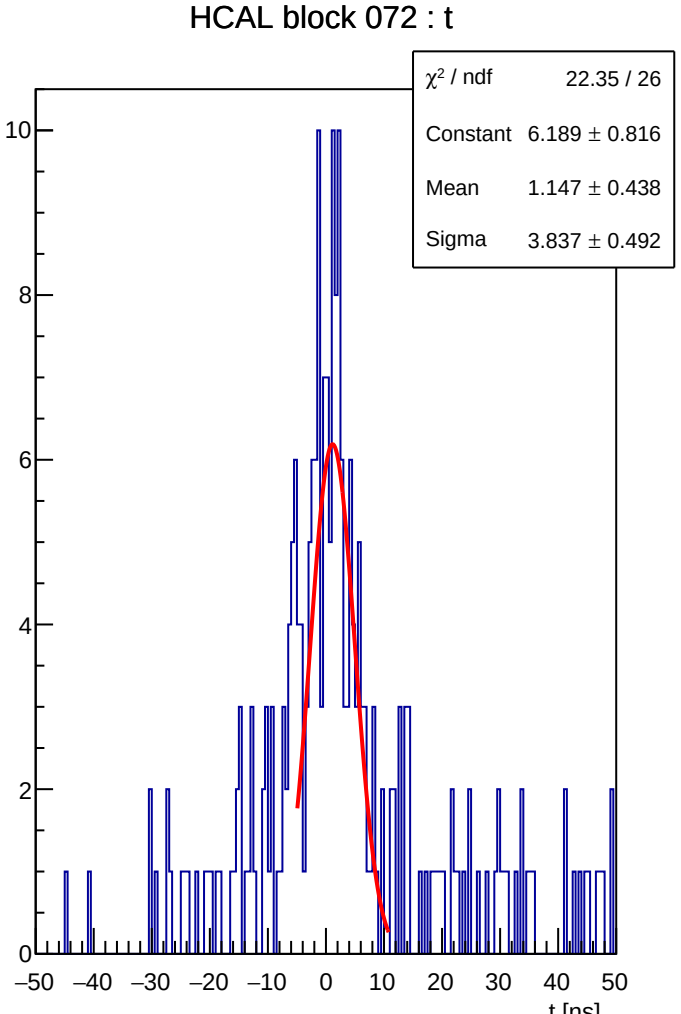

HCAL block 069 : t tw corr
χ² / ndf 16.39 / 26
Constant 17.83 ± 1.25
Mean 0.8333 ± 0.3899
Sigma 4.261 ± 0.345
t tw corr [ns]

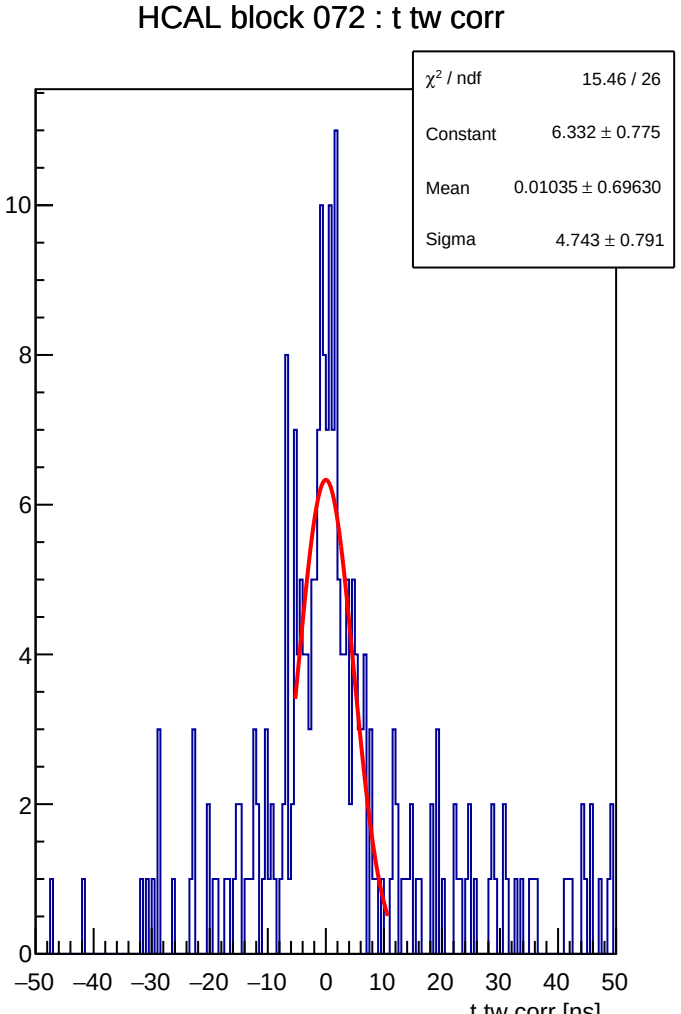

HCAL block 070 : t
χ² / ndf 54.46 / 24
Constant 11.04 ± 1.07
Mean −1.307 ± 0.442
Sigma 4.261 ± 0.517
t [ns]

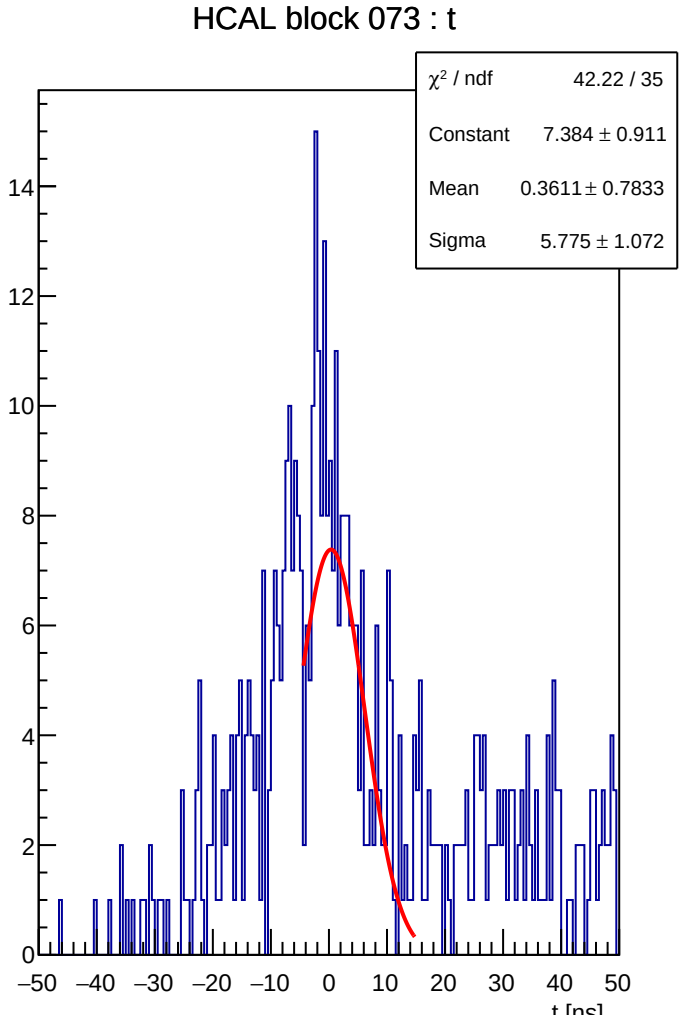

HCAL block 070 : t tw corr
χ² / ndf 25.93 / 24
Constant 8.43 ± 0.93
Mean 5.27 ± 0.92
Sigma 6.593 ± 1.849
t tw corr [ns]

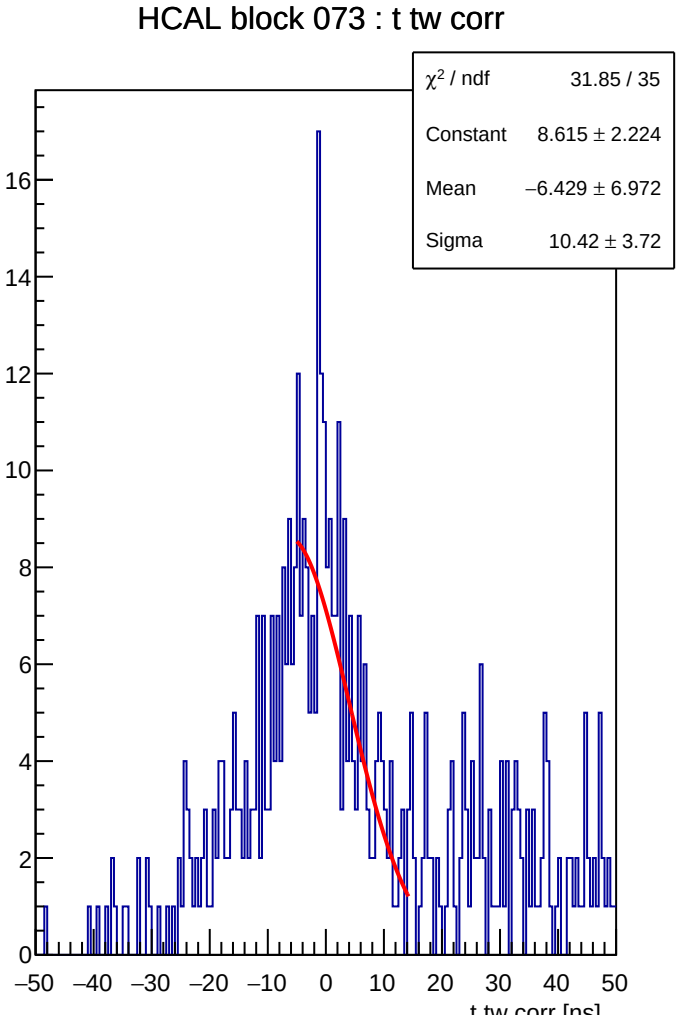

HCAL block 071 : t
χ² / ndf 47.59 / 29
Constant 8.268 ± 0.843
Mean −0.6516 ± 0.6108
Sigma 4.903 ± 0.622
t [ns]

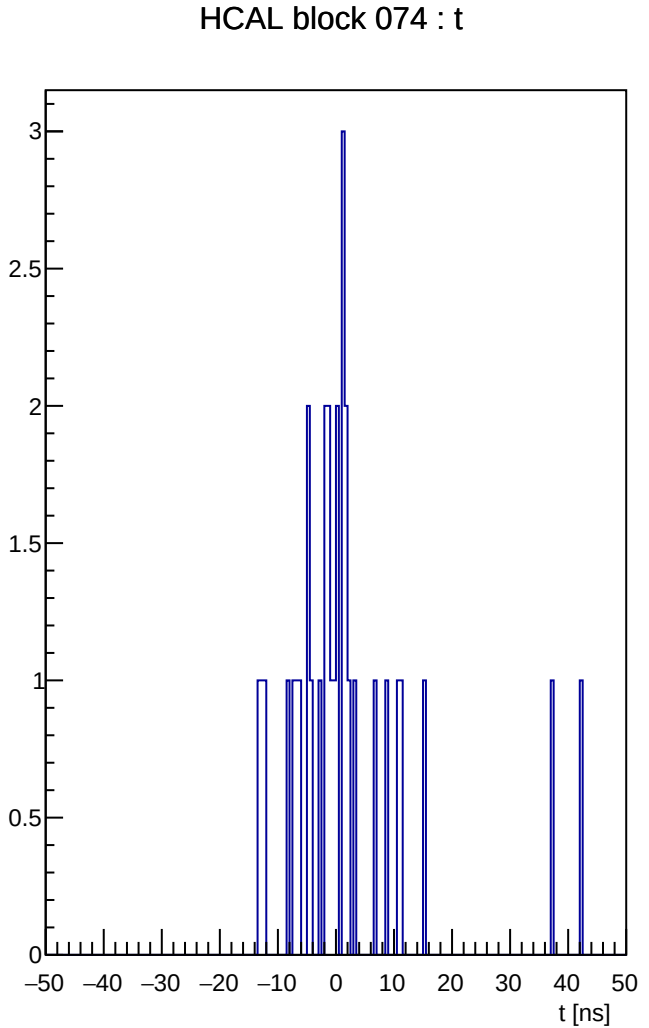

HCAL block 071 : t tw corr
χ² / ndf 24.52 / 27
Constant 9.401 ± 0.912
Mean −1.271 ± 0.652
Sigma 5.741 ± 0.920
t tw corr [ns]

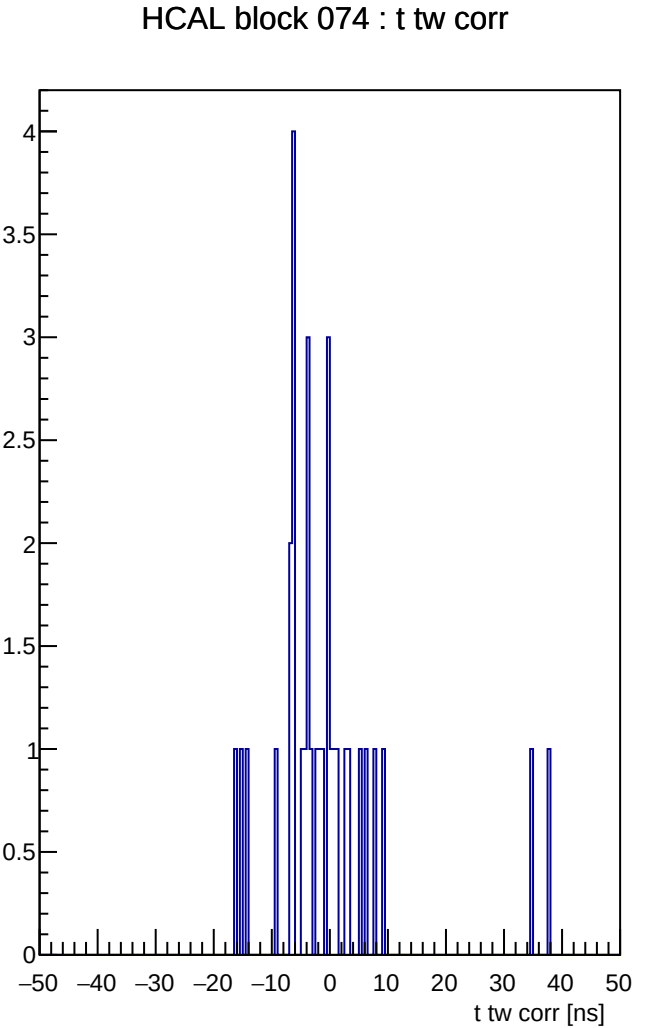

HCAL block 072 : t
χ² / ndf 22.35 / 26
Constant 6.189 ± 0.816
Mean 1.147 ± 0.438
Sigma 3.837 ± 0.492
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

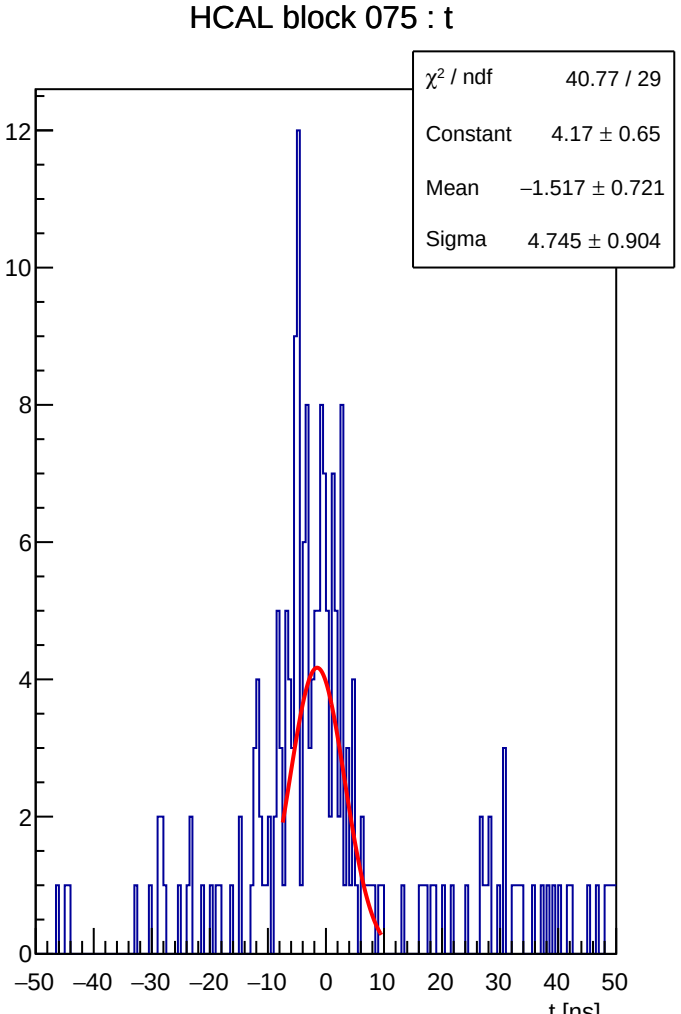

HCAL block 072 : t tw corr
χ² / ndf 15.46 / 26
Constant 6.332 ± 0.775
Mean 0.01035 ± 0.69630
Sigma 4.743 ± 0.791
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

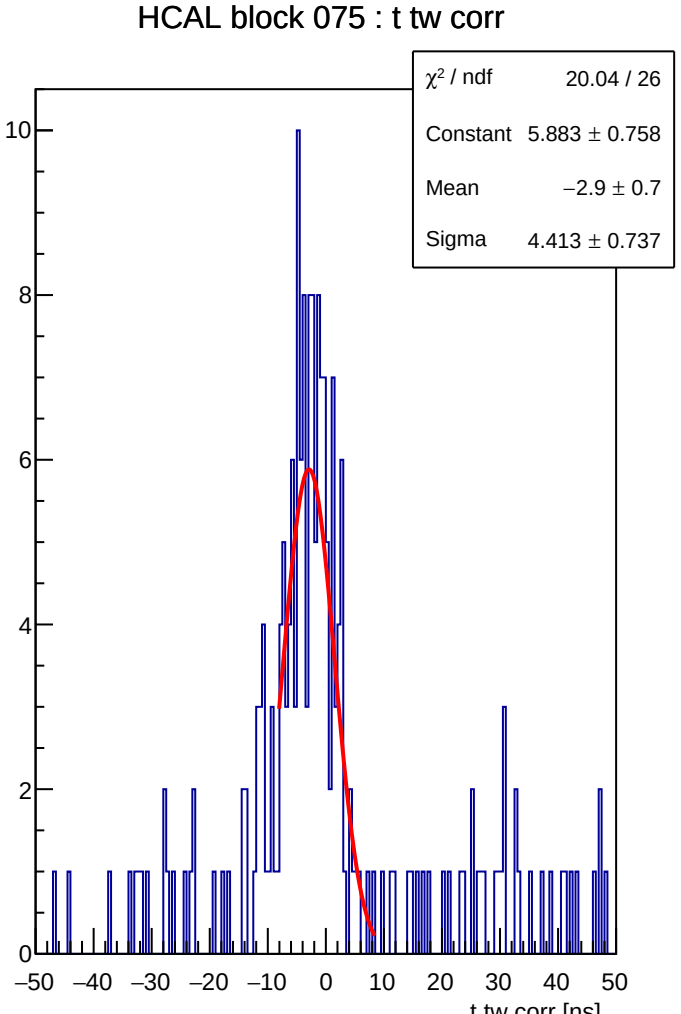

HCAL block 073 : t
χ² / ndf 42.22 / 35
Constant 7.384 ± 0.911
Mean 0.3611 ± 0.7833
Sigma 5.775 ± 1.072
t [ns]

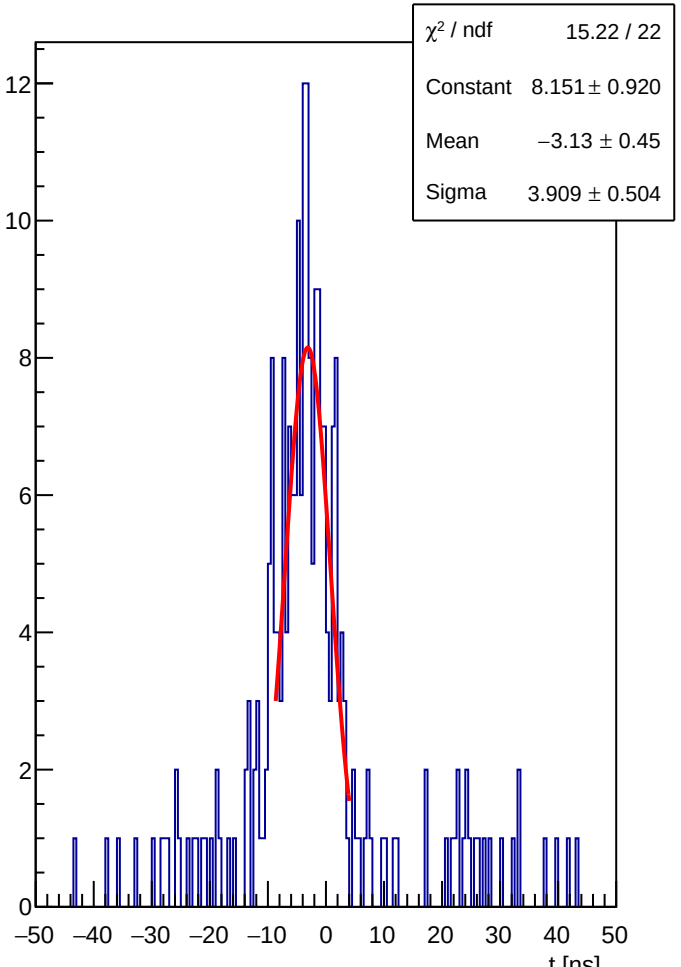

HCAL block 073 : t tw corr
χ² / ndf 31.85 / 35
Constant 8.615 ± 2.224
Mean −6.429 ± 6.972
Sigma 10.42 ± 3.72
t tw corr [ns]

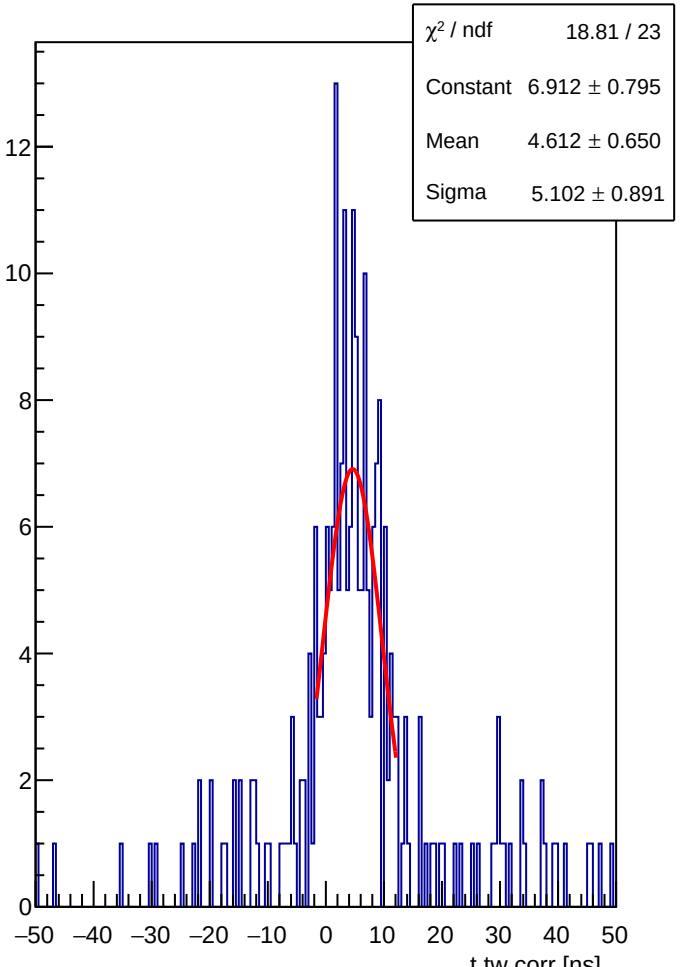

HCAL block 074 : t
3
2.5
2
1.5
1
0.5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

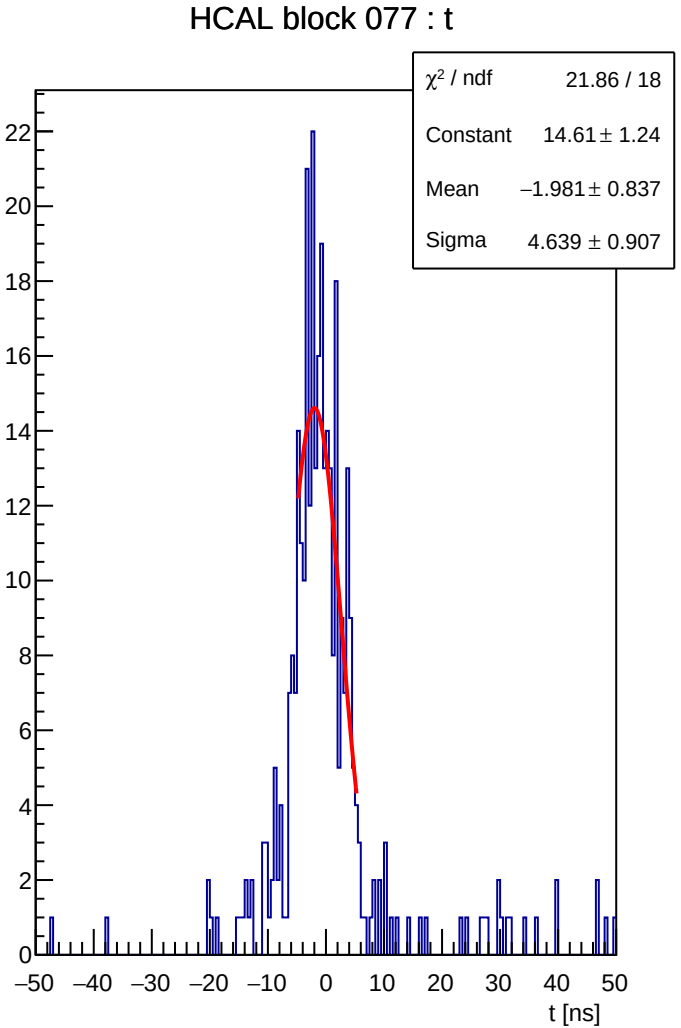

HCAL block 074 : t tw corr
4
3.5
3
2.5
2
1.5
1
0.5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

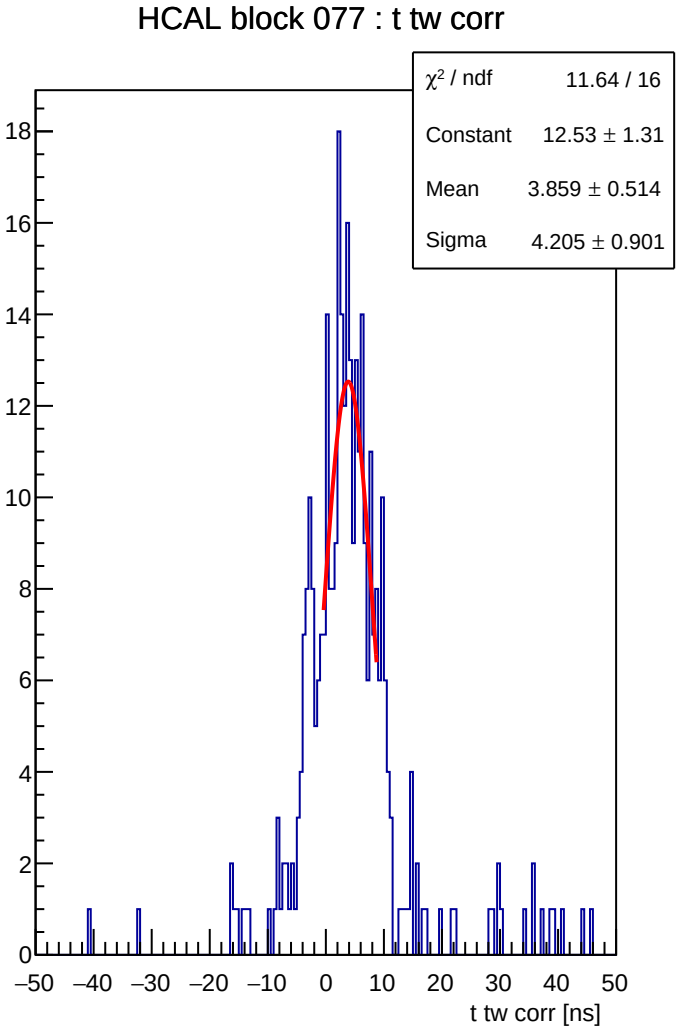

HCAL block 075 : t
χ² / ndf 40.77 / 29
Constant 4.17 ± 0.65
Mean −1.517 ± 0.721
Sigma 4.745 ± 0.904
12
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

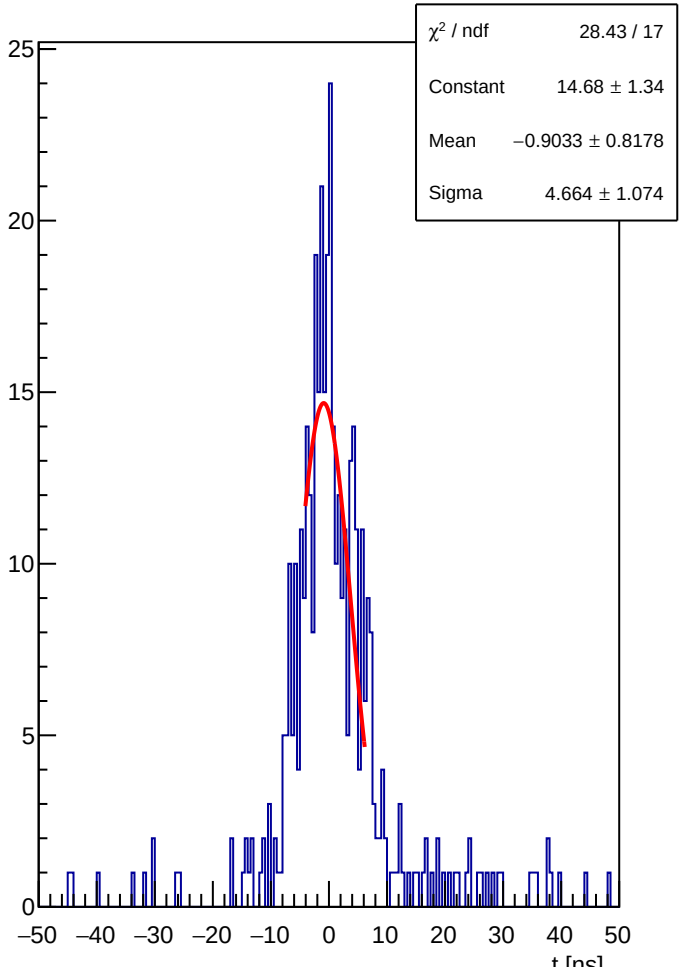

HCAL block 075 : t tw corr
χ² / ndf 20.04 / 26
Constant 5.883 ± 0.758
Mean −2.9 ± 0.7
Sigma 4.413 ± 0.737
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

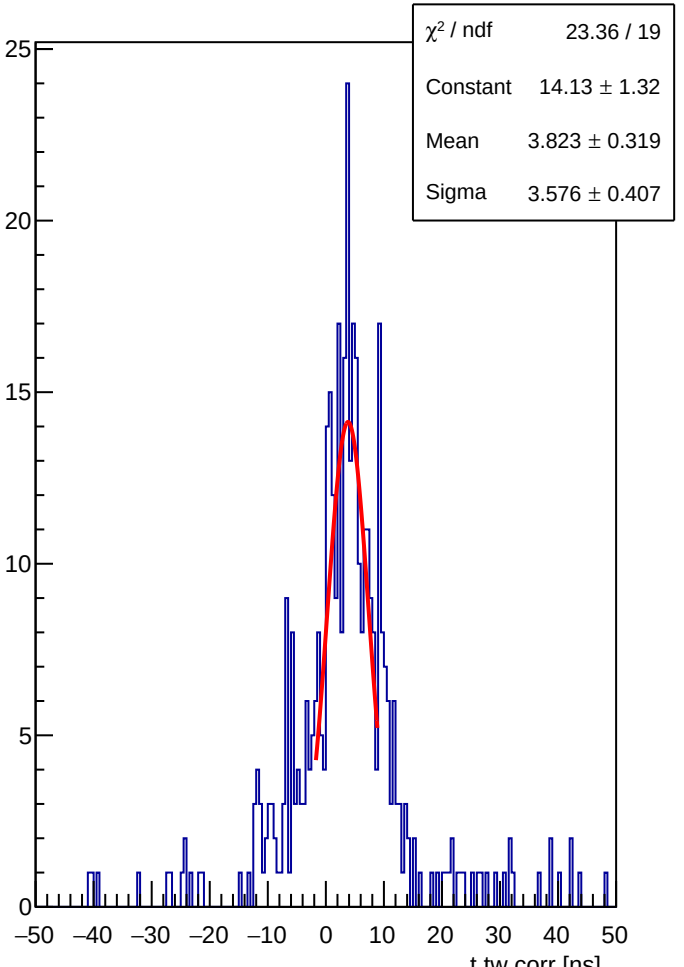

HCAL block 076 : t
χ² / ndf 15.22 / 22
Constant 8.151 ± 0.920
Mean −3.13 ± 0.45
Sigma 3.909 ± 0.504
t [ns]

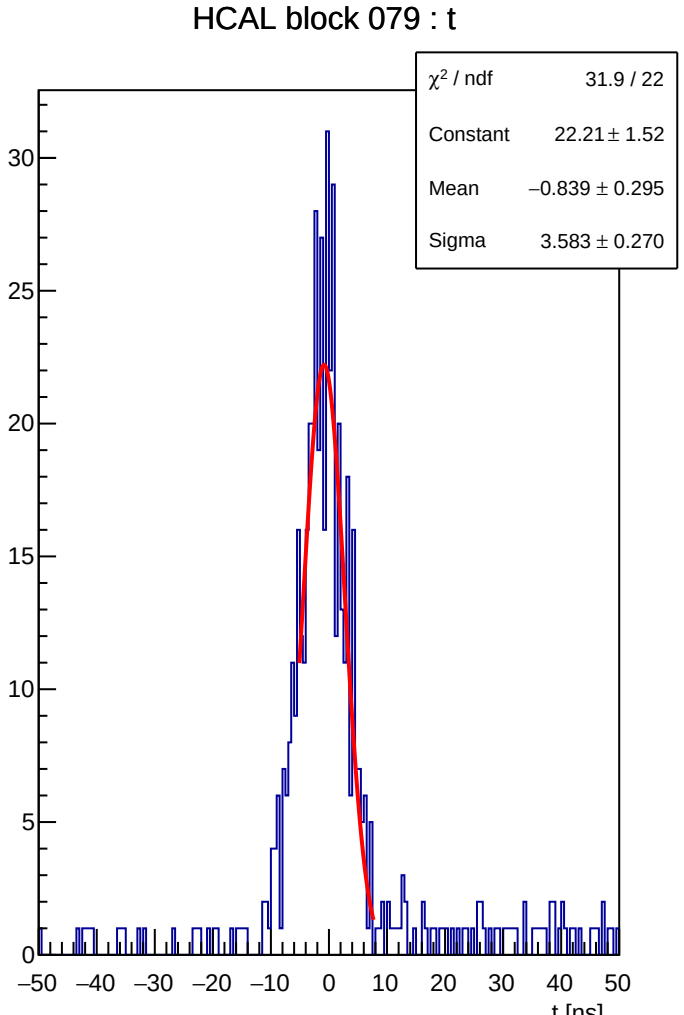

HCAL block 076 : t tw corr
χ² / ndf 18.81 / 23
Constant 6.912 ± 0.795
Mean 4.612 ± 0.650
Sigma 5.102 ± 0.891
t tw corr [ns]

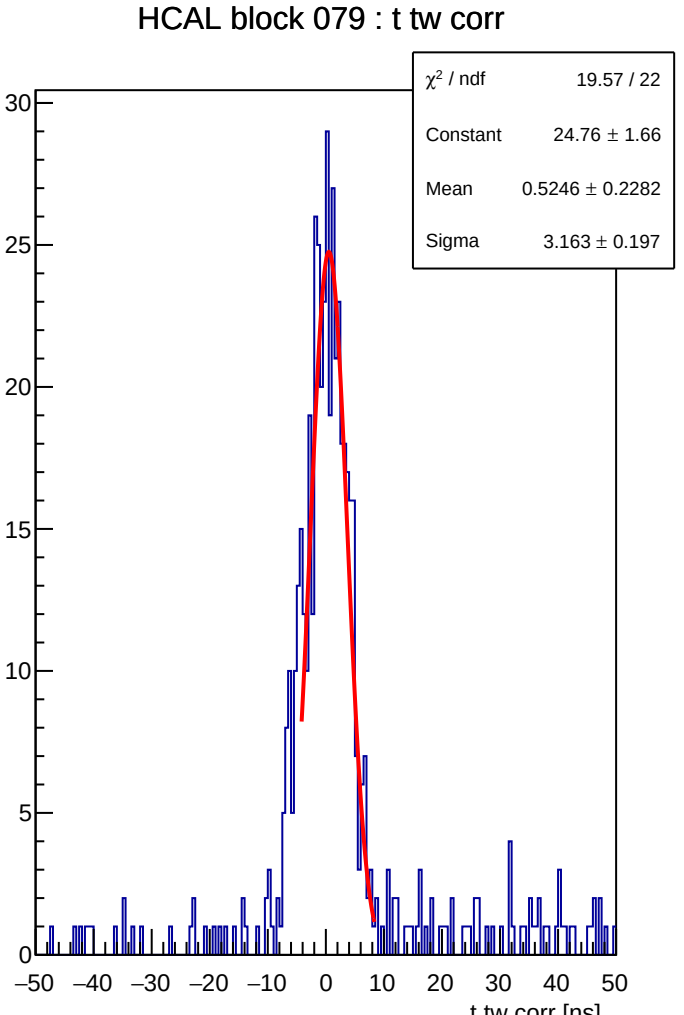

HCAL block 077 : t
χ² / ndf 21.86 / 18
Constant 14.61 ± 1.24
Mean −1.981 ± 0.837
Sigma 4.639 ± 0.907
t [ns]

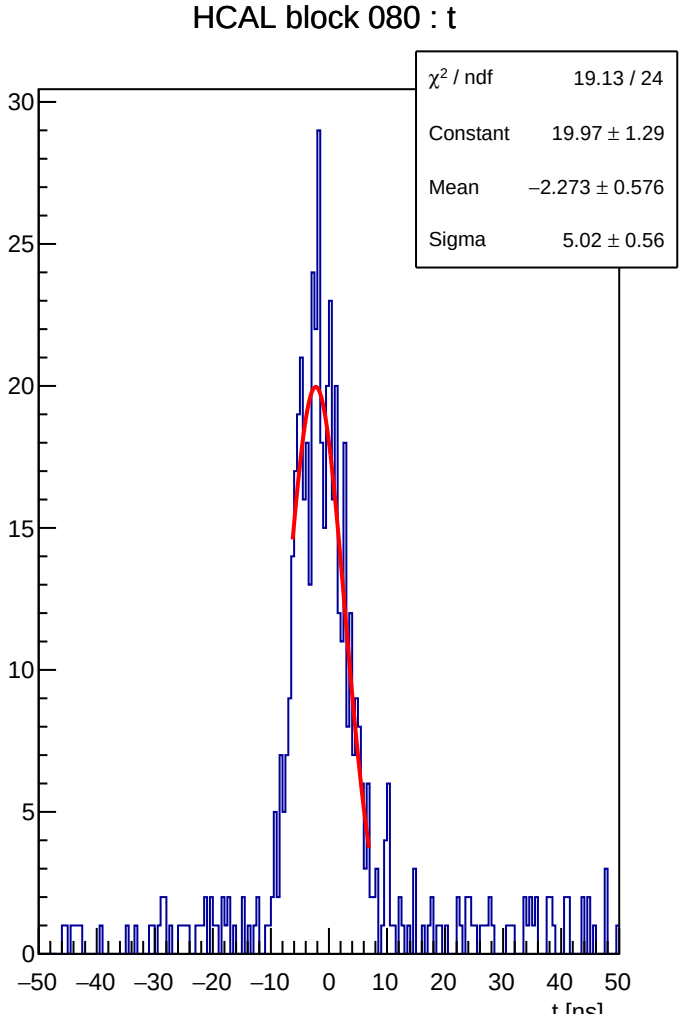

HCAL block 077 : t tw corr
χ² / ndf 11.64 / 16
Constant 12.53 ± 1.31
Mean 3.859 ± 0.514
Sigma 4.205 ± 0.901
t tw corr [ns]

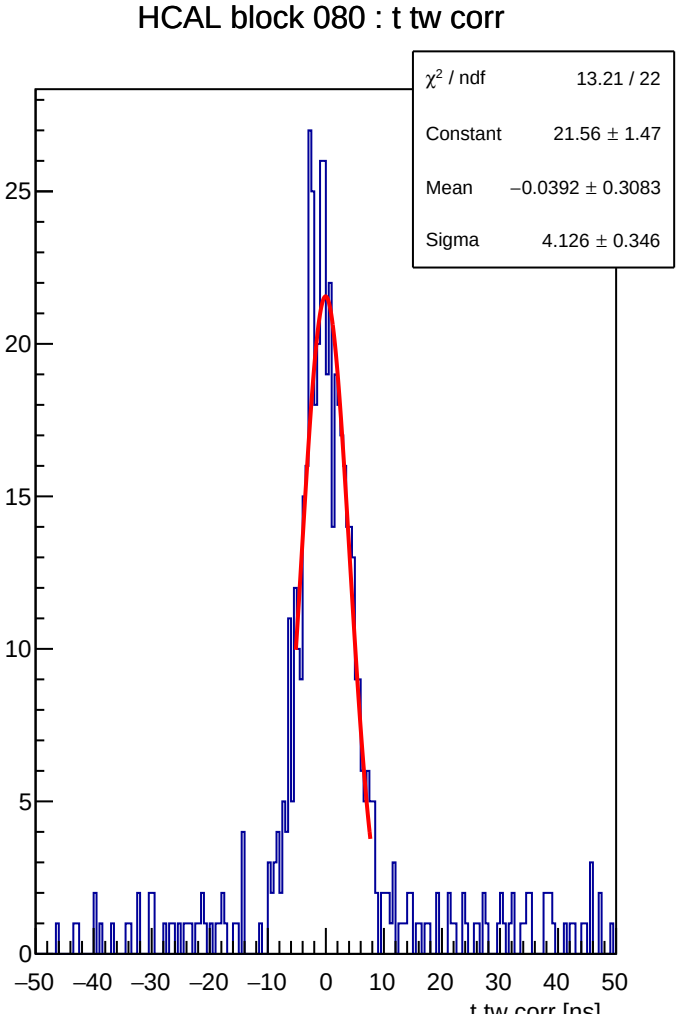

HCAL block 078 : t
χ² / ndf 28.43 / 17
Constant 14.68 ± 1.34
Mean −0.9033 ± 0.8178
Sigma 4.664 ± 1.074
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

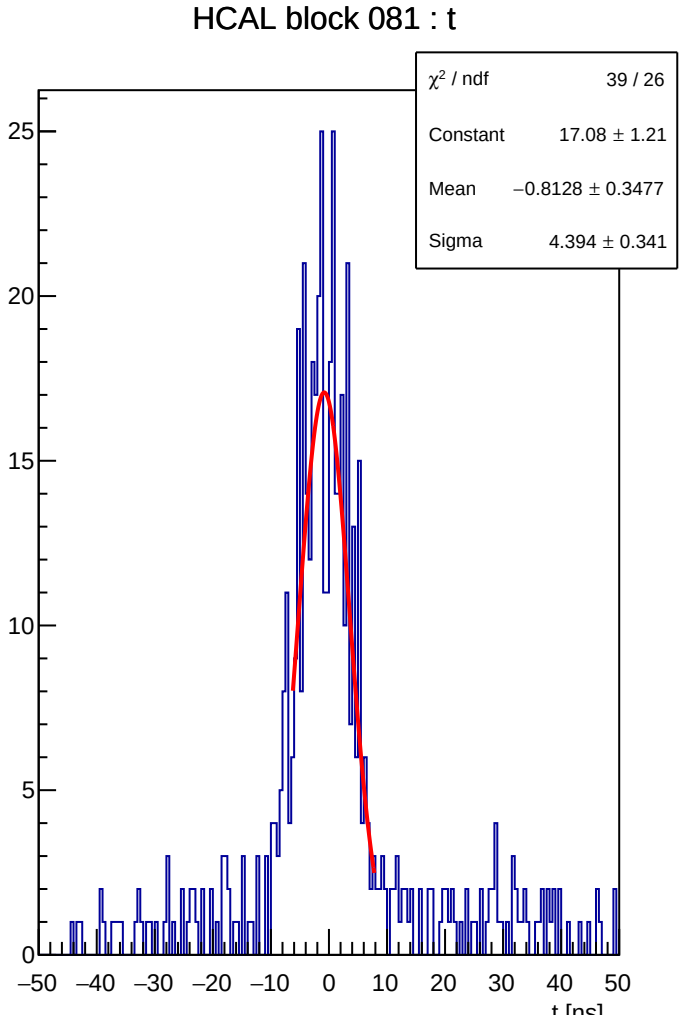

HCAL block 078 : t tw corr
χ² / ndf 23.36 / 19
Constant 14.13 ± 1.32
Mean 3.823 ± 0.319
Sigma 3.576 ± 0.407
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

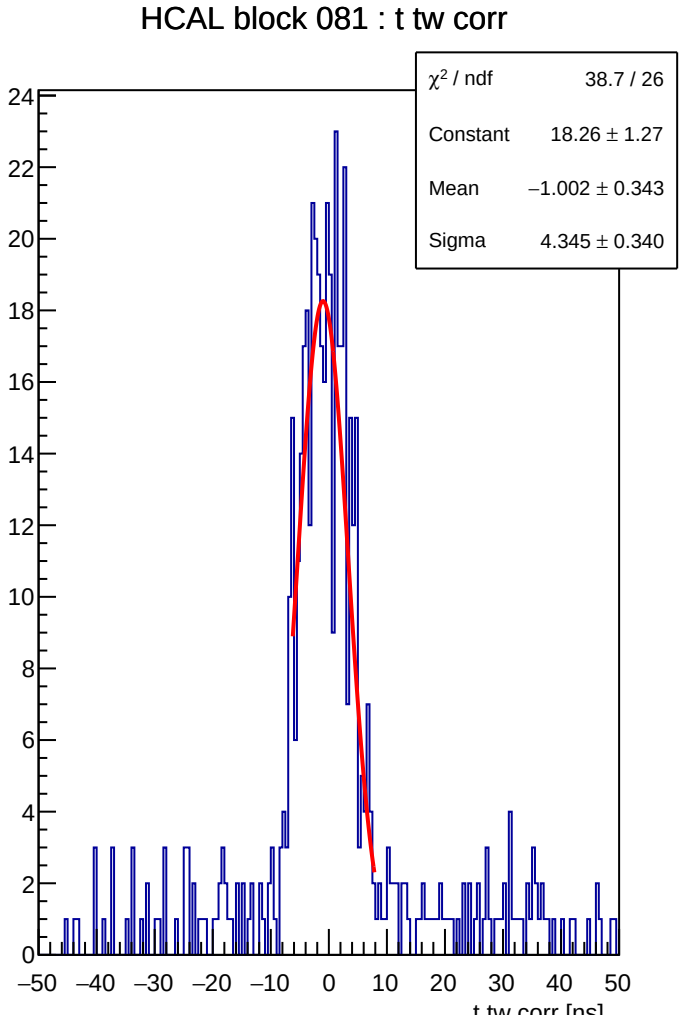

HCAL block 079 : t
χ² / ndf 31.9 / 22
Constant 22.21 ± 1.52
Mean −0.839 ± 0.295
Sigma 3.583 ± 0.270
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

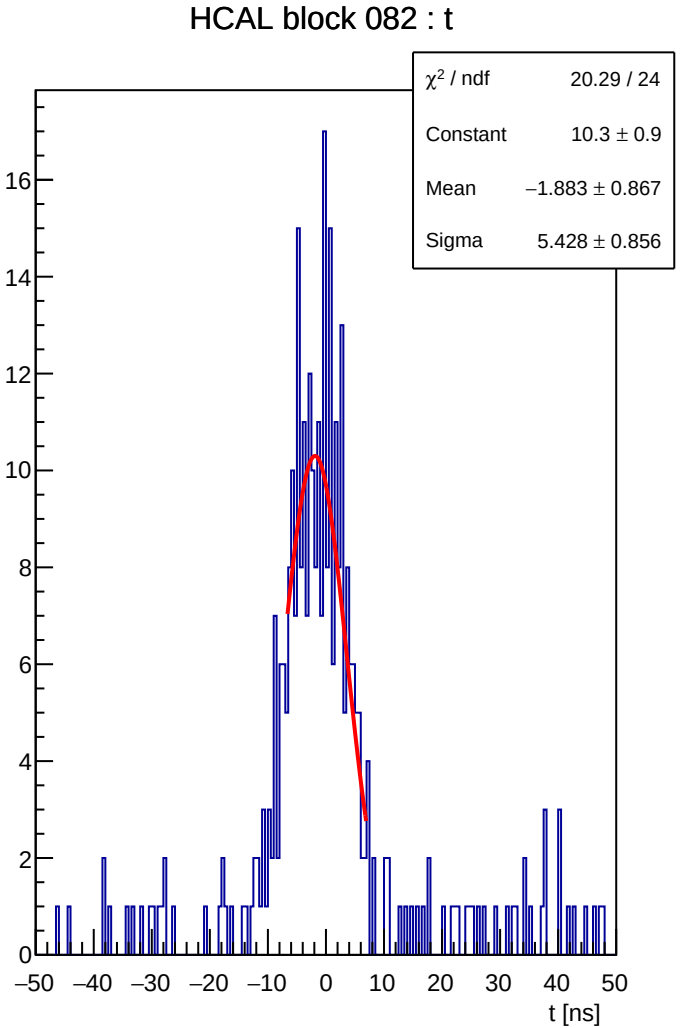

HCAL block 079 : t tw corr
χ² / ndf 19.57 / 22
Constant 24.76 ± 1.66
Mean 0.5246 ± 0.2282
Sigma 3.163 ± 0.197
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

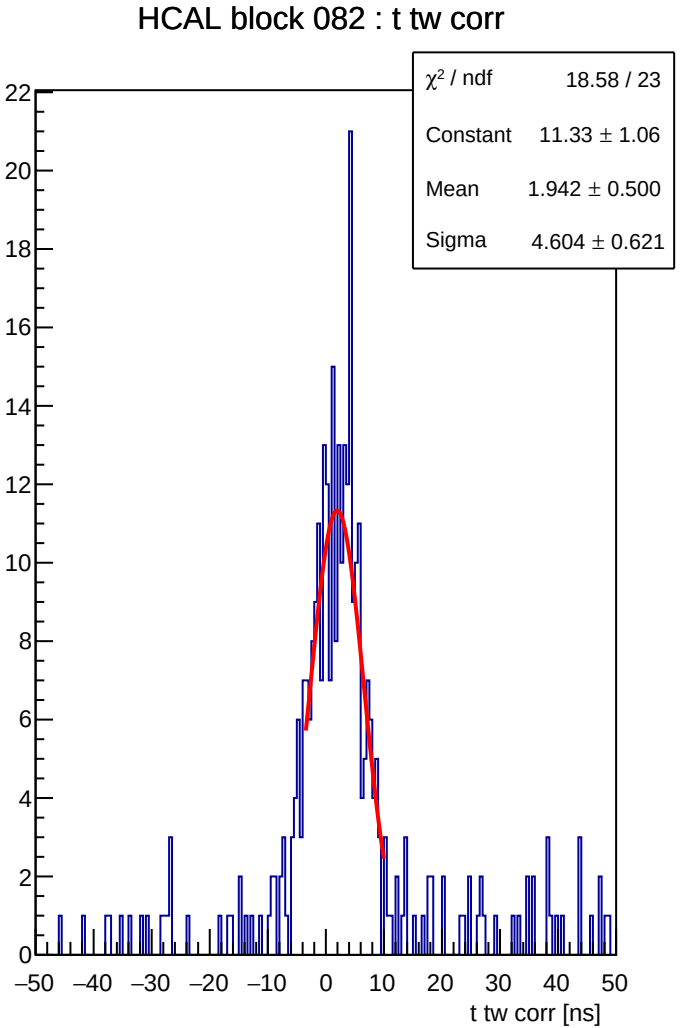

HCAL block 080 : t
χ² / ndf 19.13 / 24
Constant 19.97 ± 1.29
Mean −2.273 ± 0.576
Sigma 5.02 ± 0.56
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

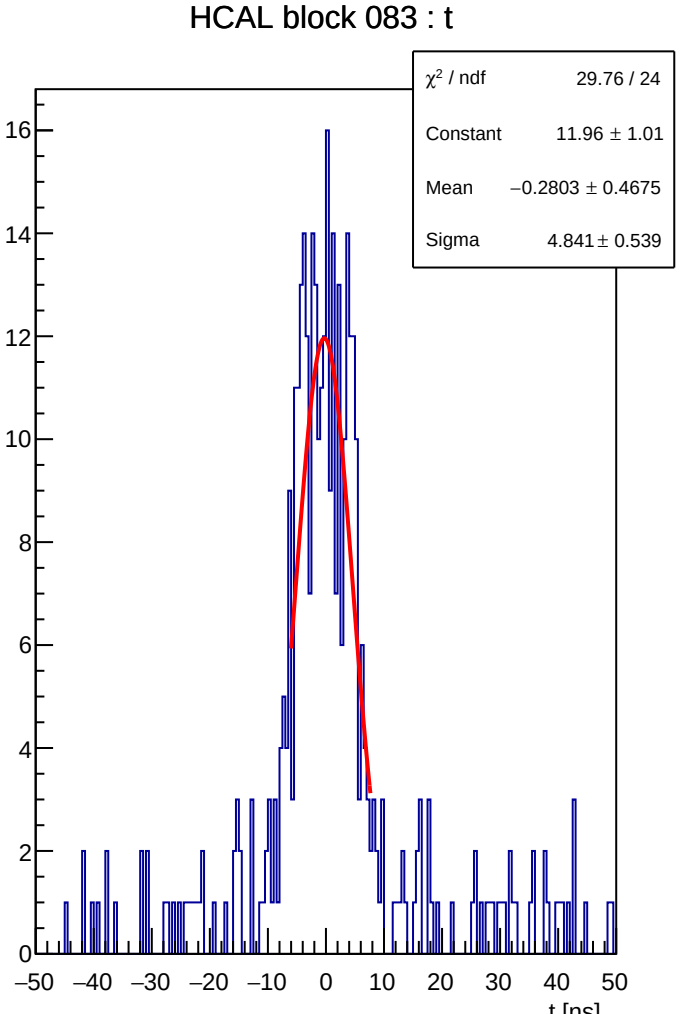

HCAL block 080 : t tw corr
χ² / ndf 13.21 / 22
Constant 21.56 ± 1.47
Mean −0.0392 ± 0.3083
Sigma 4.126 ± 0.346
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

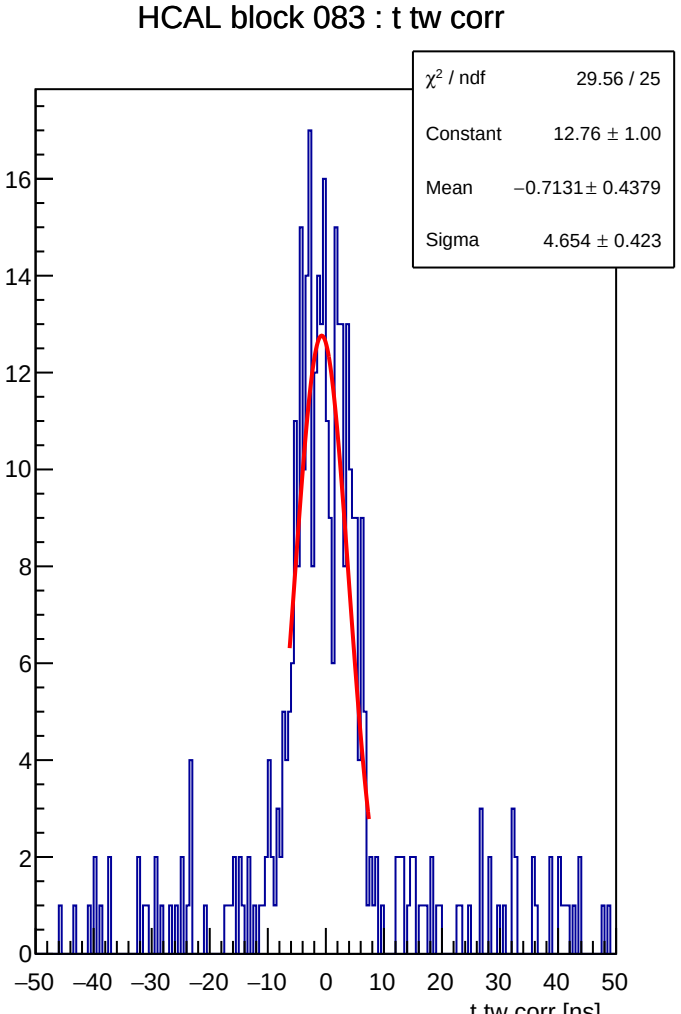

HCAL block 081 : t
χ² / ndf 39 / 26
Constant 17.08 ± 1.21
Mean −0.8128 ± 0.3477
Sigma 4.394 ± 0.341
t [ns]

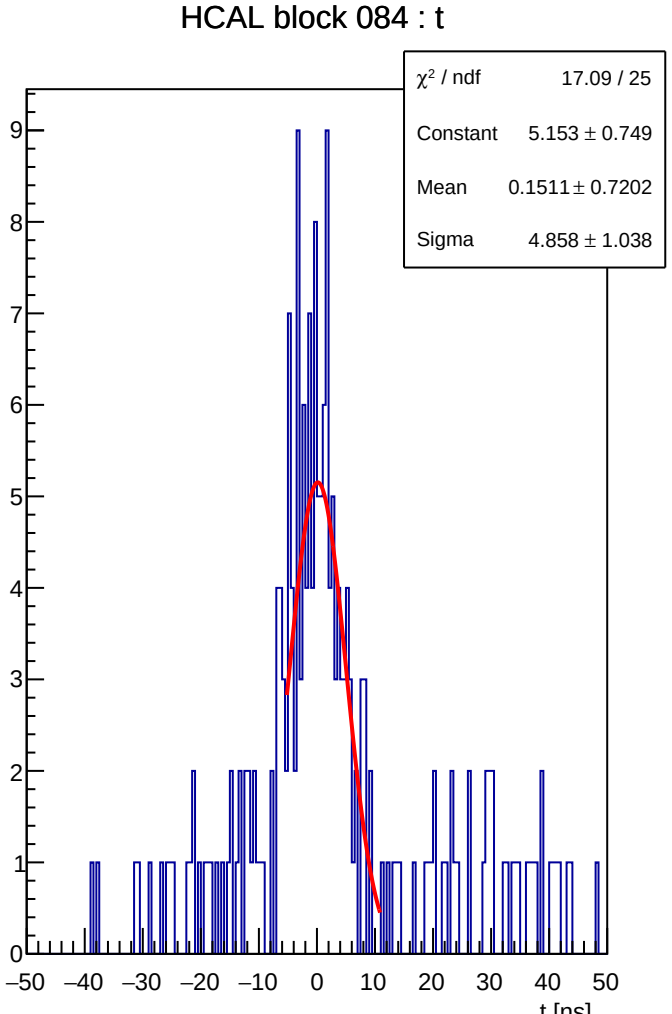

HCAL block 081 : t tw corr
χ² / ndf 38.7 / 26
Constant 18.26 ± 1.27
Mean −1.002 ± 0.343
Sigma 4.345 ± 0.340
t tw corr [ns]

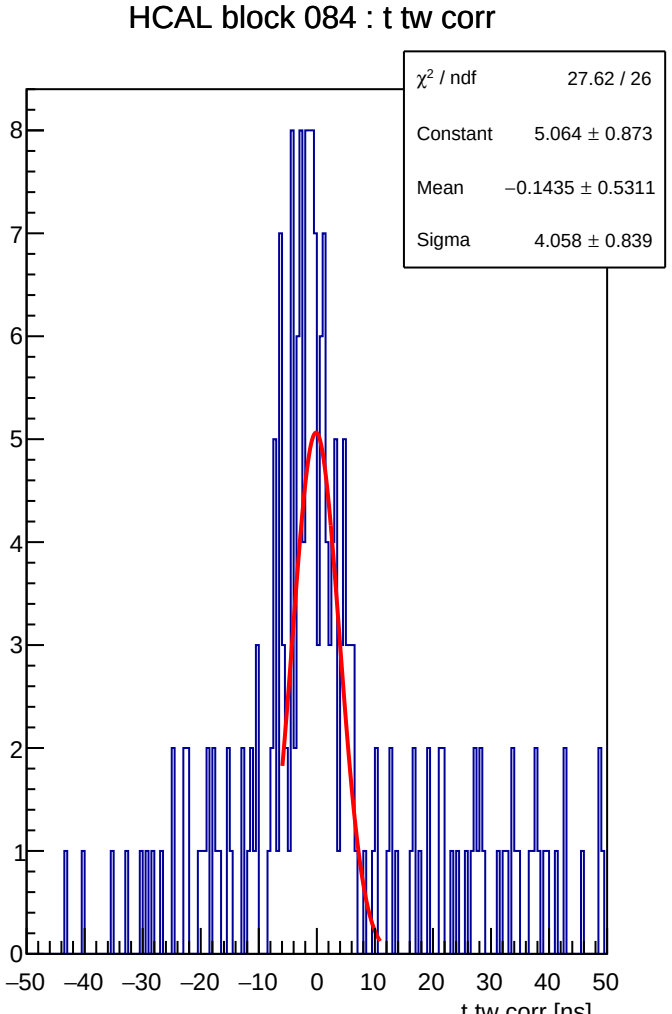

HCAL block 082 : t
χ² / ndf 20.29 / 24
Constant 10.3 ± 0.9
Mean −1.883 ± 0.867
Sigma 5.428 ± 0.856
t [ns]

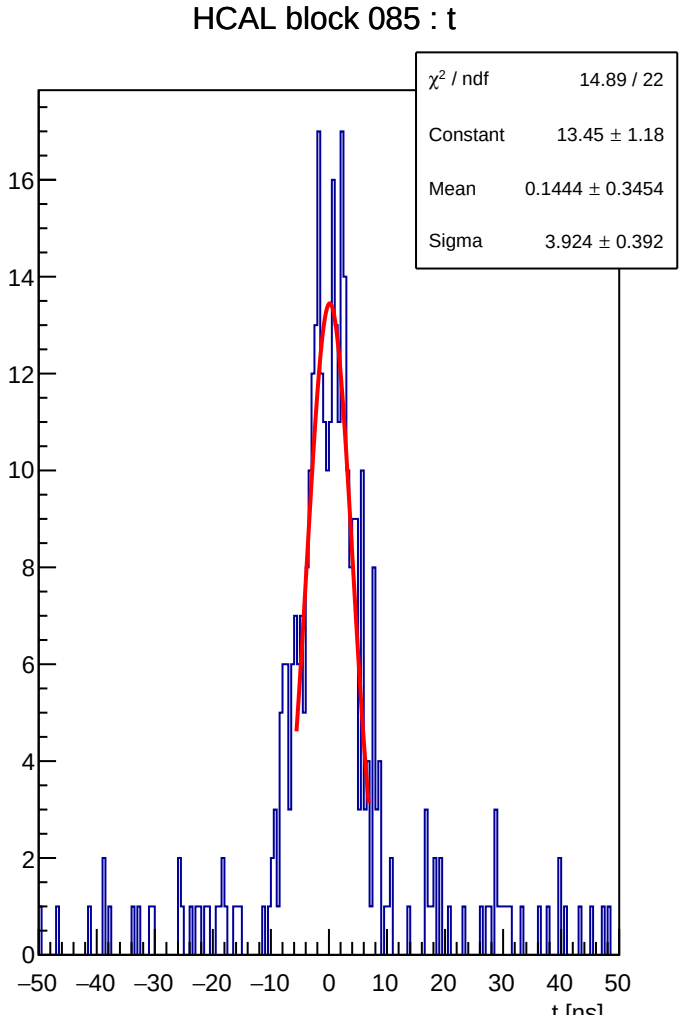

HCAL block 082 : t tw corr
χ² / ndf 18.58 / 23
Constant 11.33 ± 1.06
Mean 1.942 ± 0.500
Sigma 4.604 ± 0.621
t tw corr [ns]

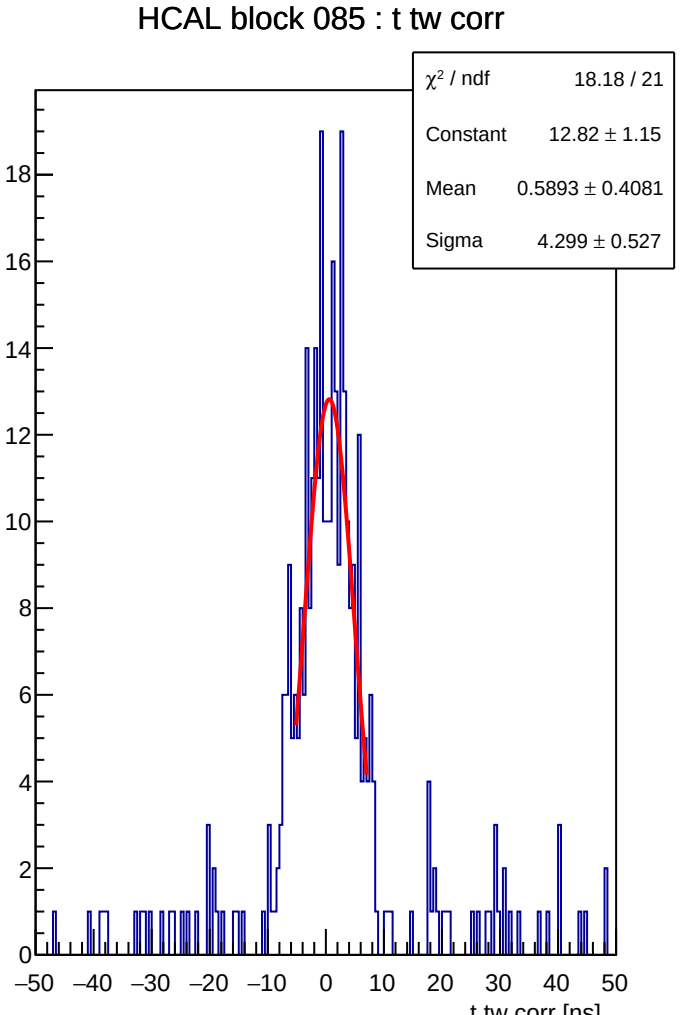

HCAL block 083 : t
χ² / ndf 29.76 / 24
Constant 11.96 ± 1.01
Mean −0.2803 ± 0.4675
Sigma 4.841 ± 0.539
t [ns]

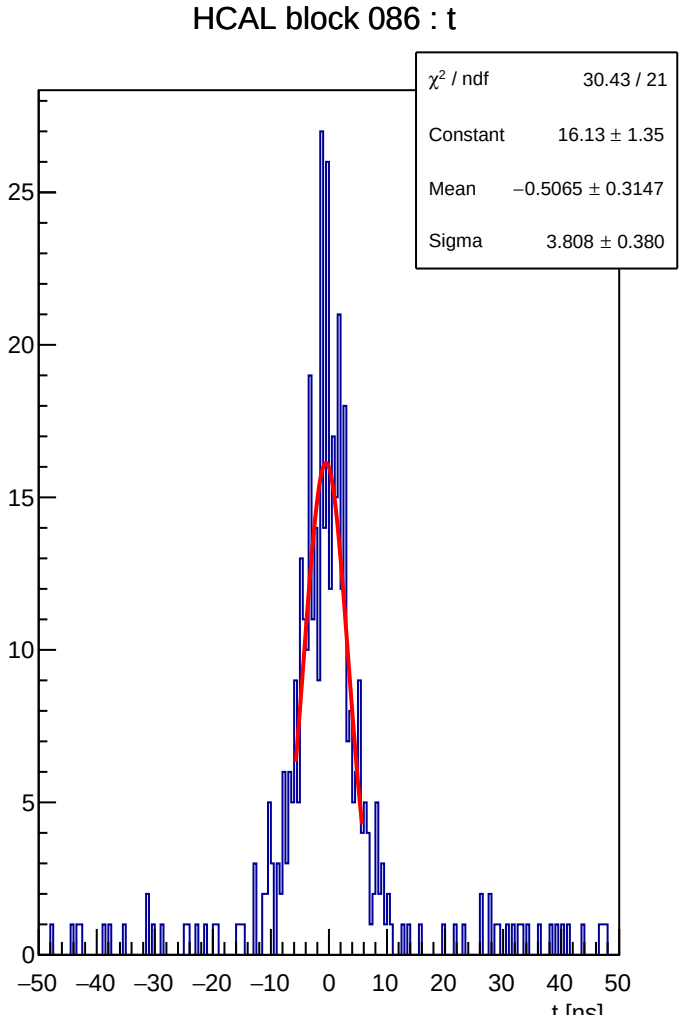

HCAL block 083 : t tw corr
χ² / ndf 29.56 / 25
Constant 12.76 ± 1.00
Mean −0.7131 ± 0.4379
Sigma 4.654 ± 0.423
t tw corr [ns]

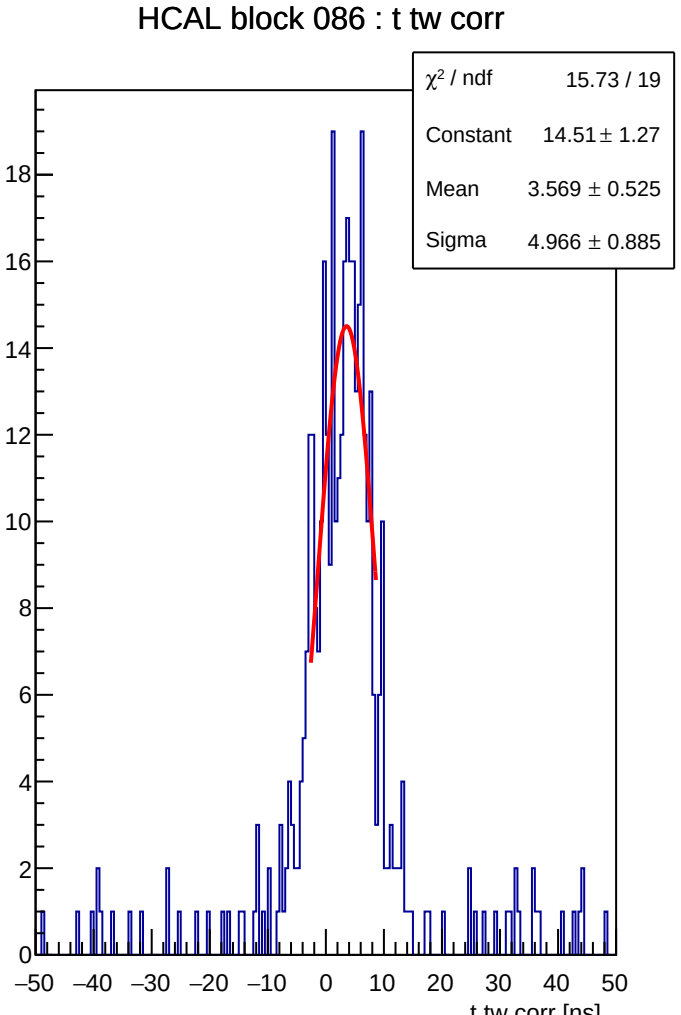

HCAL block 084 : t
χ² / ndf 17.09 / 25
Constant 5.153 ± 0.749
Mean 0.1511 ± 0.7202
Sigma 4.858 ± 1.038
t [ns]

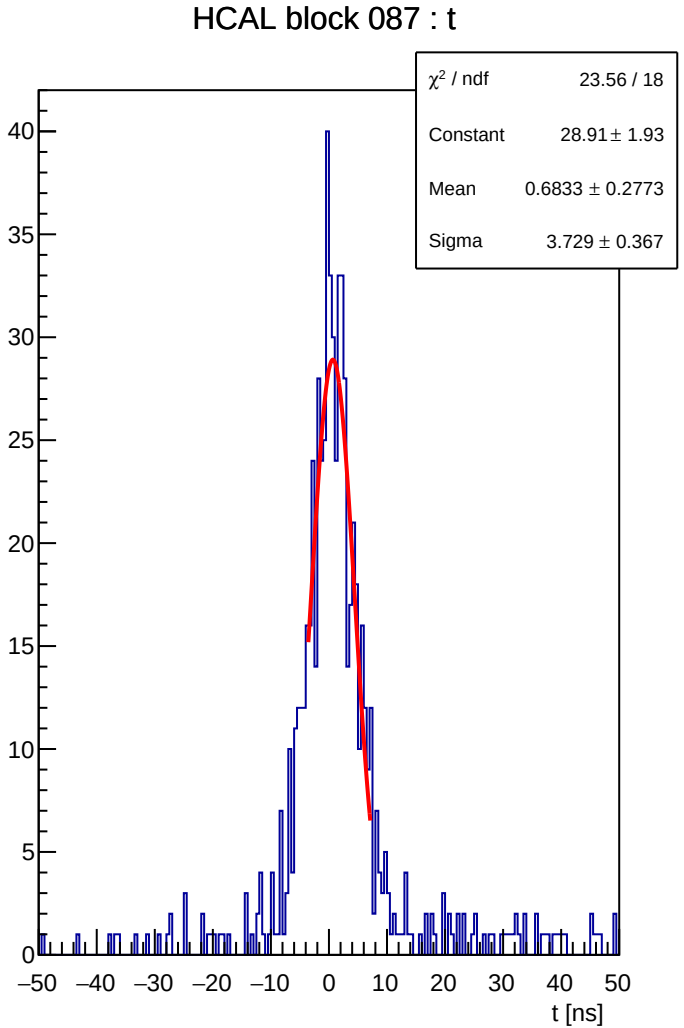

HCAL block 084 : t tw corr
χ² / ndf 27.62 / 26
Constant 5.064 ± 0.873
Mean −0.1435 ± 0.5311
Sigma 4.058 ± 0.839
t tw corr [ns]

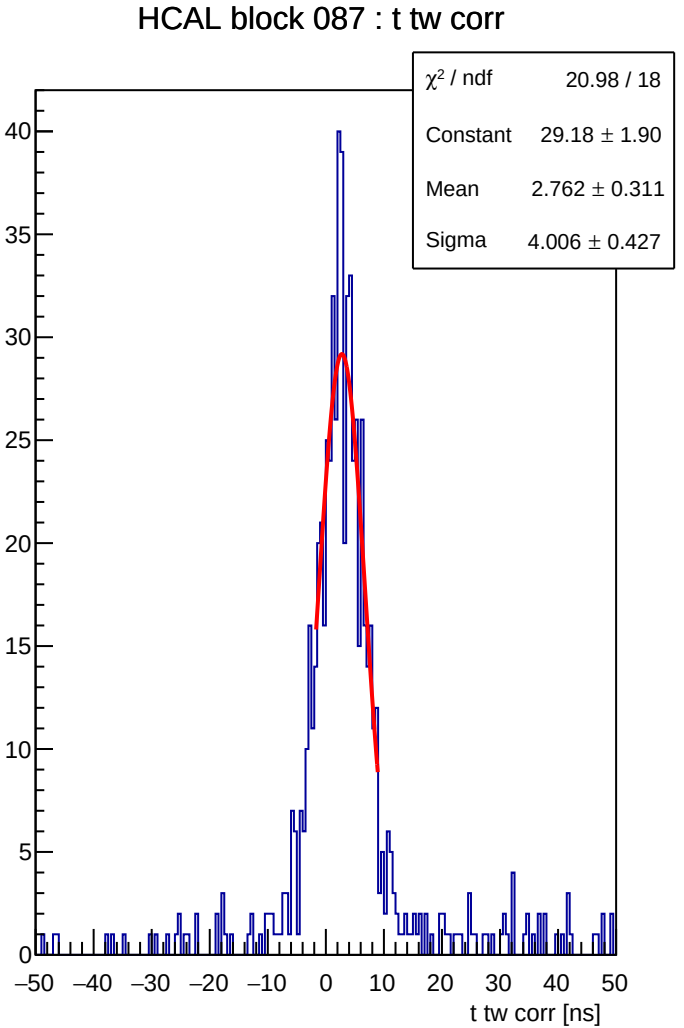

HCAL block 085 : t
χ² / ndf 14.89 / 22
Constant 13.45 ± 1.18
Mean 0.1444 ± 0.3454
Sigma 3.924 ± 0.392
t [ns]

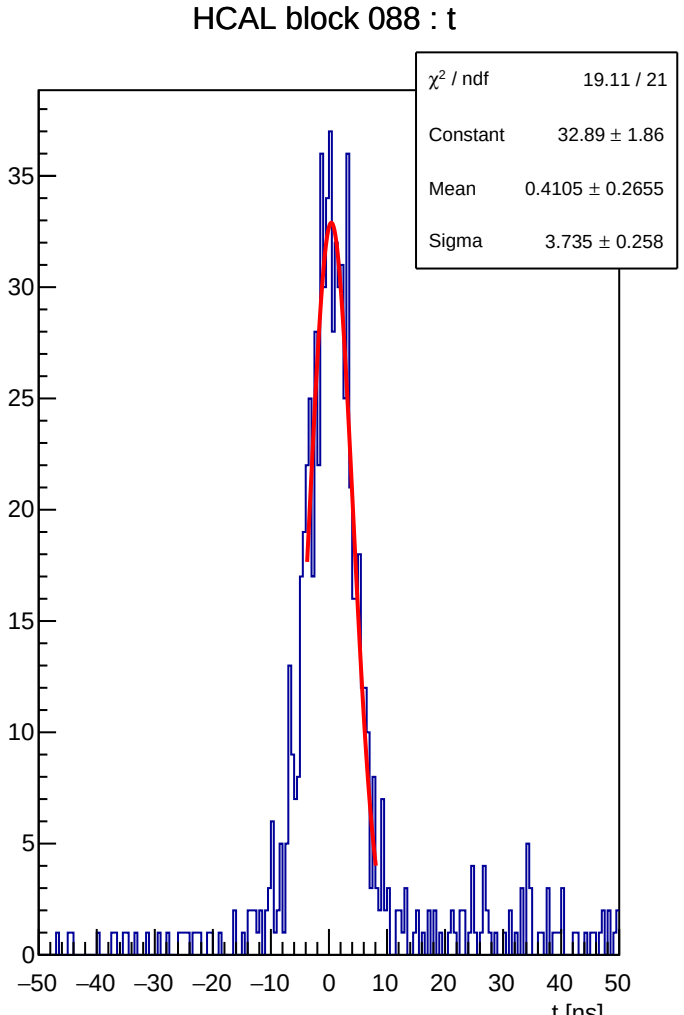

HCAL block 085 : t tw corr
χ² / ndf 18.18 / 21
Constant 12.82 ± 1.15
Mean 0.5893 ± 0.4081
Sigma 4.299 ± 0.527
t tw corr [ns]

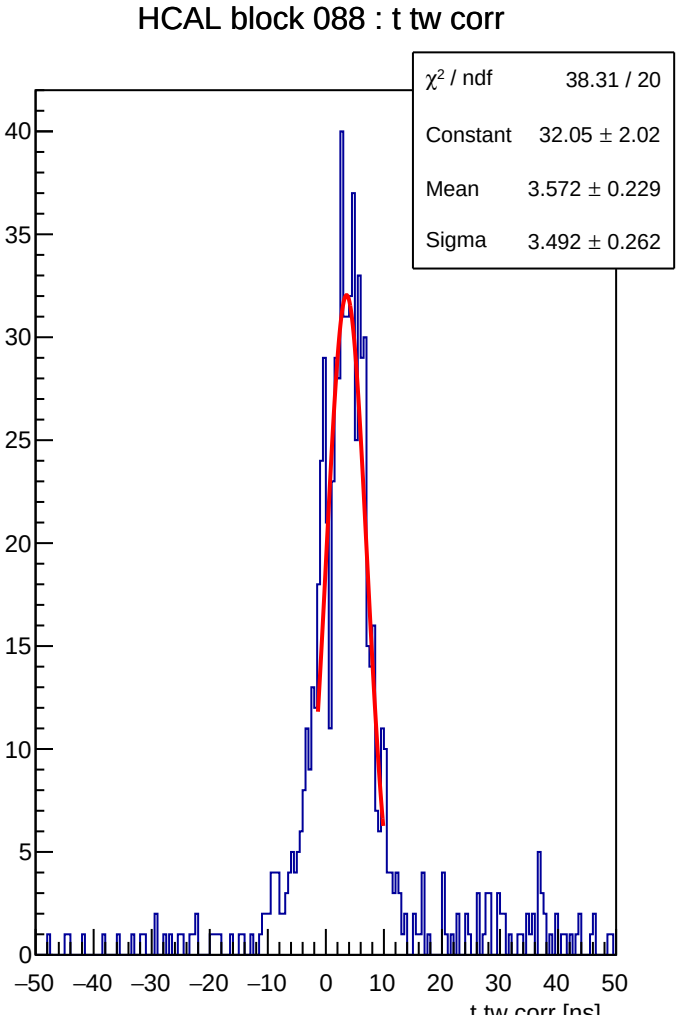

HCAL block 086 : t
χ² / ndf 30.43 / 21
Constant 16.13 ± 1.35
Mean −0.5065 ± 0.3147
Sigma 3.808 ± 0.380
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

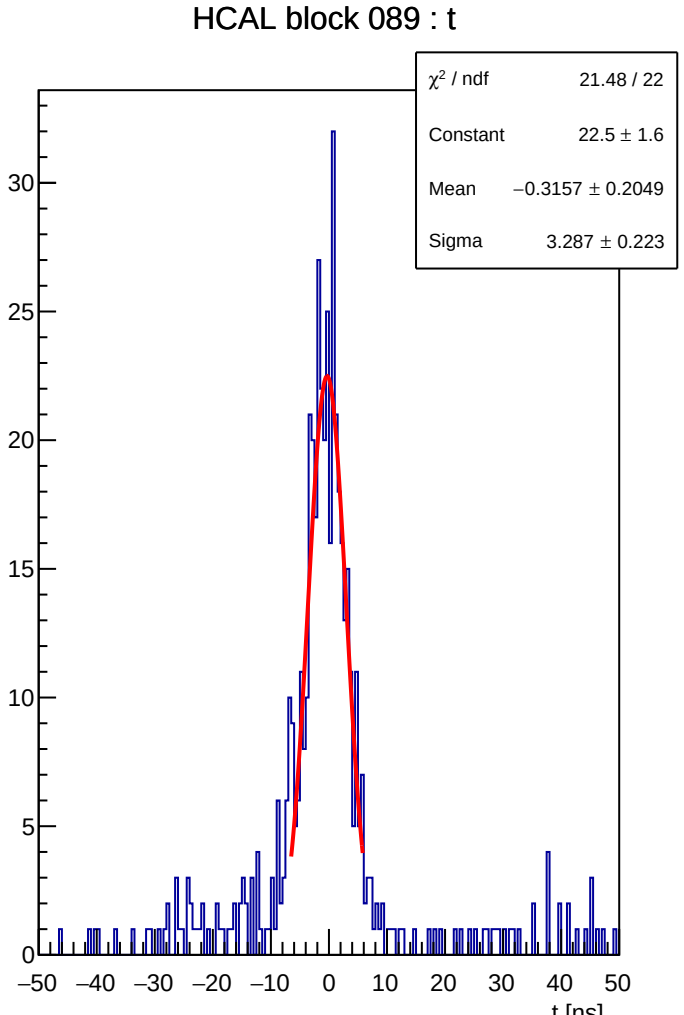

HCAL block 086 : t tw corr
χ² / ndf 15.73 / 19
Constant 14.51 ± 1.27
Mean 3.569 ± 0.525
Sigma 4.966 ± 0.885
18
16
14
12
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

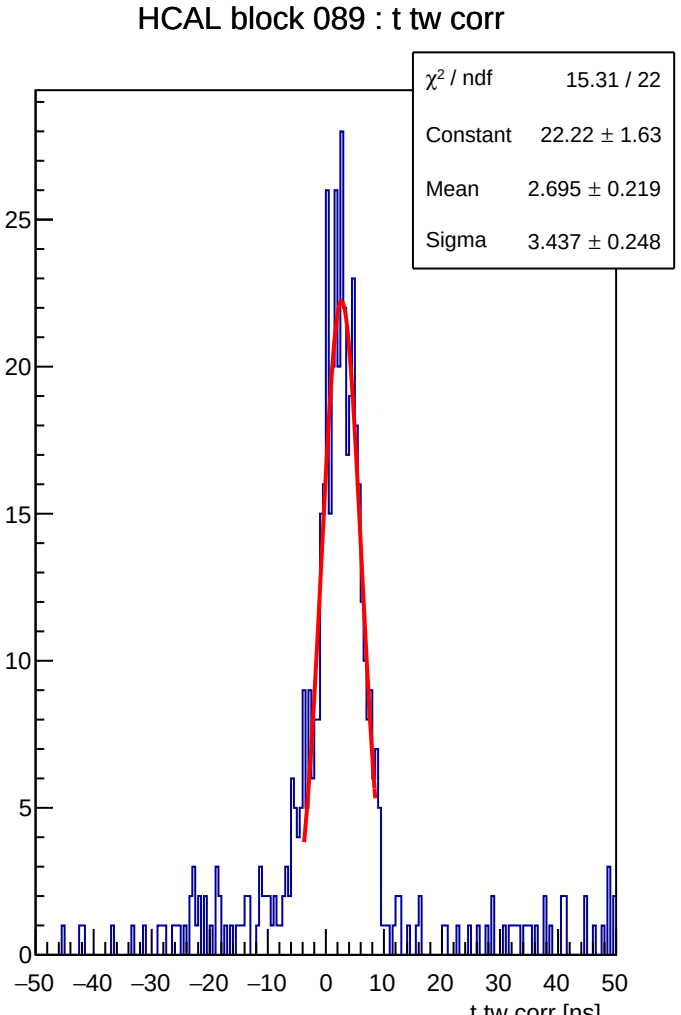

HCAL block 087 : t
χ² / ndf 23.56 / 18
Constant 28.91 ± 1.93
Mean 0.6833 ± 0.2773
Sigma 3.729 ± 0.367
40
35
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

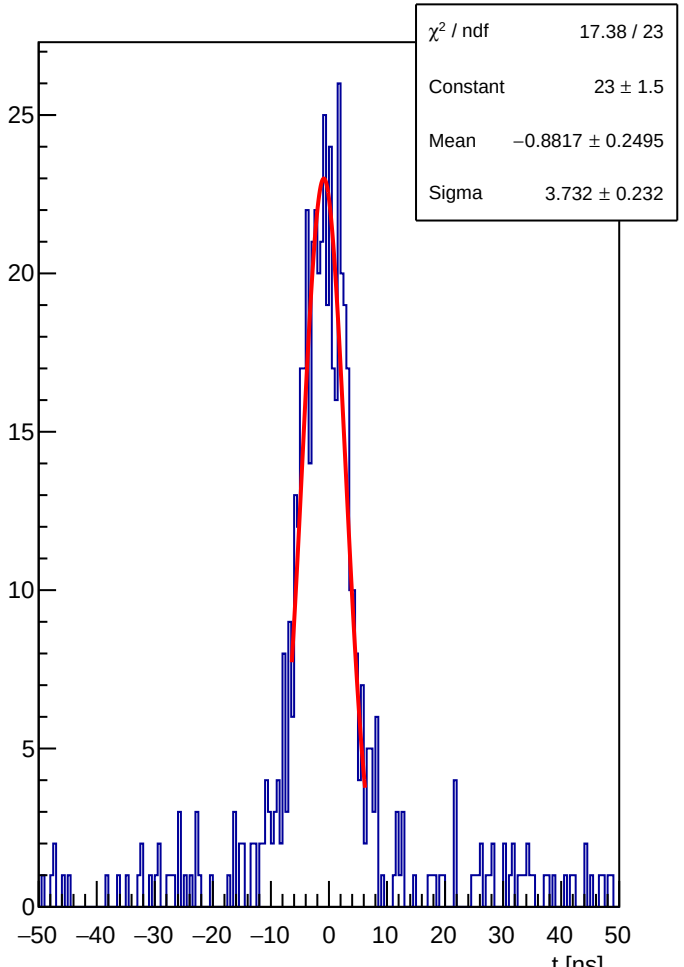

HCAL block 087 : t tw corr
χ² / ndf 20.98 / 18
Constant 29.18 ± 1.90
Mean 2.762 ± 0.311
Sigma 4.006 ± 0.427
40
35
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

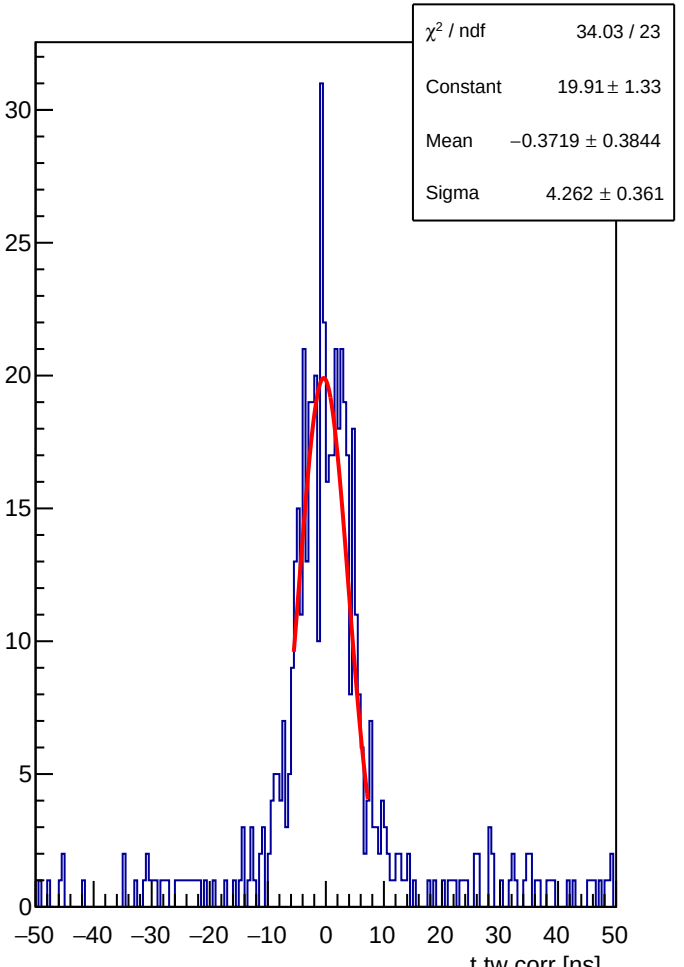

HCAL block 088 : t
χ² / ndf 19.11 / 21
Constant 32.89 ± 1.86
Mean 0.4105 ± 0.2655
Sigma 3.735 ± 0.258
t [ns]

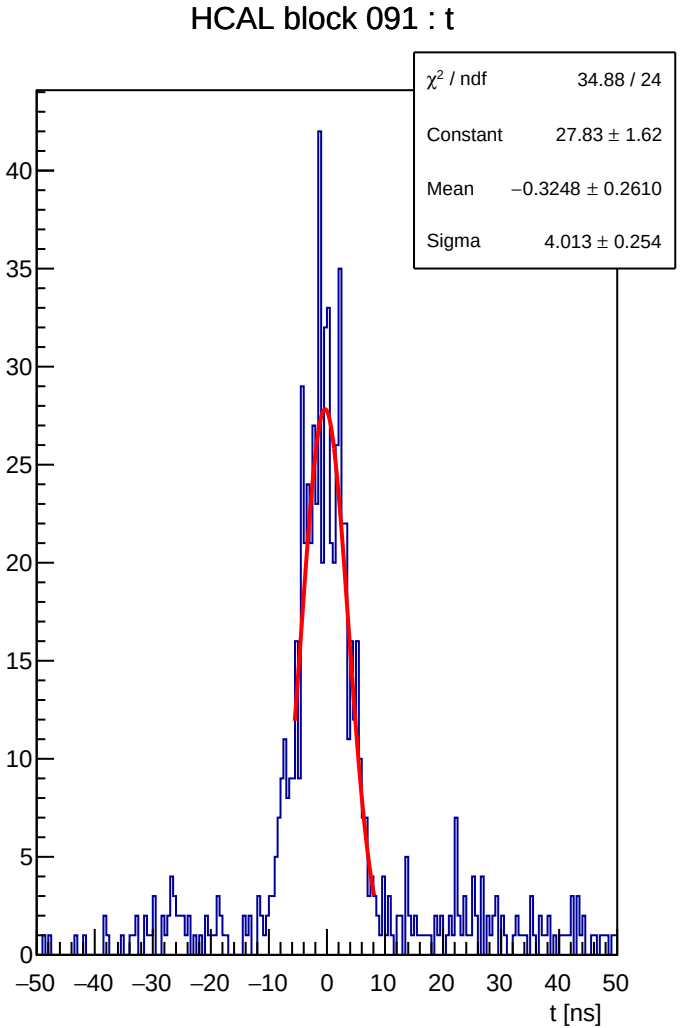

HCAL block 088 : t tw corr
χ² / ndf 38.31 / 20
Constant 32.05 ± 2.02
Mean 3.572 ± 0.229
Sigma 3.492 ± 0.262
t tw corr [ns]

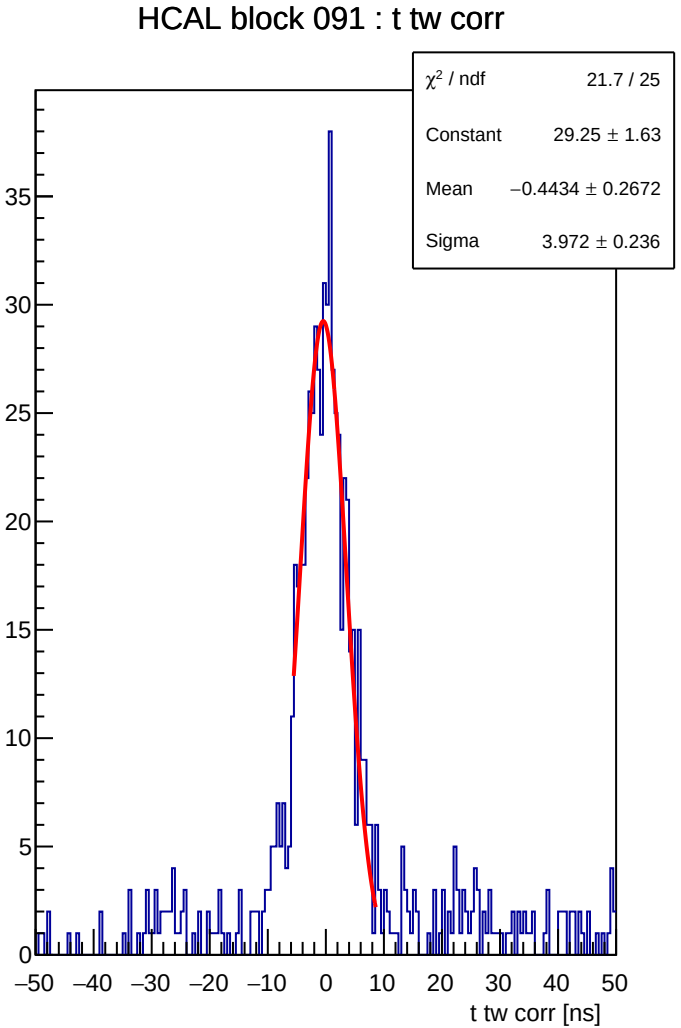

HCAL block 089 : t
χ² / ndf 21.48 / 22
Constant 22.5 ± 1.6
Mean −0.3157 ± 0.2049
Sigma 3.287 ± 0.223
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

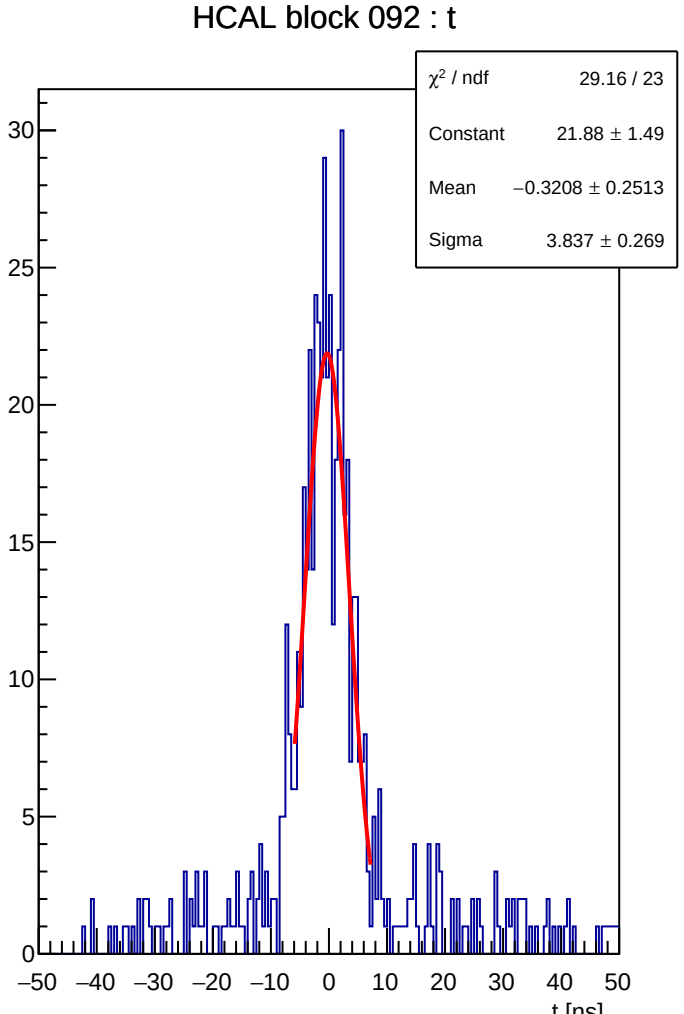

HCAL block 089 : t tw corr
χ² / ndf 15.31 / 22
Constant 22.22 ± 1.63
Mean 2.695 ± 0.219
Sigma 3.437 ± 0.248
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

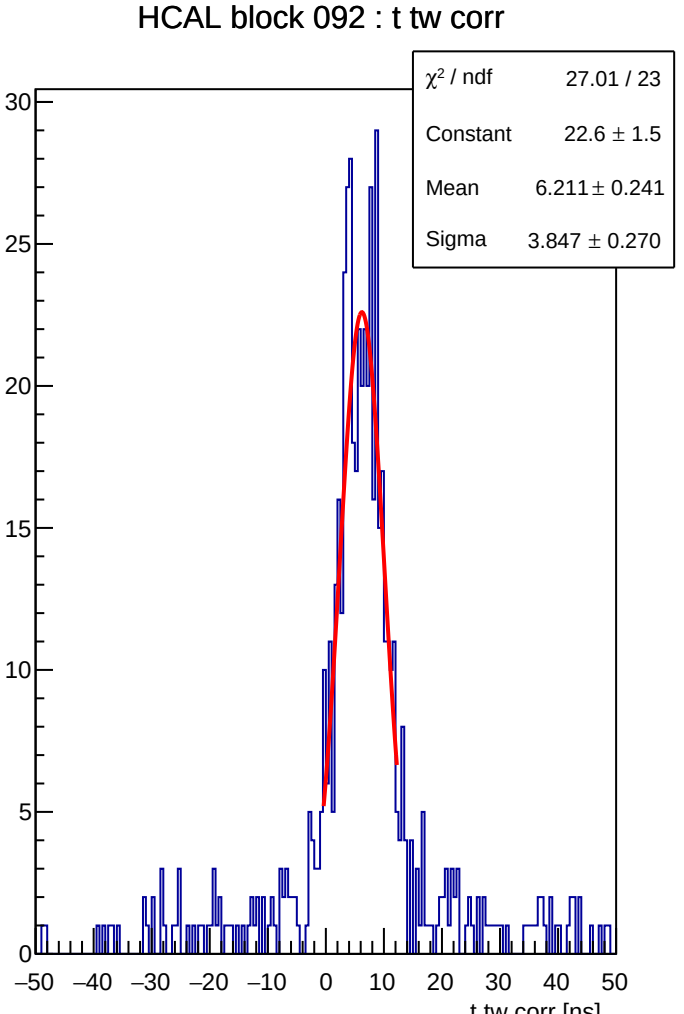

HCAL block 090 : t
χ² / ndf 17.38 / 23
Constant 23 ± 1.5
Mean −0.8817 ± 0.2495
Sigma 3.732 ± 0.232
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

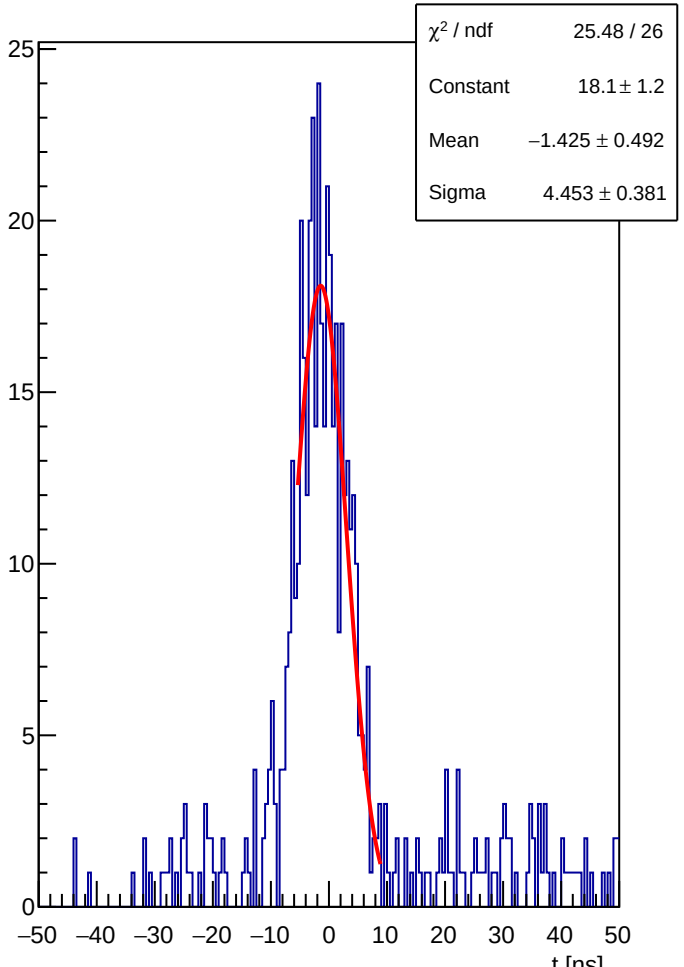

HCAL block 090 : t tw corr
χ² / ndf 34.03 / 23
Constant 19.91 ± 1.33
Mean −0.3719 ± 0.3844
Sigma 4.262 ± 0.361
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

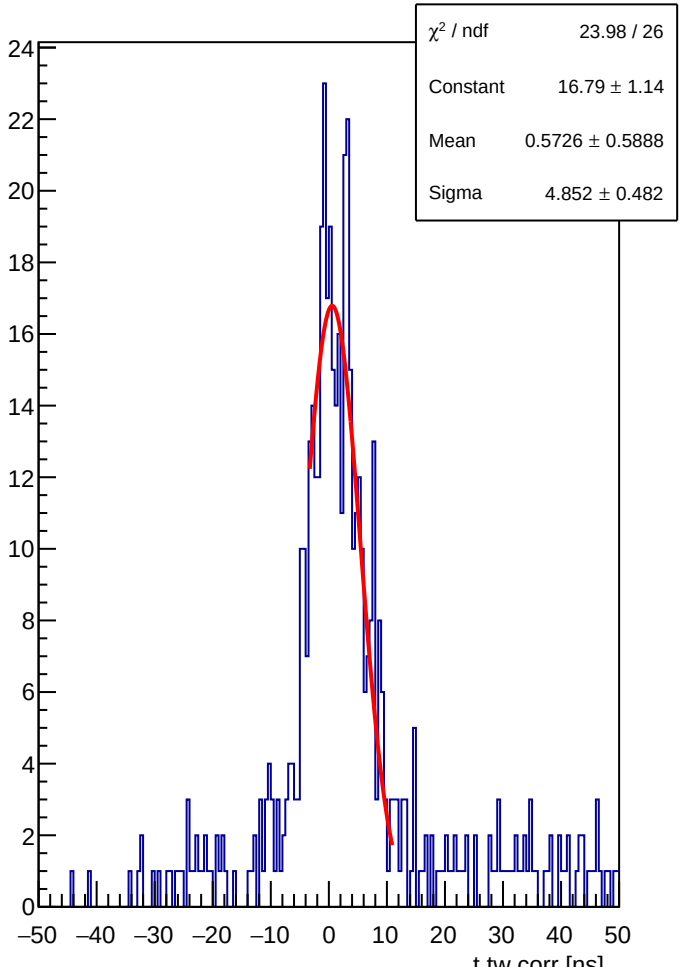

HCAL block 091 : t
χ² / ndf 34.88 / 24
Constant 27.83 ± 1.62
Mean −0.3248 ± 0.2610
Sigma 4.013 ± 0.254
t [ns]


HCAL block 091 : t tw corr
χ² / ndf 21.7 / 25
Constant 29.25 ± 1.63
Mean −0.4434 ± 0.2672
Sigma 3.972 ± 0.236
t tw corr [ns]


HCAL block 092 : t
χ² / ndf 29.16 / 23
Constant 21.88 ± 1.49
Mean −0.3208 ± 0.2513
Sigma 3.837 ± 0.269
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]


HCAL block 092 : t tw corr
χ² / ndf 27.01 / 23
Constant 22.6 ± 1.5
Mean 6.211 ± 0.241
Sigma 3.847 ± 0.270
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]


HCAL block 093 : t
χ² / ndf 25.48 / 26
Constant 18.1 ± 1.2
Mean −1.425 ± 0.492
Sigma 4.453 ± 0.381
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]


HCAL block 093 : t tw corr
χ² / ndf 23.98 / 26
Constant 16.79 ± 1.14
Mean 0.5726 ± 0.5888
Sigma 4.852 ± 0.482
24
22
20
18
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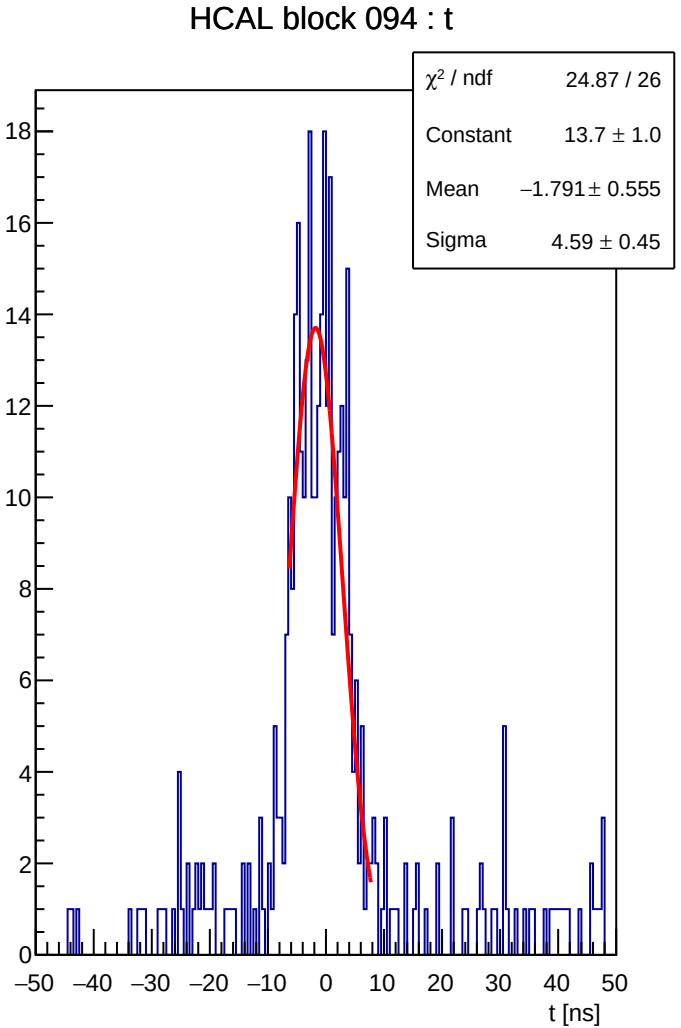
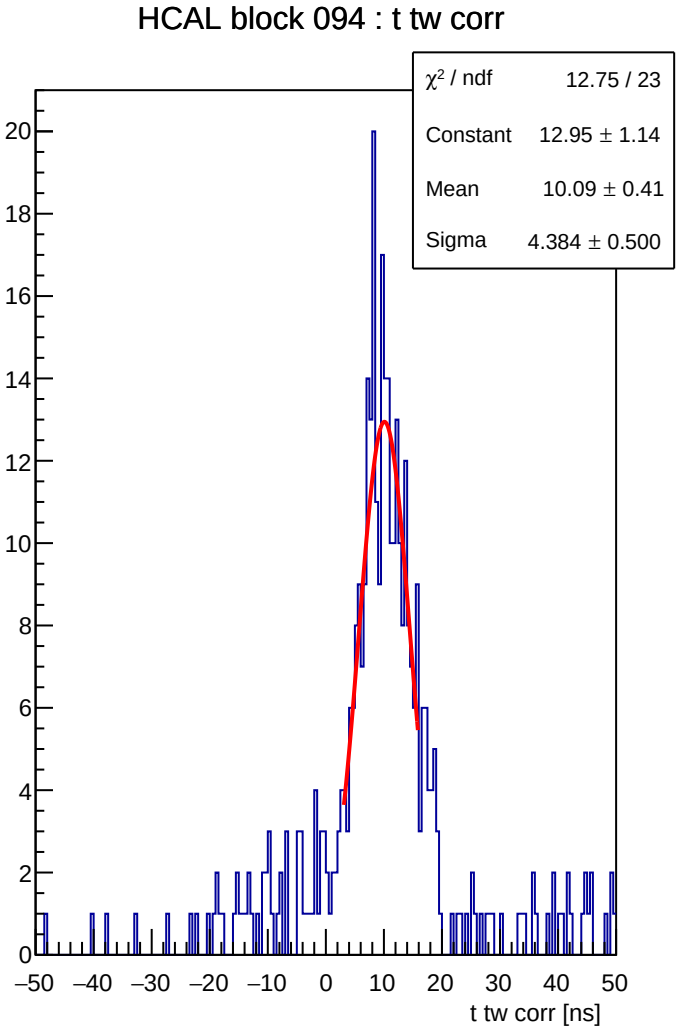
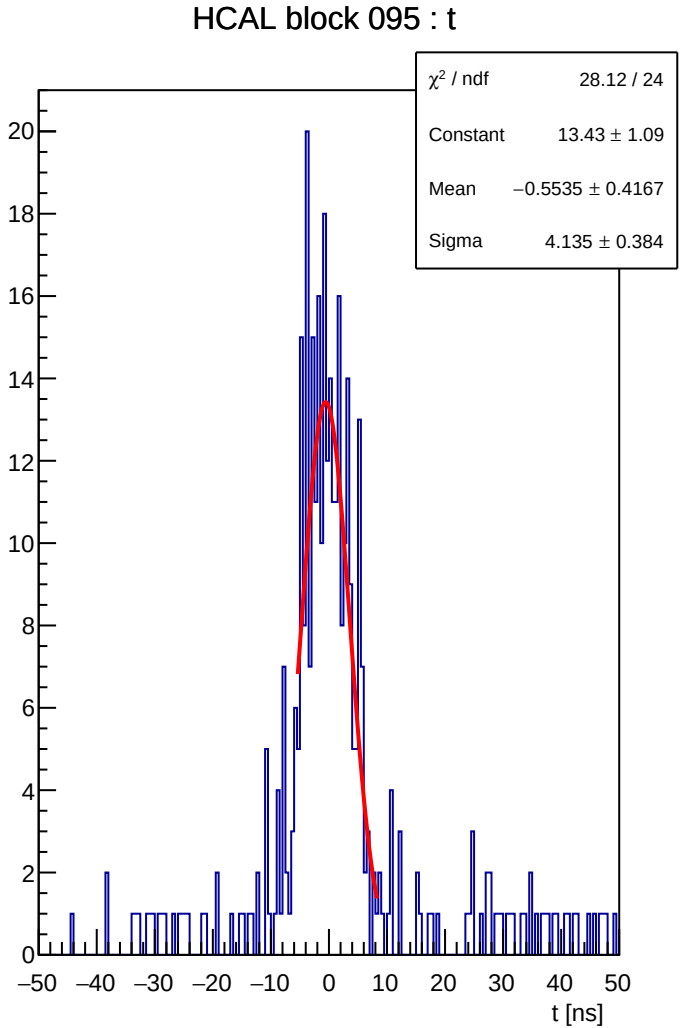
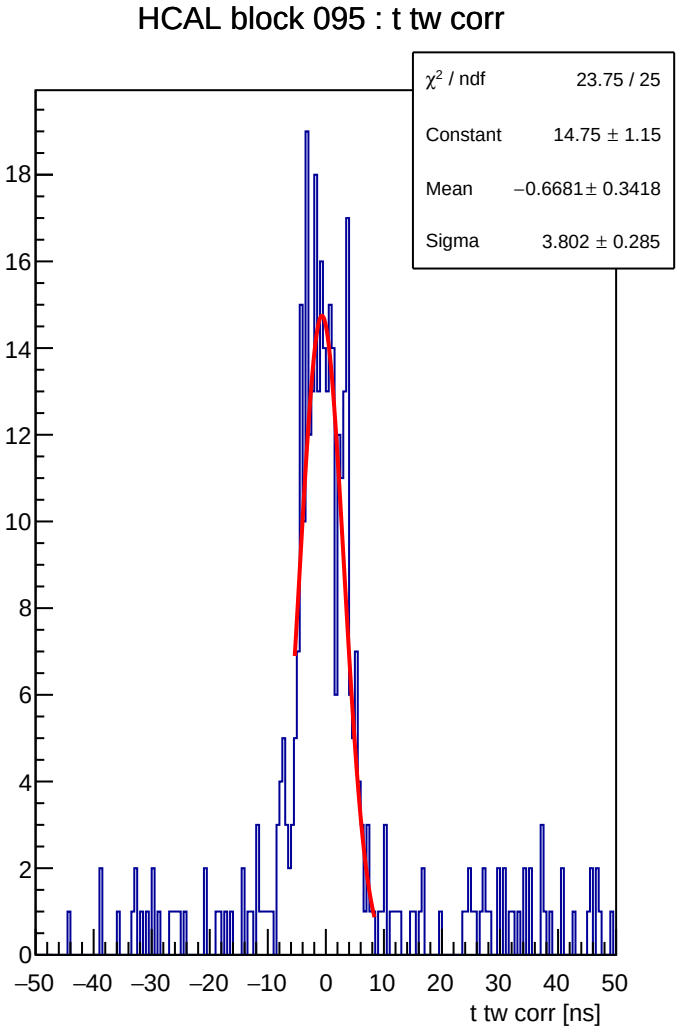
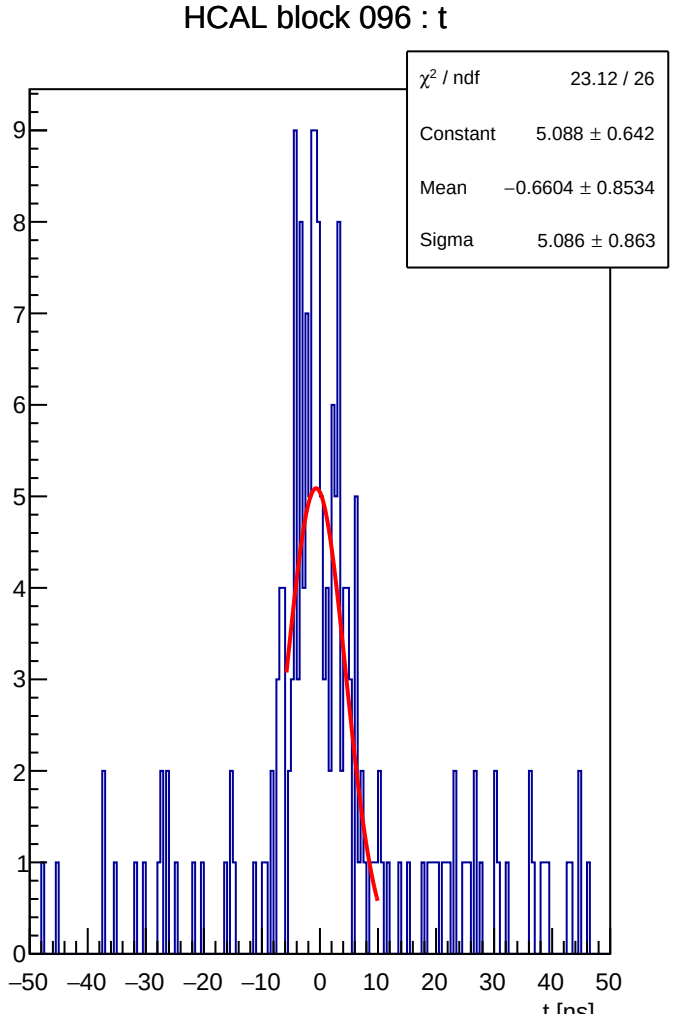
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

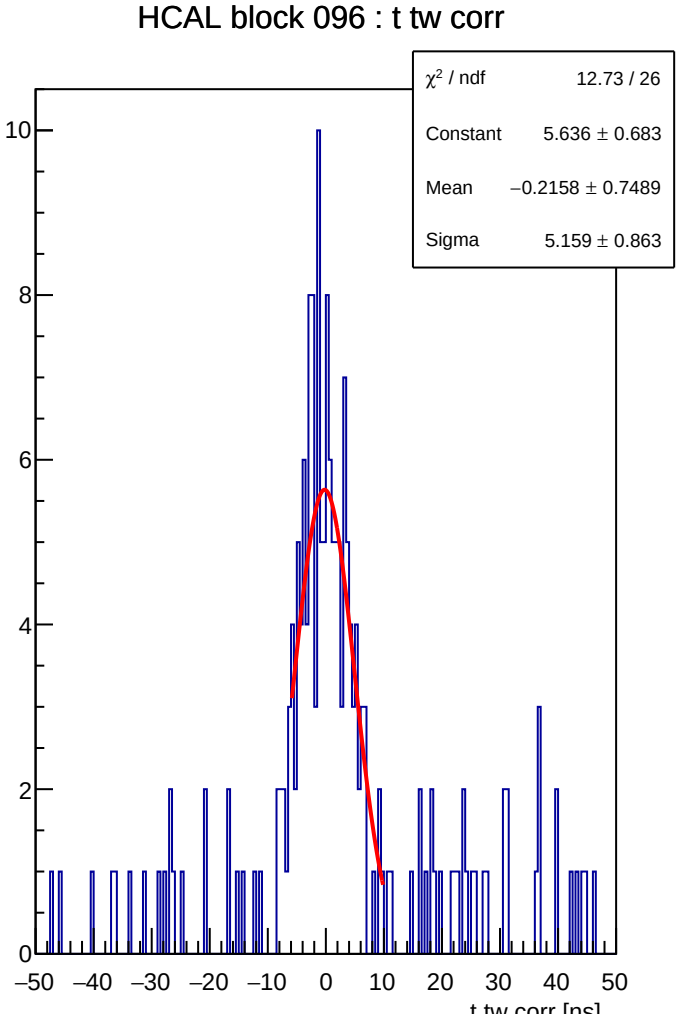

HCAL block 094 : t
χ² / ndf 24.87 / 26
Constant 13.7 ± 1.0
Mean −1.791 ± 0.555
Sigma 4.59 ± 0.45
t [ns]

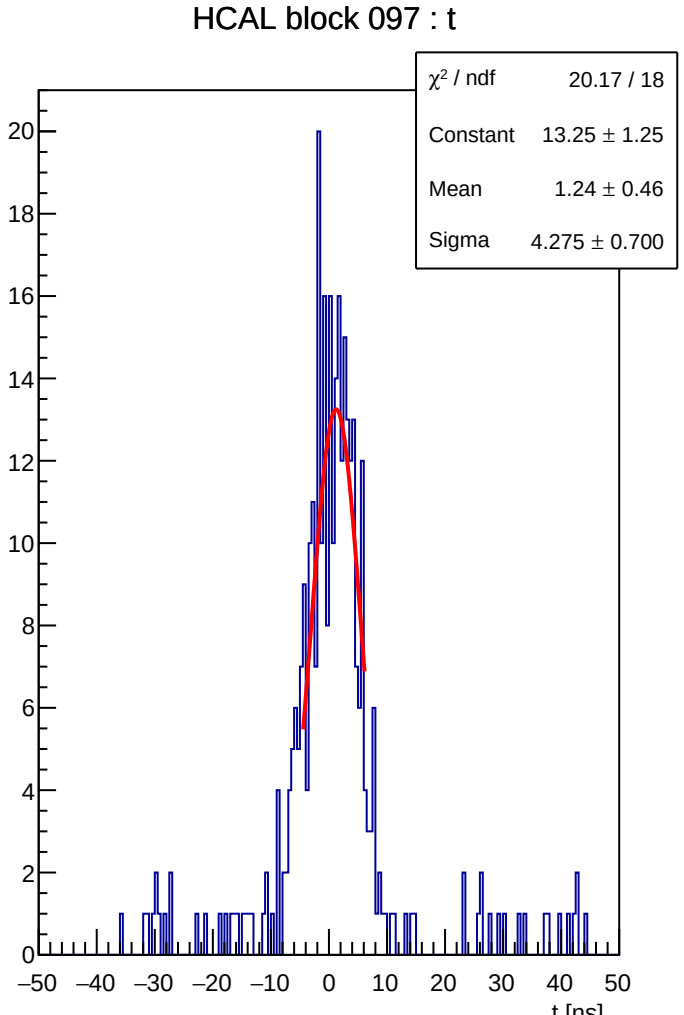

HCAL block 094 : t tw corr
χ² / ndf 12.75 / 23
Constant 12.95 ± 1.14
Mean 10.09 ± 0.41
Sigma 4.384 ± 0.500
t tw corr [ns]

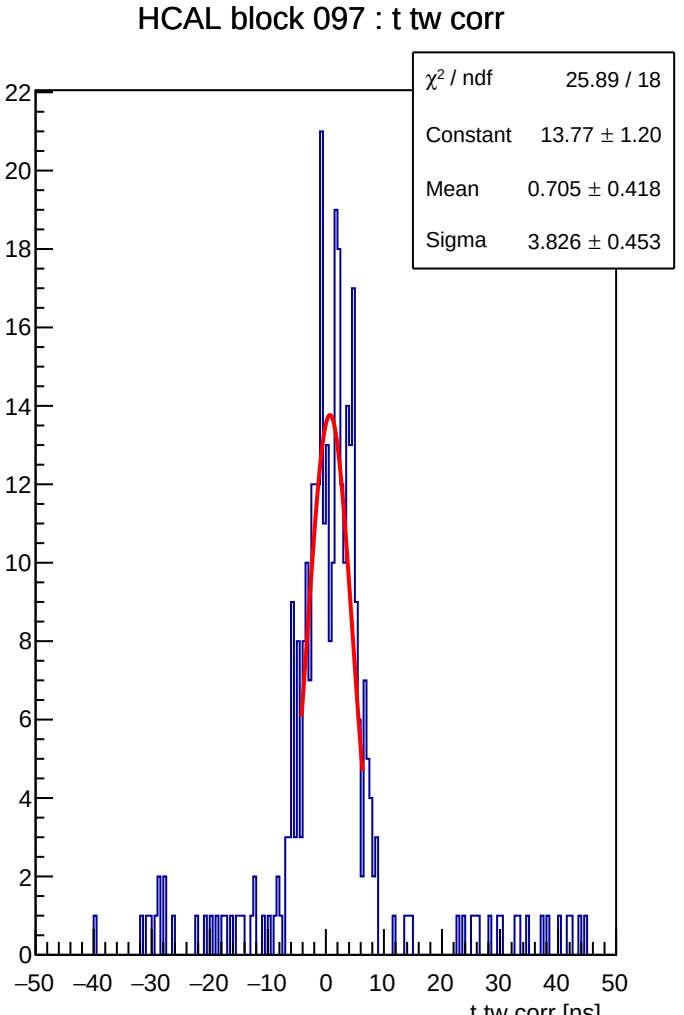

HCAL block 095 : t
χ² / ndf 28.12 / 24
Constant 13.43 ± 1.09
Mean −0.5535 ± 0.4167
Sigma 4.135 ± 0.384
t [ns]

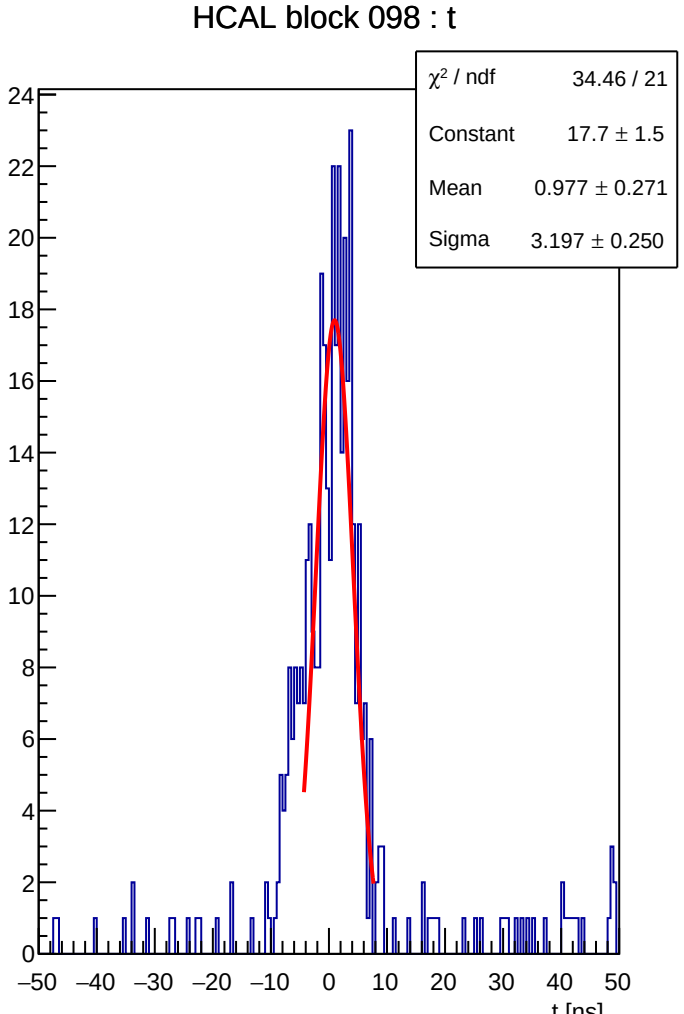

HCAL block 095 : t tw corr
χ² / ndf 23.75 / 25
Constant 14.75 ± 1.15
Mean −0.6681± 0.3418
Sigma 3.802 ± 0.285
t tw corr [ns]

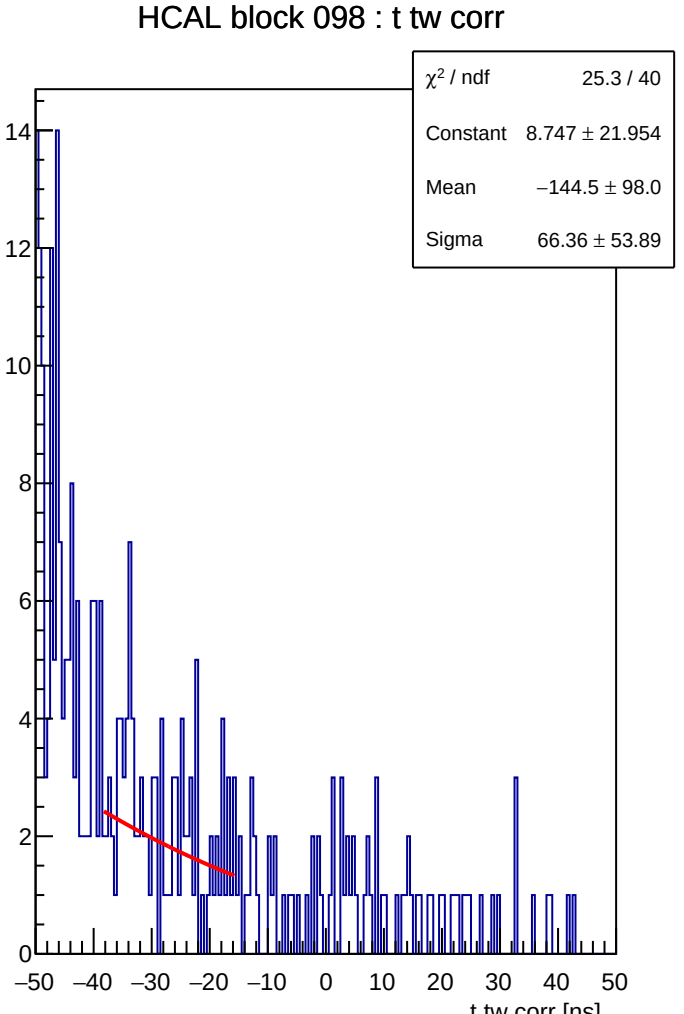

HCAL block 096 : t
χ² / ndf 23.12 / 26
Constant 5.088 ± 0.642
Mean −0.6604 ± 0.8534
Sigma 5.086 ± 0.863
t [ns]

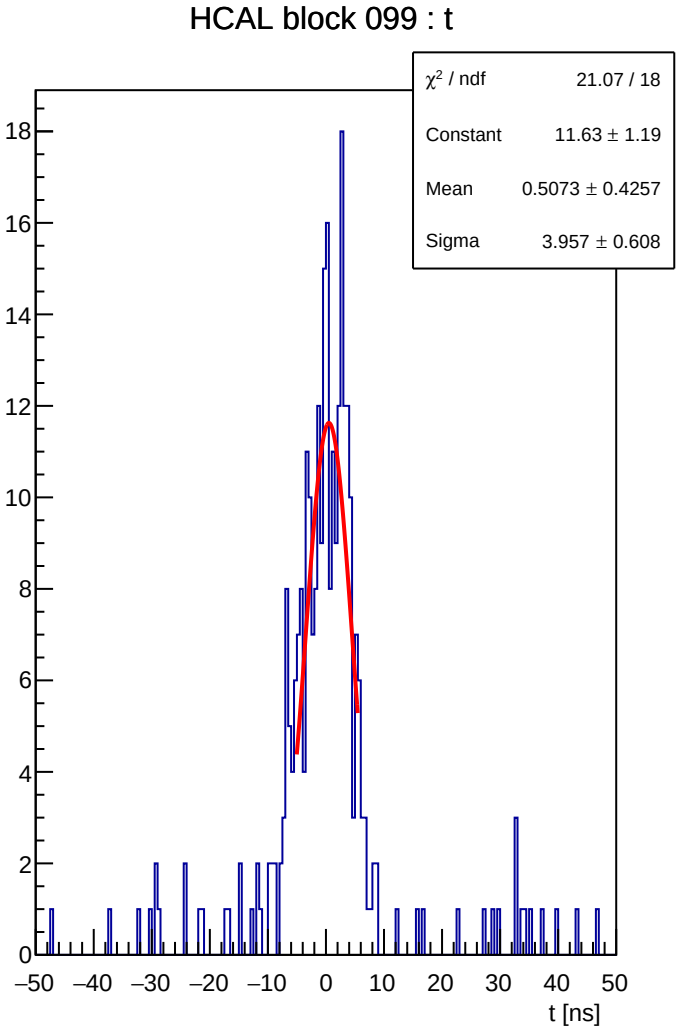

HCAL block 096 : t tw corr
χ² / ndf 12.73 / 26
Constant 5.636 ± 0.683
Mean −0.2158 ± 0.7489
Sigma 5.159 ± 0.863
t tw corr [ns]

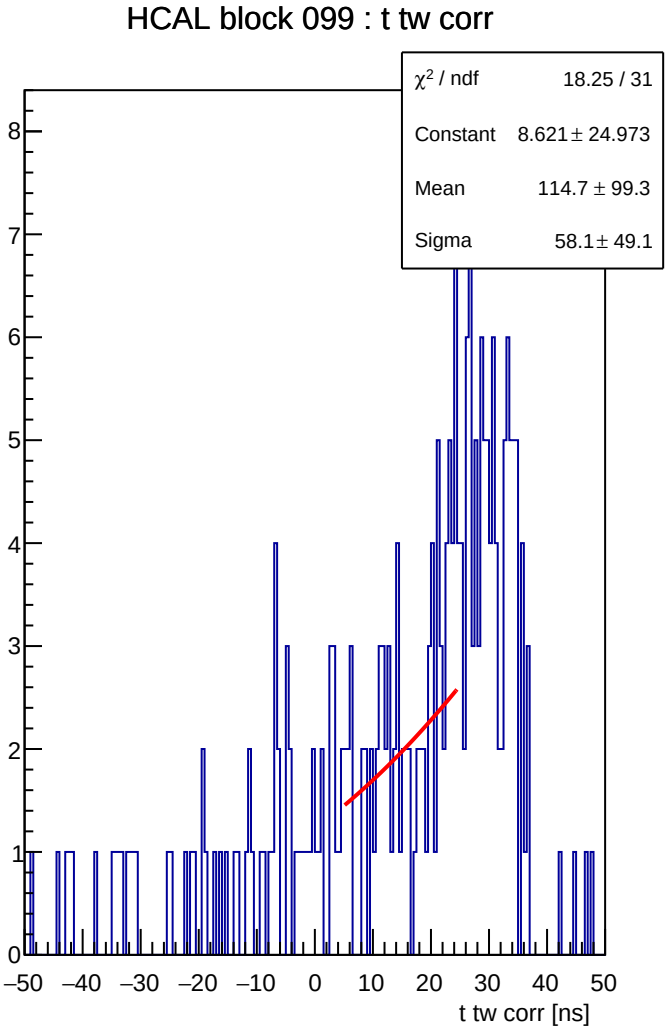

HCAL block 097 : t
χ² / ndf 20.17 / 18
Constant 13.25 ± 1.25
Mean 1.24 ± 0.46
Sigma 4.275 ± 0.700
t [ns]

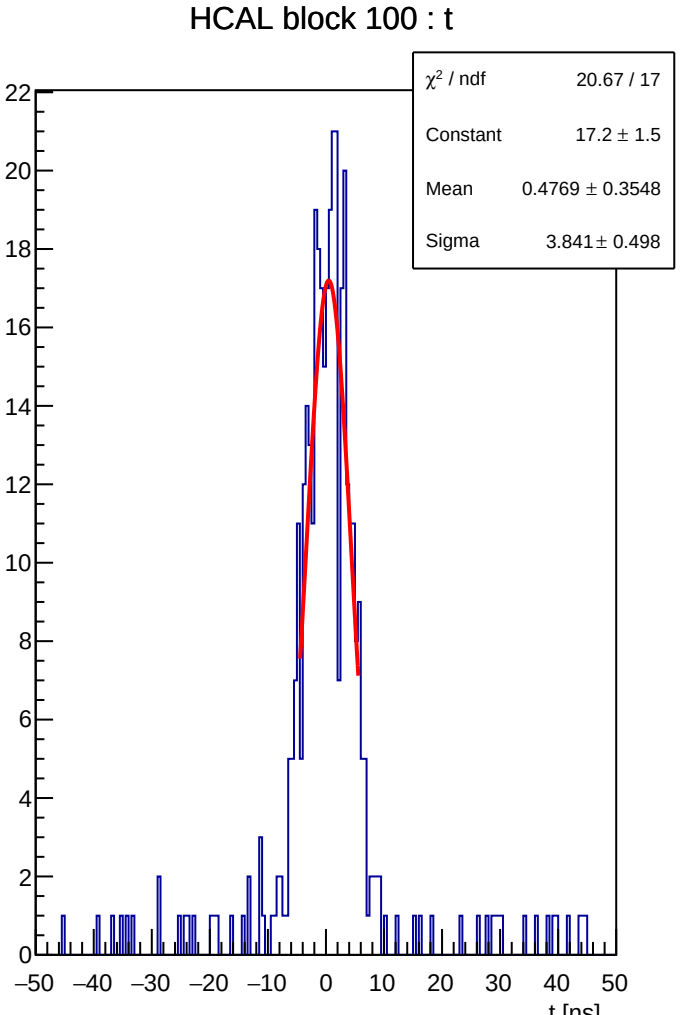

HCAL block 097 : t tw corr
χ² / ndf 25.89 / 18
Constant 13.77 ± 1.20
Mean 0.705 ± 0.418
Sigma 3.826 ± 0.453
t tw corr [ns]

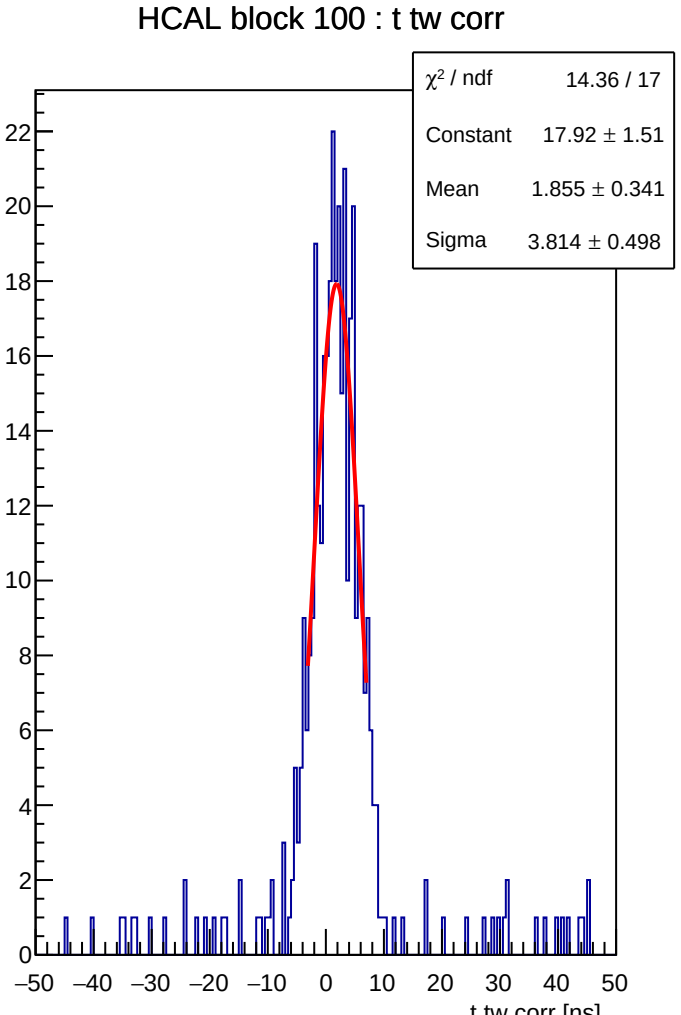

HCAL block 098 : t
χ² / ndf 34.46 / 21
Constant 17.7 ± 1.5
Mean 0.977 ± 0.271
Sigma 3.197 ± 0.250
t [ns]

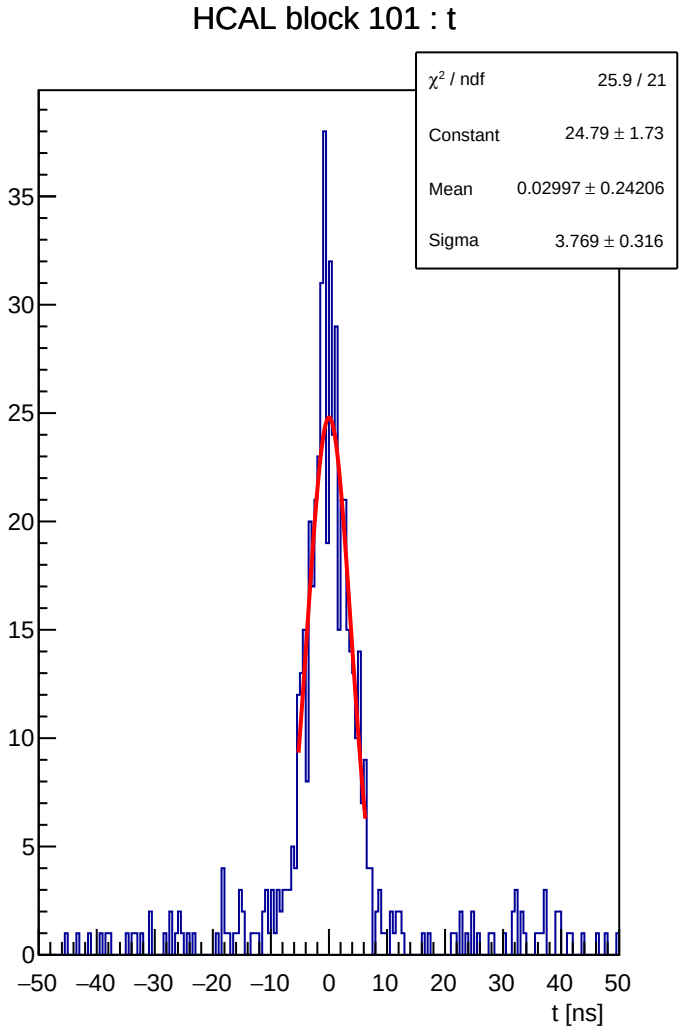

HCAL block 098 : t tw corr
χ² / ndf 25.3 / 40
Constant 8.747 ± 21.954
Mean −144.5 ± 98.0
Sigma 66.36 ± 53.89
t tw corr [ns]

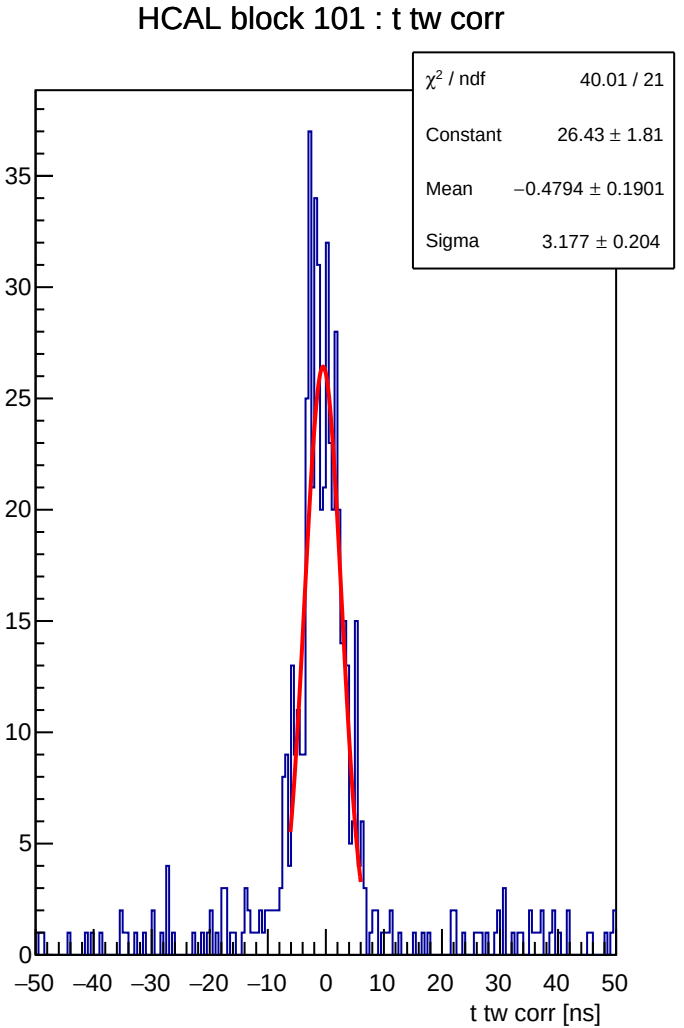

HCAL block 099 : t
χ² / ndf 21.07 / 18
Constant 11.63 ± 1.19
Mean 0.5073 ± 0.4257
Sigma 3.957 ± 0.608
t [ns]

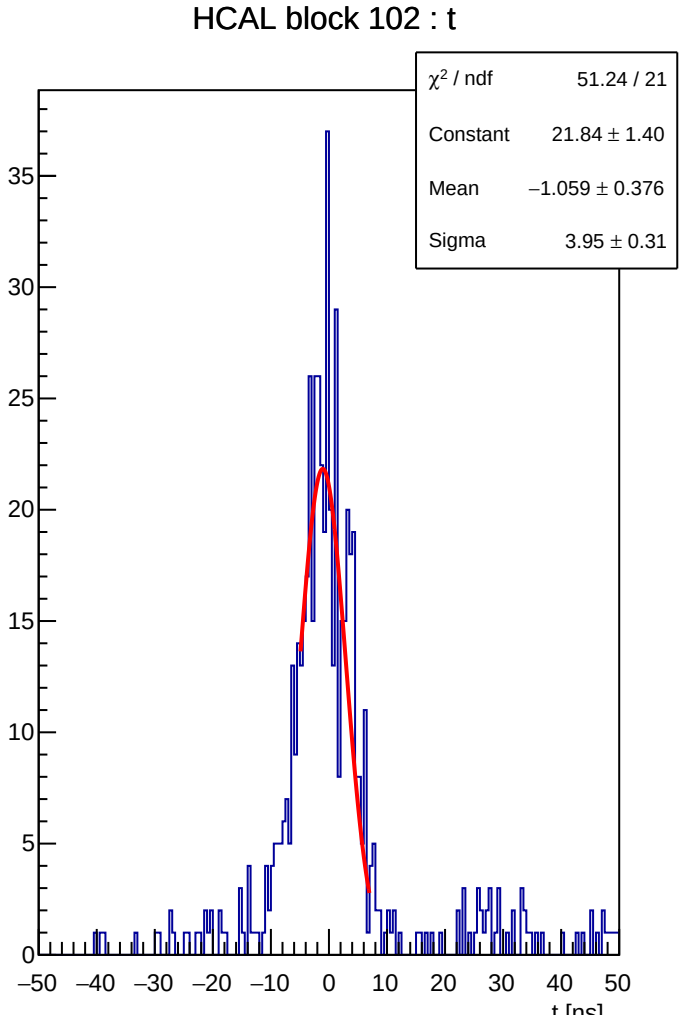

HCAL block 099 : t tw corr
χ² / ndf 18.25 / 31
Constant 8.621 ± 24.973
Mean 114.7 ± 99.3
Sigma 58.1 ± 49.1
t tw corr [ns]

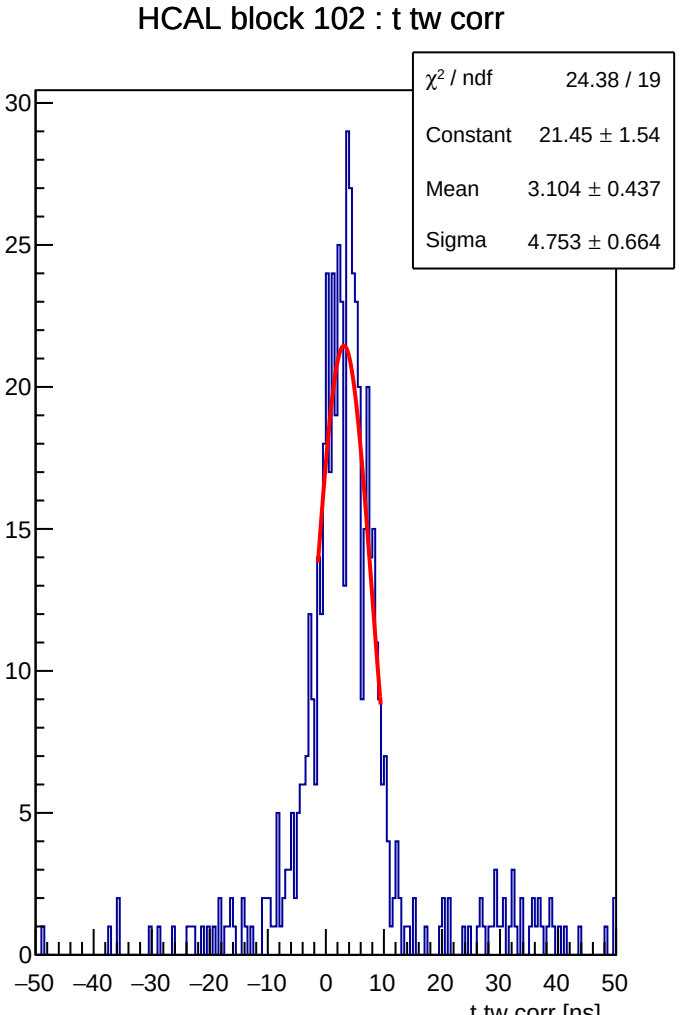

HCAL block 100 : t
χ² / ndf 20.67 / 17
Constant 17.2 ± 1.5
Mean 0.4769 ± 0.3548
Sigma 3.841 ± 0.498
t [ns]

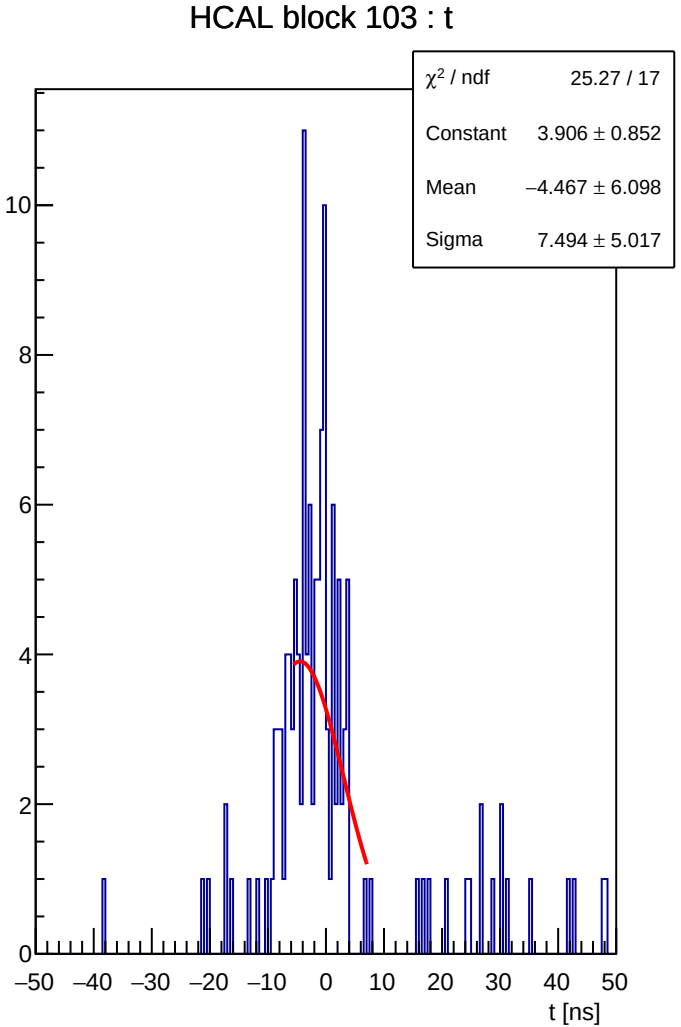

HCAL block 100 : t tw corr
χ² / ndf 14.36 / 17
Constant 17.92 ± 1.51
Mean 1.855 ± 0.341
Sigma 3.814 ± 0.498
t tw corr [ns]

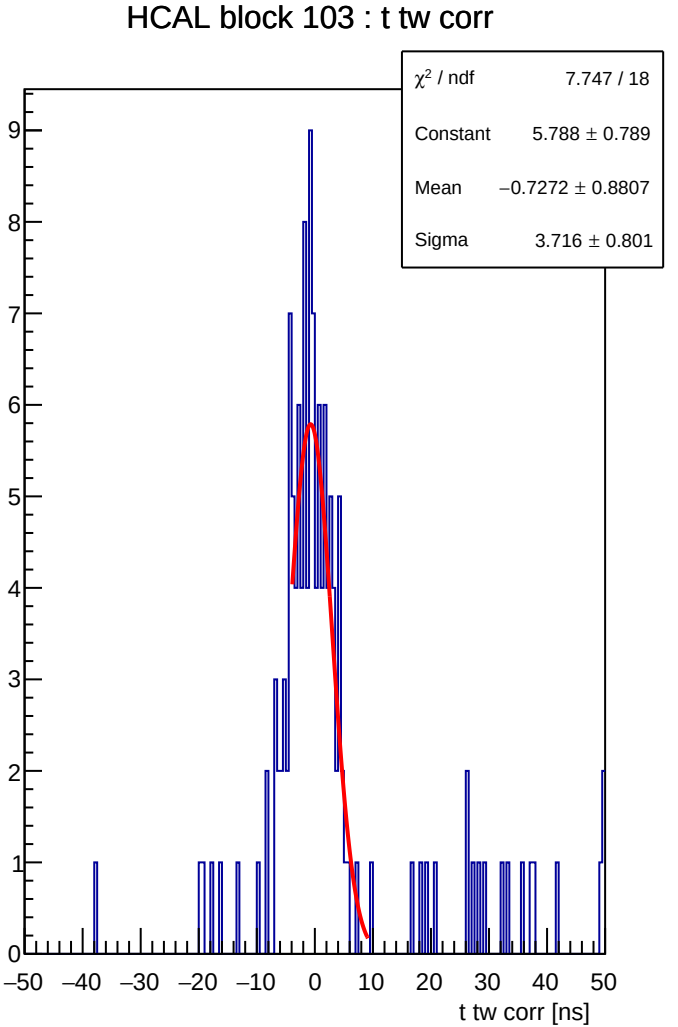

HCAL block 101 : t
χ² / ndf 25.9 / 21
Constant 24.79 ± 1.73
Mean 0.02997 ± 0.24206
Sigma 3.769 ± 0.316
35
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

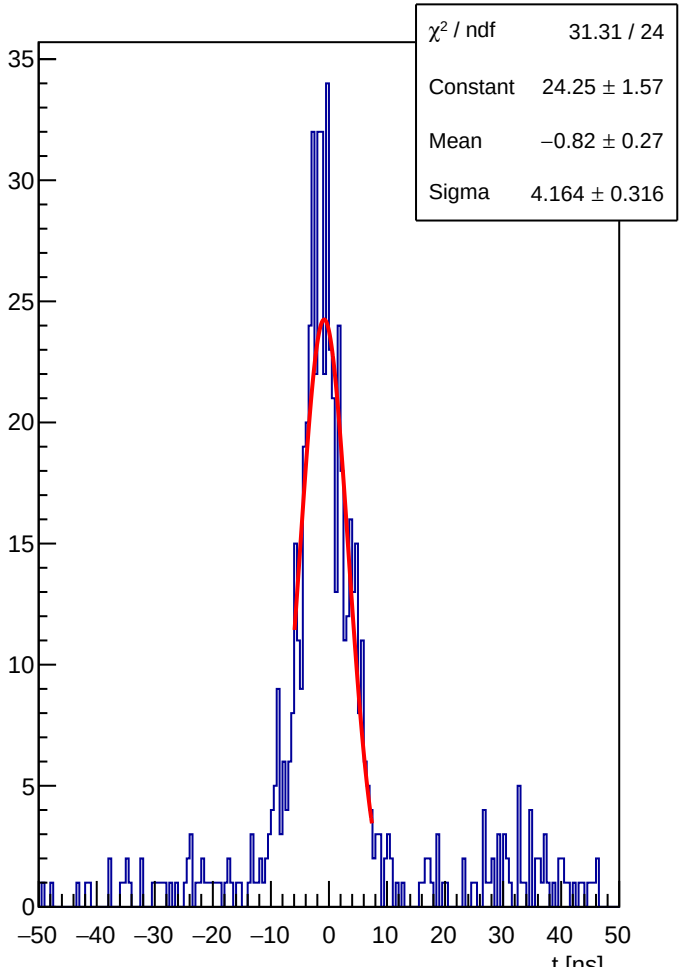

HCAL block 101 : t tw corr
χ² / ndf 40.01 / 21
Constant 26.43 ± 1.81
Mean −0.4794 ± 0.1901
Sigma 3.177 ± 0.204
35
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

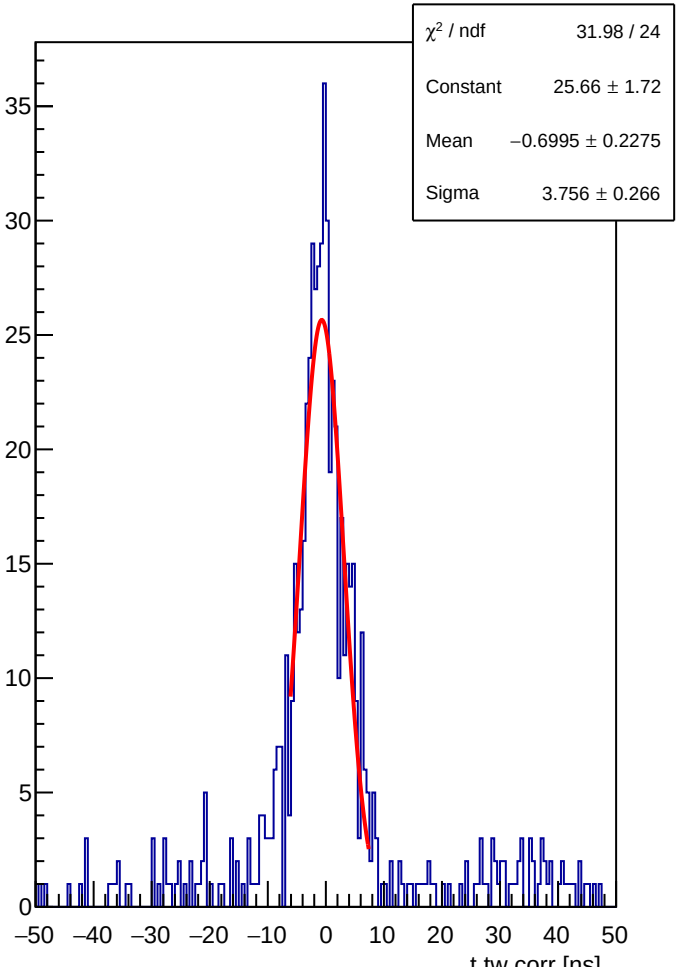

HCAL block 102 : t
χ² / ndf 51.24 / 21
Constant 21.84 ± 1.40
Mean −1.059 ± 0.376
Sigma 3.95 ± 0.31
t [ns]

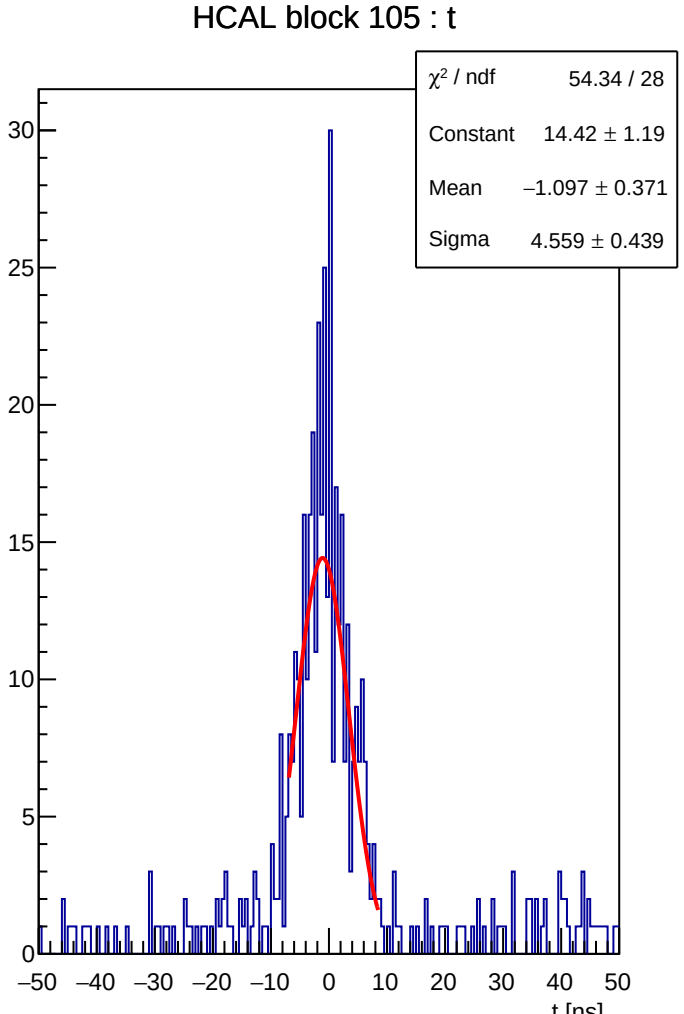

HCAL block 102 : t tw corr
χ² / ndf 24.38 / 19
Constant 21.45 ± 1.54
Mean 3.104 ± 0.437
Sigma 4.753 ± 0.664
t tw corr [ns]

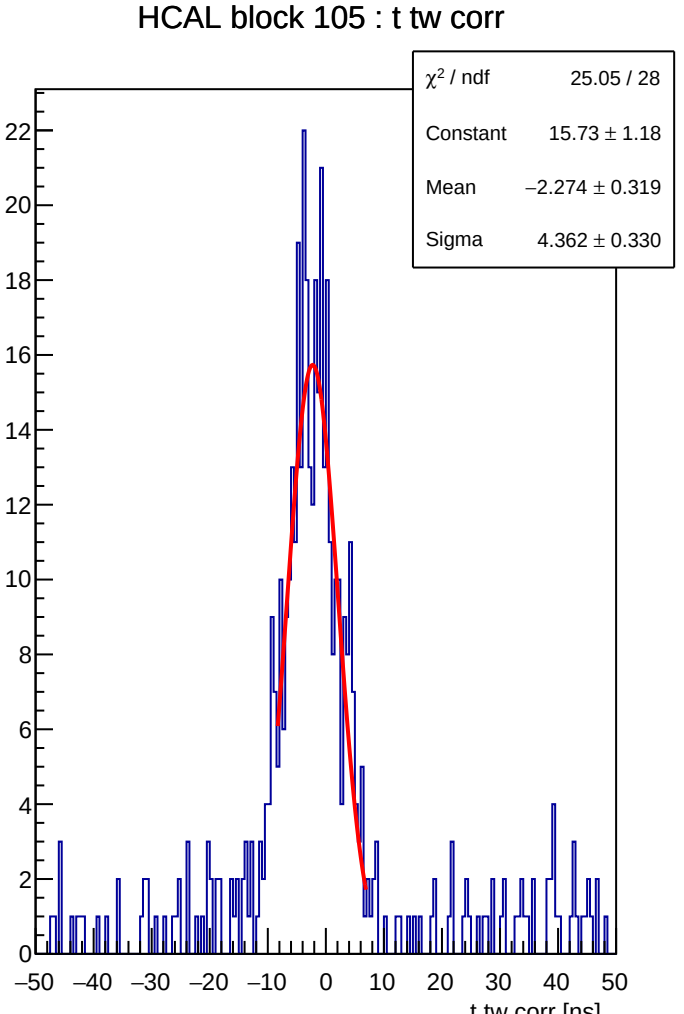

HCAL block 103 : t
χ² / ndf 25.27 / 17
Constant 3.906 ± 0.852
Mean −4.467 ± 6.098
Sigma 7.494 ± 5.017
t [ns]

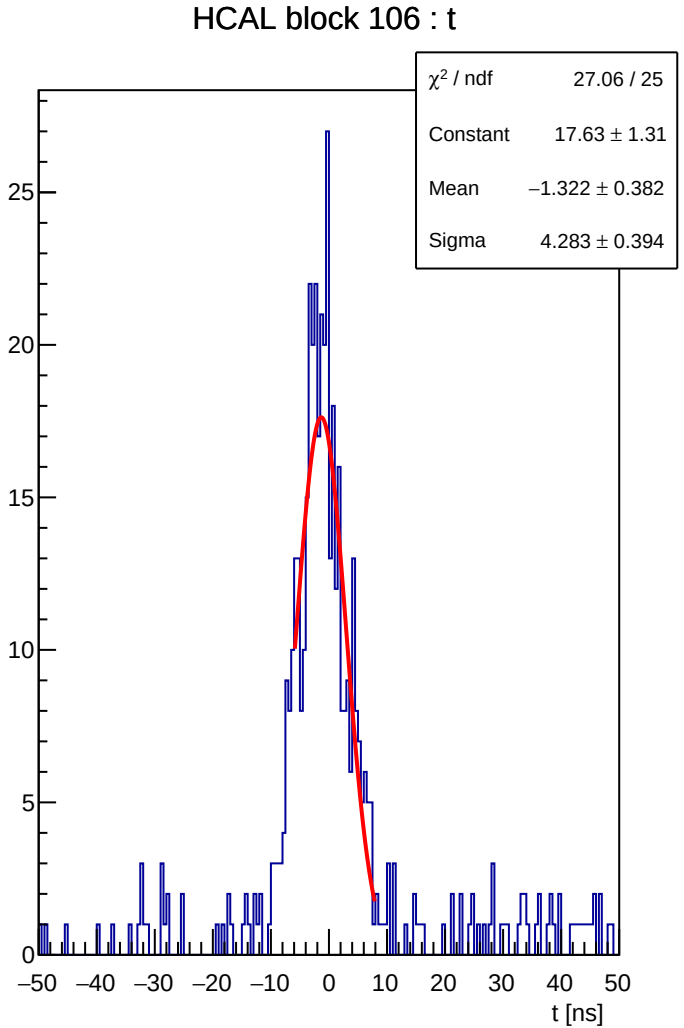

HCAL block 103 : t tw corr
χ² / ndf 7.747 / 18
Constant 5.788 ± 0.789
Mean −0.7272 ± 0.8807
Sigma 3.716 ± 0.801
t tw corr [ns]

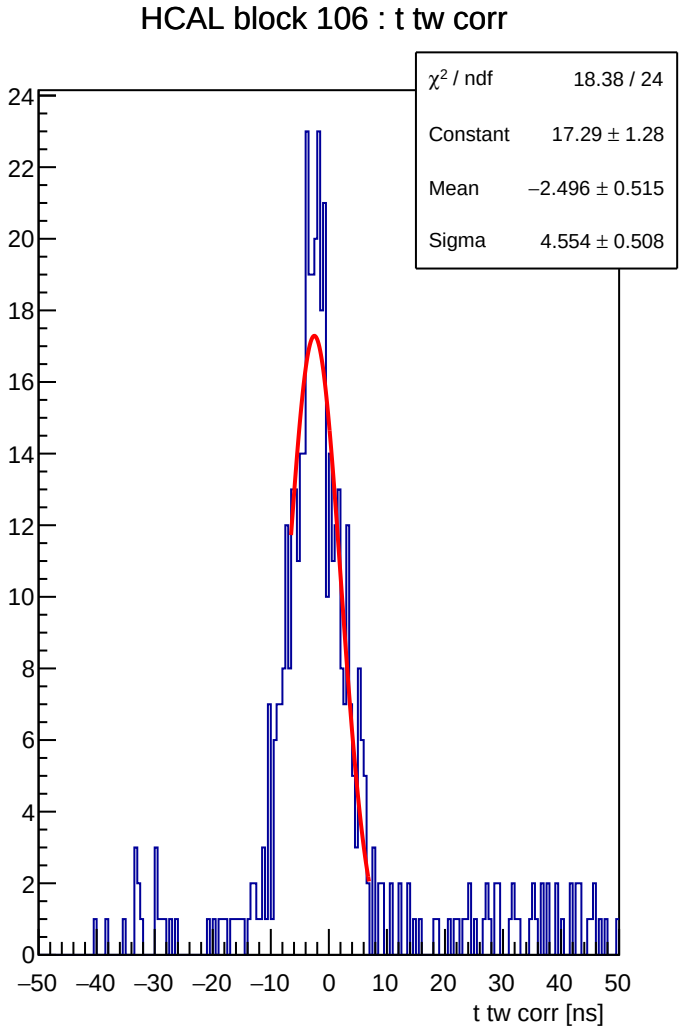

HCAL block 104 : t
χ² / ndf 31.31 / 24
Constant 24.25 ± 1.57
Mean −0.82 ± 0.27
Sigma 4.164 ± 0.316
35
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

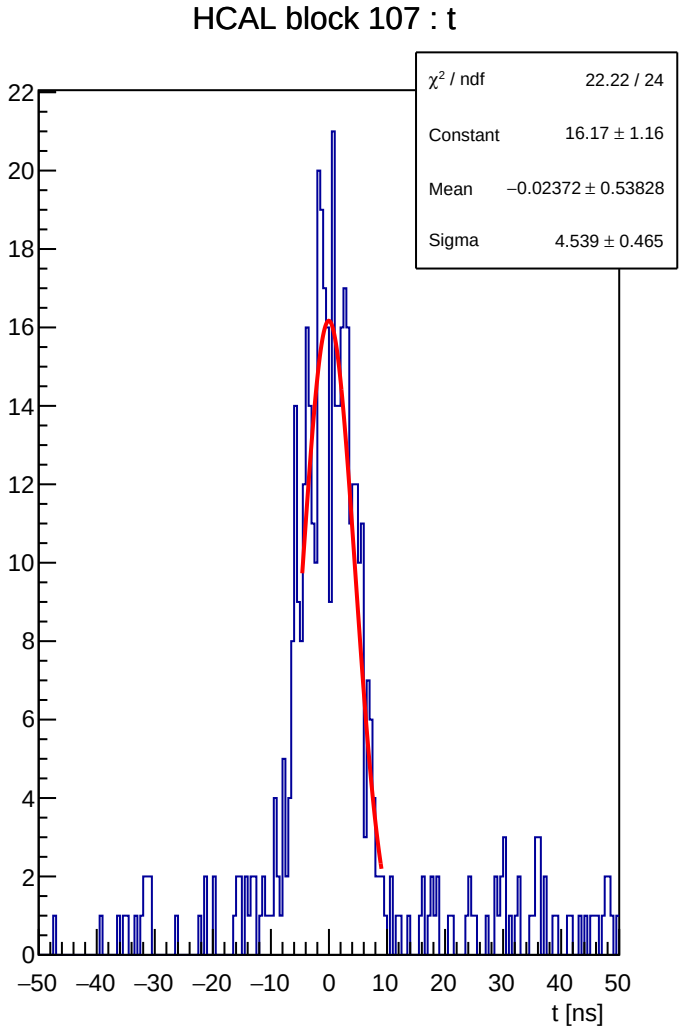

HCAL block 104 : t tw corr
χ² / ndf 31.98 / 24
Constant 25.66 ± 1.72
Mean −0.6995 ± 0.2275
Sigma 3.756 ± 0.266
35
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

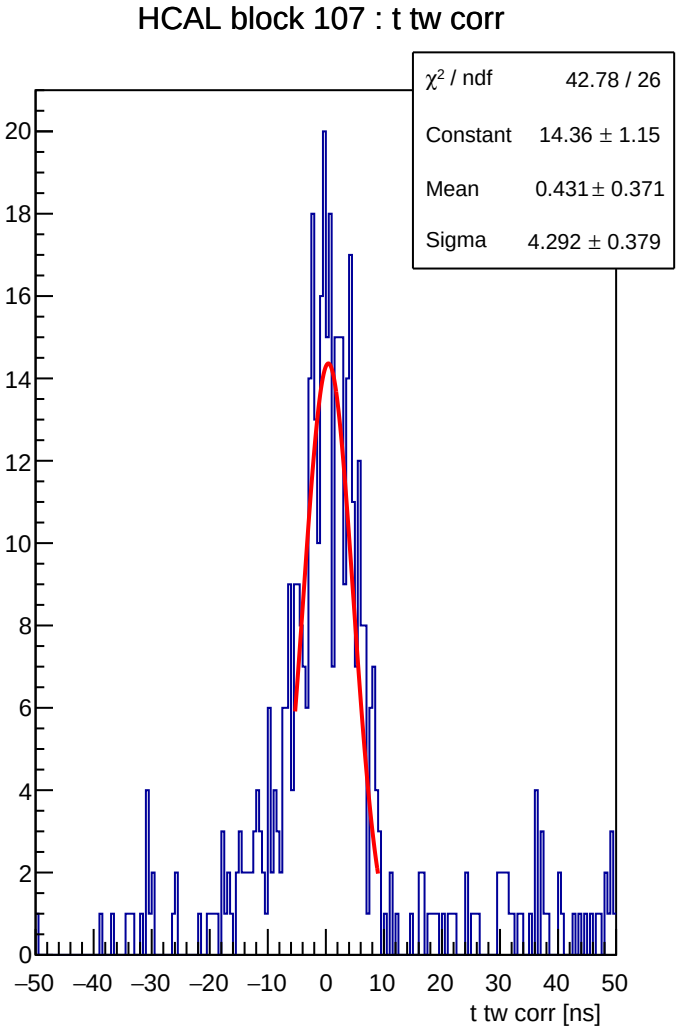

HCAL block 105 : t
χ² / ndf 54.34 / 28
Constant 14.42 ± 1.19
Mean −1.097 ± 0.371
Sigma 4.559 ± 0.439
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

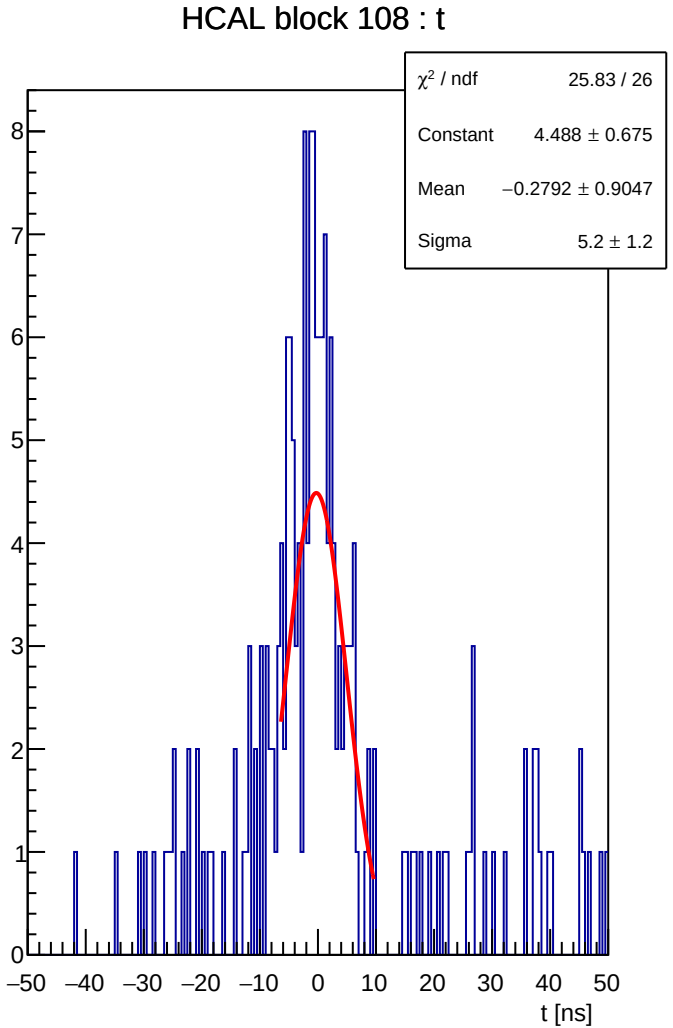

HCAL block 105 : t tw corr
χ² / ndf 25.05 / 28
Constant 15.73 ± 1.18
Mean −2.274 ± 0.319
Sigma 4.362 ± 0.330
22
20
18
16
14
12
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

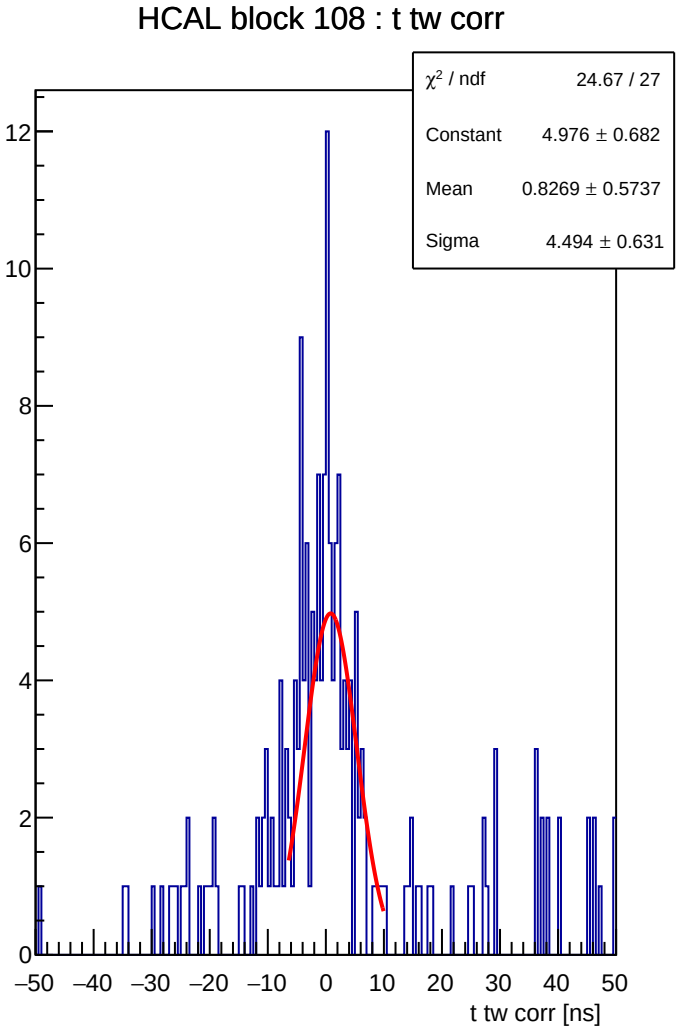

HCAL block 106 : t
χ² / ndf 27.06 / 25
Constant 17.63 ± 1.31
Mean −1.322 ± 0.382
Sigma 4.283 ± 0.394
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

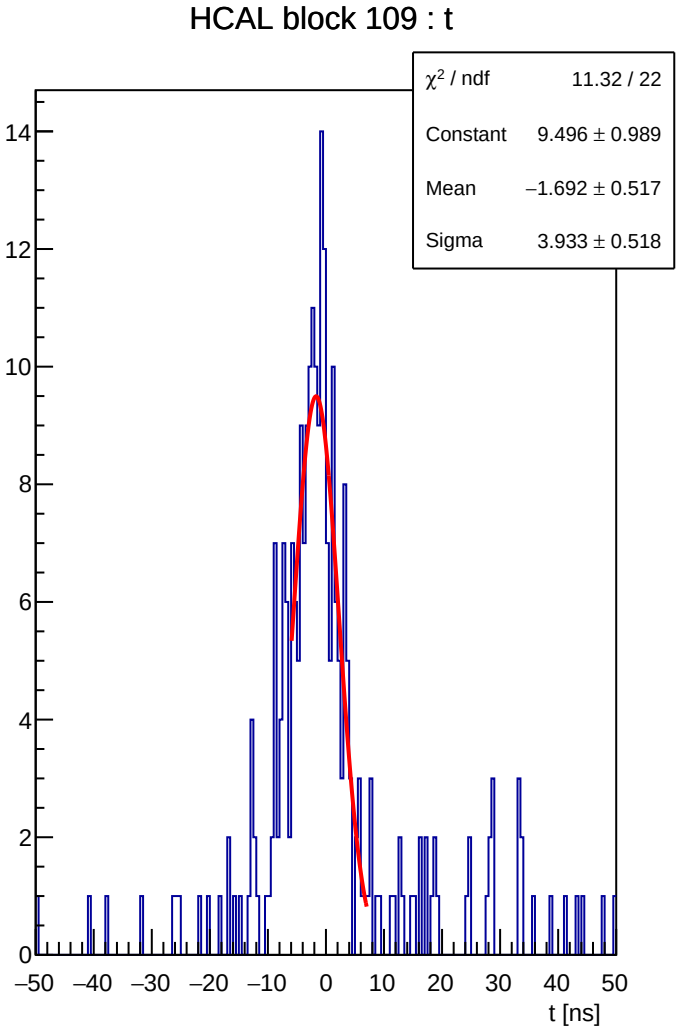

HCAL block 106 : t tw corr
χ² / ndf 18.38 / 24
Constant 17.29 ± 1.28
Mean −2.496 ± 0.515
Sigma 4.554 ± 0.508
24
22
20
18
16
14
12
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

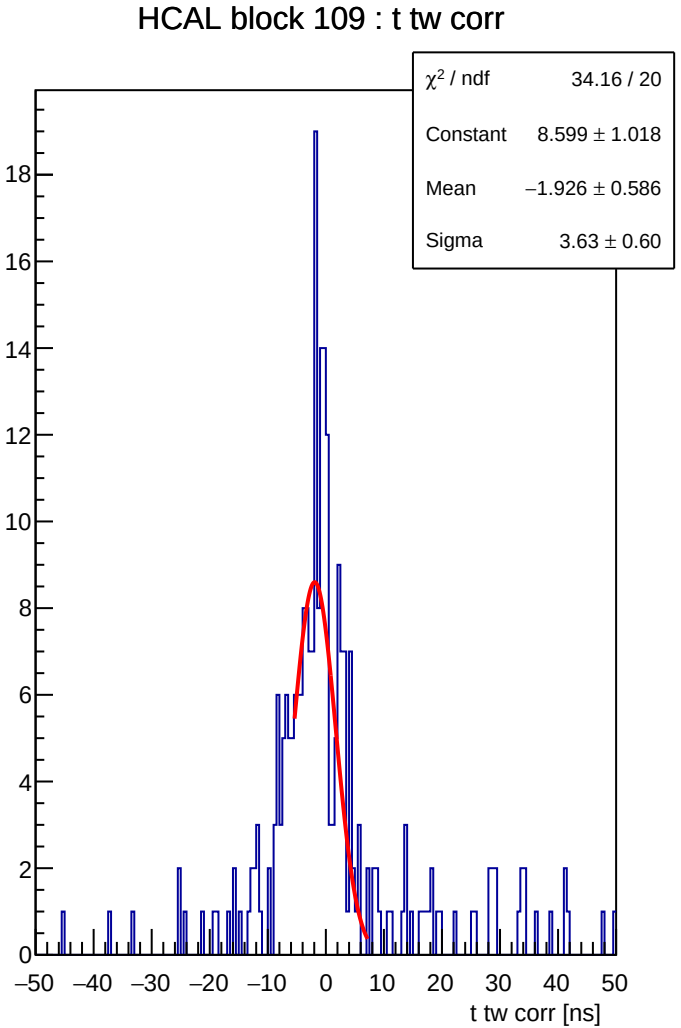

HCAL block 107 : t
χ² / ndf 22.22 / 24
Constant 16.17 ± 1.16
Mean −0.02372 ± 0.53828
Sigma 4.539 ± 0.465
t [ns]

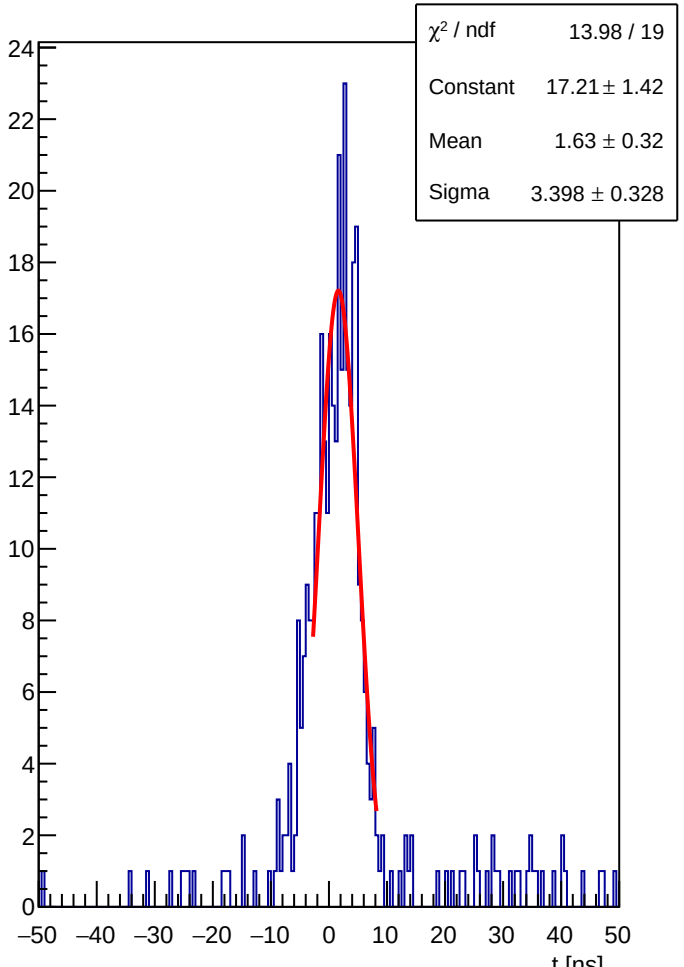

HCAL block 107 : t tw corr
χ² / ndf 42.78 / 26
Constant 14.36 ± 1.15
Mean 0.431 ± 0.371
Sigma 4.292 ± 0.379
t tw corr [ns]

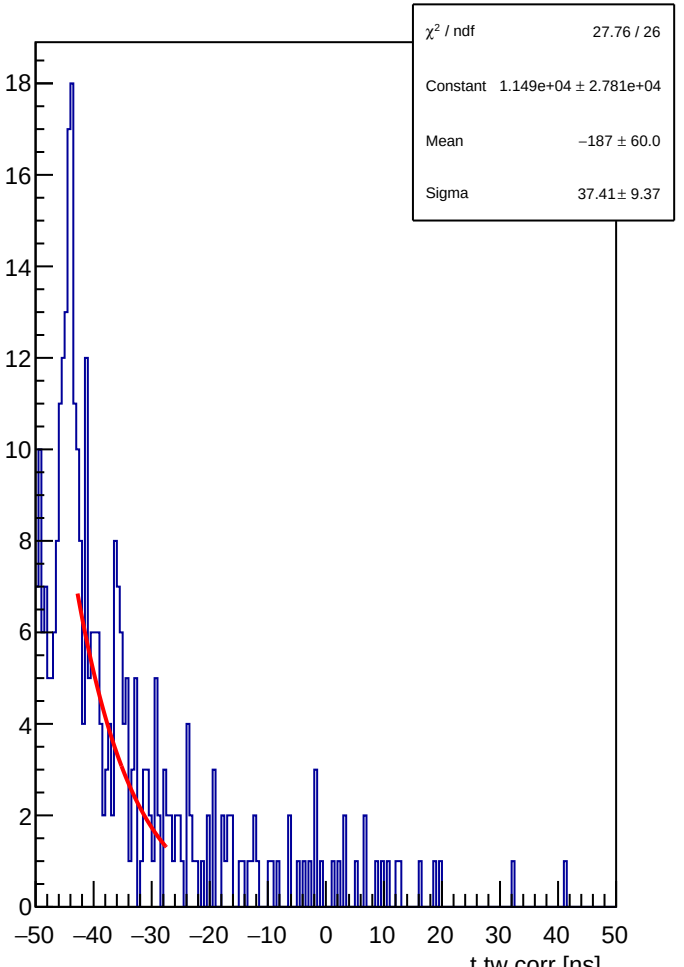

HCAL block 108 : t
χ² / ndf 25.83 / 26
Constant 4.488 ± 0.675
Mean −0.2792 ± 0.9047
Sigma 5.2 ± 1.2
t [ns]

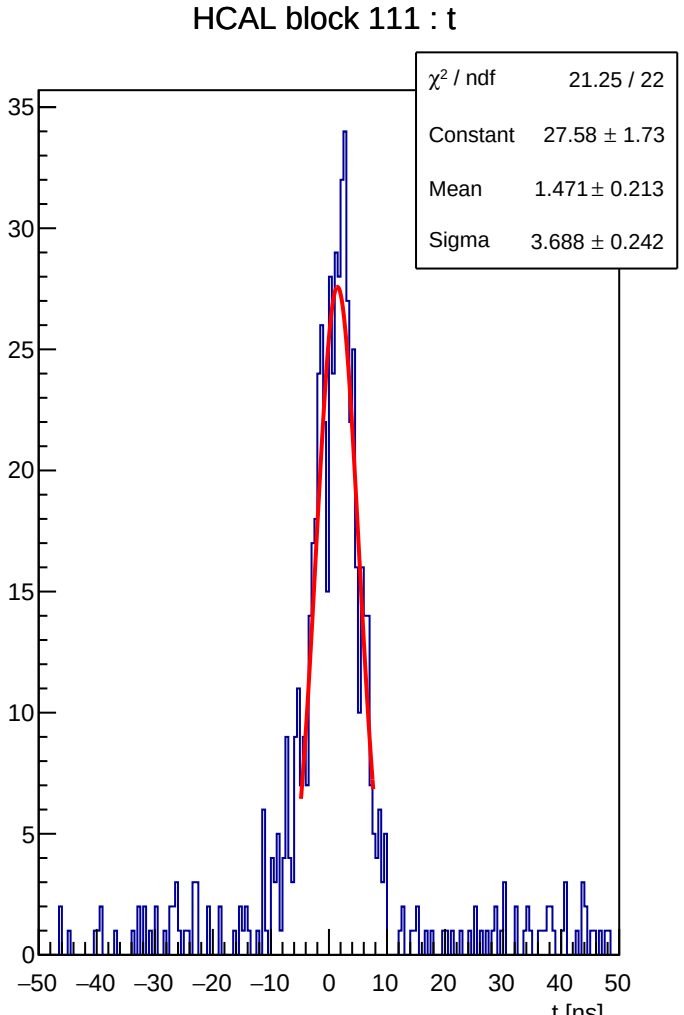

HCAL block 108 : t tw corr
χ² / ndf 24.67 / 27
Constant 4.976 ± 0.682
Mean 0.8269 ± 0.5737
Sigma 4.494 ± 0.631
t tw corr [ns]

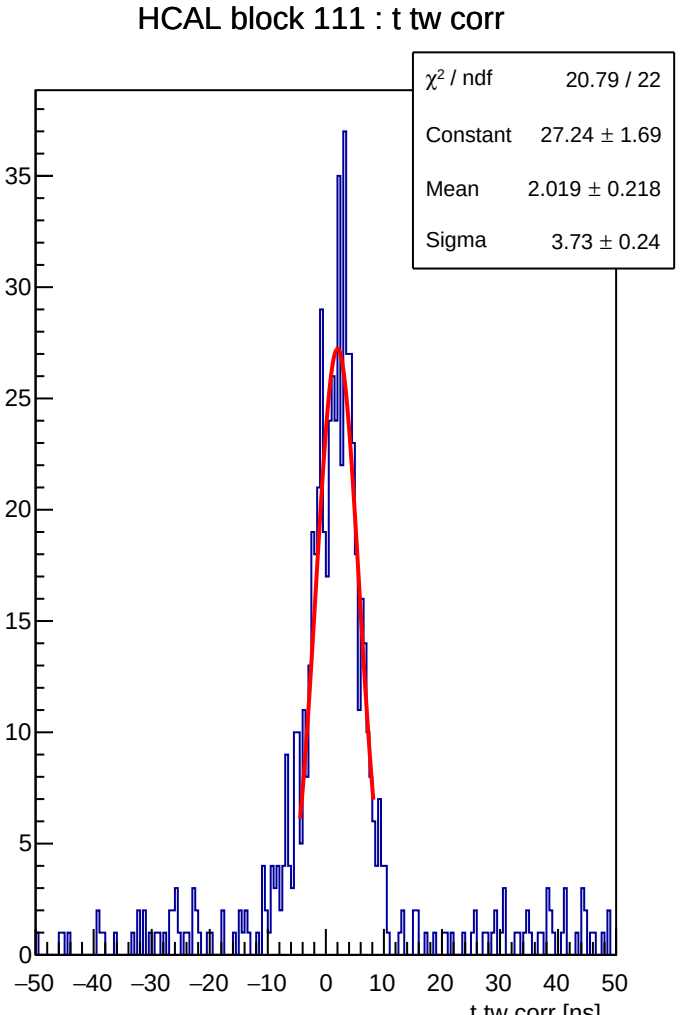

HCAL block 109 : t
χ² / ndf 11.32 / 22
Constant 9.496 ± 0.989
Mean −1.692 ± 0.517
Sigma 3.933 ± 0.518
14
12
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

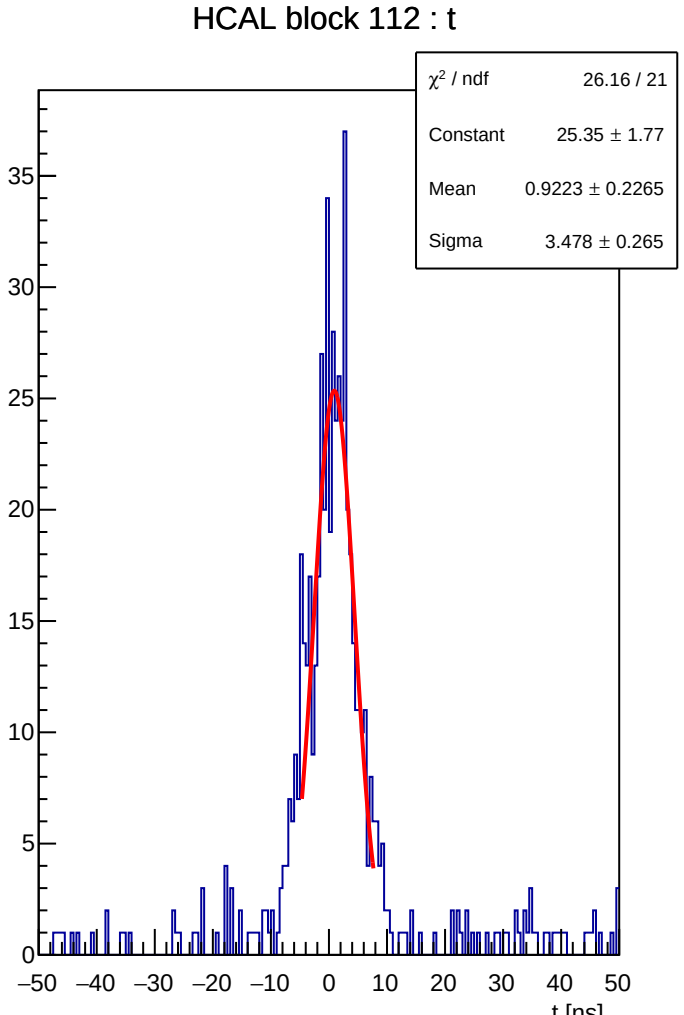

HCAL block 109 : t tw corr
χ² / ndf 34.16 / 20
Constant 8.599 ± 1.018
Mean −1.926 ± 0.586
Sigma 3.63 ± 0.60
18
16
14
12
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

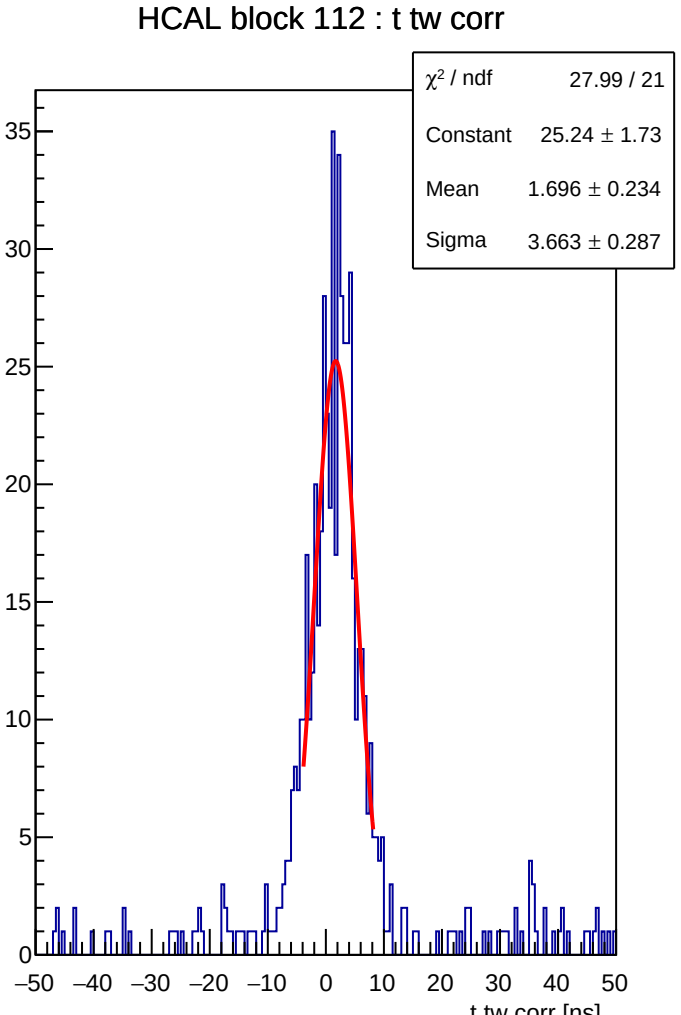

HCAL block 110 : t
χ² / ndf 13.98 / 19
Constant 17.21 ± 1.42
Mean 1.63 ± 0.32
Sigma 3.398 ± 0.328
t [ns]

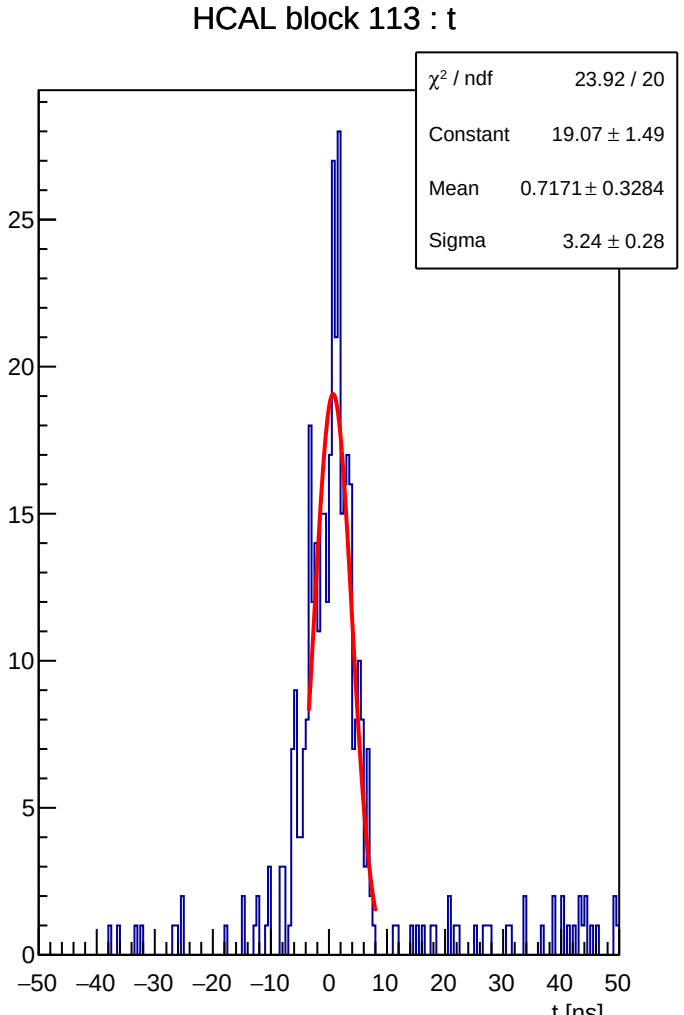

HCAL block 110 : t tw corr
χ² / ndf 27.76 / 26
Constant 1.149e+04 ± 2.781e+04
Mean −187 ± 60.0
Sigma 37.41 ± 9.37
t tw corr [ns]

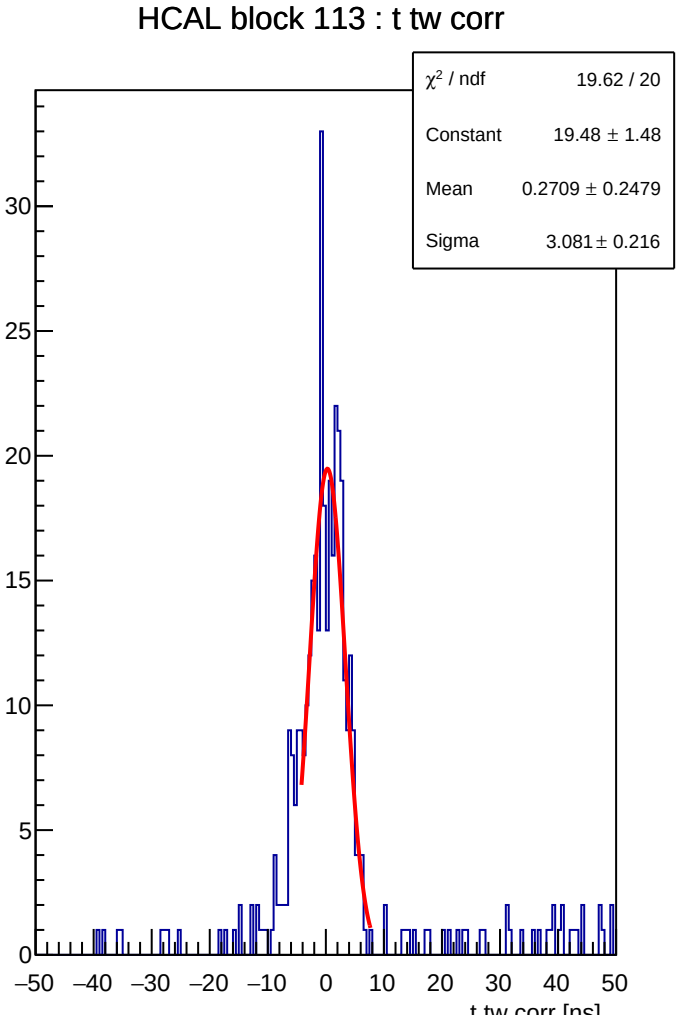

HCAL block 111 : t
χ² / ndf 21.25 / 22
Constant 27.58 ± 1.73
Mean 1.471 ± 0.213
Sigma 3.688 ± 0.242
35
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

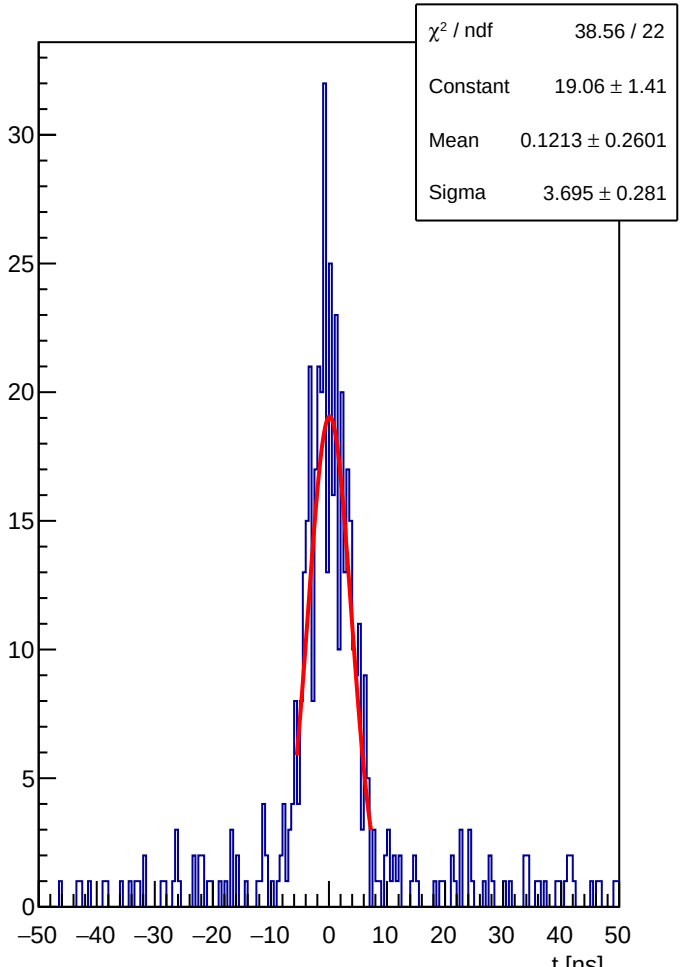

HCAL block 111 : t tw corr
χ² / ndf 20.79 / 22
Constant 27.24 ± 1.69
Mean 2.019 ± 0.218
Sigma 3.73 ± 0.24
35
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

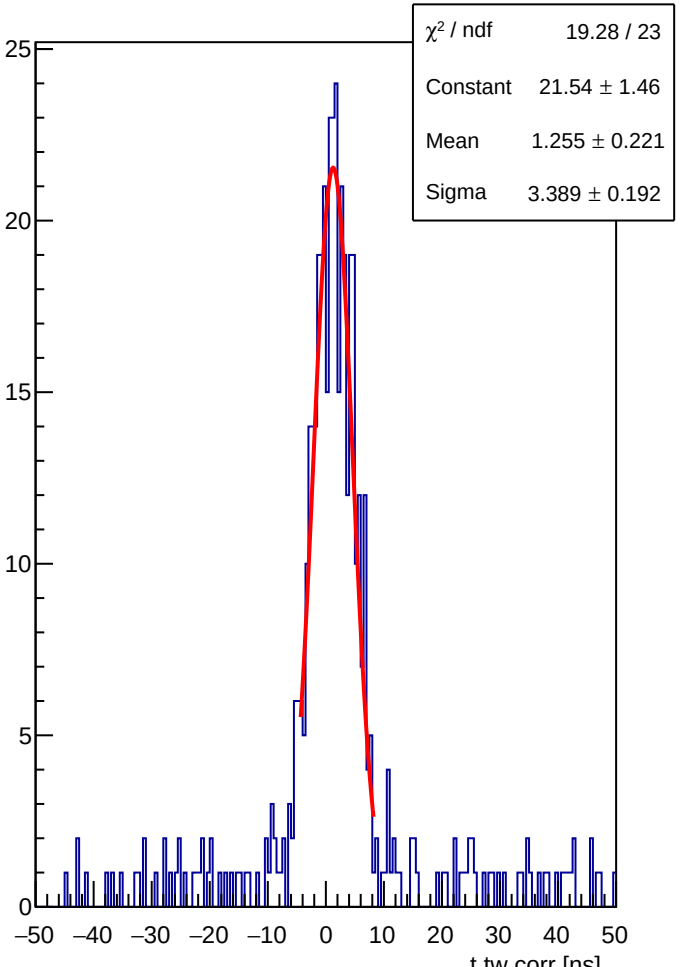

HCAL block 112 : t
χ² / ndf 26.16 / 21
Constant 25.35 ± 1.77
Mean 0.9223 ± 0.2265
Sigma 3.478 ± 0.265
t [ns]

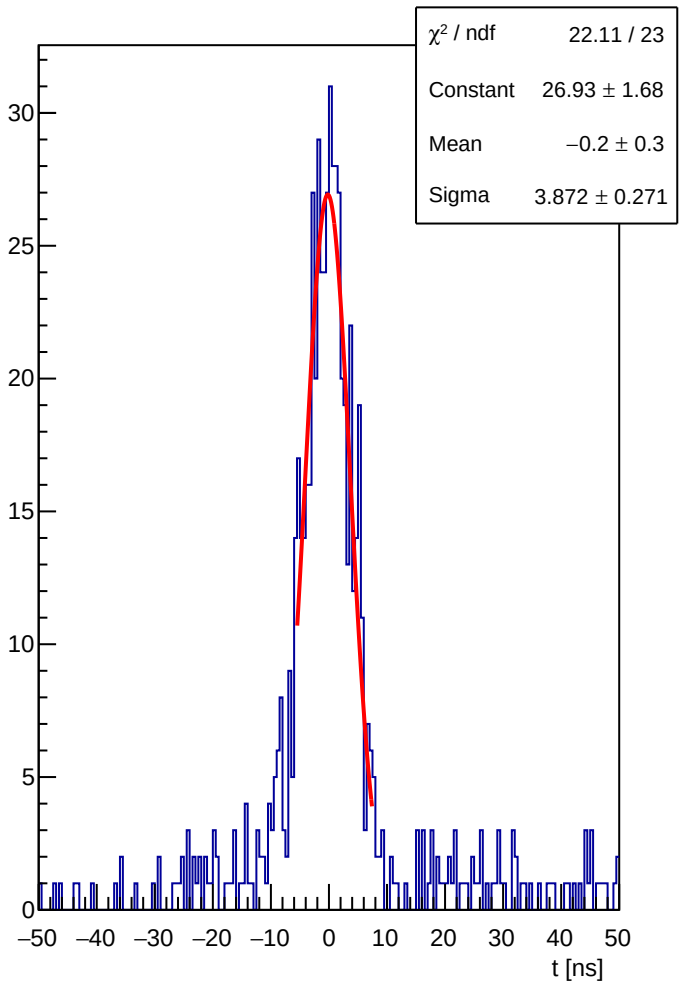

HCAL block 112 : t tw corr
χ² / ndf 27.99 / 21
Constant 25.24 ± 1.73
Mean 1.696 ± 0.234
Sigma 3.663 ± 0.287
t tw corr [ns]

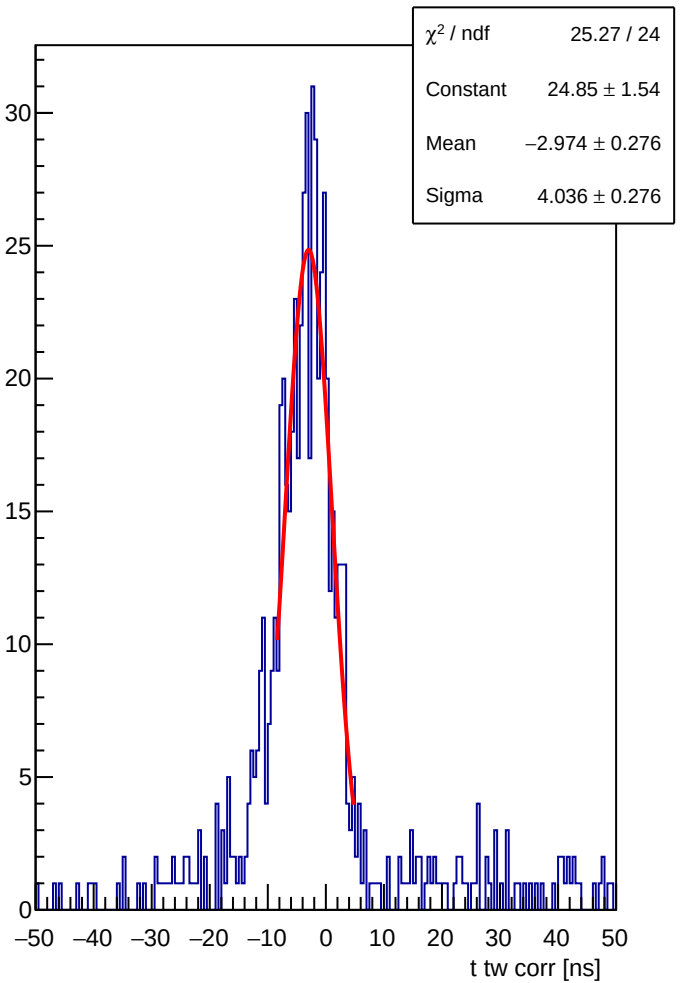

HCAL block 113 : t
χ² / ndf 23.92 / 20
Constant 19.07 ± 1.49
Mean 0.7171 ± 0.3284
Sigma 3.24 ± 0.28
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

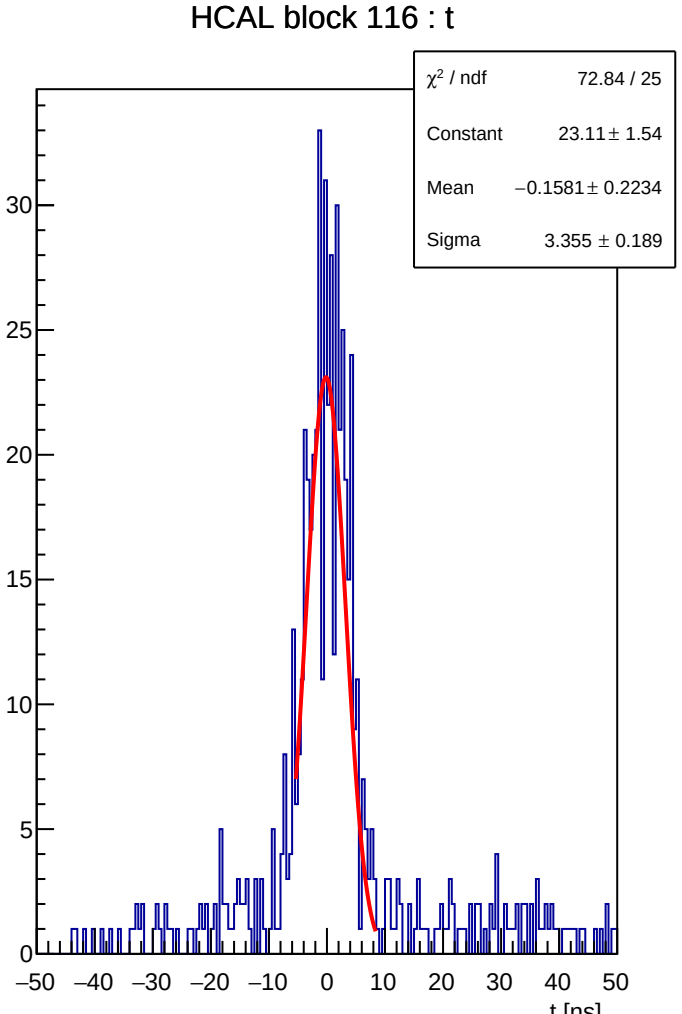

HCAL block 113 : t tw corr
χ² / ndf 19.62 / 20
Constant 19.48 ± 1.48
Mean 0.2709 ± 0.2479
Sigma 3.081 ± 0.216
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

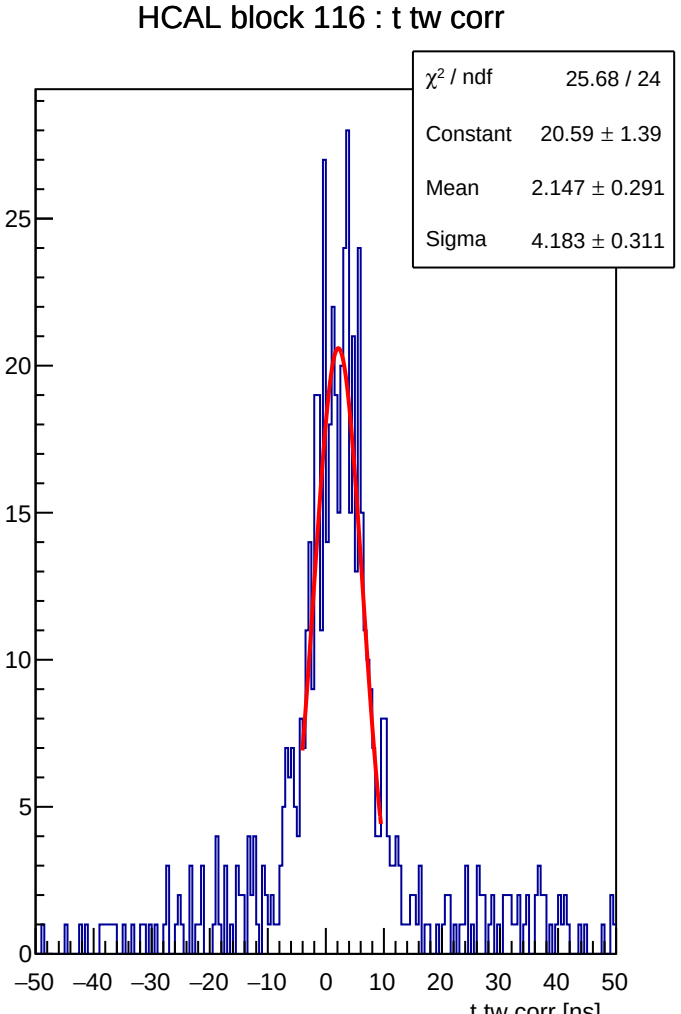

HCAL block 114 : t
χ² / ndf 38.56 / 22
Constant 19.06 ± 1.41
Mean 0.1213 ± 0.2601
Sigma 3.695 ± 0.281
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

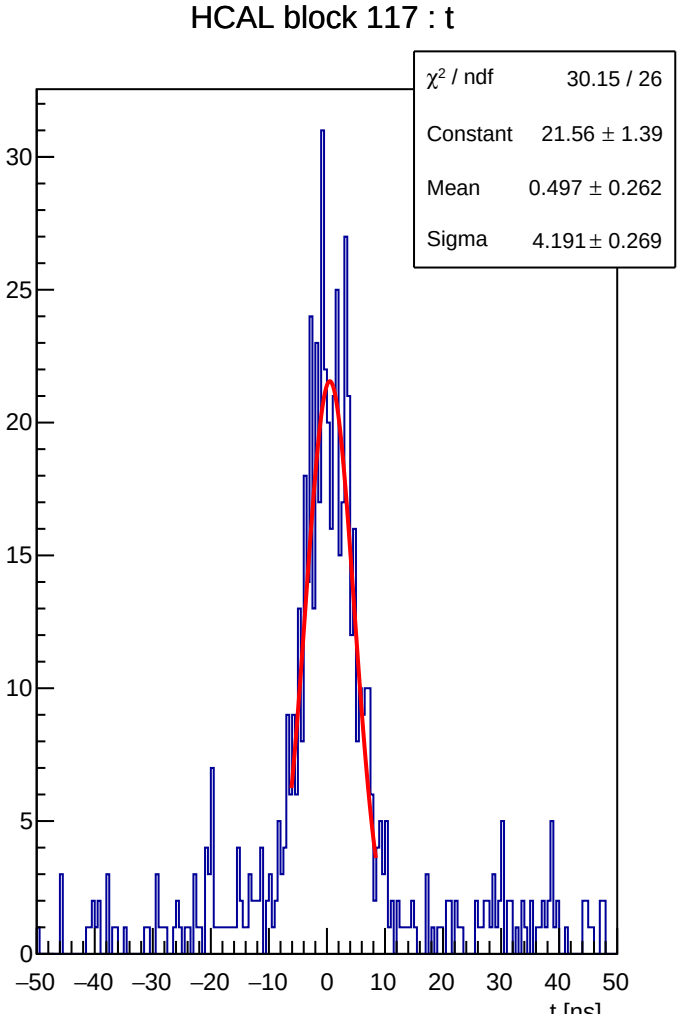

HCAL block 114 : t tw corr
χ² / ndf 19.28 / 23
Constant 21.54 ± 1.46
Mean 1.255 ± 0.221
Sigma 3.389 ± 0.192
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

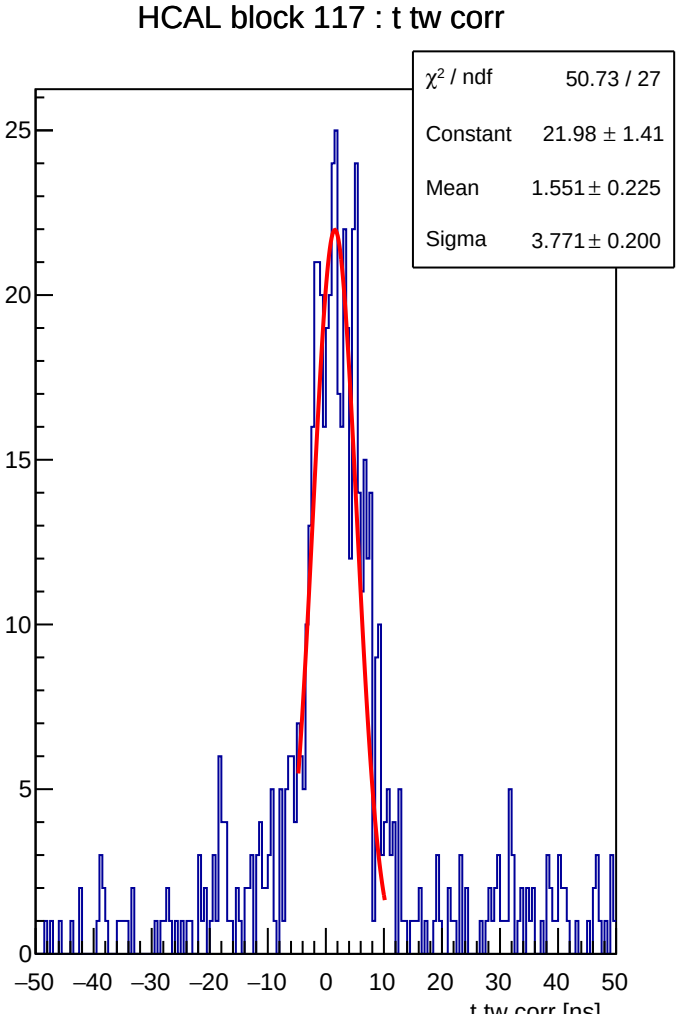

HCAL block 115 : t
χ² / ndf 22.11 / 23
Constant 26.93 ± 1.68
Mean −0.2 ± 0.3
Sigma 3.872 ± 0.271
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

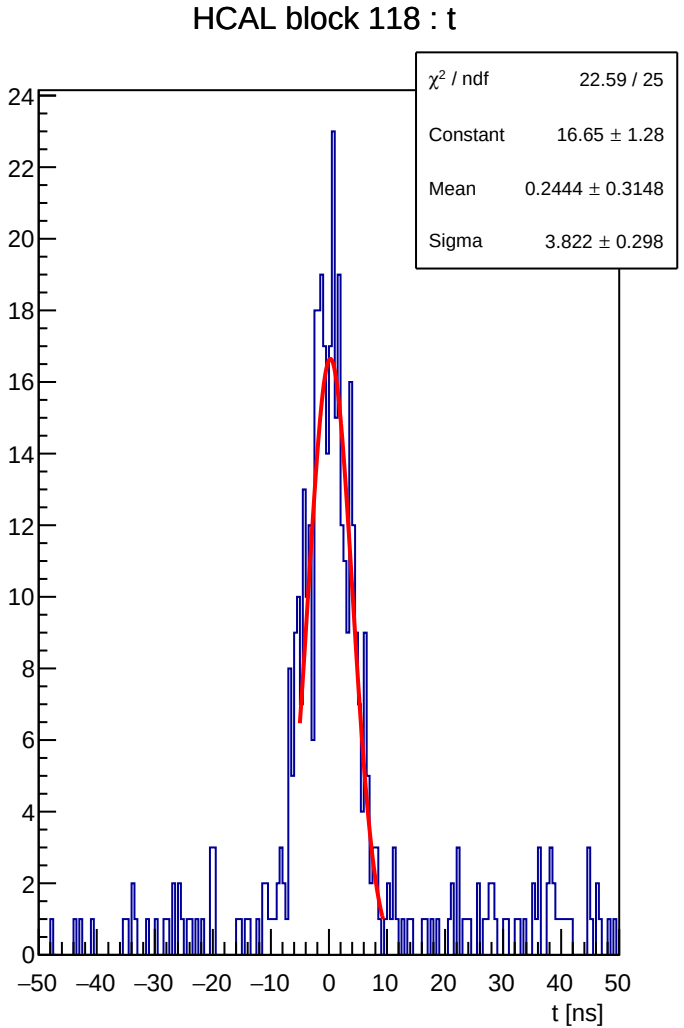

HCAL block 115 : t tw corr
χ² / ndf 25.27 / 24
Constant 24.85 ± 1.54
Mean −2.974 ± 0.276
Sigma 4.036 ± 0.276
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

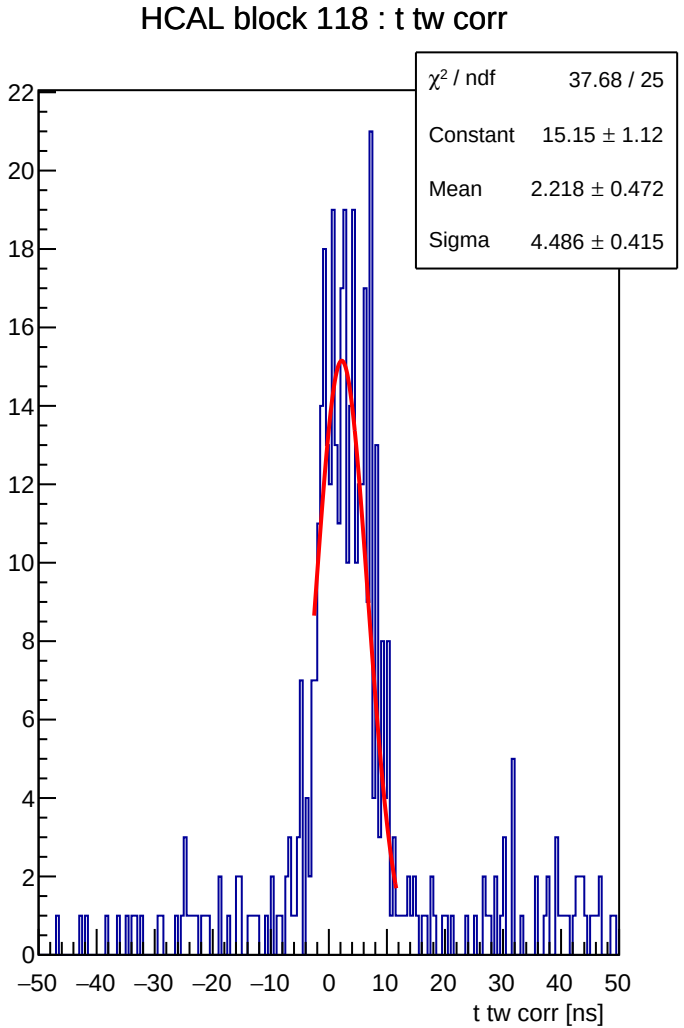

HCAL block 116 : t
χ² / ndf 72.84 / 25
Constant 23.11 ± 1.54
Mean −0.1581 ± 0.2234
Sigma 3.355 ± 0.189
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

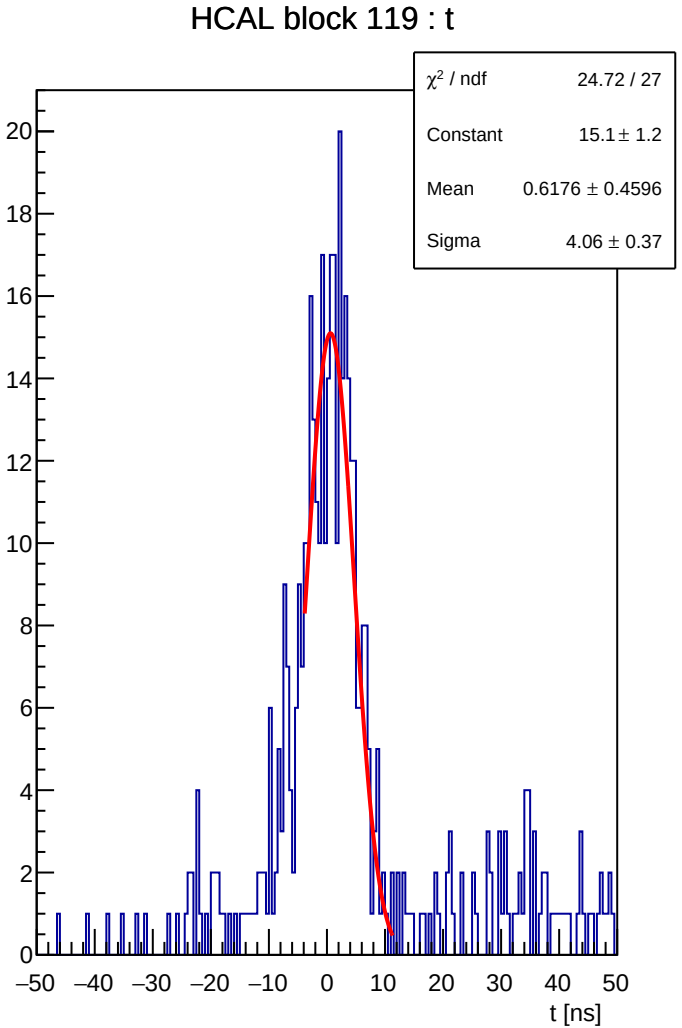

HCAL block 116 : t tw corr
χ² / ndf 25.68 / 24
Constant 20.59 ± 1.39
Mean 2.147 ± 0.291
Sigma 4.183 ± 0.311
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

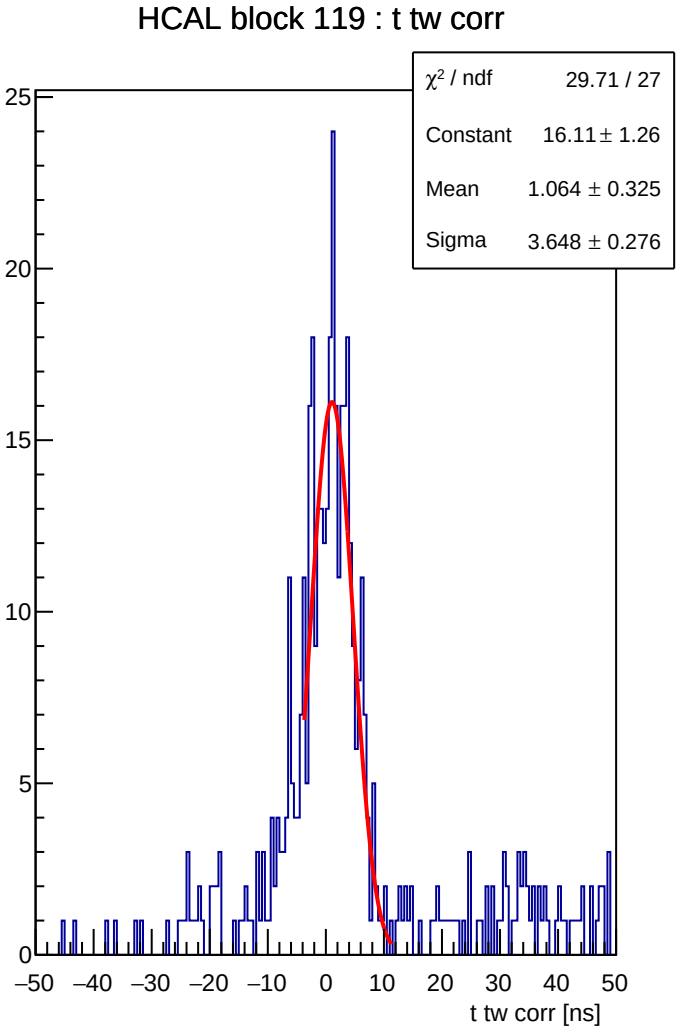

HCAL block 117 : t
χ² / ndf 30.15 / 26
Constant 21.56 ± 1.39
Mean 0.497 ± 0.262
Sigma 4.191 ± 0.269
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

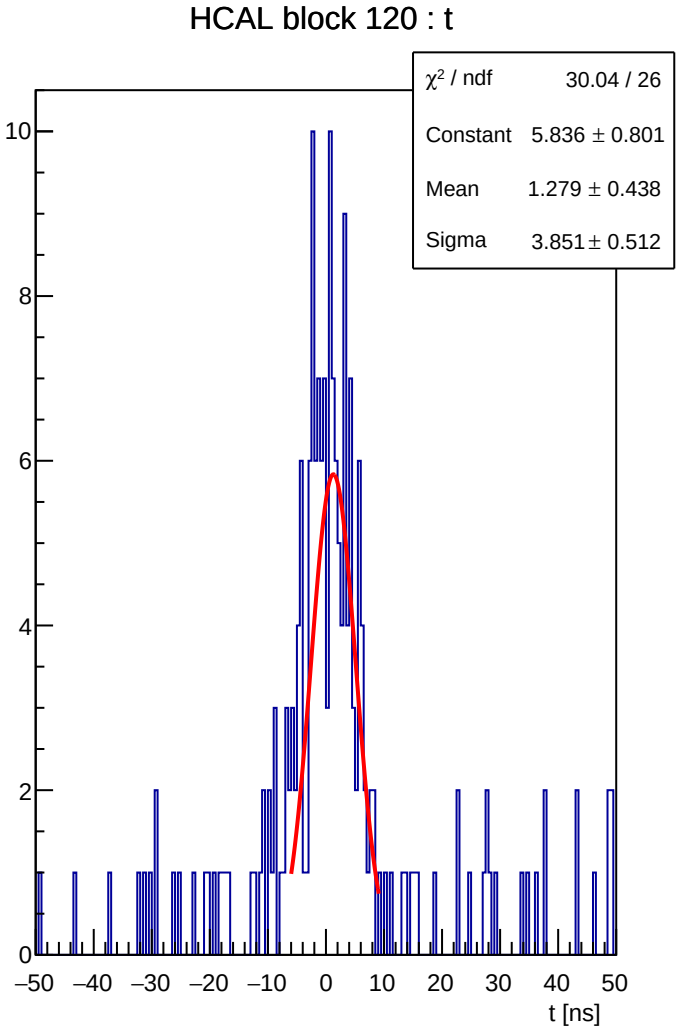

HCAL block 117 : t tw corr
χ² / ndf 50.73 / 27
Constant 21.98 ± 1.41
Mean 1.551 ± 0.225
Sigma 3.771 ± 0.200
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

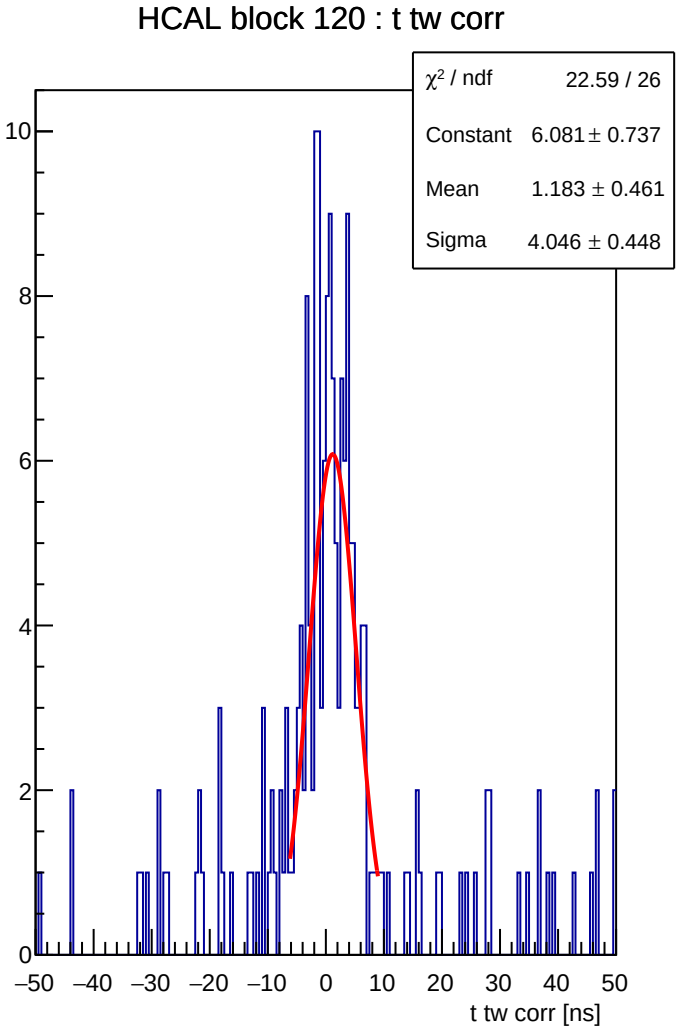

HCAL block 118 : t
χ² / ndf 22.59 / 25
Constant 16.65 ± 1.28
Mean 0.2444 ± 0.3148
Sigma 3.822 ± 0.298
t [ns]

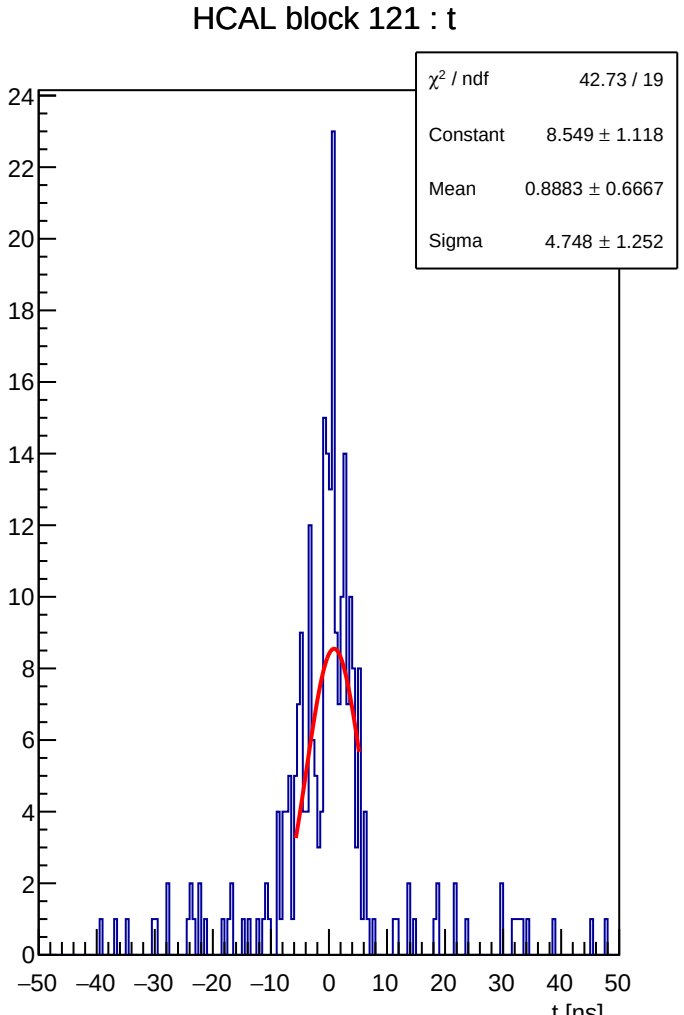

HCAL block 118 : t tw corr
χ² / ndf 37.68 / 25
Constant 15.15 ± 1.12
Mean 2.218 ± 0.472
Sigma 4.486 ± 0.415
t tw corr [ns]

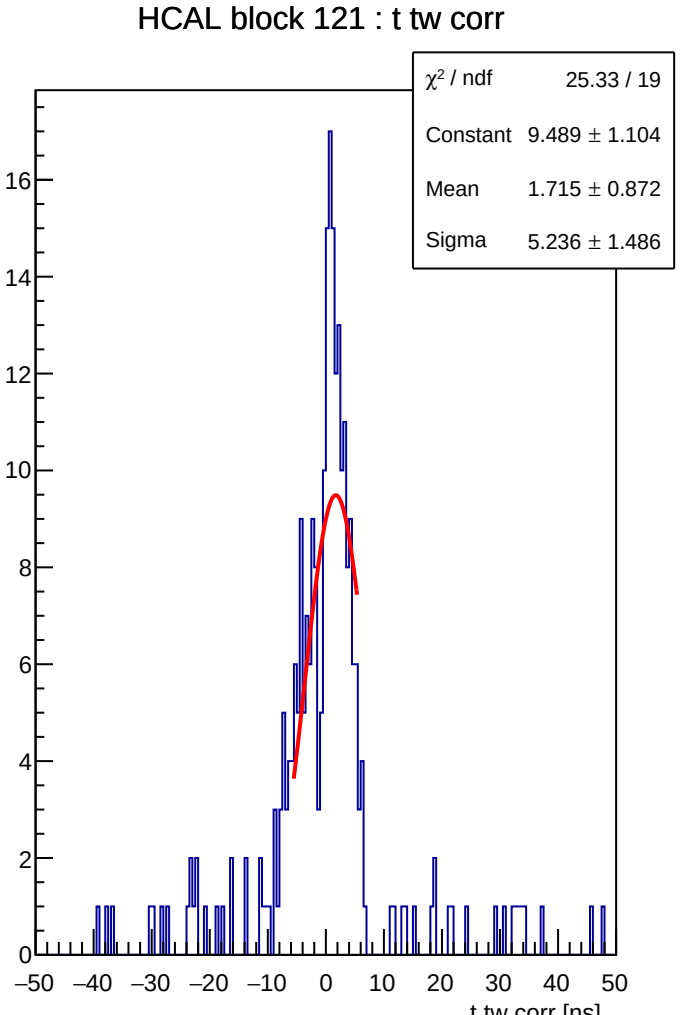

HCAL block 119 : t
χ² / ndf 24.72 / 27
Constant 15.1 ± 1.2
Mean 0.6176 ± 0.4596
Sigma 4.06 ± 0.37
t [ns]

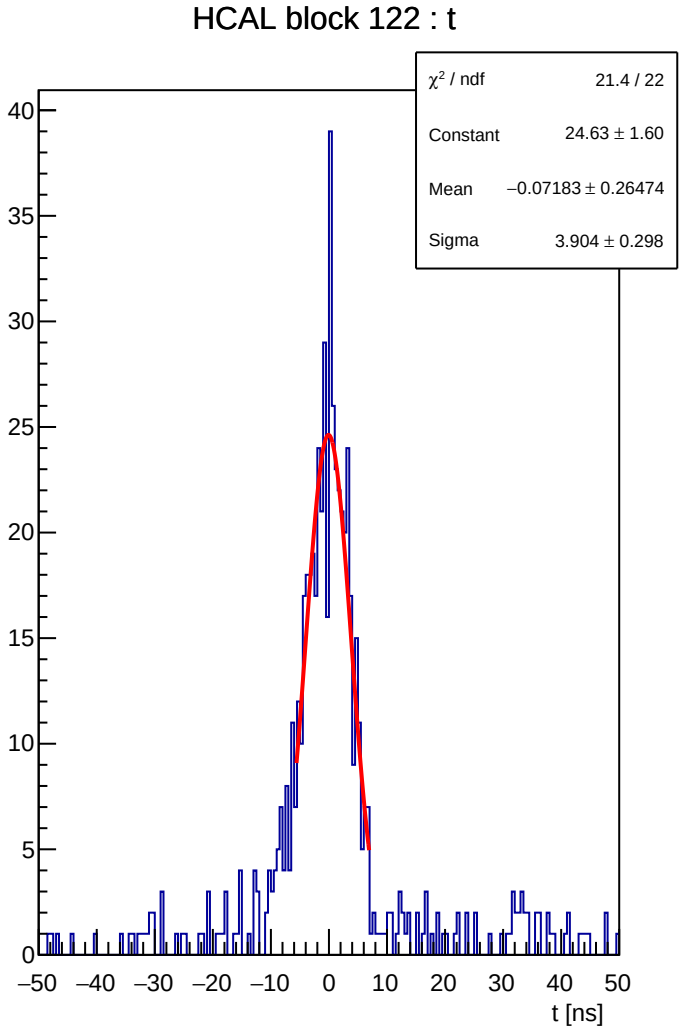

HCAL block 119 : t tw corr
χ² / ndf 29.71 / 27
Constant 16.11 ± 1.26
Mean 1.064 ± 0.325
Sigma 3.648 ± 0.276
t tw corr [ns]

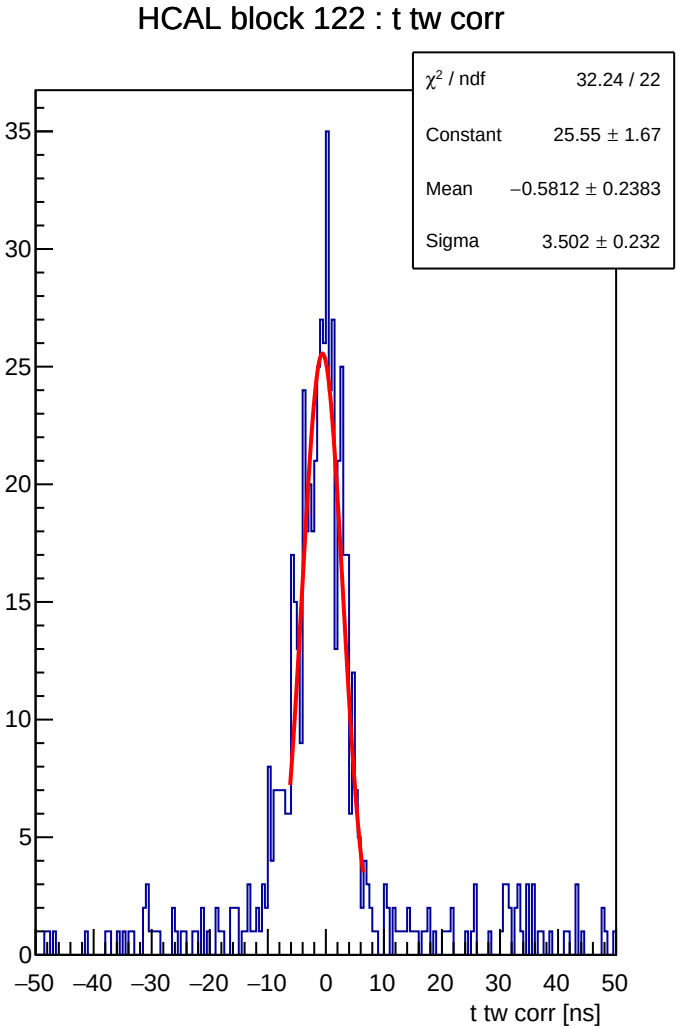

HCAL block 120 : t
χ² / ndf 30.04 / 26
Constant 5.836 ± 0.801
Mean 1.279 ± 0.438
Sigma 3.851 ± 0.512
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

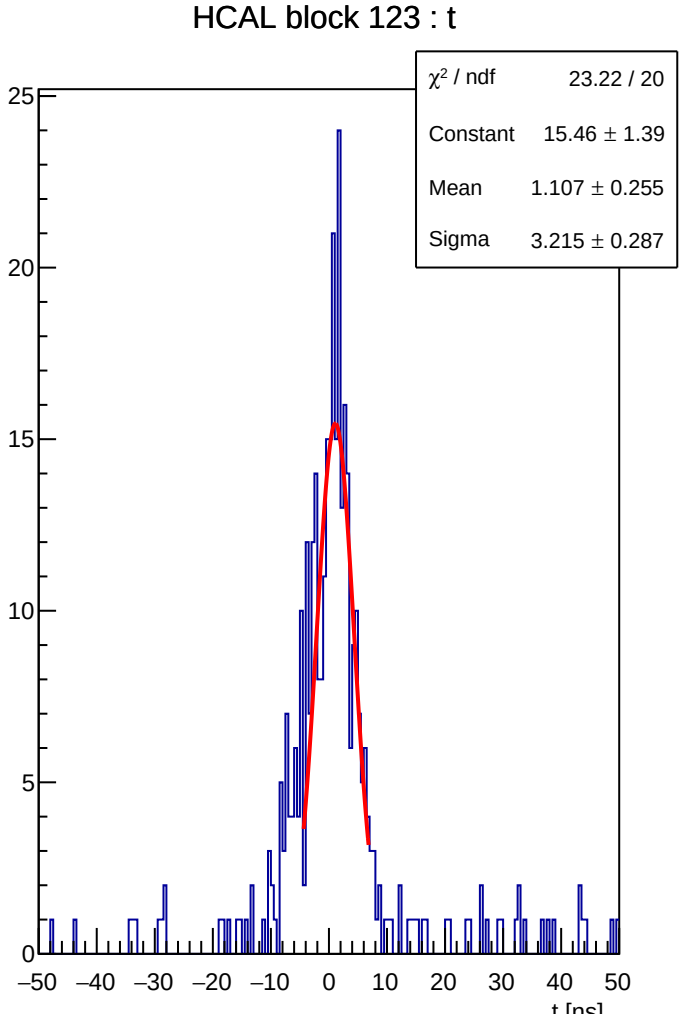

HCAL block 120 : t tw corr
χ² / ndf 22.59 / 26
Constant 6.081 ± 0.737
Mean 1.183 ± 0.461
Sigma 4.046 ± 0.448
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

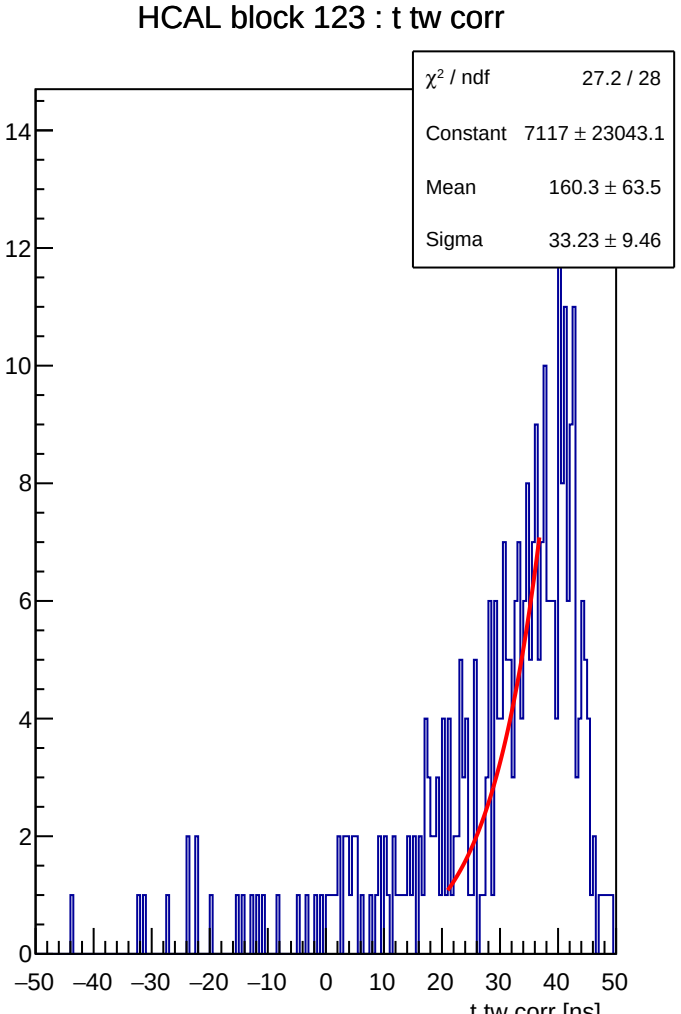

HCAL block 121 : t
χ² / ndf 42.73 / 19
Constant 8.549 ± 1.118
Mean 0.8883 ± 0.6667
Sigma 4.748 ± 1.252
t [ns]

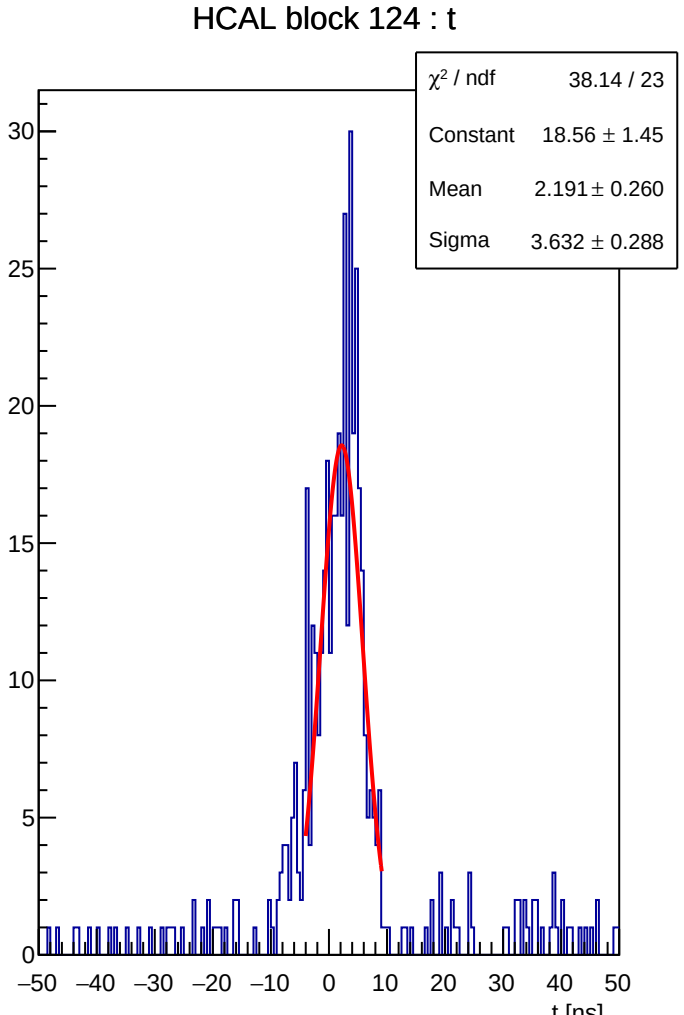

HCAL block 121 : t tw corr
χ² / ndf 25.33 / 19
Constant 9.489 ± 1.104
Mean 1.715 ± 0.872
Sigma 5.236 ± 1.486
t tw corr [ns]

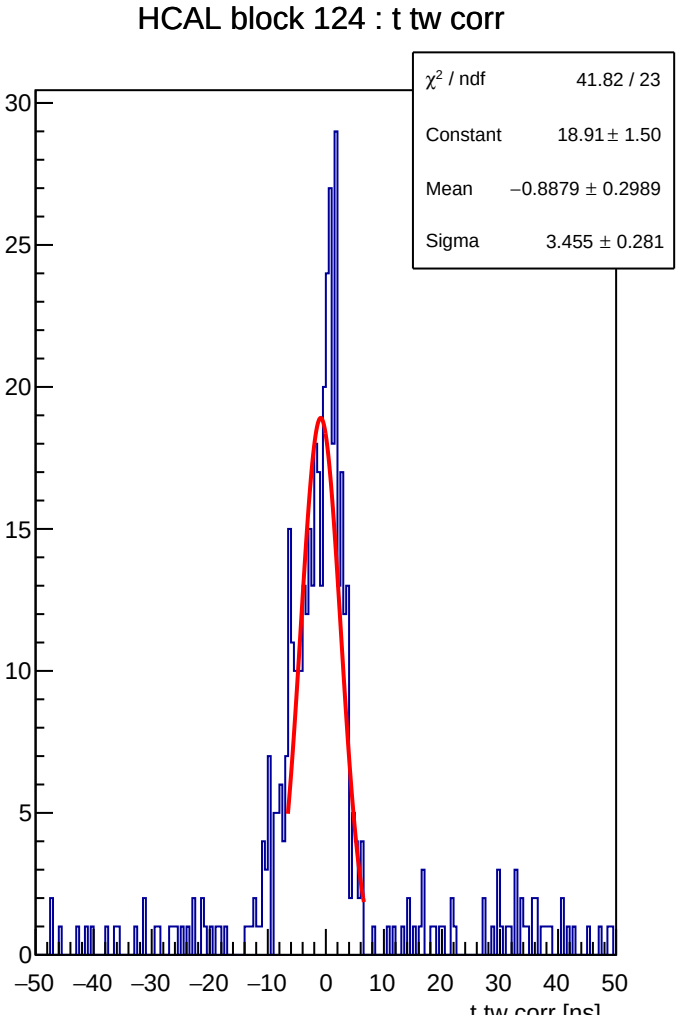

HCAL block 122 : t
χ² / ndf 21.4 / 22
Constant 24.63 ± 1.60
Mean −0.07183 ± 0.26474
Sigma 3.904 ± 0.298
t [ns]

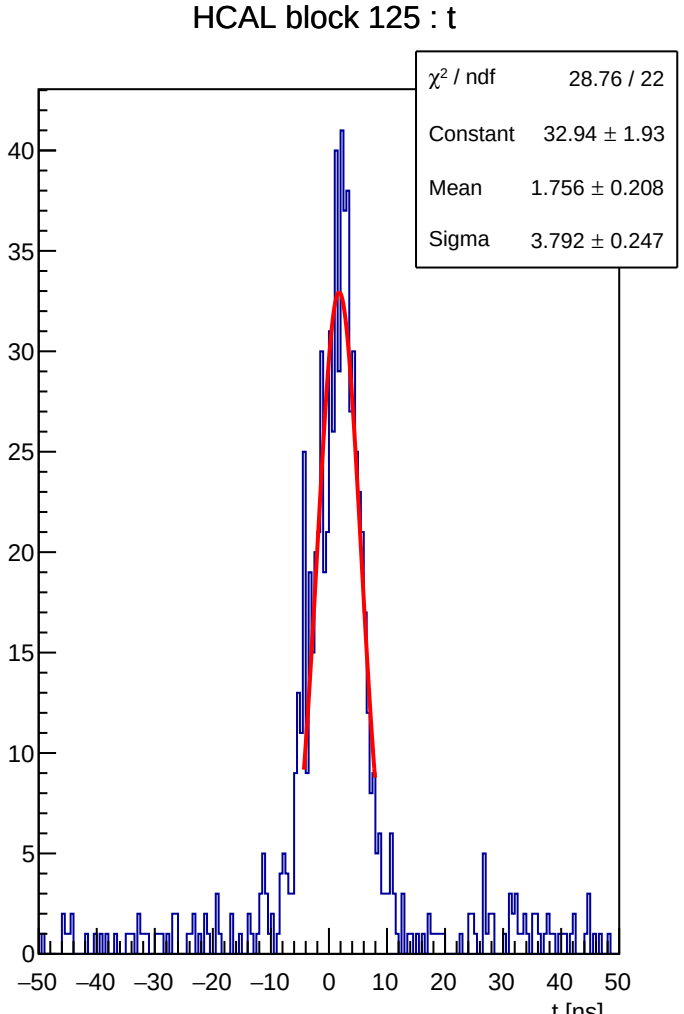

HCAL block 122 : t tw corr
χ² / ndf 32.24 / 22
Constant 25.55 ± 1.67
Mean −0.5812 ± 0.2383
Sigma 3.502 ± 0.232
t tw corr [ns]

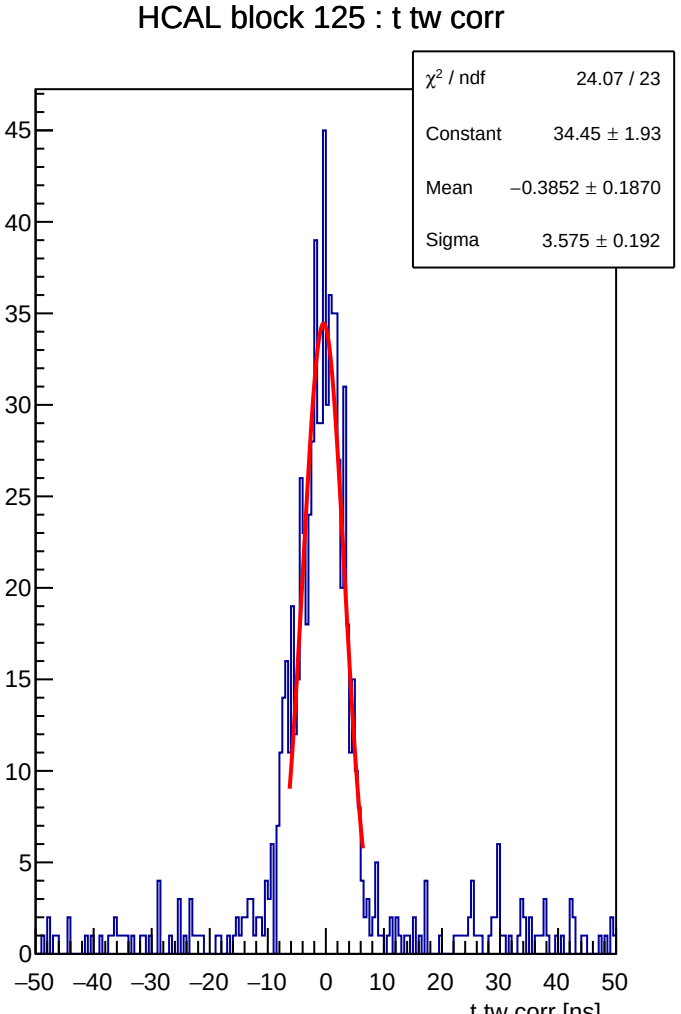

HCAL block 123 : t
χ² / ndf 23.22 / 20
Constant 15.46 ± 1.39
Mean 1.107 ± 0.255
Sigma 3.215 ± 0.287
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

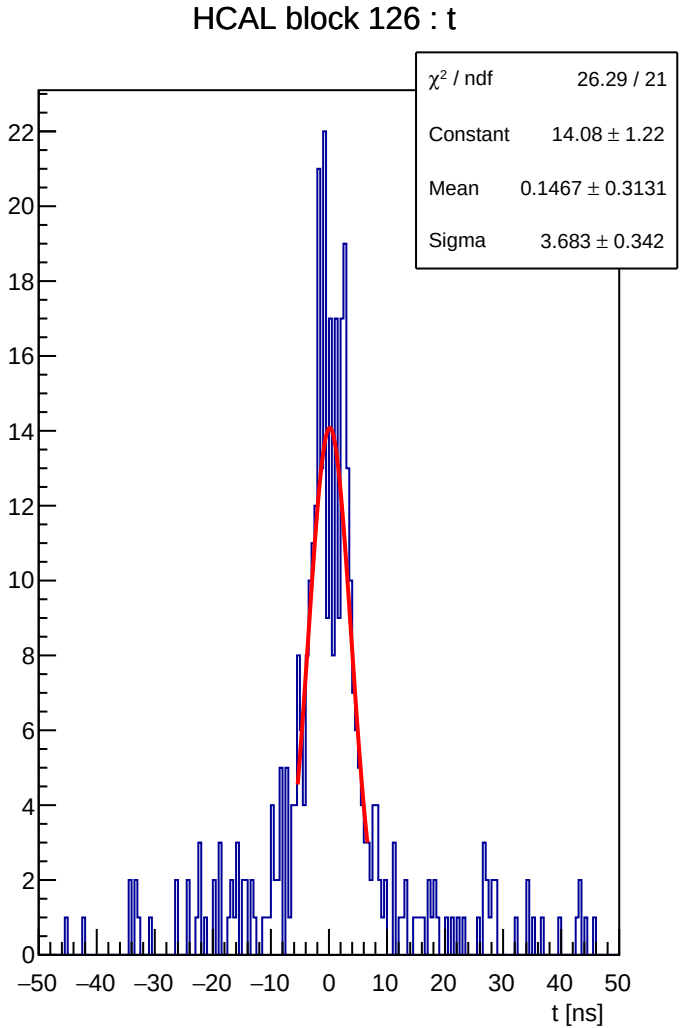

HCAL block 123 : t tw corr
χ² / ndf 27.2 / 28
Constant 7117 ± 23043.1
Mean 160.3 ± 63.5
Sigma 33.23 ± 9.46
14
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

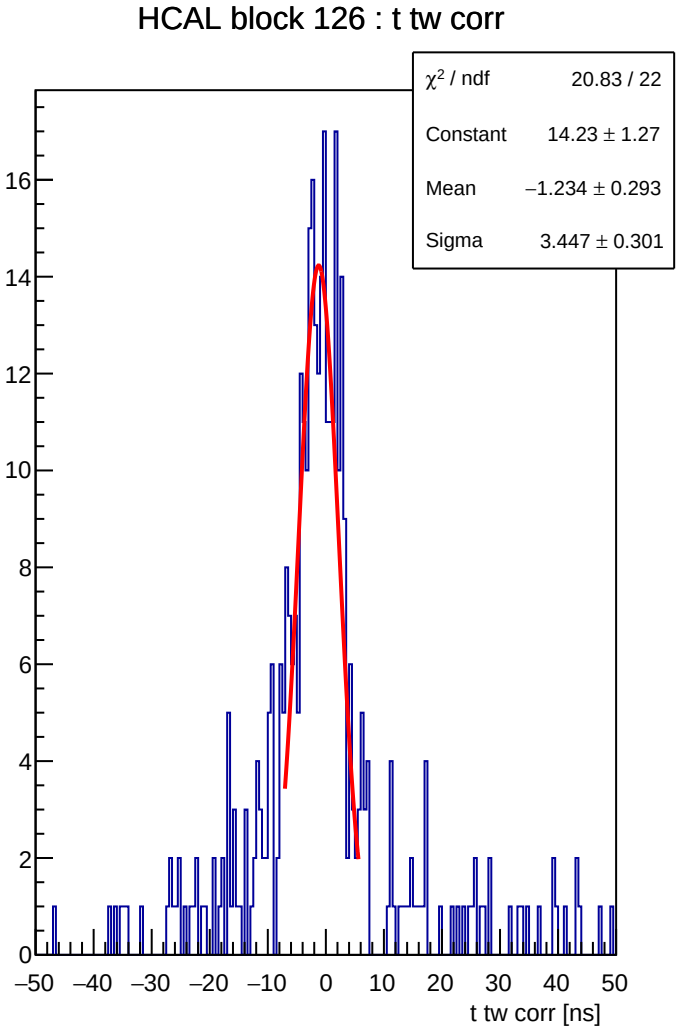

HCAL block 124 : t
χ² / ndf 38.14 / 23
Constant 18.56 ± 1.45
Mean 2.191 ± 0.260
Sigma 3.632 ± 0.288
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

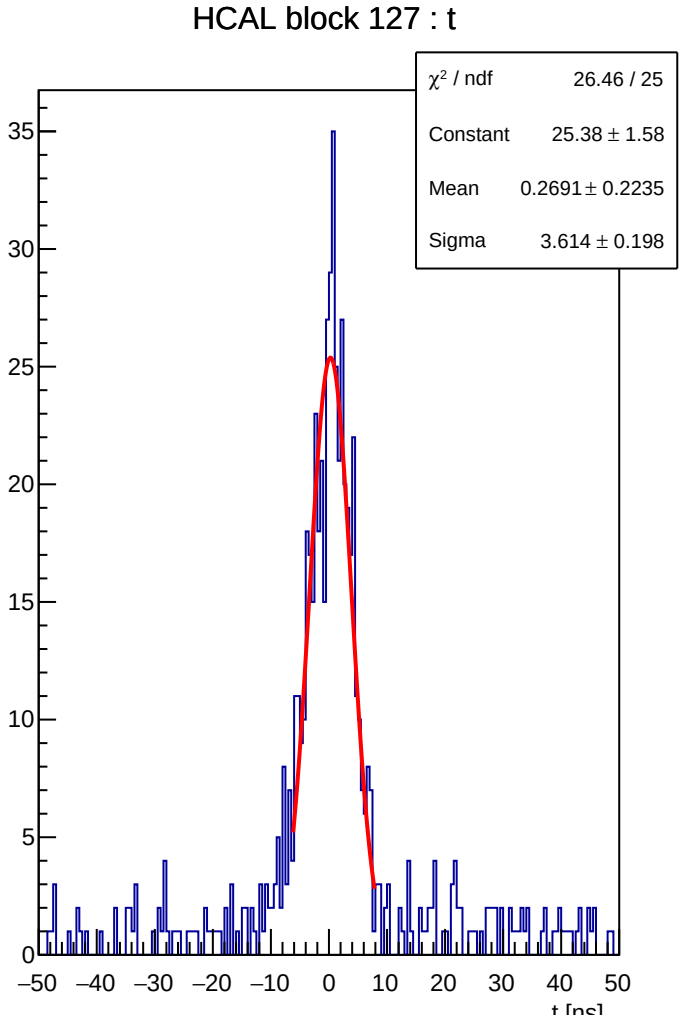

HCAL block 124 : t tw corr
χ² / ndf 41.82 / 23
Constant 18.91 ± 1.50
Mean −0.8879 ± 0.2989
Sigma 3.455 ± 0.281
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

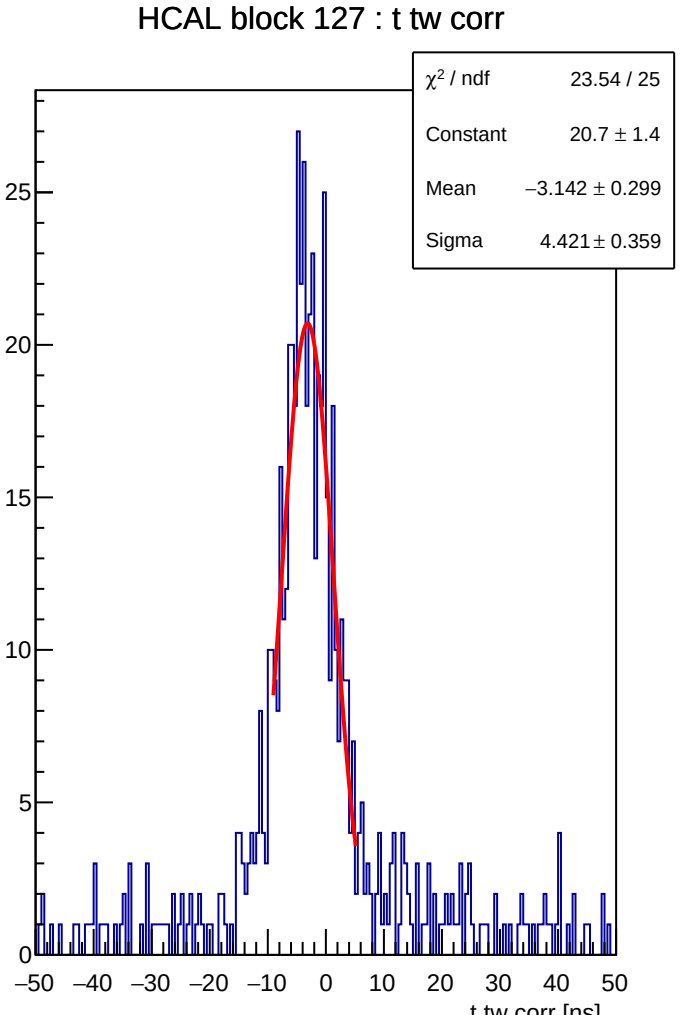

HCAL block 125 : t
χ² / ndf 28.76 / 22
Constant 32.94 ± 1.93
Mean 1.756 ± 0.208
Sigma 3.792 ± 0.247
t [ns]

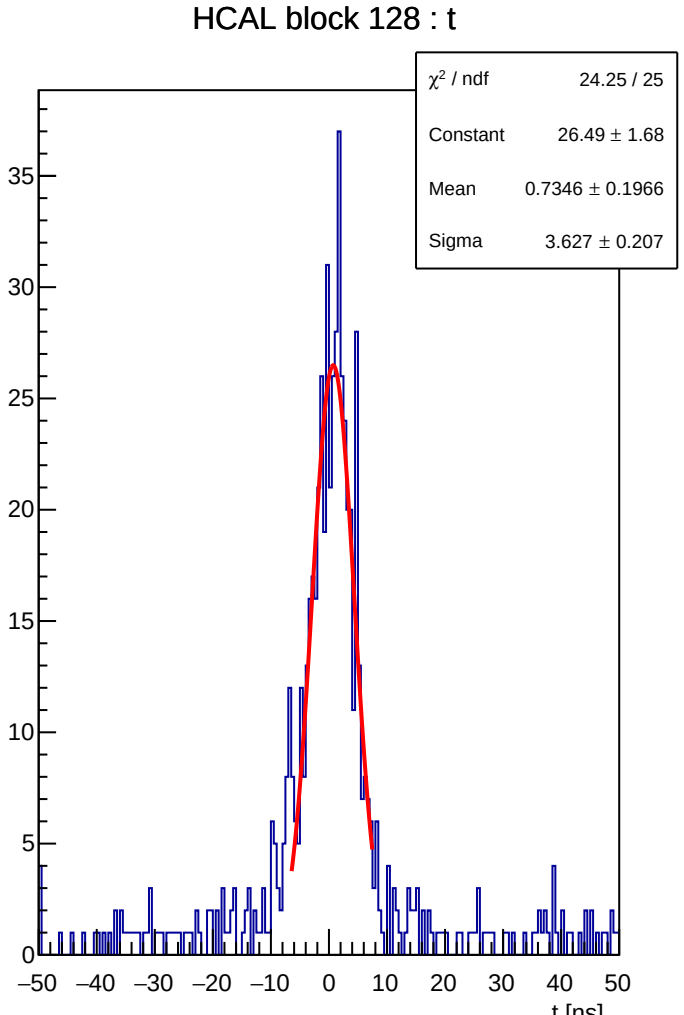

HCAL block 125 : t tw corr
χ² / ndf 24.07 / 23
Constant 34.45 ± 1.93
Mean −0.3852 ± 0.1870
Sigma 3.575 ± 0.192
t tw corr [ns]

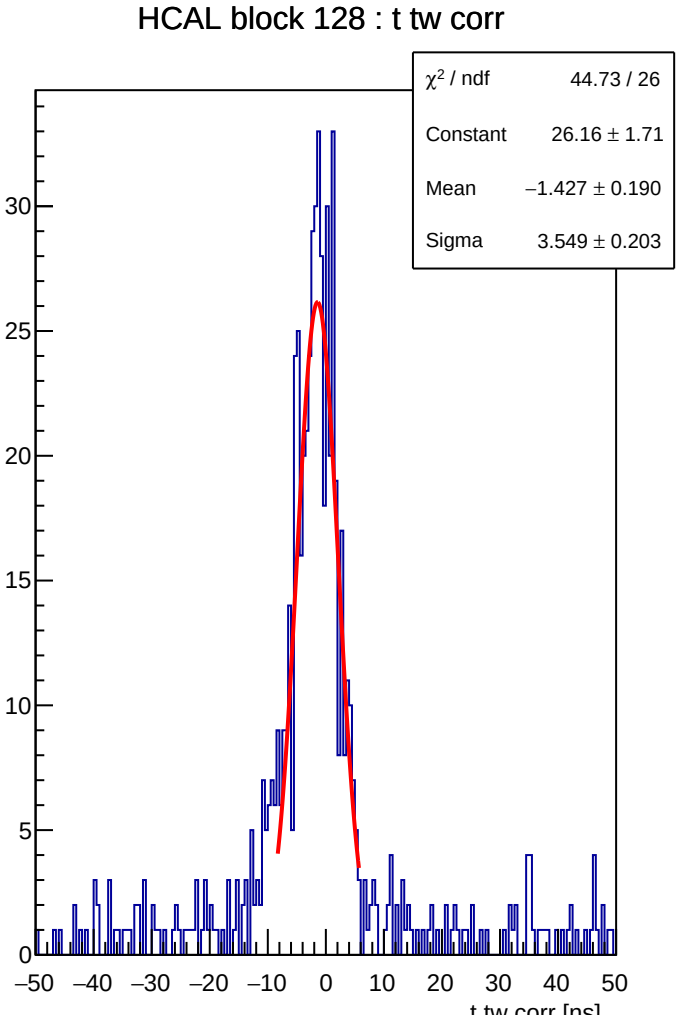

HCAL block 126 : t
χ² / ndf 26.29 / 21
Constant 14.08 ± 1.22
Mean 0.1467 ± 0.3131
Sigma 3.683 ± 0.342
t [ns]

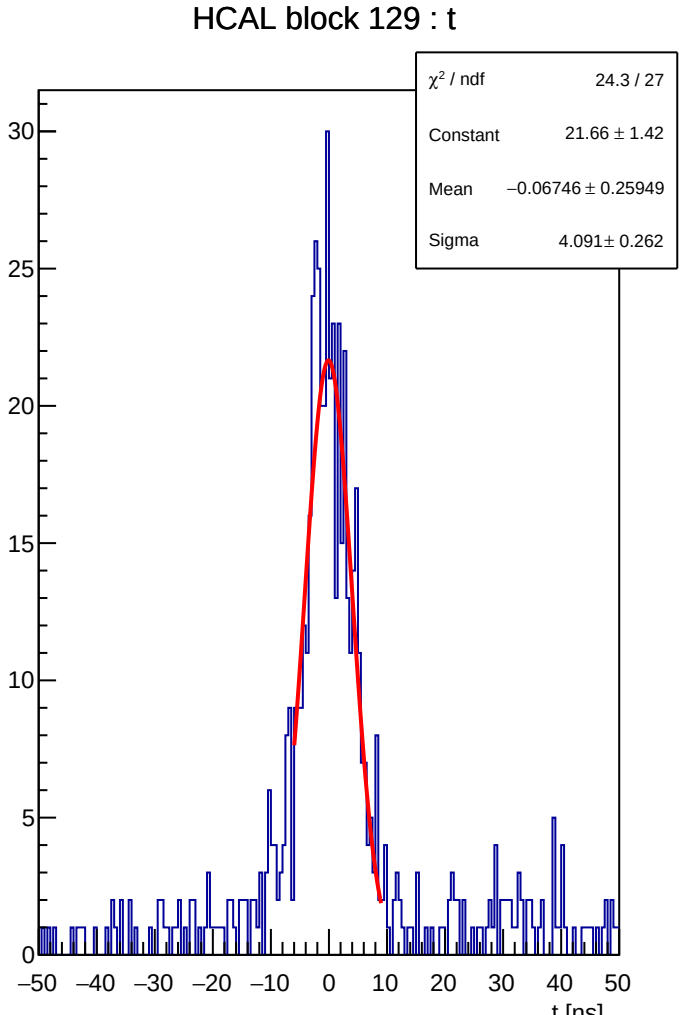

HCAL block 126 : t tw corr
χ² / ndf 20.83 / 22
Constant 14.23 ± 1.27
Mean −1.234 ± 0.293
Sigma 3.447 ± 0.301
t tw corr [ns]

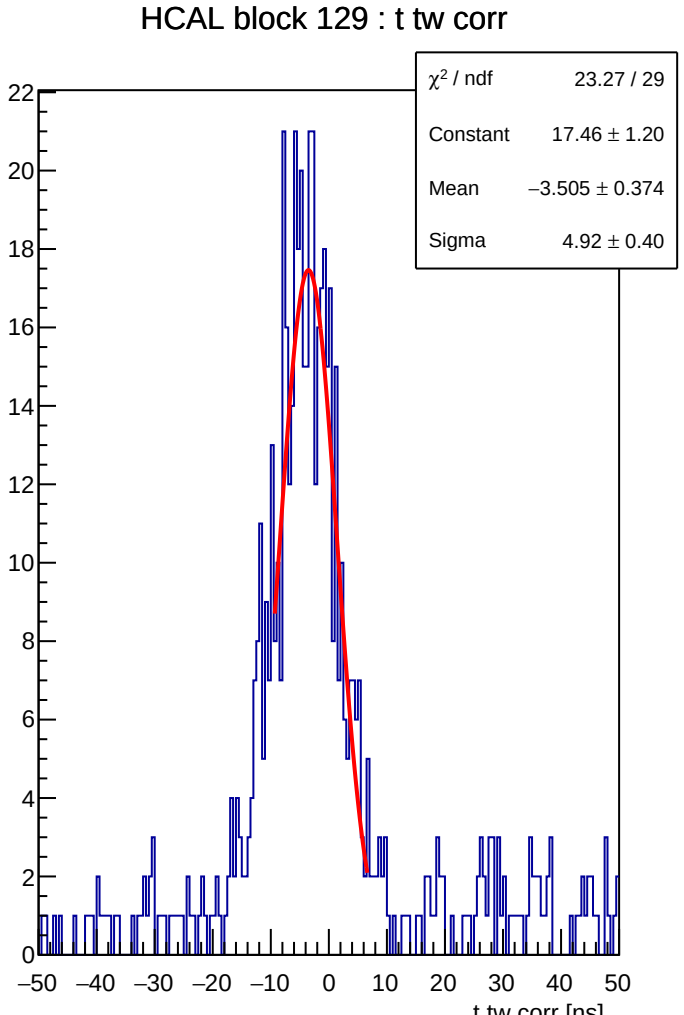

HCAL block 127 : t
χ² / ndf 26.46 / 25
Constant 25.38 ± 1.58
Mean 0.2691 ± 0.2235
Sigma 3.614 ± 0.198
35
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

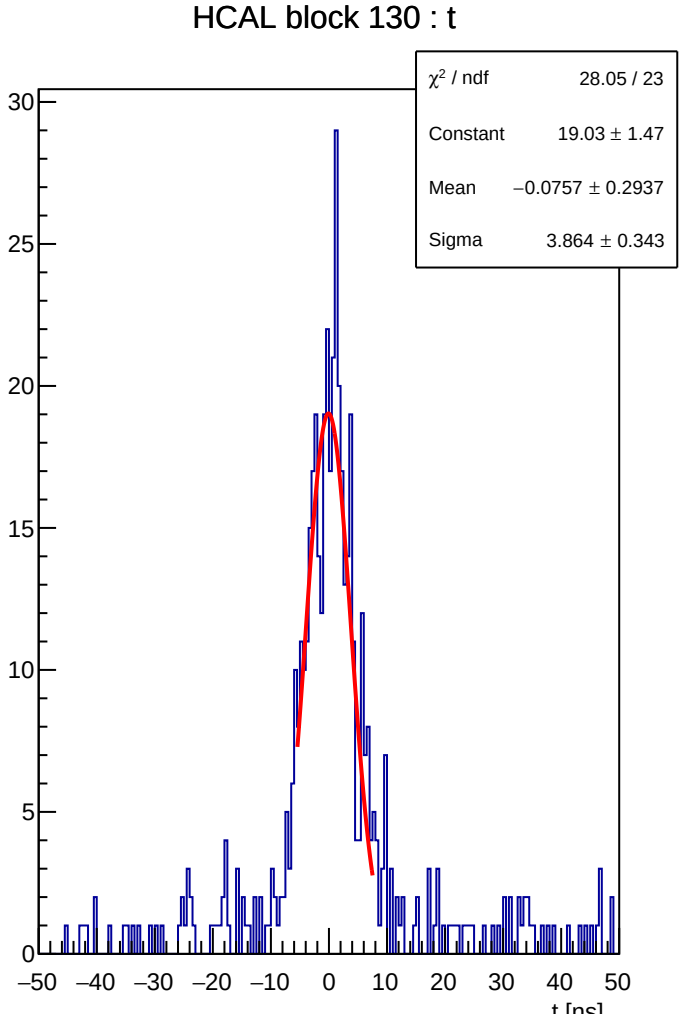

HCAL block 127 : t tw corr
χ² / ndf 23.54 / 25
Constant 20.7 ± 1.4
Mean –3.142 ± 0.299
Sigma 4.421 ± 0.359
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

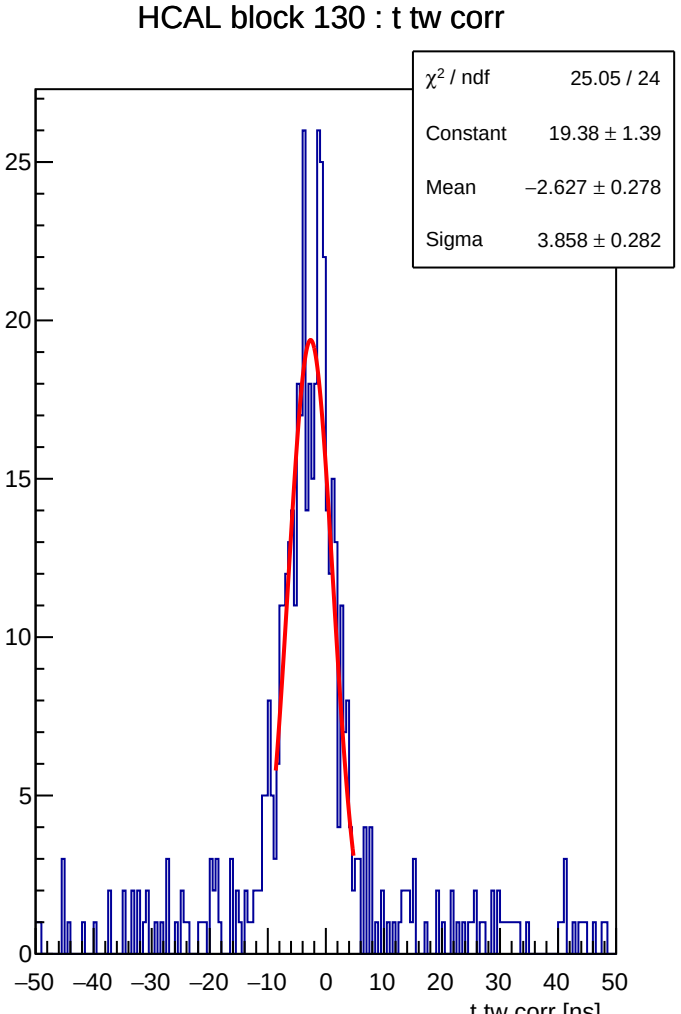

HCAL block 128 : t
χ² / ndf 24.25 / 25
Constant 26.49 ± 1.68
Mean 0.7346 ± 0.1966
Sigma 3.627 ± 0.207
t [ns]

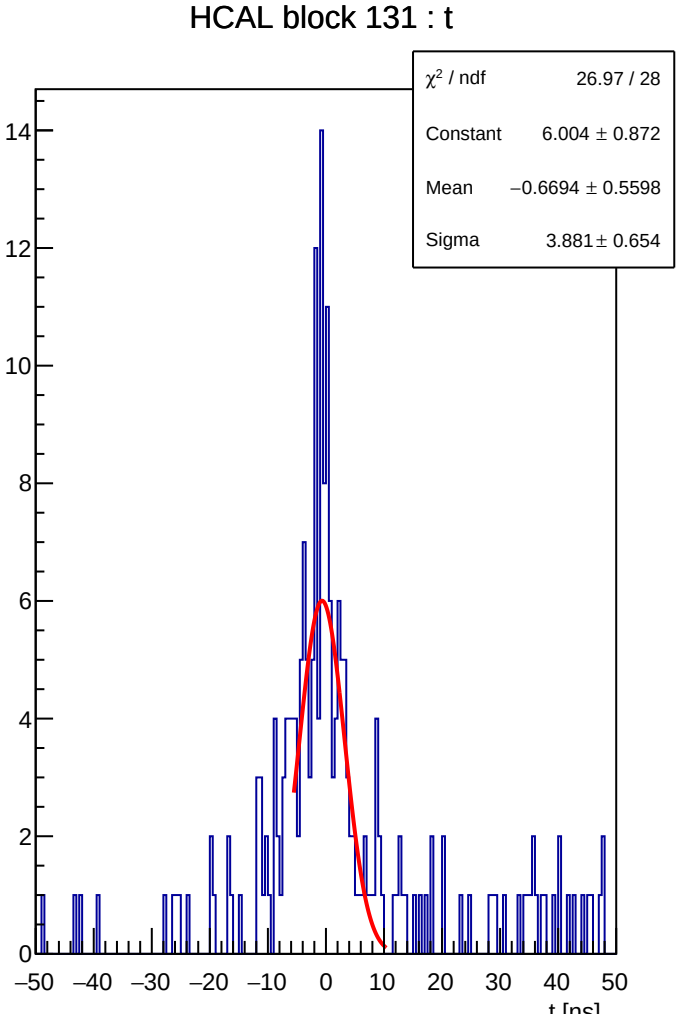

HCAL block 128 : t tw corr
χ² / ndf 44.73 / 26
Constant 26.16 ± 1.71
Mean −1.427 ± 0.190
Sigma 3.549 ± 0.203
t tw corr [ns]

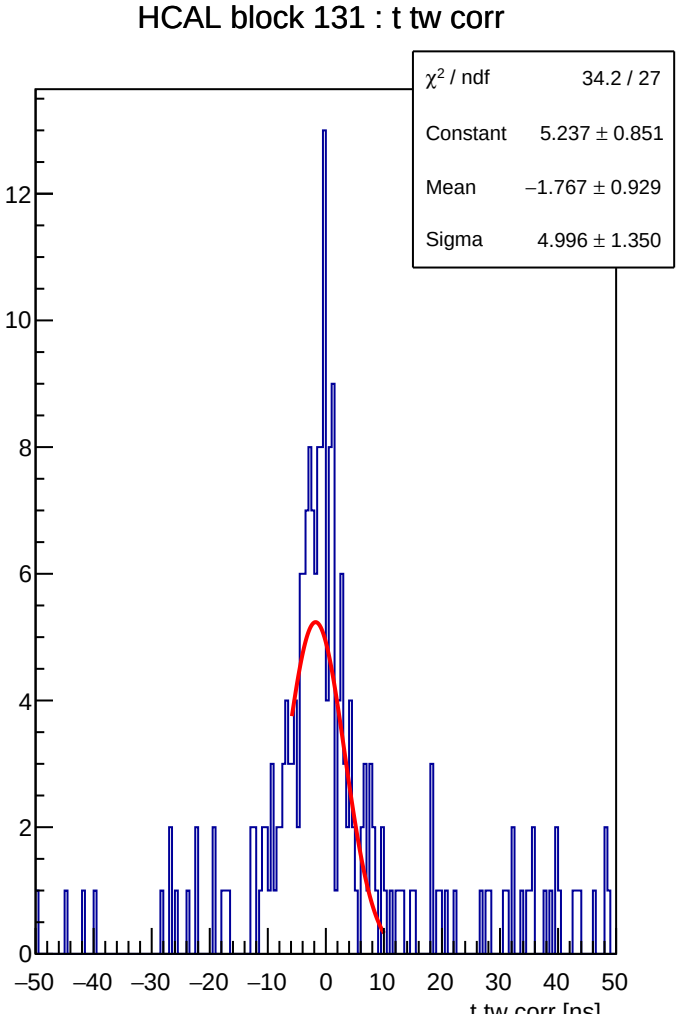

HCAL block 129 : t
χ² / ndf 24.3 / 27
Constant 21.66 ± 1.42
Mean −0.06746 ± 0.25949
Sigma 4.091± 0.262
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

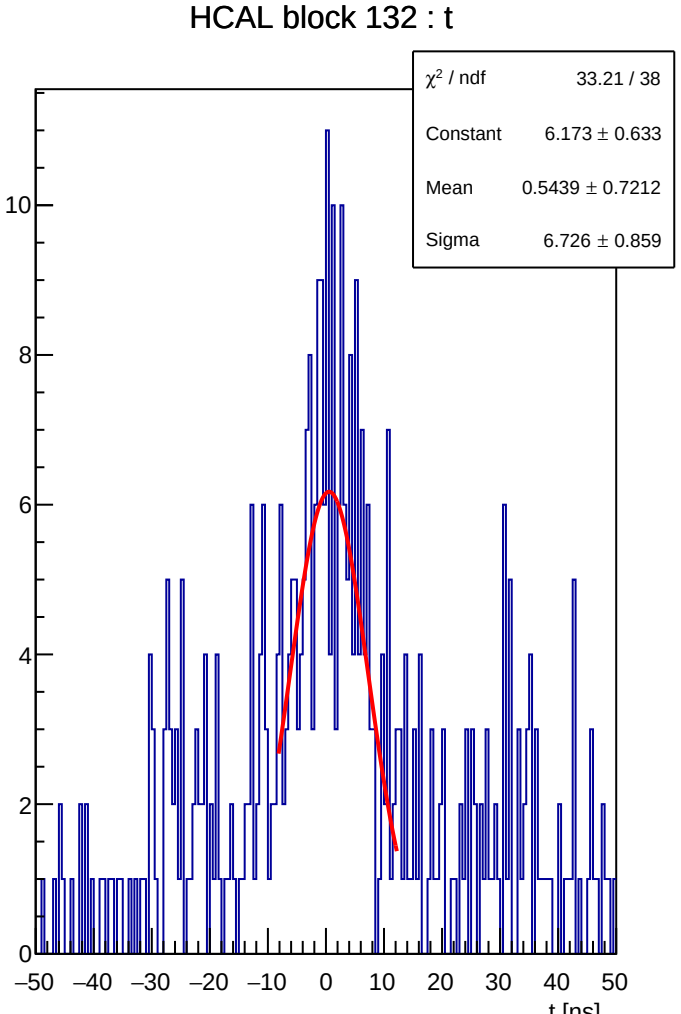

HCAL block 129 : t tw corr
χ² / ndf 23.27 / 29
Constant 17.46 ± 1.20
Mean −3.505 ± 0.374
Sigma 4.92 ± 0.40
22
20
18
16
14
12
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

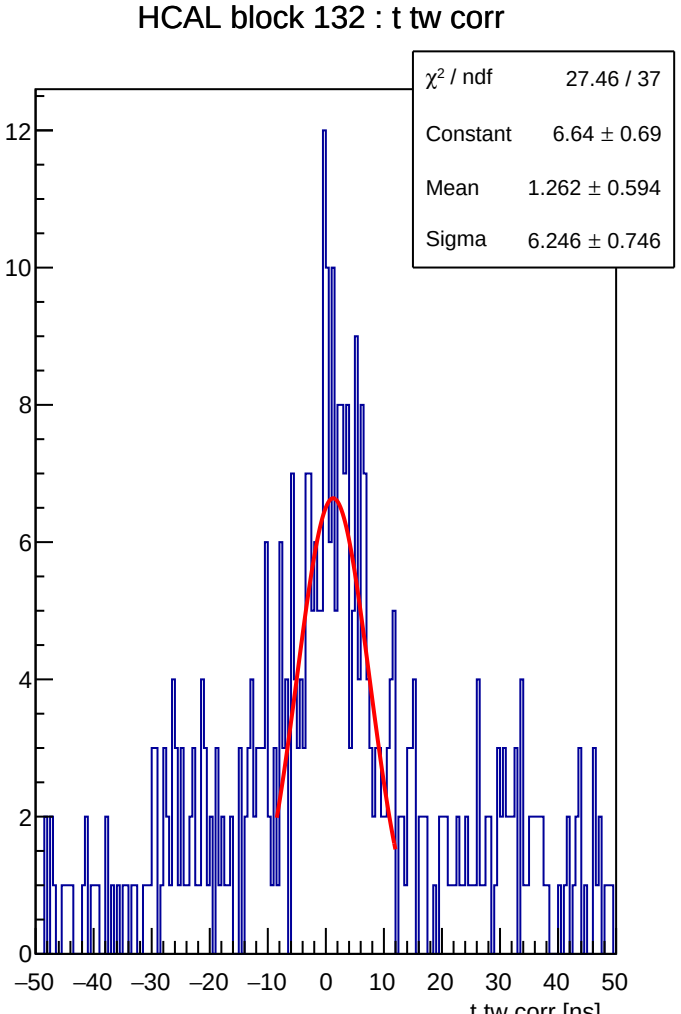

HCAL block 130 : t
χ² / ndf 28.05 / 23
Constant 19.03 ± 1.47
Mean −0.0757 ± 0.2937
Sigma 3.864 ± 0.343
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

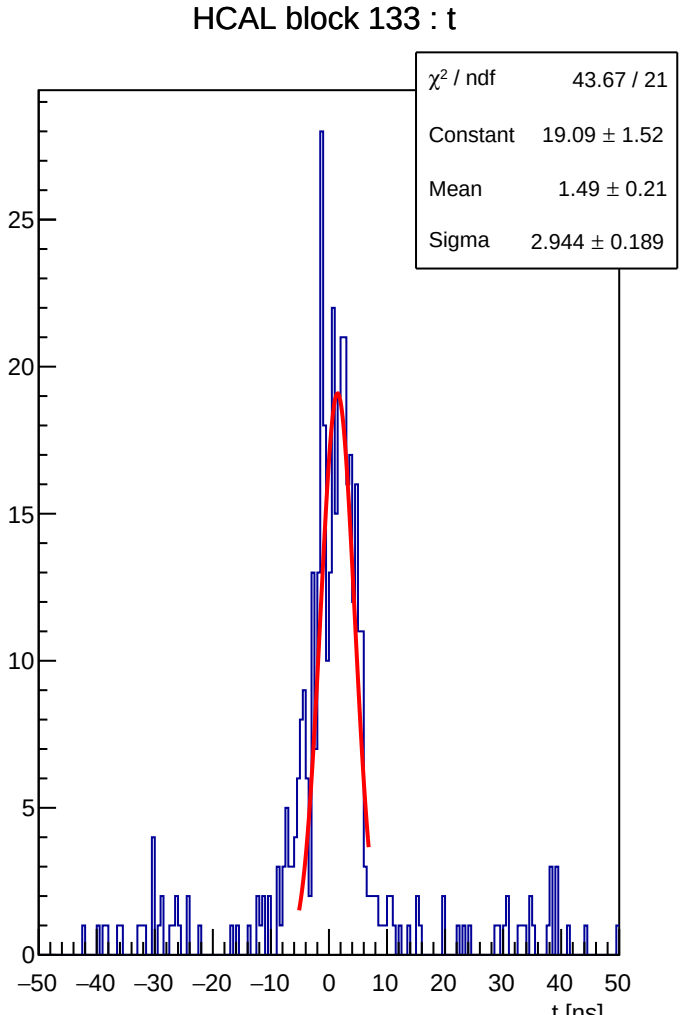

HCAL block 130 : t tw corr
χ² / ndf 25.05 / 24
Constant 19.38 ± 1.39
Mean −2.627 ± 0.278
Sigma 3.858 ± 0.282
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

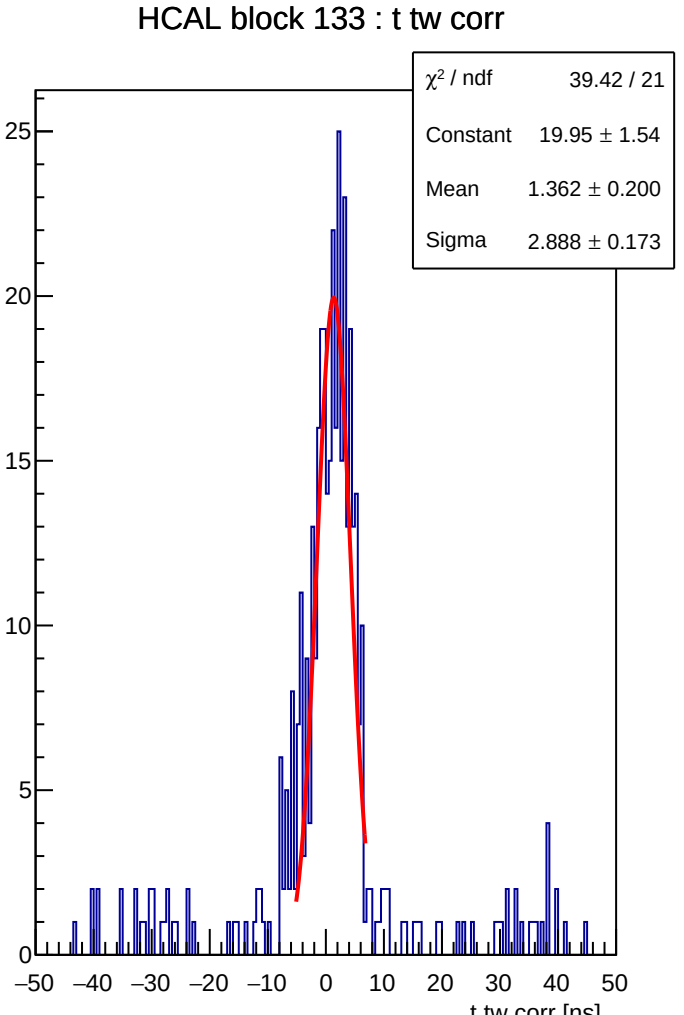

HCAL block 131 : t
χ² / ndf 26.97 / 28
Constant 6.004 ± 0.872
Mean −0.6694 ± 0.5598
Sigma 3.881 ± 0.654
t [ns]

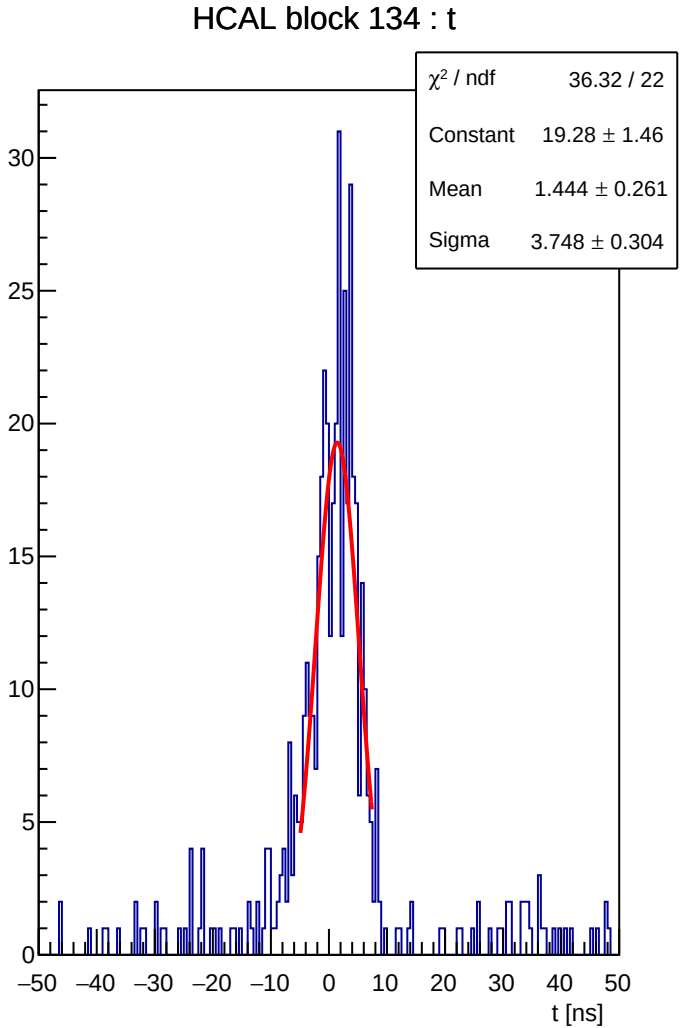

HCAL block 131 : t tw corr
χ² / ndf 34.2 / 27
Constant 5.237 ± 0.851
Mean −1.767 ± 0.929
Sigma 4.996 ± 1.350
t tw corr [ns]

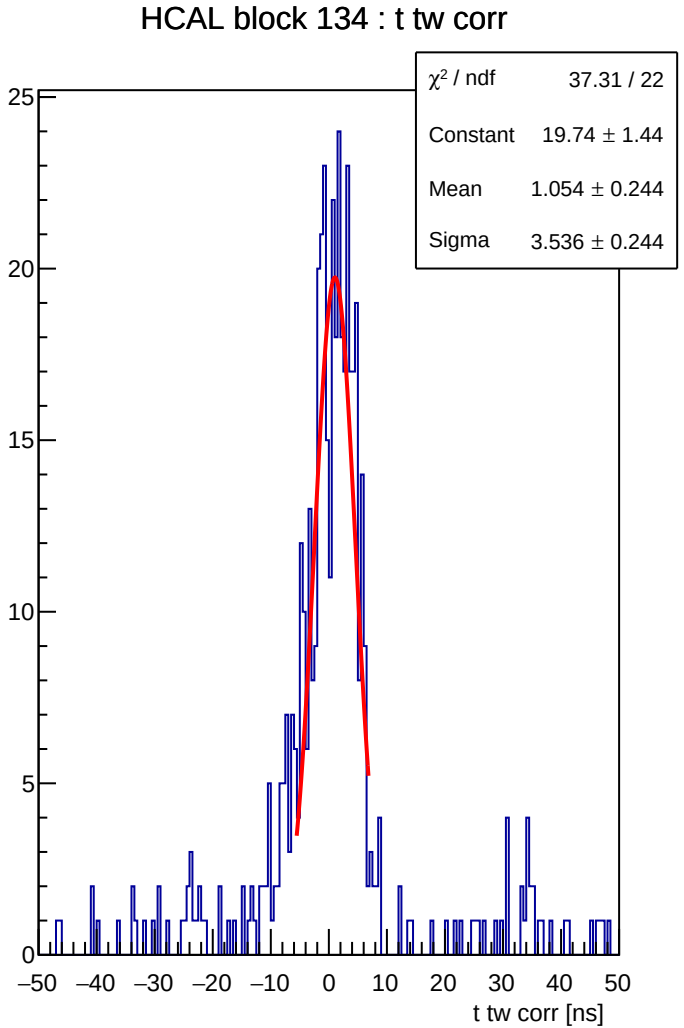

HCAL block 132 : t
χ² / ndf 33.21 / 38
Constant 6.173 ± 0.633
Mean 0.5439 ± 0.7212
Sigma 6.726 ± 0.859
t [ns]

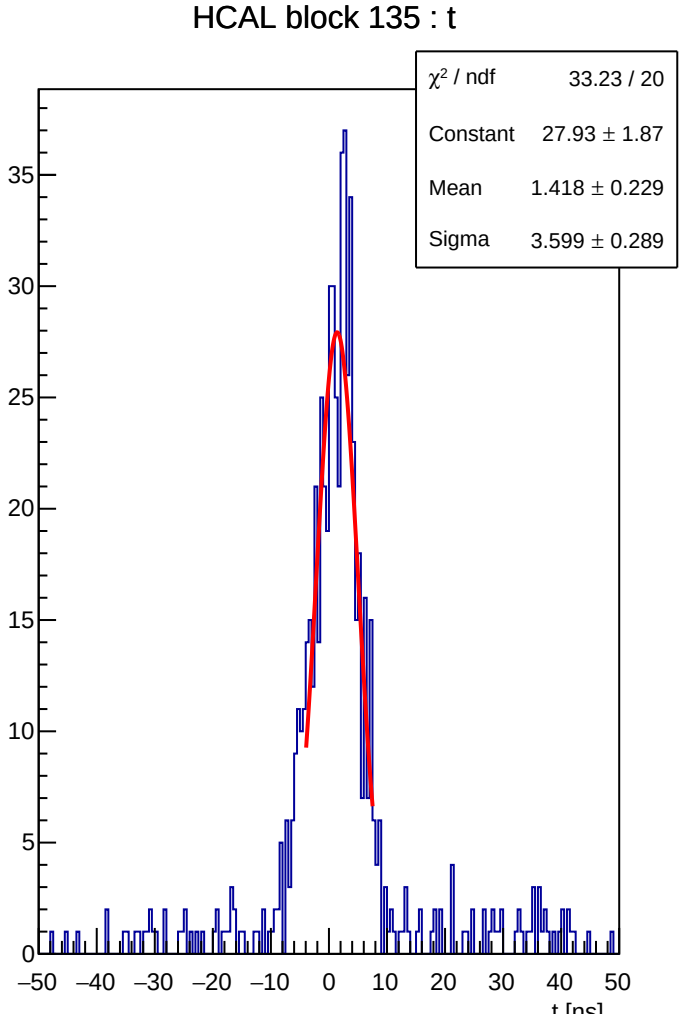

HCAL block 132 : t tw corr
χ² / ndf 27.46 / 37
Constant 6.64 ± 0.69
Mean 1.262 ± 0.594
Sigma 6.246 ± 0.746
t tw corr [ns]

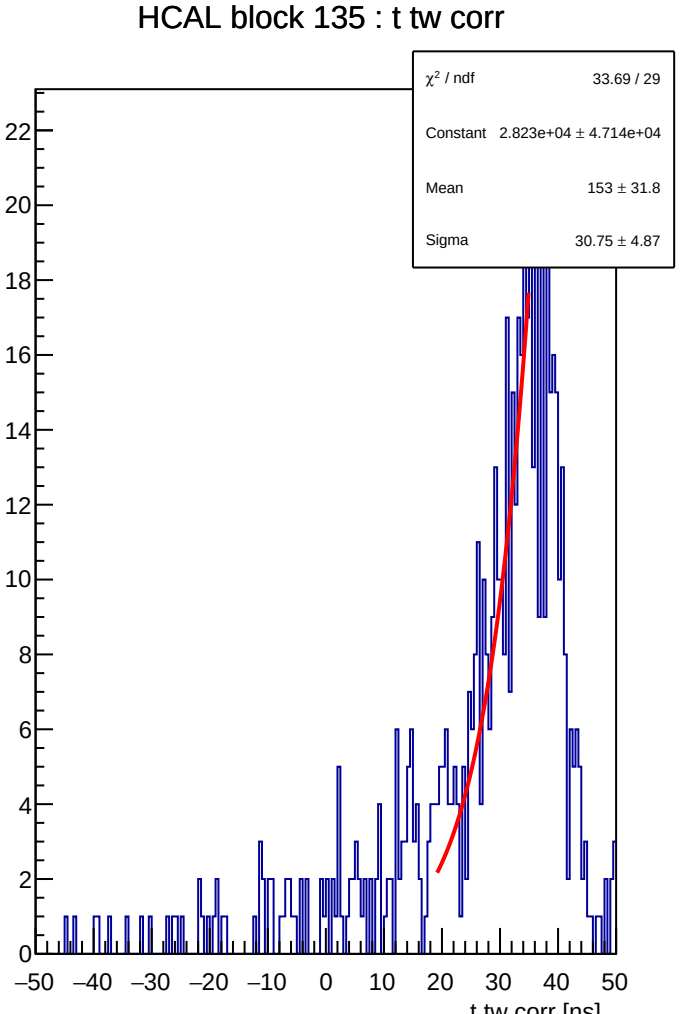

HCAL block 133 : t
χ² / ndf 43.67 / 21
Constant 19.09 ± 1.52
Mean 1.49 ± 0.21
Sigma 2.944 ± 0.189
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

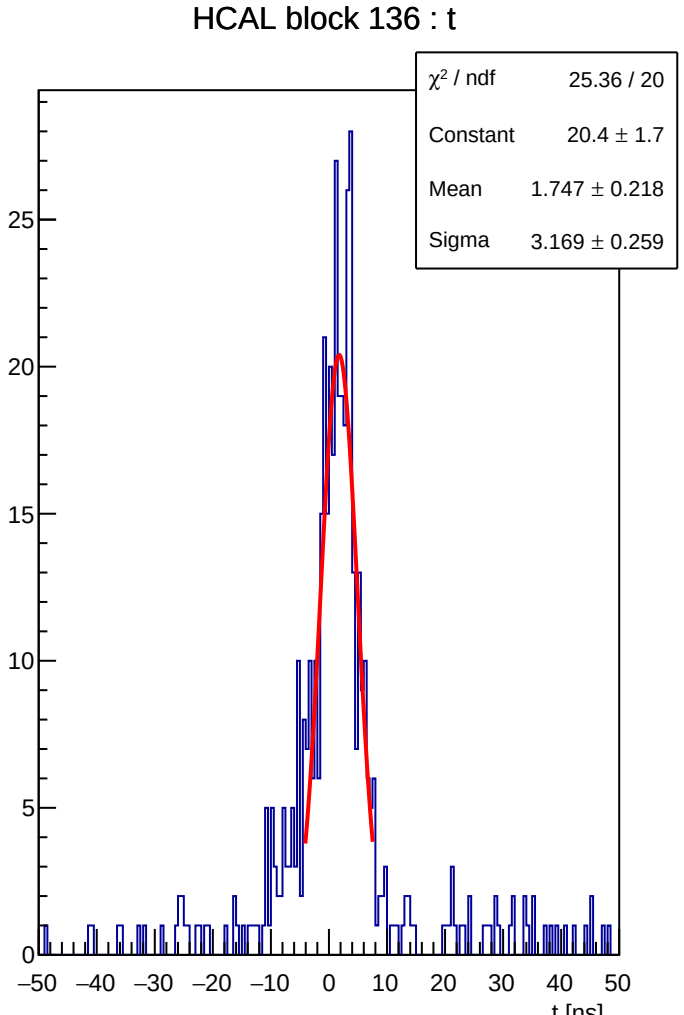

HCAL block 133 : t tw corr
χ² / ndf 39.42 / 21
Constant 19.95 ± 1.54
Mean 1.362 ± 0.200
Sigma 2.888 ± 0.173
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

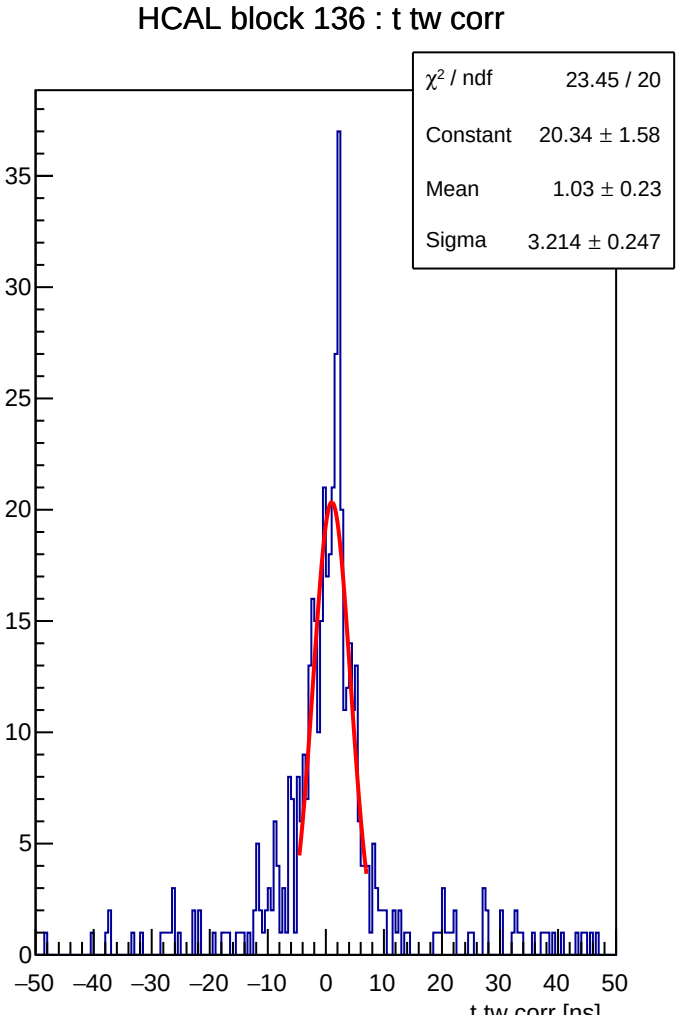

HCAL block 134 : t
χ² / ndf 36.32 / 22
Constant 19.28 ± 1.46
Mean 1.444 ± 0.261
Sigma 3.748 ± 0.304
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

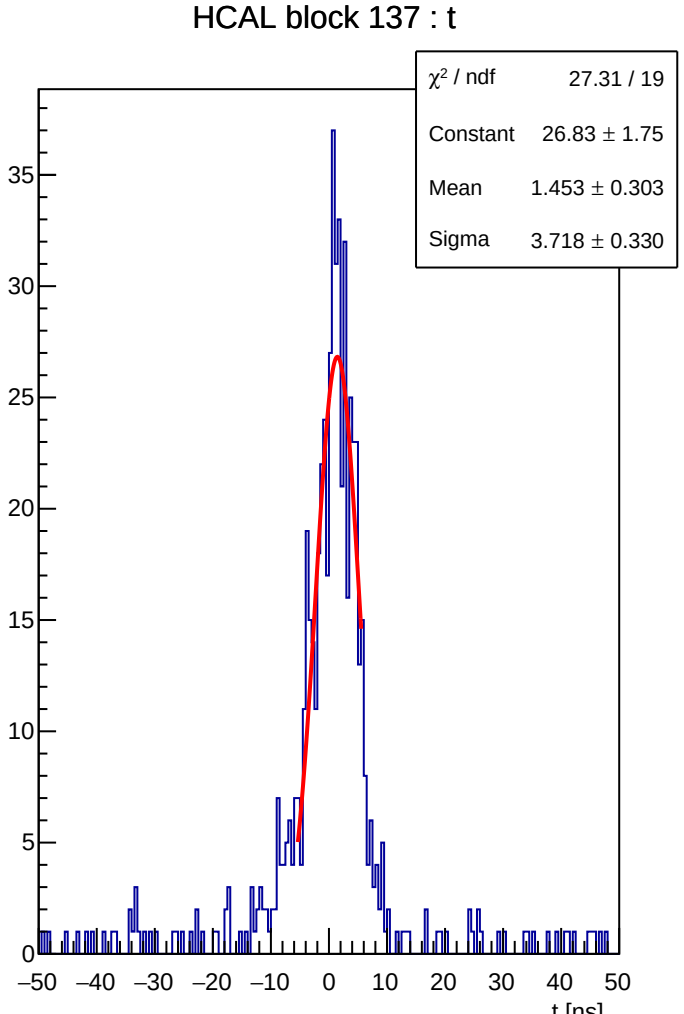

HCAL block 134 : t tw corr
χ² / ndf 37.31 / 22
Constant 19.74 ± 1.44
Mean 1.054 ± 0.244
Sigma 3.536 ± 0.244
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

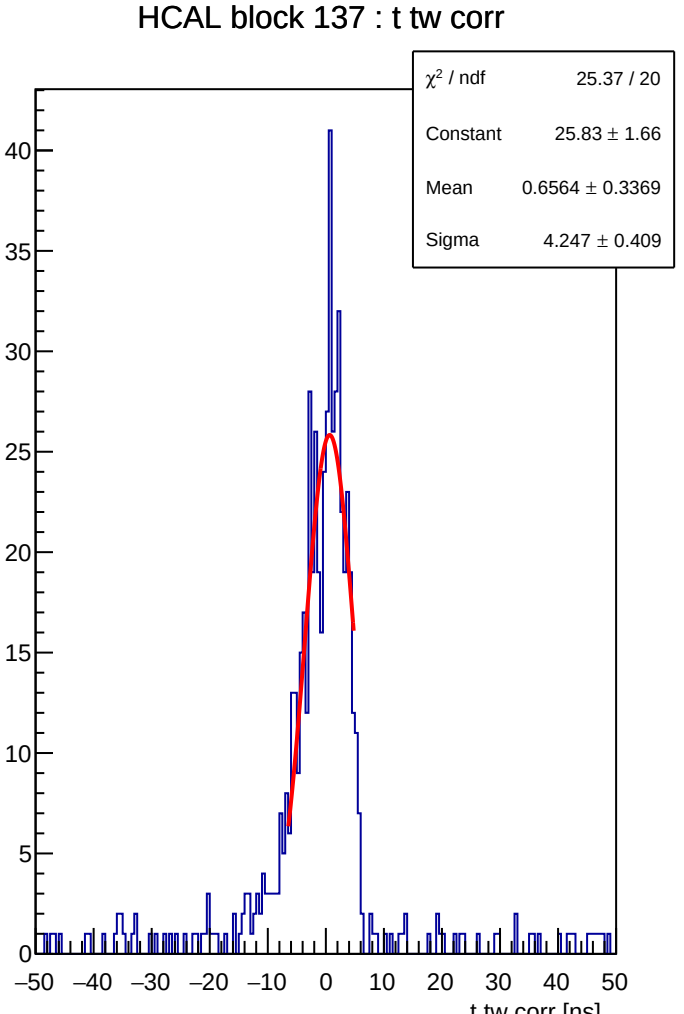

HCAL block 135 : t
χ² / ndf 33.23 / 20
Constant 27.93 ± 1.87
Mean 1.418 ± 0.229
Sigma 3.599 ± 0.289
t [ns]

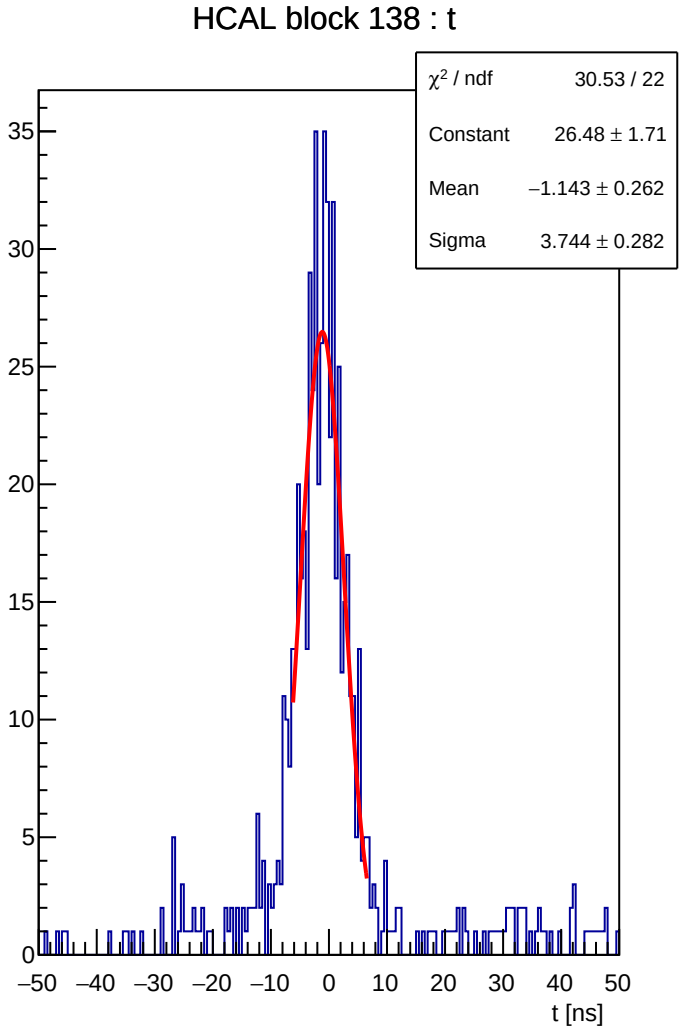

HCAL block 135 : t tw corr
χ² / ndf 33.69 / 29
Constant 2.823e+04 ± 4.714e+04
Mean 153 ± 31.8
Sigma 30.75 ± 4.87
t tw corr [ns]

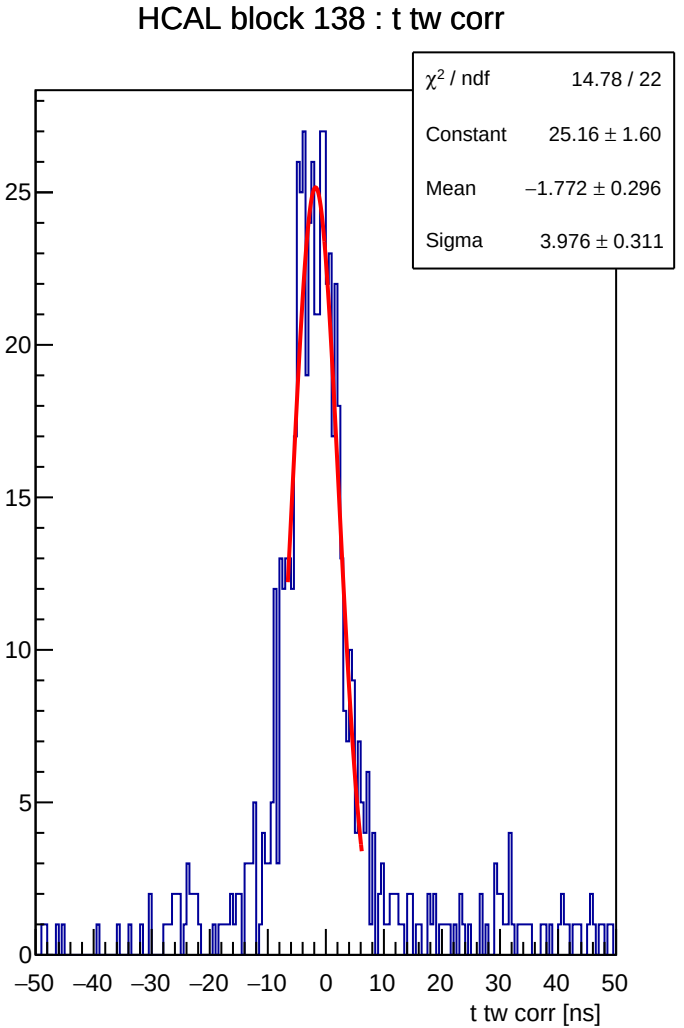

HCAL block 136 : t
χ² / ndf 25.36 / 20
Constant 20.4 ± 1.7
Mean 1.747 ± 0.218
Sigma 3.169 ± 0.259
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

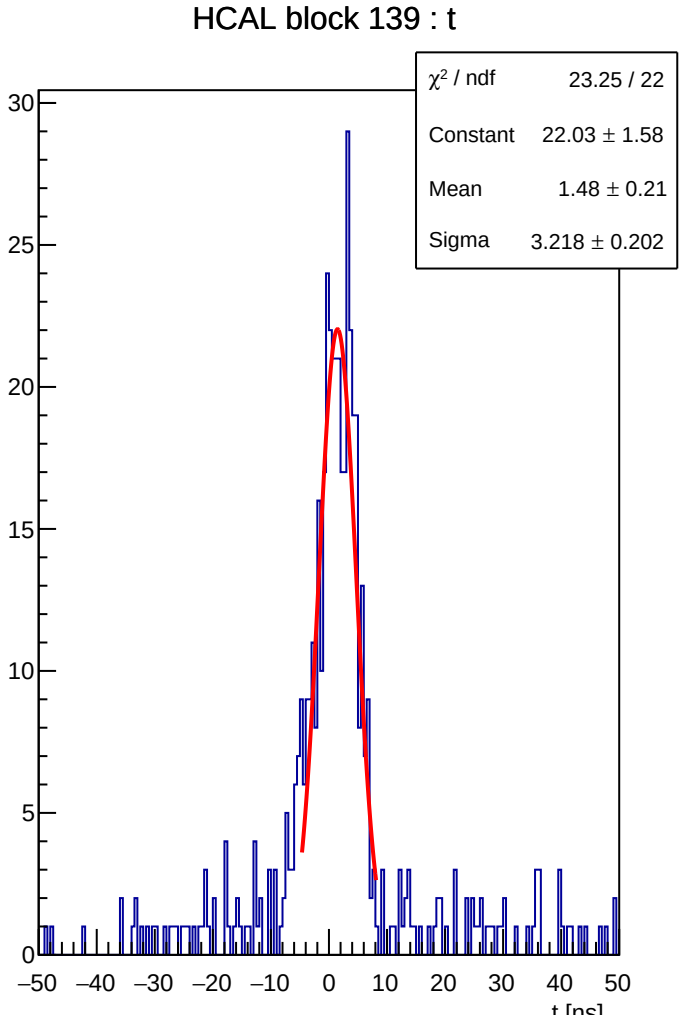

HCAL block 136 : t tw corr
χ² / ndf 23.45 / 20
Constant 20.34 ± 1.58
Mean 1.03 ± 0.23
Sigma 3.214 ± 0.247
35
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

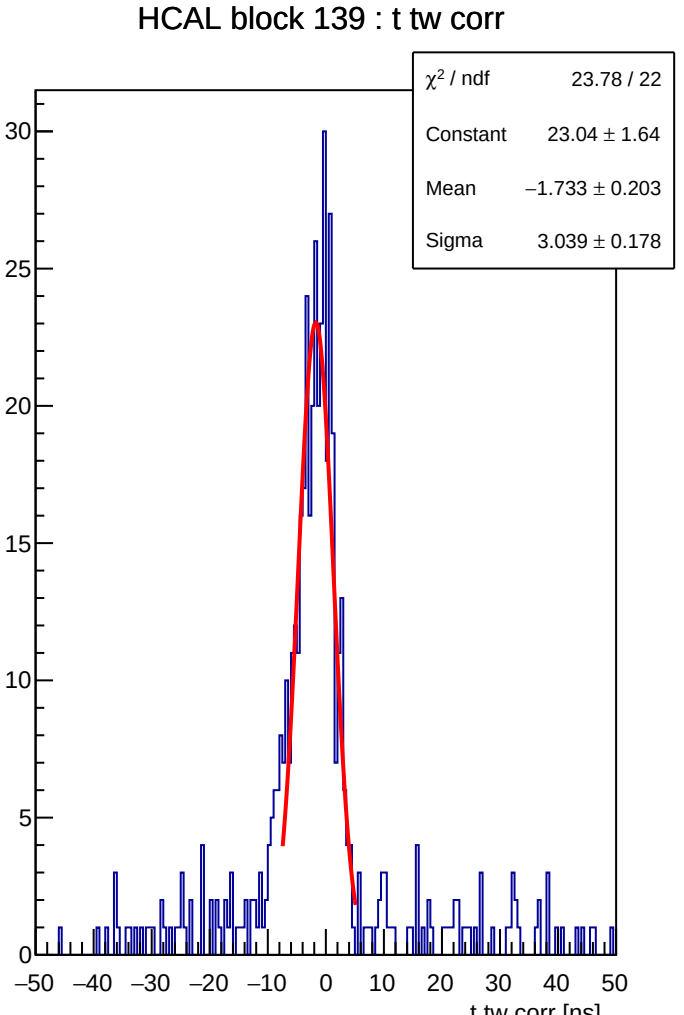

HCAL block 137 : t
χ² / ndf 27.31 / 19
Constant 26.83 ± 1.75
Mean 1.453 ± 0.303
Sigma 3.718 ± 0.330
t [ns]

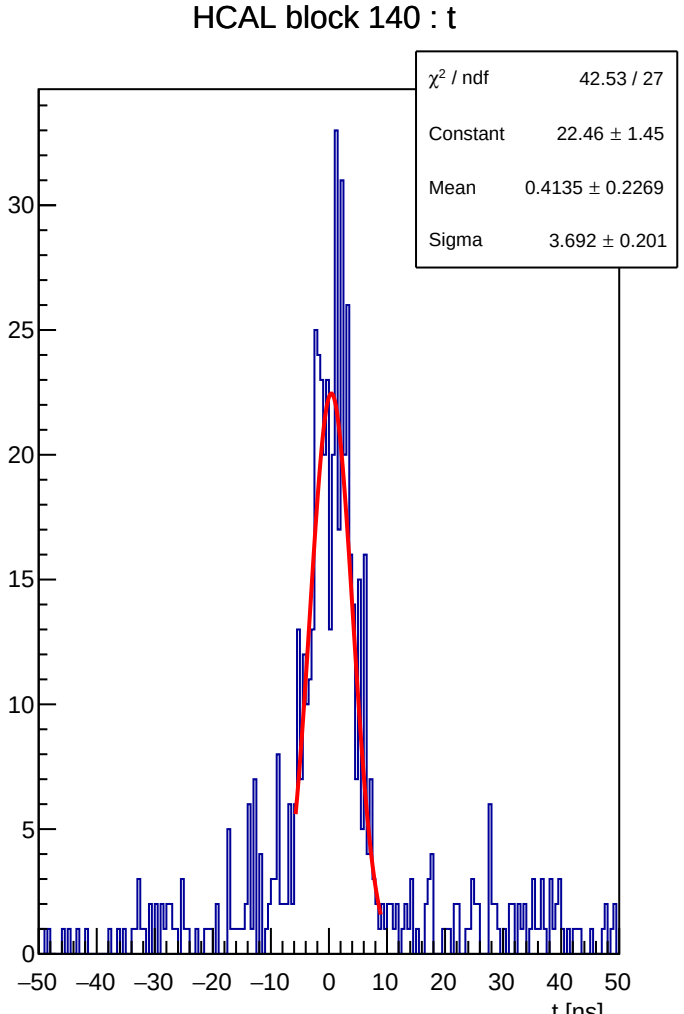

HCAL block 137 : t tw corr
χ² / ndf 25.37 / 20
Constant 25.83 ± 1.66
Mean 0.6564 ± 0.3369
Sigma 4.247 ± 0.409
t tw corr [ns]

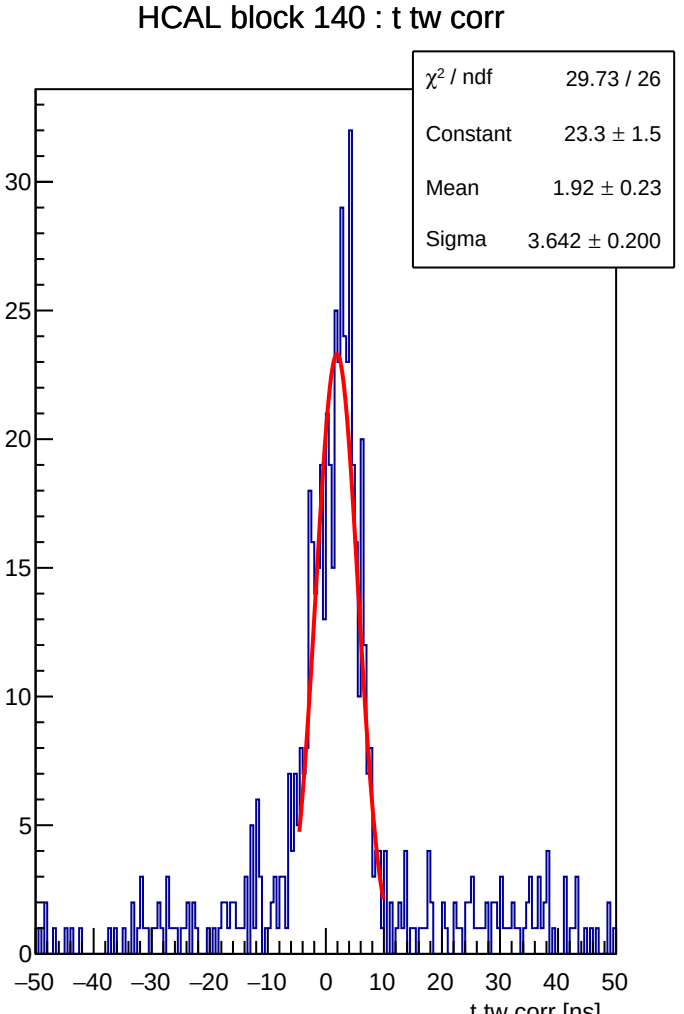

HCAL block 138 : t
χ² / ndf 30.53 / 22
Constant 26.48 ± 1.71
Mean −1.143 ± 0.262
Sigma 3.744 ± 0.282
35
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

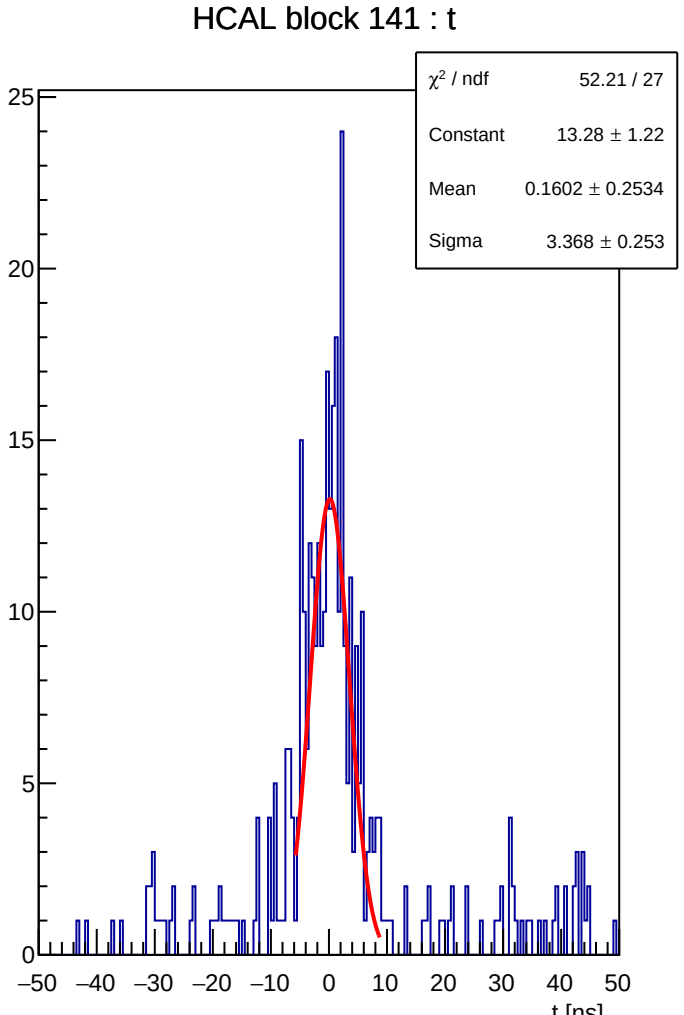

HCAL block 138 : t tw corr
χ² / ndf 14.78 / 22
Constant 25.16 ± 1.60
Mean −1.772 ± 0.296
Sigma 3.976 ± 0.311
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

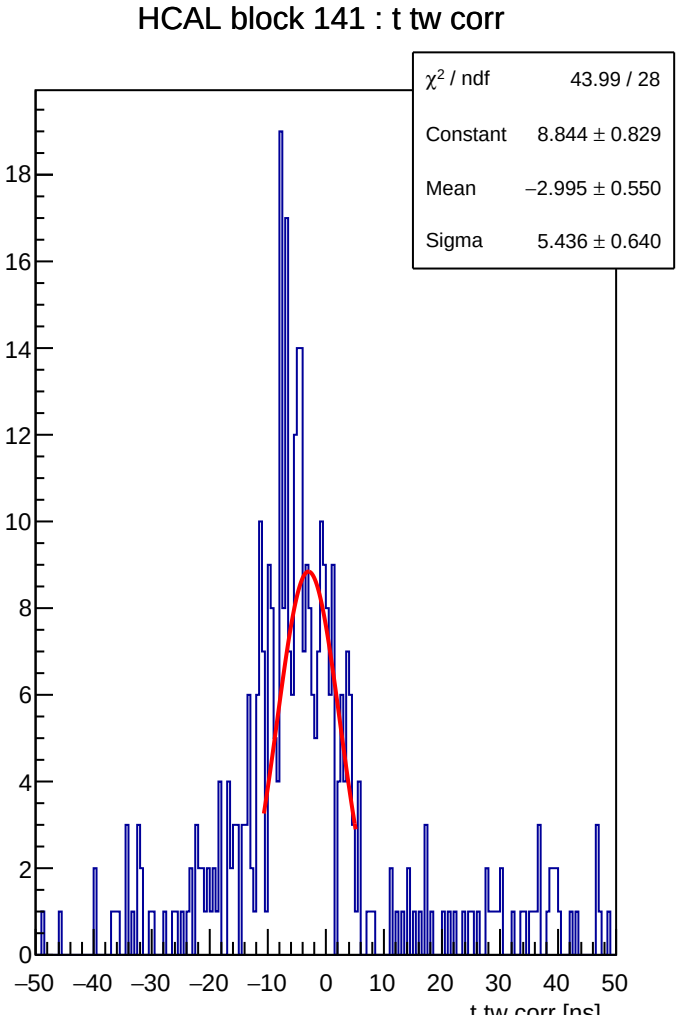

HCAL block 139 : t
χ² / ndf 23.25 / 22
Constant 22.03 ± 1.58
Mean 1.48 ± 0.21
Sigma 3.218 ± 0.202
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

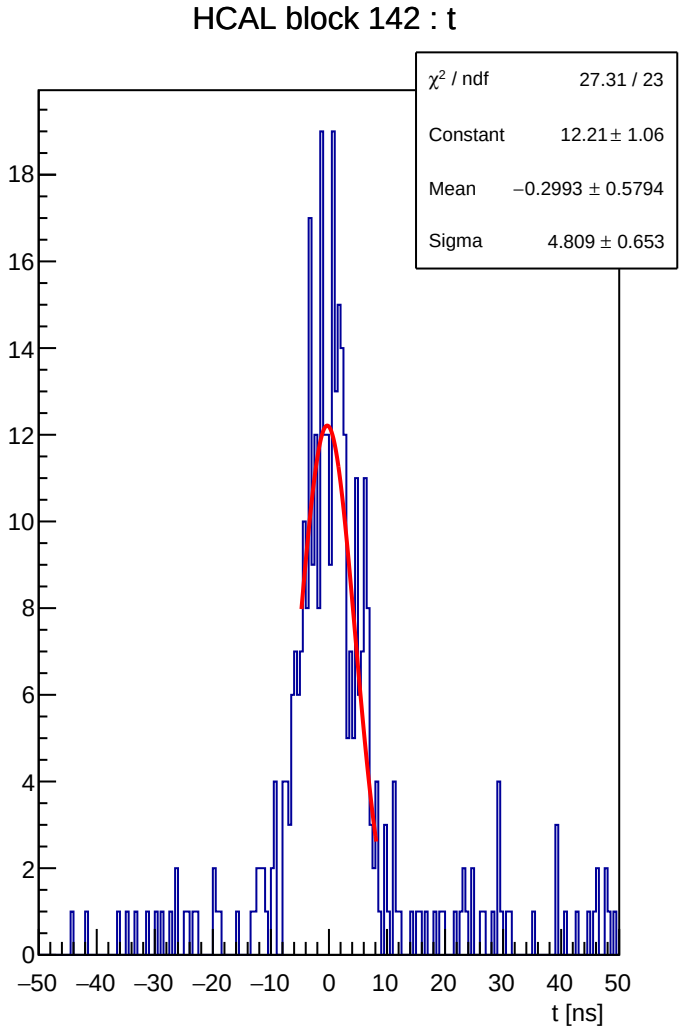

HCAL block 139 : t tw corr
χ² / ndf 23.78 / 22
Constant 23.04 ± 1.64
Mean –1.733 ± 0.203
Sigma 3.039 ± 0.178
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

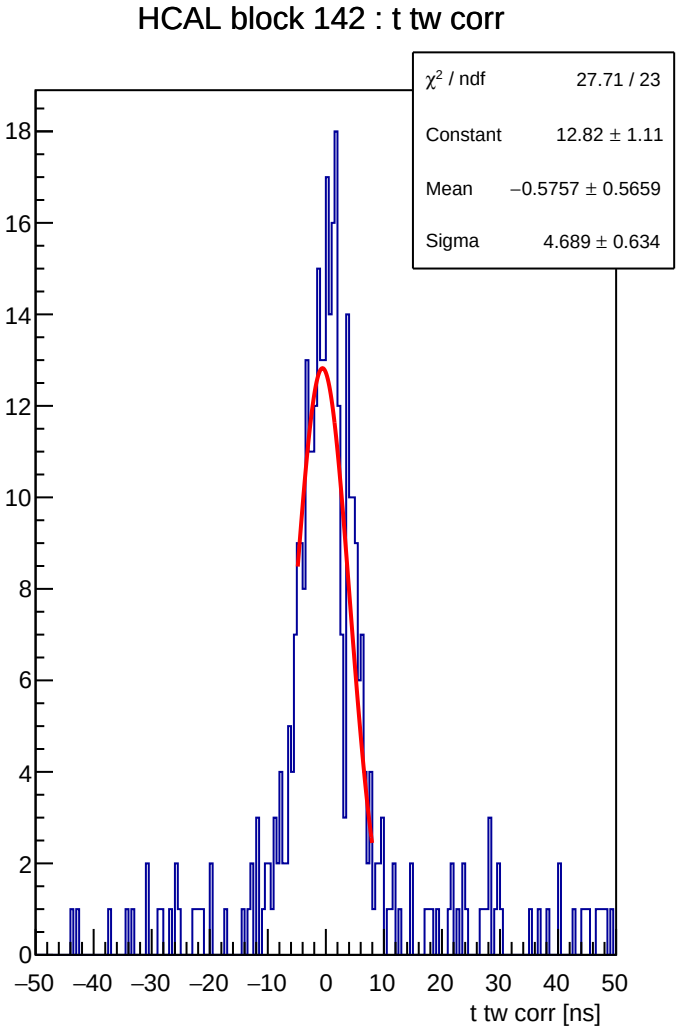

HCAL block 140 : t
χ² / ndf 42.53 / 27
Constant 22.46 ± 1.45
Mean 0.4135 ± 0.2269
Sigma 3.692 ± 0.201
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

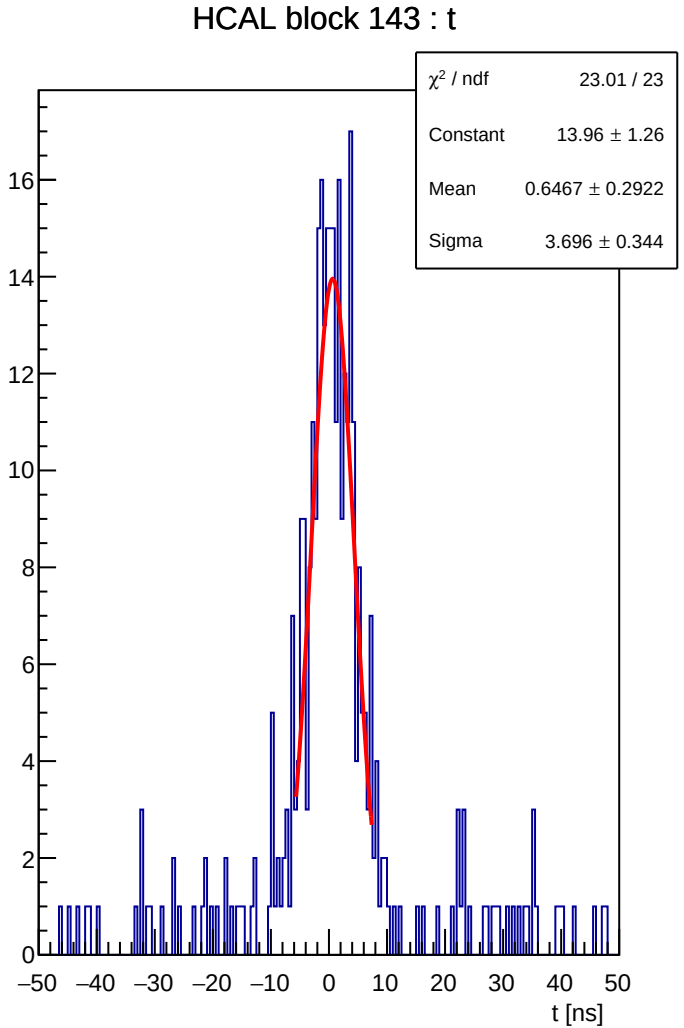

HCAL block 140 : t tw corr
χ² / ndf 29.73 / 26
Constant 23.3 ± 1.5
Mean 1.92 ± 0.23
Sigma 3.642 ± 0.200
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

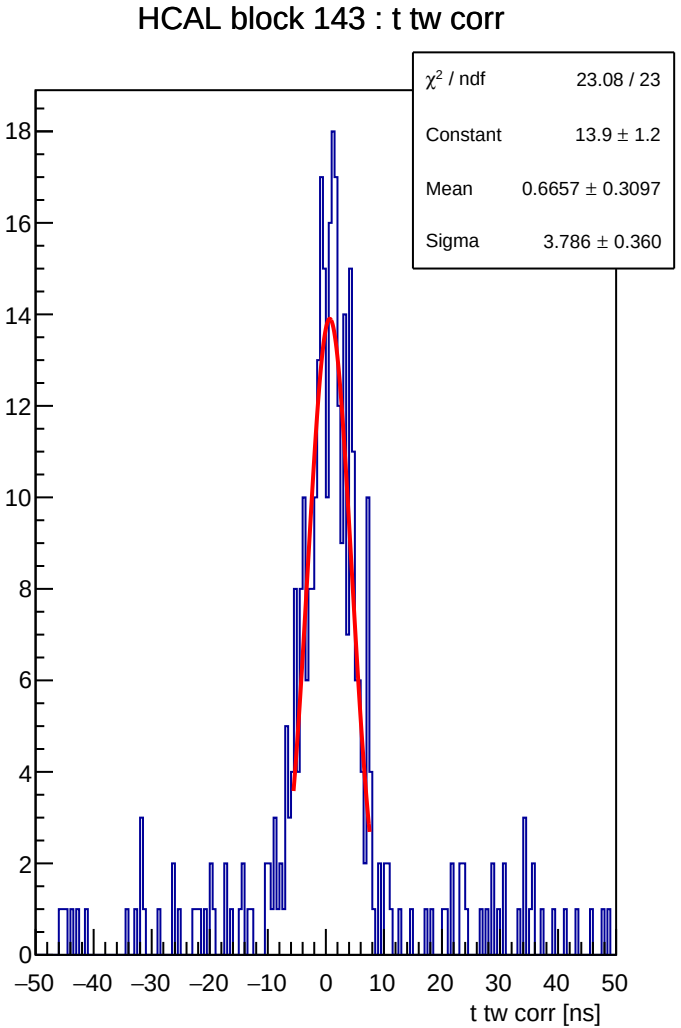

HCAL block 141 : t
χ² / ndf 52.21 / 27
Constant 13.28 ± 1.22
Mean 0.1602 ± 0.2534
Sigma 3.368 ± 0.253
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

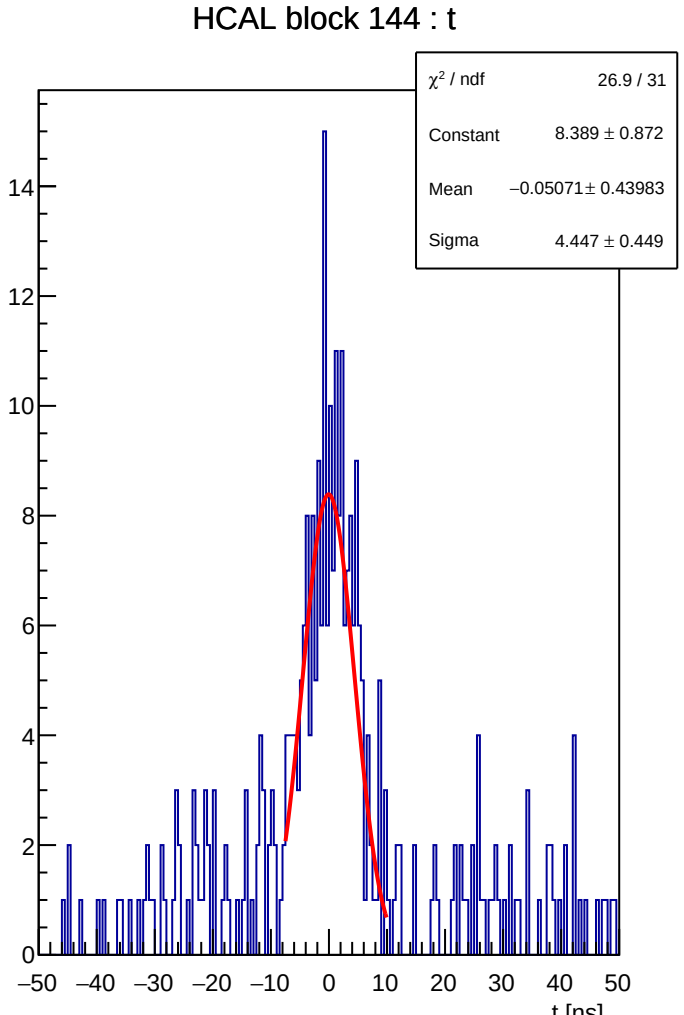

HCAL block 141 : t tw corr
χ² / ndf 43.99 / 28
Constant 8.844 ± 0.829
Mean –2.995 ± 0.550
Sigma 5.436 ± 0.640
18
16
14
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

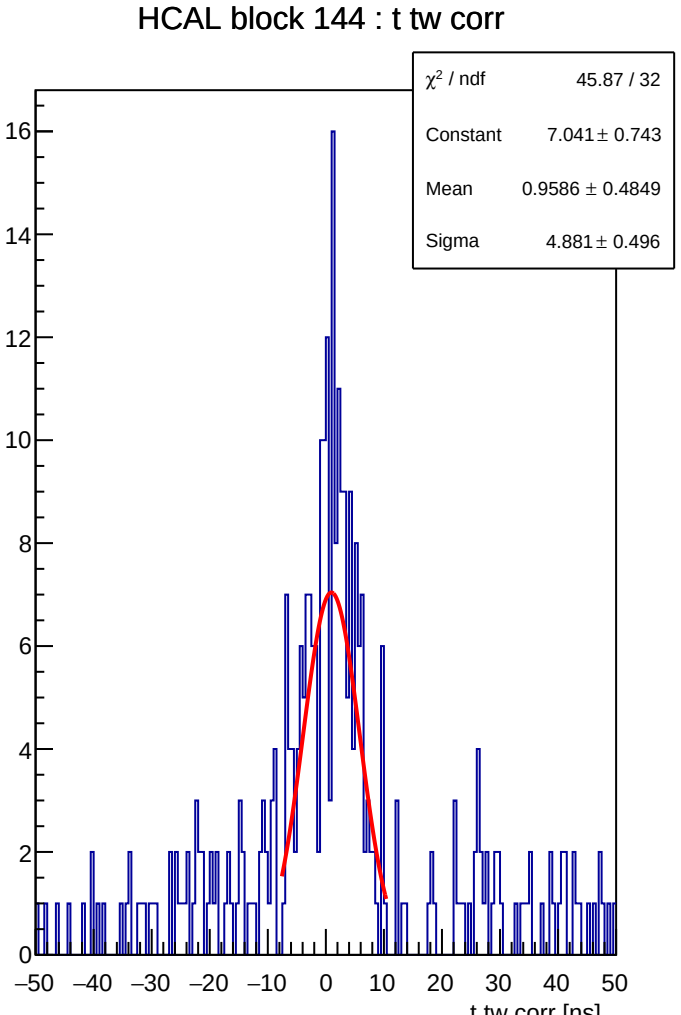

HCAL block 142 : t
χ² / ndf 27.31 / 23
Constant 12.21 ± 1.06
Mean −0.2993 ± 0.5794
Sigma 4.809 ± 0.653
t [ns]

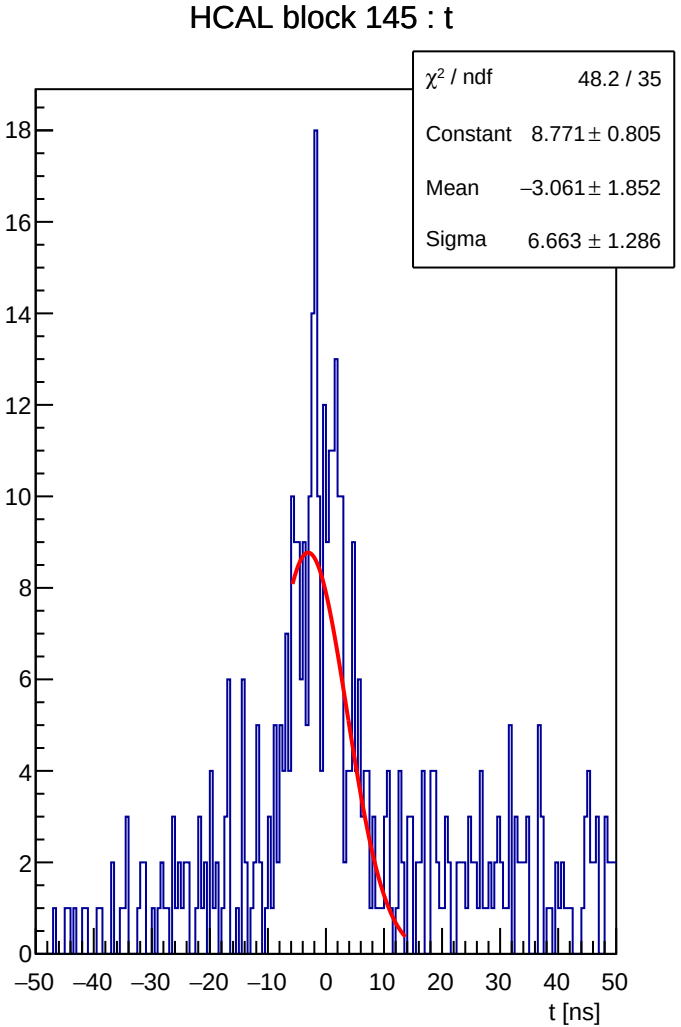

HCAL block 142 : t tw corr
χ² / ndf 27.71 / 23
Constant 12.82 ± 1.11
Mean −0.5757 ± 0.5659
Sigma 4.689 ± 0.634
t tw corr [ns]

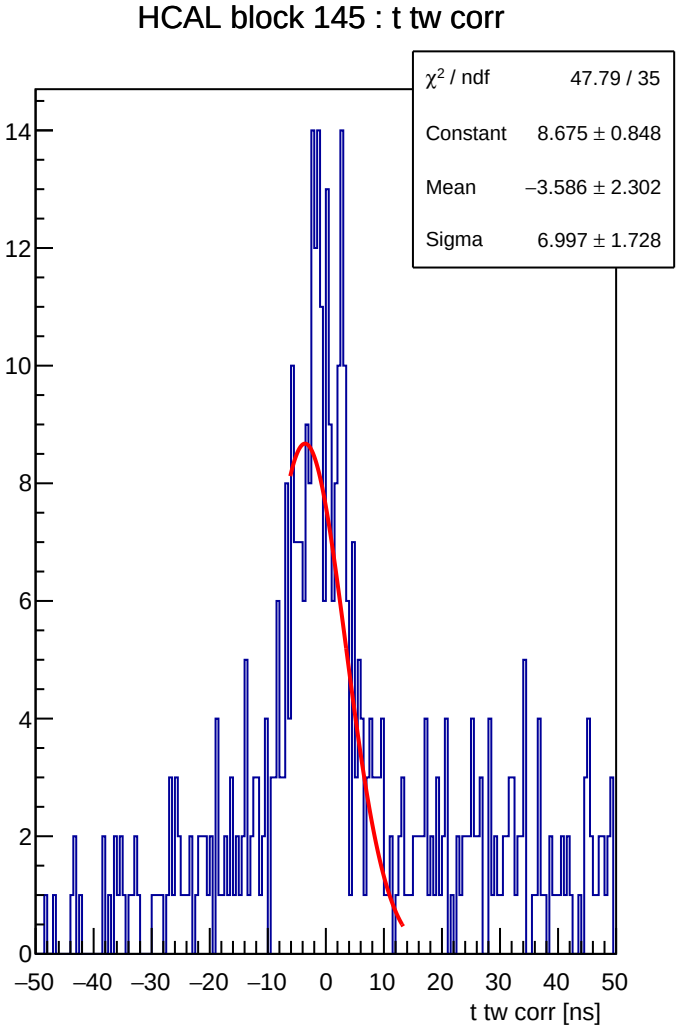

HCAL block 143 : t
χ² / ndf 23.01 / 23
Constant 13.96 ± 1.26
Mean 0.6467 ± 0.2922
Sigma 3.696 ± 0.344
t [ns]

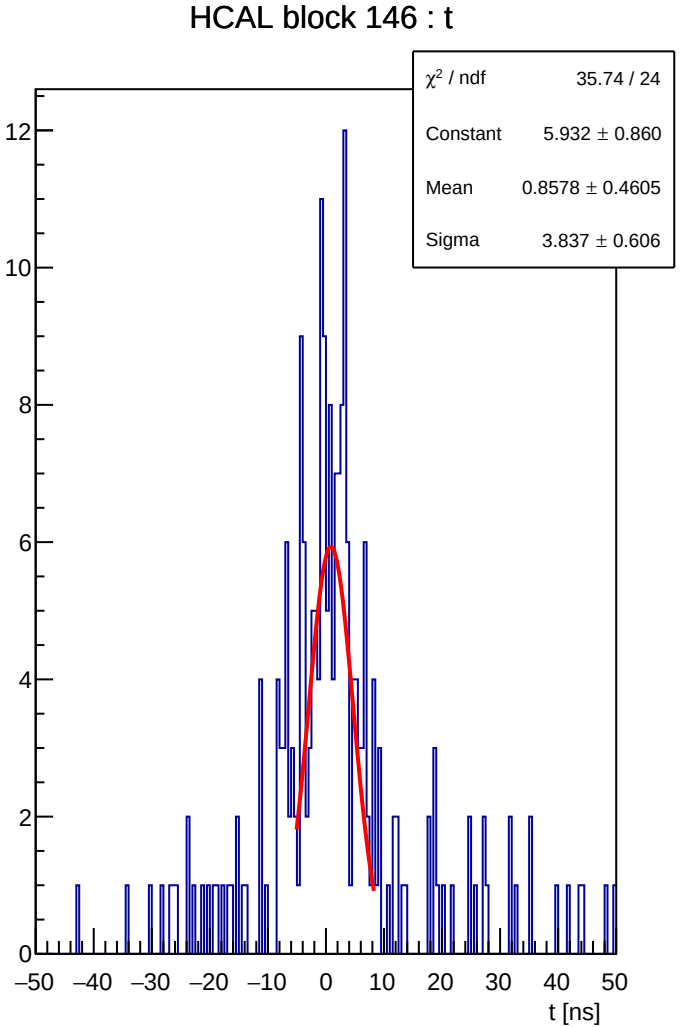

HCAL block 143 : t tw corr
χ² / ndf 23.08 / 23
Constant 13.9 ± 1.2
Mean 0.6657 ± 0.3097
Sigma 3.786 ± 0.360
t tw corr [ns]

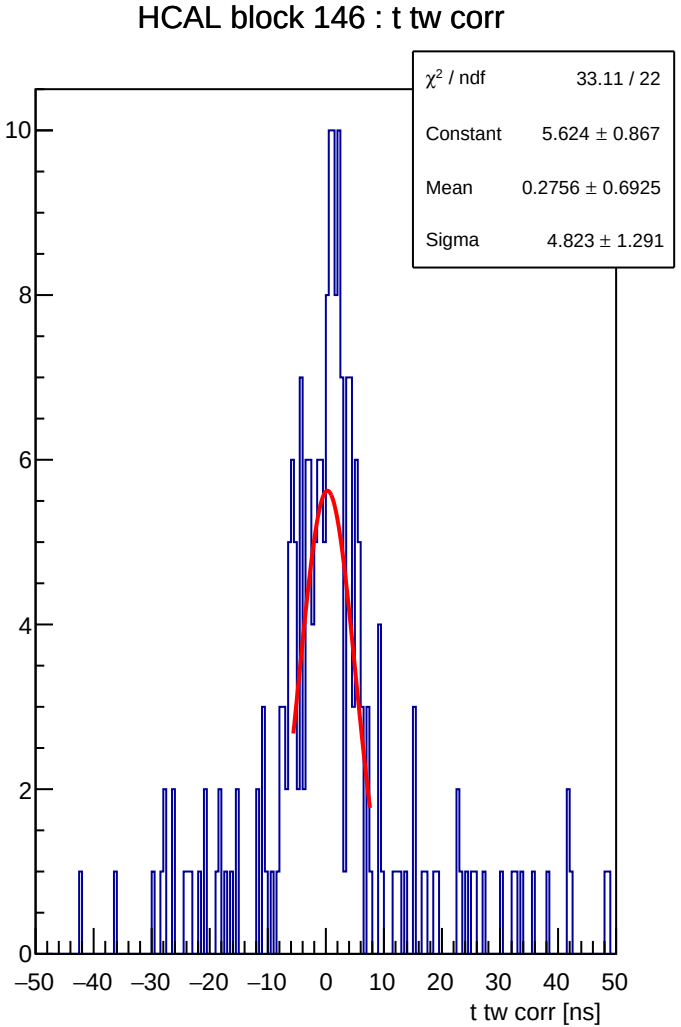

HCAL block 144 : t
χ² / ndf 26.9 / 31
Constant 8.389 ± 0.872
Mean −0.05071 ± 0.43983
Sigma 4.447 ± 0.449
t [ns]

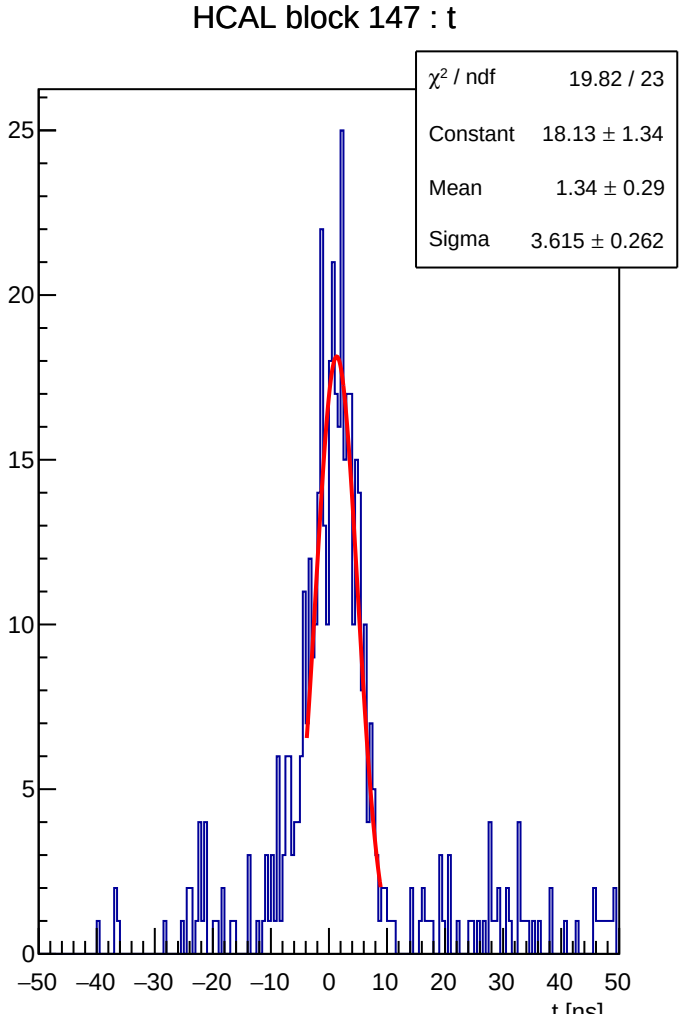

HCAL block 144 : t tw corr
χ² / ndf 45.87 / 32
Constant 7.041 ± 0.743
Mean 0.9586 ± 0.4849
Sigma 4.881 ± 0.496
t tw corr [ns]

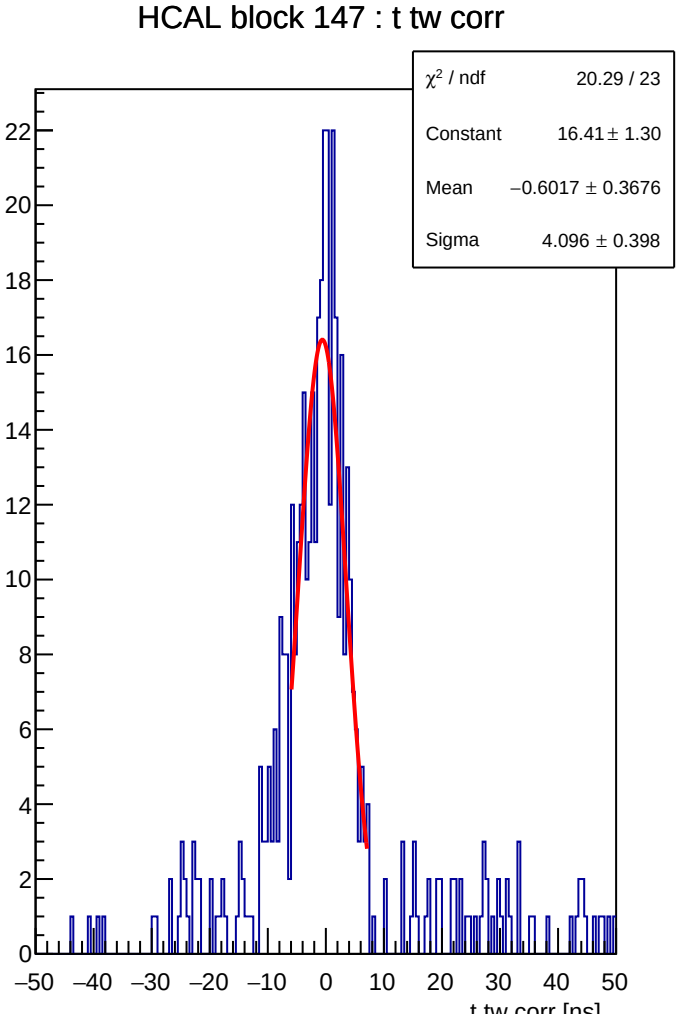

HCAL block 145 : t
χ² / ndf 48.2 / 35
Constant 8.771 ± 0.805
Mean −3.061 ± 1.852
Sigma 6.663 ± 1.286
t [ns]

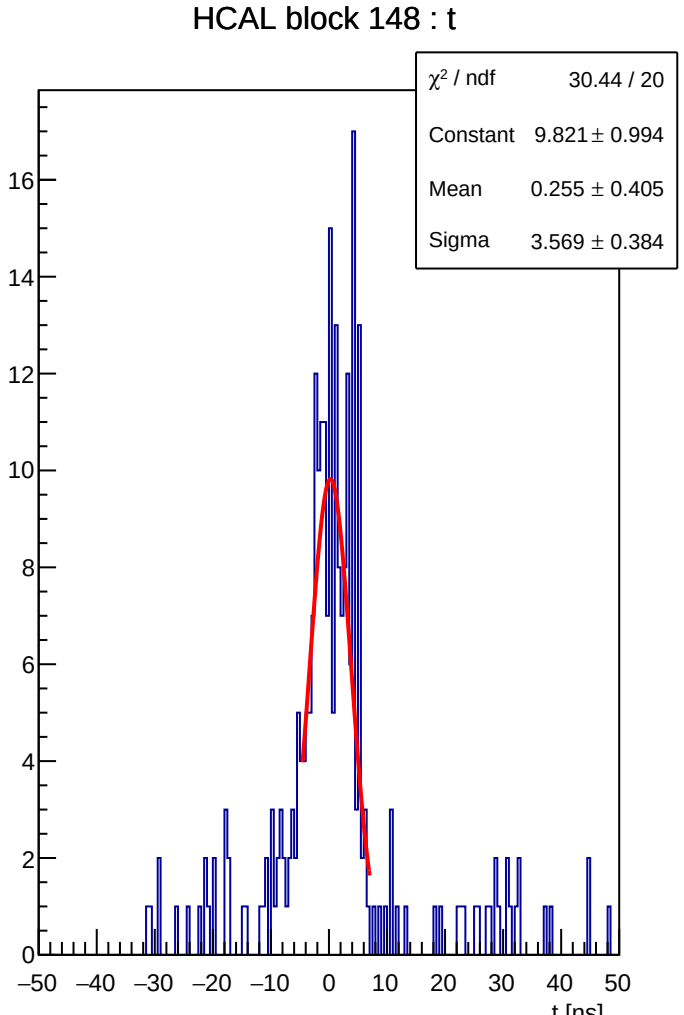

HCAL block 145 : t tw corr
χ² / ndf 47.79 / 35
Constant 8.675 ± 0.848
Mean −3.586 ± 2.302
Sigma 6.997 ± 1.728
t tw corr [ns]

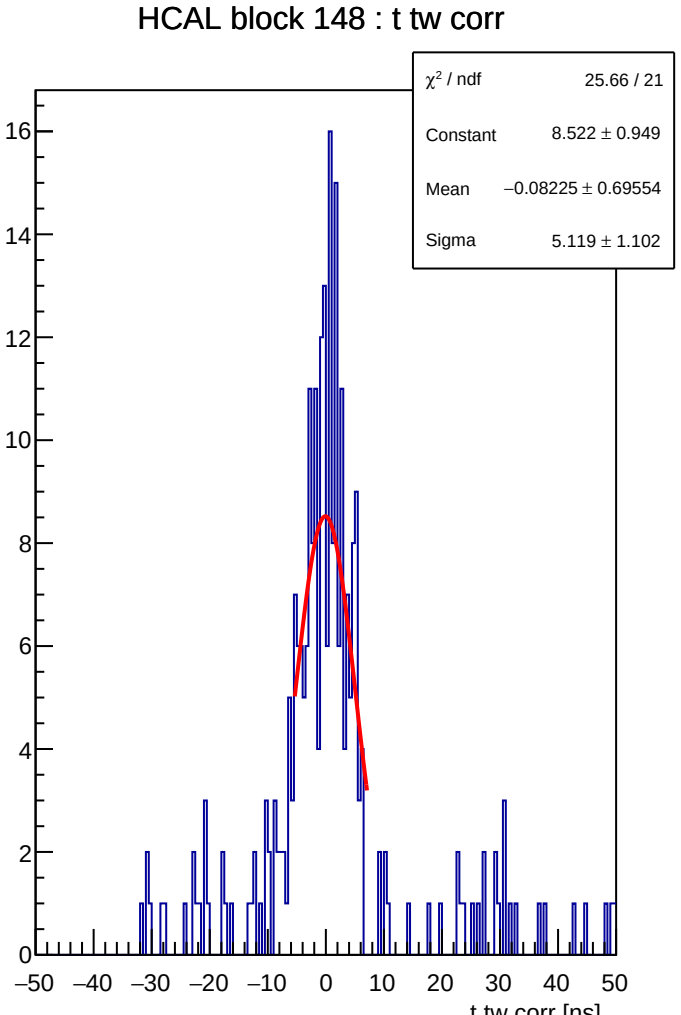

HCAL block 146 : t
χ² / ndf 35.74 / 24
Constant 5.932 ± 0.860
Mean 0.8578 ± 0.4605
Sigma 3.837 ± 0.606
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

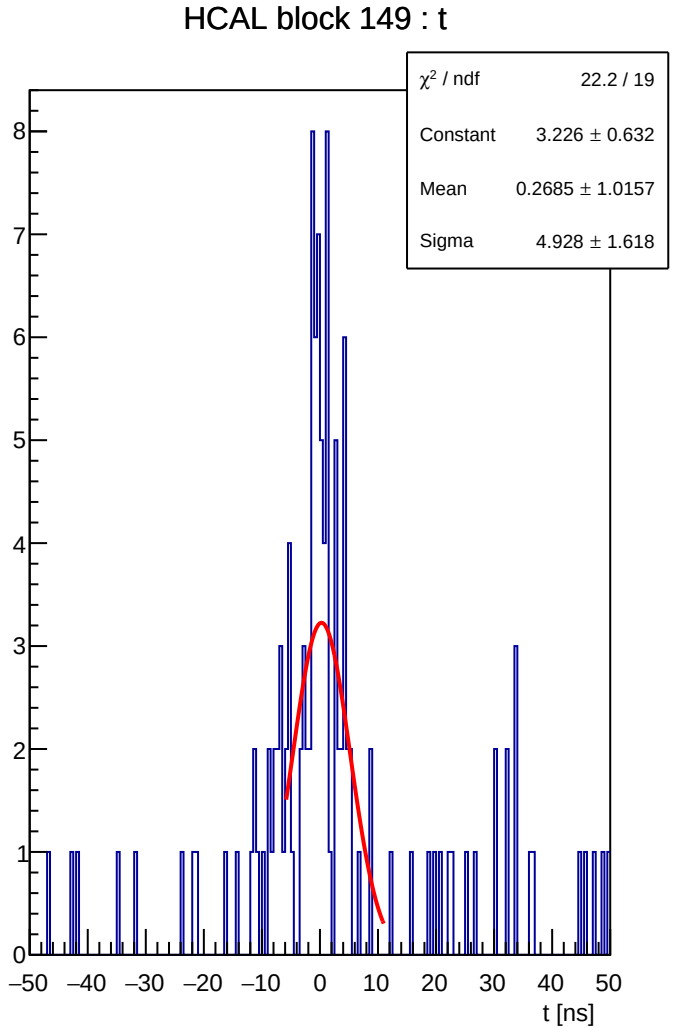

HCAL block 146 : t tw corr
χ² / ndf 33.11 / 22
Constant 5.624 ± 0.867
Mean 0.2756 ± 0.6925
Sigma 4.823 ± 1.291
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

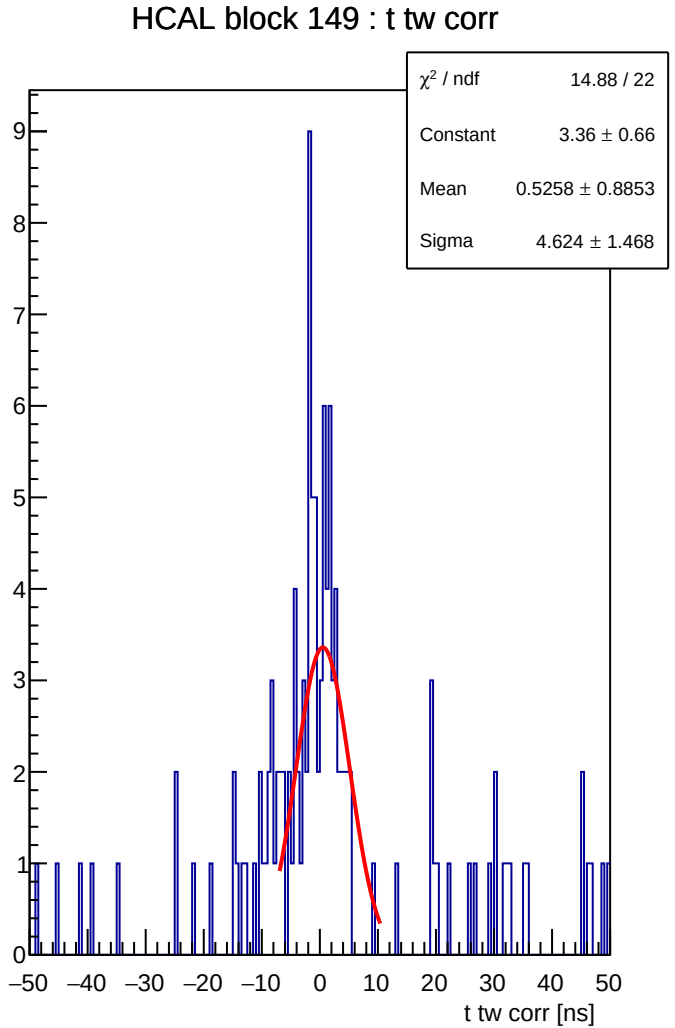

HCAL block 147 : t
χ² / ndf 19.82 / 23
Constant 18.13 ± 1.34
Mean 1.34 ± 0.29
Sigma 3.615 ± 0.262
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

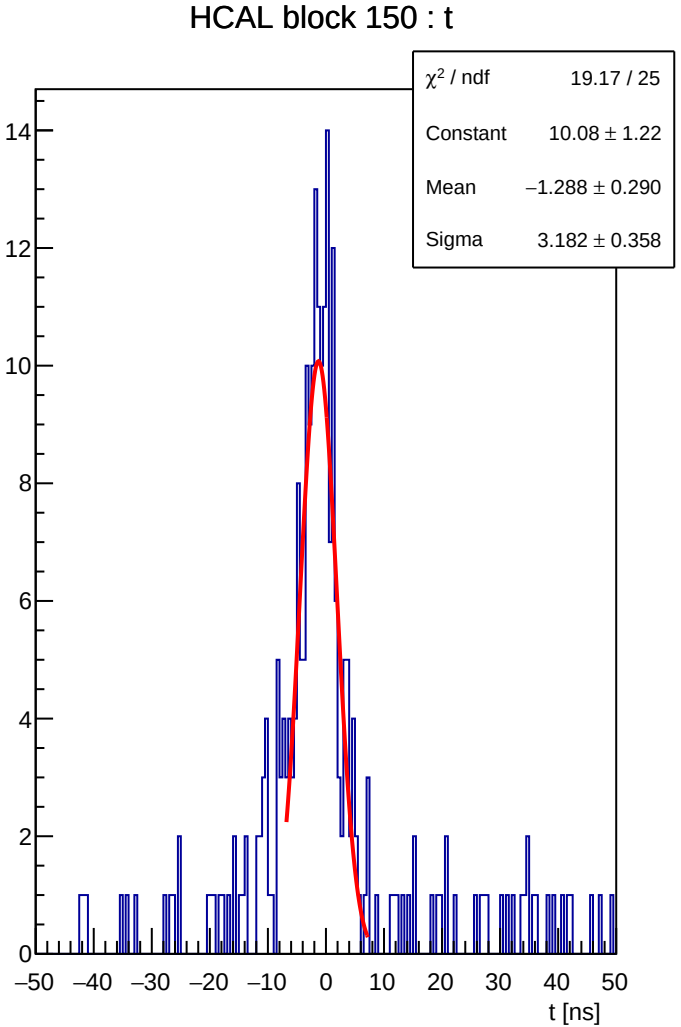

HCAL block 147 : t tw corr
χ² / ndf 20.29 / 23
Constant 16.41 ± 1.30
Mean −0.6017 ± 0.3676
Sigma 4.096 ± 0.398
22
20
18
16
14
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

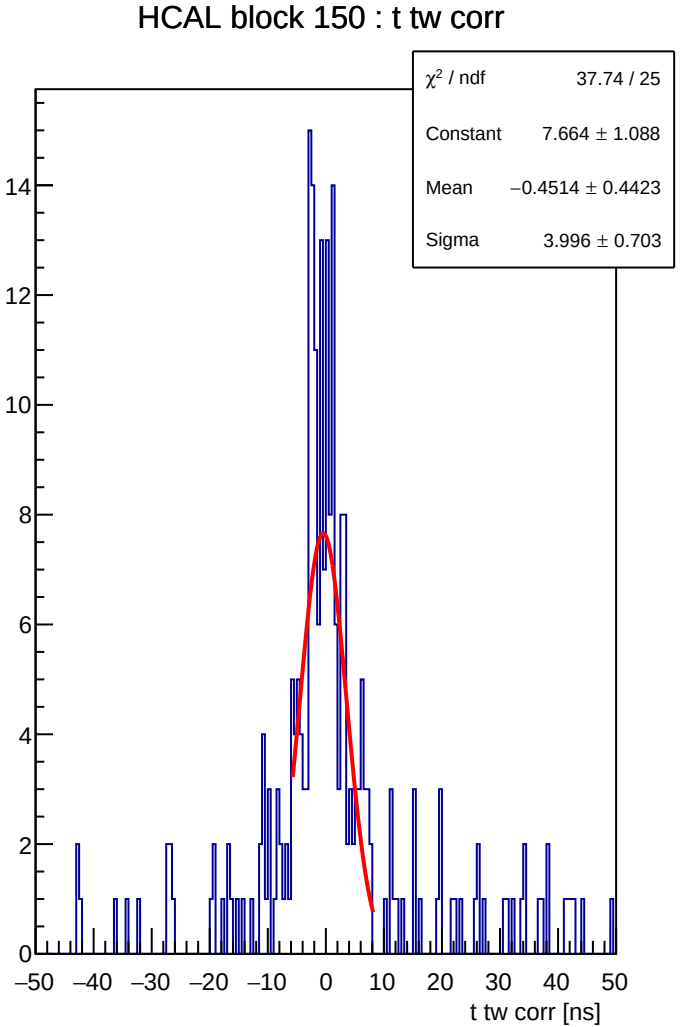

HCAL block 148 : t
χ² / ndf 30.44 / 20
Constant 9.821 ± 0.994
Mean 0.255 ± 0.405
Sigma 3.569 ± 0.384
t [ns]

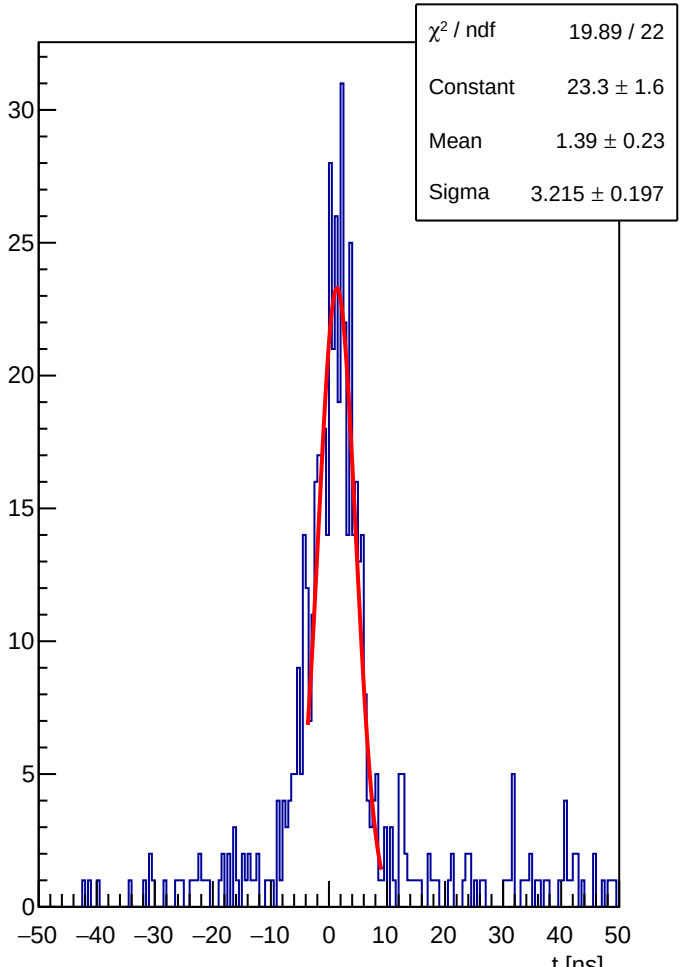

HCAL block 148 : t tw corr
χ² / ndf 25.66 / 21
Constant 8.522 ± 0.949
Mean −0.08225 ± 0.69554
Sigma 5.119 ± 1.102
t tw corr [ns]

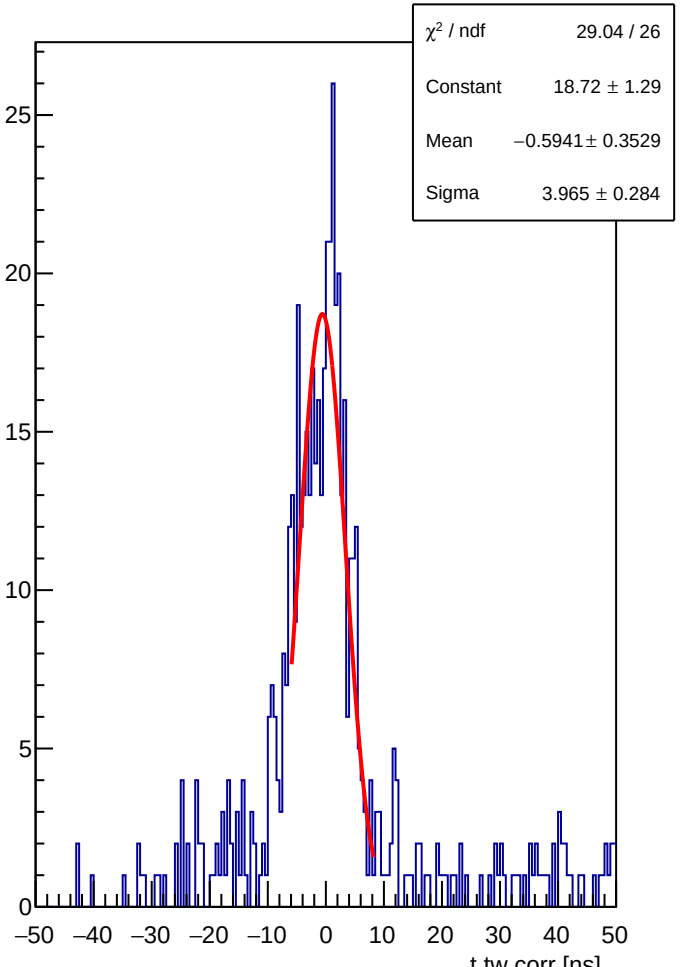

HCAL block 149 : t
χ² / ndf 22.2 / 19
Constant 3.226 ± 0.632
Mean 0.2685 ± 1.0157
Sigma 4.928 ± 1.618
t [ns]

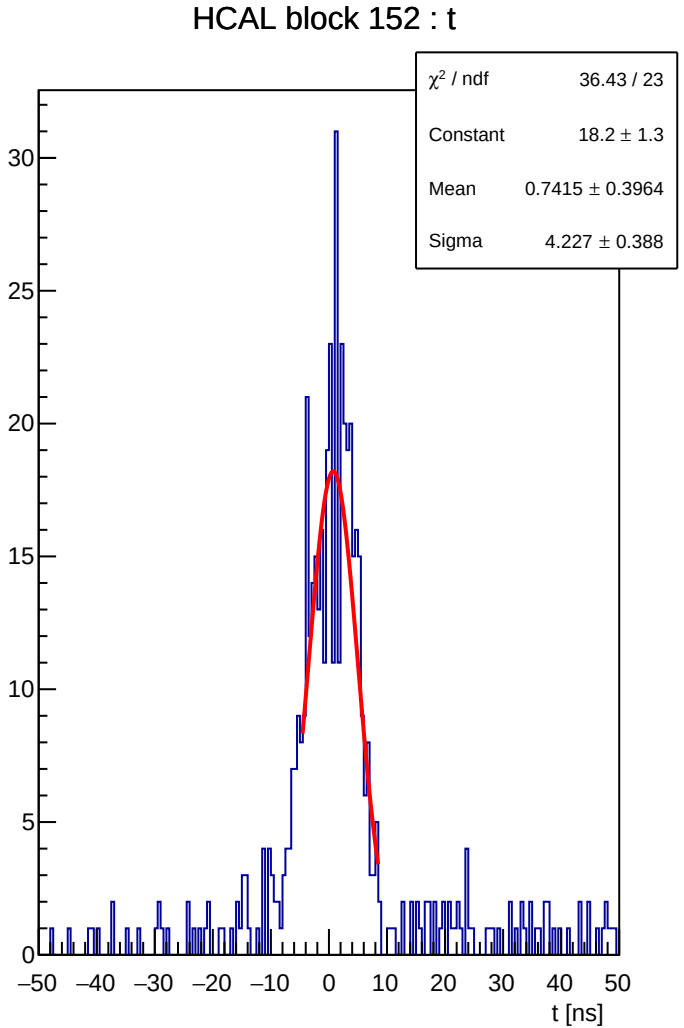

HCAL block 149 : t tw corr
χ² / ndf 14.88 / 22
Constant 3.36 ± 0.66
Mean 0.5258 ± 0.8853
Sigma 4.624 ± 1.468
t tw corr [ns]

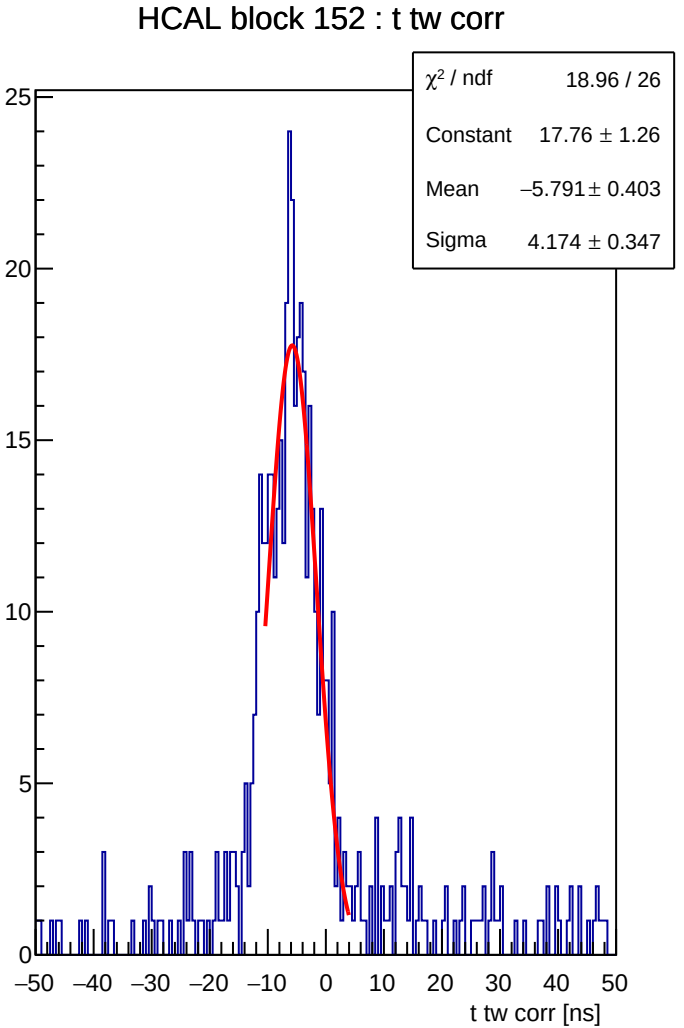

HCAL block 150 : t
χ² / ndf 19.17 / 25
Constant 10.08 ± 1.22
Mean −1.288 ± 0.290
Sigma 3.182 ± 0.358
t [ns]

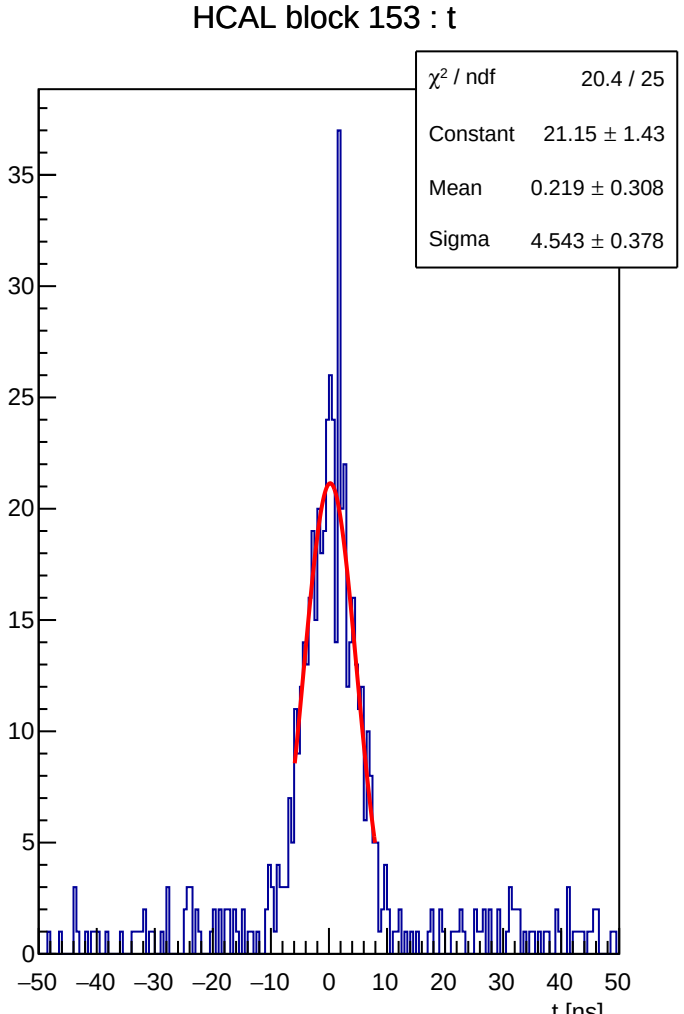

HCAL block 150 : t tw corr
χ² / ndf 37.74 / 25
Constant 7.664 ± 1.088
Mean −0.4514 ± 0.4423
Sigma 3.996 ± 0.703
t tw corr [ns]

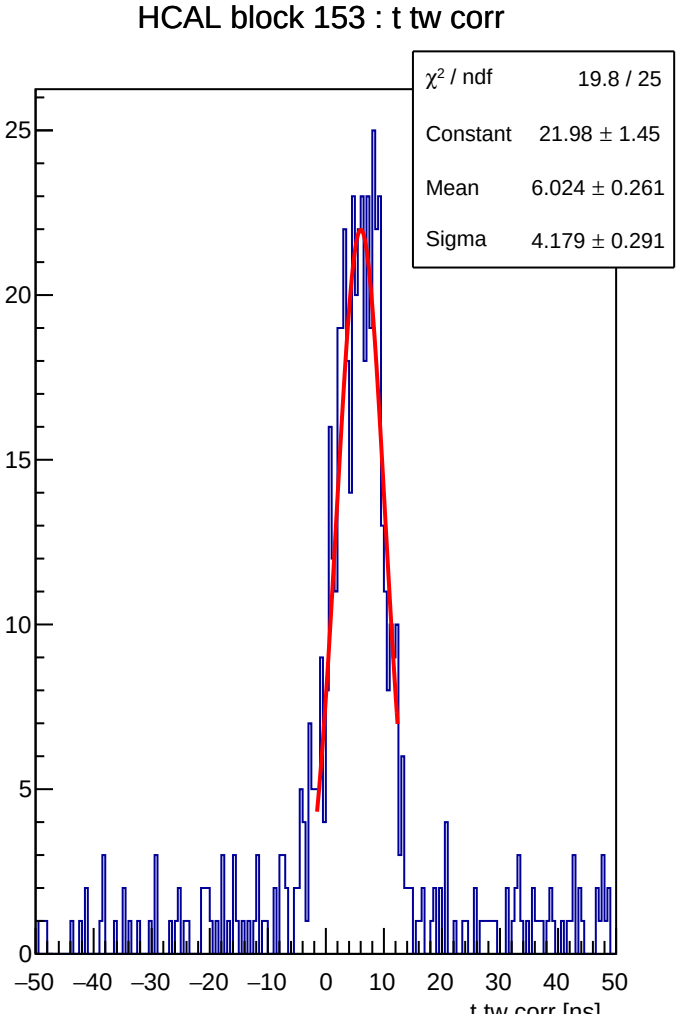

HCAL block 151 : t
χ² / ndf 19.89 / 22
Constant 23.3 ± 1.6
Mean 1.39 ± 0.23
Sigma 3.215 ± 0.197
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

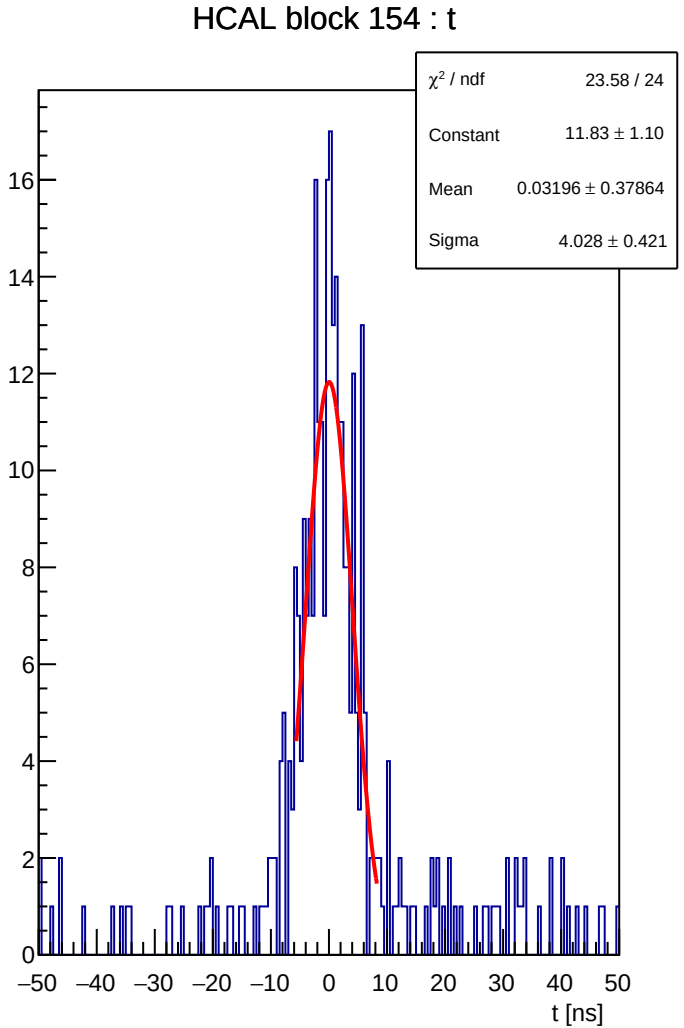

HCAL block 151 : t tw corr
χ² / ndf 29.04 / 26
Constant 18.72 ± 1.29
Mean −0.5941 ± 0.3529
Sigma 3.965 ± 0.284
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

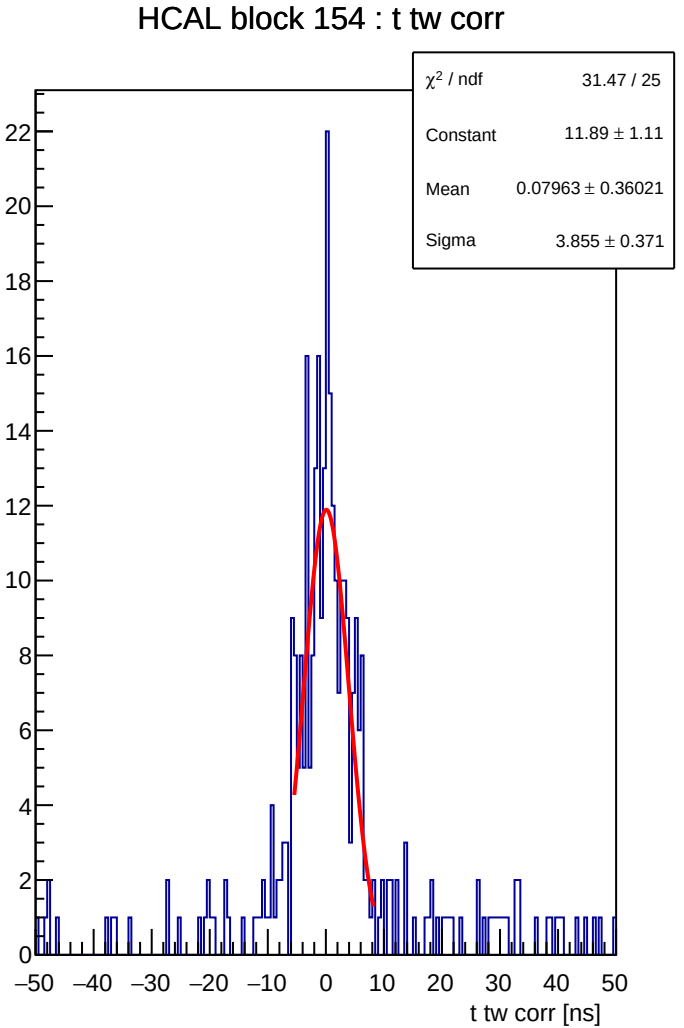

HCAL block 152 : t
χ² / ndf 36.43 / 23
Constant 18.2 ± 1.3
Mean 0.7415 ± 0.3964
Sigma 4.227 ± 0.388
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

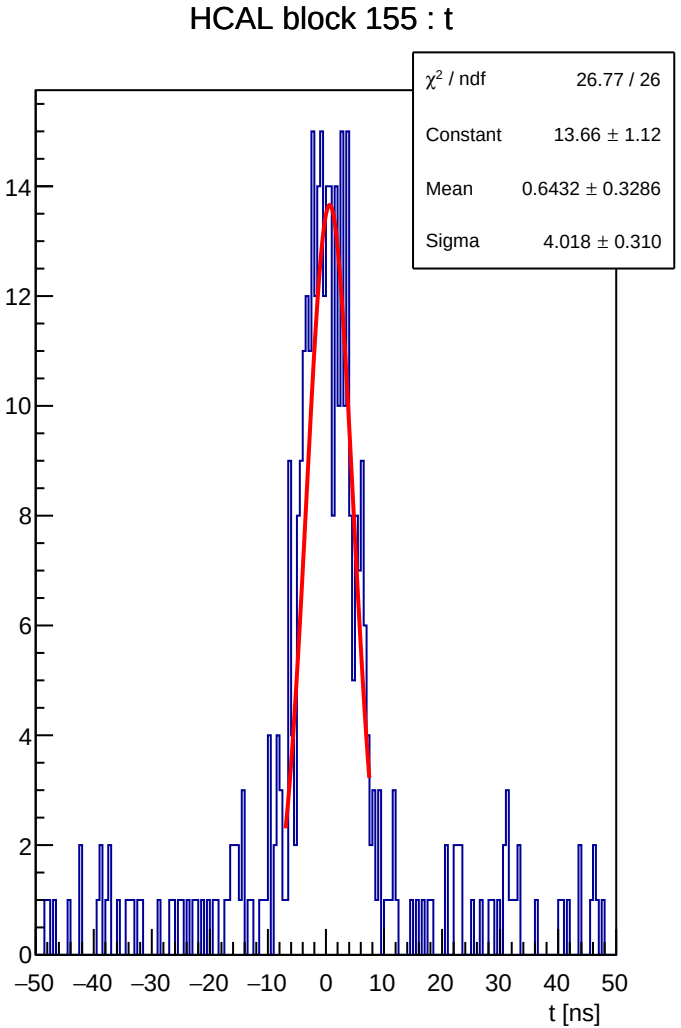

HCAL block 152 : t tw corr
χ² / ndf 18.96 / 26
Constant 17.76 ± 1.26
Mean –5.791 ± 0.403
Sigma 4.174 ± 0.347
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

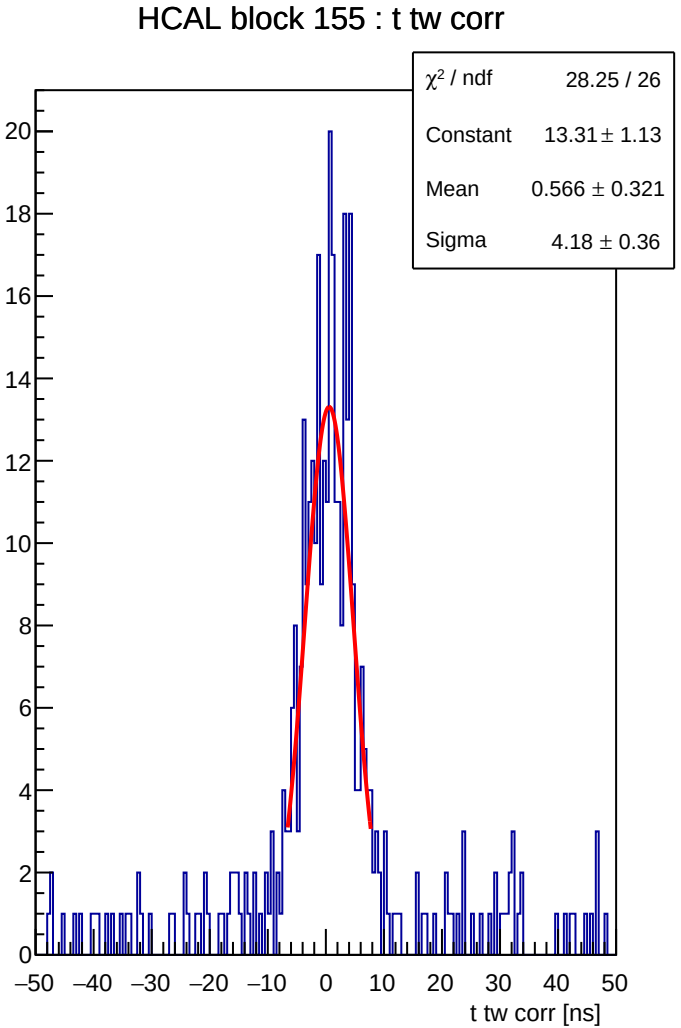

HCAL block 153 : t
χ² / ndf 20.4 / 25
Constant 21.15 ± 1.43
Mean 0.219 ± 0.308
Sigma 4.543 ± 0.378
t [ns]

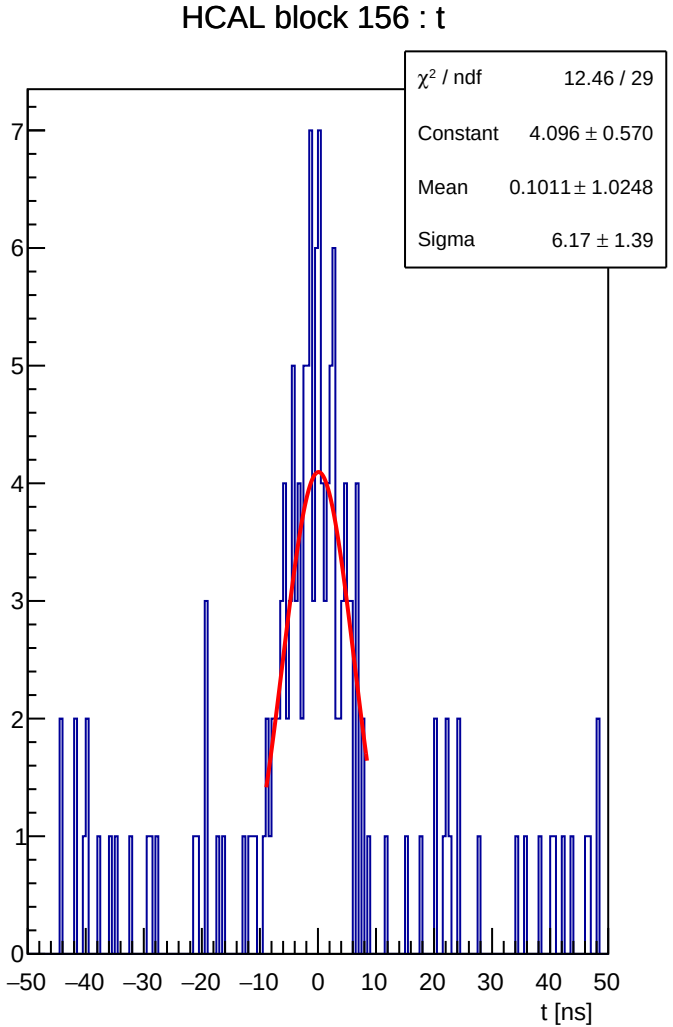

HCAL block 153 : t tw corr
χ² / ndf 19.8 / 25
Constant 21.98 ± 1.45
Mean 6.024 ± 0.261
Sigma 4.179 ± 0.291
t tw corr [ns]

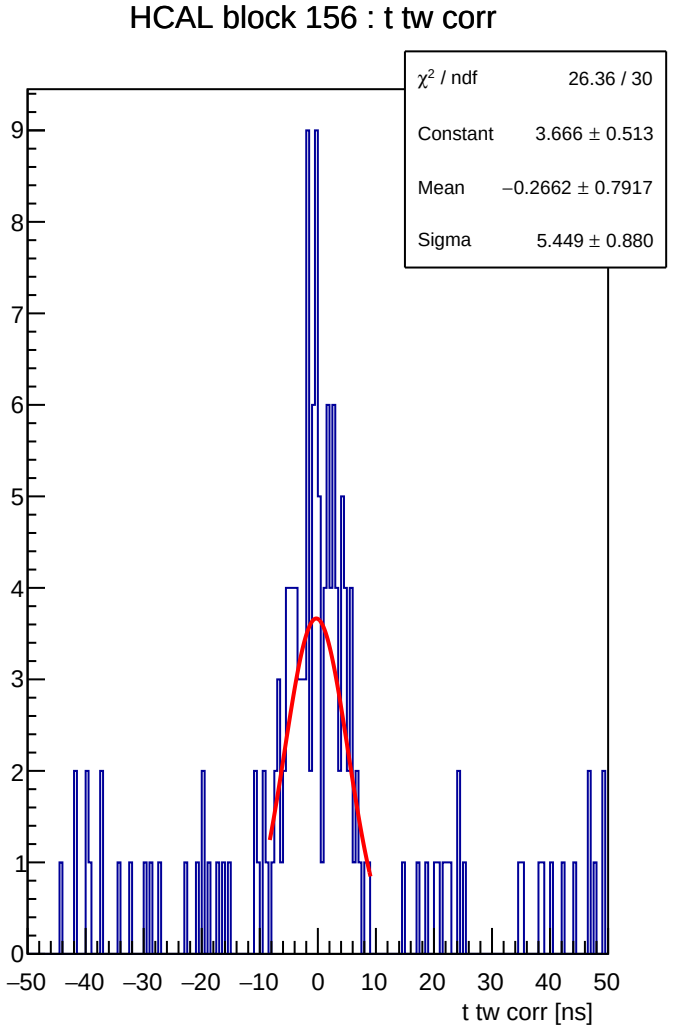

HCAL block 154 : t
χ² / ndf 23.58 / 24
Constant 11.83 ± 1.10
Mean 0.03196 ± 0.37864
Sigma 4.028 ± 0.421
t [ns]

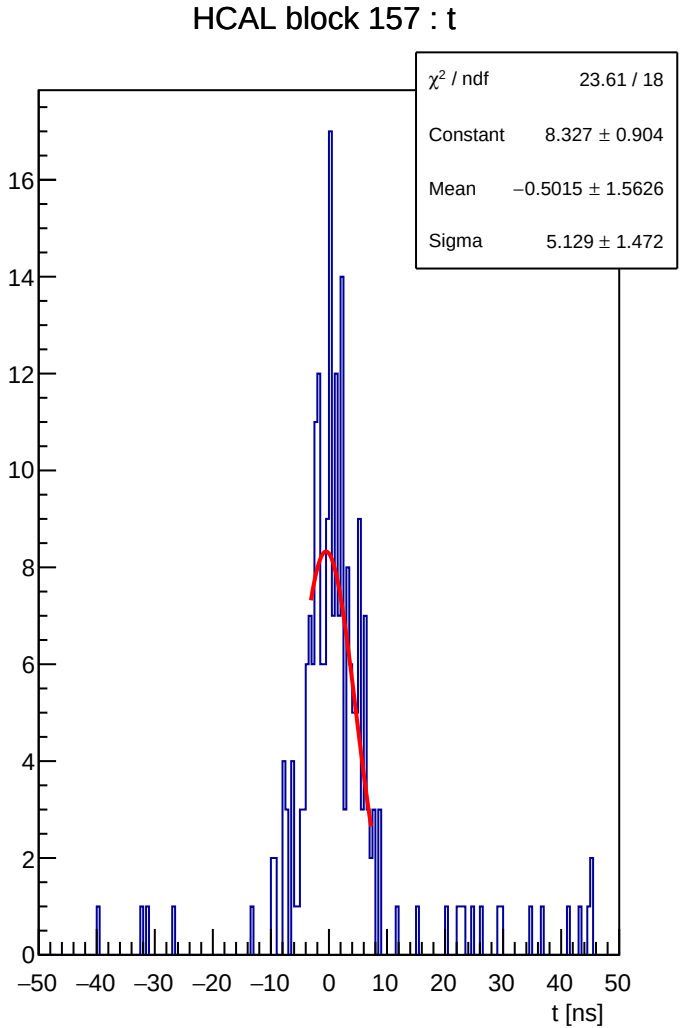

HCAL block 154 : t tw corr
χ² / ndf 31.47 / 25
Constant 11.89 ± 1.11
Mean 0.07963 ± 0.36021
Sigma 3.855 ± 0.371
t tw corr [ns]

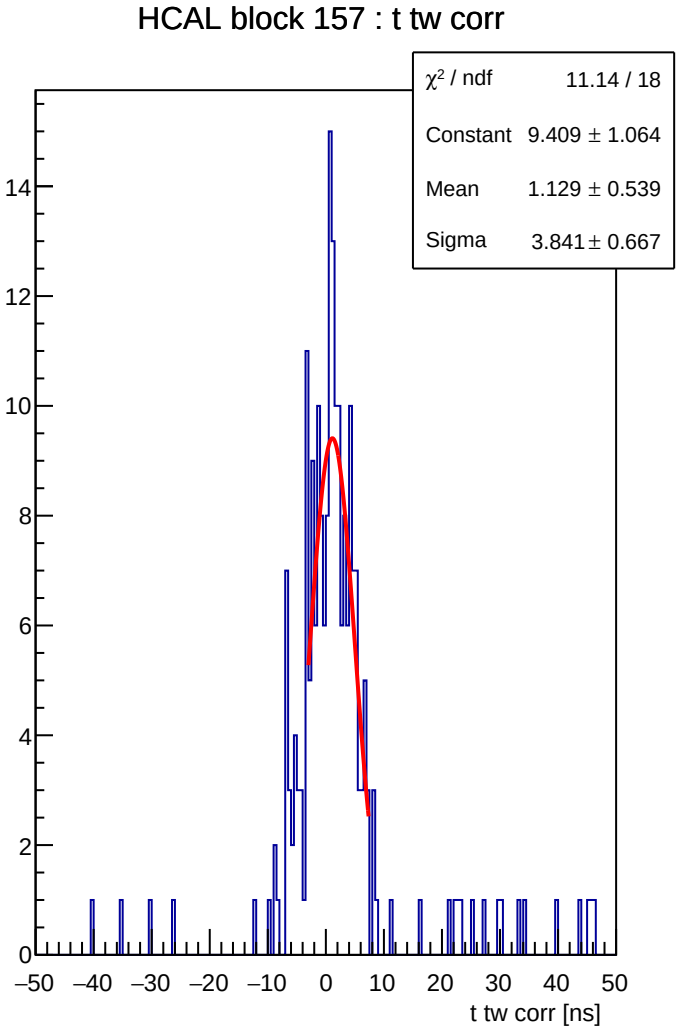

HCAL block 155 : t
χ² / ndf 26.77 / 26
Constant 13.66 ± 1.12
Mean 0.6432 ± 0.3286
Sigma 4.018 ± 0.310
t [ns]

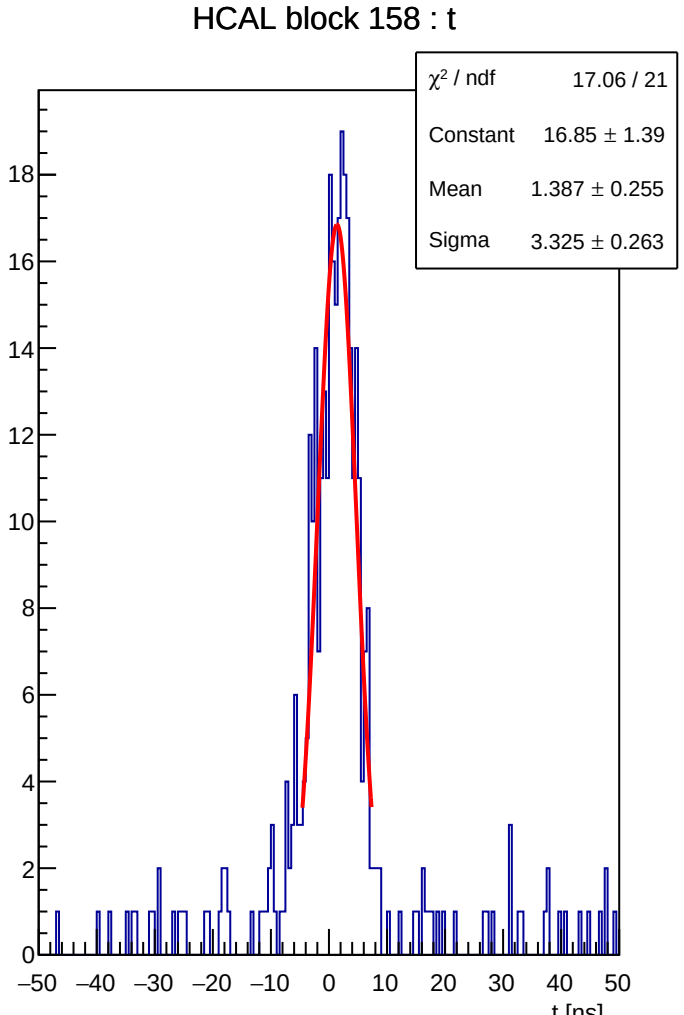

HCAL block 155 : t tw corr
χ² / ndf 28.25 / 26
Constant 13.31 ± 1.13
Mean 0.566 ± 0.321
Sigma 4.18 ± 0.36
t tw corr [ns]

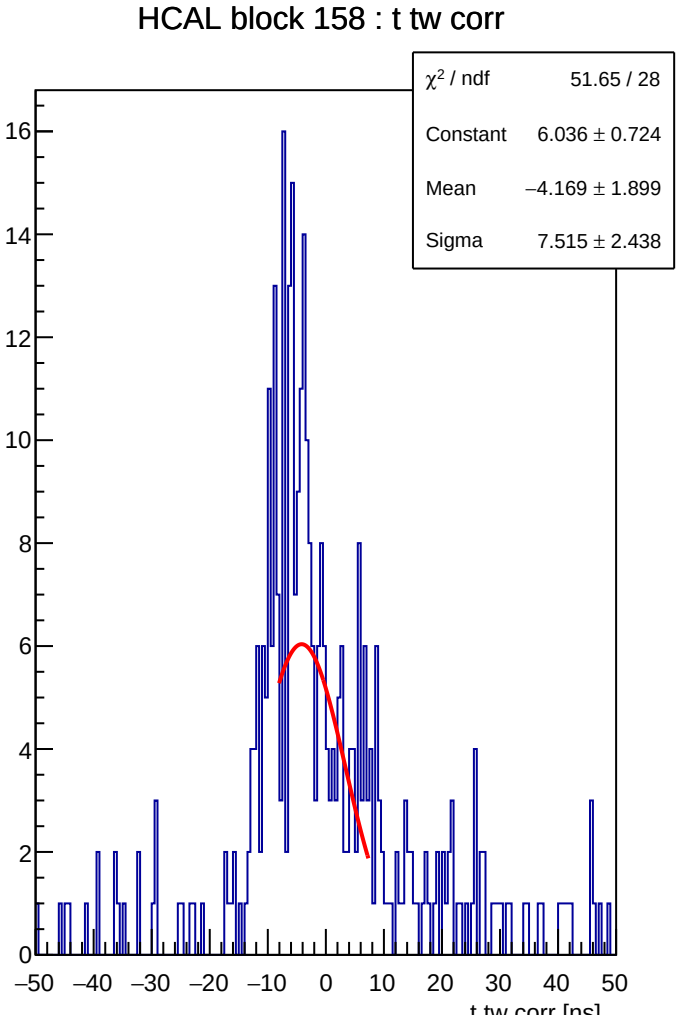

HCAL block 156 : t
χ² / ndf 12.46 / 29
Constant 4.096 ± 0.570
Mean 0.1011 ± 1.0248
Sigma 6.17 ± 1.39
t [ns]

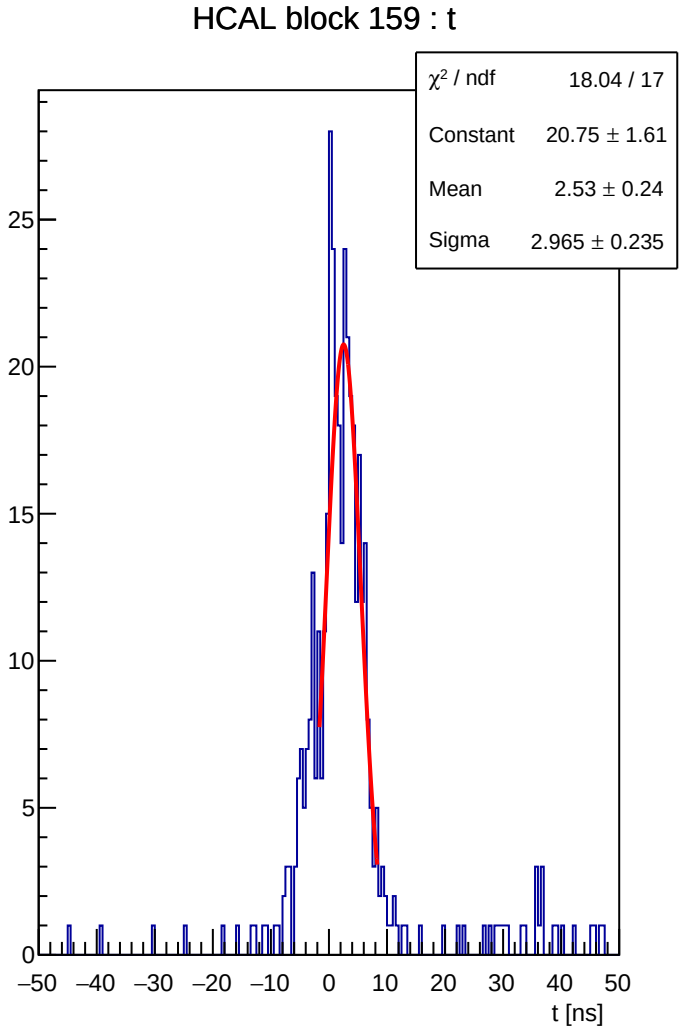

HCAL block 156 : t tw corr
χ² / ndf 26.36 / 30
Constant 3.666 ± 0.513
Mean −0.2662 ± 0.7917
Sigma 5.449 ± 0.880
t tw corr [ns]

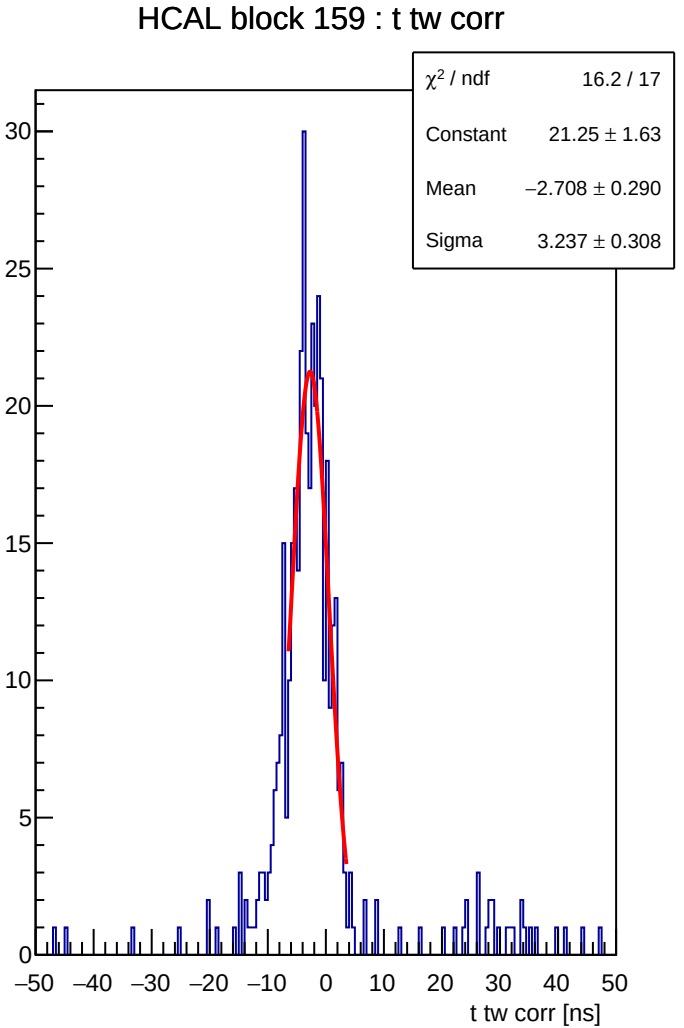

HCAL block 157 : t
χ² / ndf 23.61 / 18
Constant 8.327 ± 0.904
Mean −0.5015 ± 1.5626
Sigma 5.129 ± 1.472
t [ns]

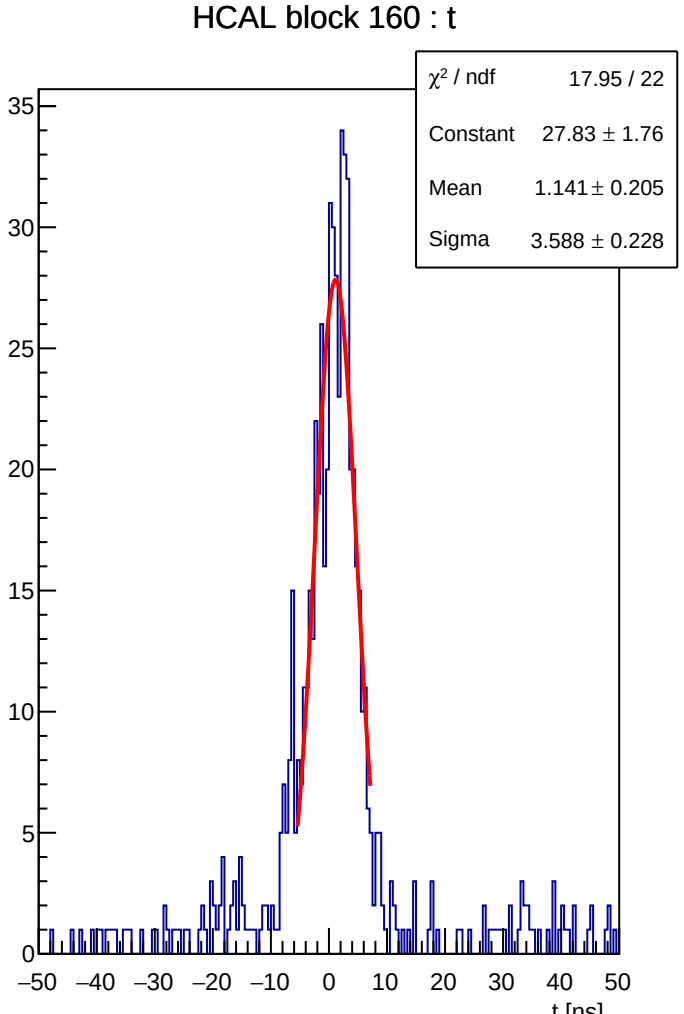

HCAL block 157 : t tw corr
χ² / ndf 11.14 / 18
Constant 9.409 ± 1.064
Mean 1.129 ± 0.539
Sigma 3.841 ± 0.667
t tw corr [ns]

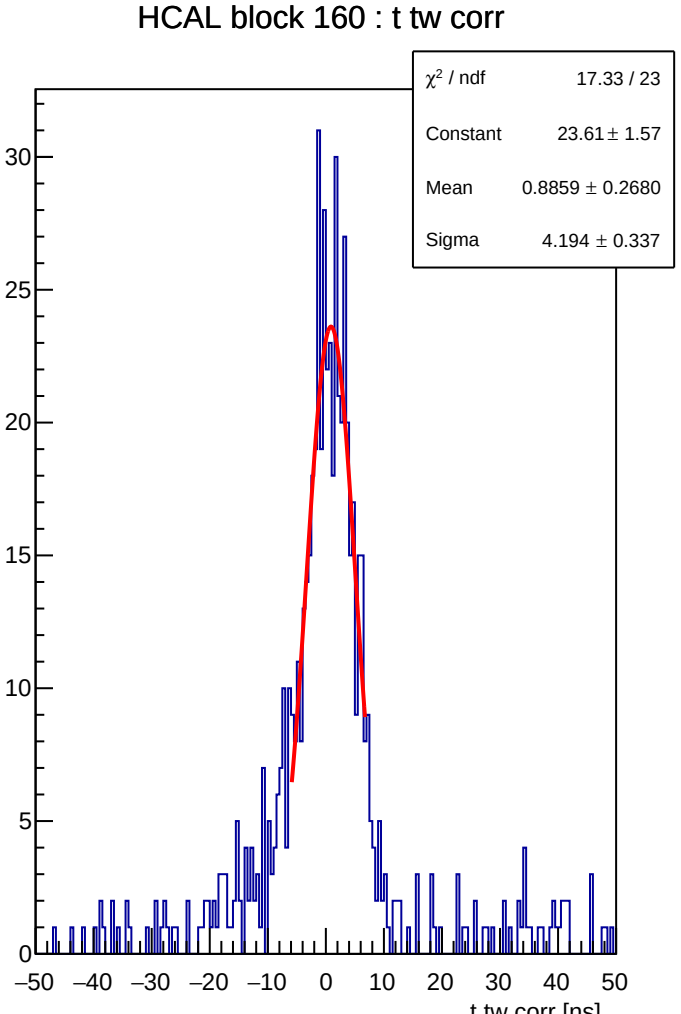

HCAL block 158 : t
χ² / ndf 17.06 / 21
Constant 16.85 ± 1.39
Mean 1.387 ± 0.255
Sigma 3.325 ± 0.263
t [ns]

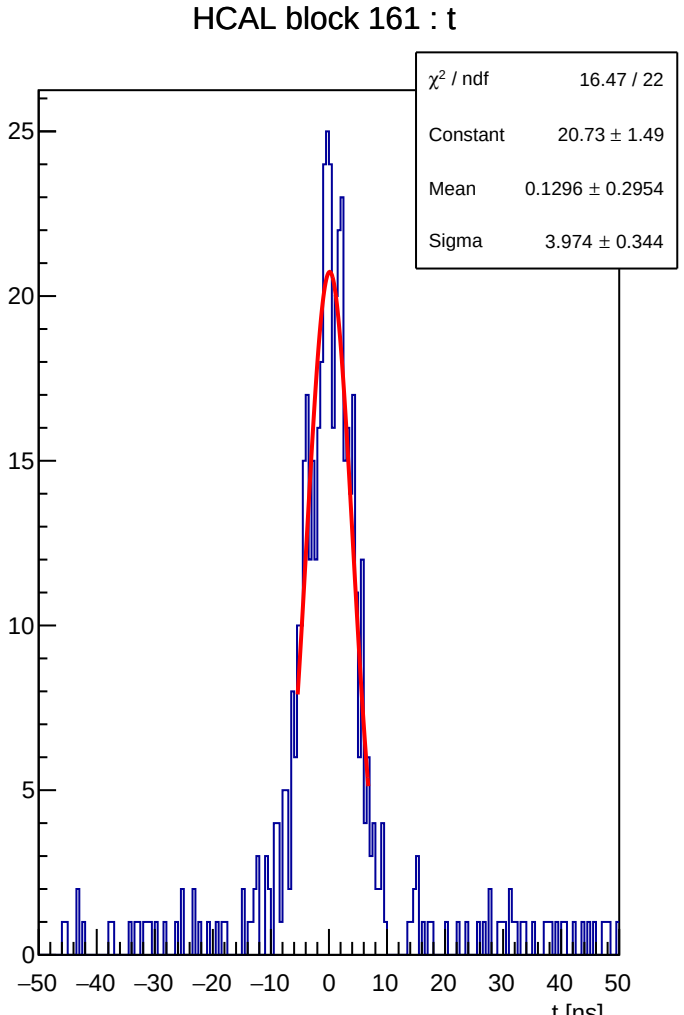

HCAL block 158 : t tw corr
χ² / ndf 51.65 / 28
Constant 6.036 ± 0.724
Mean −4.169 ± 1.899
Sigma 7.515 ± 2.438
t tw corr [ns]

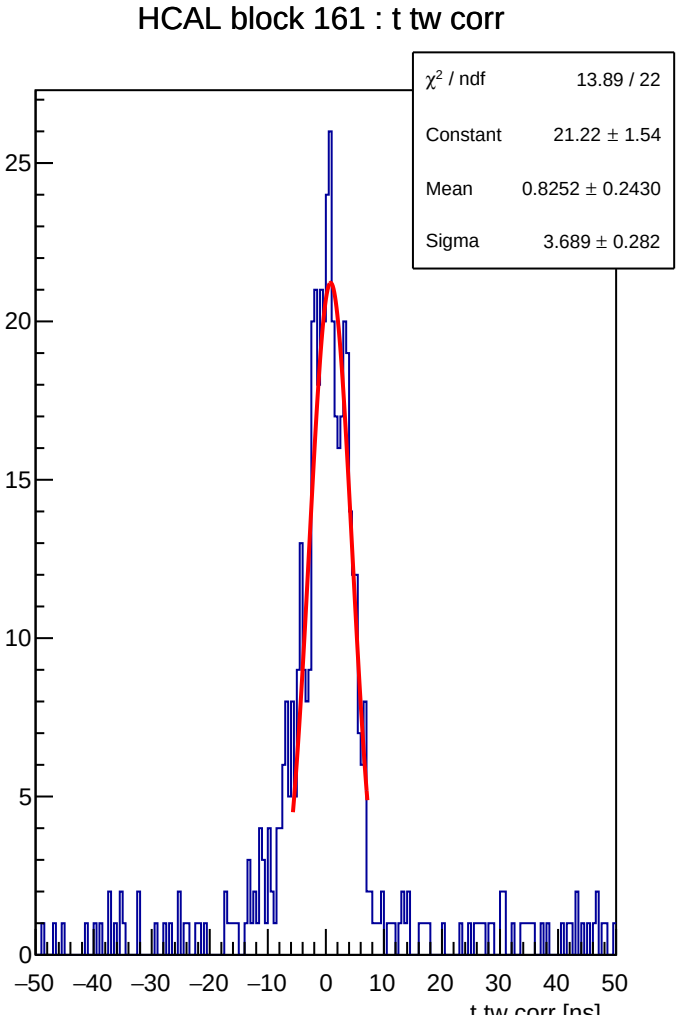

HCAL block 159 : t
χ² / ndf 18.04 / 17
Constant 20.75 ± 1.61
Mean 2.53 ± 0.24
Sigma 2.965 ± 0.235
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

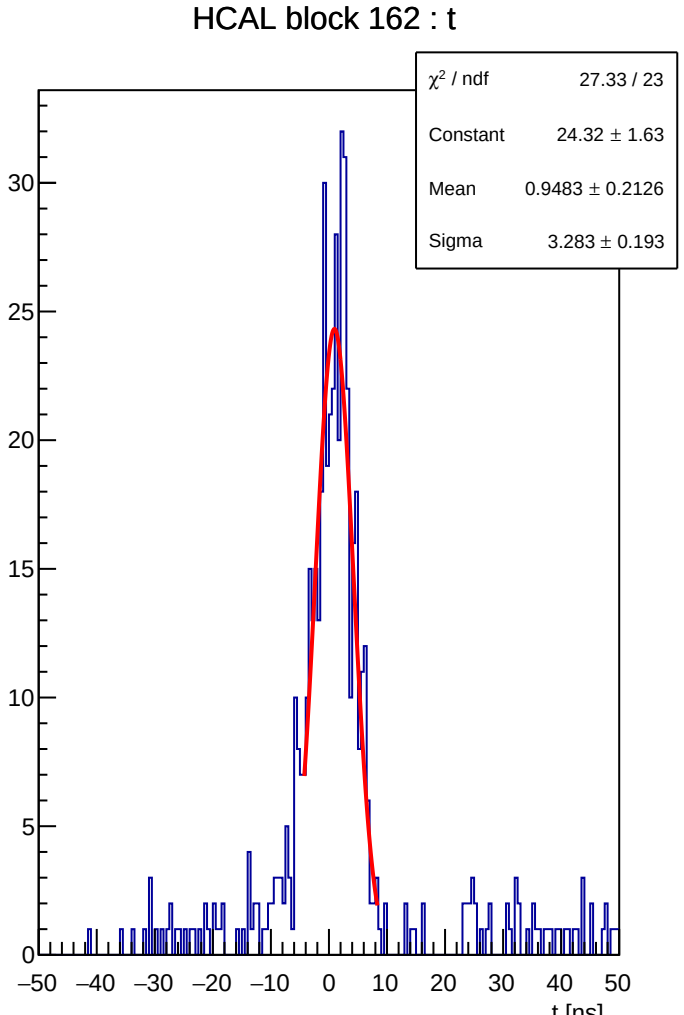

HCAL block 159 : t tw corr
χ² / ndf 16.2 / 17
Constant 21.25 ± 1.63
Mean –2.708 ± 0.290
Sigma 3.237 ± 0.308
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

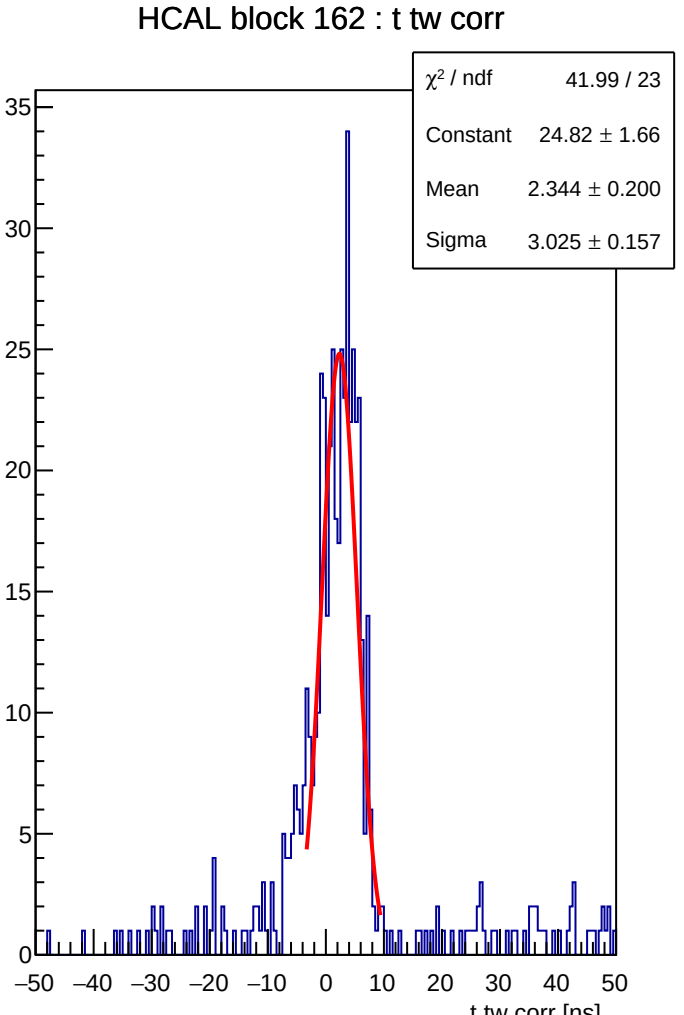

HCAL block 160 : t
χ² / ndf 17.95 / 22
Constant 27.83 ± 1.76
Mean 1.141 ± 0.205
Sigma 3.588 ± 0.228
35
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

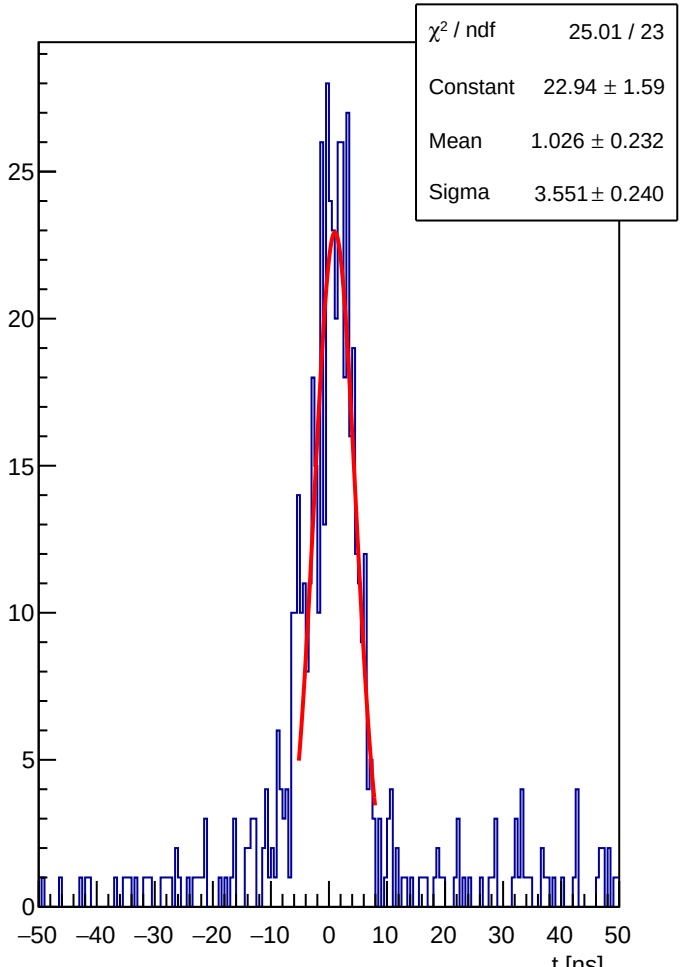

HCAL block 160 : t tw corr
χ² / ndf 17.33 / 23
Constant 23.61 ± 1.57
Mean 0.8859 ± 0.2680
Sigma 4.194 ± 0.337
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

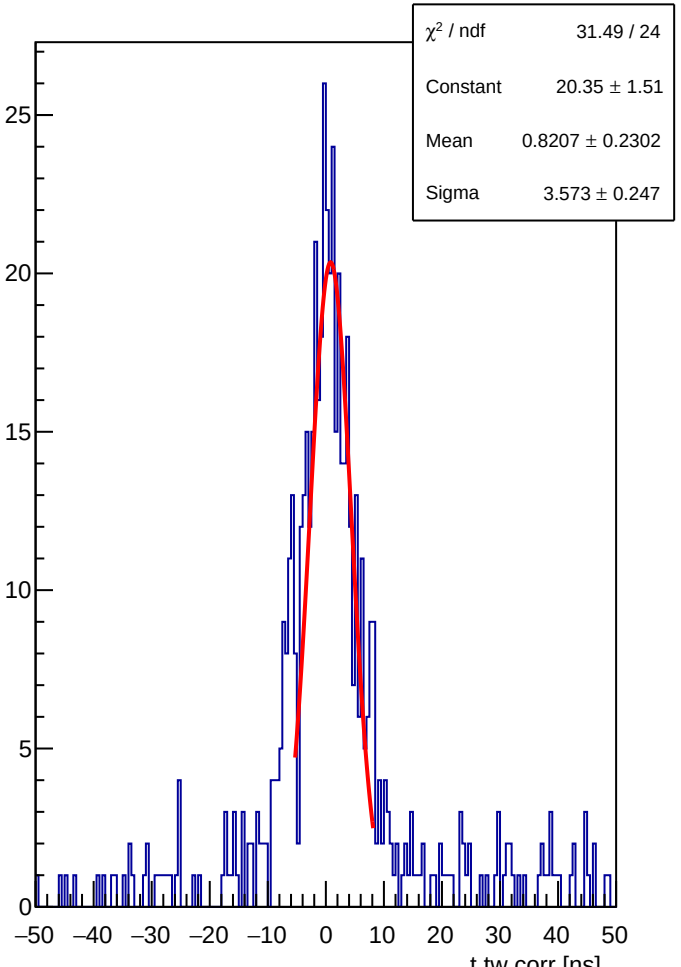

HCAL block 161 : t
χ² / ndf 16.47 / 22
Constant 20.73 ± 1.49
Mean 0.1296 ± 0.2954
Sigma 3.974 ± 0.344
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

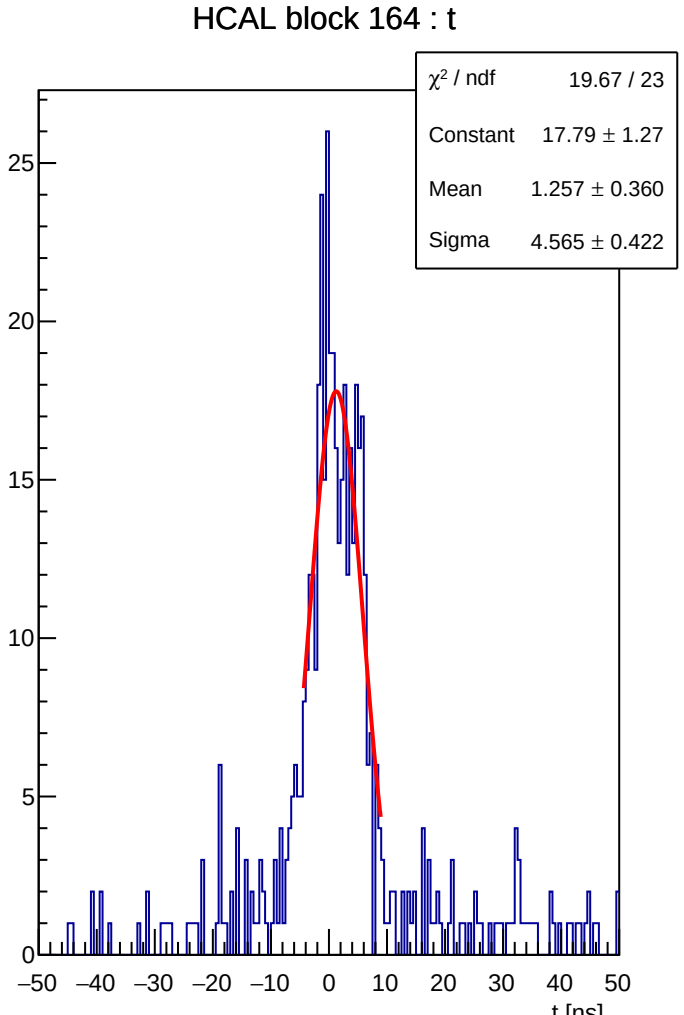

HCAL block 161 : t tw corr
χ² / ndf 13.89 / 22
Constant 21.22 ± 1.54
Mean 0.8252 ± 0.2430
Sigma 3.689 ± 0.282
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

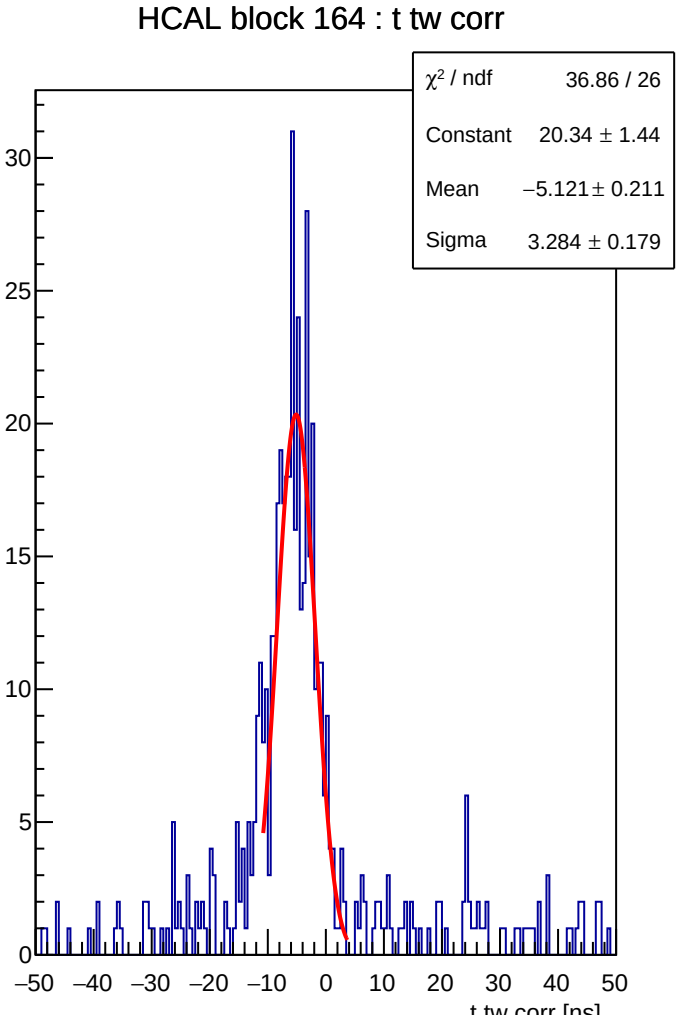

HCAL block 162 : t
χ² / ndf 27.33 / 23
Constant 24.32 ± 1.63
Mean 0.9483 ± 0.2126
Sigma 3.283 ± 0.193
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

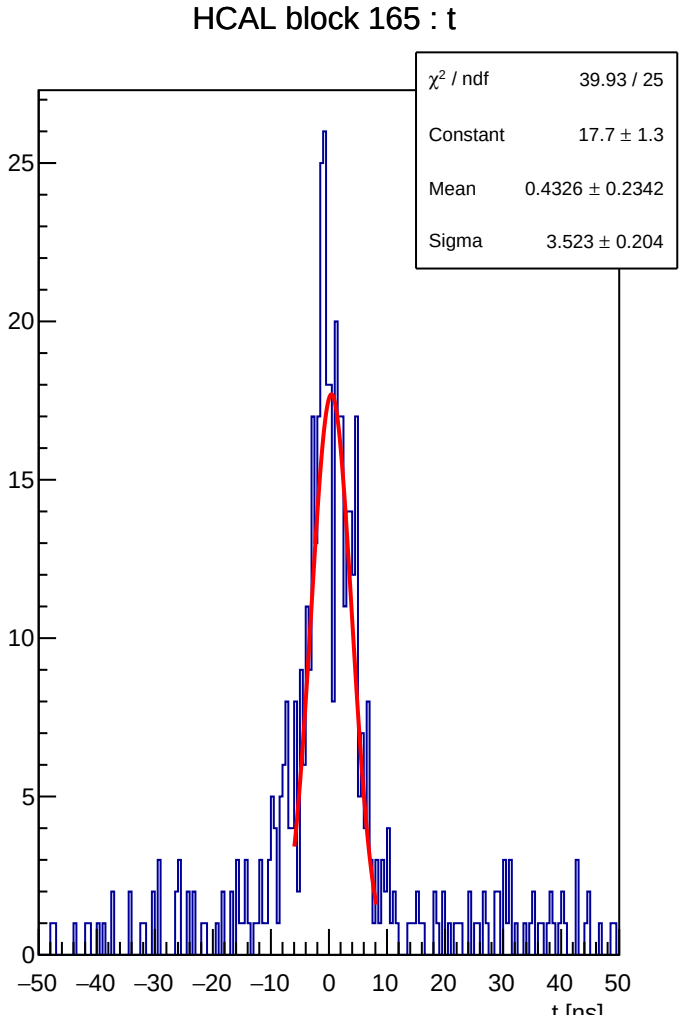

HCAL block 162 : t tw corr
χ² / ndf 41.99 / 23
Constant 24.82 ± 1.66
Mean 2.344 ± 0.200
Sigma 3.025 ± 0.157
35
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

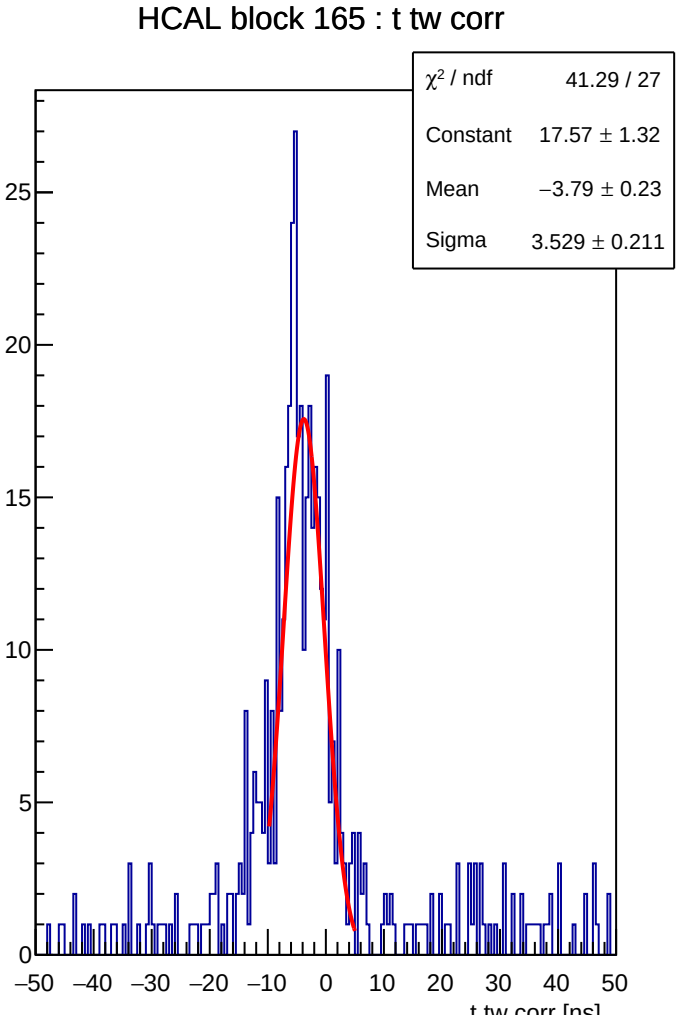

HCAL block 163 : t
χ² / ndf 25.01 / 23
Constant 22.94 ± 1.59
Mean 1.026 ± 0.232
Sigma 3.551 ± 0.240
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

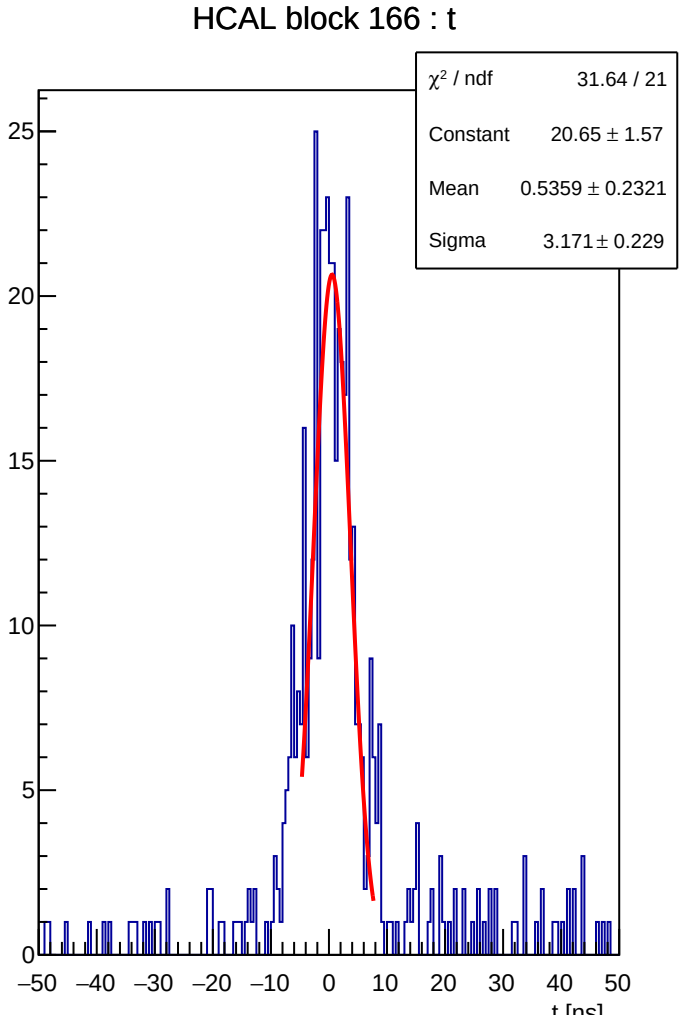

HCAL block 163 : t tw corr
χ² / ndf 31.49 / 24
Constant 20.35 ± 1.51
Mean 0.8207 ± 0.2302
Sigma 3.573 ± 0.247
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

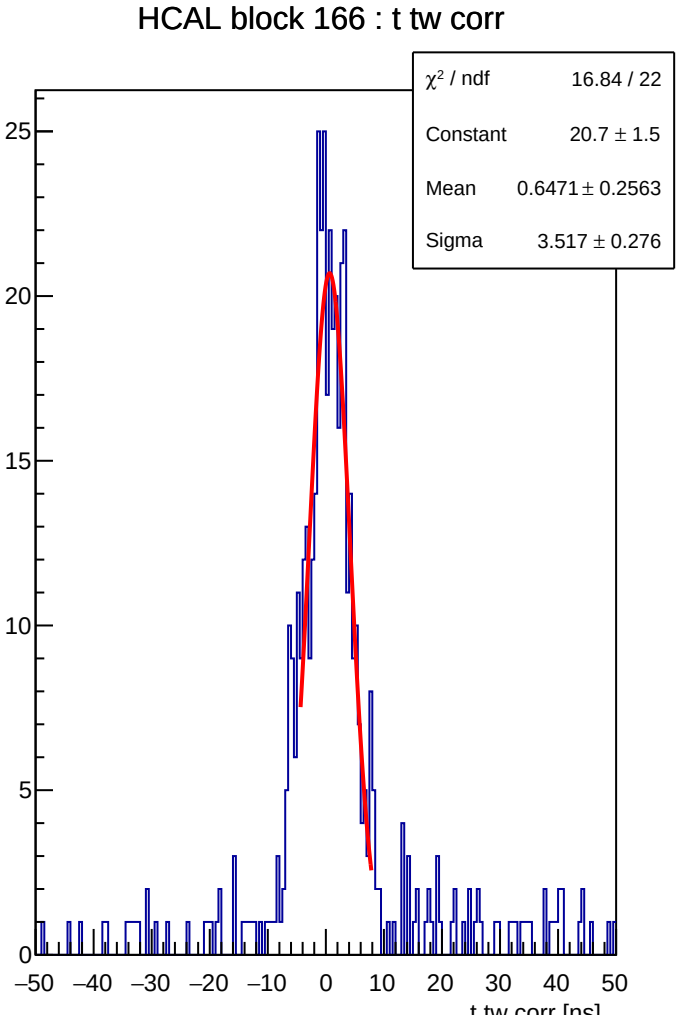

HCAL block 164 : t
χ² / ndf 19.67 / 23
Constant 17.79 ± 1.27
Mean 1.257 ± 0.360
Sigma 4.565 ± 0.422
t [ns]

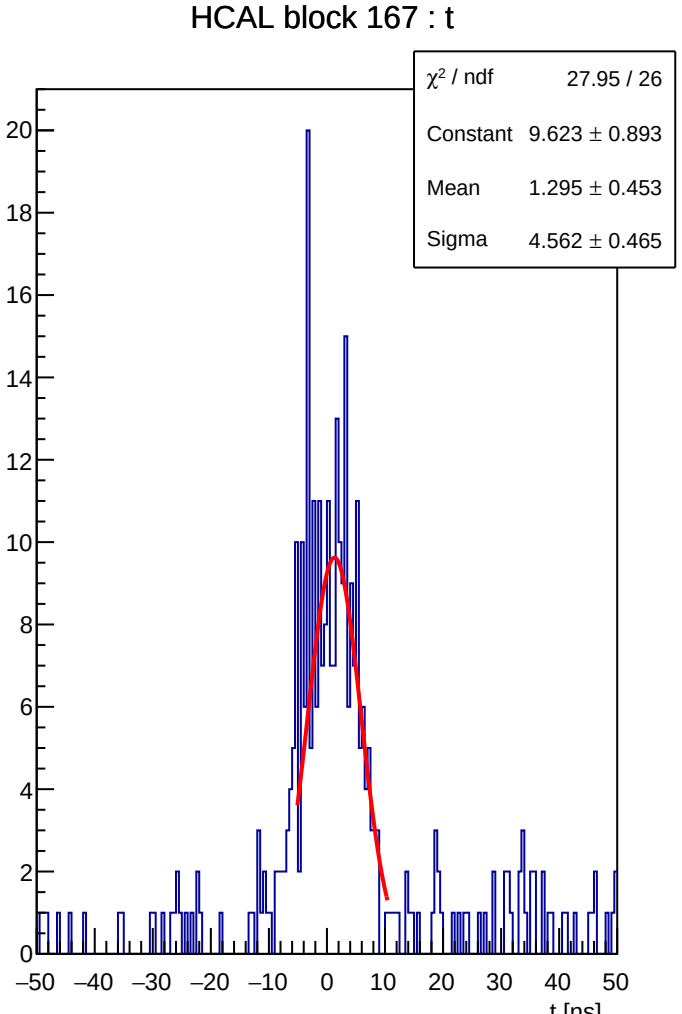

HCAL block 164 : t tw corr
χ² / ndf 36.86 / 26
Constant 20.34 ± 1.44
Mean −5.121 ± 0.211
Sigma 3.284 ± 0.179
t tw corr [ns]

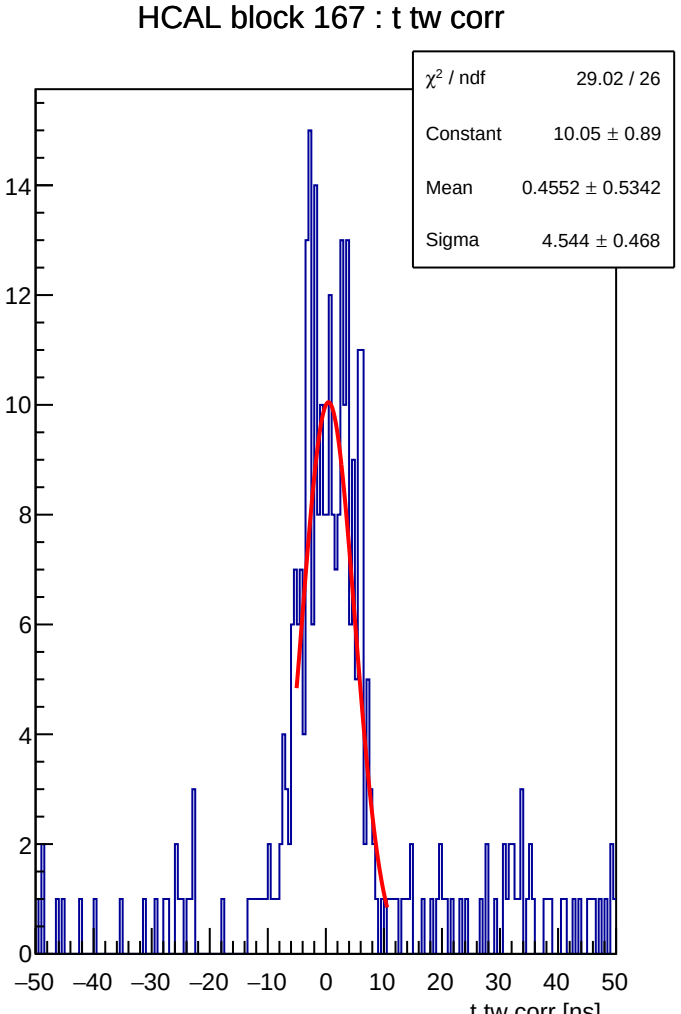

HCAL block 165 : t
χ² / ndf 39.93 / 25
Constant 17.7 ± 1.3
Mean 0.4326 ± 0.2342
Sigma 3.523 ± 0.204
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

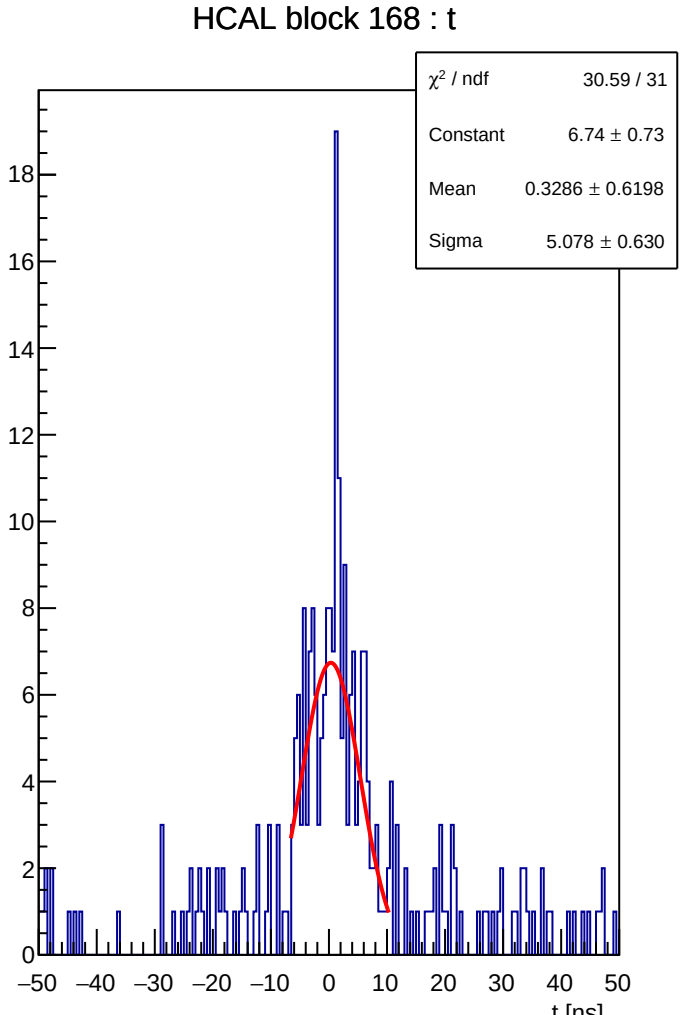

HCAL block 165 : t tw corr
χ² / ndf 41.29 / 27
Constant 17.57 ± 1.32
Mean –3.79 ± 0.23
Sigma 3.529 ± 0.211
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

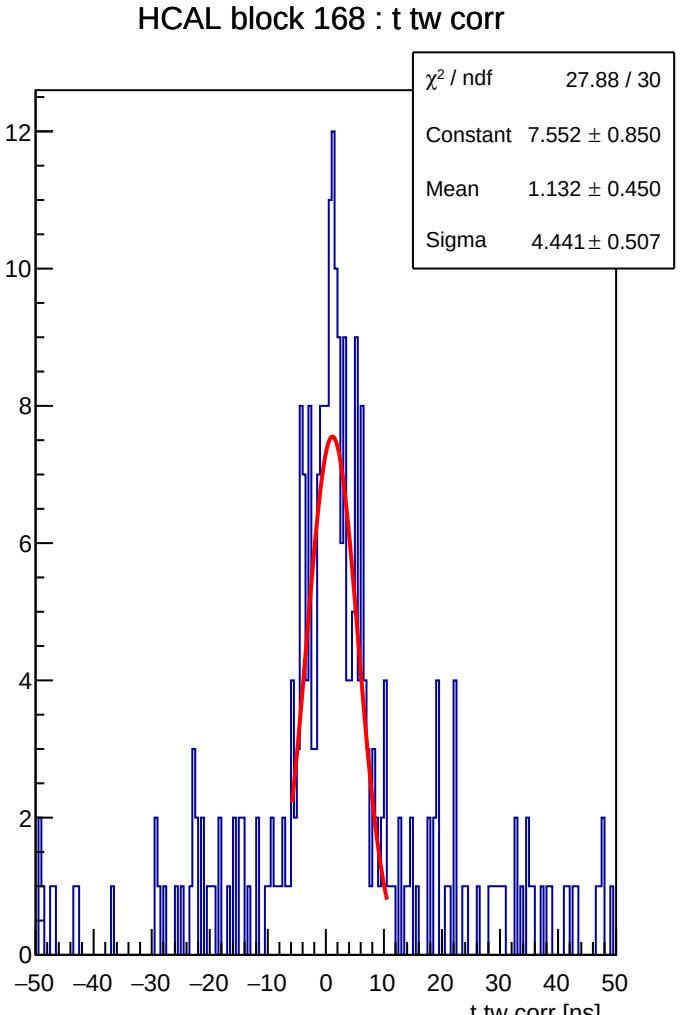

HCAL block 166 : t
χ² / ndf 31.64 / 21
Constant 20.65 ± 1.57
Mean 0.5359 ± 0.2321
Sigma 3.171 ± 0.229
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

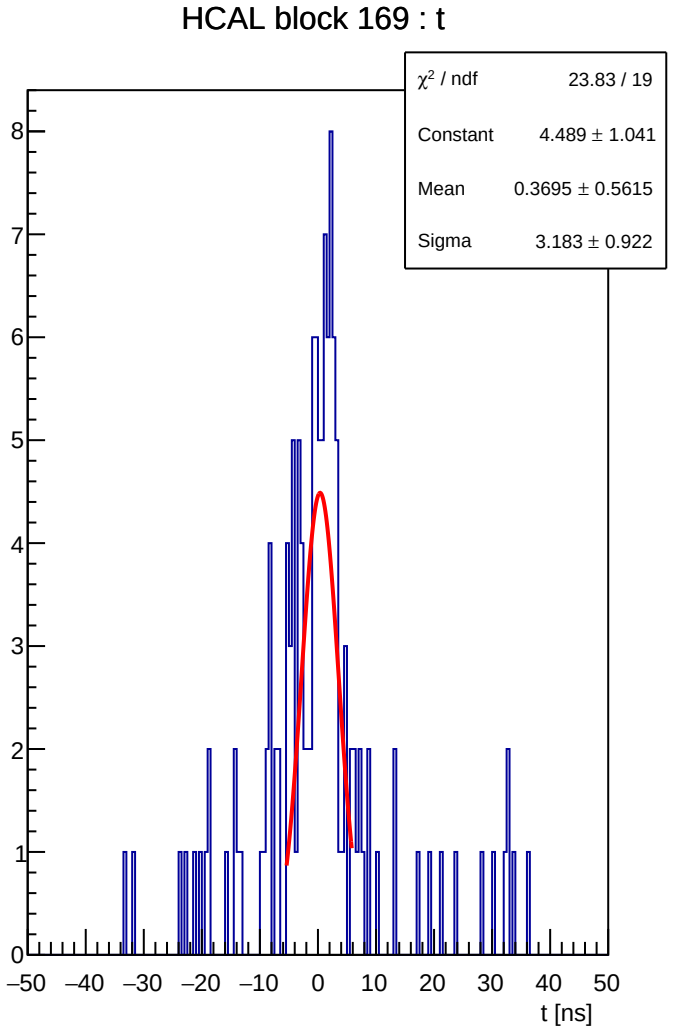

HCAL block 166 : t tw corr
χ² / ndf 16.84 / 22
Constant 20.7 ± 1.5
Mean 0.6471 ± 0.2563
Sigma 3.517 ± 0.276
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

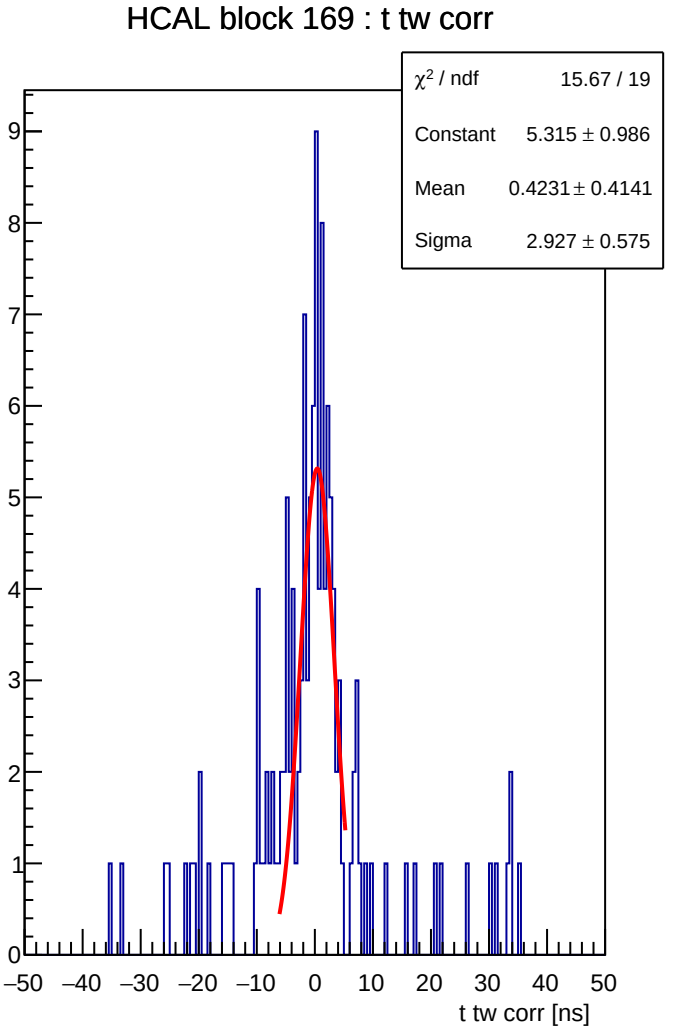

HCAL block 167 : t
χ² / ndf 27.95 / 26
Constant 9.623 ± 0.893
Mean 1.295 ± 0.453
Sigma 4.562 ± 0.465
t [ns]

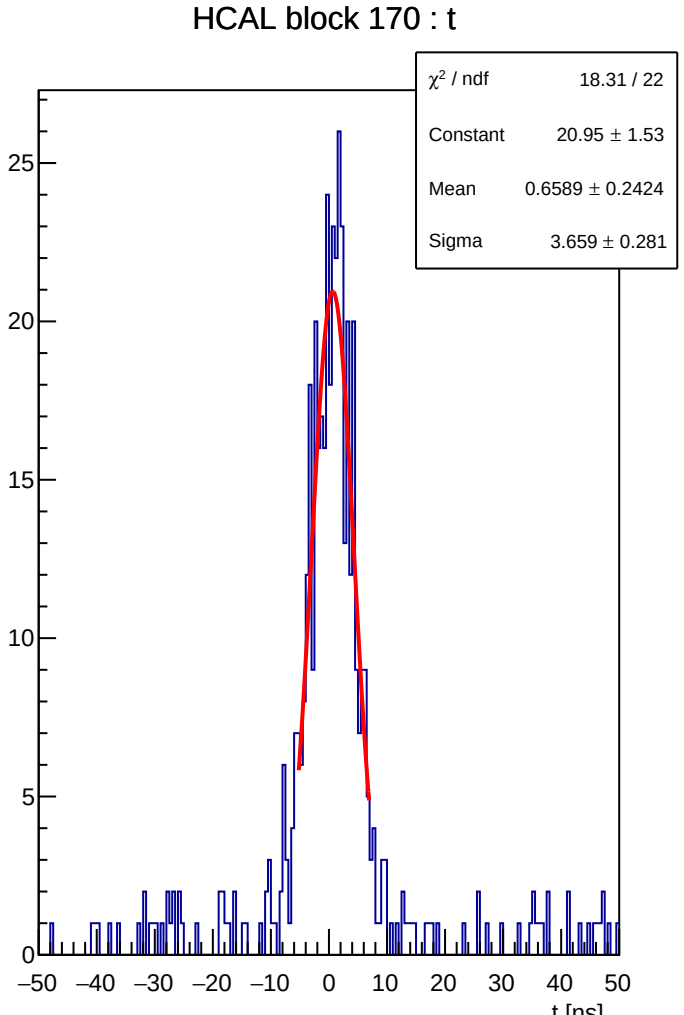

HCAL block 167 : t tw corr
χ² / ndf 29.02 / 26
Constant 10.05 ± 0.89
Mean 0.4552 ± 0.5342
Sigma 4.544 ± 0.468
t tw corr [ns]

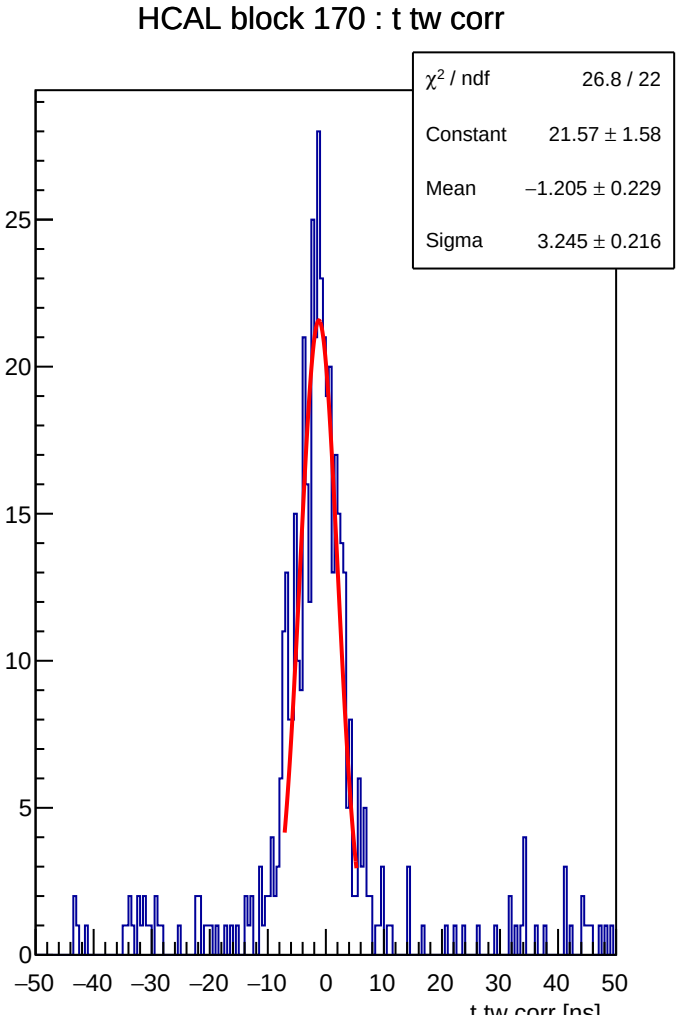

HCAL block 168 : t
χ² / ndf 30.59 / 31
Constant 6.74 ± 0.73
Mean 0.3286 ± 0.6198
Sigma 5.078 ± 0.630
t [ns]

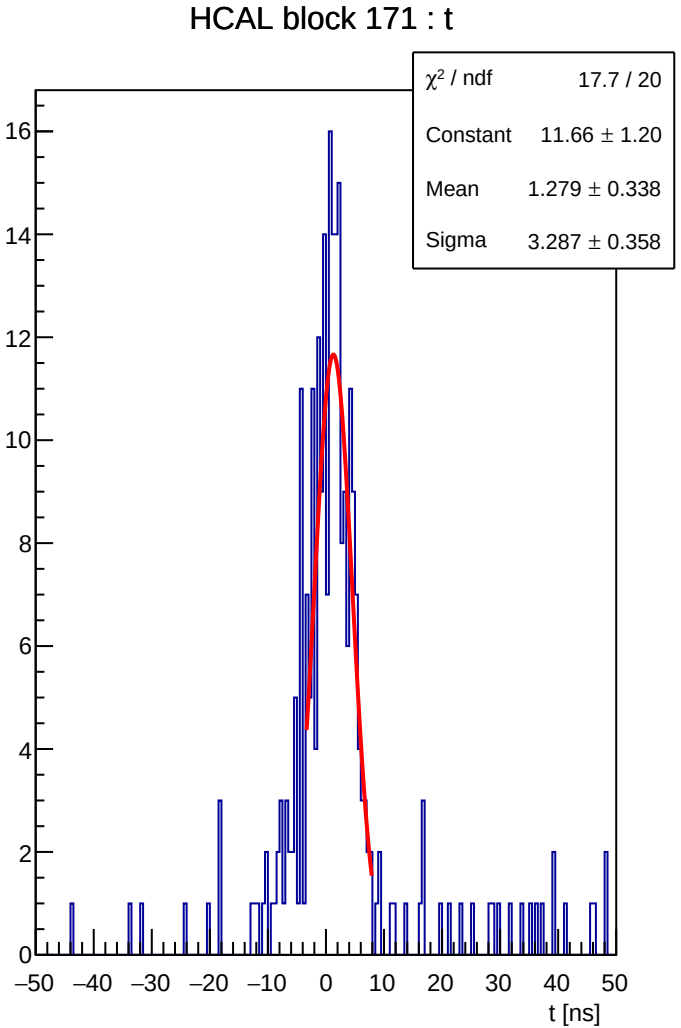

HCAL block 168 : t tw corr
χ² / ndf 27.88 / 30
Constant 7.552 ± 0.850
Mean 1.132 ± 0.450
Sigma 4.441 ± 0.507
t tw corr [ns]

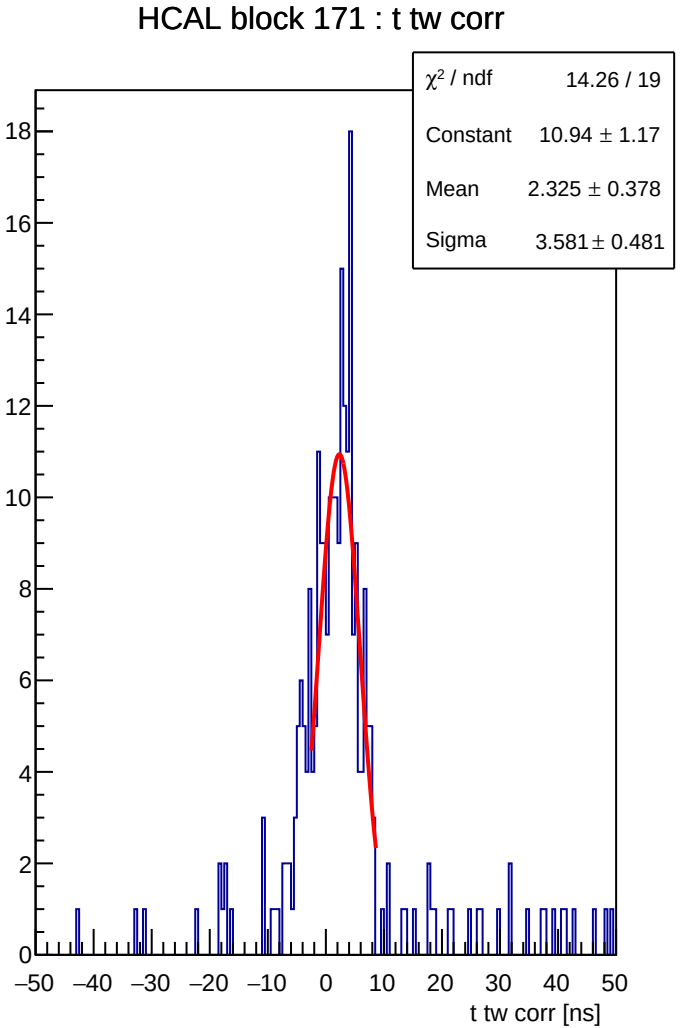

HCAL block 169 : t
χ² / ndf 23.83 / 19
Constant 4.489 ± 1.041
Mean 0.3695 ± 0.5615
Sigma 3.183 ± 0.922
t [ns]

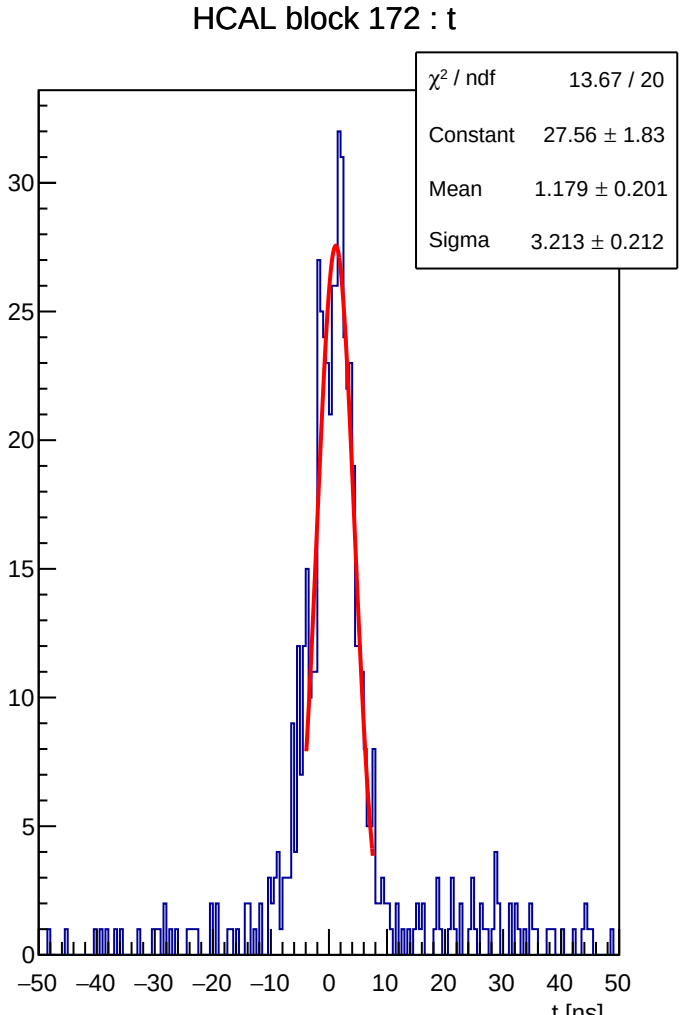

HCAL block 169 : t tw corr
χ² / ndf 15.67 / 19
Constant 5.315 ± 0.986
Mean 0.4231 ± 0.4141
Sigma 2.927 ± 0.575
t tw corr [ns]

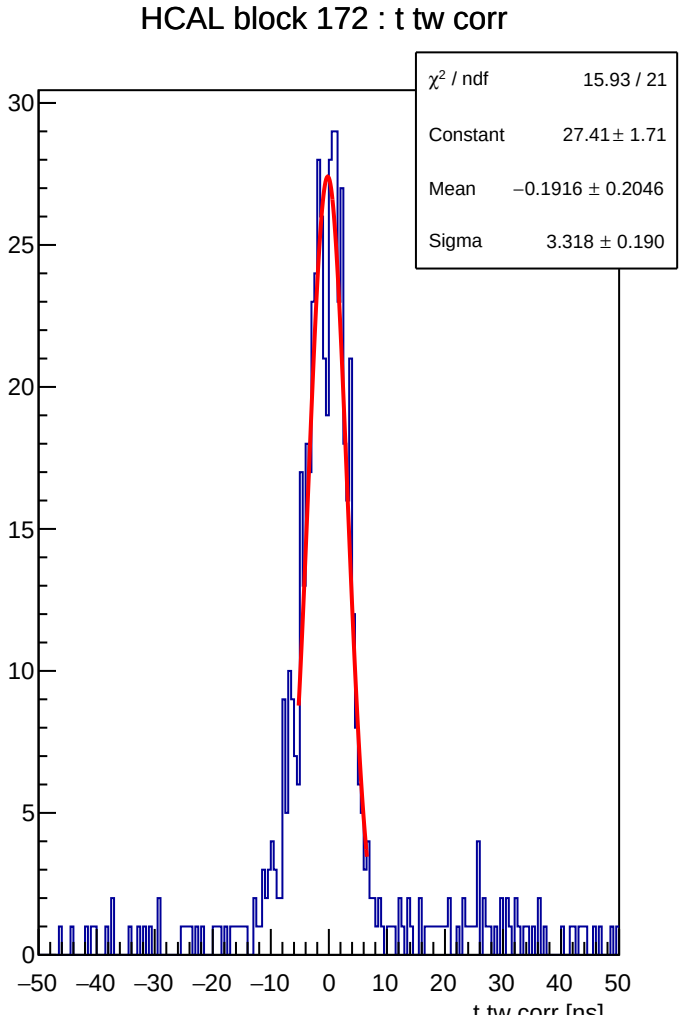

HCAL block 170 : t
χ² / ndf 18.31 / 22
Constant 20.95 ± 1.53
Mean 0.6589 ± 0.2424
Sigma 3.659 ± 0.281
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

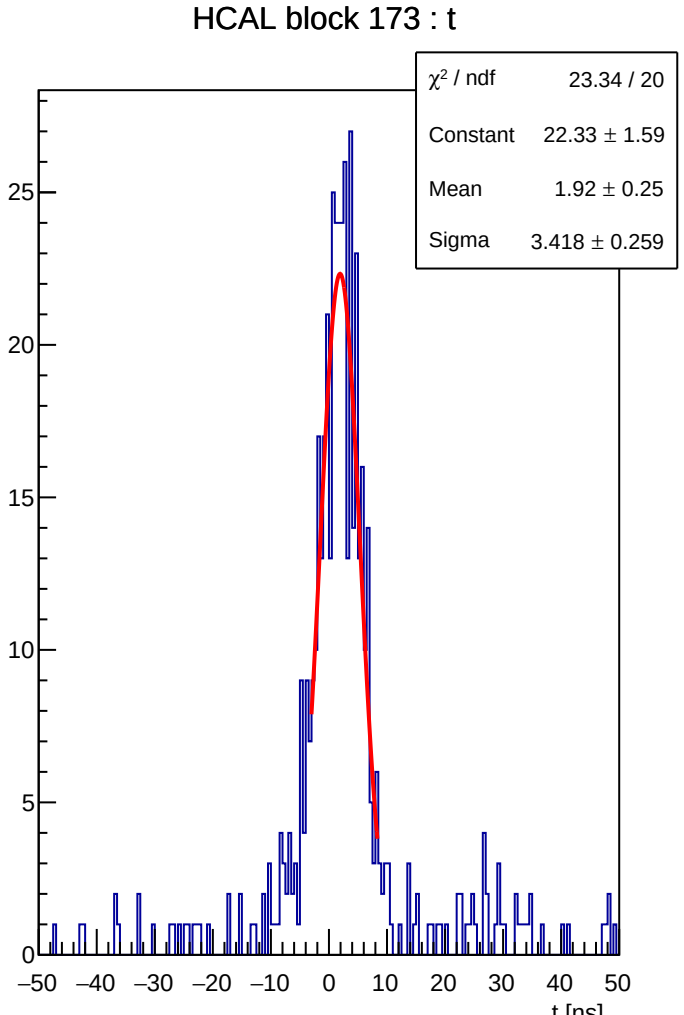

HCAL block 170 : t tw corr
χ² / ndf 26.8 / 22
Constant 21.57 ± 1.58
Mean –1.205 ± 0.229
Sigma 3.245 ± 0.216
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

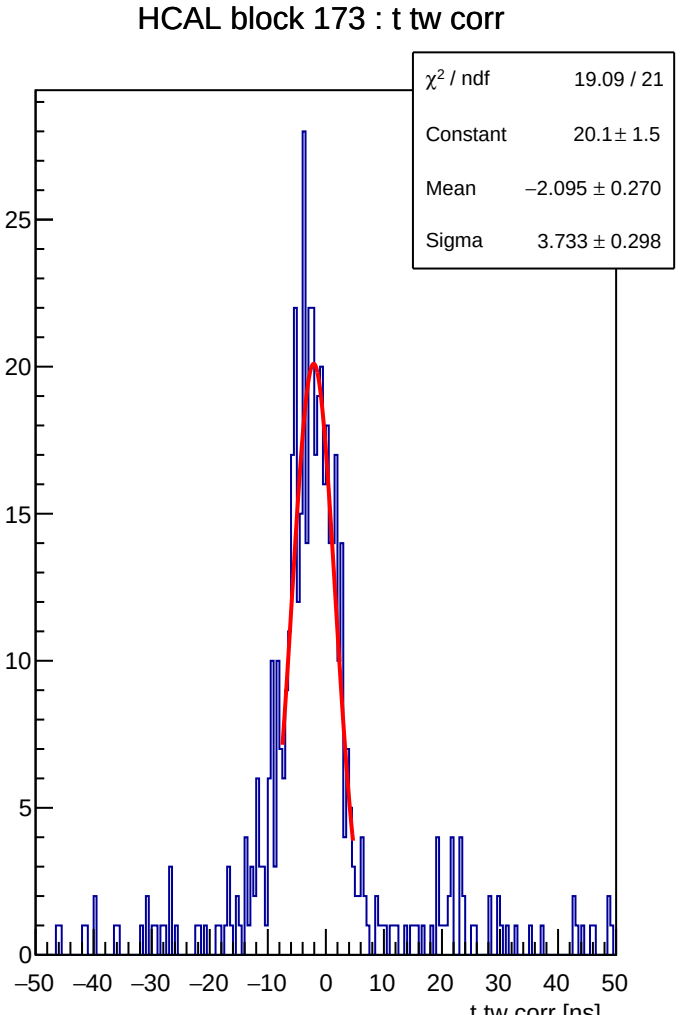

HCAL block 171 : t
χ² / ndf 17.7 / 20
Constant 11.66 ± 1.20
Mean 1.279 ± 0.338
Sigma 3.287 ± 0.358
t [ns]

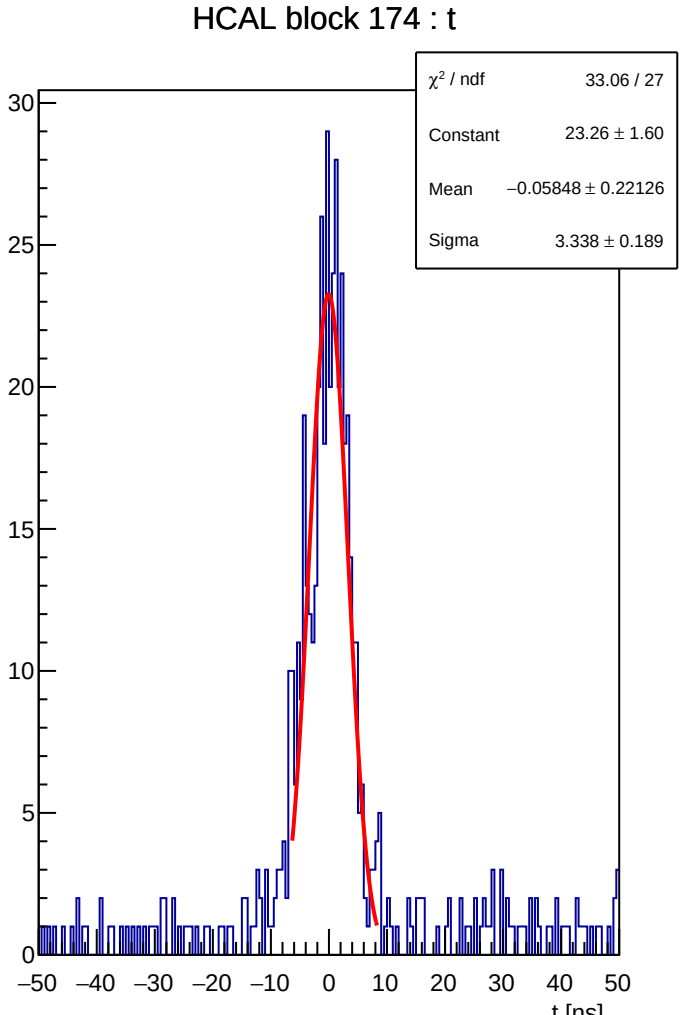

HCAL block 171 : t tw corr
χ² / ndf 14.26 / 19
Constant 10.94 ± 1.17
Mean 2.325 ± 0.378
Sigma 3.581 ± 0.481
t tw corr [ns]

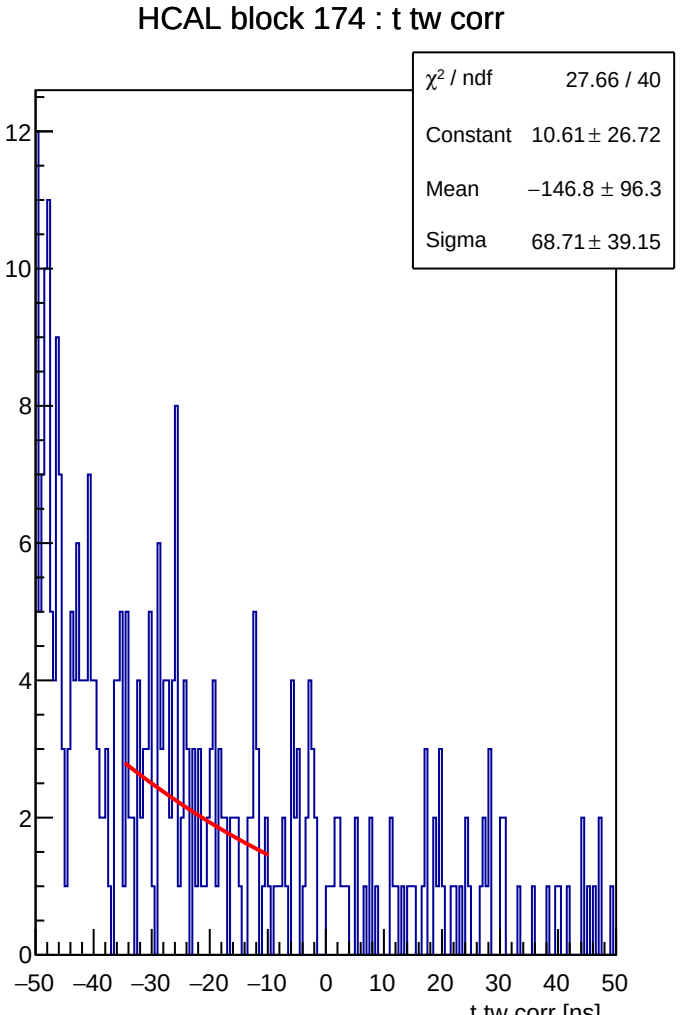

HCAL block 172 : t
χ² / ndf 13.67 / 20
Constant 27.56 ± 1.83
Mean 1.179 ± 0.201
Sigma 3.213 ± 0.212
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

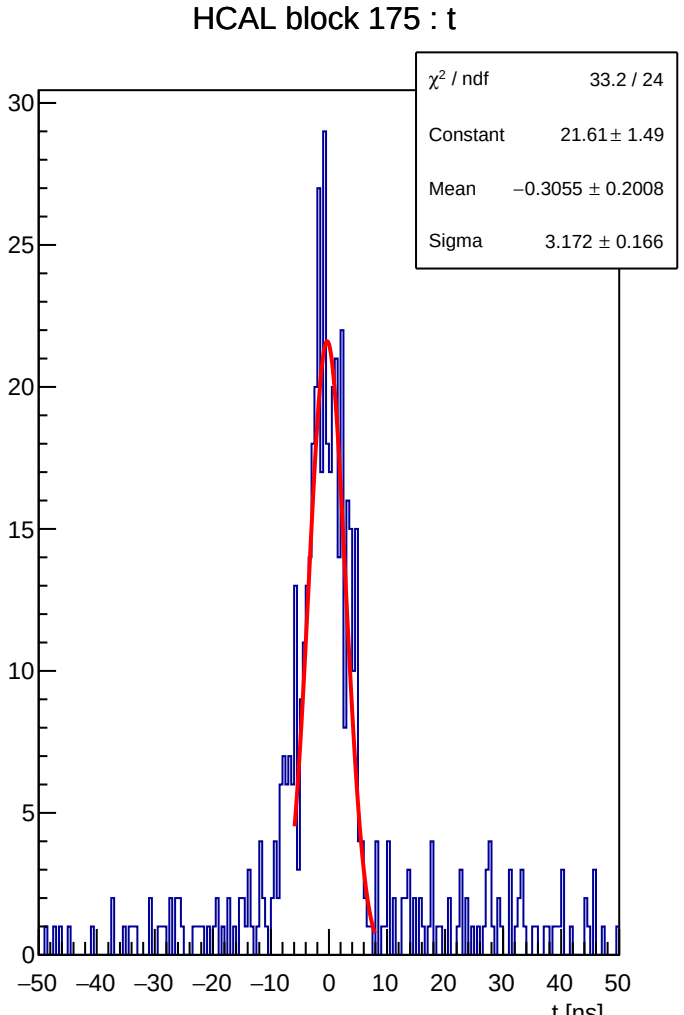

HCAL block 172 : t tw corr
χ² / ndf 15.93 / 21
Constant 27.41 ± 1.71
Mean −0.1916 ± 0.2046
Sigma 3.318 ± 0.190
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

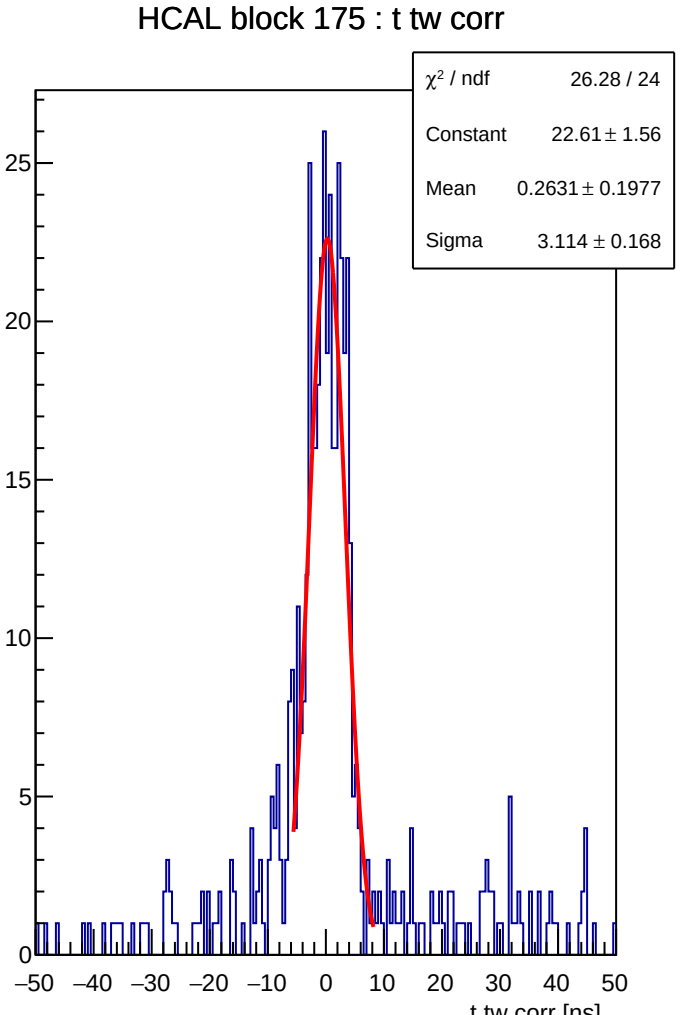

HCAL block 173 : t
χ² / ndf 23.34 / 20
Constant 22.33 ± 1.59
Mean 1.92 ± 0.25
Sigma 3.418 ± 0.259
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

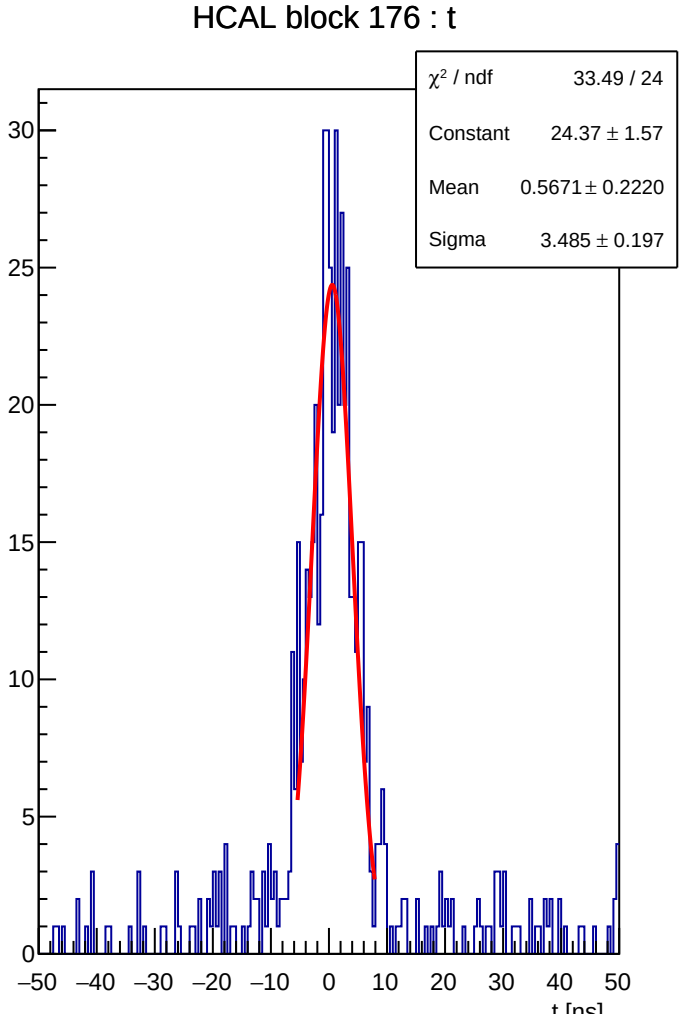

HCAL block 173 : t tw corr
χ² / ndf 19.09 / 21
Constant 20.1± 1.5
Mean –2.095 ± 0.270
Sigma 3.733 ± 0.298
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

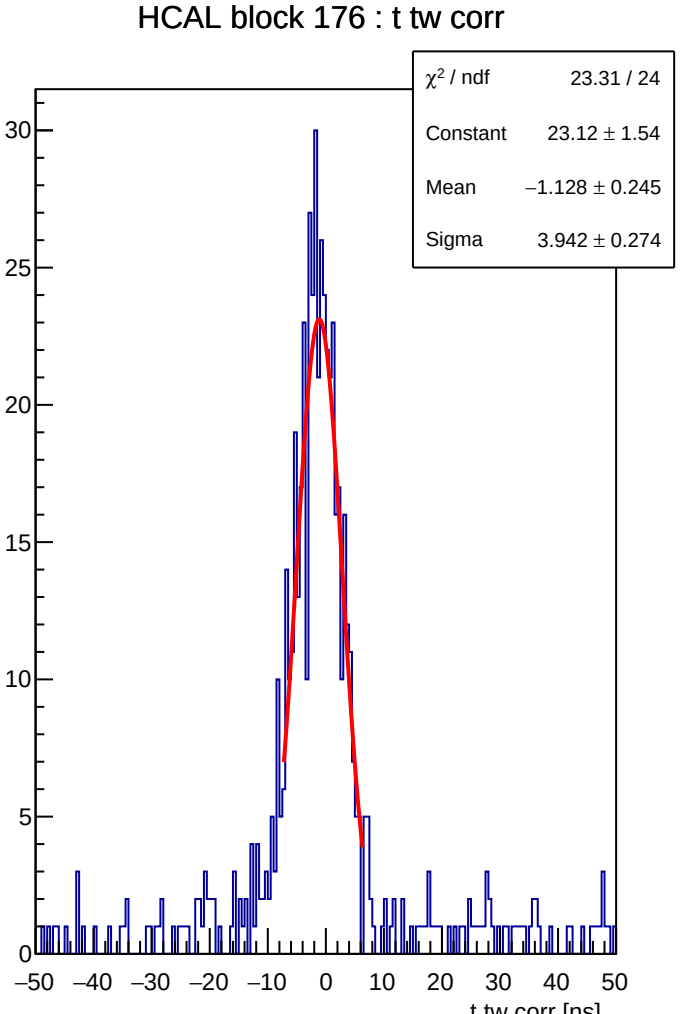

HCAL block 174 : t
χ² / ndf 33.06 / 27
Constant 23.26 ± 1.60
Mean −0.05848 ± 0.22126
Sigma 3.338 ± 0.189
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

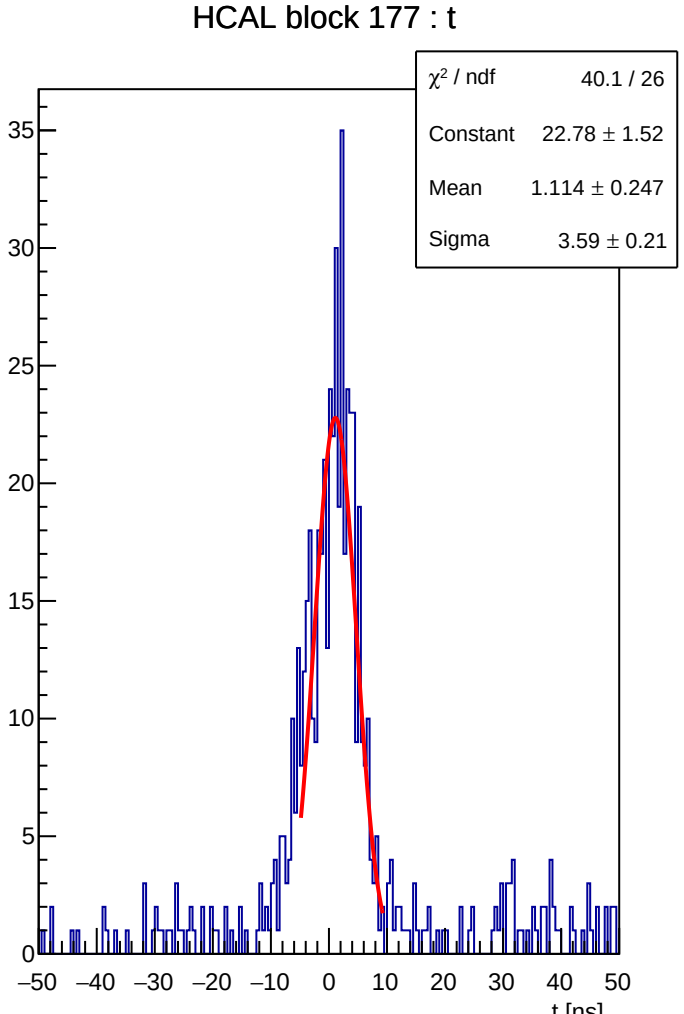

HCAL block 174 : t tw corr
χ² / ndf 27.66 / 40
Constant 10.61 ± 26.72
Mean −146.8 ± 96.3
Sigma 68.71 ± 39.15
12
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

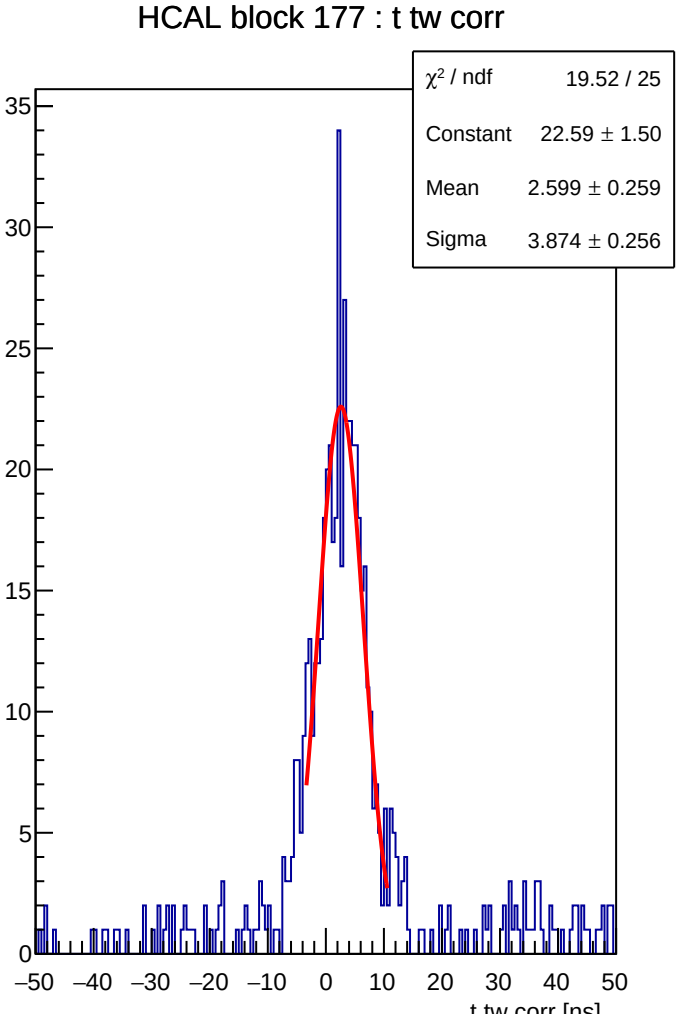

HCAL block 175 : t
χ² / ndf 33.2 / 24
Constant 21.61 ± 1.49
Mean −0.3055 ± 0.2008
Sigma 3.172 ± 0.166
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

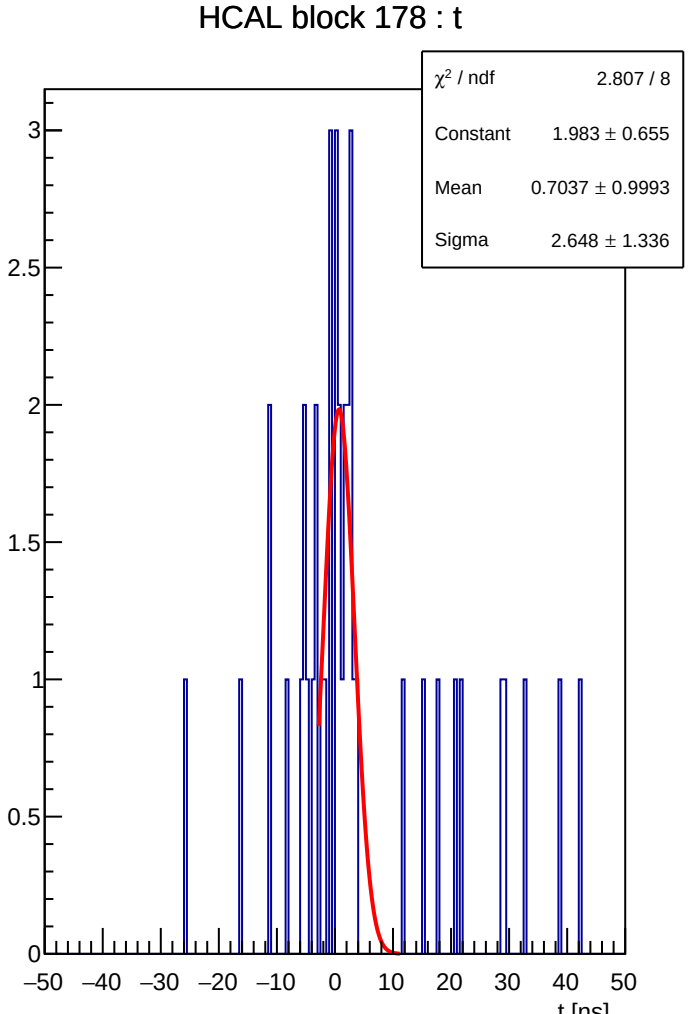

HCAL block 175 : t tw corr
χ² / ndf 26.28 / 24
Constant 22.61 ± 1.56
Mean 0.2631 ± 0.1977
Sigma 3.114 ± 0.168
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

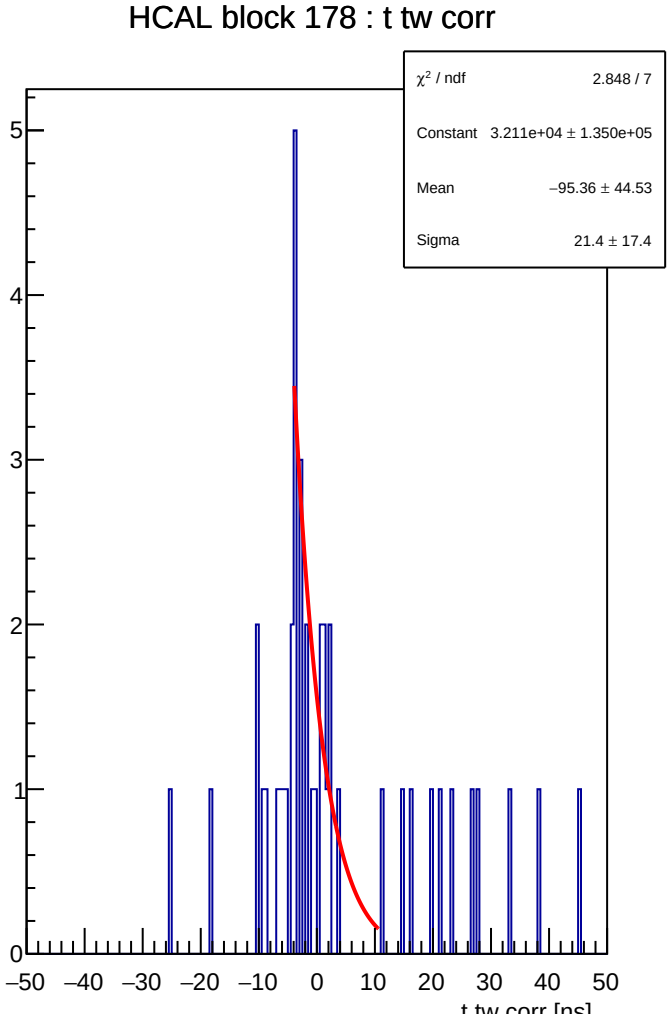

HCAL block 176 : t
χ² / ndf 33.49 / 24
Constant 24.37 ± 1.57
Mean 0.5671 ± 0.2220
Sigma 3.485 ± 0.197
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

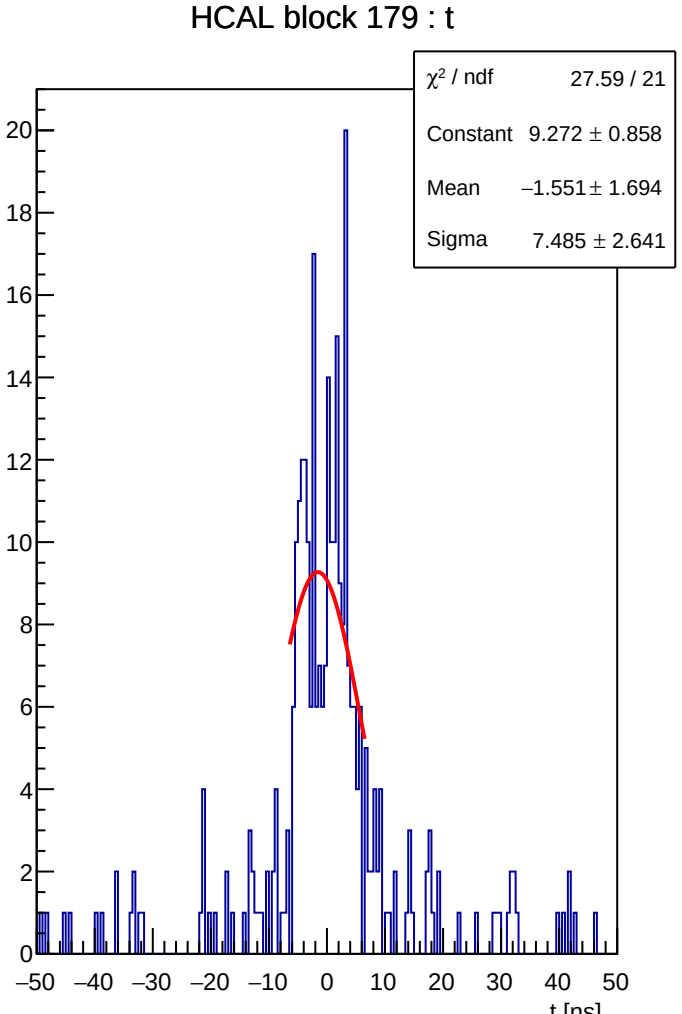

HCAL block 176 : t tw corr
χ² / ndf 23.31 / 24
Constant 23.12 ± 1.54
Mean –1.128 ± 0.245
Sigma 3.942 ± 0.274
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

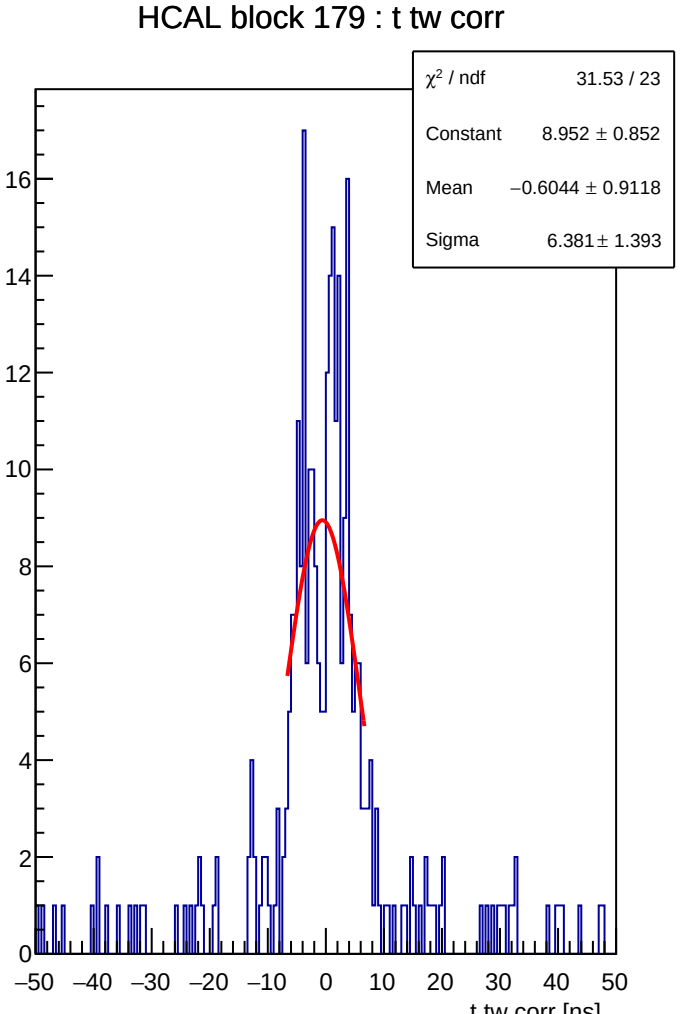

HCAL block 177 : t
χ² / ndf 40.1 / 26
Constant 22.78 ± 1.52
Mean 1.114 ± 0.247
Sigma 3.59 ± 0.21
35
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

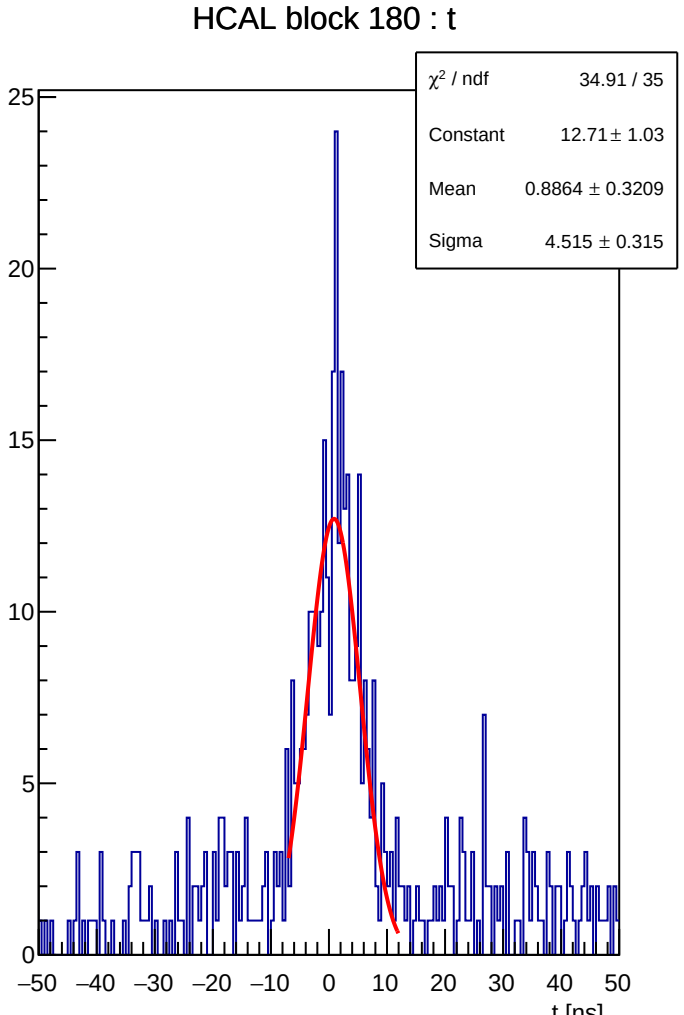

HCAL block 177 : t tw corr
χ² / ndf 19.52 / 25
Constant 22.59 ± 1.50
Mean 2.599 ± 0.259
Sigma 3.874 ± 0.256
35
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

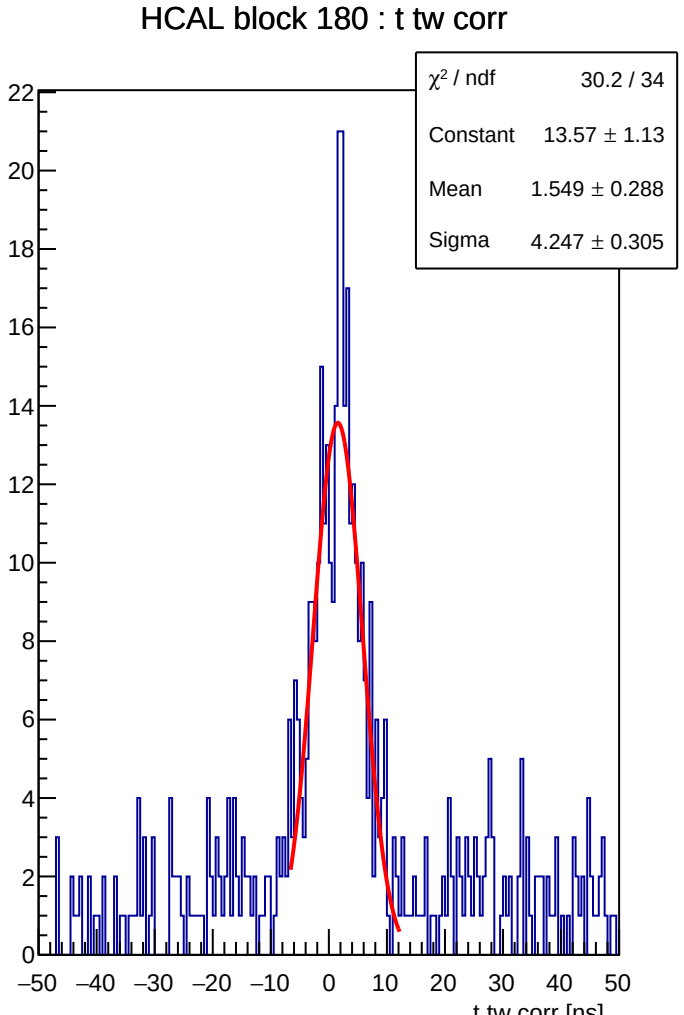

HCAL block 178 : t
χ² / ndf 2.807 / 8
Constant 1.983 ± 0.655
Mean 0.7037 ± 0.9993
Sigma 2.648 ± 1.336
t [ns]

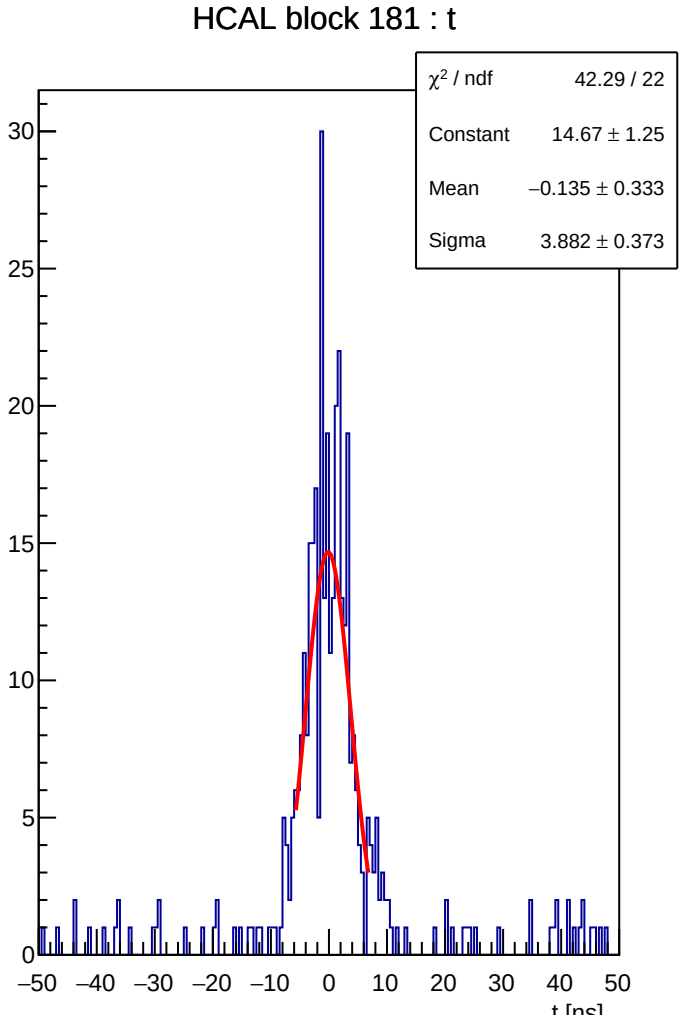

HCAL block 178 : t tw corr
χ² / ndf 2.848 / 7
Constant 3.211e+04 ± 1.350e+05
Mean −95.36 ± 44.53
Sigma 21.4 ± 17.4
t tw corr [ns]

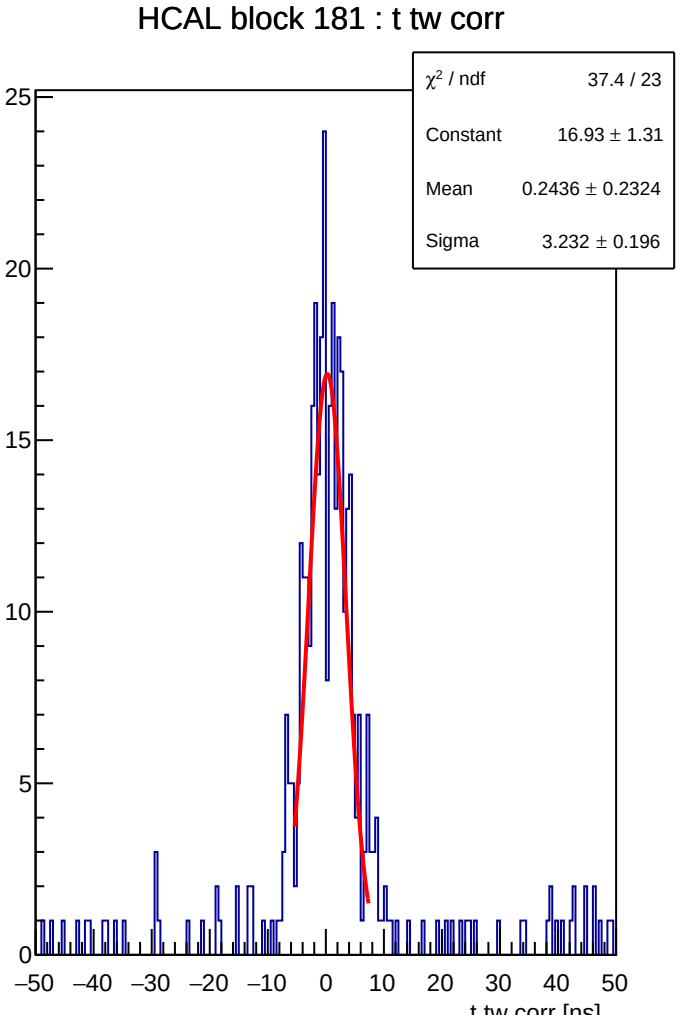

HCAL block 179 : t
χ² / ndf 27.59 / 21
Constant 9.272 ± 0.858
Mean −1.551 ± 1.694
Sigma 7.485 ± 2.641
t [ns]

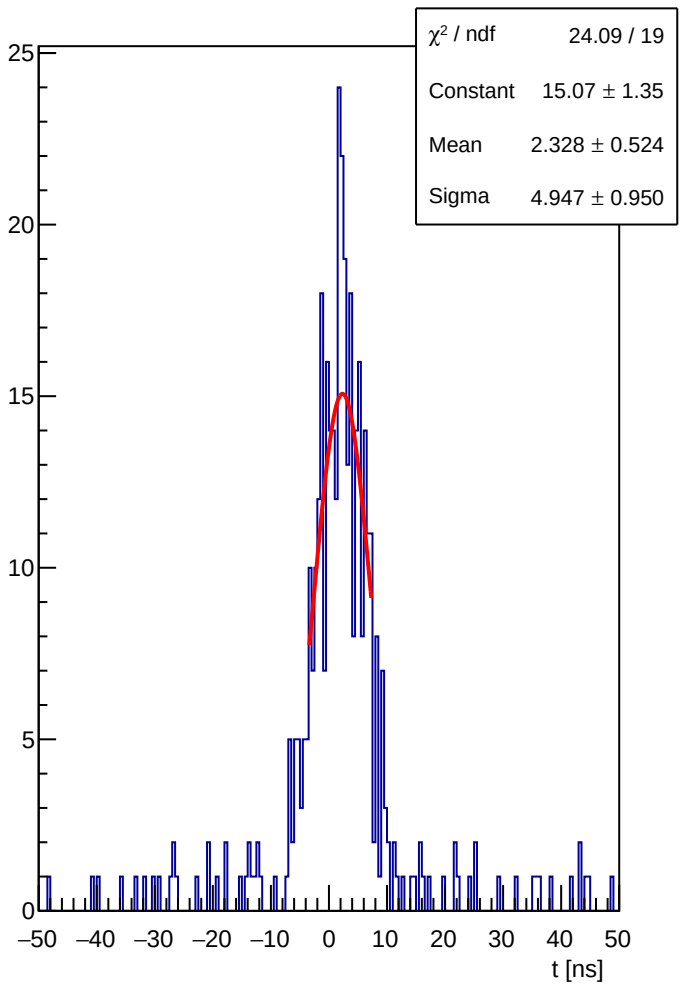

HCAL block 179 : t tw corr
χ² / ndf 31.53 / 23
Constant 8.952 ± 0.852
Mean −0.6044 ± 0.9118
Sigma 6.381 ± 1.393
t tw corr [ns]

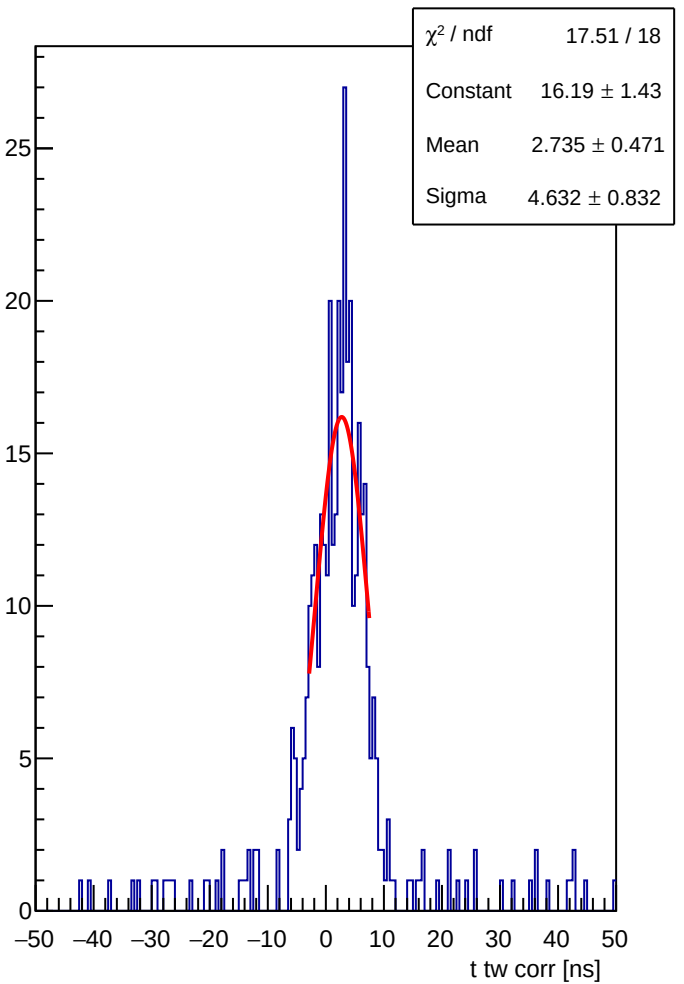

HCAL block 180 : t
χ² / ndf 34.91 / 35
Constant 12.71 ± 1.03
Mean 0.8864 ± 0.3209
Sigma 4.515 ± 0.315
t [ns]

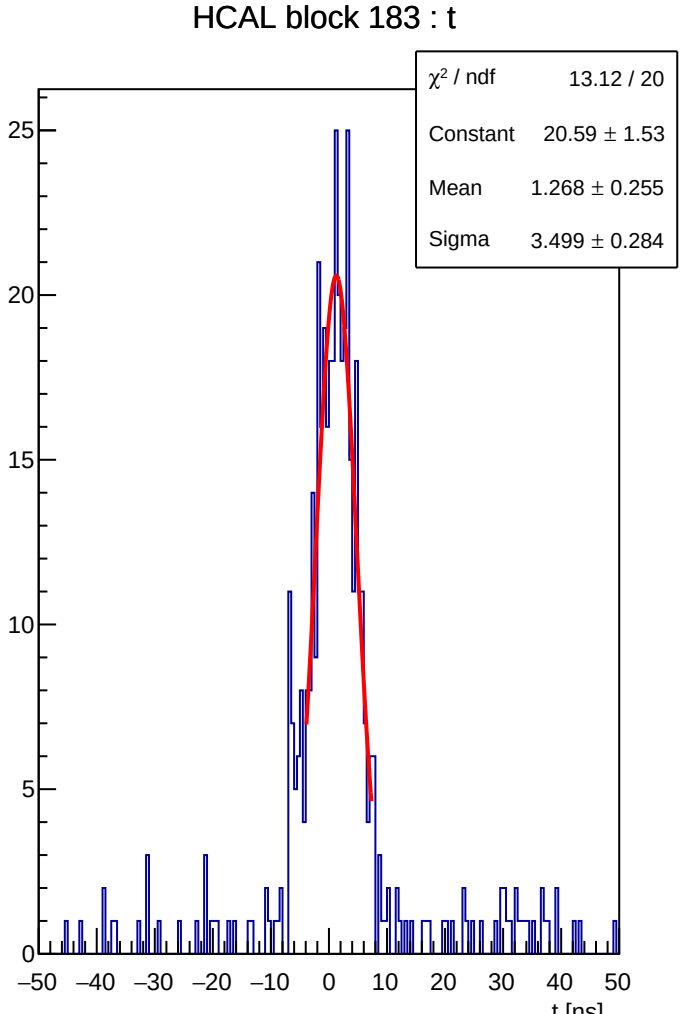

HCAL block 180 : t tw corr
χ² / ndf 30.2 / 34
Constant 13.57 ± 1.13
Mean 1.549 ± 0.288
Sigma 4.247 ± 0.305
t tw corr [ns]

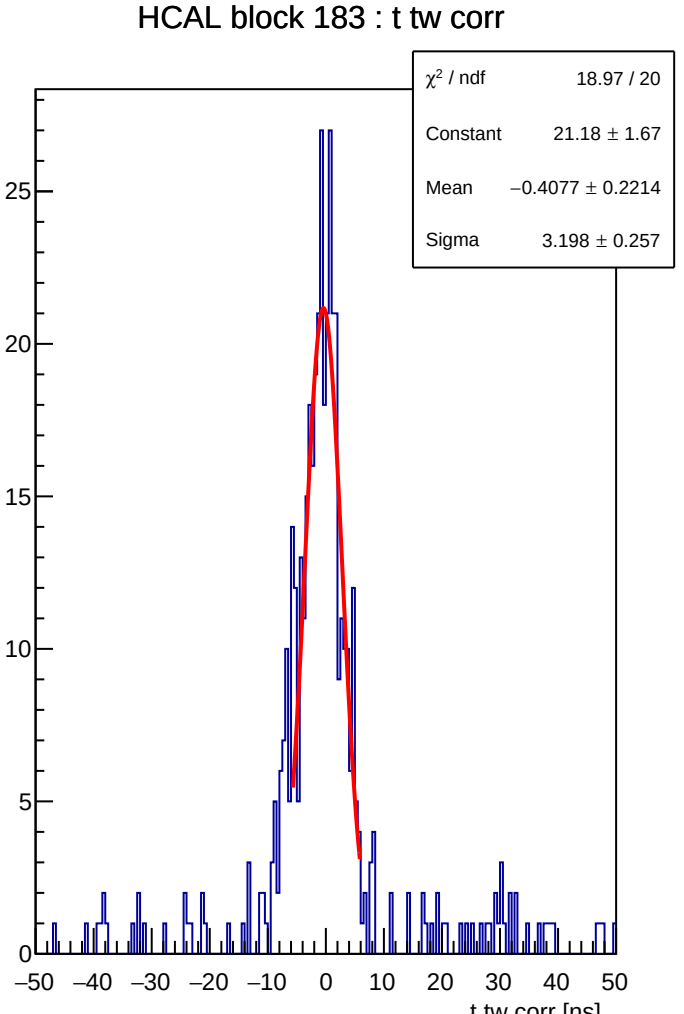

HCAL block 181 : t
χ² / ndf 42.29 / 22
Constant 14.67 ± 1.25
Mean −0.135 ± 0.333
Sigma 3.882 ± 0.373
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

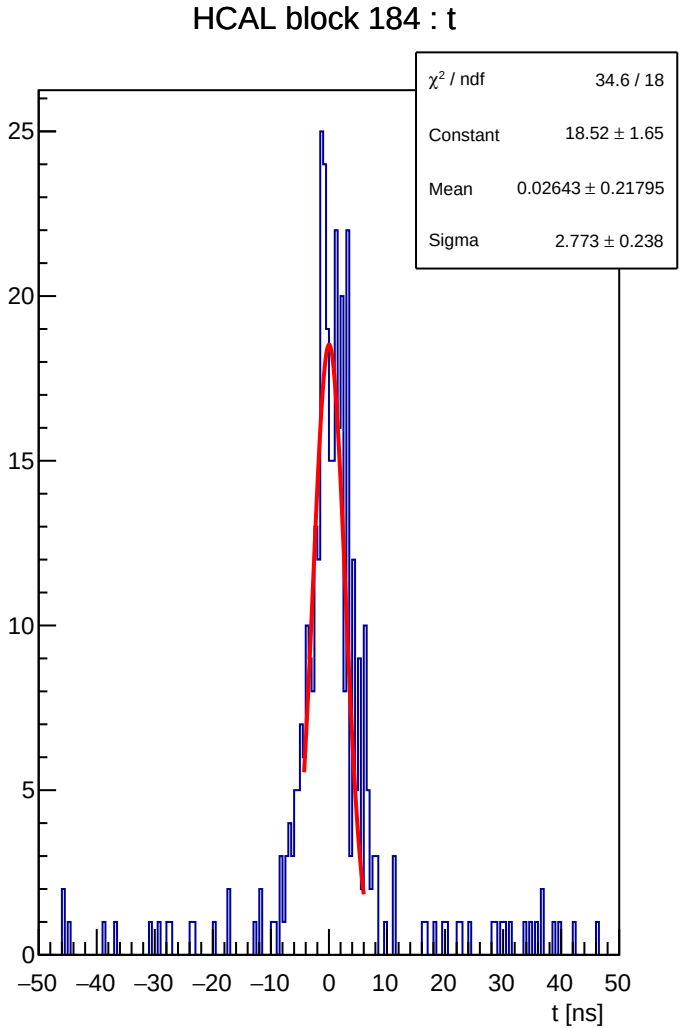

HCAL block 181 : t tw corr
χ² / ndf 37.4 / 23
Constant 16.93 ± 1.31
Mean 0.2436 ± 0.2324
Sigma 3.232 ± 0.196
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

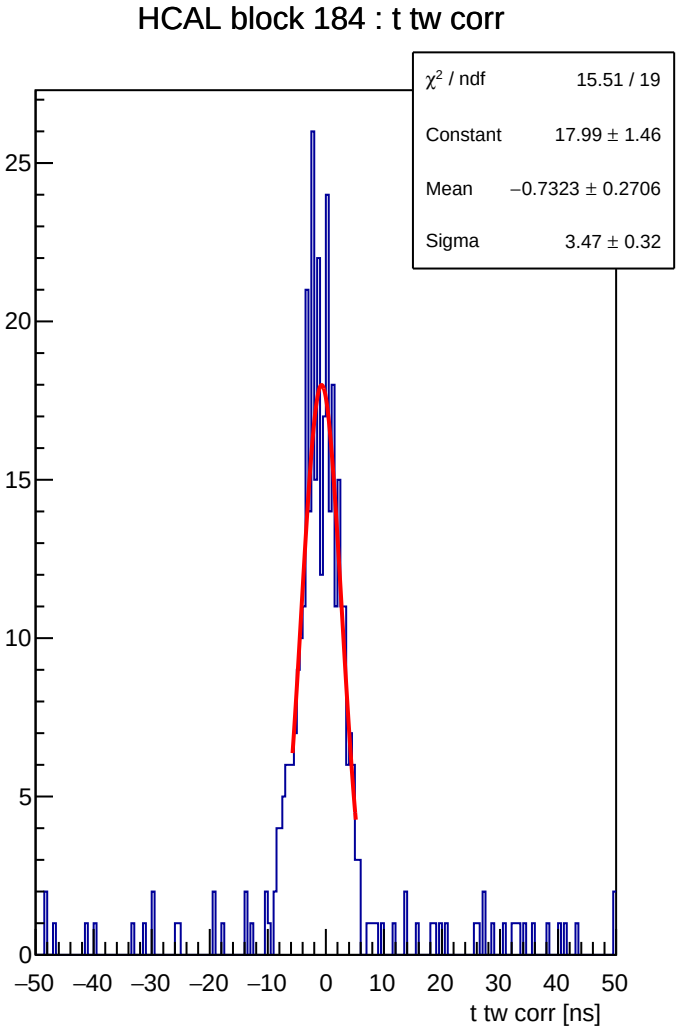

HCAL block 182 : t
χ² / ndf 24.09 / 19
Constant 15.07 ± 1.35
Mean 2.328 ± 0.524
Sigma 4.947 ± 0.950
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

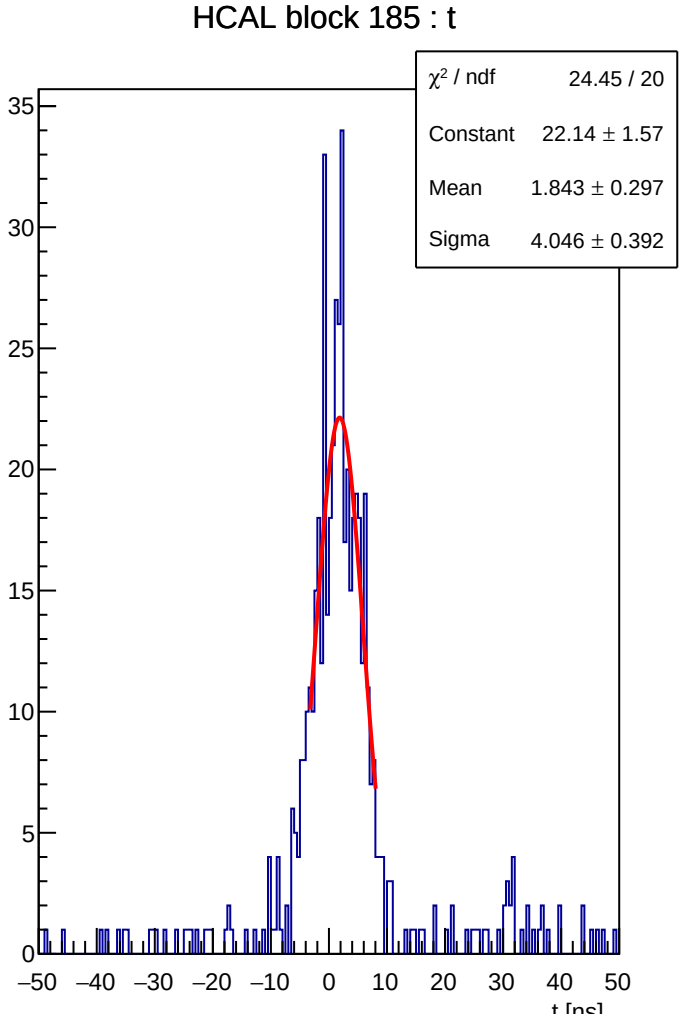

HCAL block 182 : t tw corr
χ² / ndf 17.51 / 18
Constant 16.19 ± 1.43
Mean 2.735 ± 0.471
Sigma 4.632 ± 0.832
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

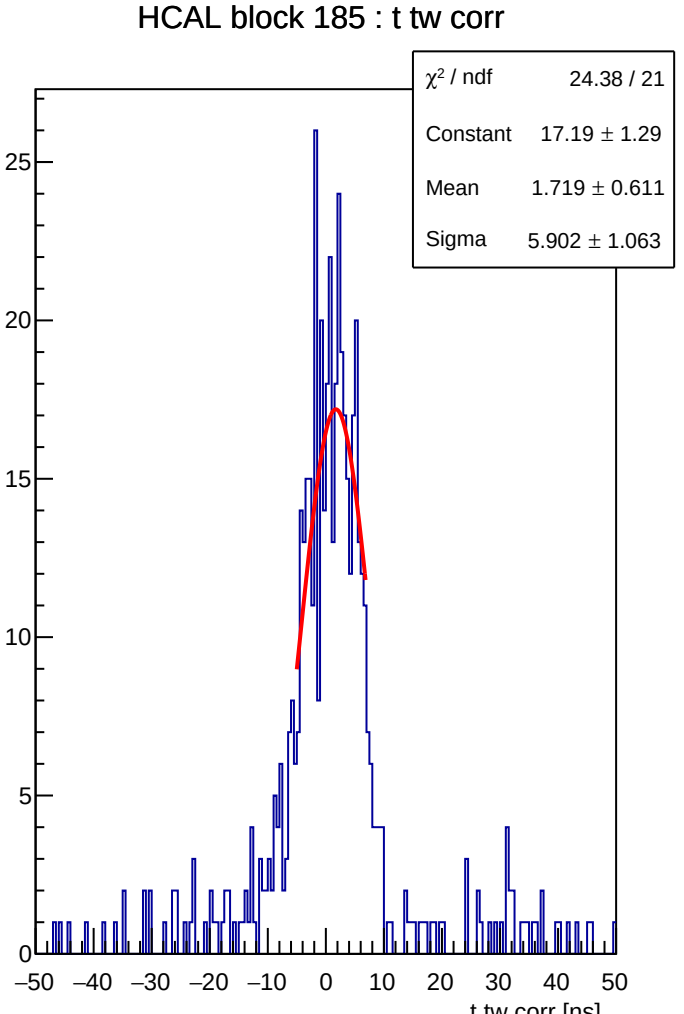

HCAL block 183 : t
χ² / ndf 13.12 / 20
Constant 20.59 ± 1.53
Mean 1.268 ± 0.255
Sigma 3.499 ± 0.284
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

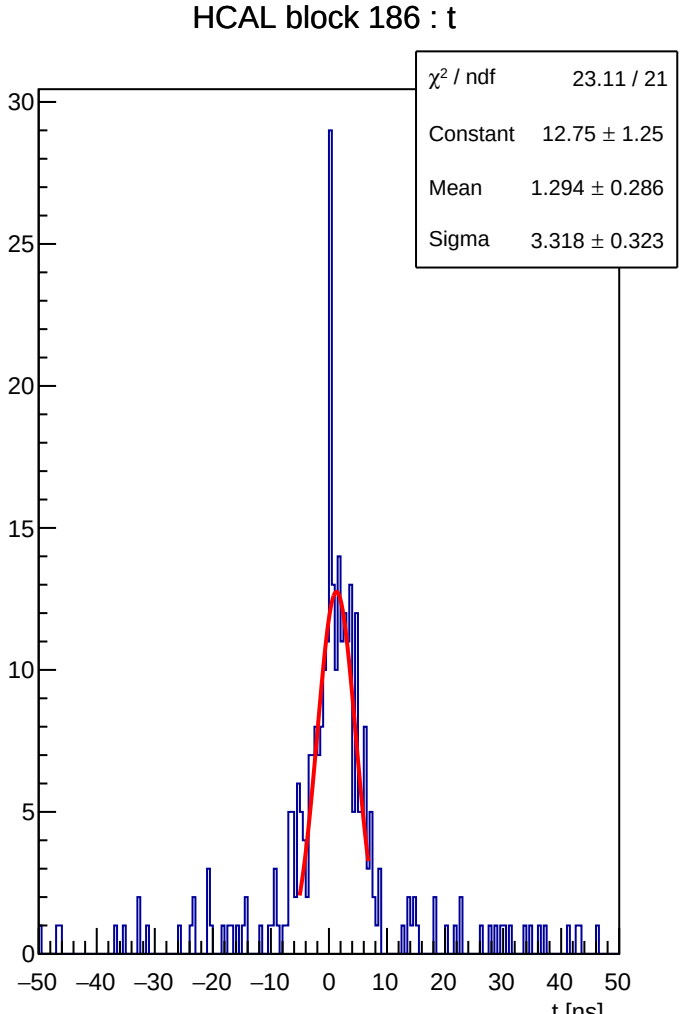

HCAL block 183 : t tw corr
χ² / ndf 18.97 / 20
Constant 21.18 ± 1.67
Mean −0.4077 ± 0.2214
Sigma 3.198 ± 0.257
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

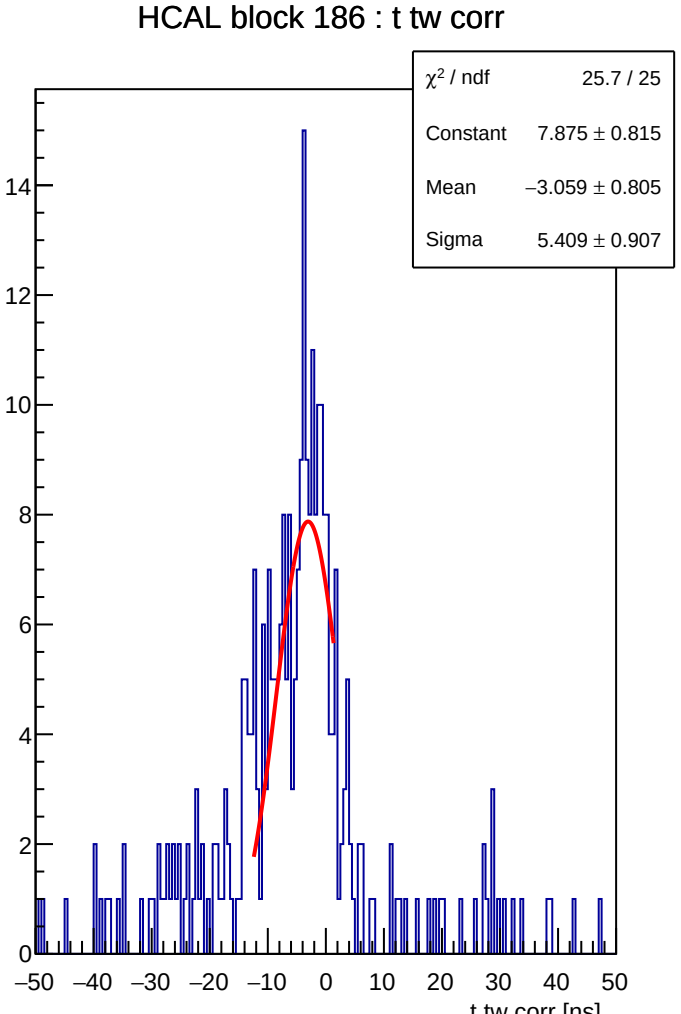

HCAL block 184 : t
χ² / ndf 34.6 / 18
Constant 18.52 ± 1.65
Mean 0.02643 ± 0.21795
Sigma 2.773 ± 0.238
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

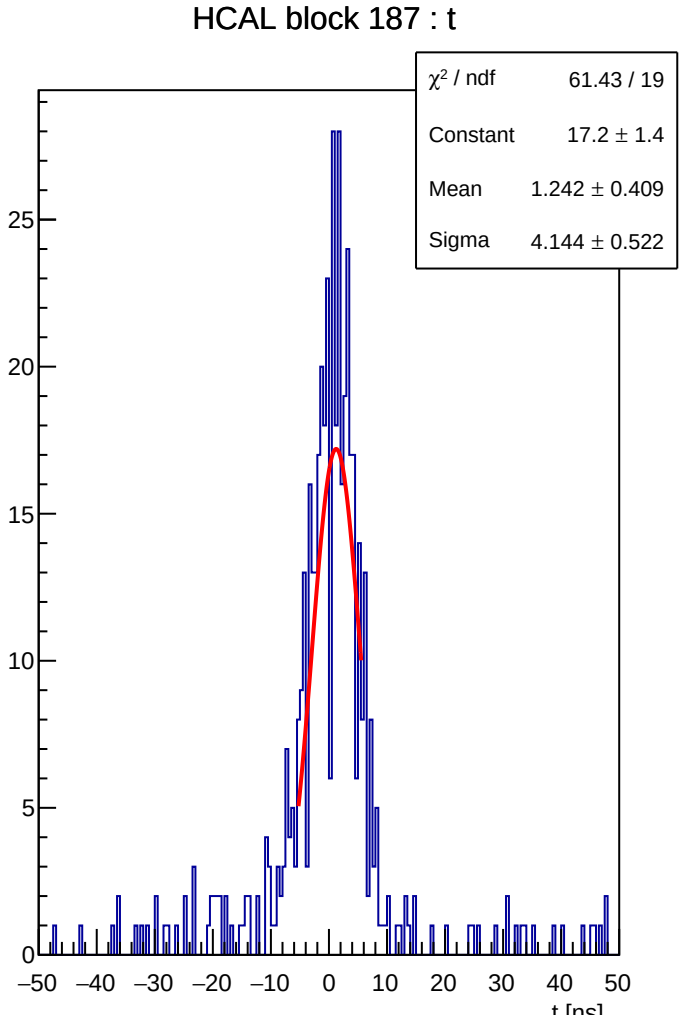

HCAL block 184 : t tw corr
χ² / ndf 15.51 / 19
Constant 17.99 ± 1.46
Mean −0.7323 ± 0.2706
Sigma 3.47 ± 0.32
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

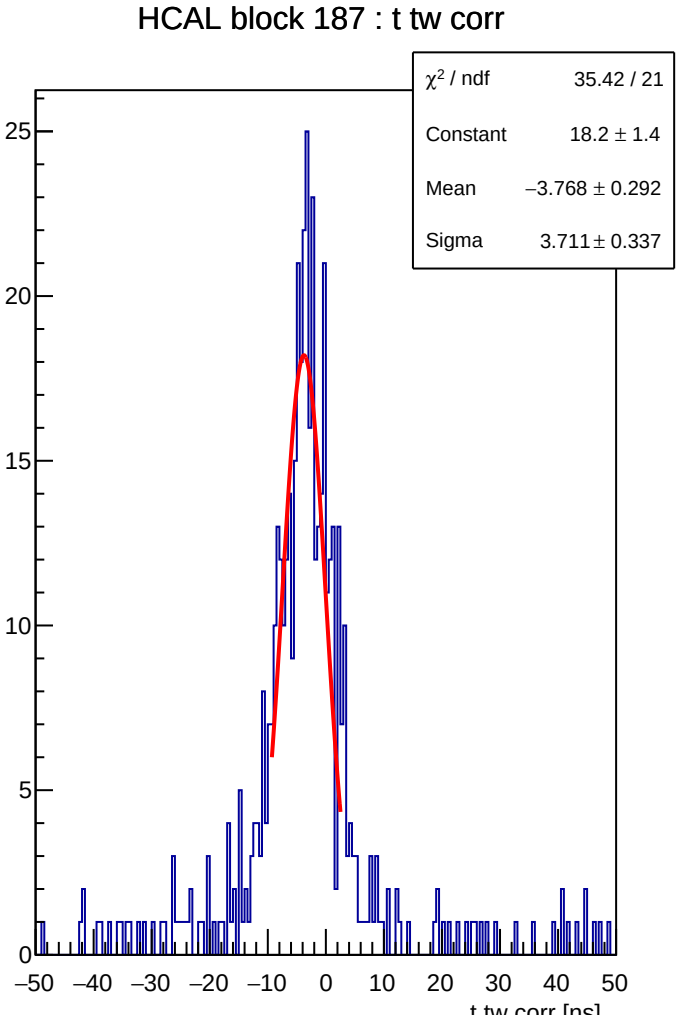

HCAL block 185 : t
χ² / ndf 24.45 / 20
Constant 22.14 ± 1.57
Mean 1.843 ± 0.297
Sigma 4.046 ± 0.392
35
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

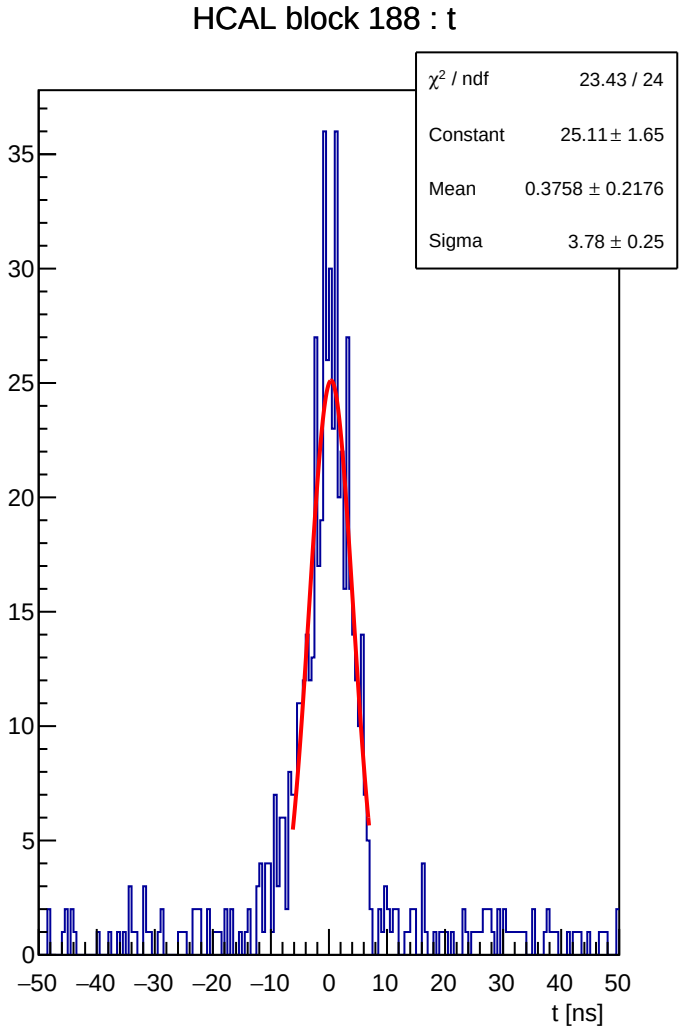

HCAL block 185 : t tw corr
χ² / ndf 24.38 / 21
Constant 17.19 ± 1.29
Mean 1.719 ± 0.611
Sigma 5.902 ± 1.063
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

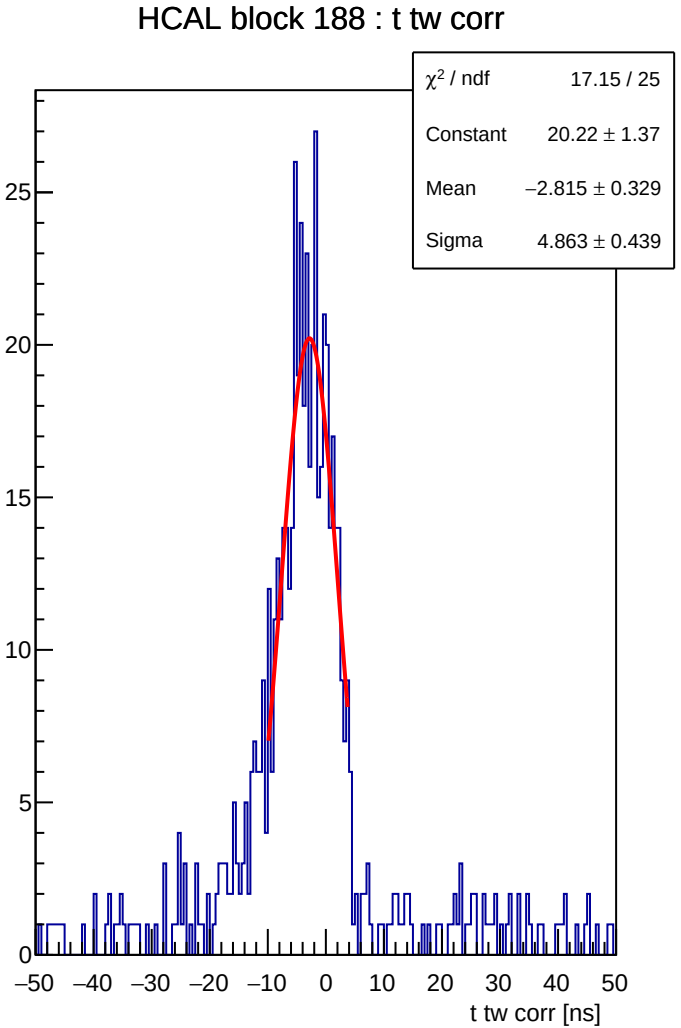

HCAL block 186 : t
χ² / ndf 23.11 / 21
Constant 12.75 ± 1.25
Mean 1.294 ± 0.286
Sigma 3.318 ± 0.323
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

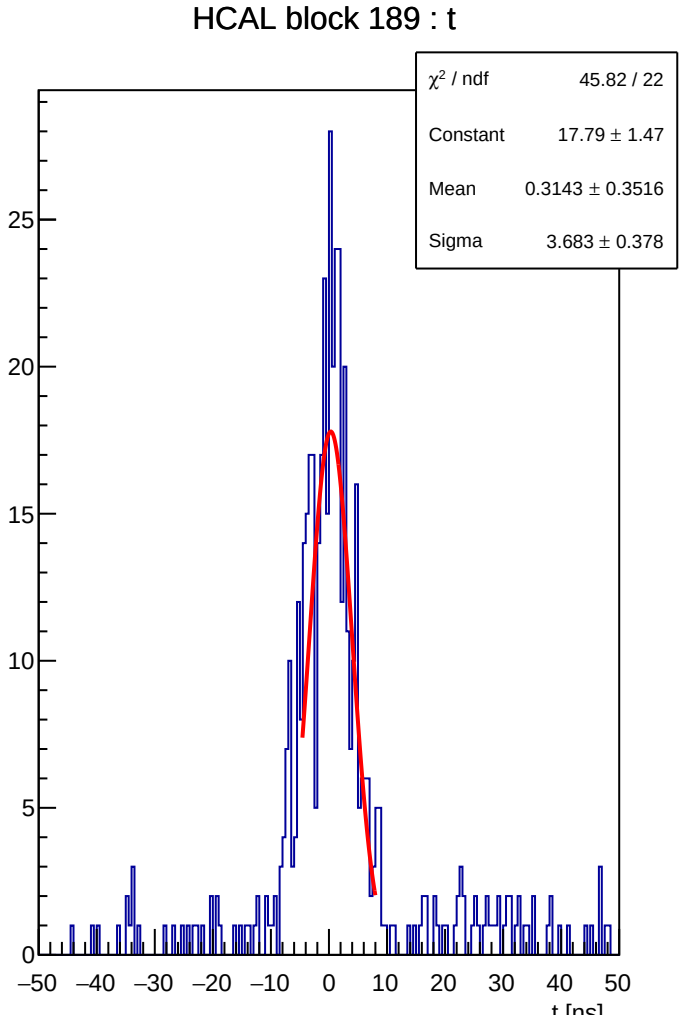

HCAL block 186 : t tw corr
χ² / ndf 25.7 / 25
Constant 7.875 ± 0.815
Mean –3.059 ± 0.805
Sigma 5.409 ± 0.907
14
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

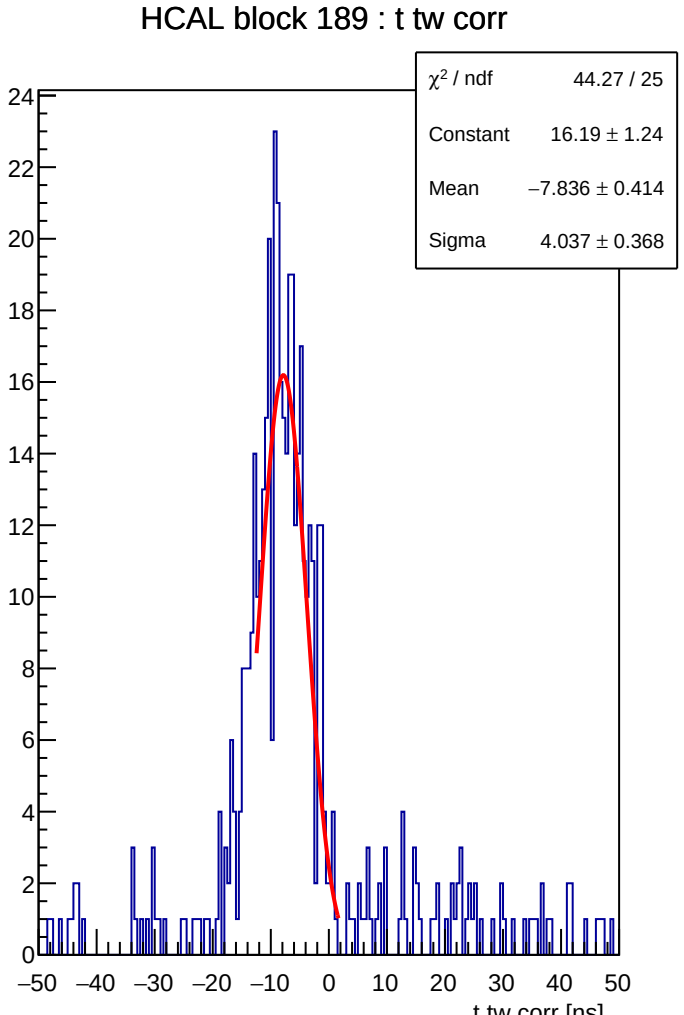

HCAL block 187 : t
χ² / ndf 61.43 / 19
Constant 17.2 ± 1.4
Mean 1.242 ± 0.409
Sigma 4.144 ± 0.522
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

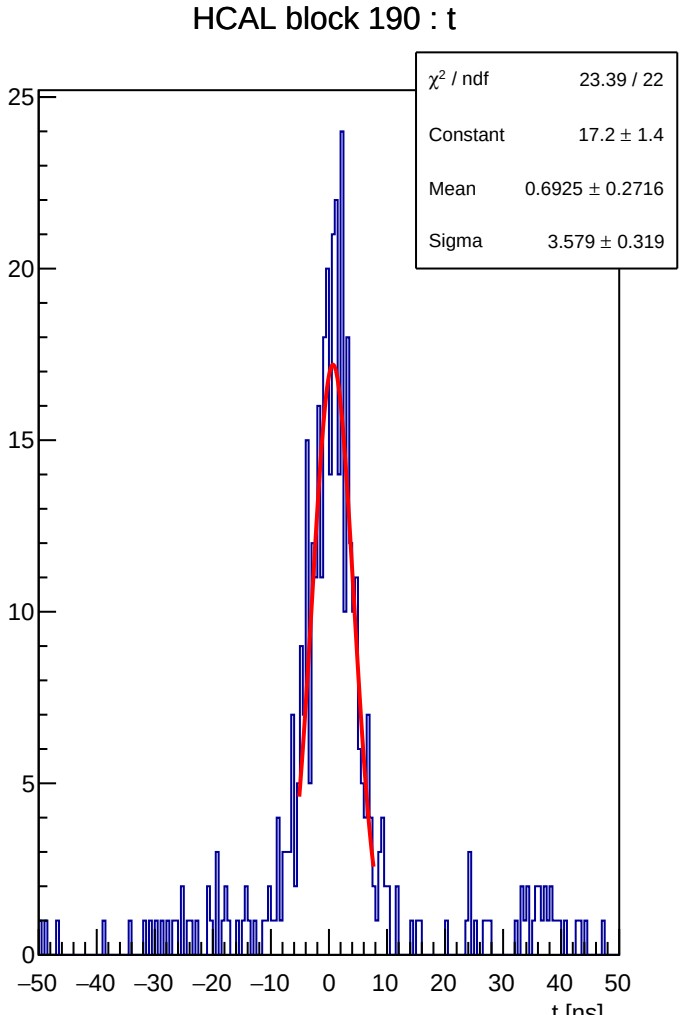

HCAL block 187 : t tw corr
χ² / ndf 35.42 / 21
Constant 18.2 ± 1.4
Mean –3.768 ± 0.292
Sigma 3.711 ± 0.337
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

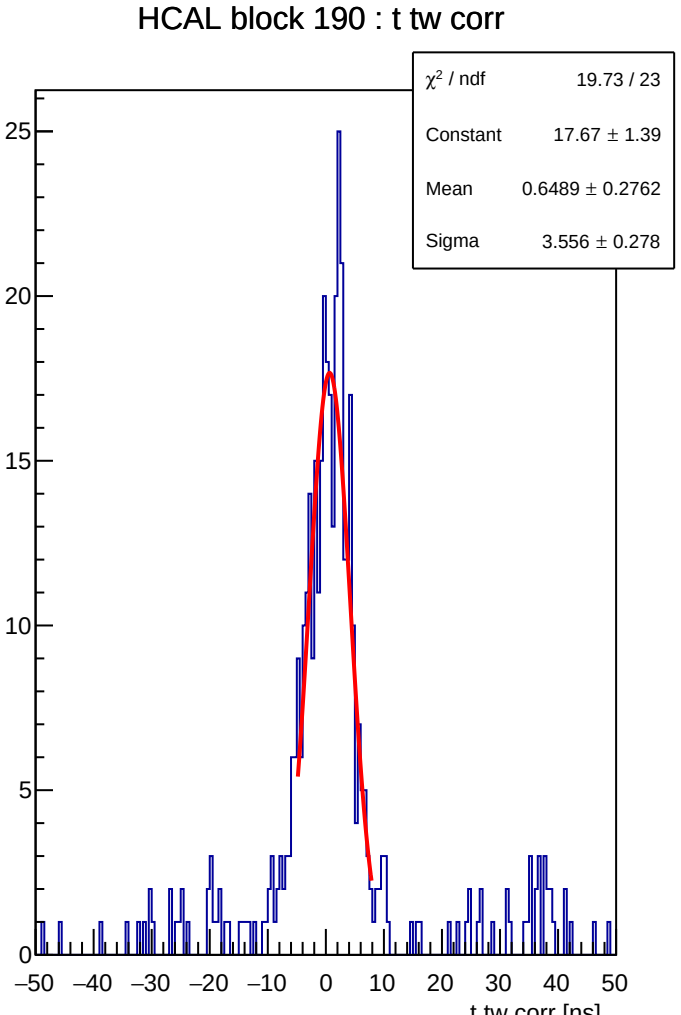

HCAL block 188 : t
χ² / ndf 23.43 / 24
Constant 25.11 ± 1.65
Mean 0.3758 ± 0.2176
Sigma 3.78 ± 0.25
t [ns]

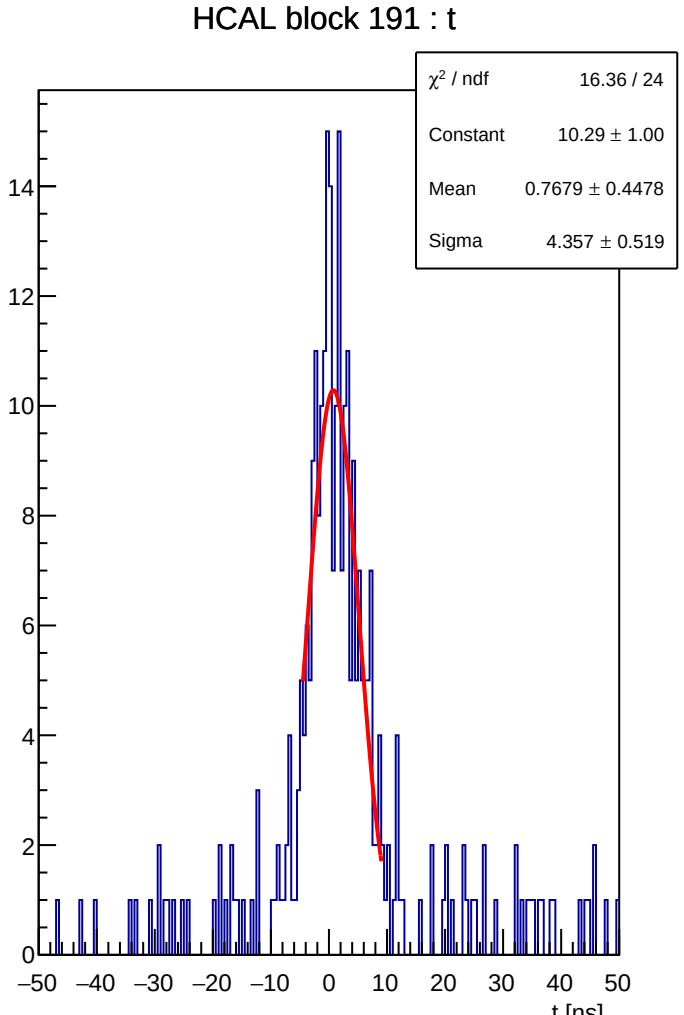

HCAL block 188 : t tw corr
χ² / ndf 17.15 / 25
Constant 20.22 ± 1.37
Mean −2.815 ± 0.329
Sigma 4.863 ± 0.439
t tw corr [ns]

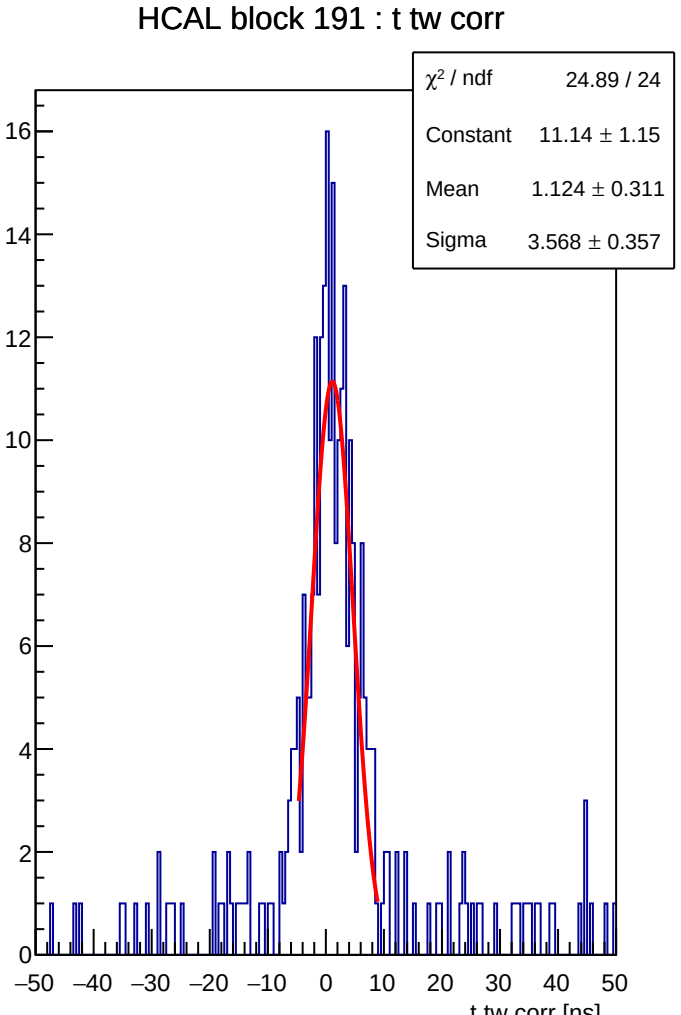

HCAL block 189 : t
χ² / ndf 45.82 / 22
Constant 17.79 ± 1.47
Mean 0.3143 ± 0.3516
Sigma 3.683 ± 0.378
t [ns]

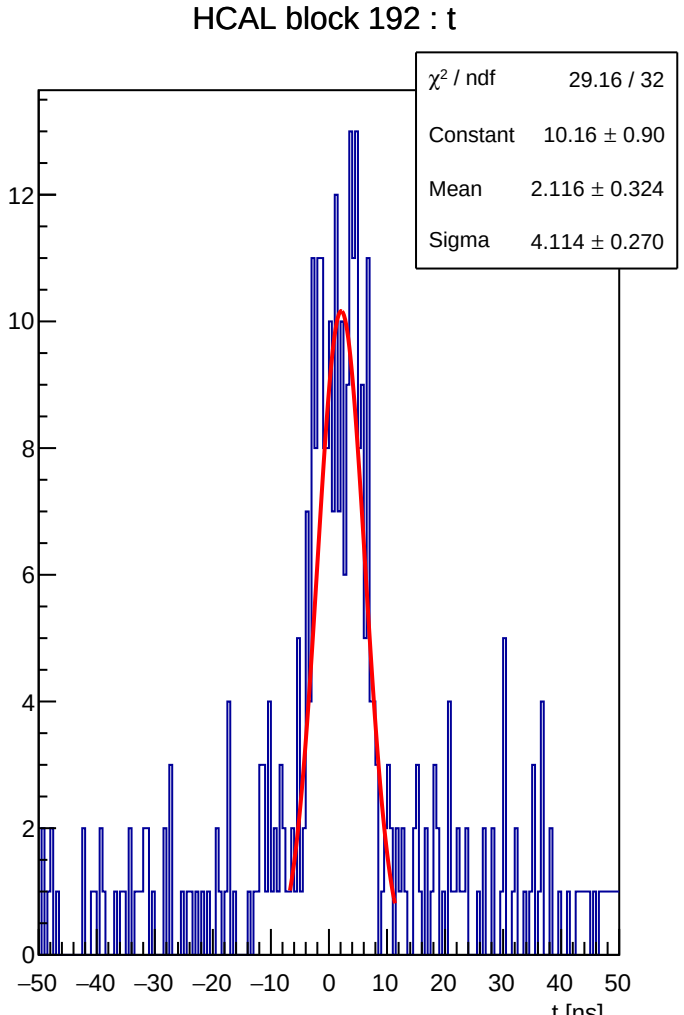

HCAL block 189 : t tw corr
χ² / ndf 44.27 / 25
Constant 16.19 ± 1.24
Mean −7.836 ± 0.414
Sigma 4.037 ± 0.368
t tw corr [ns]

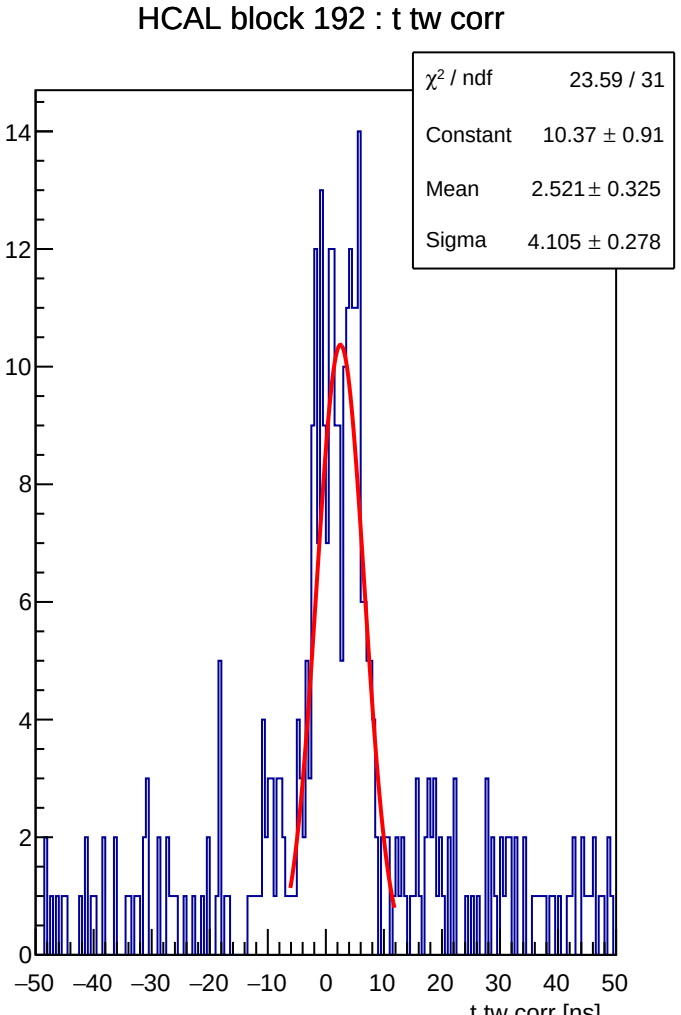

HCAL block 190 : t
χ² / ndf 23.39 / 22
Constant 17.2 ± 1.4
Mean 0.6925 ± 0.2716
Sigma 3.579 ± 0.319
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

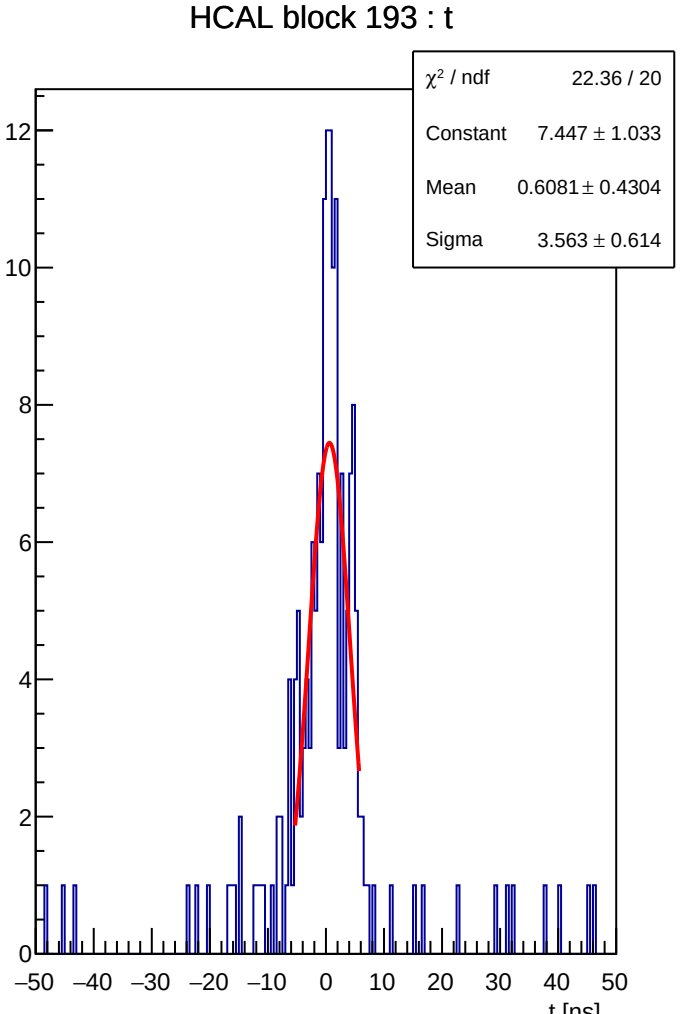

HCAL block 190 : t tw corr
χ² / ndf 19.73 / 23
Constant 17.67 ± 1.39
Mean 0.6489 ± 0.2762
Sigma 3.556 ± 0.278
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

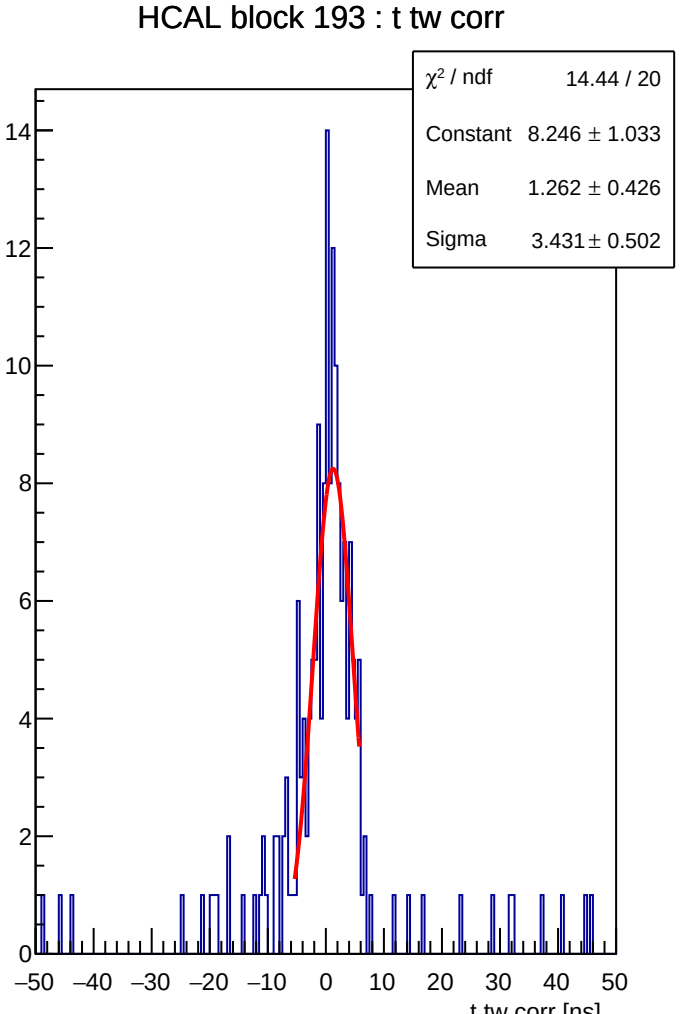

HCAL block 191 : t
χ² / ndf 16.36 / 24
Constant 10.29 ± 1.00
Mean 0.7679 ± 0.4478
Sigma 4.357 ± 0.519
t [ns]

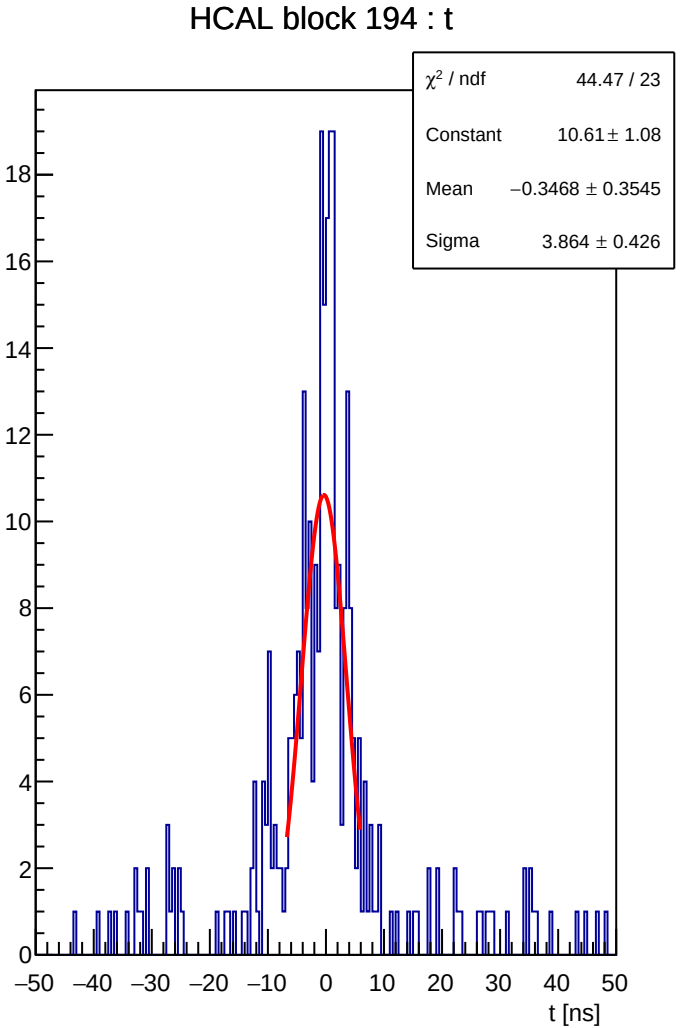

HCAL block 191 : t tw corr
χ² / ndf 24.89 / 24
Constant 11.14 ± 1.15
Mean 1.124 ± 0.311
Sigma 3.568 ± 0.357
t tw corr [ns]

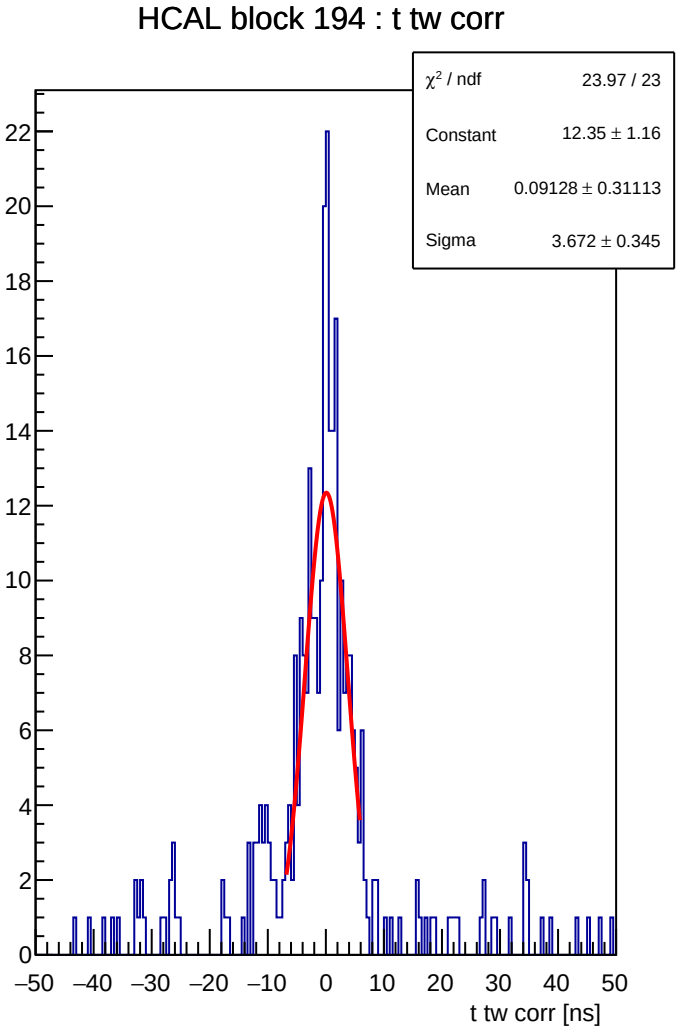

HCAL block 192 : t
χ² / ndf 29.16 / 32
Constant 10.16 ± 0.90
Mean 2.116 ± 0.324
Sigma 4.114 ± 0.270
t [ns]

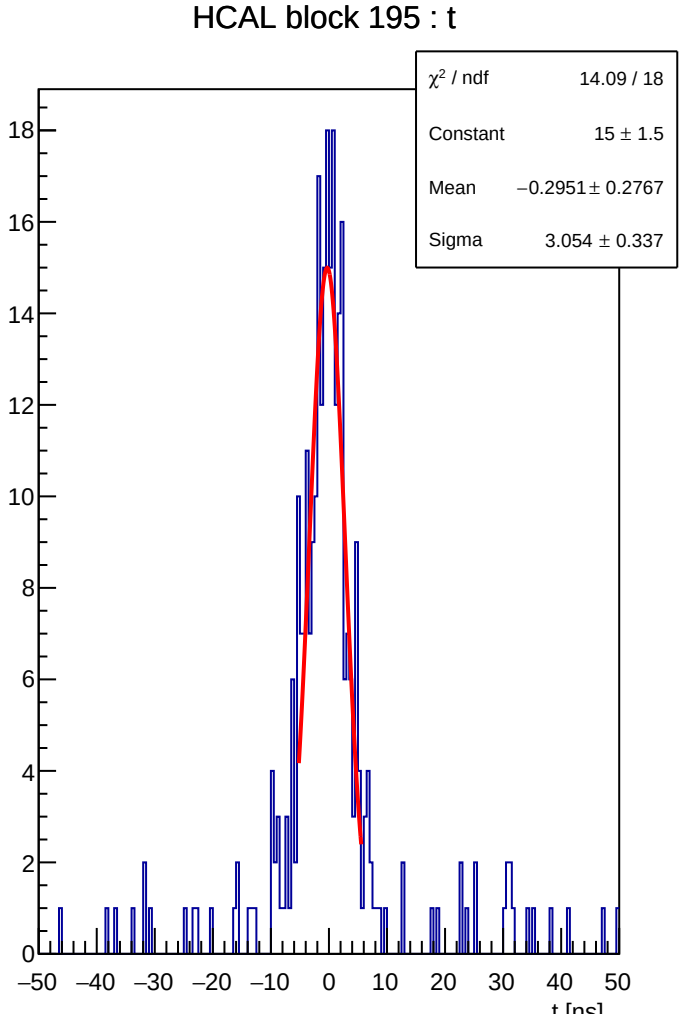

HCAL block 192 : t tw corr
χ² / ndf 23.59 / 31
Constant 10.37 ± 0.91
Mean 2.521 ± 0.325
Sigma 4.105 ± 0.278
t tw corr [ns]

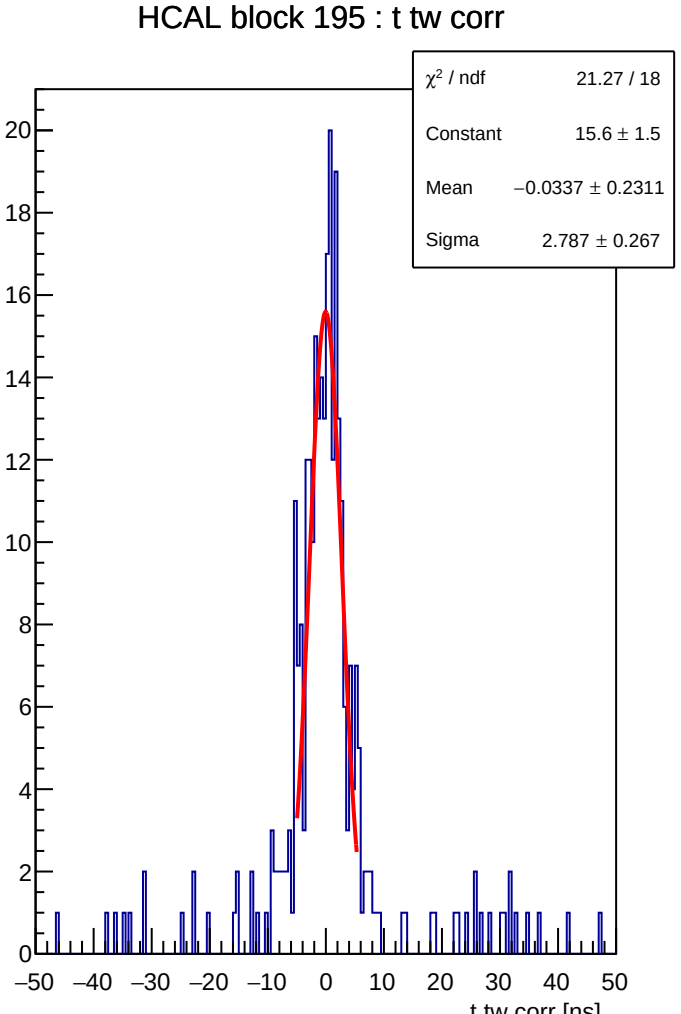

HCAL block 193 : t
χ² / ndf 22.36 / 20
Constant 7.447 ± 1.033
Mean 0.6081 ± 0.4304
Sigma 3.563 ± 0.614
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

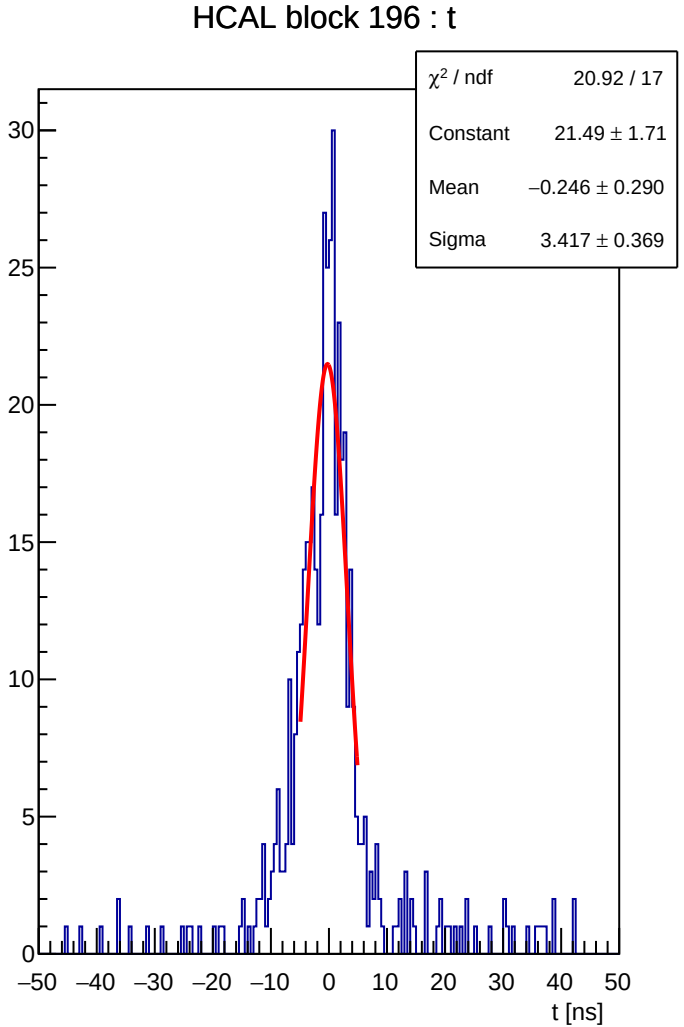

HCAL block 193 : t tw corr
χ² / ndf 14.44 / 20
Constant 8.246 ± 1.033
Mean 1.262 ± 0.426
Sigma 3.431 ± 0.502
14
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

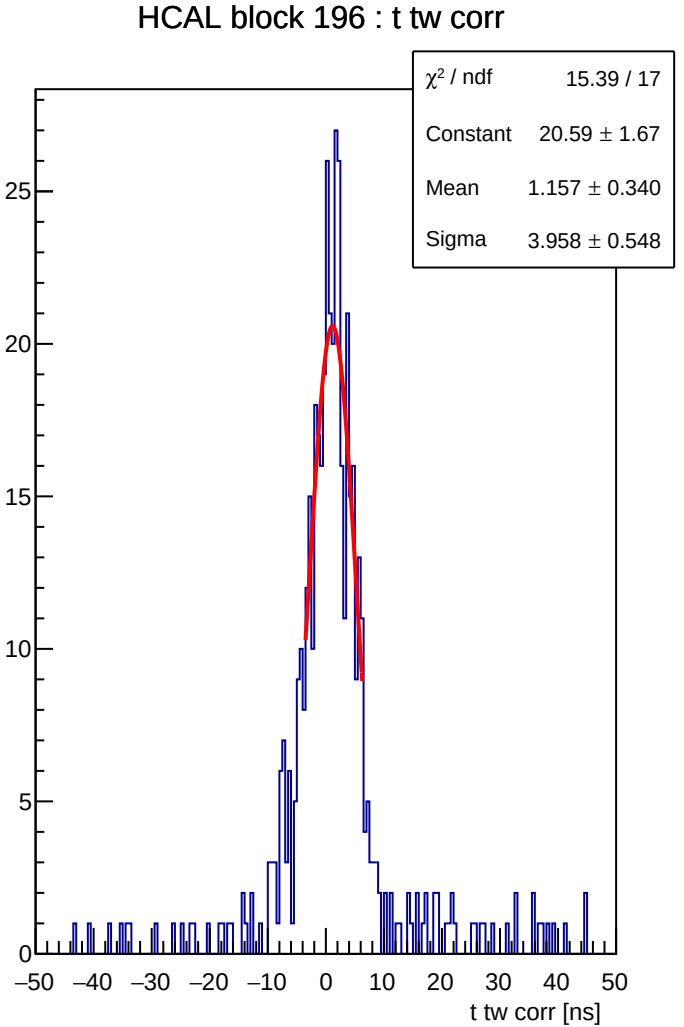

HCAL block 194 : t
χ² / ndf 44.47 / 23
Constant 10.61 ± 1.08
Mean −0.3468 ± 0.3545
Sigma 3.864 ± 0.426
t [ns]

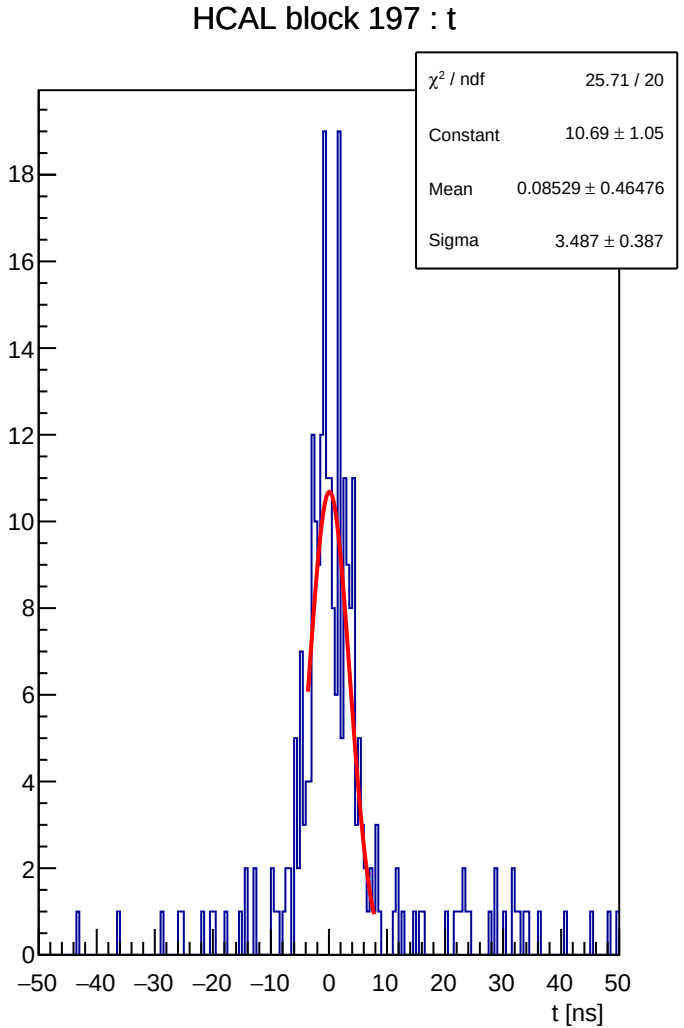

HCAL block 194 : t tw corr
χ² / ndf 23.97 / 23
Constant 12.35 ± 1.16
Mean 0.09128 ± 0.31113
Sigma 3.672 ± 0.345
t tw corr [ns]

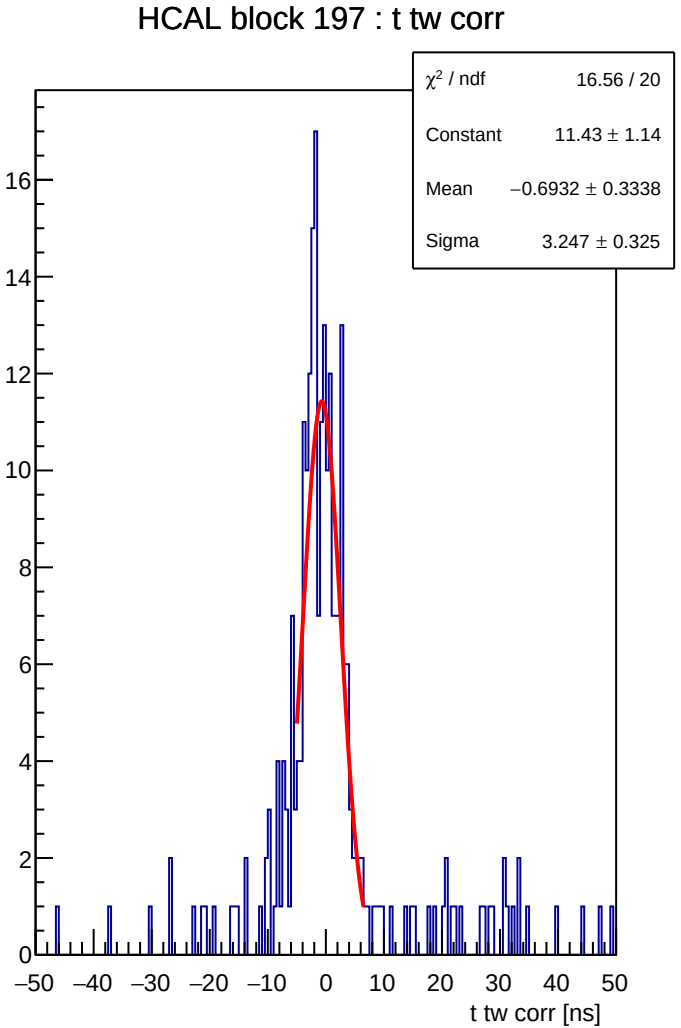

HCAL block 195 : t
χ² / ndf 14.09 / 18
Constant 15 ± 1.5
Mean −0.2951 ± 0.2767
Sigma 3.054 ± 0.337
t [ns]

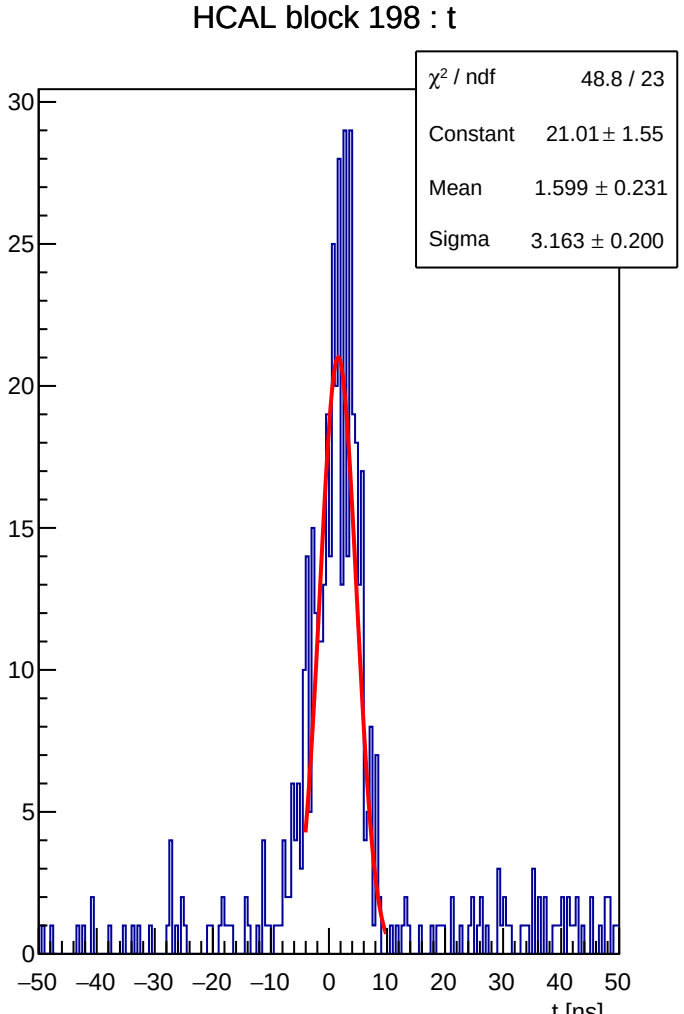

HCAL block 195 : t tw corr
χ² / ndf 21.27 / 18
Constant 15.6 ± 1.5
Mean −0.0337 ± 0.2311
Sigma 2.787 ± 0.267
t tw corr [ns]

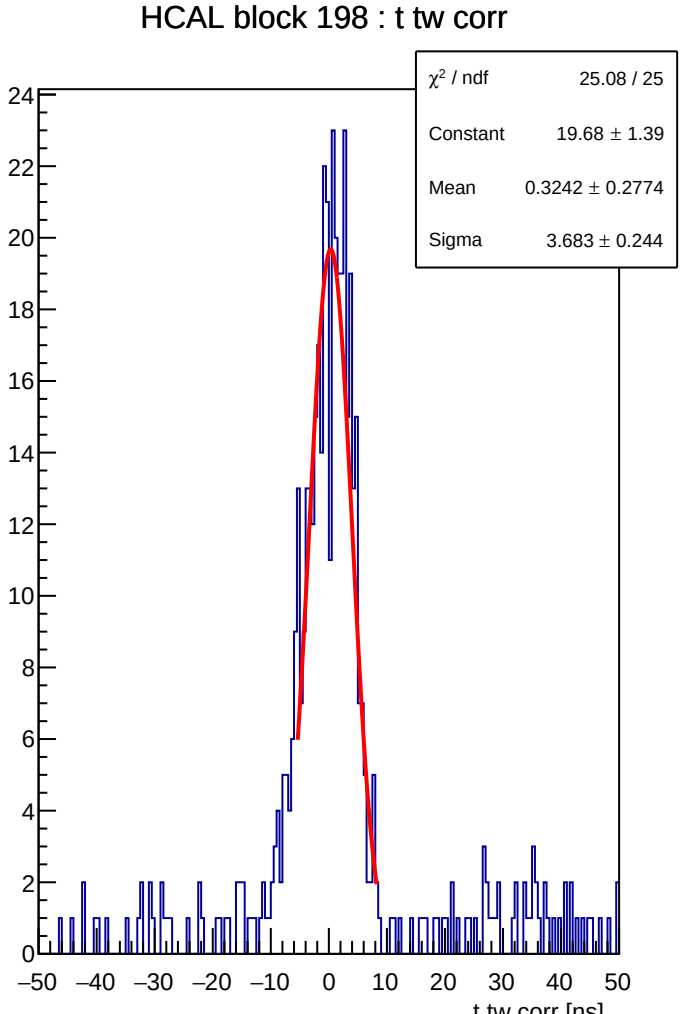

HCAL block 196 : t
χ² / ndf 20.92 / 17
Constant 21.49 ± 1.71
Mean −0.246 ± 0.290
Sigma 3.417 ± 0.369
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

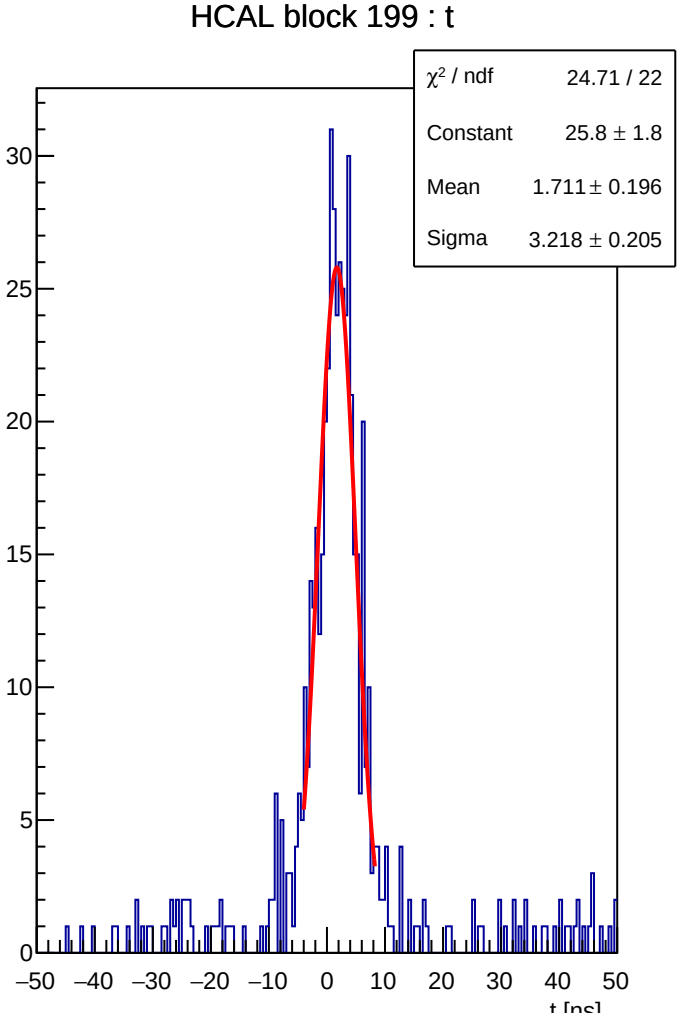

HCAL block 196 : t tw corr
χ² / ndf 15.39 / 17
Constant 20.59 ± 1.67
Mean 1.157 ± 0.340
Sigma 3.958 ± 0.548
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

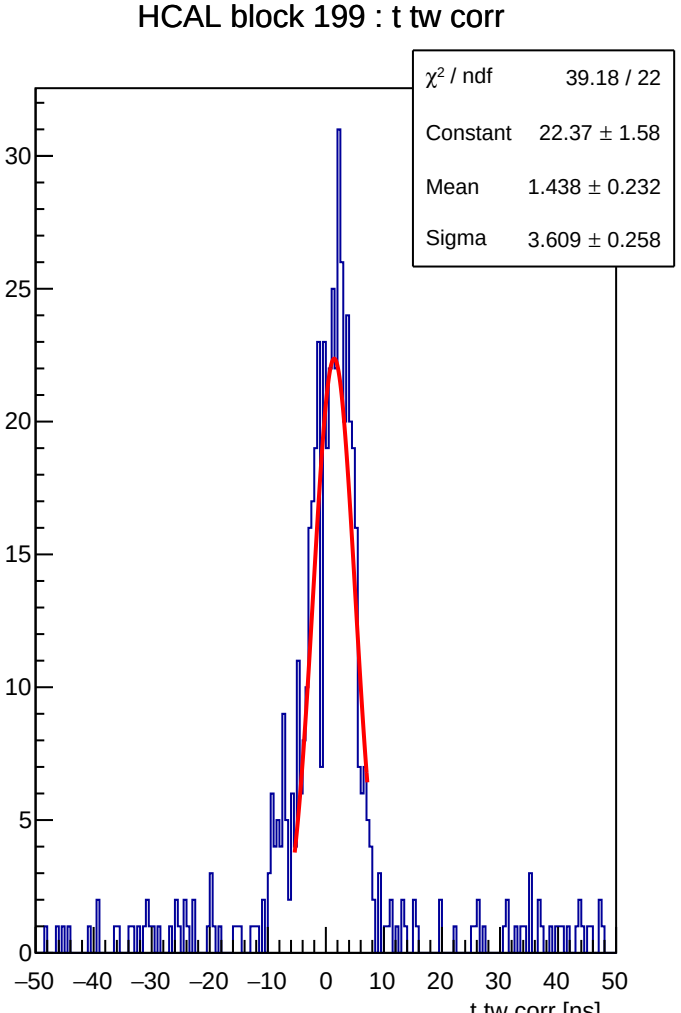

HCAL block 197 : t
χ² / ndf 25.71 / 20
Constant 10.69 ± 1.05
Mean 0.08529 ± 0.46476
Sigma 3.487 ± 0.387
t [ns]

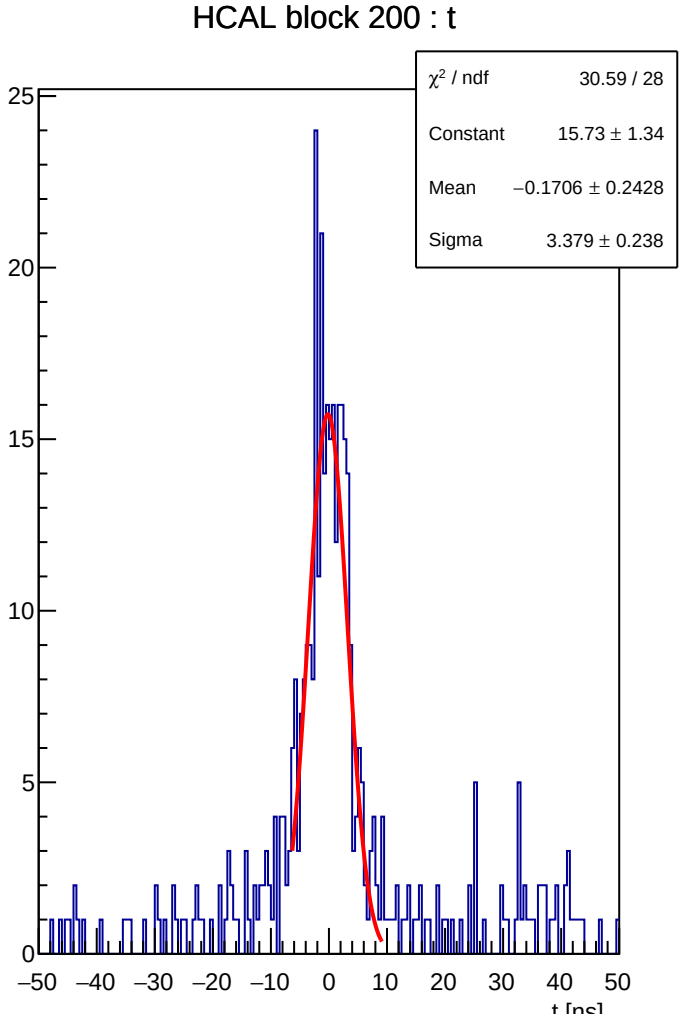

HCAL block 197 : t tw corr
χ² / ndf 16.56 / 20
Constant 11.43 ± 1.14
Mean −0.6932 ± 0.3338
Sigma 3.247 ± 0.325
t tw corr [ns]

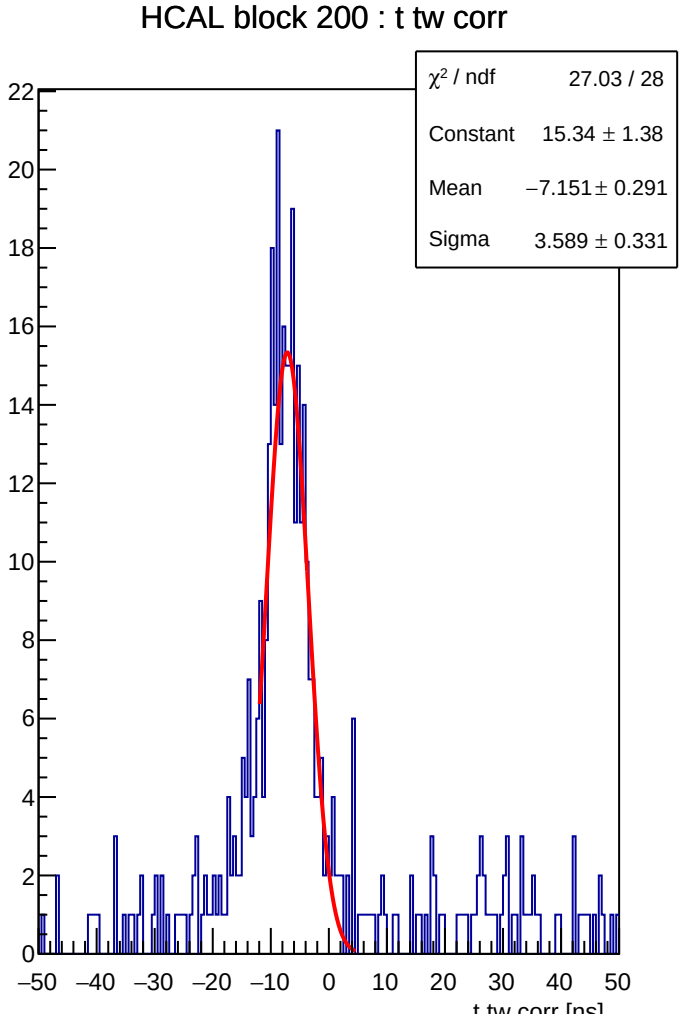

HCAL block 198 : t
χ² / ndf 48.8 / 23
Constant 21.01 ± 1.55
Mean 1.599 ± 0.231
Sigma 3.163 ± 0.200
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

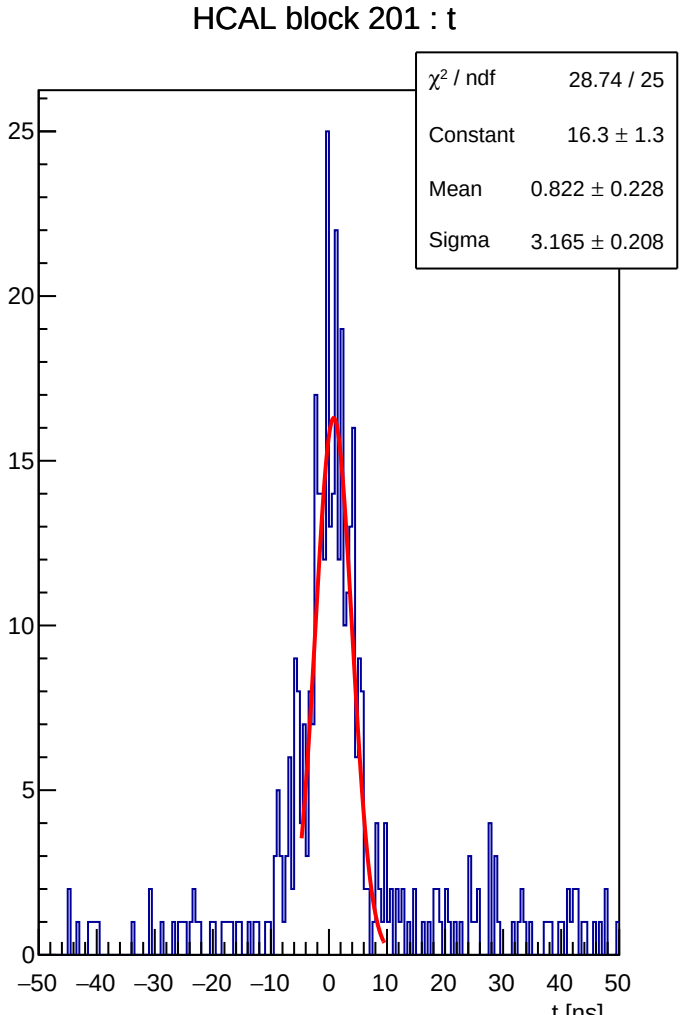

HCAL block 198 : t tw corr
χ² / ndf 25.08 / 25
Constant 19.68 ± 1.39
Mean 0.3242 ± 0.2774
Sigma 3.683 ± 0.244
24
22
20
18
16
14
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

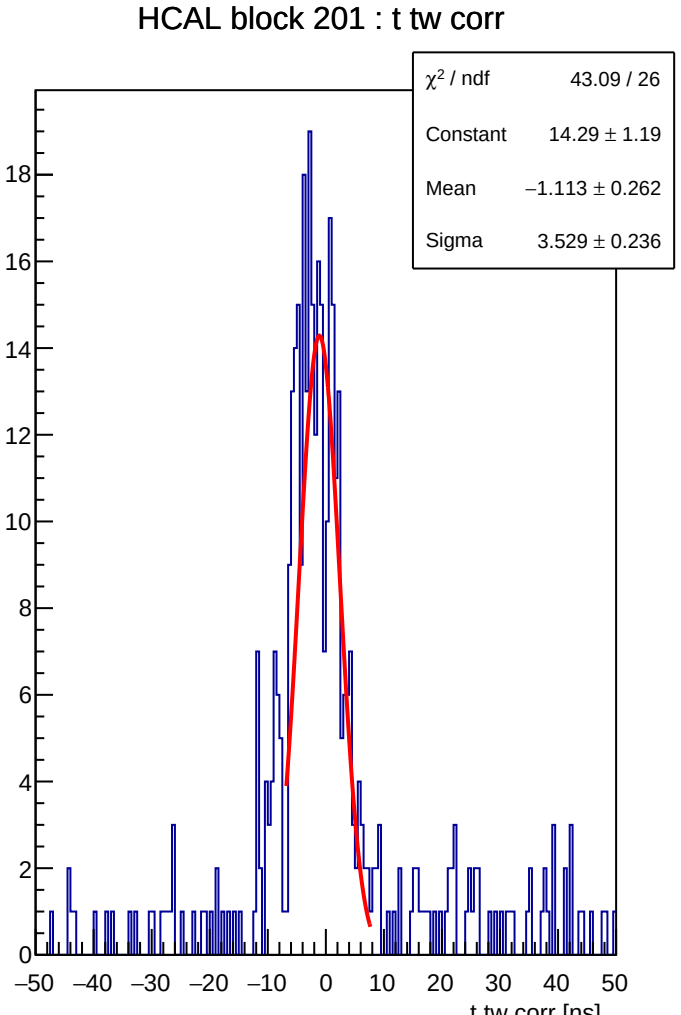

HCAL block 199 : t
χ² / ndf 24.71 / 22
Constant 25.8 ± 1.8
Mean 1.711 ± 0.196
Sigma 3.218 ± 0.205
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

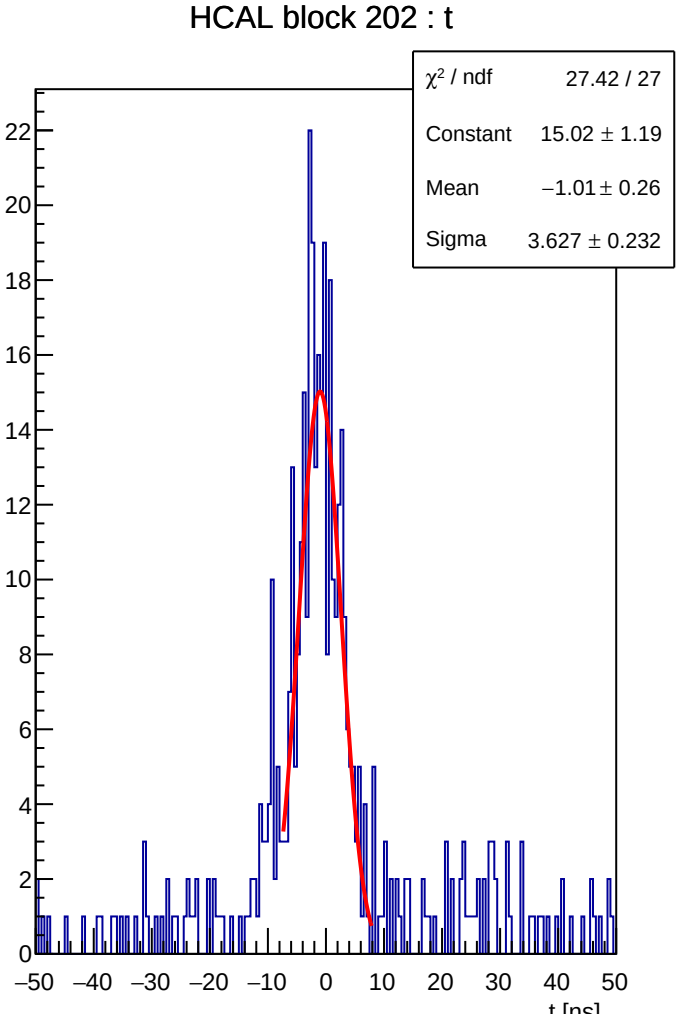

HCAL block 199 : t tw corr
χ² / ndf 39.18 / 22
Constant 22.37 ± 1.58
Mean 1.438 ± 0.232
Sigma 3.609 ± 0.258
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

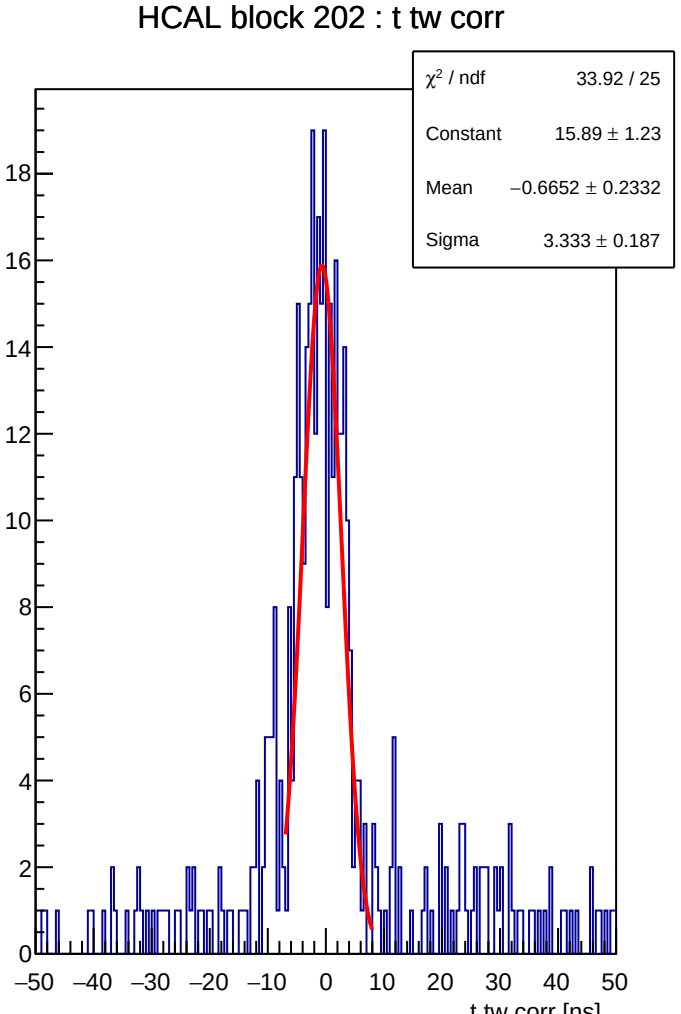

HCAL block 200 : t
χ² / ndf 30.59 / 28
Constant 15.73 ± 1.34
Mean −0.1706 ± 0.2428
Sigma 3.379 ± 0.238
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

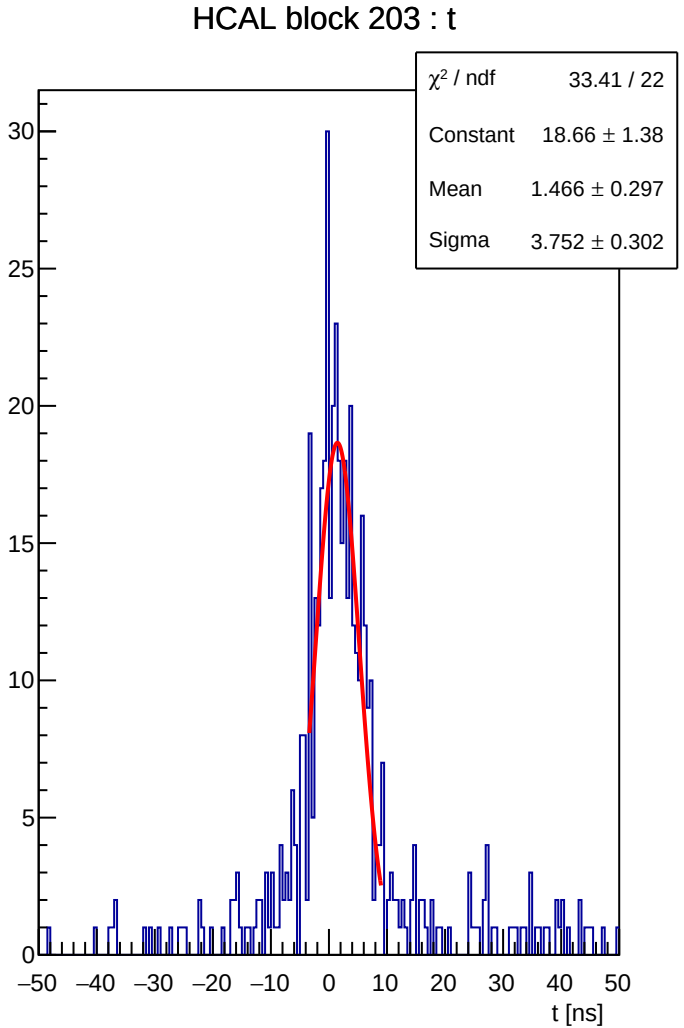

HCAL block 200 : t tw corr
χ² / ndf 27.03 / 28
Constant 15.34 ± 1.38
Mean −7.151 ± 0.291
Sigma 3.589 ± 0.331
22
20
18
16
14
12
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

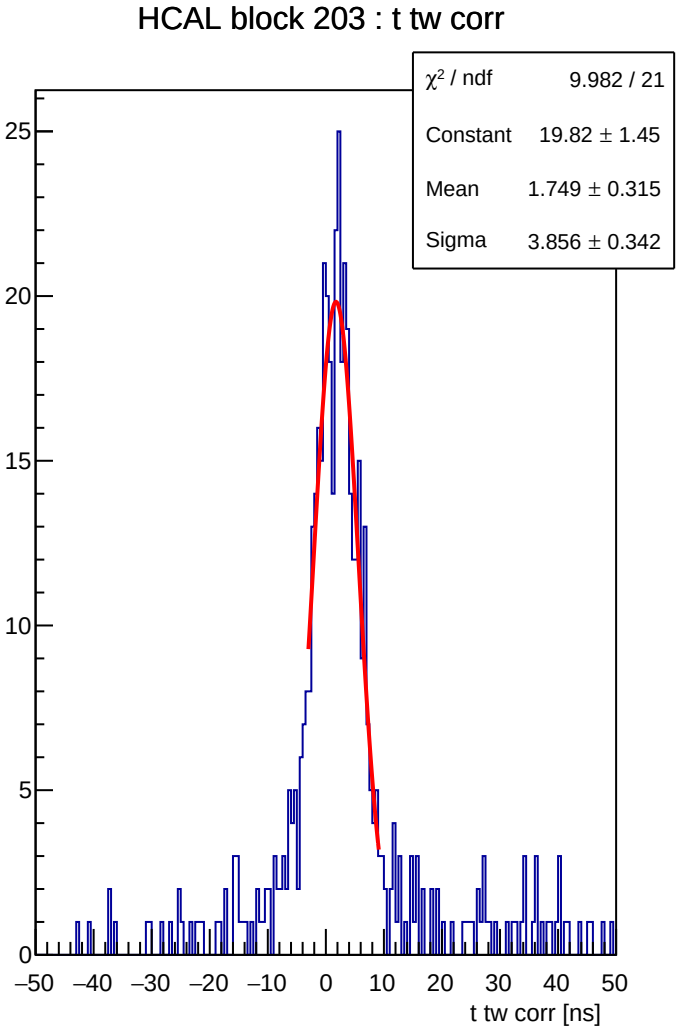

HCAL block 201 : t
χ² / ndf 28.74 / 25
Constant 16.3 ± 1.3
Mean 0.822 ± 0.228
Sigma 3.165 ± 0.208
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

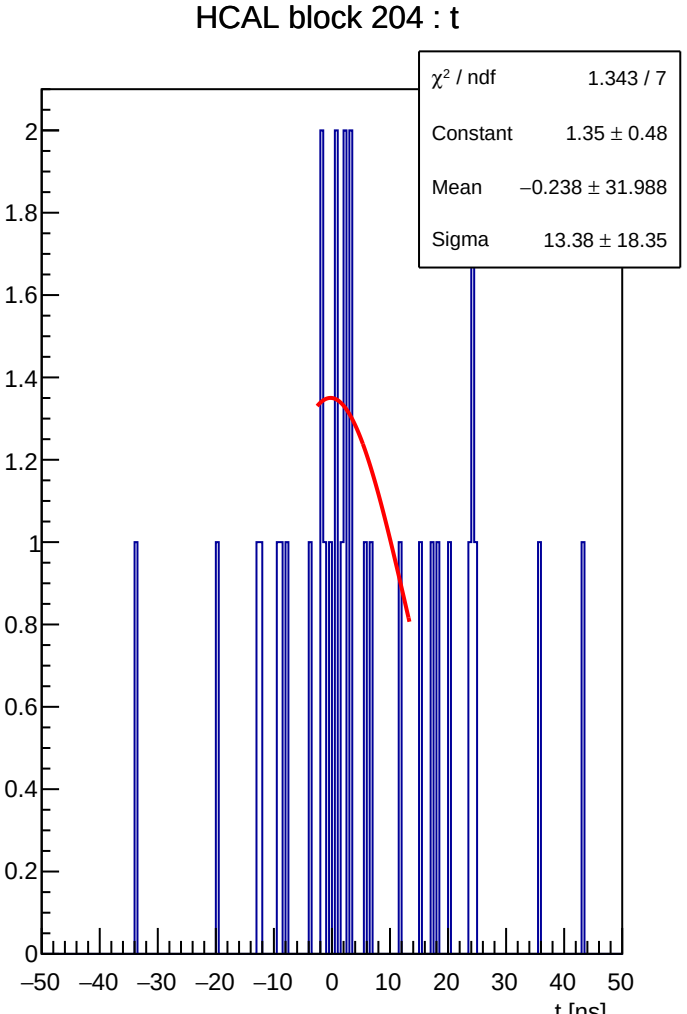

HCAL block 201 : t tw corr
χ² / ndf 43.09 / 26
Constant 14.29 ± 1.19
Mean –1.113 ± 0.262
Sigma 3.529 ± 0.236
18
16
14
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

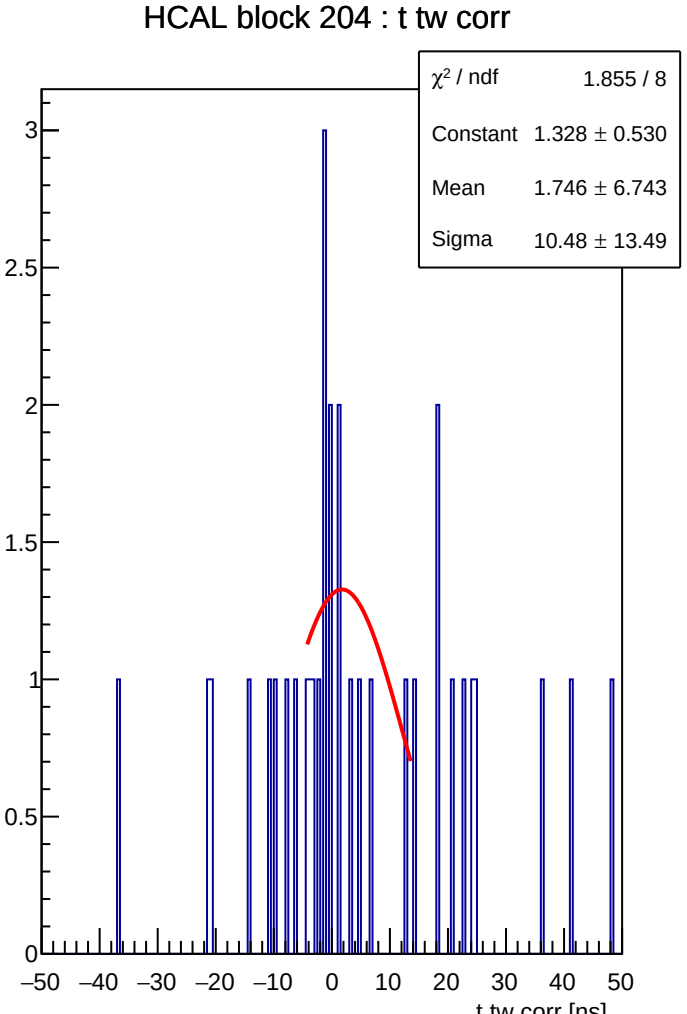

HCAL block 202 : t
χ² / ndf 27.42 / 27
Constant 15.02 ± 1.19
Mean −1.01 ± 0.26
Sigma 3.627 ± 0.232
t [ns]

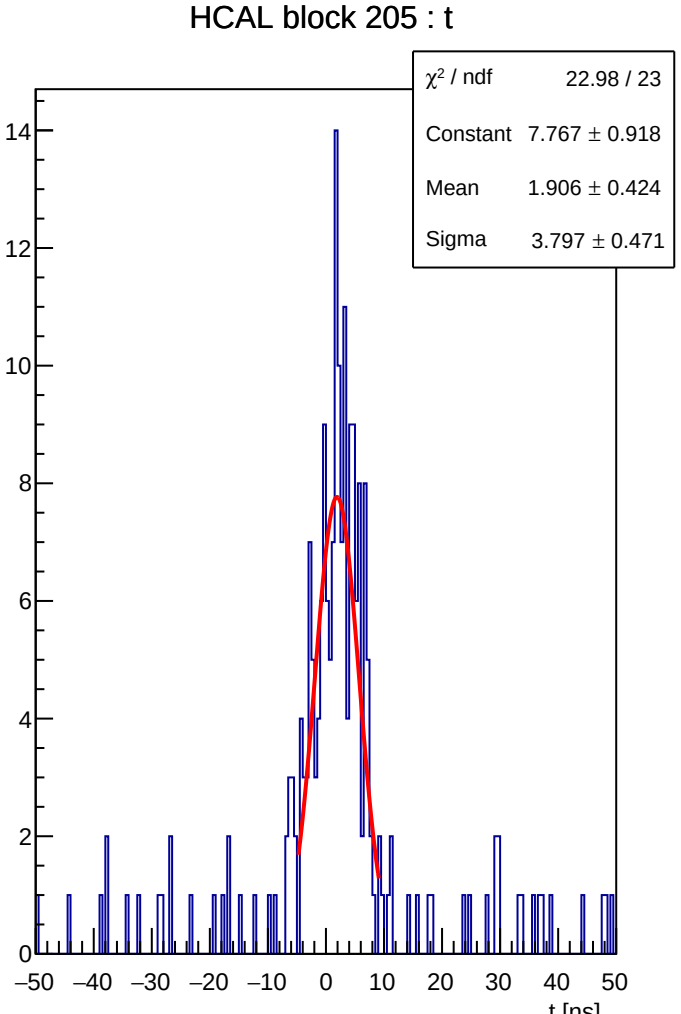

HCAL block 202 : t tw corr
χ² / ndf 33.92 / 25
Constant 15.89 ± 1.23
Mean −0.6652 ± 0.2332
Sigma 3.333 ± 0.187
t tw corr [ns]

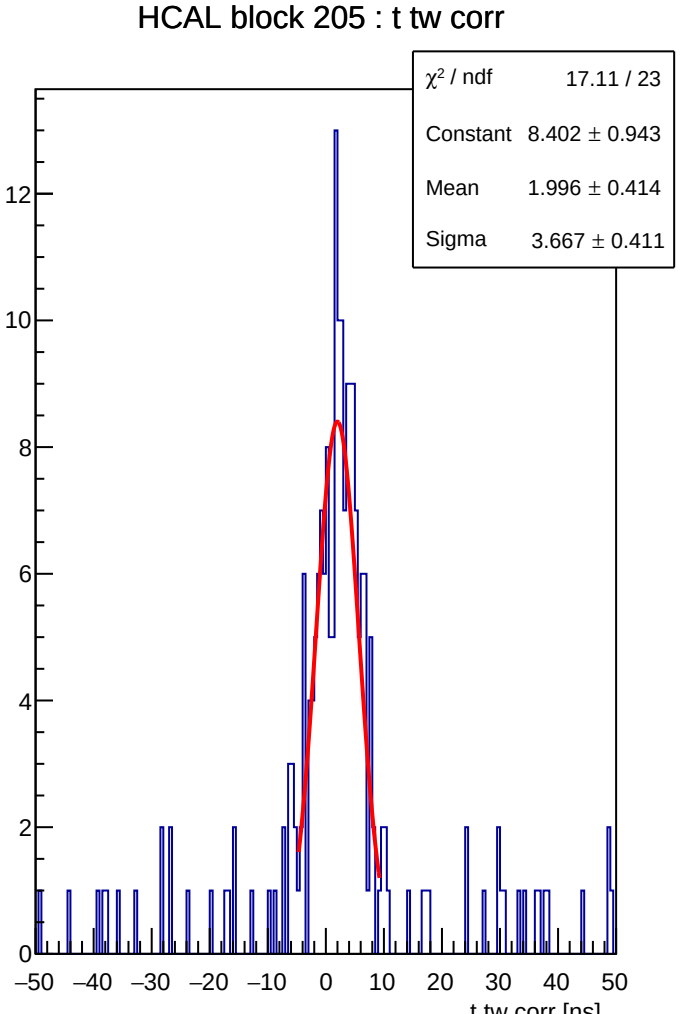

HCAL block 203 : t
χ² / ndf 33.41 / 22
Constant 18.66 ± 1.38
Mean 1.466 ± 0.297
Sigma 3.752 ± 0.302
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

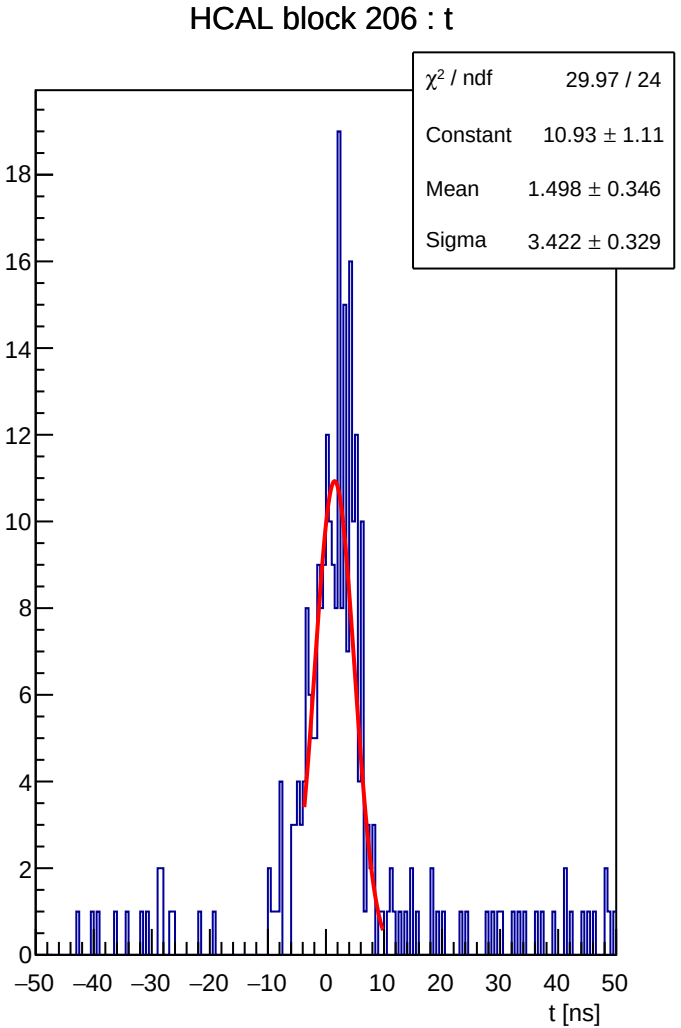

HCAL block 203 : t tw corr
χ² / ndf 9.982 / 21
Constant 19.82 ± 1.45
Mean 1.749 ± 0.315
Sigma 3.856 ± 0.342
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

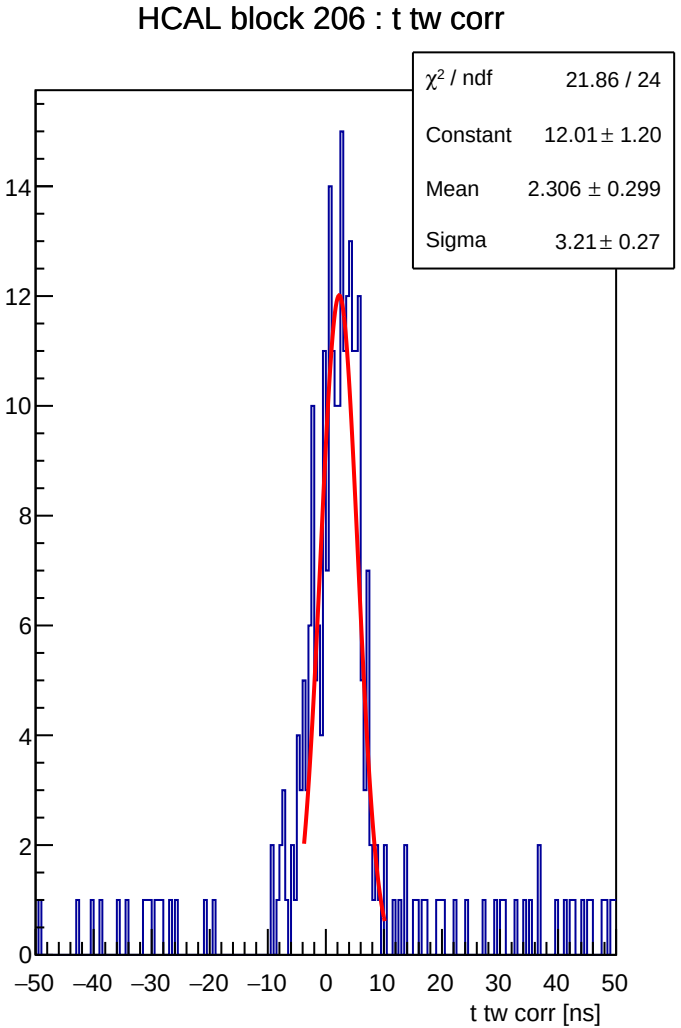

HCAL block 204 : t
χ² / ndf 1.343 / 7
Constant 1.35 ± 0.48
Mean −0.238 ± 31.988
Sigma 13.38 ± 18.35
t [ns]

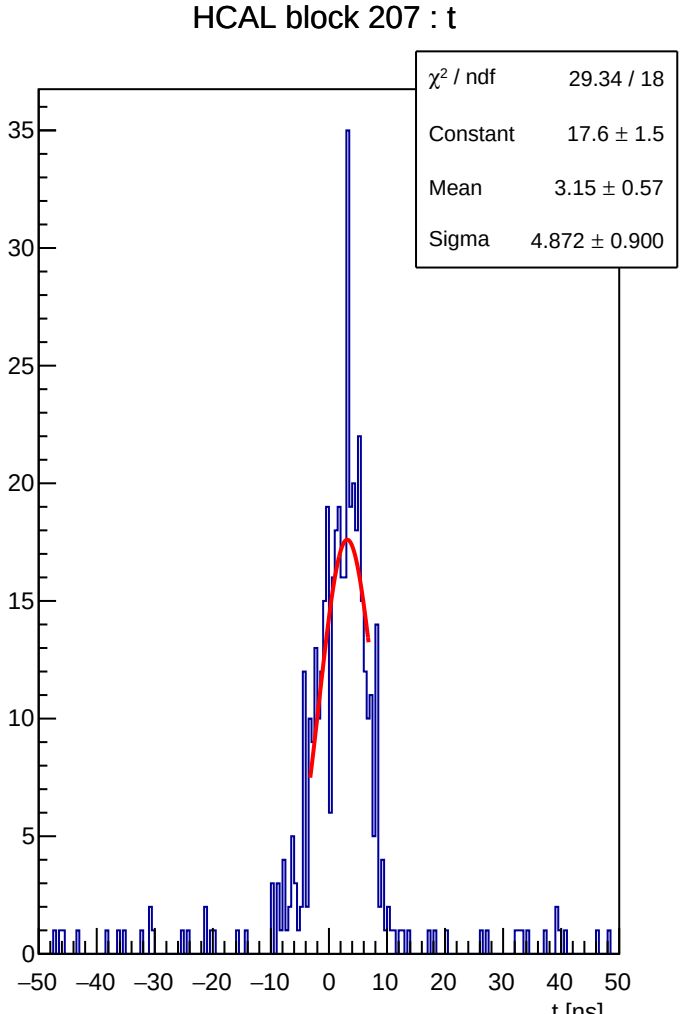

HCAL block 204 : t tw corr
χ² / ndf 1.855 / 8
Constant 1.328 ± 0.530
Mean 1.746 ± 6.743
Sigma 10.48 ± 13.49
t tw corr [ns]

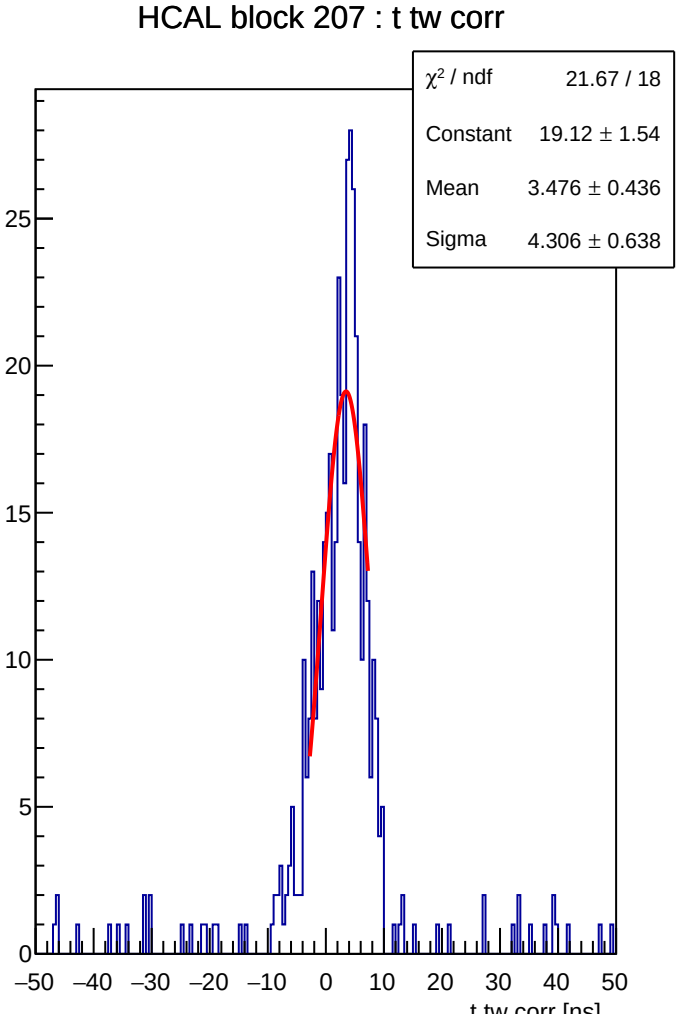

HCAL block 205 : t
χ² / ndf 22.98 / 23
Constant 7.767 ± 0.918
Mean 1.906 ± 0.424
Sigma 3.797 ± 0.471
14
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

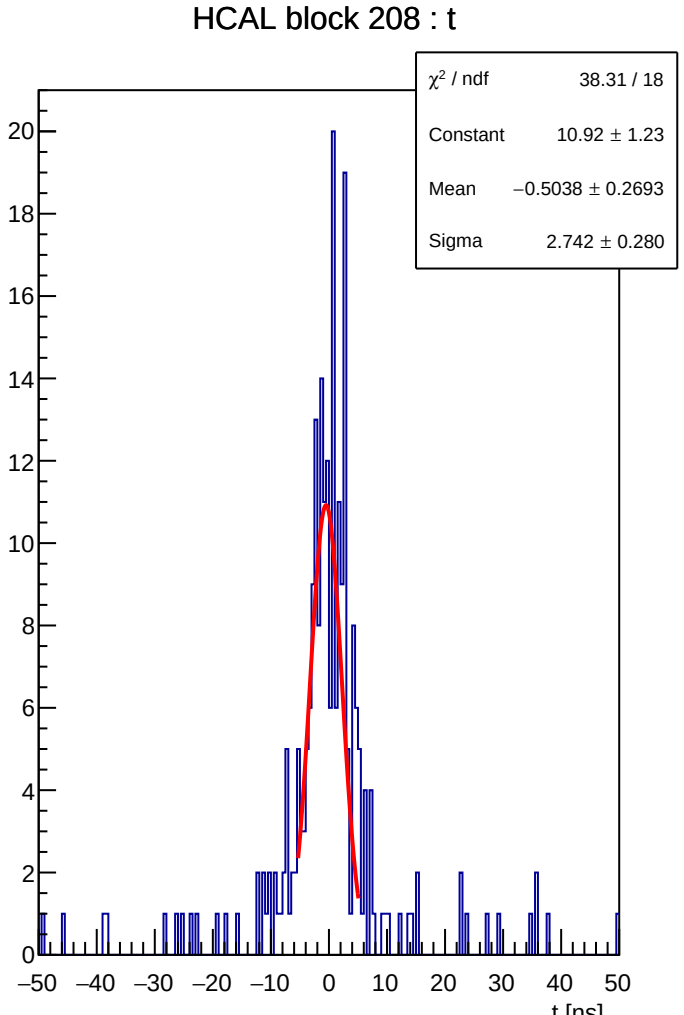

HCAL block 205 : t tw corr
χ² / ndf 17.11 / 23
Constant 8.402 ± 0.943
Mean 1.996 ± 0.414
Sigma 3.667 ± 0.411
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

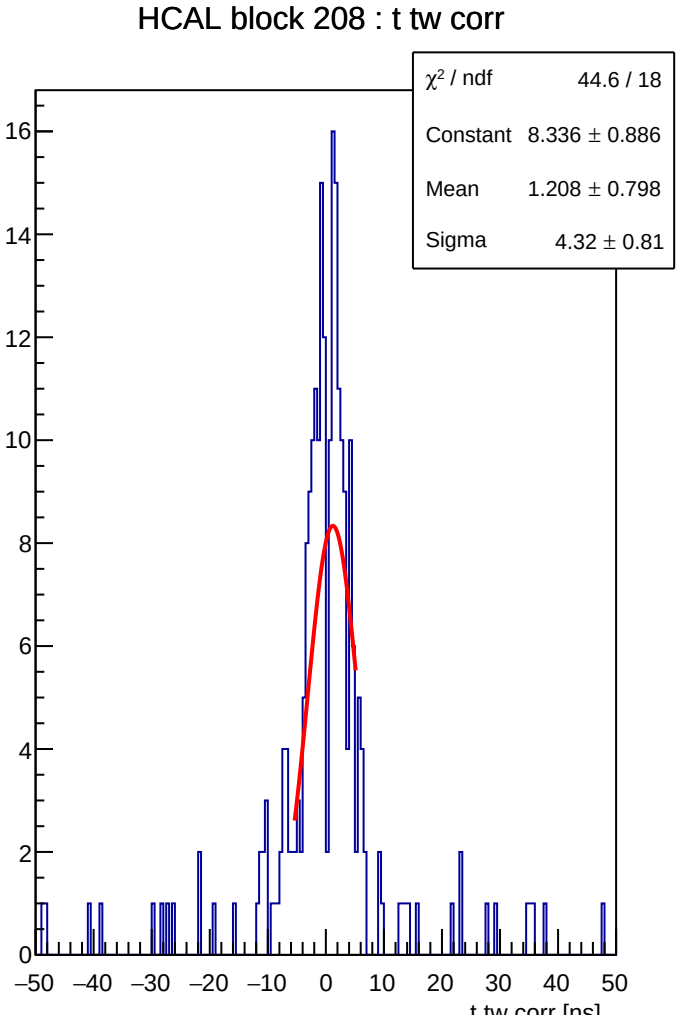

HCAL block 206 : t
χ² / ndf 29.97 / 24
Constant 10.93 ± 1.11
Mean 1.498 ± 0.346
Sigma 3.422 ± 0.329
t [ns]

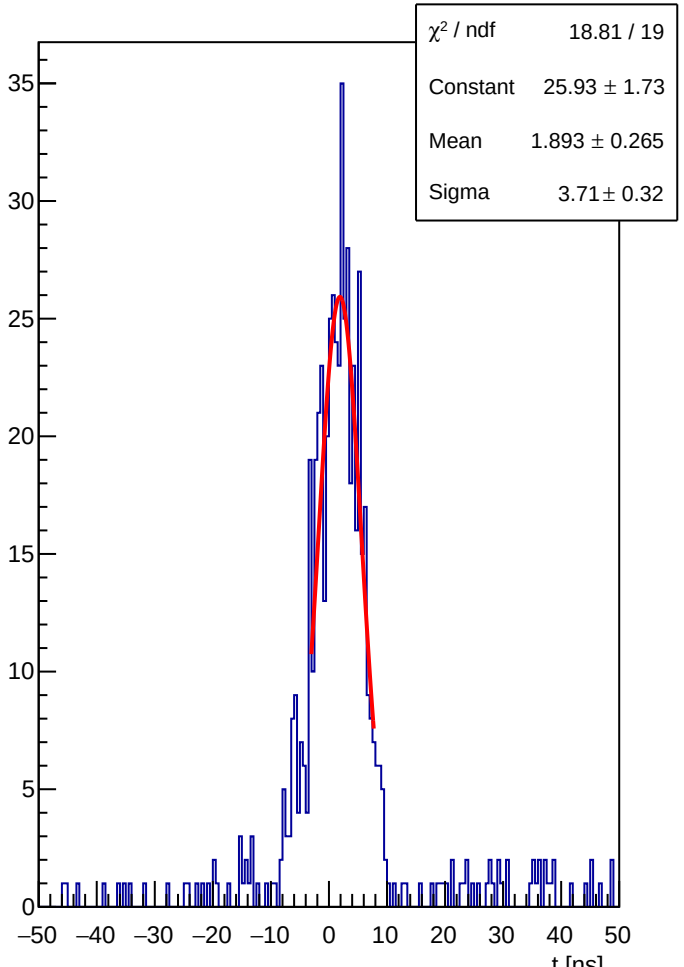

HCAL block 206 : t tw corr
χ² / ndf 21.86 / 24
Constant 12.01 ± 1.20
Mean 2.306 ± 0.299
Sigma 3.21 ± 0.27
t tw corr [ns]

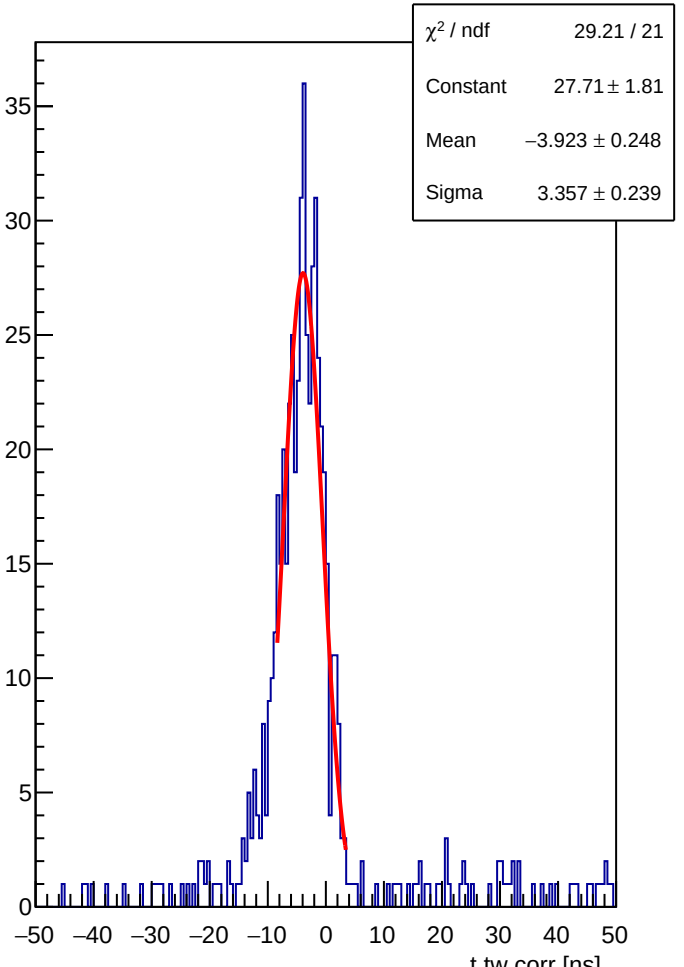

HCAL block 207 : t
χ² / ndf 29.34 / 18
Constant 17.6 ± 1.5
Mean 3.15 ± 0.57
Sigma 4.872 ± 0.900
35
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

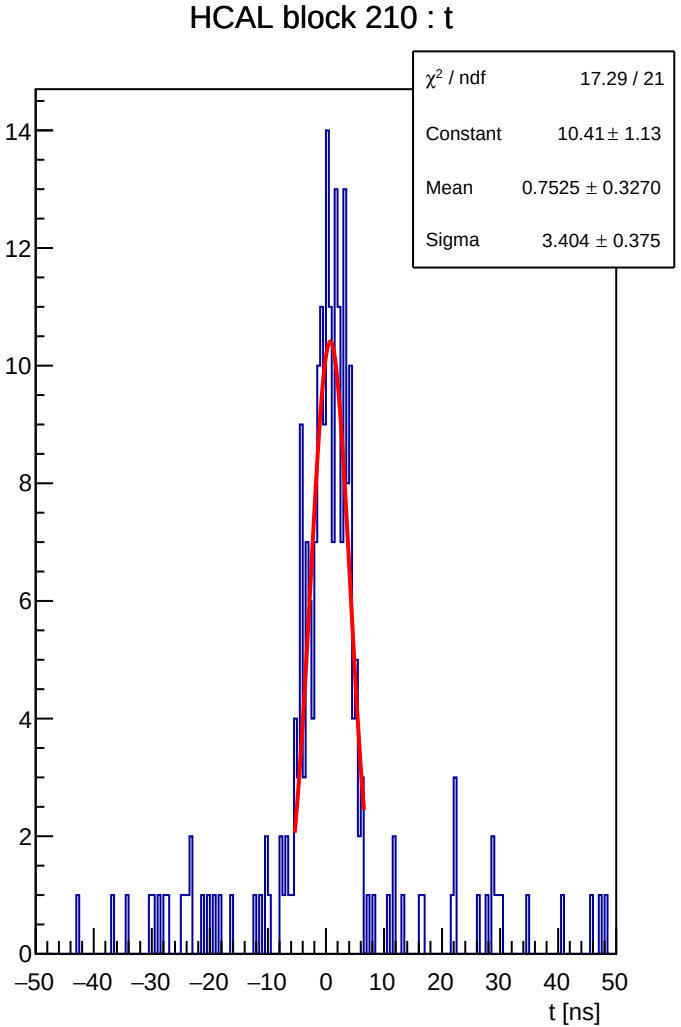

HCAL block 207 : t tw corr
χ² / ndf 21.67 / 18
Constant 19.12 ± 1.54
Mean 3.476 ± 0.436
Sigma 4.306 ± 0.638
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

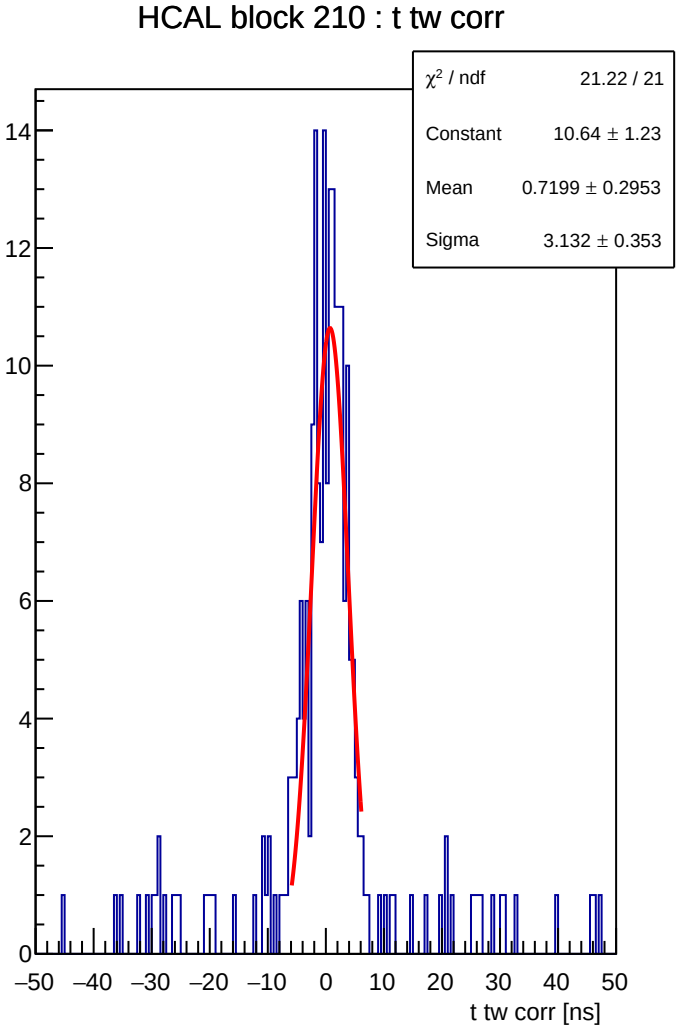

HCAL block 208 : t
χ² / ndf 38.31 / 18
Constant 10.92 ± 1.23
Mean −0.5038 ± 0.2693
Sigma 2.742 ± 0.280
t [ns]

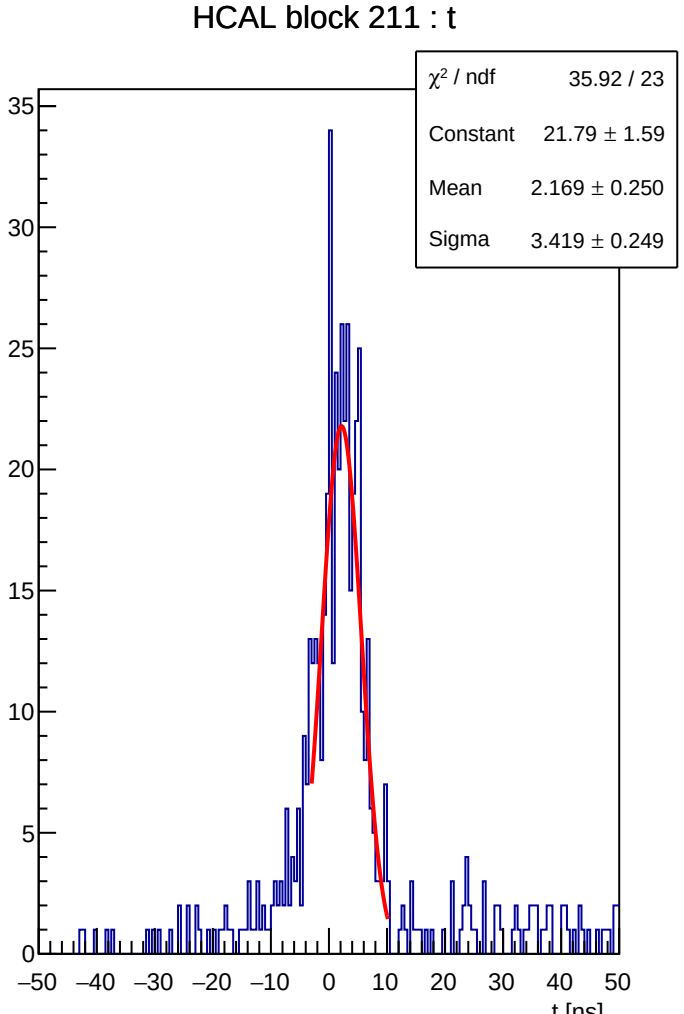

HCAL block 208 : t tw corr
χ² / ndf 44.6 / 18
Constant 8.336 ± 0.886
Mean 1.208 ± 0.798
Sigma 4.32 ± 0.81
t tw corr [ns]

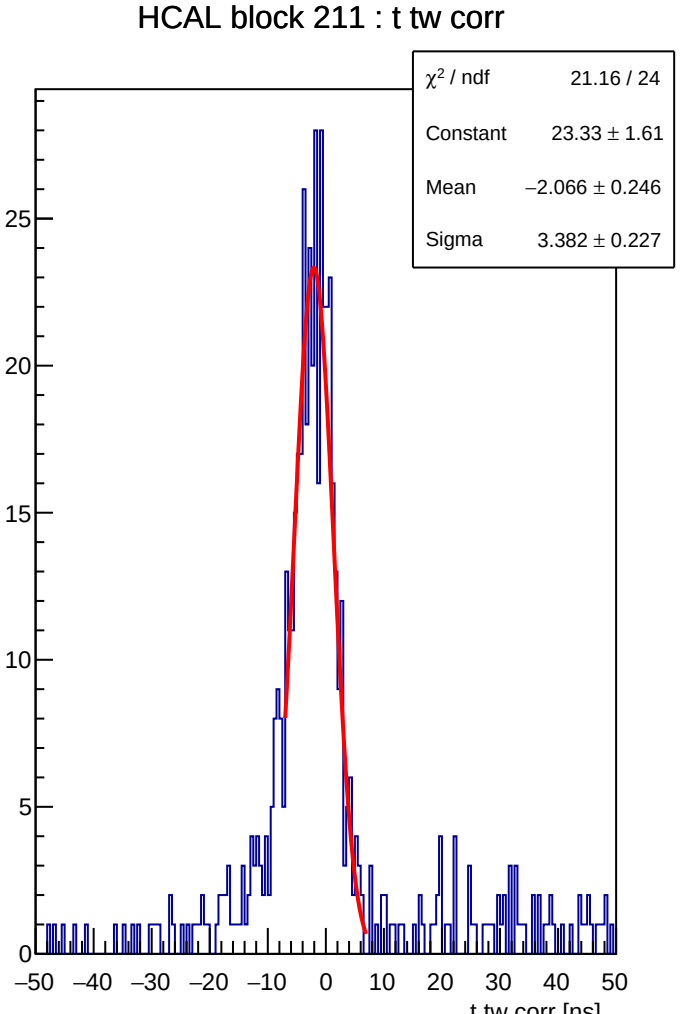

HCAL block 209 : t
χ² / ndf 18.81 / 19
Constant 25.93 ± 1.73
Mean 1.893 ± 0.265
Sigma 3.71 ± 0.32
t [ns]

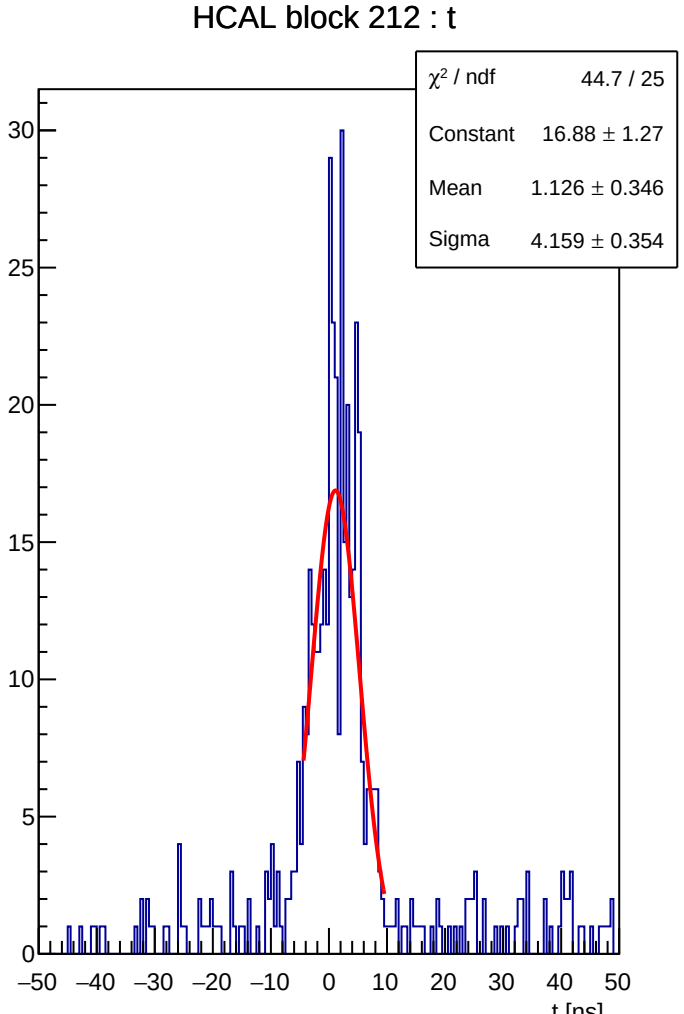

HCAL block 209 : t tw corr
χ² / ndf 29.21 / 21
Constant 27.71 ± 1.81
Mean −3.923 ± 0.248
Sigma 3.357 ± 0.239
t tw corr [ns]

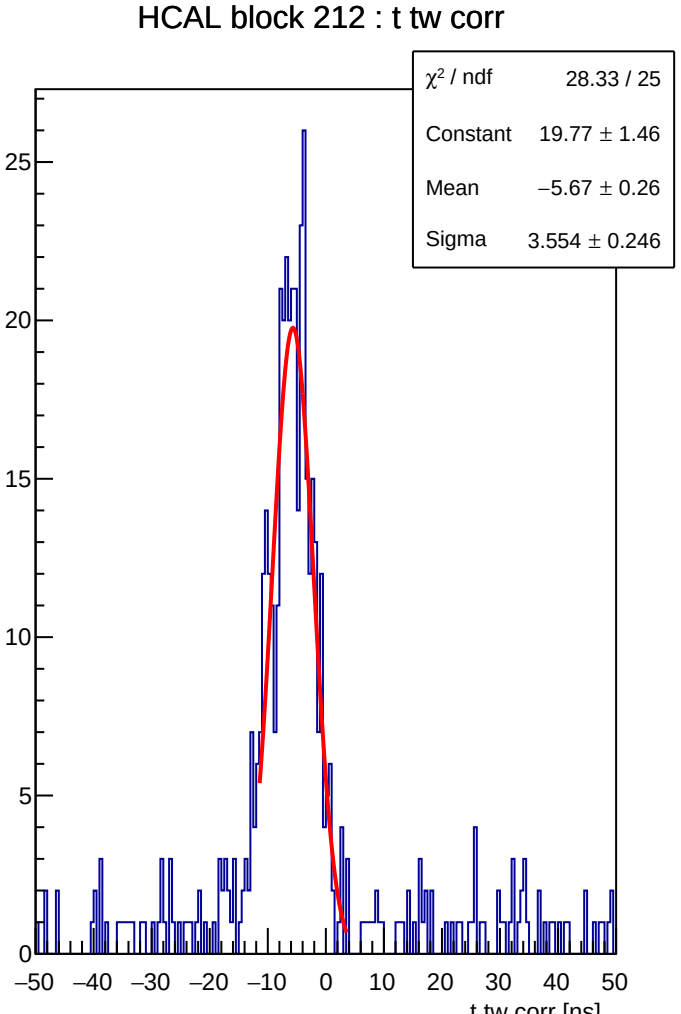

HCAL block 210 : t
χ² / ndf 17.29 / 21
Constant 10.41 ± 1.13
Mean 0.7525 ± 0.3270
Sigma 3.404 ± 0.375
14
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

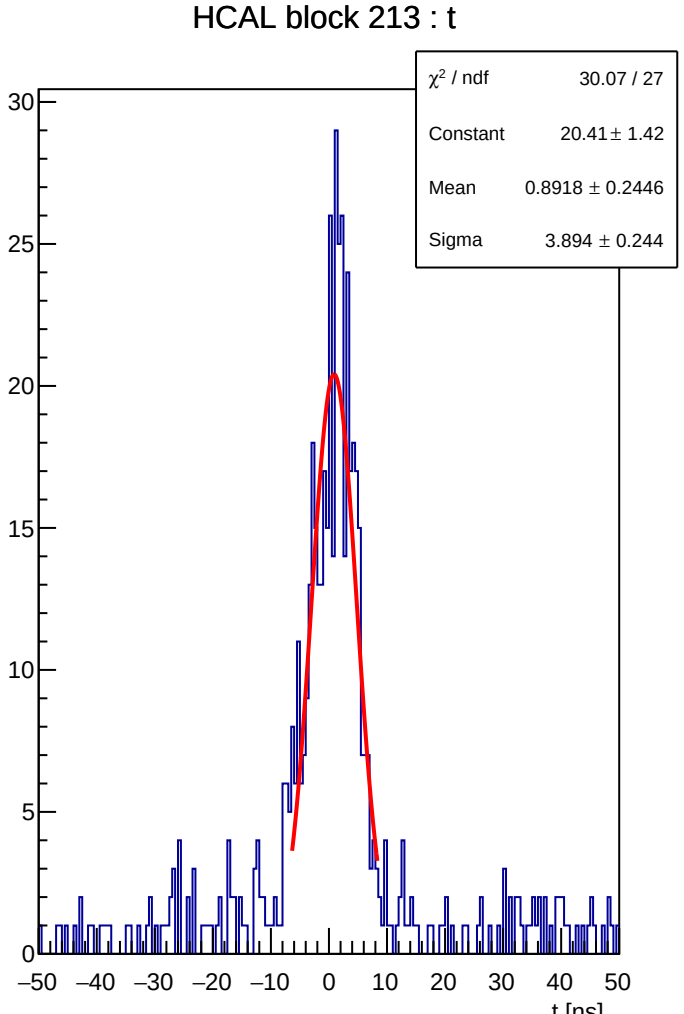

HCAL block 210 : t tw corr
χ² / ndf 21.22 / 21
Constant 10.64 ± 1.23
Mean 0.7199 ± 0.2953
Sigma 3.132 ± 0.353
14
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

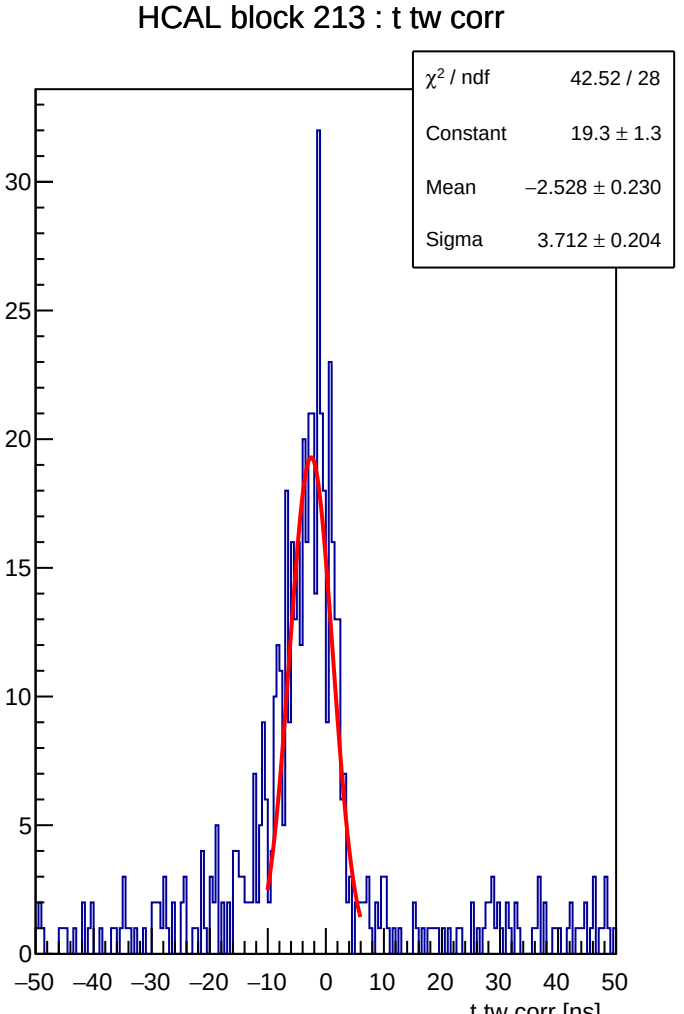

HCAL block 211 : t
χ² / ndf 35.92 / 23
Constant 21.79 ± 1.59
Mean 2.169 ± 0.250
Sigma 3.419 ± 0.249
35
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

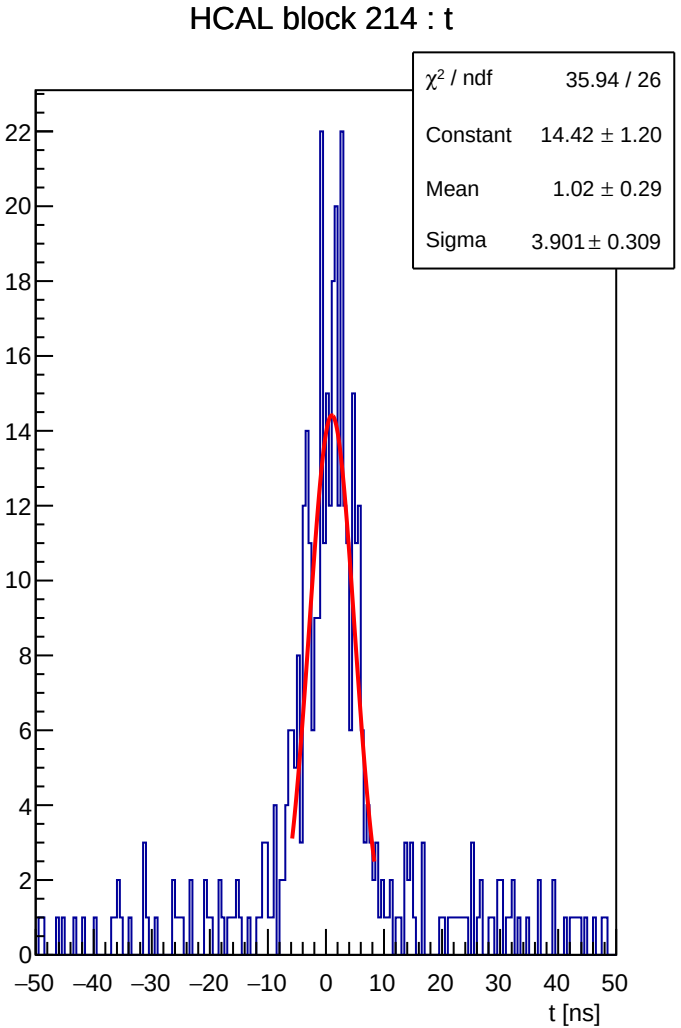

HCAL block 211 : t tw corr
χ² / ndf 21.16 / 24
Constant 23.33 ± 1.61
Mean –2.066 ± 0.246
Sigma 3.382 ± 0.227
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

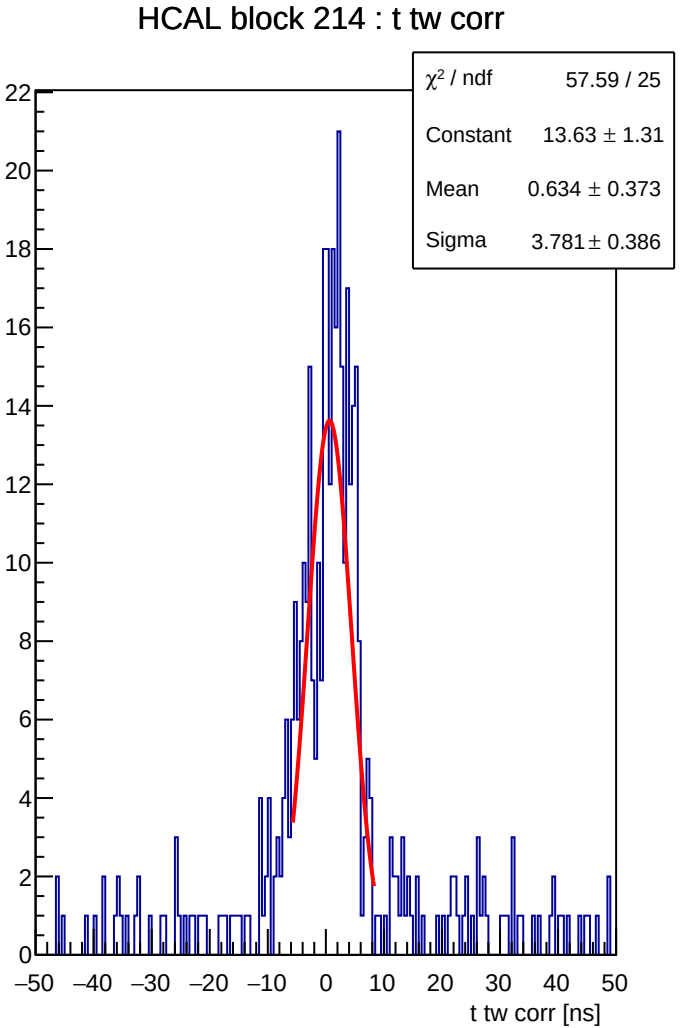

HCAL block 212 : t
χ² / ndf 44.7 / 25
Constant 16.88 ± 1.27
Mean 1.126 ± 0.346
Sigma 4.159 ± 0.354
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

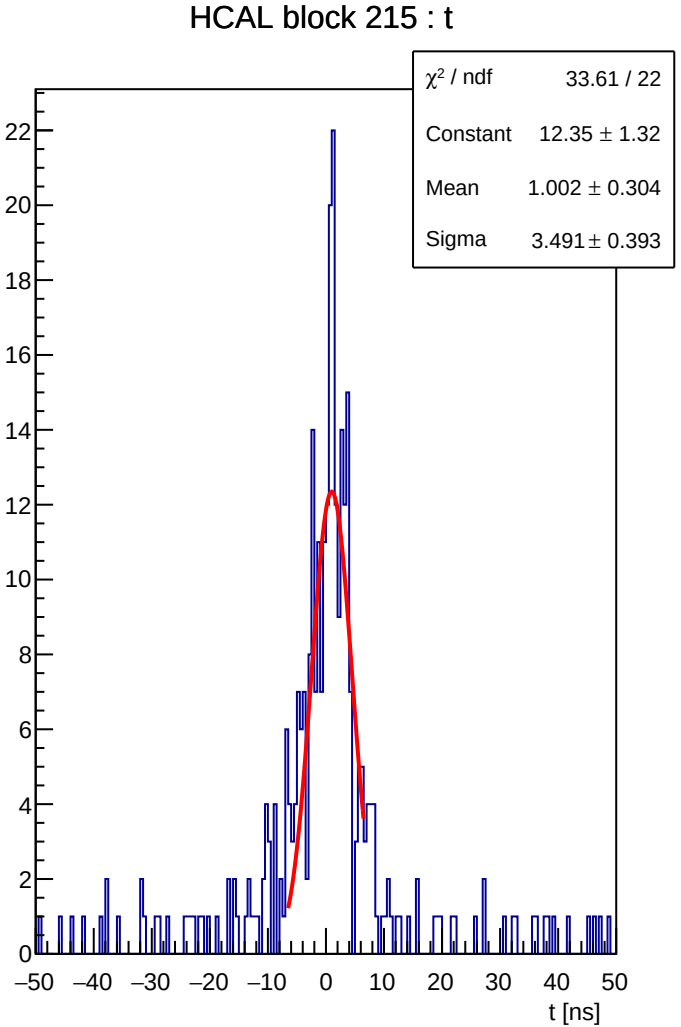

HCAL block 212 : t tw corr
χ² / ndf 28.33 / 25
Constant 19.77 ± 1.46
Mean –5.67 ± 0.26
Sigma 3.554 ± 0.246
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

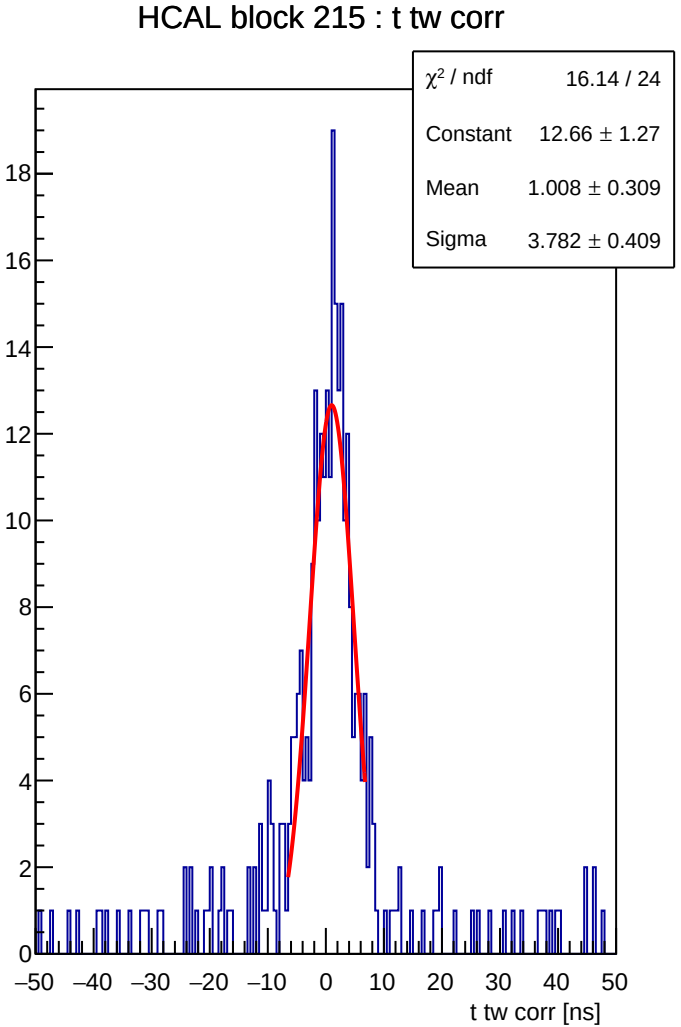

HCAL block 213 : t
χ² / ndf 30.07 / 27
Constant 20.41 ± 1.42
Mean 0.8918 ± 0.2446
Sigma 3.894 ± 0.244
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

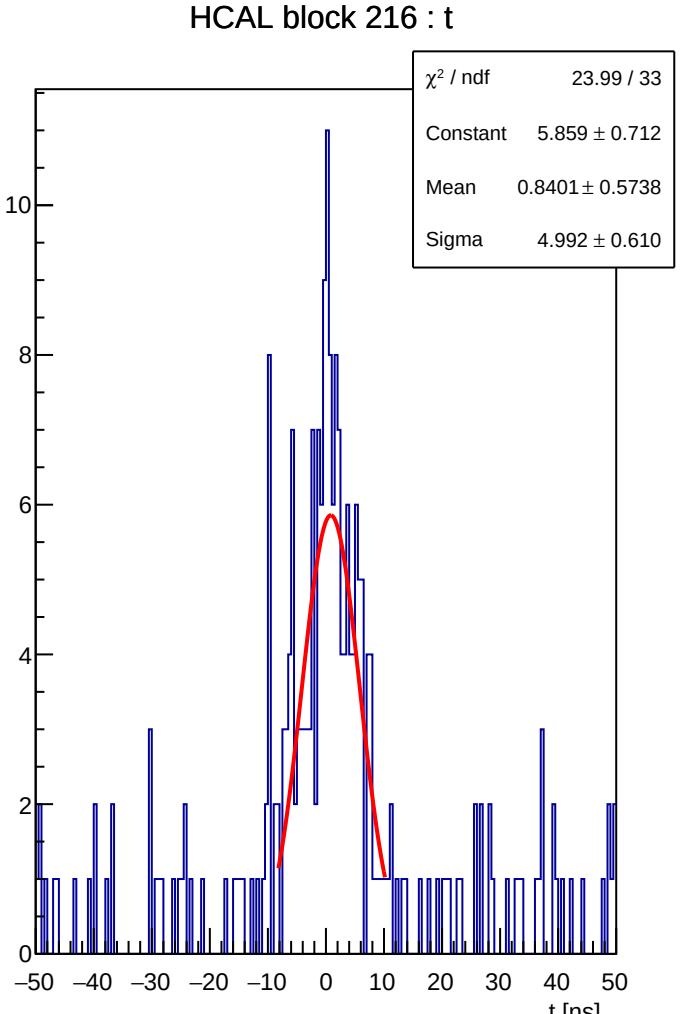

HCAL block 213 : t tw corr
χ² / ndf 42.52 / 28
Constant 19.3 ± 1.3
Mean –2.528 ± 0.230
Sigma 3.712 ± 0.204
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

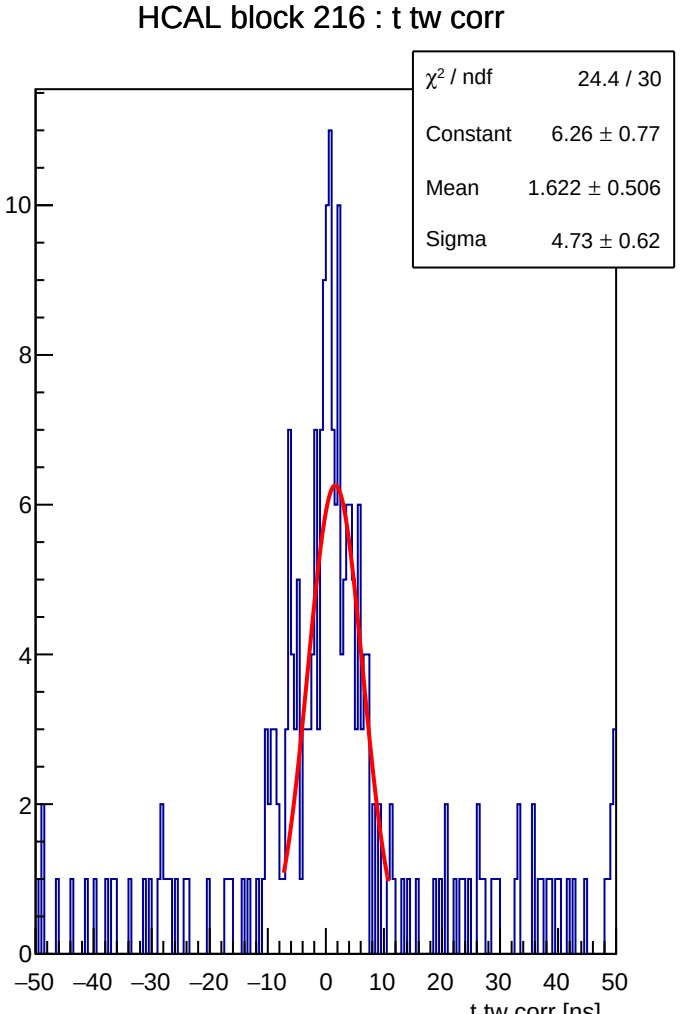

HCAL block 214 : t
χ² / ndf 35.94 / 26
Constant 14.42 ± 1.20
Mean 1.02 ± 0.29
Sigma 3.901 ± 0.309
t [ns]

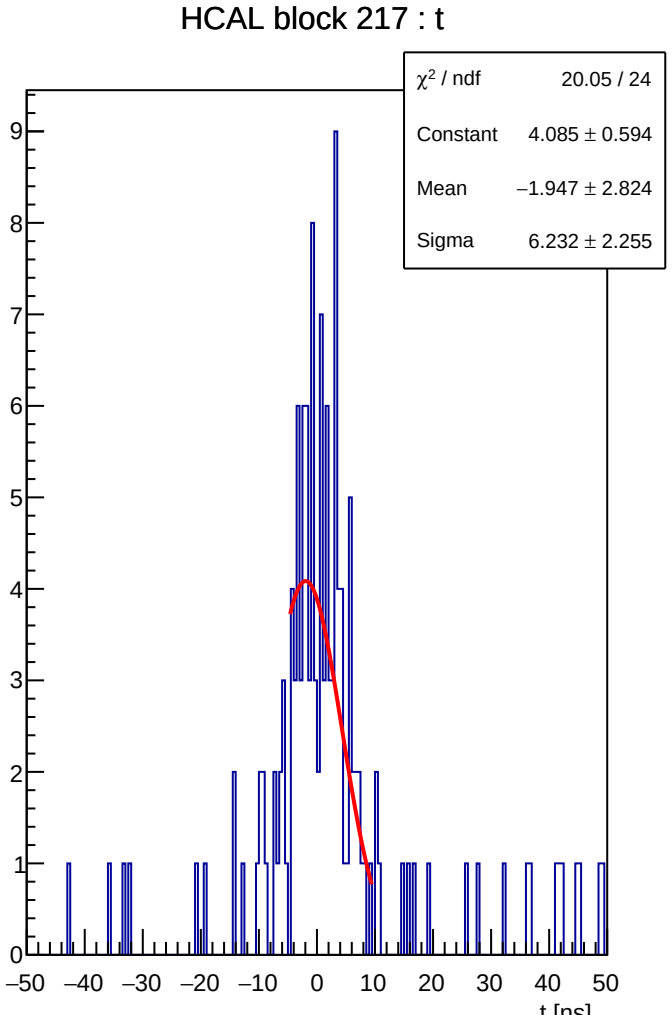

HCAL block 214 : t tw corr
χ² / ndf 57.59 / 25
Constant 13.63 ± 1.31
Mean 0.634 ± 0.373
Sigma 3.781 ± 0.386
t tw corr [ns]

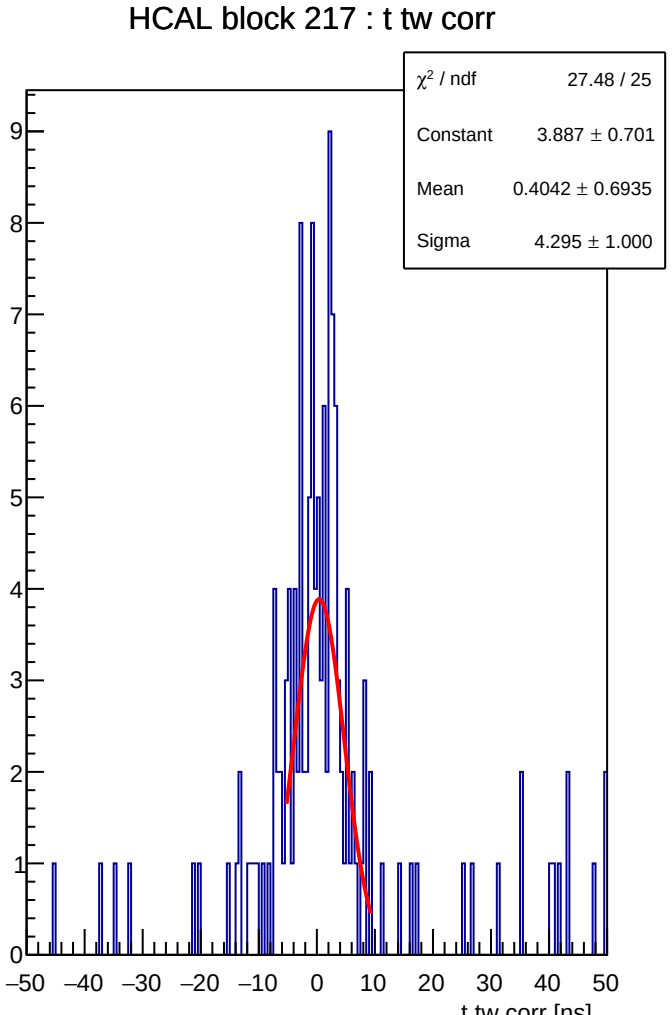

HCAL block 215 : t
χ² / ndf 33.61 / 22
Constant 12.35 ± 1.32
Mean 1.002 ± 0.304
Sigma 3.491 ± 0.393
t [ns]

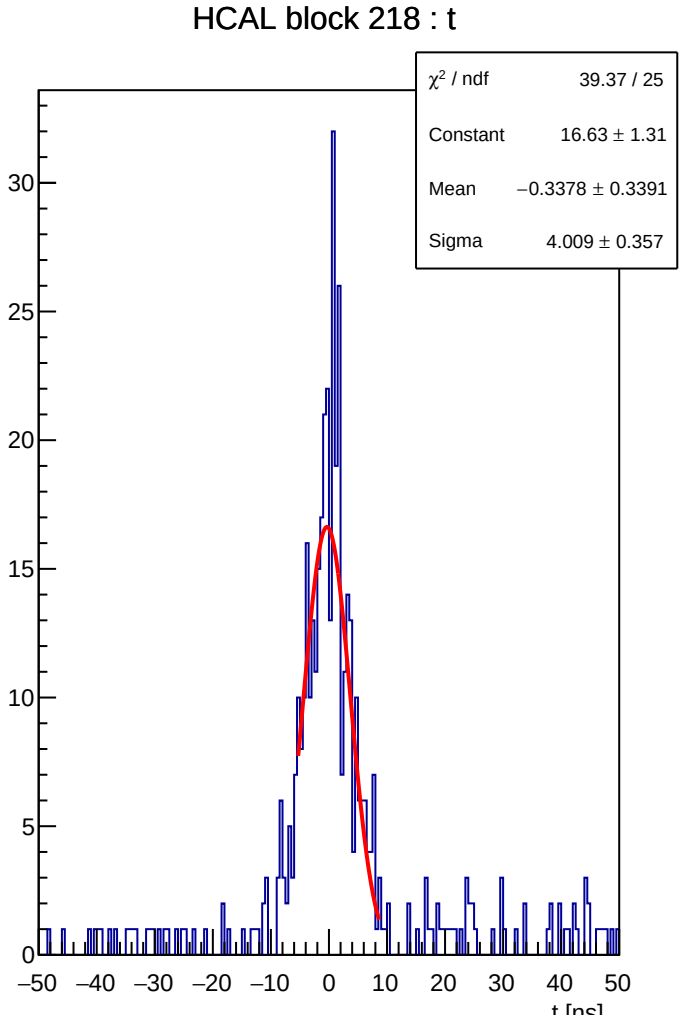

HCAL block 215 : t tw corr
χ² / ndf 16.14 / 24
Constant 12.66 ± 1.27
Mean 1.008 ± 0.309
Sigma 3.782 ± 0.409
t tw corr [ns]

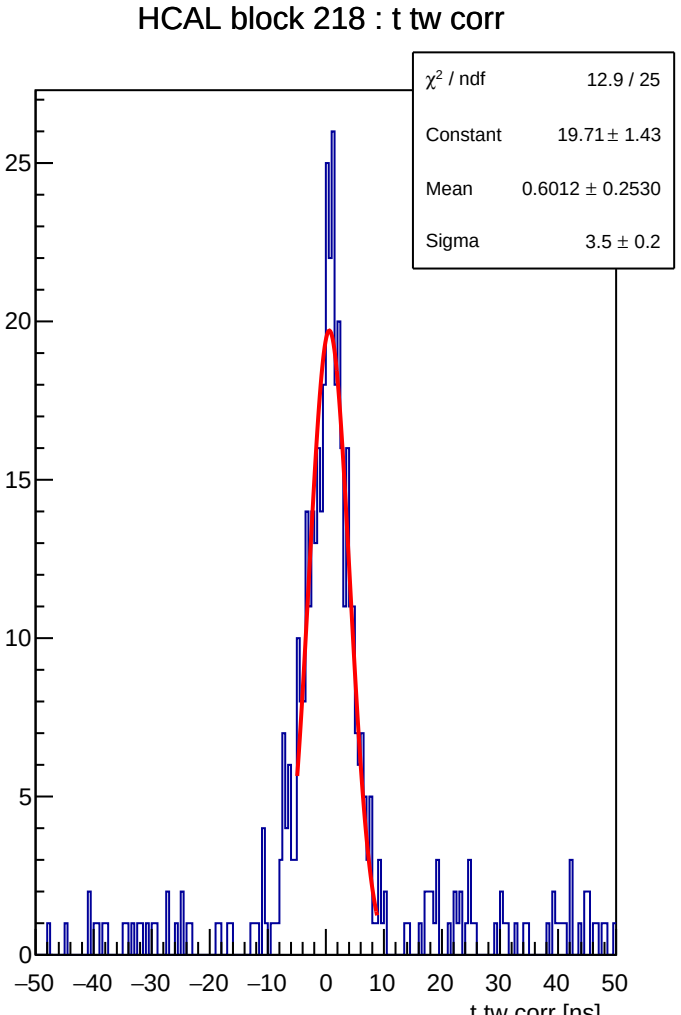

HCAL block 216 : t
χ² / ndf 23.99 / 33
Constant 5.859 ± 0.712
Mean 0.8401 ± 0.5738
Sigma 4.992 ± 0.610
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

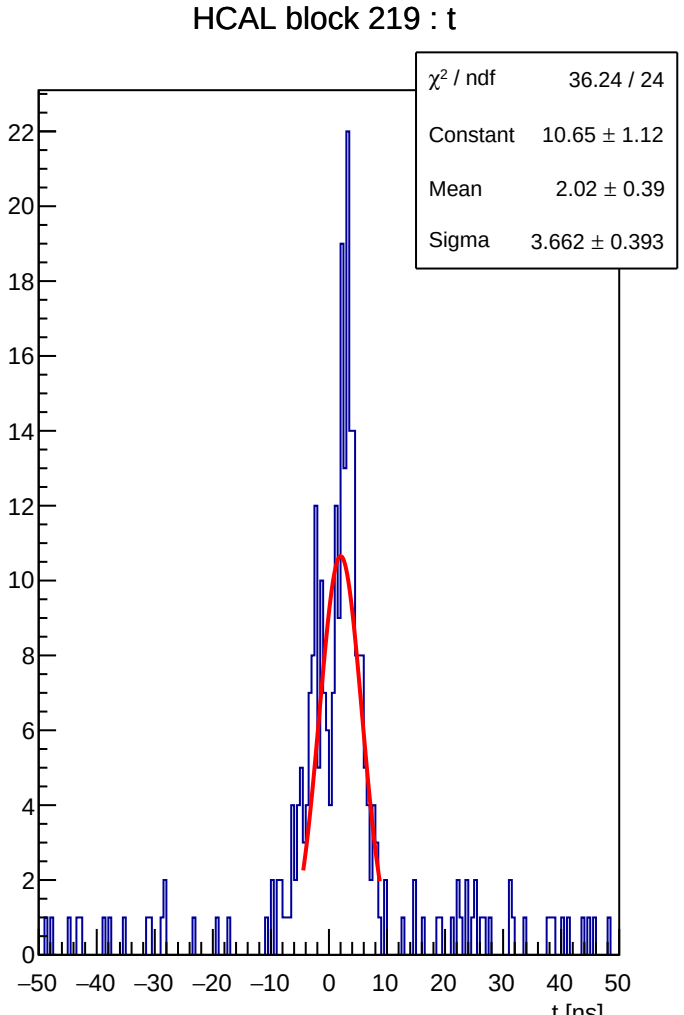

HCAL block 216 : t tw corr
χ² / ndf 24.4 / 30
Constant 6.26 ± 0.77
Mean 1.622 ± 0.506
Sigma 4.73 ± 0.62
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

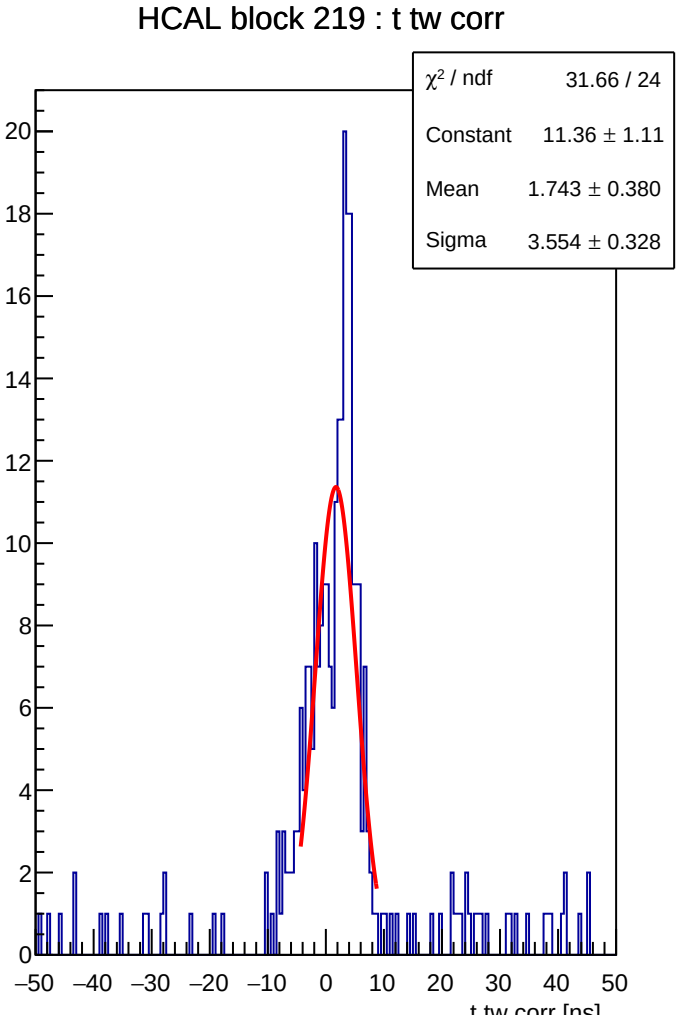

HCAL block 217 : t
χ² / ndf 20.05 / 24
Constant 4.085 ± 0.594
Mean −1.947 ± 2.824
Sigma 6.232 ± 2.255
t [ns]

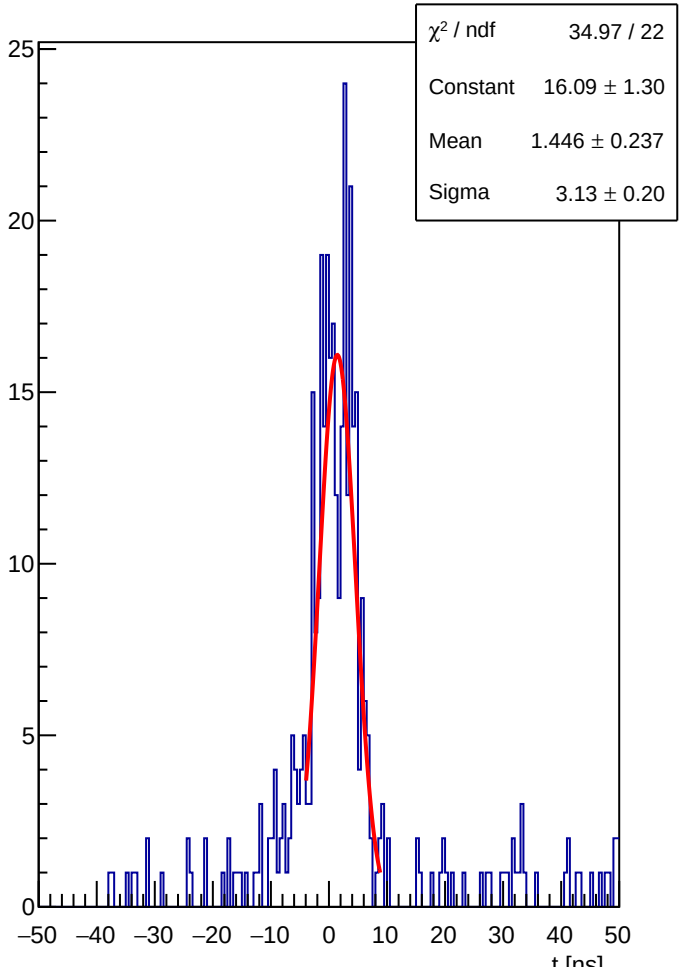

HCAL block 217 : t tw corr
χ² / ndf 27.48 / 25
Constant 3.887 ± 0.701
Mean 0.4042 ± 0.6935
Sigma 4.295 ± 1.000
t tw corr [ns]

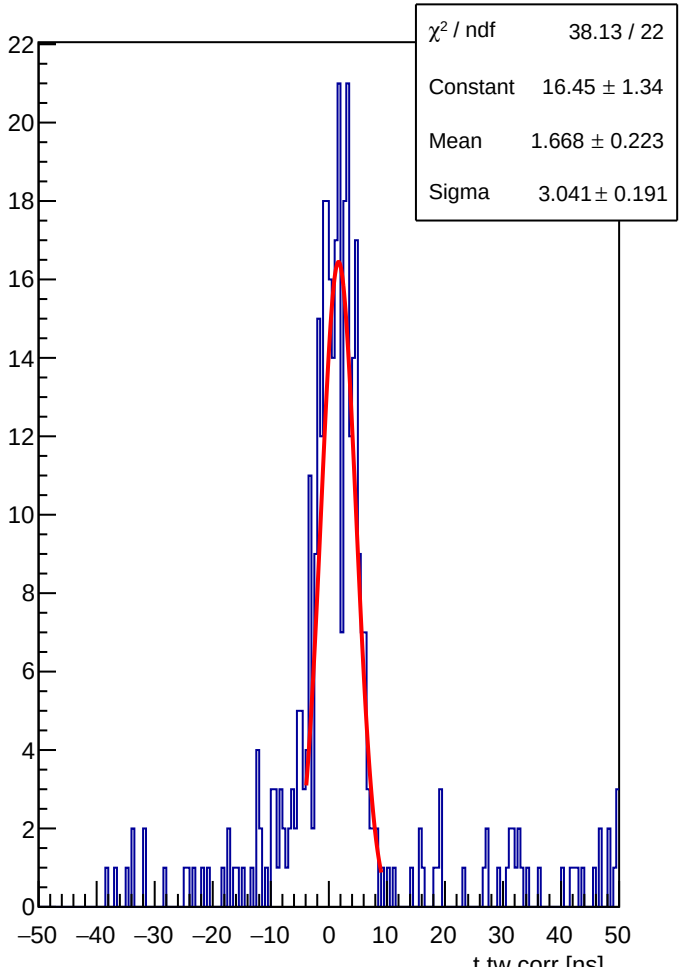

HCAL block 218 : t
χ² / ndf 39.37 / 25
Constant 16.63 ± 1.31
Mean −0.3378 ± 0.3391
Sigma 4.009 ± 0.357
30
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

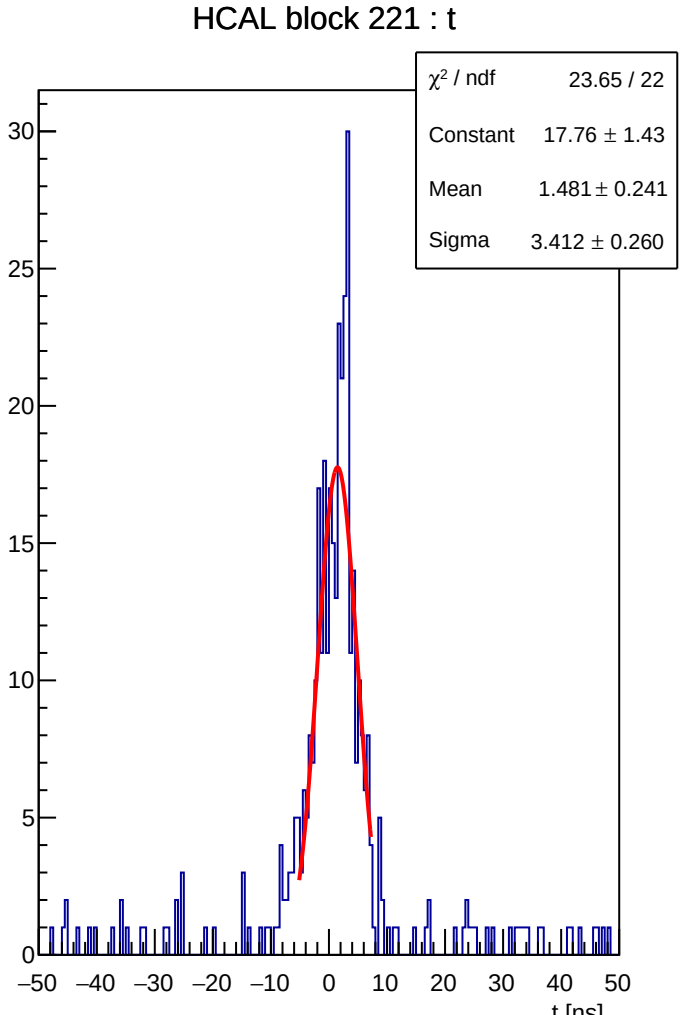

HCAL block 218 : t tw corr
χ² / ndf 12.9 / 25
Constant 19.71 ± 1.43
Mean 0.6012 ± 0.2530
Sigma 3.5 ± 0.2
25
20
15
10
5
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

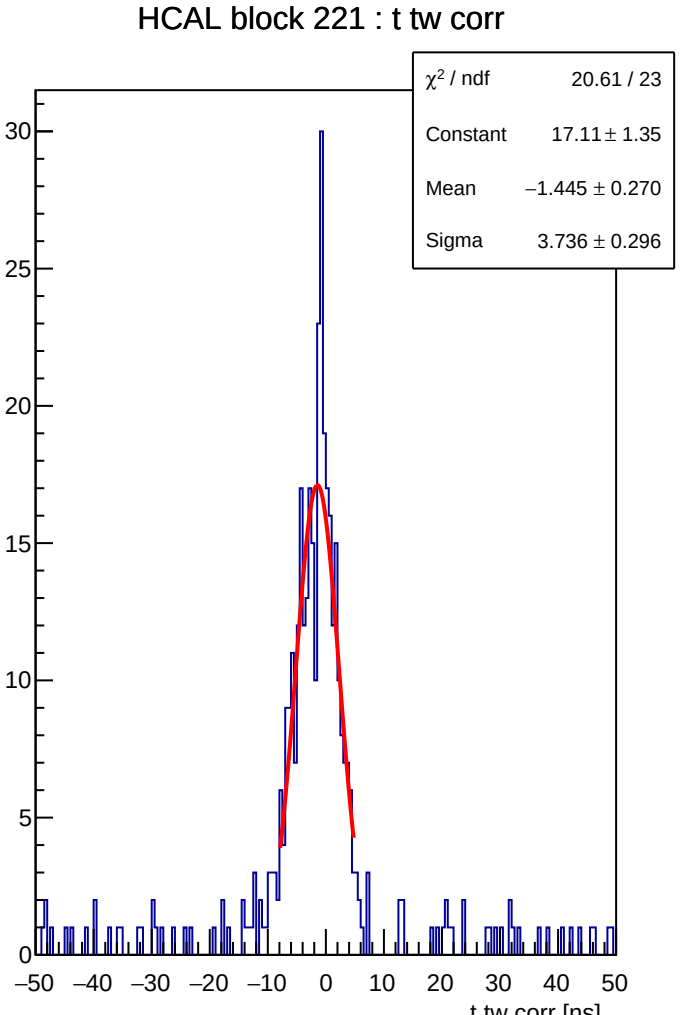

HCAL block 219 : t
χ² / ndf 36.24 / 24
Constant 10.65 ± 1.12
Mean 2.02 ± 0.39
Sigma 3.662 ± 0.393
t [ns]

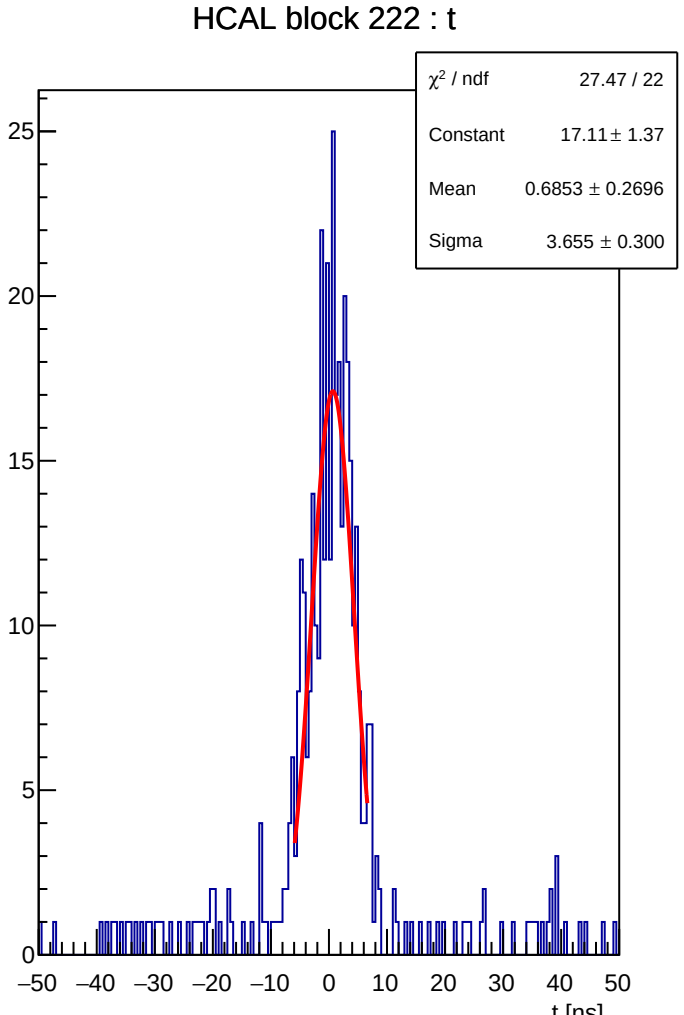

HCAL block 219 : t tw corr
χ² / ndf 31.66 / 24
Constant 11.36 ± 1.11
Mean 1.743 ± 0.380
Sigma 3.554 ± 0.328
t tw corr [ns]

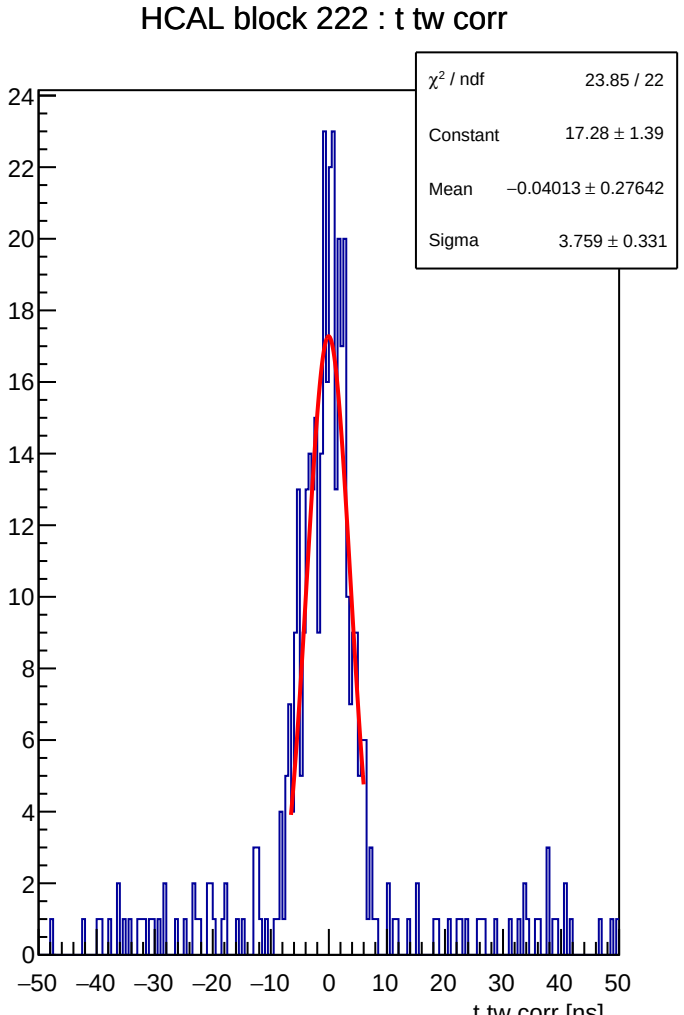

HCAL block 220 : t
χ² / ndf 34.97 / 22
Constant 16.09 ± 1.30
Mean 1.446 ± 0.237
Sigma 3.13 ± 0.20
t [ns]

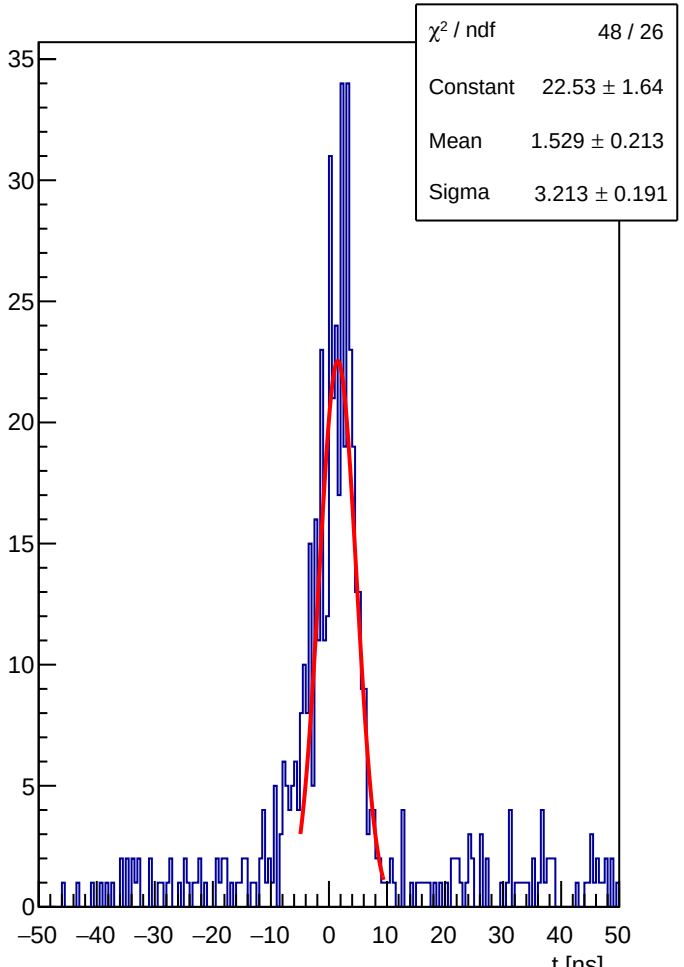

HCAL block 220 : t tw corr
χ² / ndf 38.13 / 22
Constant 16.45 ± 1.34
Mean 1.668 ± 0.223
Sigma 3.041 ± 0.191
t tw corr [ns]

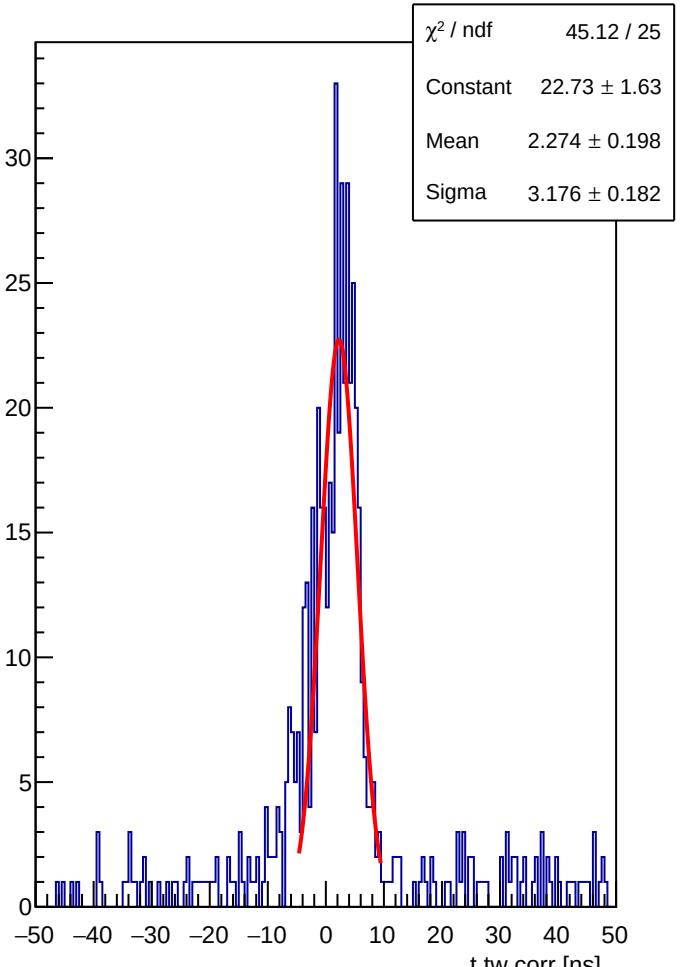

HCAL block 221 : t
χ² / ndf 23.65 / 22
Constant 17.76 ± 1.43
Mean 1.481 ± 0.241
Sigma 3.412 ± 0.260
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

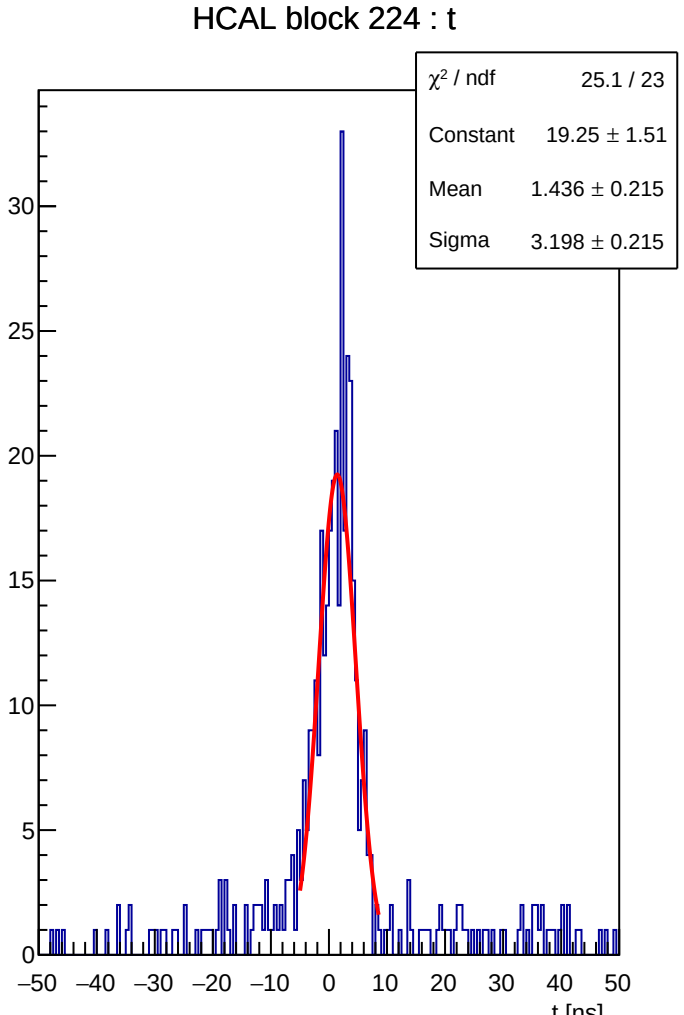

HCAL block 221 : t tw corr
χ² / ndf 20.61 / 23
Constant 17.11 ± 1.35
Mean –1.445 ± 0.270
Sigma 3.736 ± 0.296
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

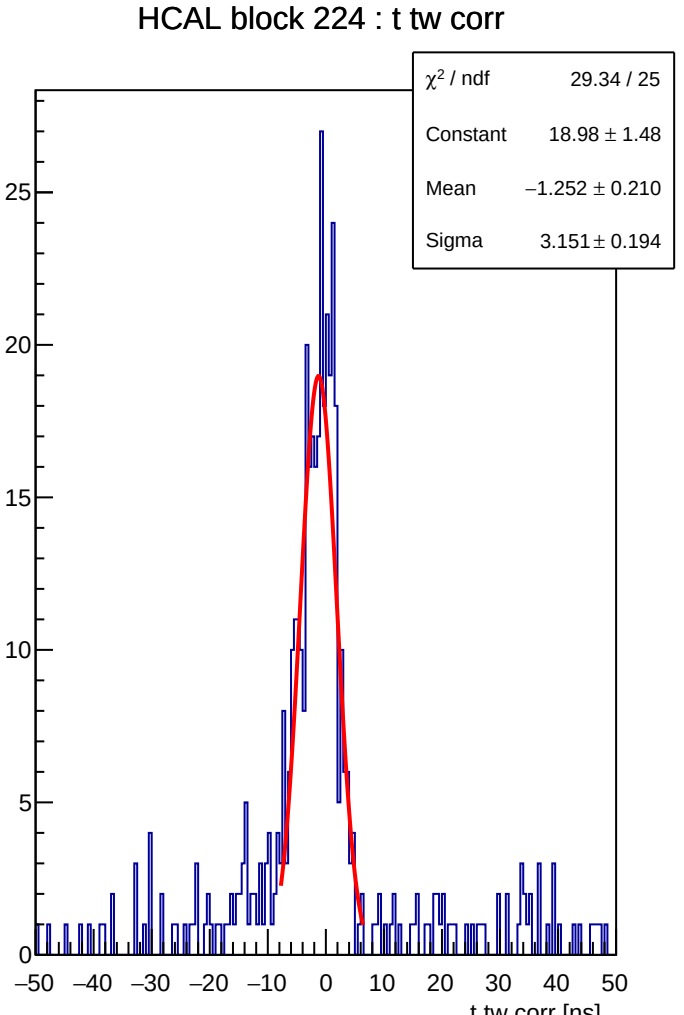

HCAL block 222 : t
χ² / ndf 27.47 / 22
Constant 17.11 ± 1.37
Mean 0.6853 ± 0.2696
Sigma 3.655 ± 0.300
t [ns]

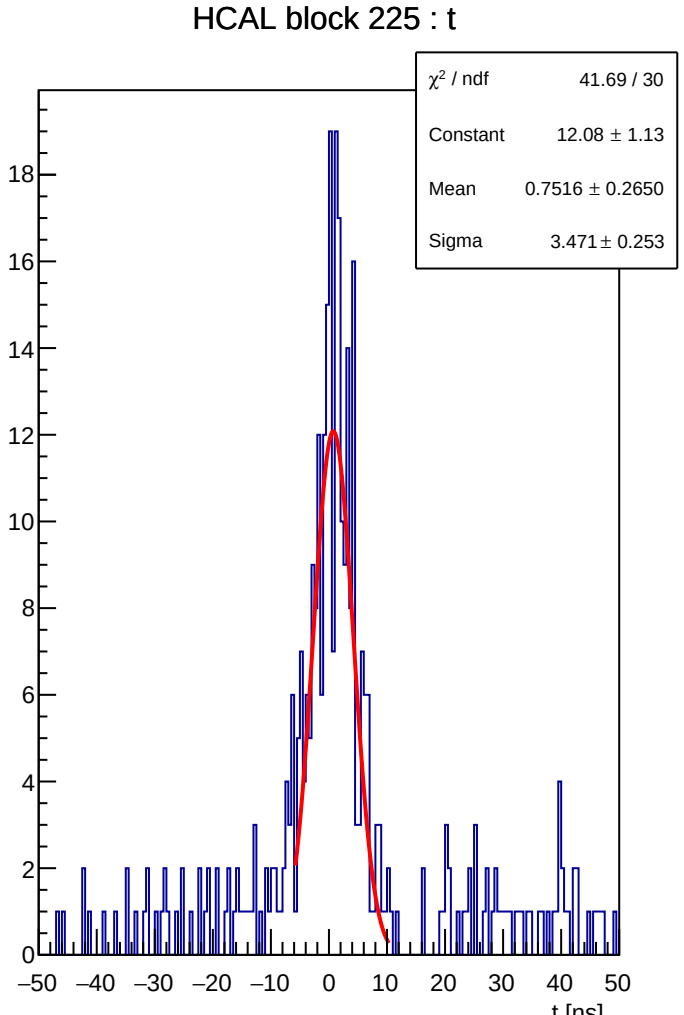

HCAL block 222 : t tw corr
χ² / ndf 23.85 / 22
Constant 17.28 ± 1.39
Mean −0.04013 ± 0.27642
Sigma 3.759 ± 0.331
t tw corr [ns]

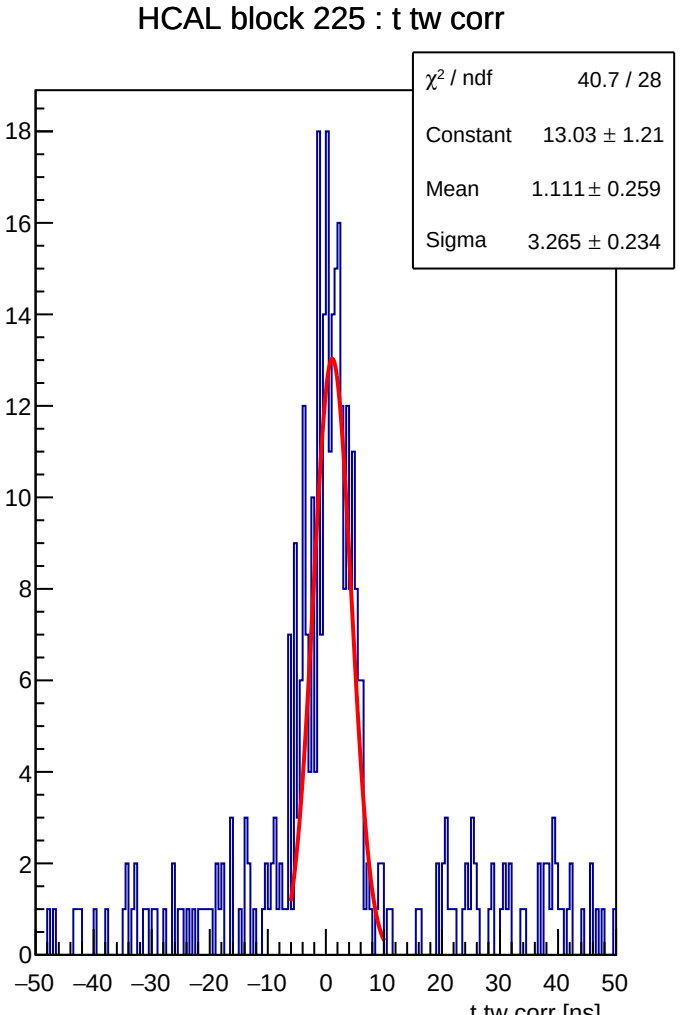

HCAL block 223 : t
χ² / ndf 48 / 26
Constant 22.53 ± 1.64
Mean 1.529 ± 0.213
Sigma 3.213 ± 0.191
35
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

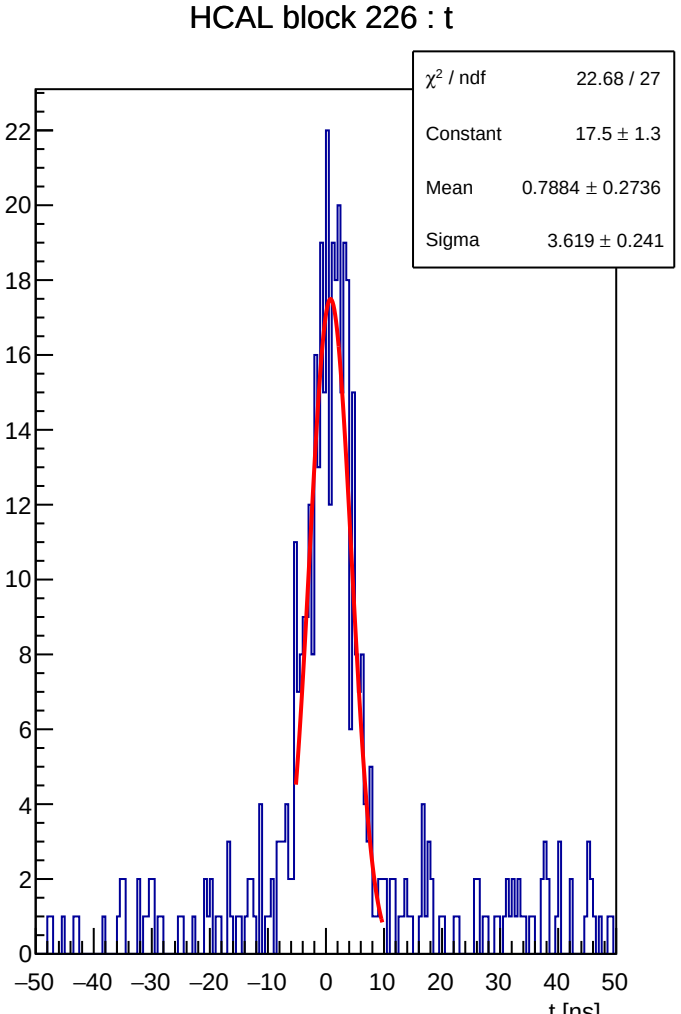

HCAL block 223 : t tw corr
χ² / ndf 45.12 / 25
Constant 22.73 ± 1.63
Mean 2.274 ± 0.198
Sigma 3.176 ± 0.182
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

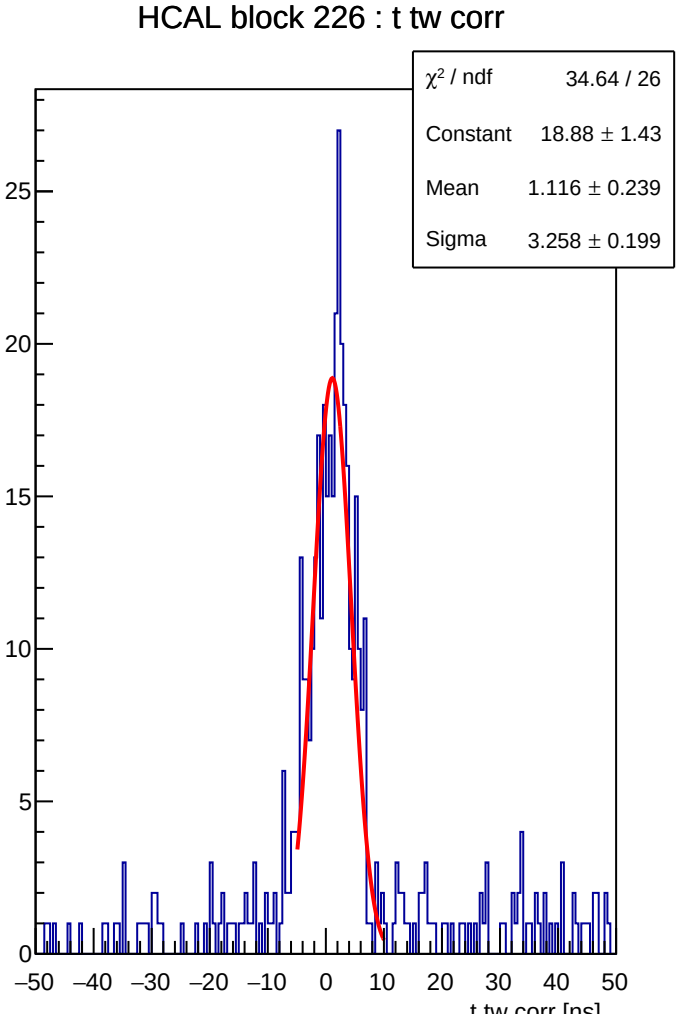

HCAL block 224 : t
χ² / ndf 25.1 / 23
Constant 19.25 ± 1.51
Mean 1.436 ± 0.215
Sigma 3.198 ± 0.215
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

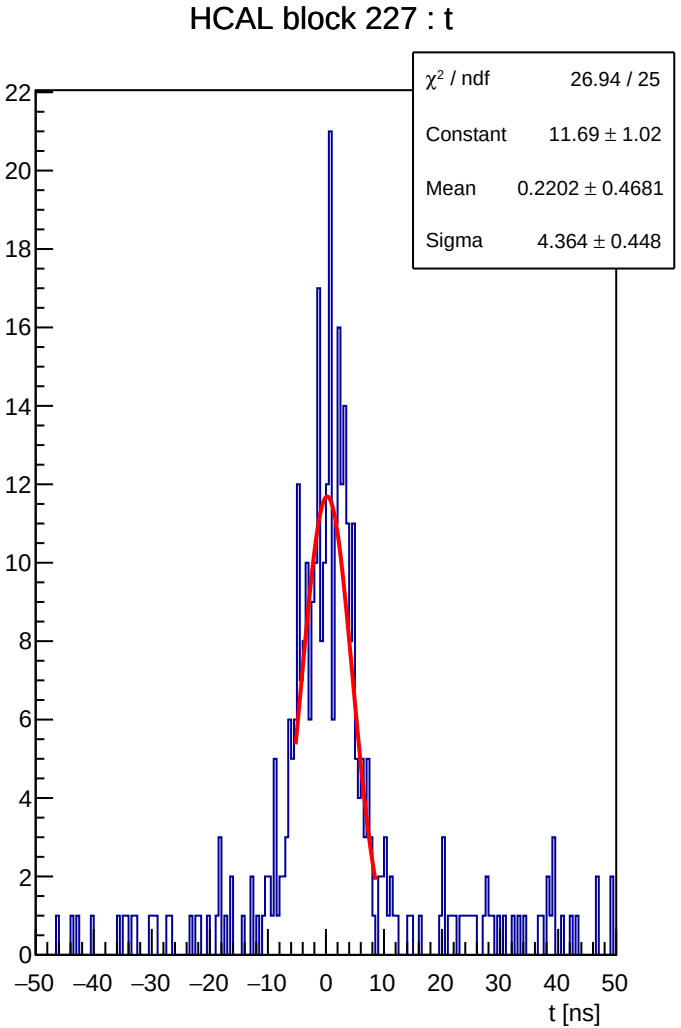

HCAL block 224 : t tw corr
χ² / ndf 29.34 / 25
Constant 18.98 ± 1.48
Mean –1.252 ± 0.210
Sigma 3.151 ± 0.194
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

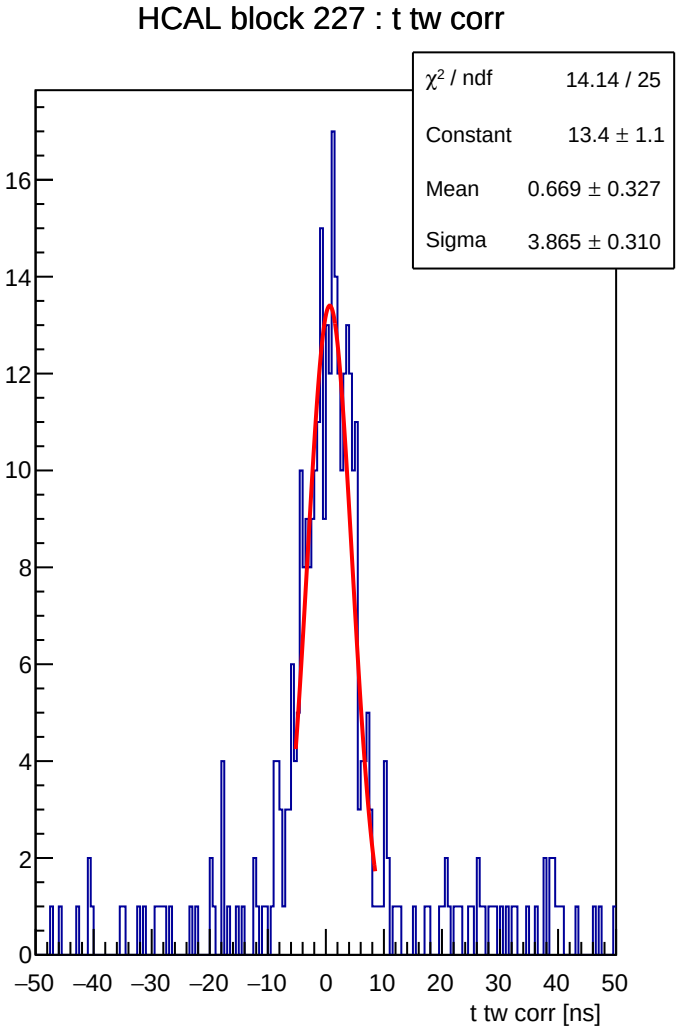

HCAL block 225 : t
χ² / ndf 41.69 / 30
Constant 12.08 ± 1.13
Mean 0.7516 ± 0.2650
Sigma 3.471 ± 0.253
t [ns]

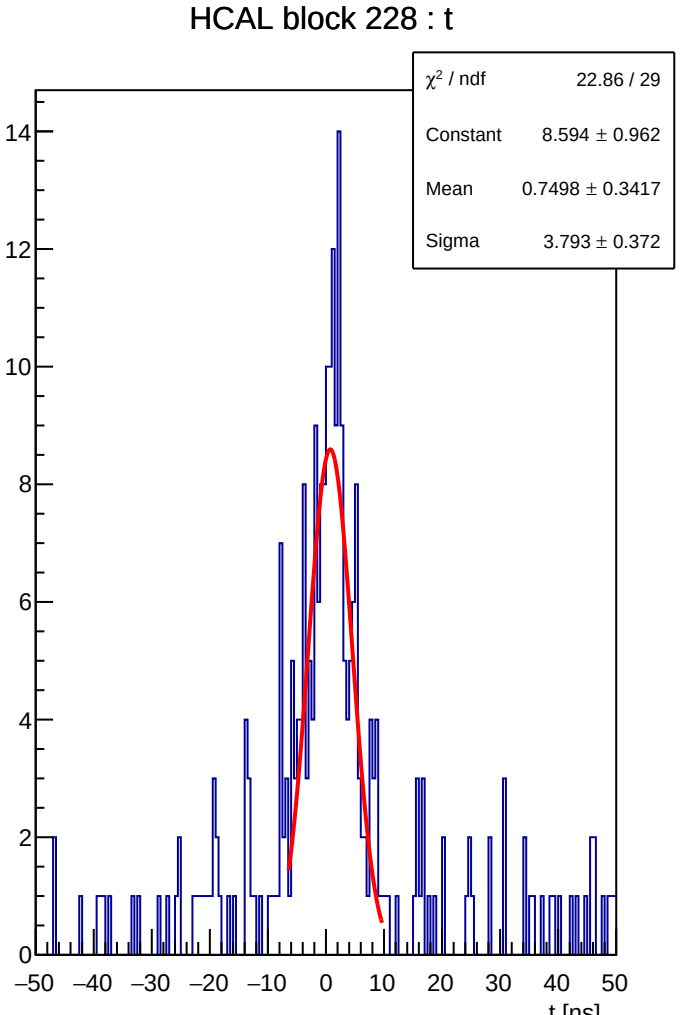

HCAL block 225 : t tw corr
χ² / ndf 40.7 / 28
Constant 13.03 ± 1.21
Mean 1.111 ± 0.259
Sigma 3.265 ± 0.234
t tw corr [ns]

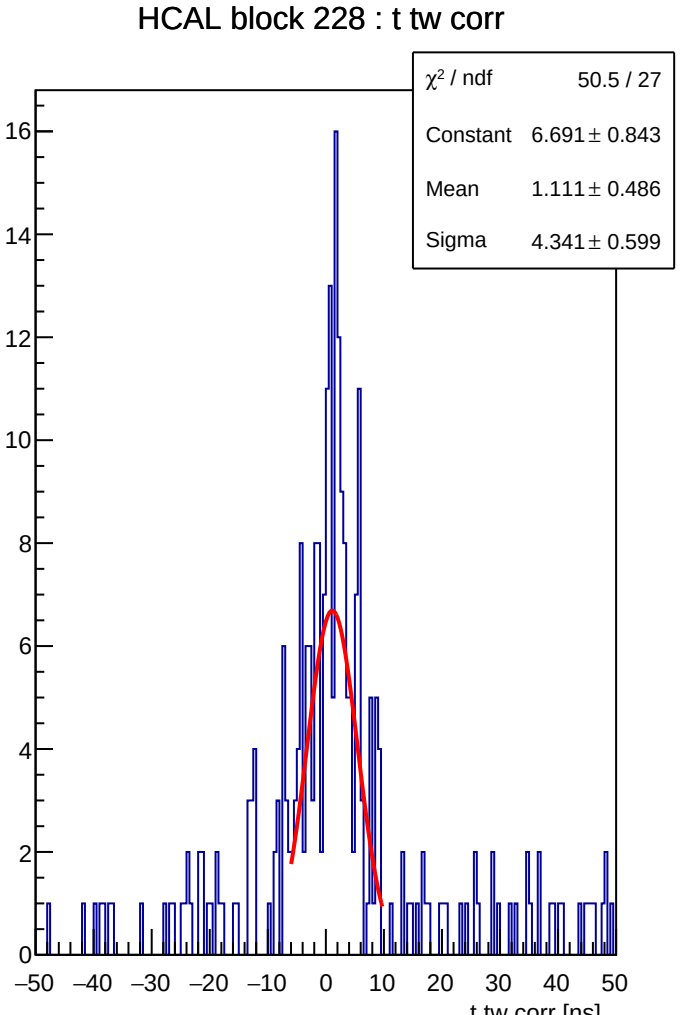

HCAL block 226 : t
χ² / ndf 22.68 / 27
Constant 17.5 ± 1.3
Mean 0.7884 ± 0.2736
Sigma 3.619 ± 0.241
t [ns]

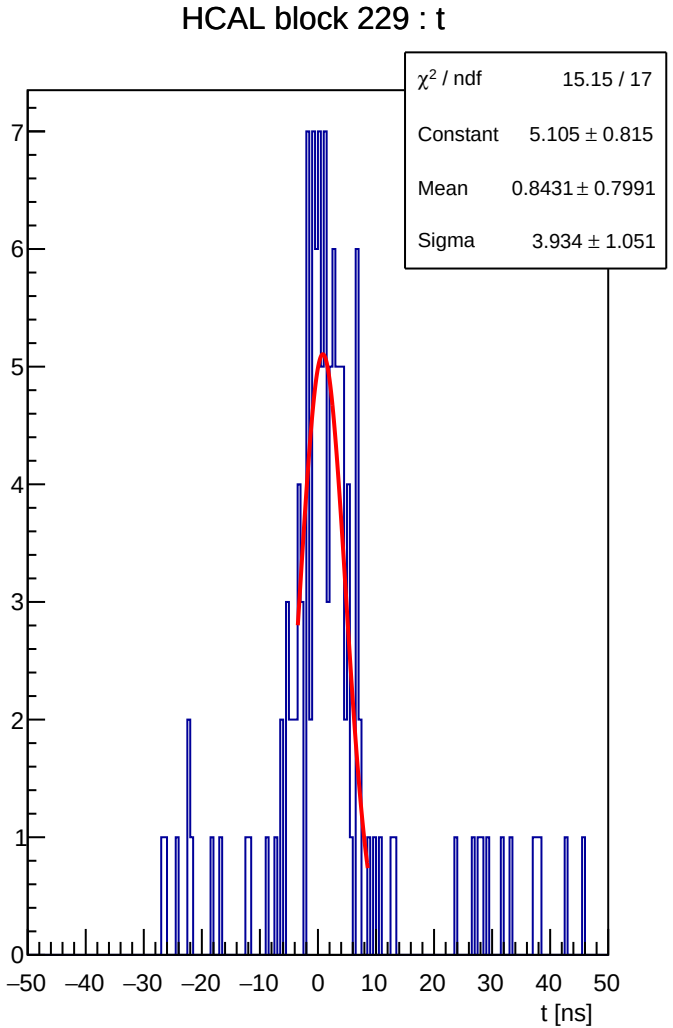

HCAL block 226 : t tw corr
χ² / ndf 34.64 / 26
Constant 18.88 ± 1.43
Mean 1.116 ± 0.239
Sigma 3.258 ± 0.199
t tw corr [ns]

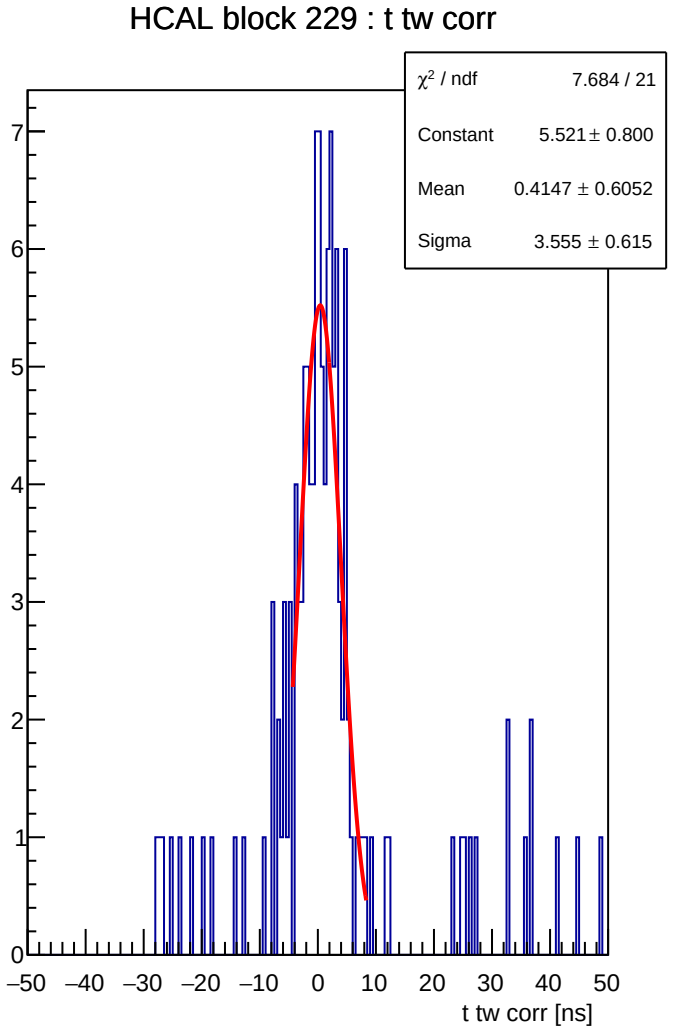

HCAL block 227 : t
χ² / ndf 26.94 / 25
Constant 11.69 ± 1.02
Mean 0.2202 ± 0.4681
Sigma 4.364 ± 0.448
t [ns]

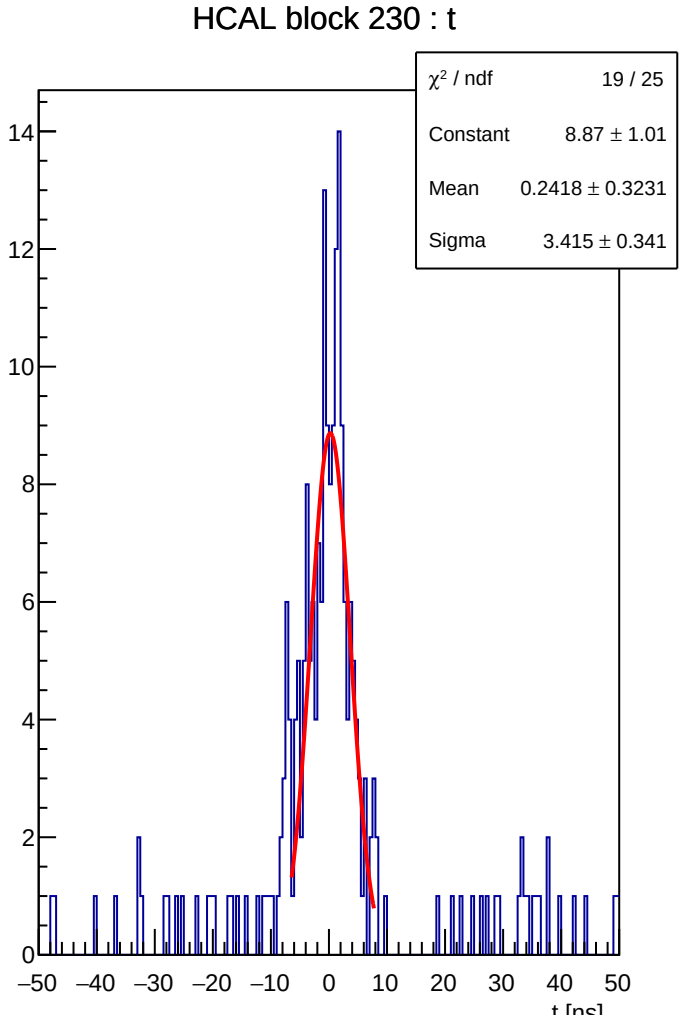

HCAL block 227 : t tw corr
χ² / ndf 14.14 / 25
Constant 13.4 ± 1.1
Mean 0.669 ± 0.327
Sigma 3.865 ± 0.310
t tw corr [ns]

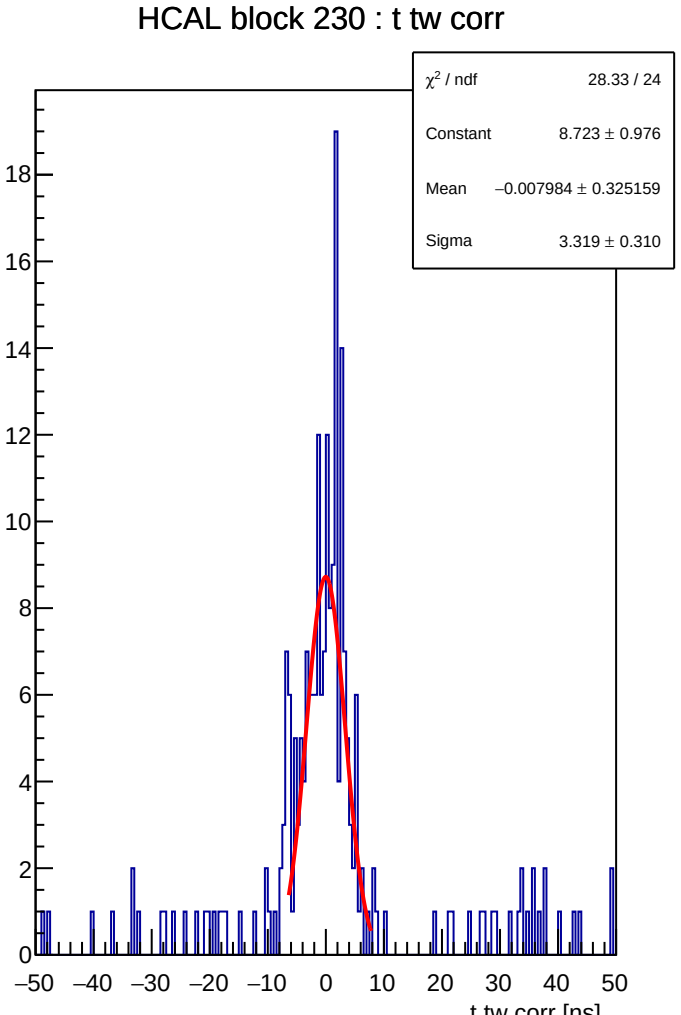

HCAL block 228 : t
χ² / ndf 22.86 / 29
Constant 8.594 ± 0.962
Mean 0.7498 ± 0.3417
Sigma 3.793 ± 0.372
t [ns]

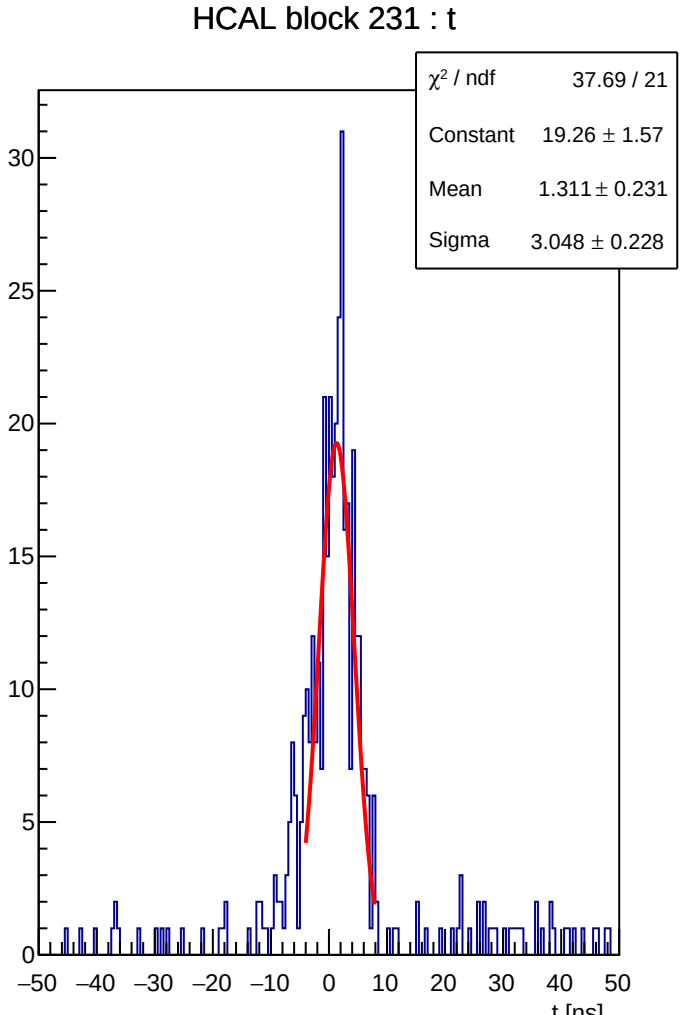

HCAL block 228 : t tw corr
χ² / ndf 50.5 / 27
Constant 6.691 ± 0.843
Mean 1.111 ± 0.486
Sigma 4.341 ± 0.599
t tw corr [ns]

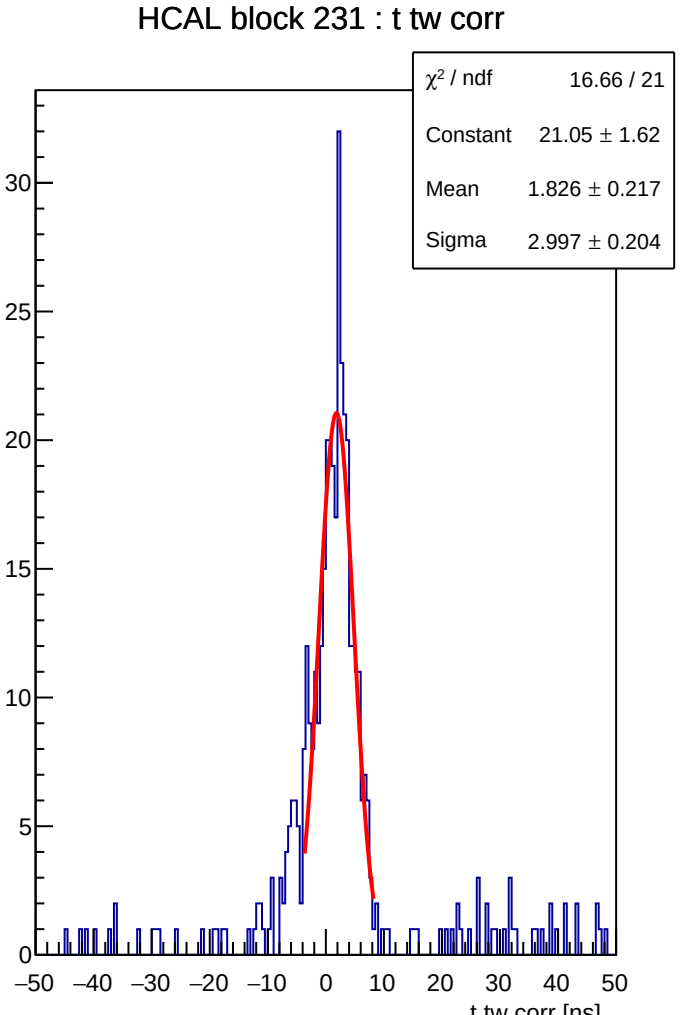

HCAL block 229 : t
χ² / ndf 15.15 / 17
Constant 5.105 ± 0.815
Mean 0.8431 ± 0.7991
Sigma 3.934 ± 1.051
t [ns]

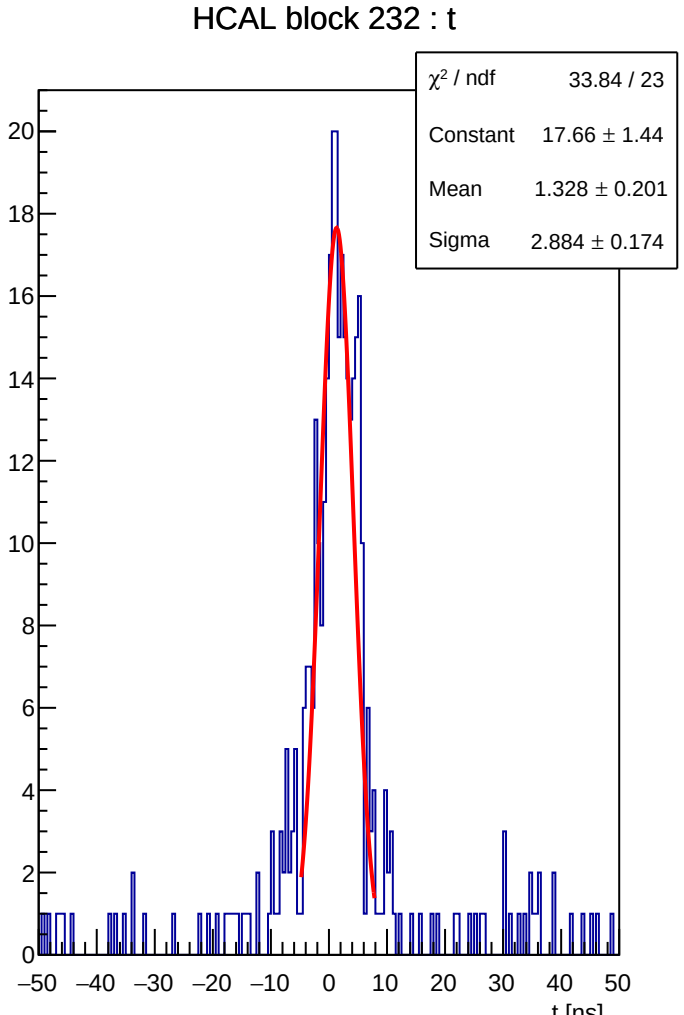

HCAL block 229 : t tw corr
χ² / ndf 7.684 / 21
Constant 5.521 ± 0.800
Mean 0.4147 ± 0.6052
Sigma 3.555 ± 0.615
t tw corr [ns]

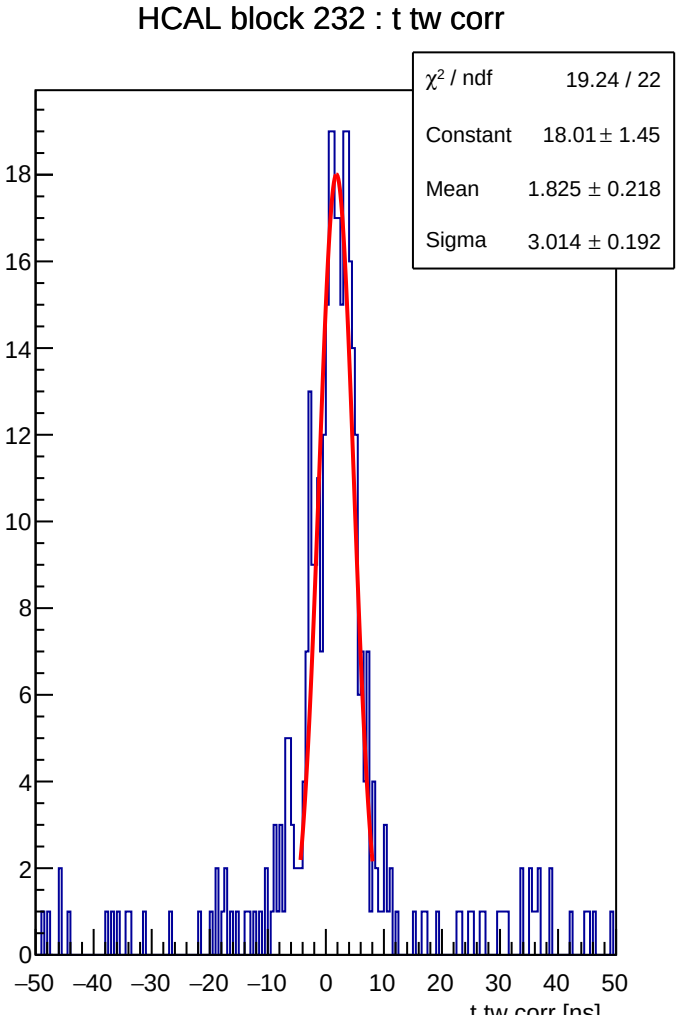

HCAL block 230 : t
χ² / ndf 19 / 25
Constant 8.87 ± 1.01
Mean 0.2418 ± 0.3231
Sigma 3.415 ± 0.341
t [ns]

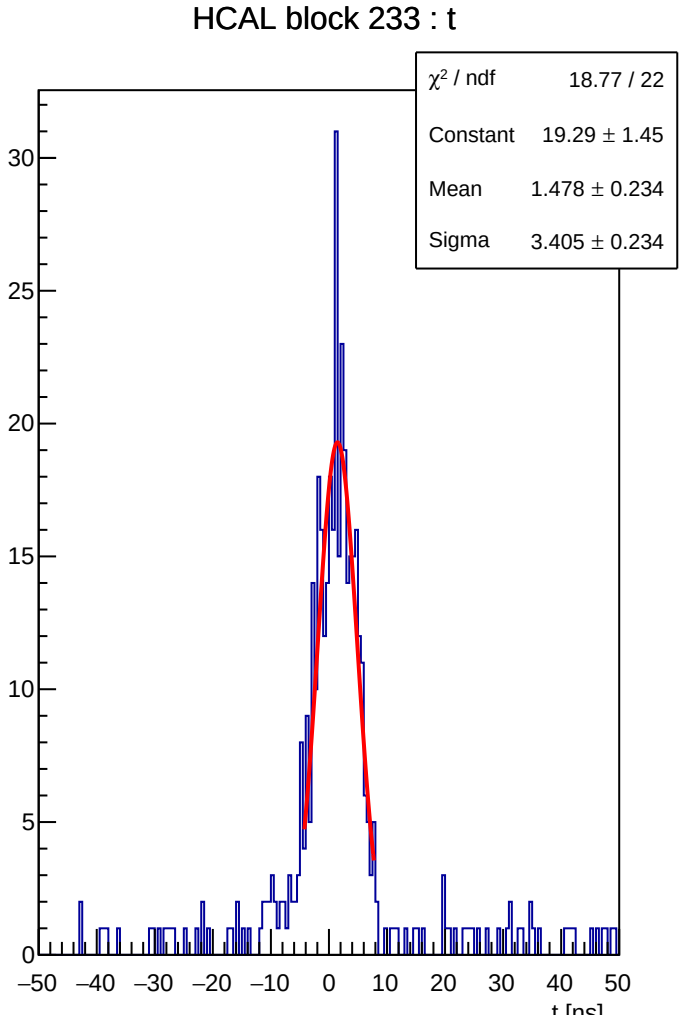

HCAL block 230 : t tw corr
χ² / ndf 28.33 / 24
Constant 8.723 ± 0.976
Mean −0.007984 ± 0.325159
Sigma 3.319 ± 0.310
t tw corr [ns]

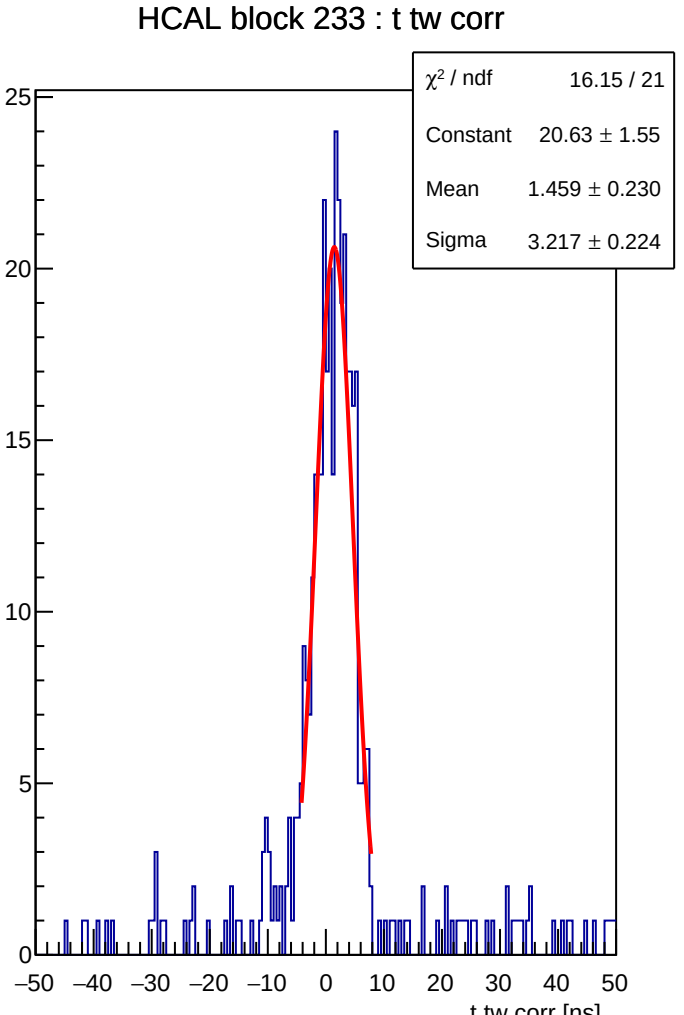

HCAL block 231 : t
χ² / ndf 37.69 / 21
Constant 19.26 ± 1.57
Mean 1.311 ± 0.231
Sigma 3.048 ± 0.228
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

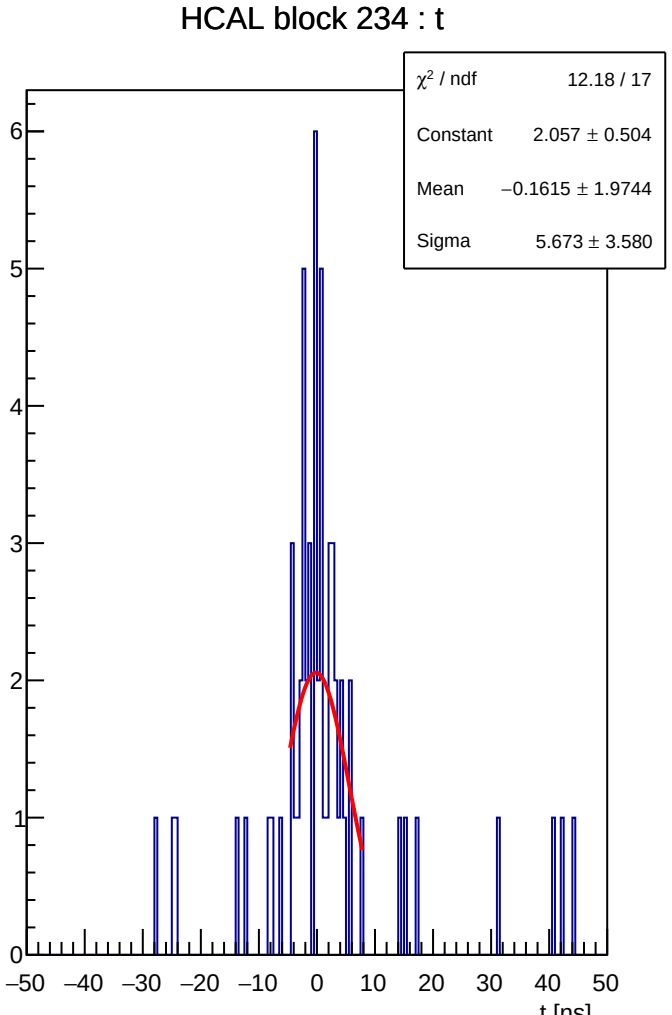

HCAL block 231 : t tw corr
χ² / ndf 16.66 / 21
Constant 21.05 ± 1.62
Mean 1.826 ± 0.217
Sigma 2.997 ± 0.204
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

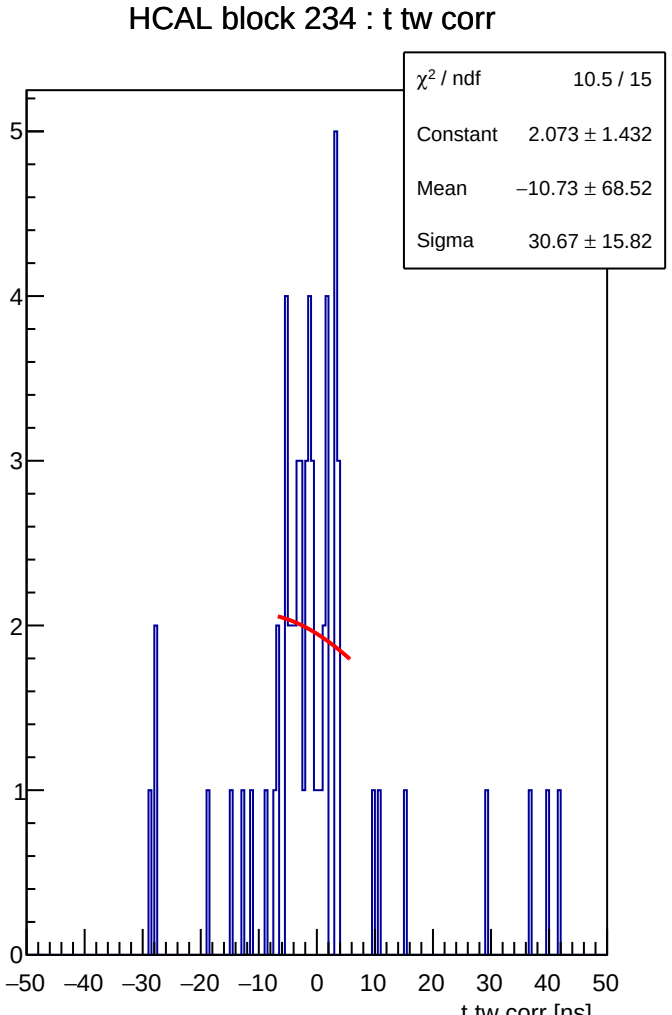

HCAL block 232 : t
χ² / ndf 33.84 / 23
Constant 17.66 ± 1.44
Mean 1.328 ± 0.201
Sigma 2.884 ± 0.174
t [ns]

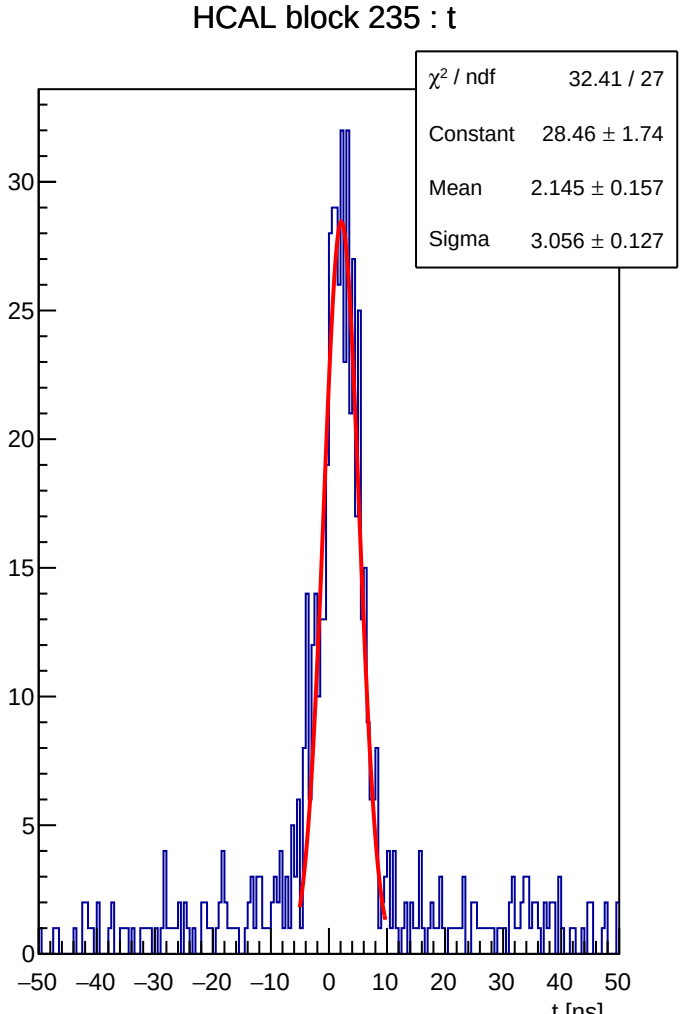

HCAL block 232 : t tw corr
χ² / ndf 19.24 / 22
Constant 18.01 ± 1.45
Mean 1.825 ± 0.218
Sigma 3.014 ± 0.192
t tw corr [ns]

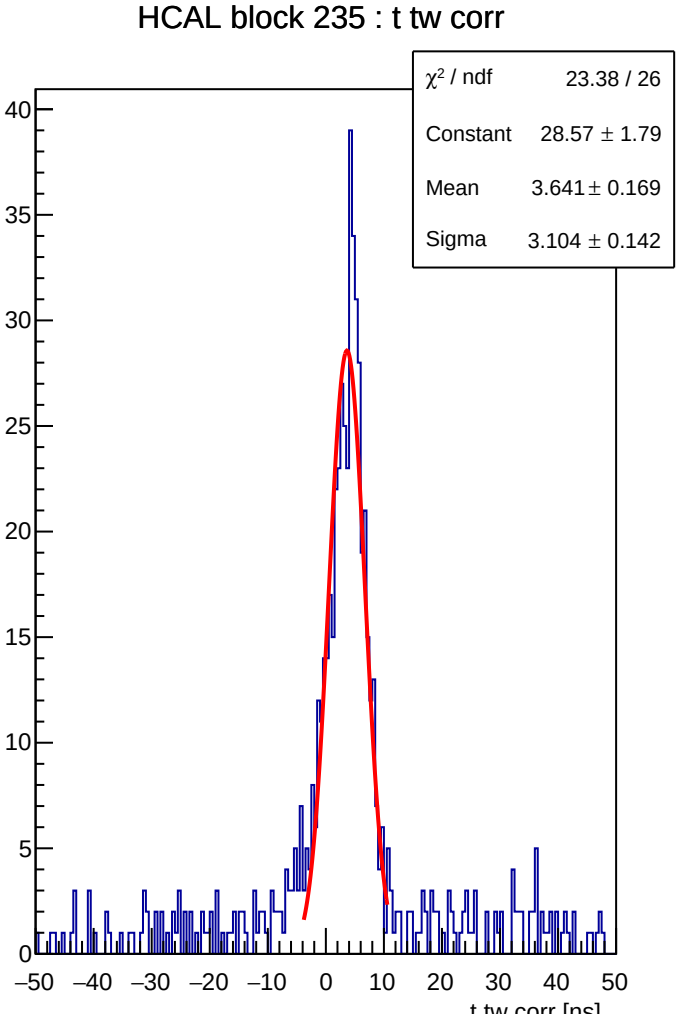

HCAL block 233 : t
χ² / ndf 18.77 / 22
Constant 19.29 ± 1.45
Mean 1.478 ± 0.234
Sigma 3.405 ± 0.234
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

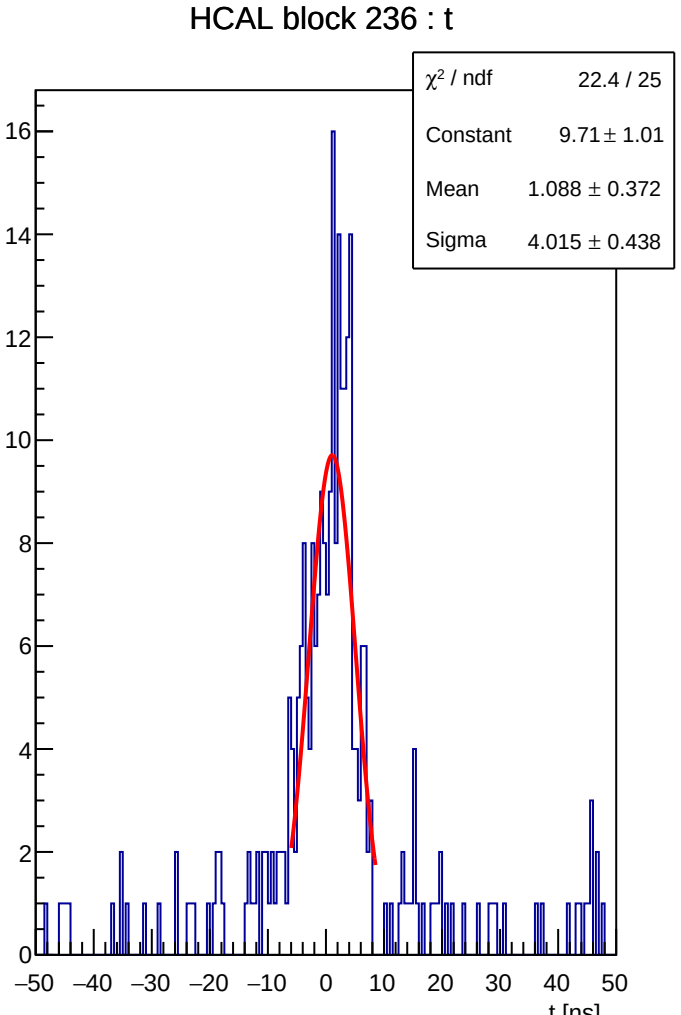

HCAL block 233 : t tw corr
χ² / ndf 16.15 / 21
Constant 20.63 ± 1.55
Mean 1.459 ± 0.230
Sigma 3.217 ± 0.224
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

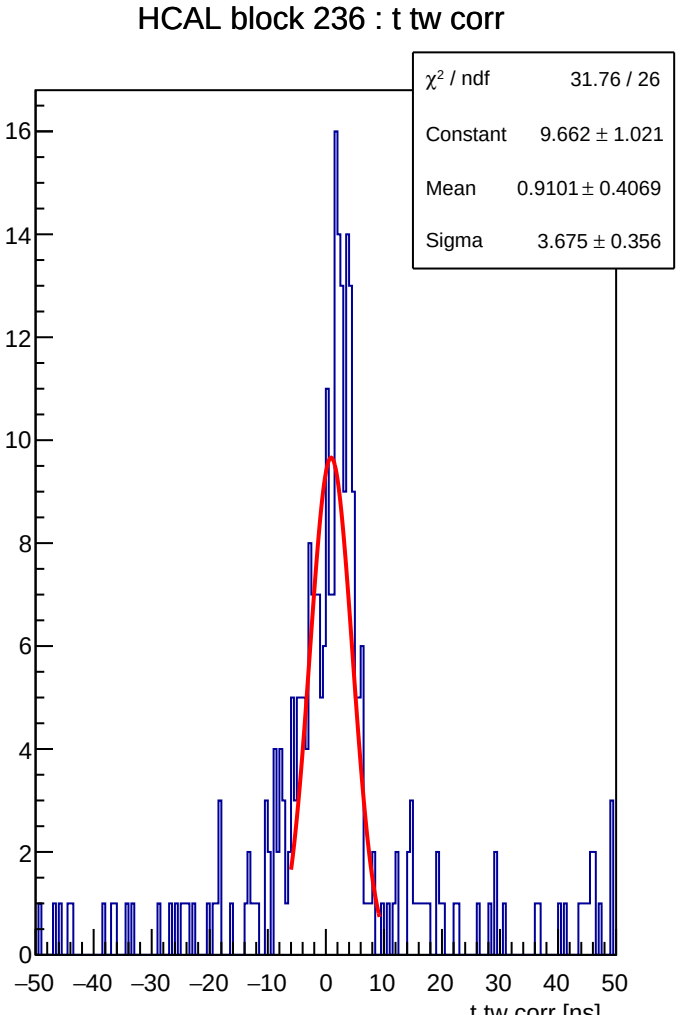

HCAL block 234 : t
χ² / ndf 12.18 / 17
Constant 2.057 ± 0.504
Mean −0.1615 ± 1.9744
Sigma 5.673 ± 3.580
t [ns]

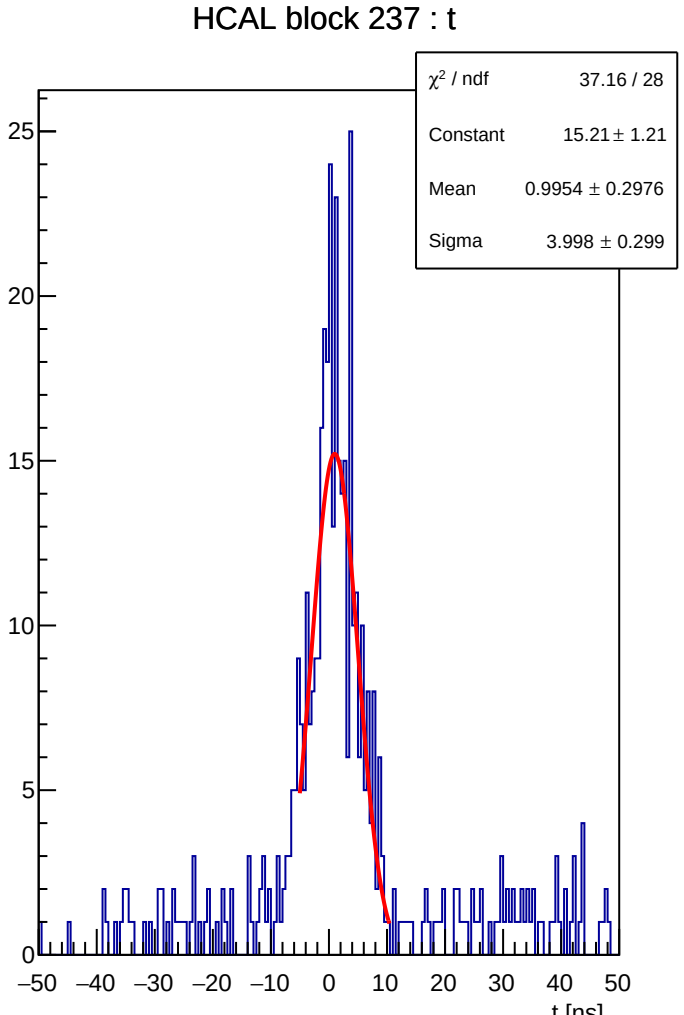

HCAL block 234 : t tw corr
χ² / ndf 10.5 / 15
Constant 2.073 ± 1.432
Mean −10.73 ± 68.52
Sigma 30.67 ± 15.82
t tw corr [ns]

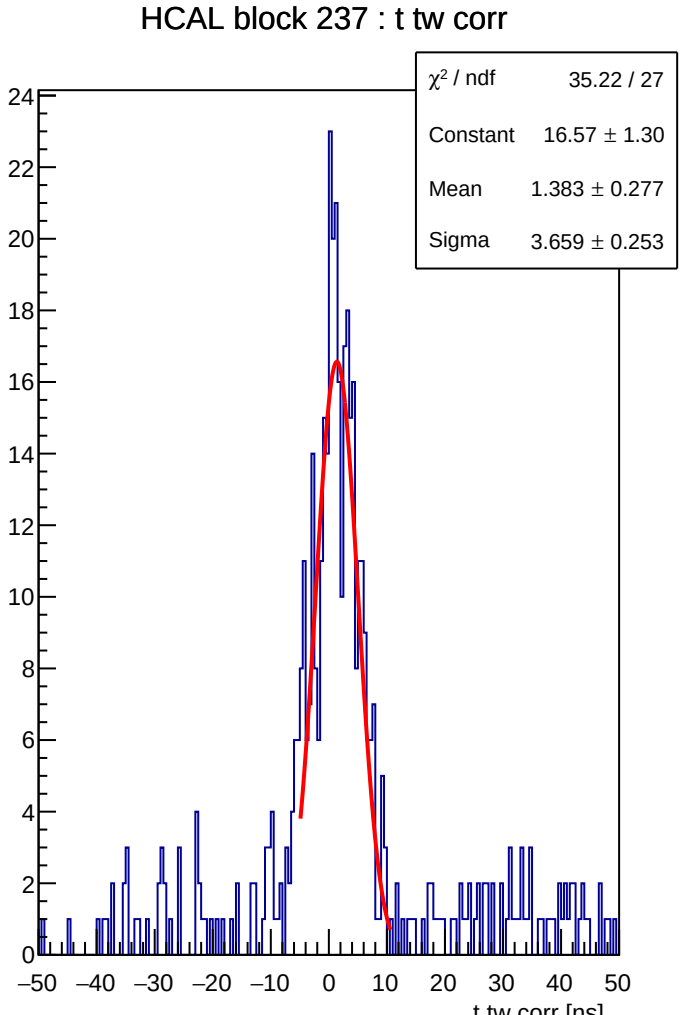

HCAL block 235 : t
χ² / ndf 32.41 / 27
Constant 28.46 ± 1.74
Mean 2.145 ± 0.157
Sigma 3.056 ± 0.127
t [ns]

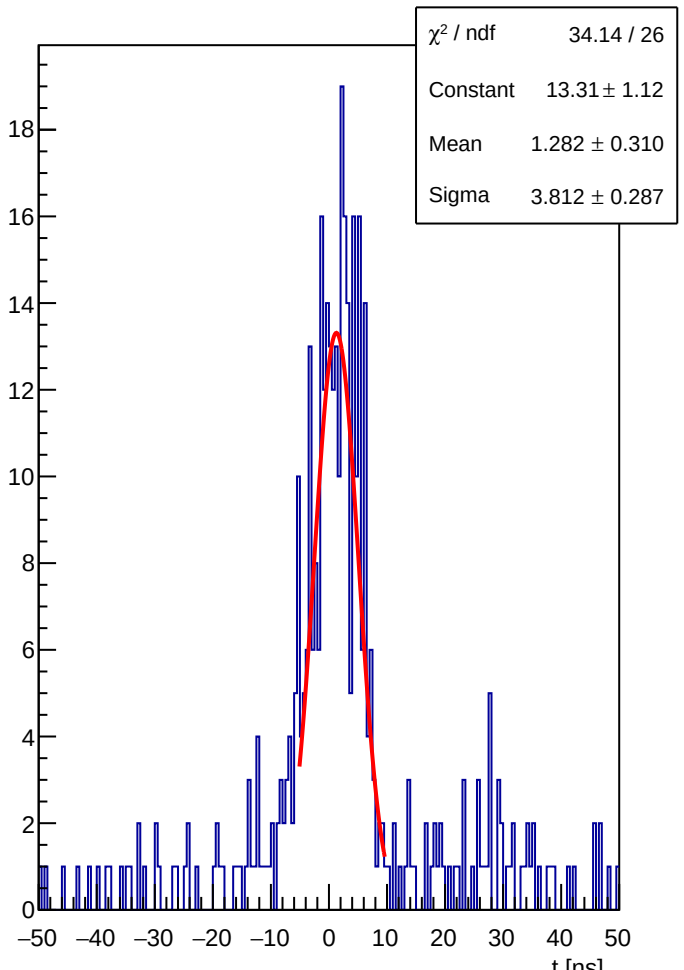

HCAL block 235 : t tw corr
χ² / ndf 23.38 / 26
Constant 28.57 ± 1.79
Mean 3.641 ± 0.169
Sigma 3.104 ± 0.142
t tw corr [ns]

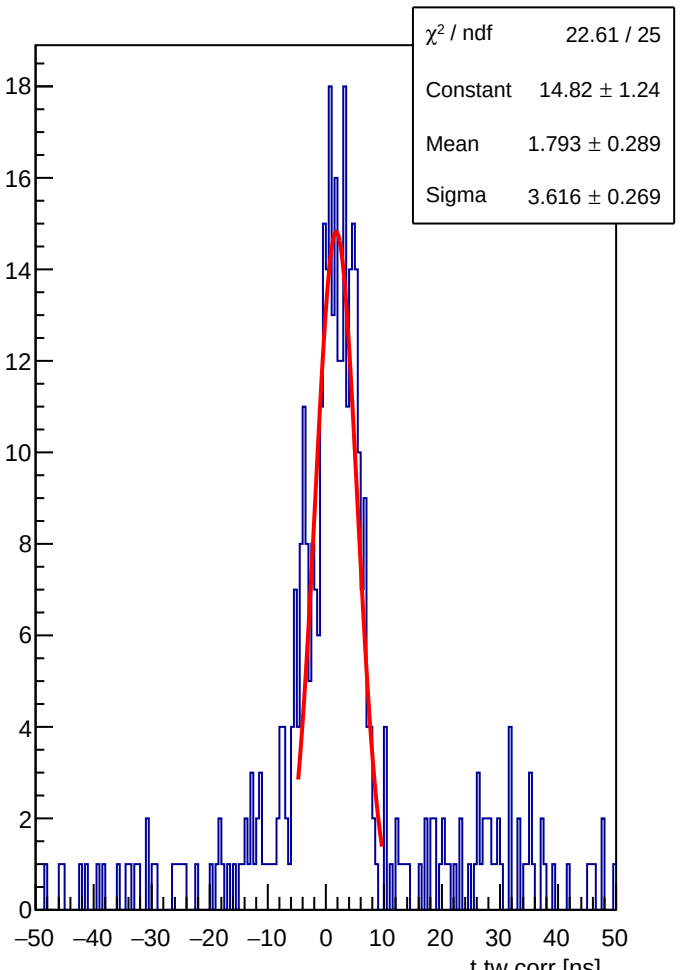

HCAL block 236 : t
χ² / ndf 22.4 / 25
Constant 9.71 ± 1.01
Mean 1.088 ± 0.372
Sigma 4.015 ± 0.438
16
14
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

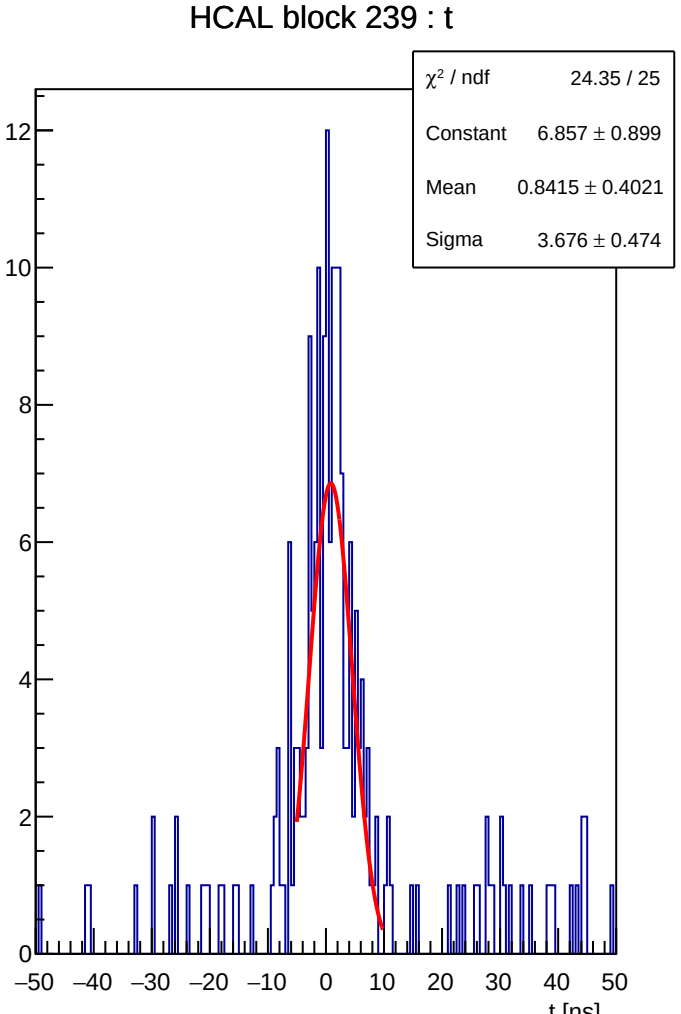

HCAL block 236 : t tw corr
χ² / ndf 31.76 / 26
Constant 9.662 ± 1.021
Mean 0.9101 ± 0.4069
Sigma 3.675 ± 0.356
16
14
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

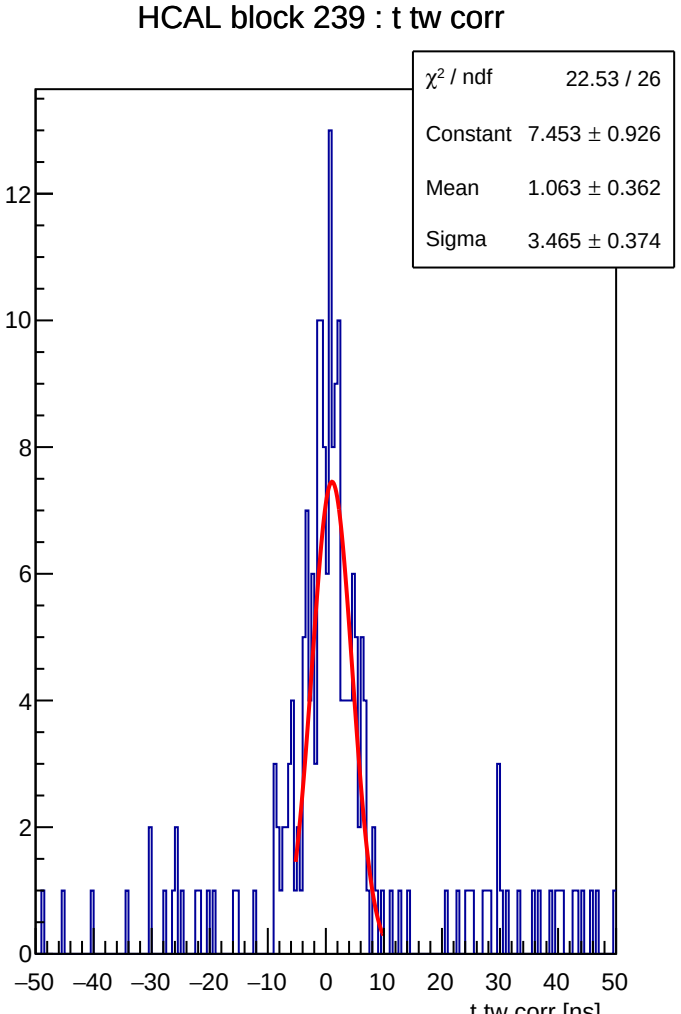

HCAL block 237 : t
χ² / ndf 37.16 / 28
Constant 15.21 ± 1.21
Mean 0.9954 ± 0.2976
Sigma 3.998 ± 0.299
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

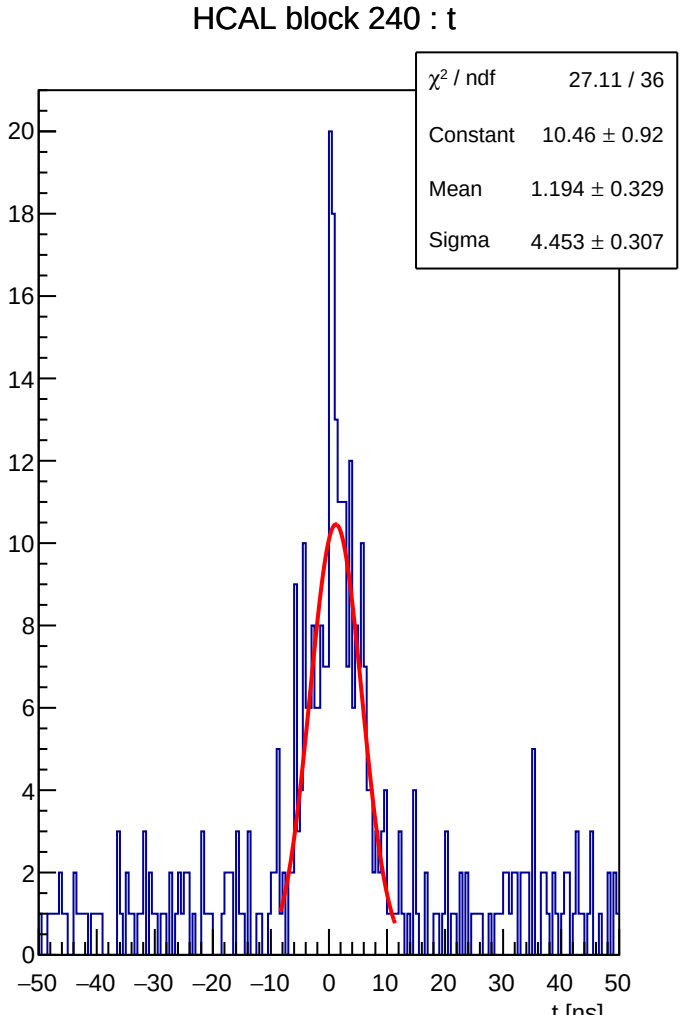

HCAL block 237 : t tw corr
χ² / ndf 35.22 / 27
Constant 16.57 ± 1.30
Mean 1.383 ± 0.277
Sigma 3.659 ± 0.253
24
22
20
18
16
14
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

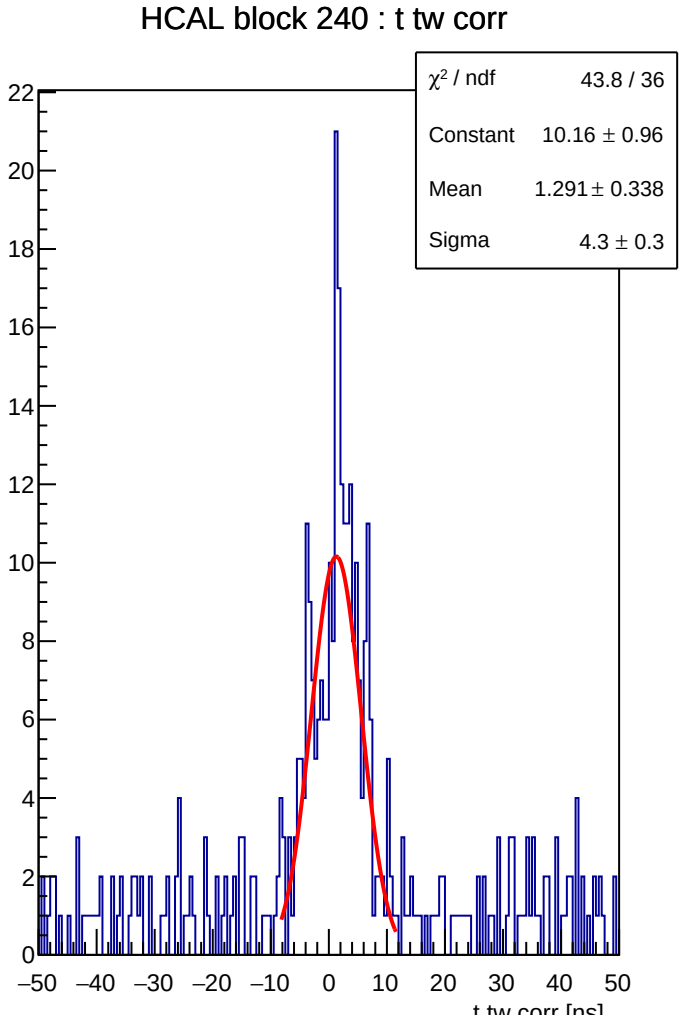

HCAL block 238 : t
χ² / ndf 34.14 / 26
Constant 13.31 ± 1.12
Mean 1.282 ± 0.310
Sigma 3.812 ± 0.287
t [ns]

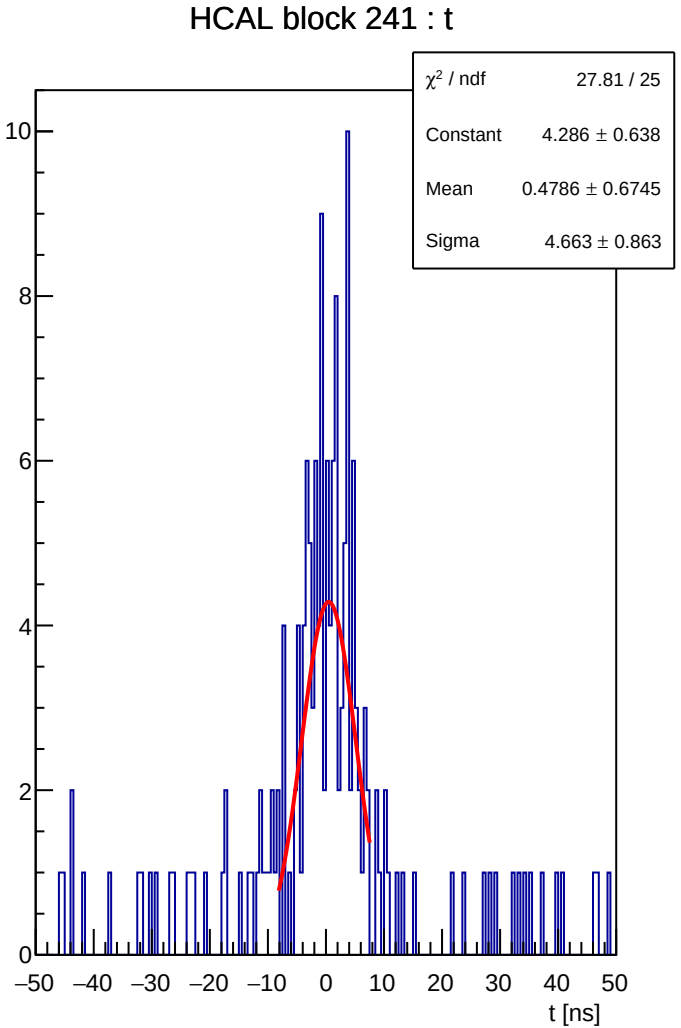

HCAL block 238 : t tw corr
χ² / ndf 22.61 / 25
Constant 14.82 ± 1.24
Mean 1.793 ± 0.289
Sigma 3.616 ± 0.269
t tw corr [ns]

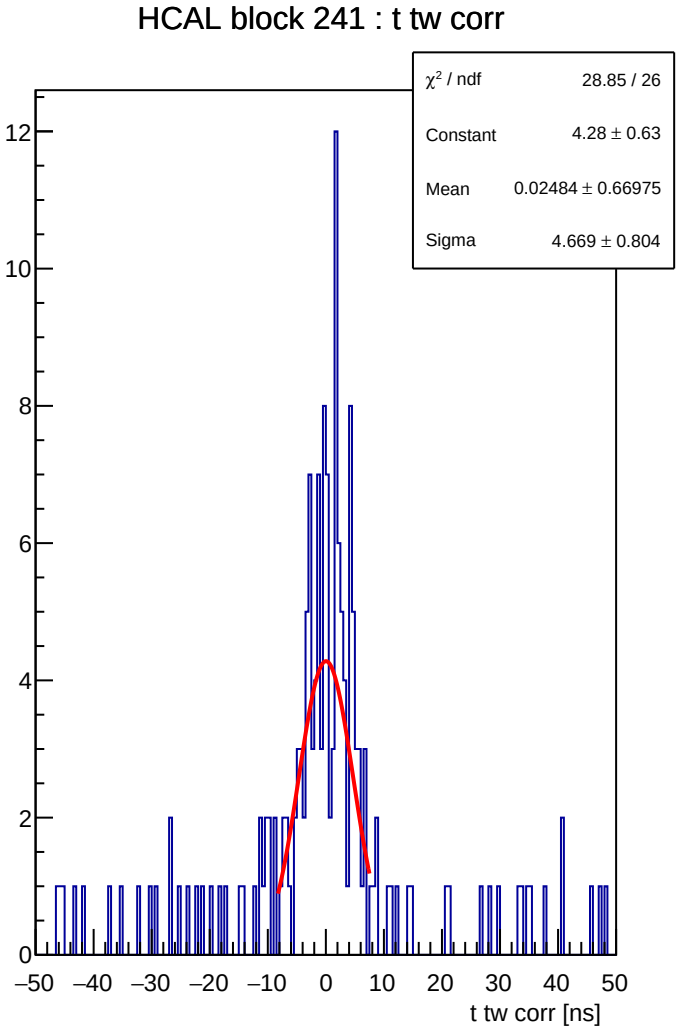

HCAL block 239 : t
χ² / ndf 24.35 / 25
Constant 6.857 ± 0.899
Mean 0.8415 ± 0.4021
Sigma 3.676 ± 0.474
t [ns]

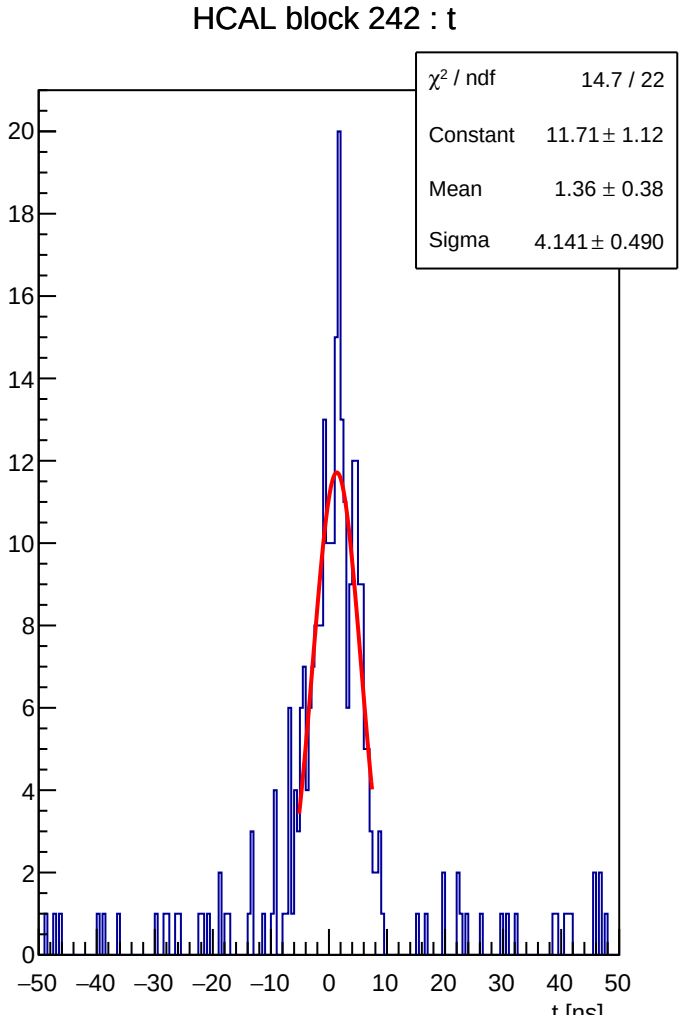

HCAL block 239 : t tw corr
χ² / ndf 22.53 / 26
Constant 7.453 ± 0.926
Mean 1.063 ± 0.362
Sigma 3.465 ± 0.374
t tw corr [ns]

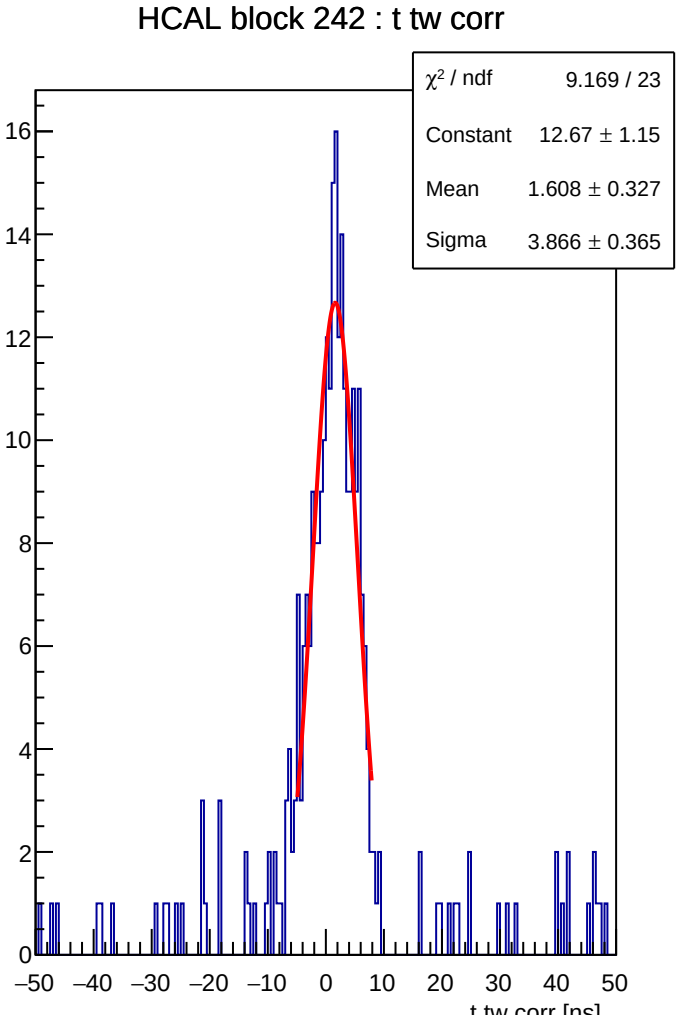

HCAL block 240 : t
χ² / ndf 27.11 / 36
Constant 10.46 ± 0.92
Mean 1.194 ± 0.329
Sigma 4.453 ± 0.307
t [ns]

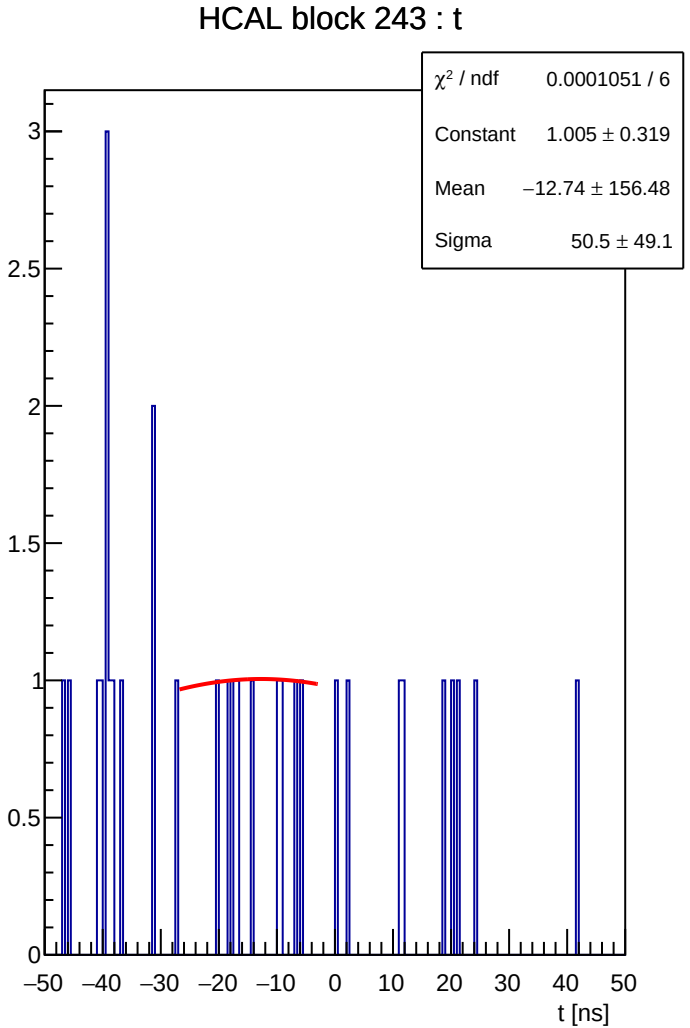

HCAL block 240 : t tw corr
χ² / ndf 43.8 / 36
Constant 10.16 ± 0.96
Mean 1.291 ± 0.338
Sigma 4.3 ± 0.3
t tw corr [ns]

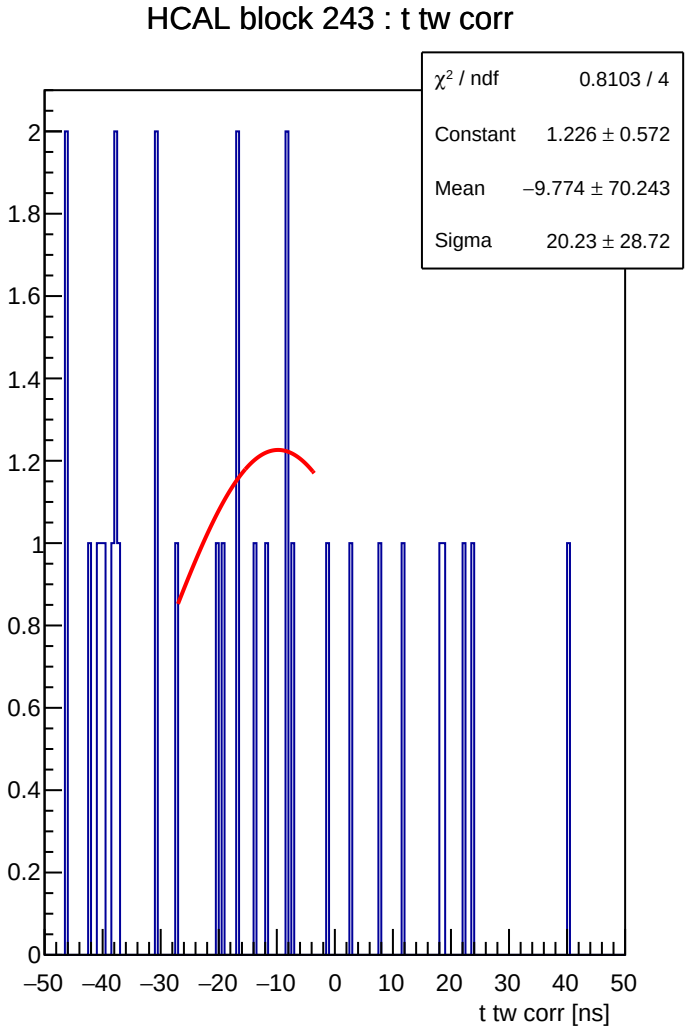

HCAL block 241 : t
χ² / ndf 27.81 / 25
Constant 4.286 ± 0.638
Mean 0.4786 ± 0.6745
Sigma 4.663 ± 0.863
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

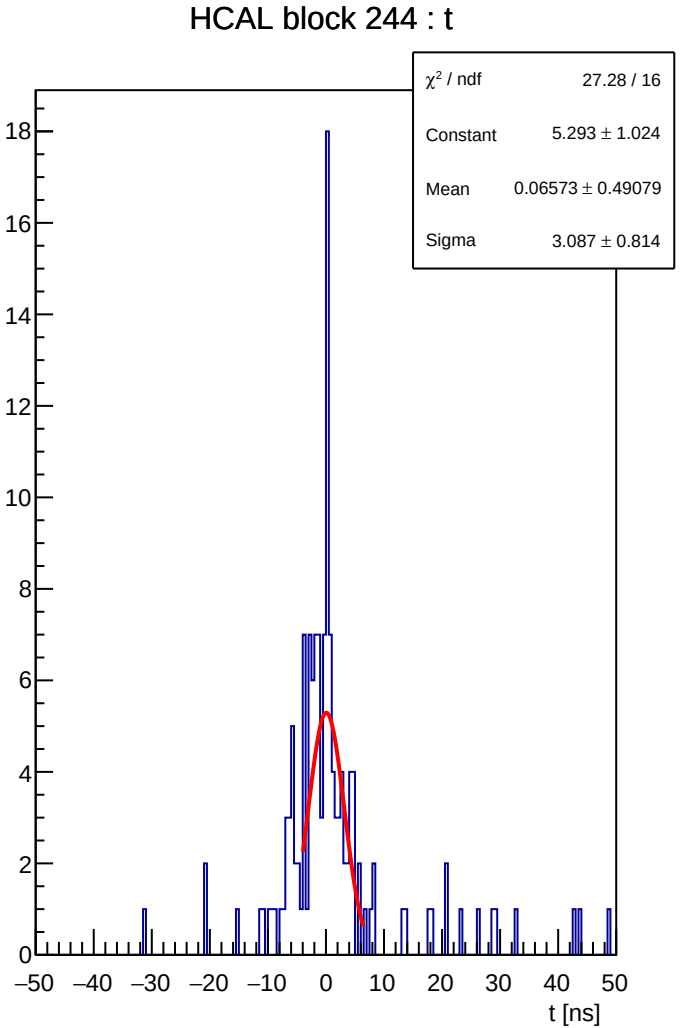

HCAL block 241 : t tw corr
χ² / ndf 28.85 / 26
Constant 4.28 ± 0.63
Mean 0.02484 ± 0.66975
Sigma 4.669 ± 0.804
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

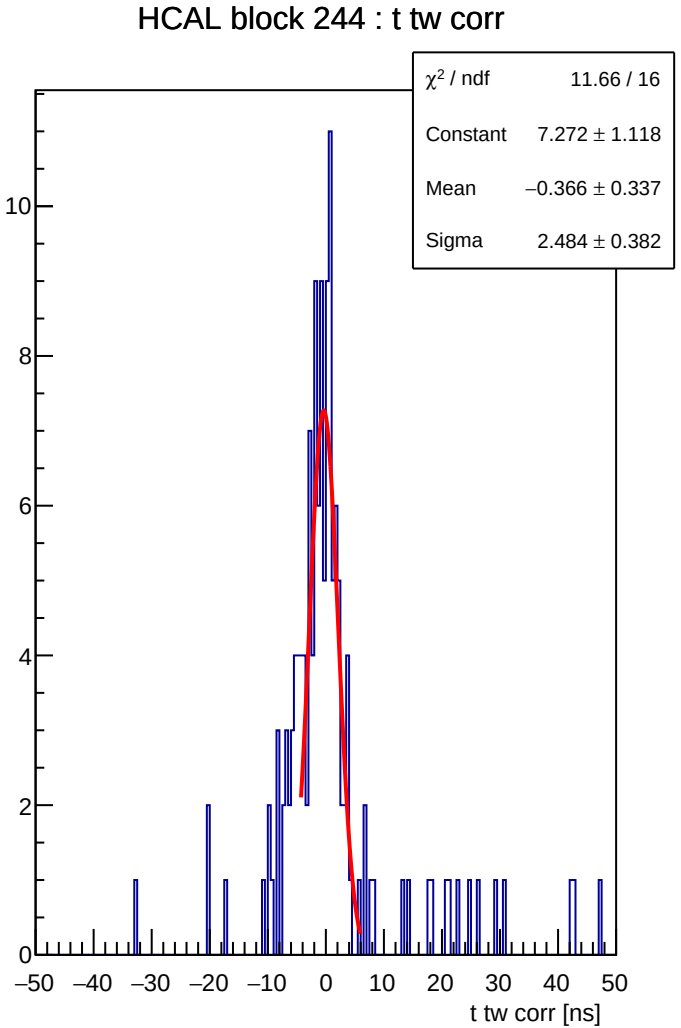

HCAL block 242 : t
χ² / ndf 14.7 / 22
Constant 11.71 ± 1.12
Mean 1.36 ± 0.38
Sigma 4.141 ± 0.490
t [ns]

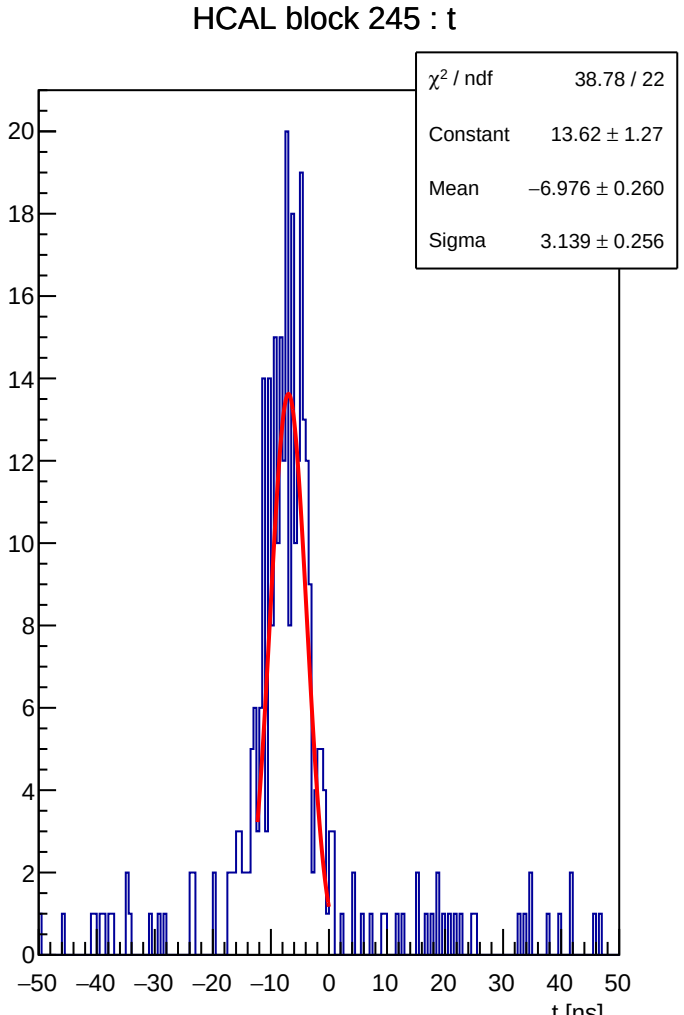

HCAL block 242 : t tw corr
χ² / ndf 9.169 / 23
Constant 12.67 ± 1.15
Mean 1.608 ± 0.327
Sigma 3.866 ± 0.365
t tw corr [ns]

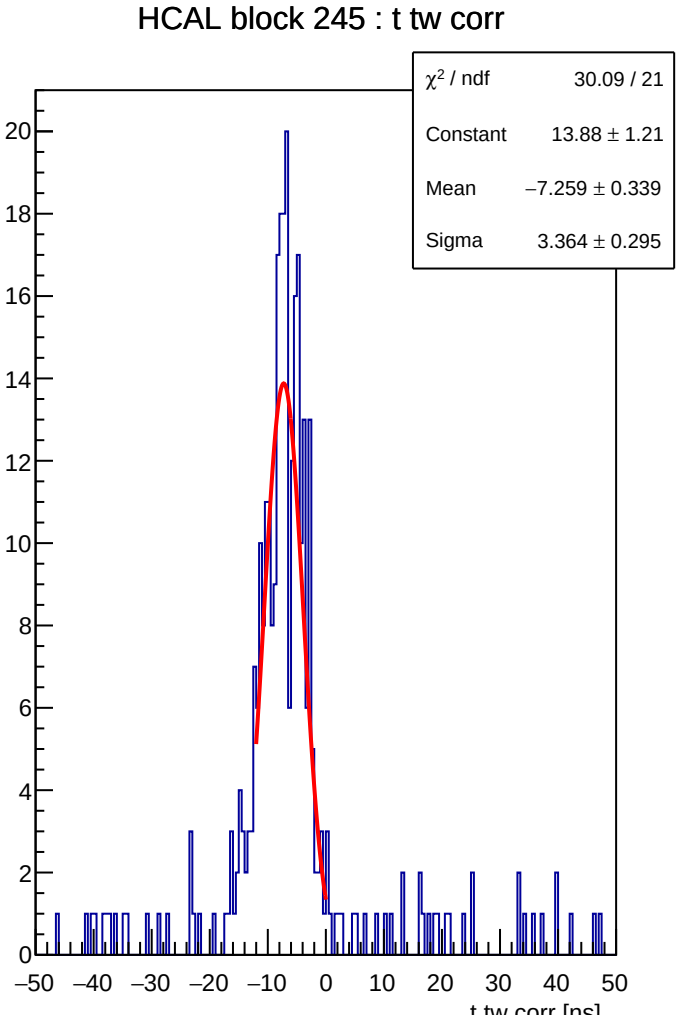

HCAL block 243 : t
χ² / ndf 0.0001051 / 6
Constant 1.005 ± 0.319
Mean −12.74 ± 156.48
Sigma 50.5 ± 49.1
t [ns]

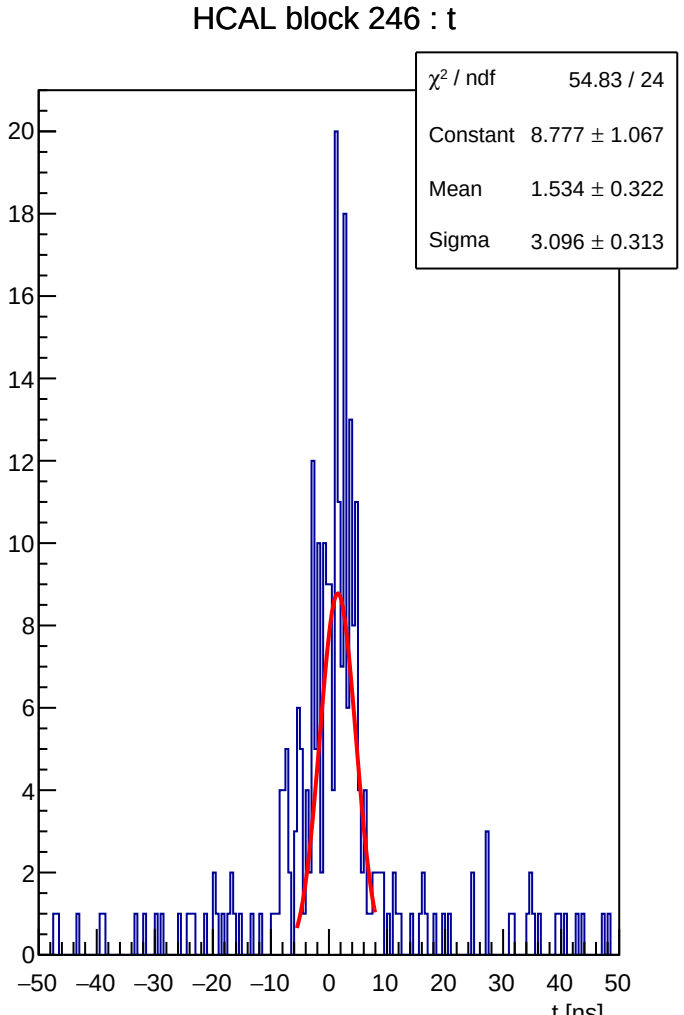

HCAL block 243 : t tw corr
χ² / ndf 0.8103 / 4
Constant 1.226 ± 0.572
Mean −9.774 ± 70.243
Sigma 20.23 ± 28.72
t tw corr [ns]

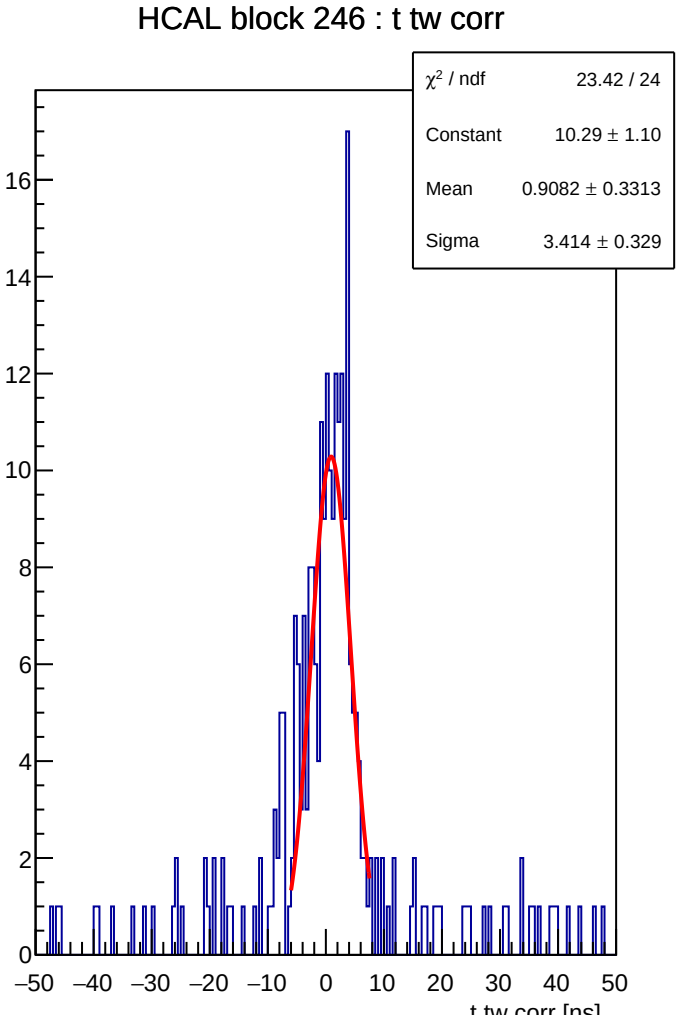

HCAL block 244 : t
χ² / ndf 27.28 / 16
Constant 5.293 ± 1.024
Mean 0.06573 ± 0.49079
Sigma 3.087 ± 0.814
18
16
14
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

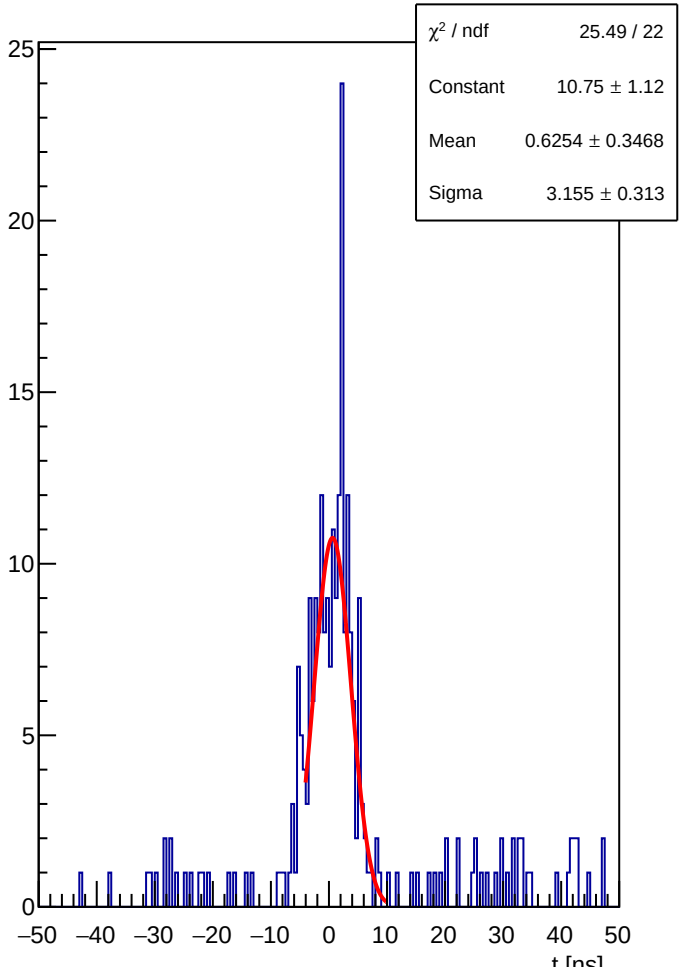

HCAL block 244 : t tw corr
χ² / ndf 11.66 / 16
Constant 7.272 ± 1.118
Mean –0.366 ± 0.337
Sigma 2.484 ± 0.382
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

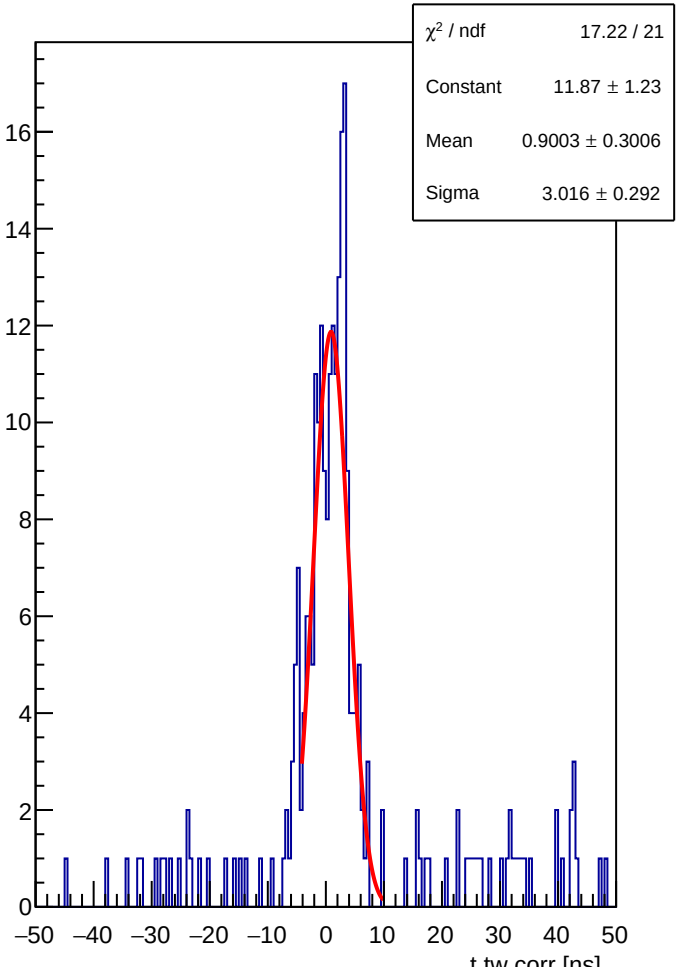

HCAL block 245 : t
χ² / ndf 38.78 / 22
Constant 13.62 ± 1.27
Mean −6.976 ± 0.260
Sigma 3.139 ± 0.256
t [ns]

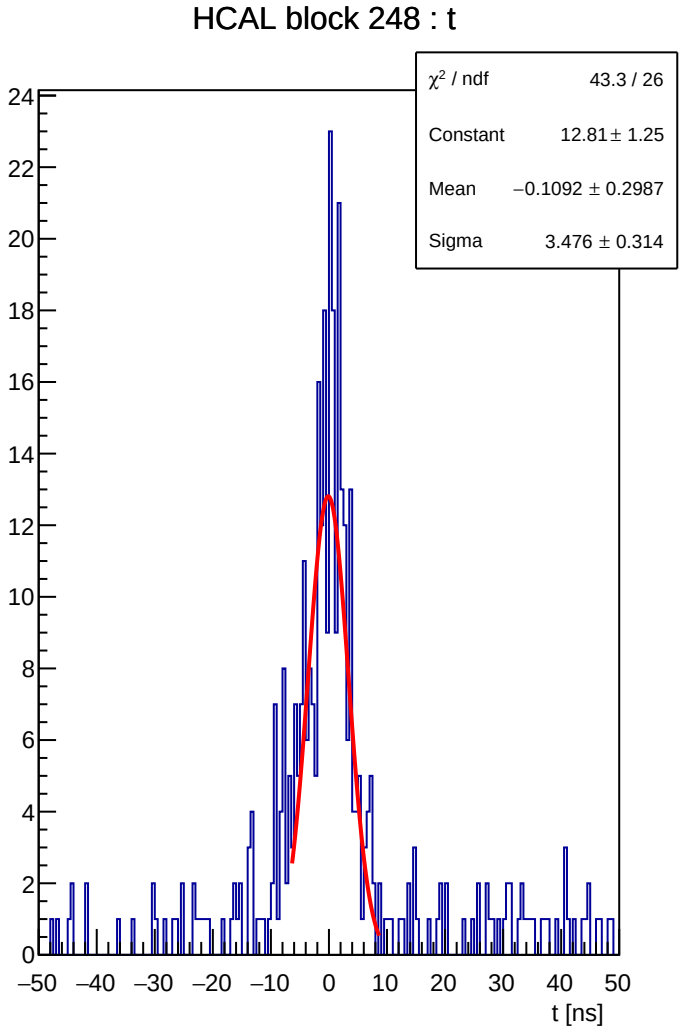

HCAL block 245 : t tw corr
χ² / ndf 30.09 / 21
Constant 13.88 ± 1.21
Mean −7.259 ± 0.339
Sigma 3.364 ± 0.295
t tw corr [ns]

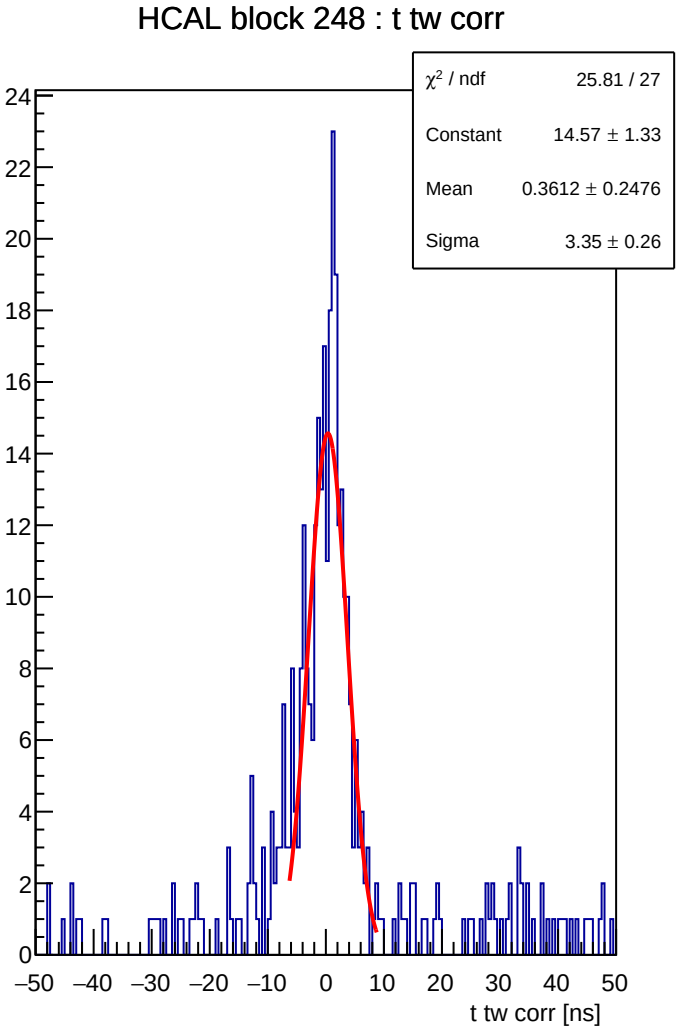

HCAL block 246 : t
χ² / ndf 54.83 / 24
Constant 8.777 ± 1.067
Mean 1.534 ± 0.322
Sigma 3.096 ± 0.313
t [ns]

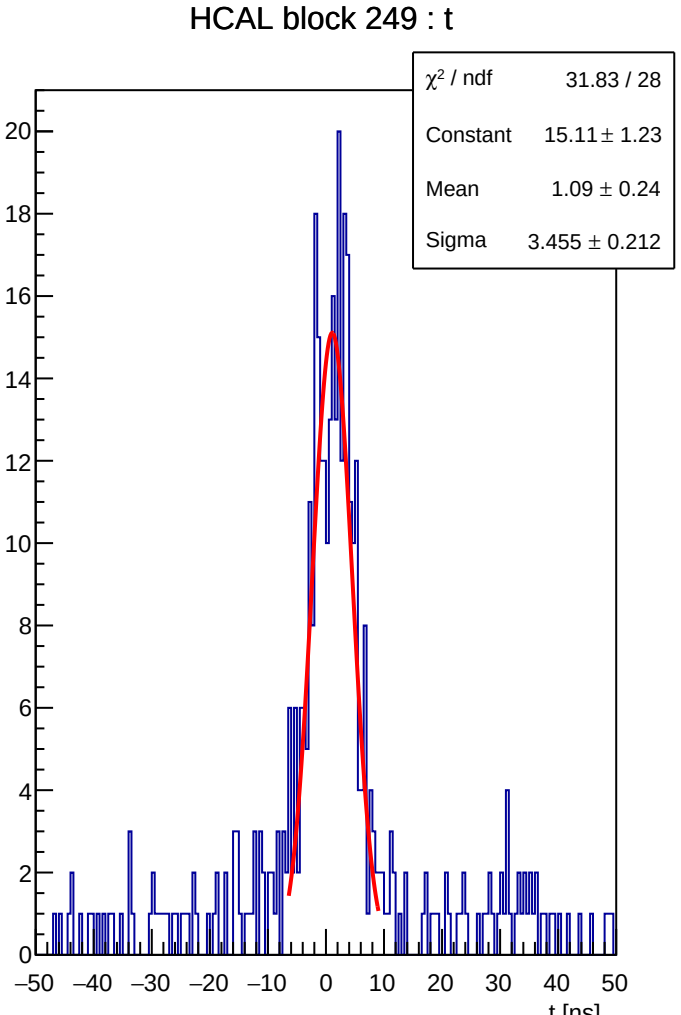

HCAL block 246 : t tw corr
χ² / ndf 23.42 / 24
Constant 10.29 ± 1.10
Mean 0.9082 ± 0.3313
Sigma 3.414 ± 0.329
t tw corr [ns]

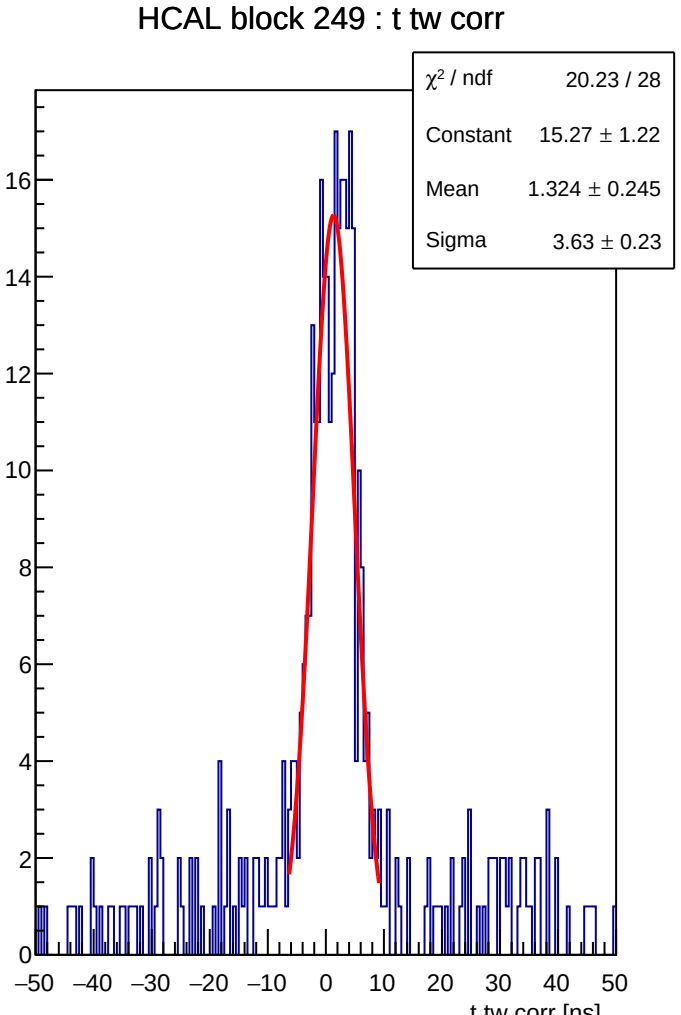

HCAL block 247 : t
χ² / ndf 25.49 / 22
Constant 10.75 ± 1.12
Mean 0.6254 ± 0.3468
Sigma 3.155 ± 0.313
t [ns]

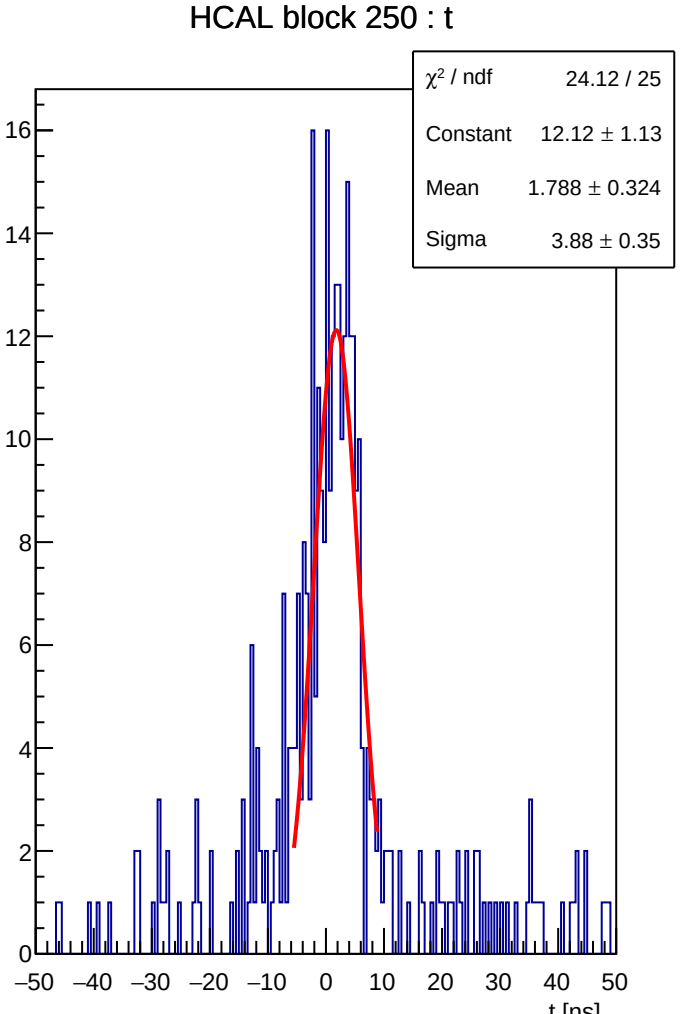

HCAL block 247 : t tw corr
χ² / ndf 17.22 / 21
Constant 11.87 ± 1.23
Mean 0.9003 ± 0.3006
Sigma 3.016 ± 0.292
t tw corr [ns]

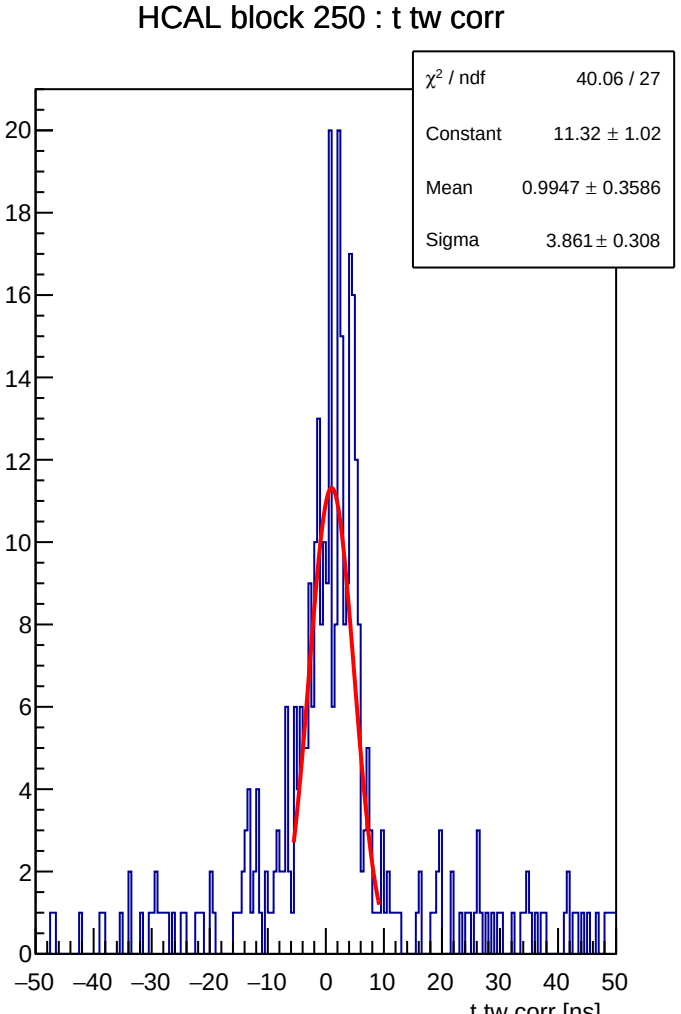

HCAL block 248 : t
χ² / ndf 43.3 / 26
Constant 12.81 ± 1.25
Mean −0.1092 ± 0.2987
Sigma 3.476 ± 0.314
t [ns]

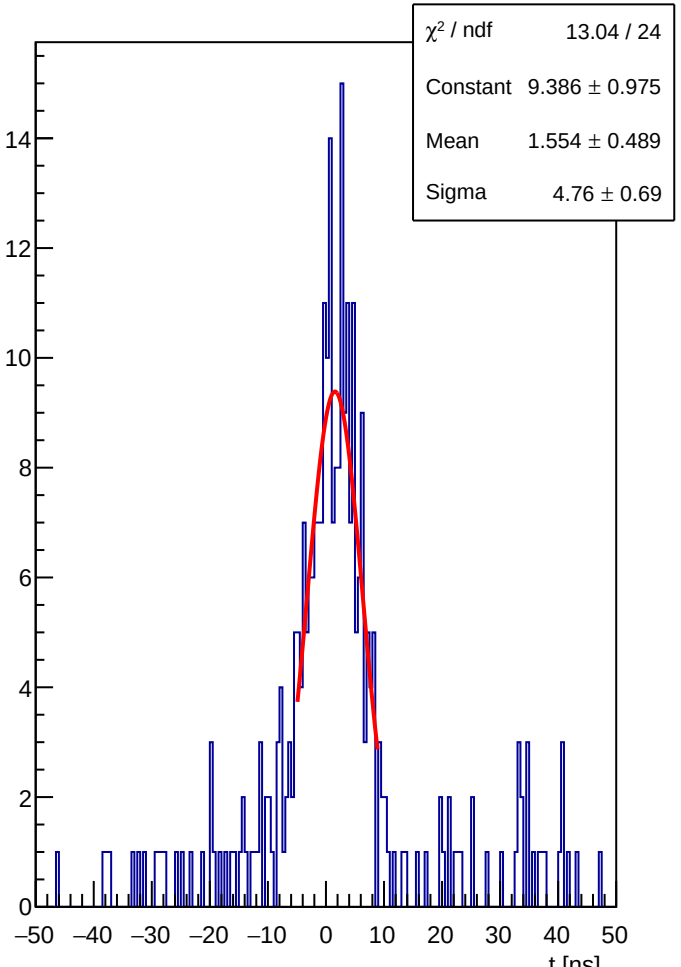

HCAL block 248 : t tw corr
χ² / ndf 25.81 / 27
Constant 14.57 ± 1.33
Mean 0.3612 ± 0.2476
Sigma 3.35 ± 0.26
t tw corr [ns]

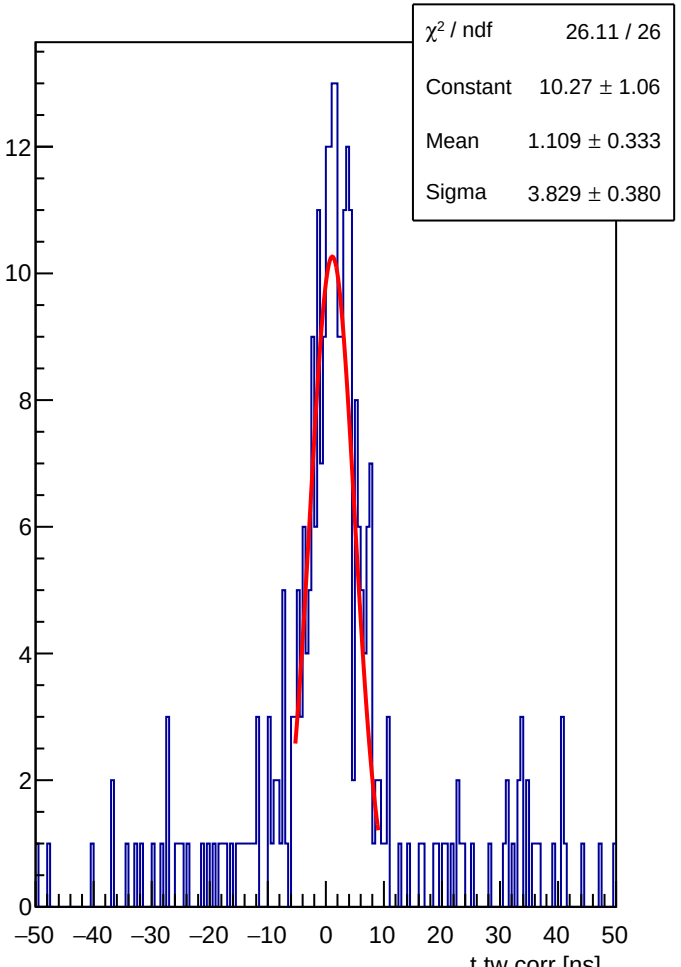

HCAL block 249 : t
χ² / ndf 31.83 / 28
Constant 15.11 ± 1.23
Mean 1.09 ± 0.24
Sigma 3.455 ± 0.212
t [ns]

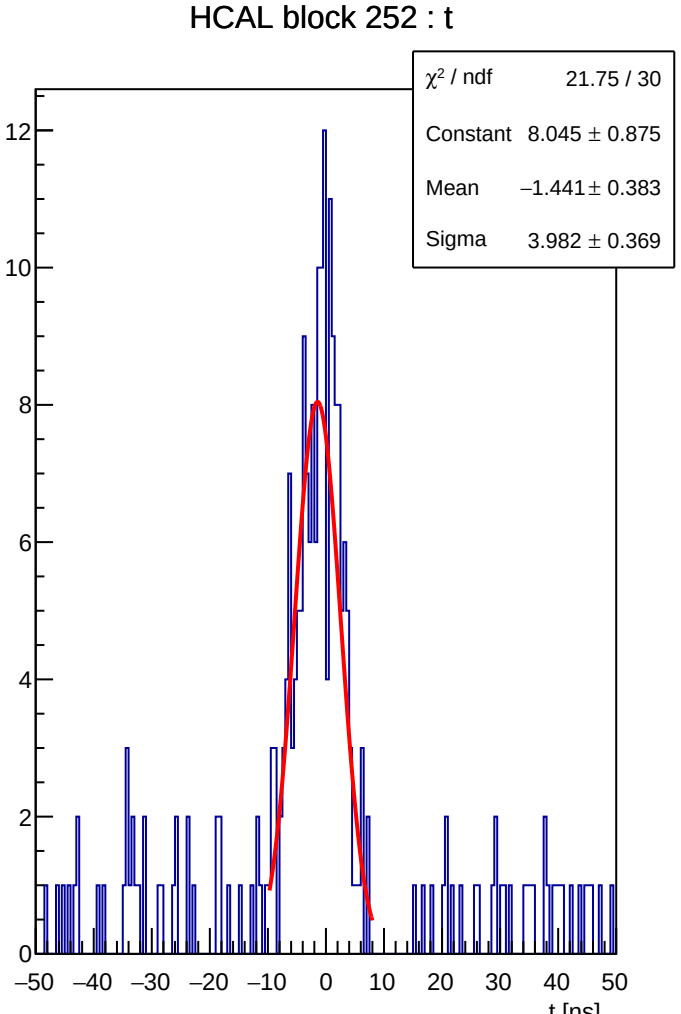

HCAL block 249 : t tw corr
χ² / ndf 20.23 / 28
Constant 15.27 ± 1.22
Mean 1.324 ± 0.245
Sigma 3.63 ± 0.23
t tw corr [ns]

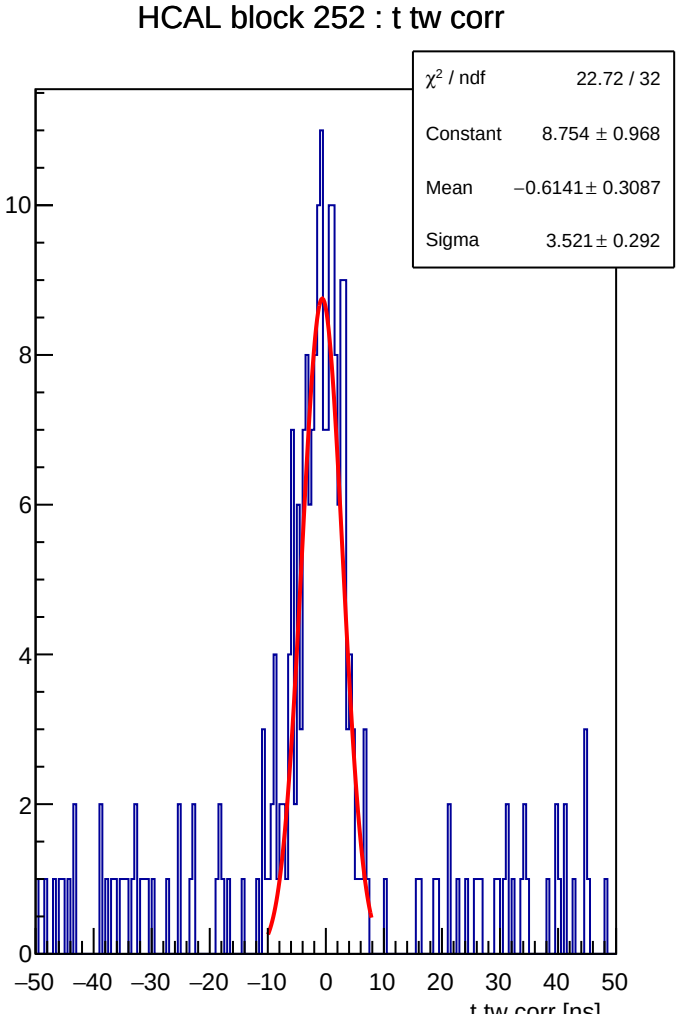

HCAL block 250 : t
χ² / ndf 24.12 / 25
Constant 12.12 ± 1.13
Mean 1.788 ± 0.324
Sigma 3.88 ± 0.35
t [ns]

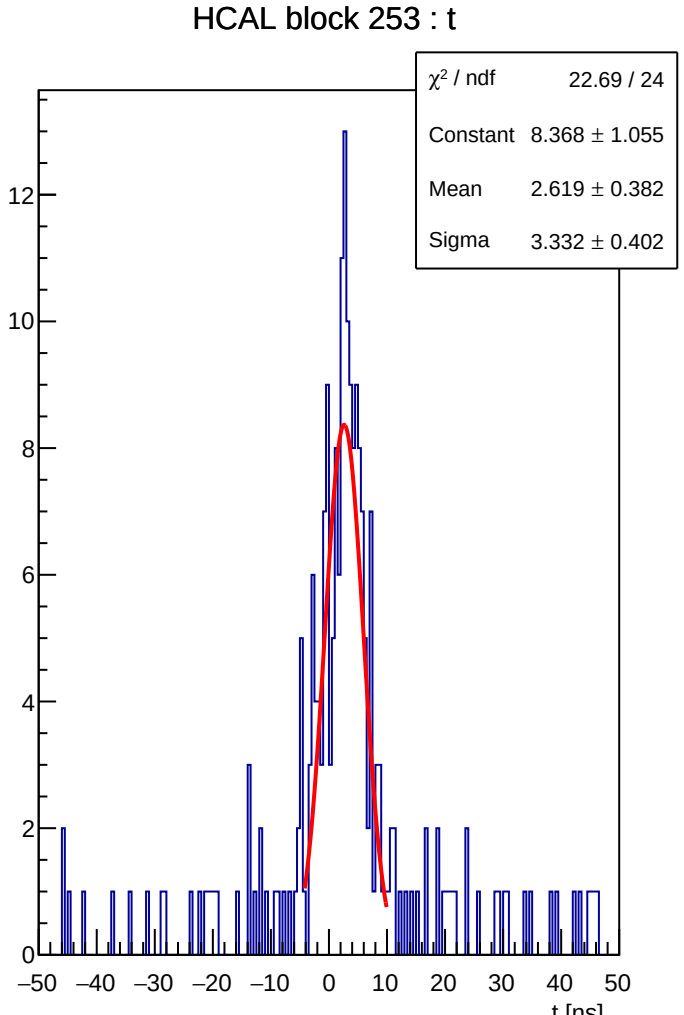

HCAL block 250 : t tw corr
χ² / ndf 40.06 / 27
Constant 11.32 ± 1.02
Mean 0.9947 ± 0.3586
Sigma 3.861 ± 0.308
t tw corr [ns]

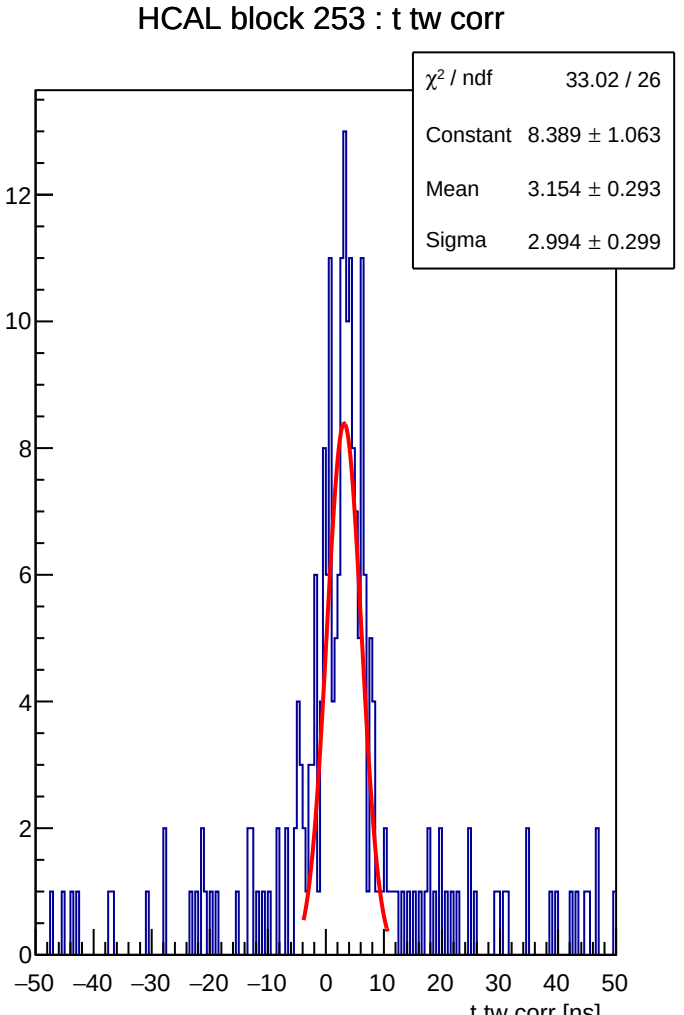

HCAL block 251 : t
χ² / ndf 13.04 / 24
Constant 9.386 ± 0.975
Mean 1.554 ± 0.489
Sigma 4.76 ± 0.69
0
2
4
6
8
10
12
14
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

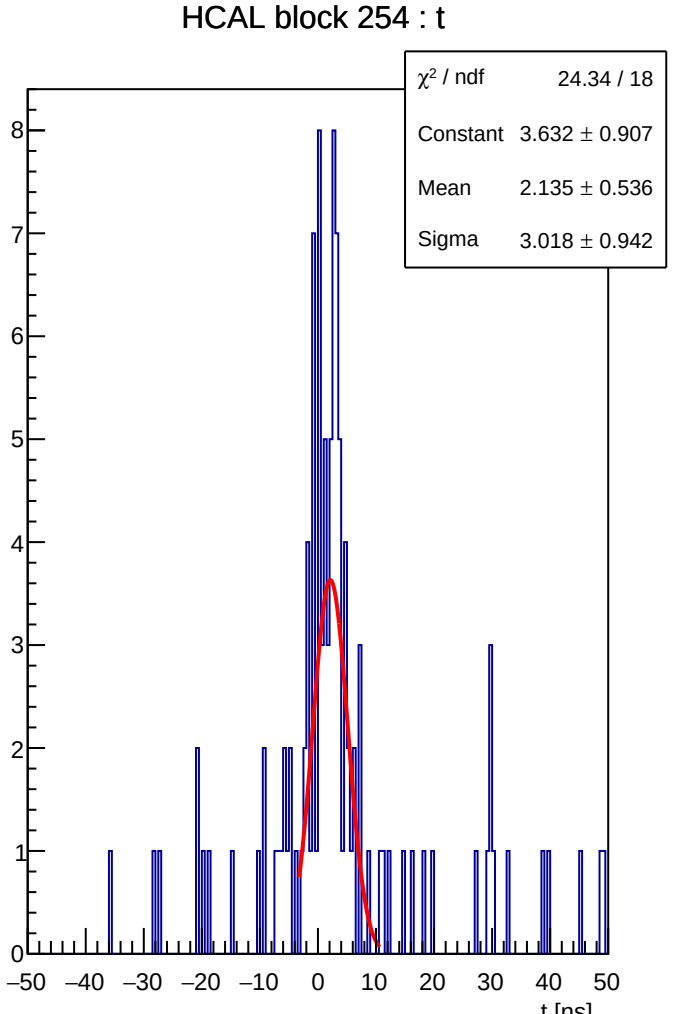

HCAL block 251 : t tw corr
χ² / ndf 26.11 / 26
Constant 10.27 ± 1.06
Mean 1.109 ± 0.333
Sigma 3.829 ± 0.380
0
2
4
6
8
10
12
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

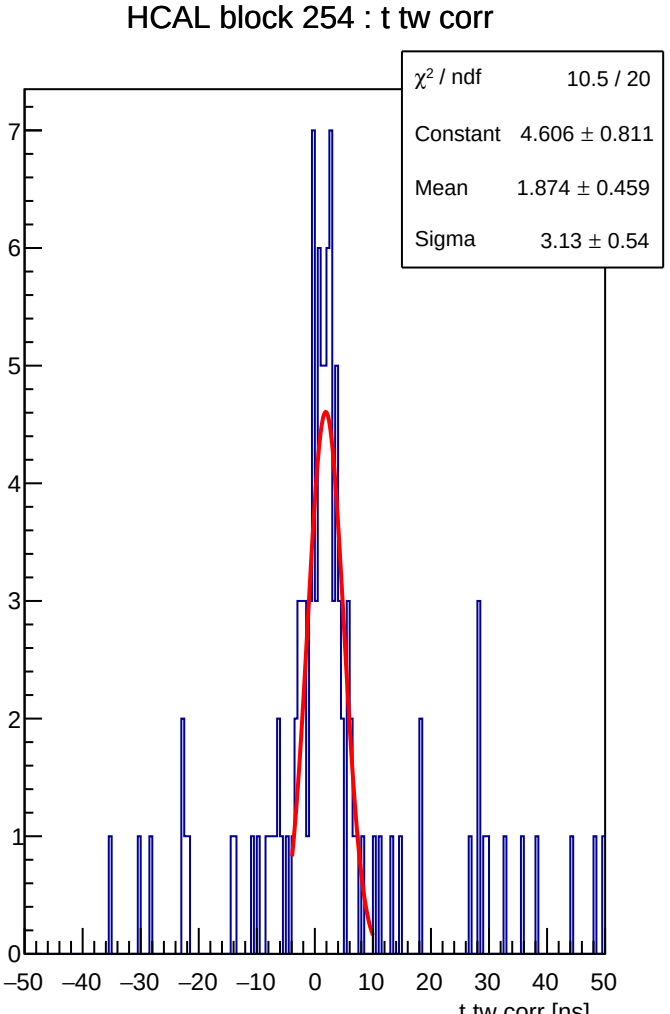

HCAL block 252 : t
χ² / ndf 21.75 / 30
Constant 8.045 ± 0.875
Mean −1.441 ± 0.383
Sigma 3.982 ± 0.369
12
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

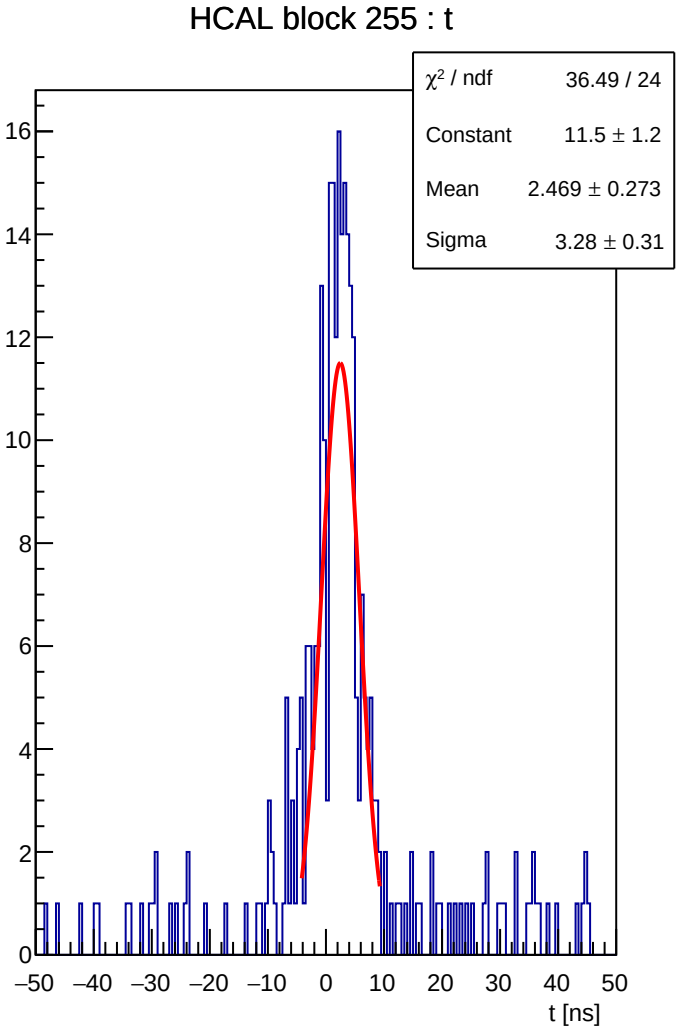

HCAL block 252 : t tw corr
χ² / ndf 22.72 / 32
Constant 8.754 ± 0.968
Mean −0.6141 ± 0.3087
Sigma 3.521 ± 0.292
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

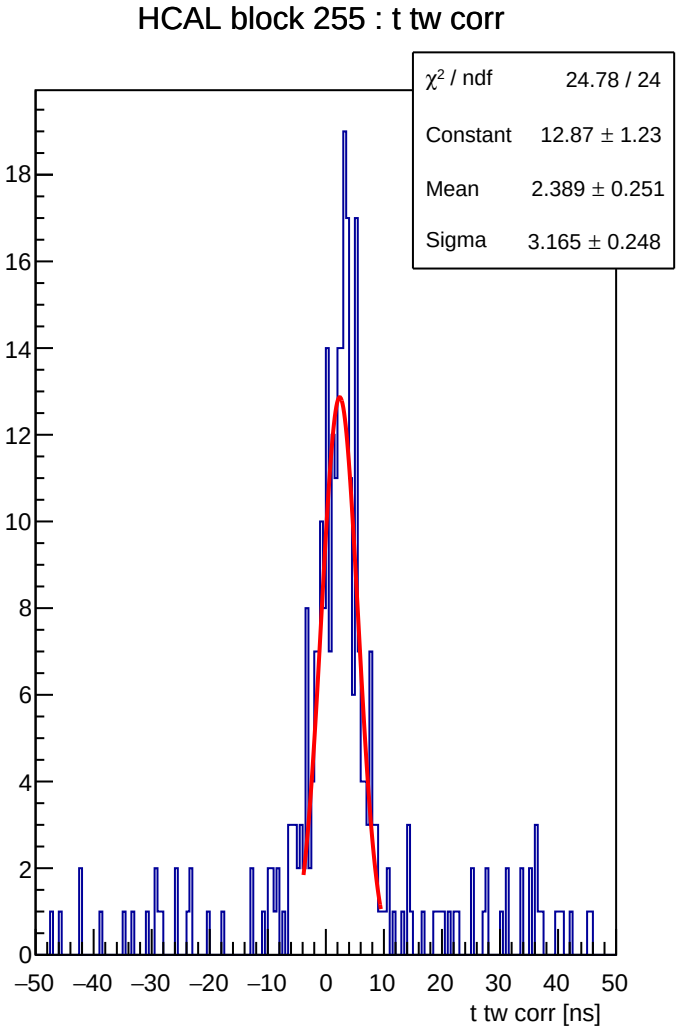

HCAL block 253 : t
χ² / ndf 22.69 / 24
Constant 8.368 ± 1.055
Mean 2.619 ± 0.382
Sigma 3.332 ± 0.402
0
2
4
6
8
10
12
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

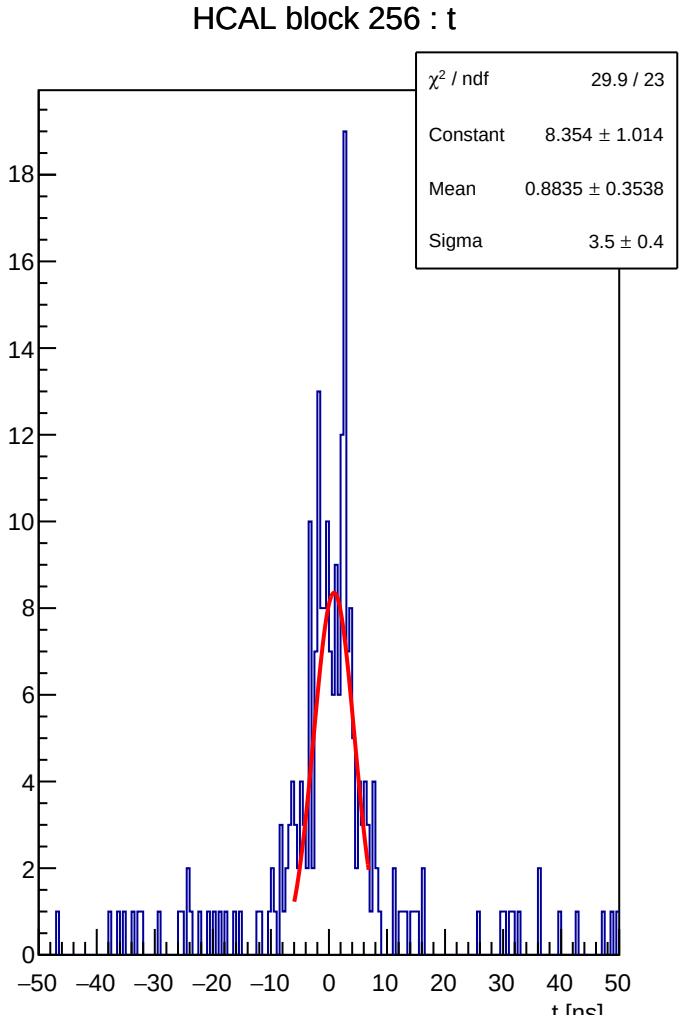

HCAL block 253 : t tw corr
χ² / ndf 33.02 / 26
Constant 8.389 ± 1.063
Mean 3.154 ± 0.293
Sigma 2.994 ± 0.299
0
2
4
6
8
10
12
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

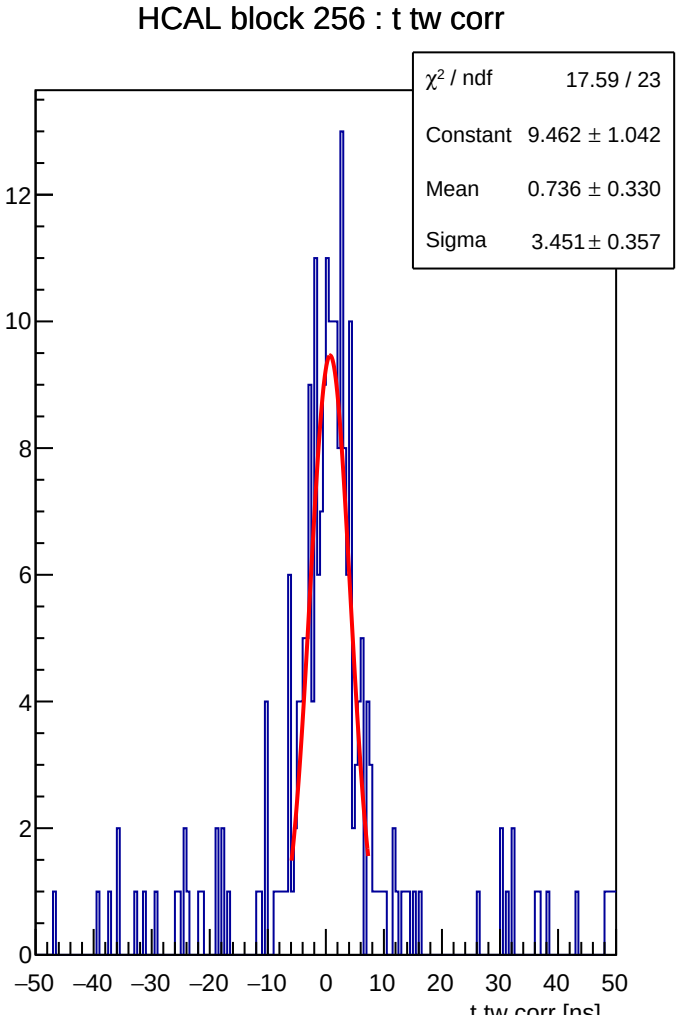

HCAL block 254 : t
χ² / ndf 24.34 / 18
Constant 3.632 ± 0.907
Mean 2.135 ± 0.536
Sigma 3.018 ± 0.942
t [ns]

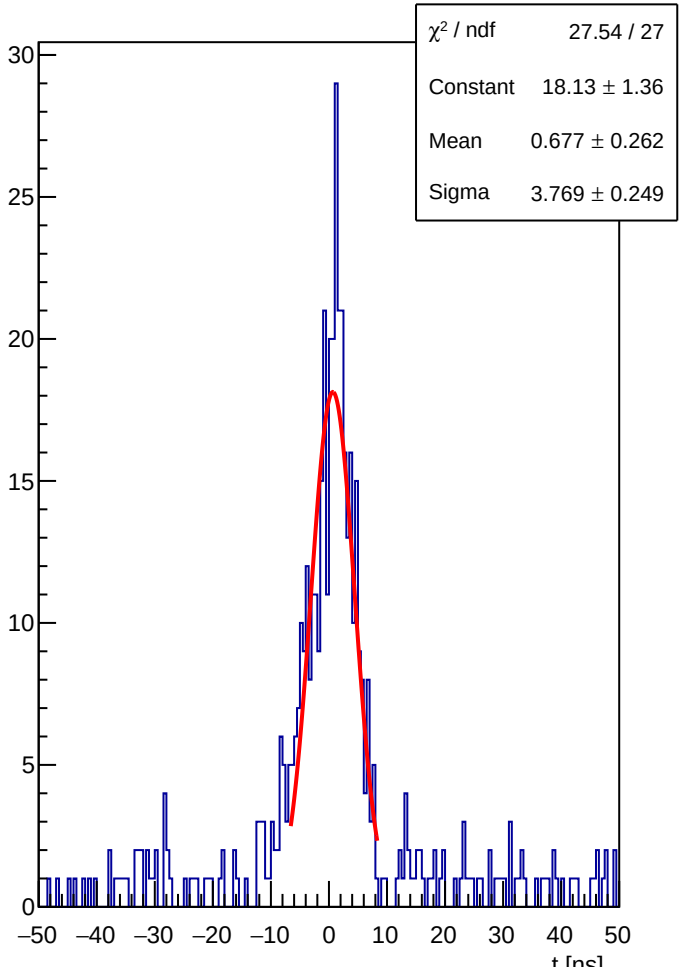

HCAL block 254 : t tw corr
χ² / ndf 10.5 / 20
Constant 4.606 ± 0.811
Mean 1.874 ± 0.459
Sigma 3.13 ± 0.54
t tw corr [ns]

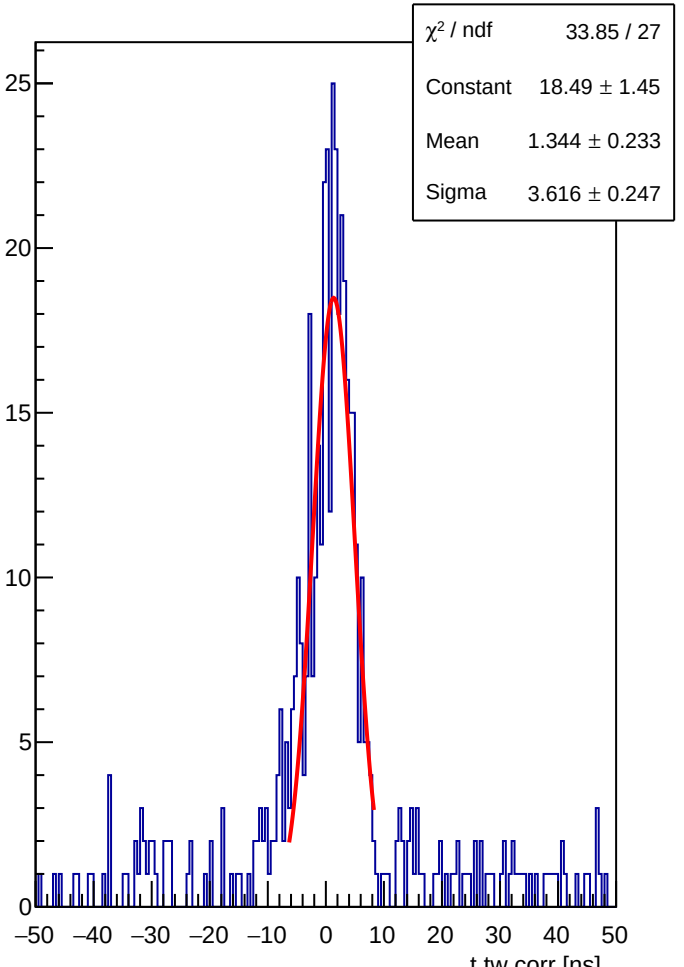

HCAL block 255 : t
χ² / ndf 36.49 / 24
Constant 11.5 ± 1.2
Mean 2.469 ± 0.273
Sigma 3.28 ± 0.31
t [ns]

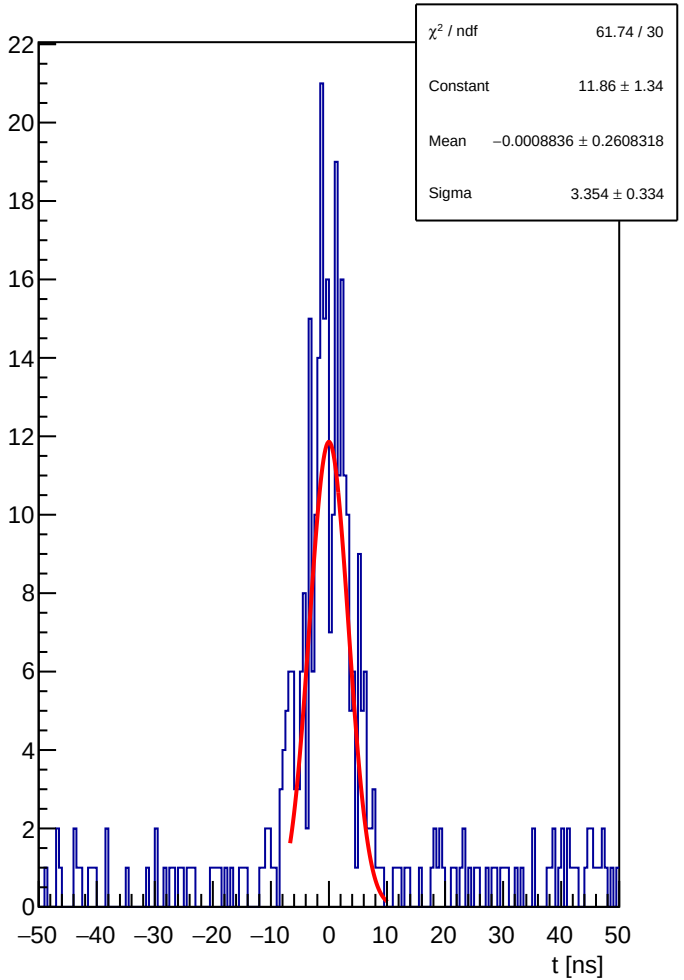

HCAL block 255 : t tw corr
χ² / ndf 24.78 / 24
Constant 12.87 ± 1.23
Mean 2.389 ± 0.251
Sigma 3.165 ± 0.248
t tw corr [ns]

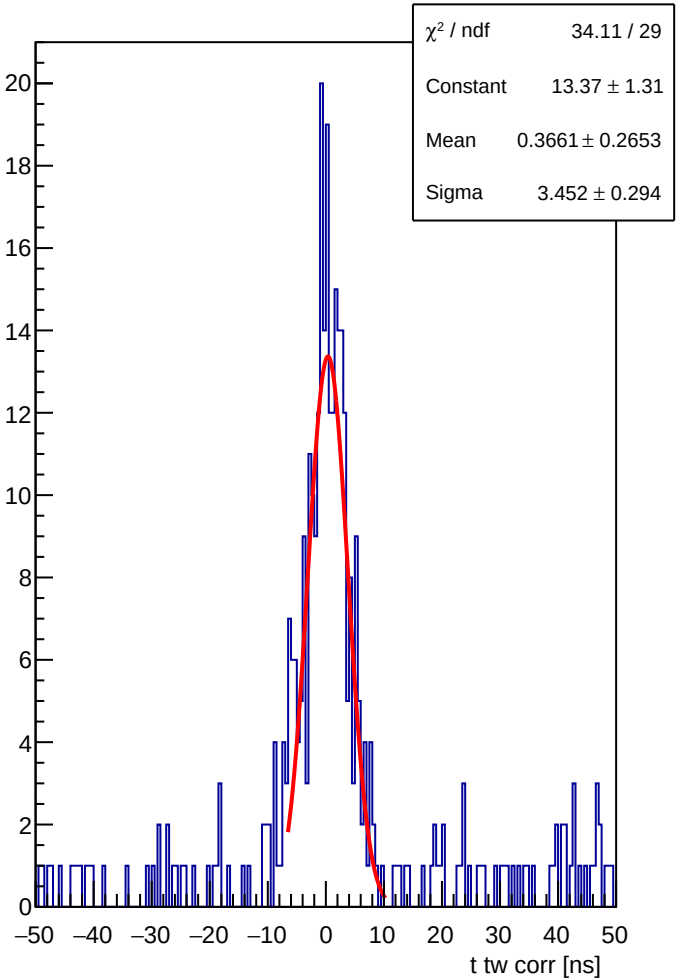

HCAL block 256 : t
χ² / ndf 29.9 / 23
Constant 8.354 ± 1.014
Mean 0.8835 ± 0.3538
Sigma 3.5 ± 0.4
t [ns]

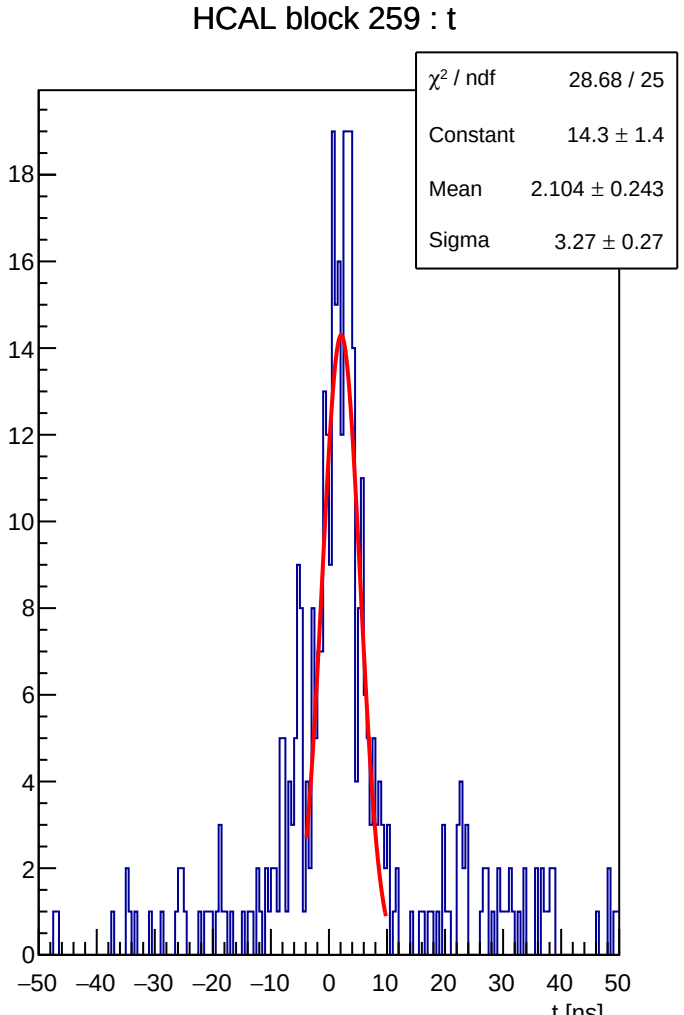

HCAL block 256 : t tw corr
χ² / ndf 17.59 / 23
Constant 9.462 ± 1.042
Mean 0.736 ± 0.330
Sigma 3.451 ± 0.357
t tw corr [ns]

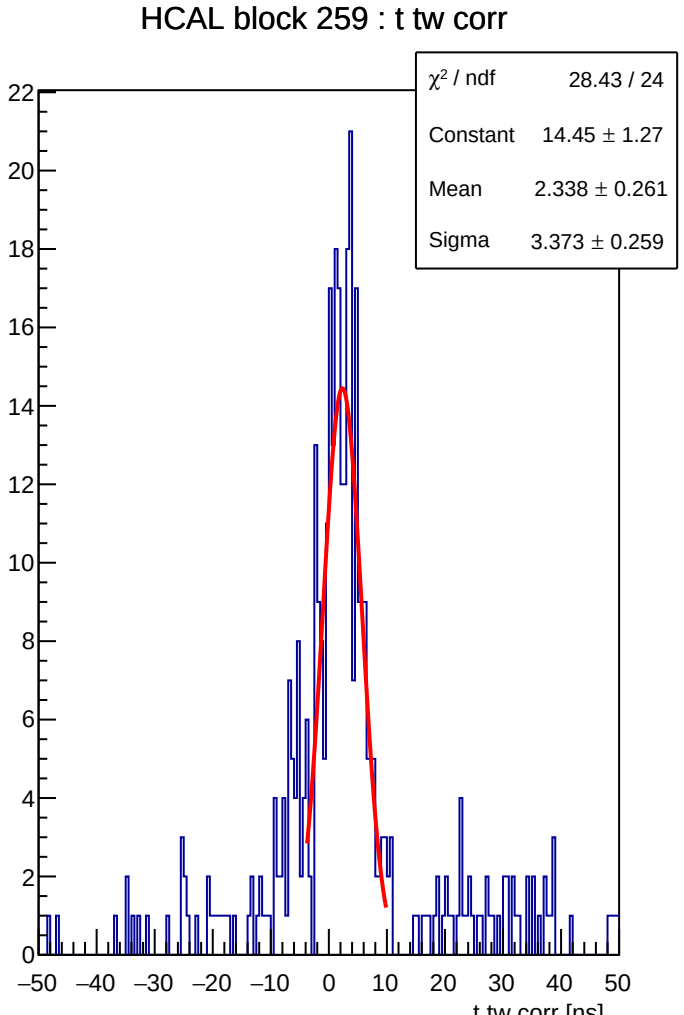

HCAL block 257 : t
χ² / ndf 27.54 / 27
Constant 18.13 ± 1.36
Mean 0.677 ± 0.262
Sigma 3.769 ± 0.249
30
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

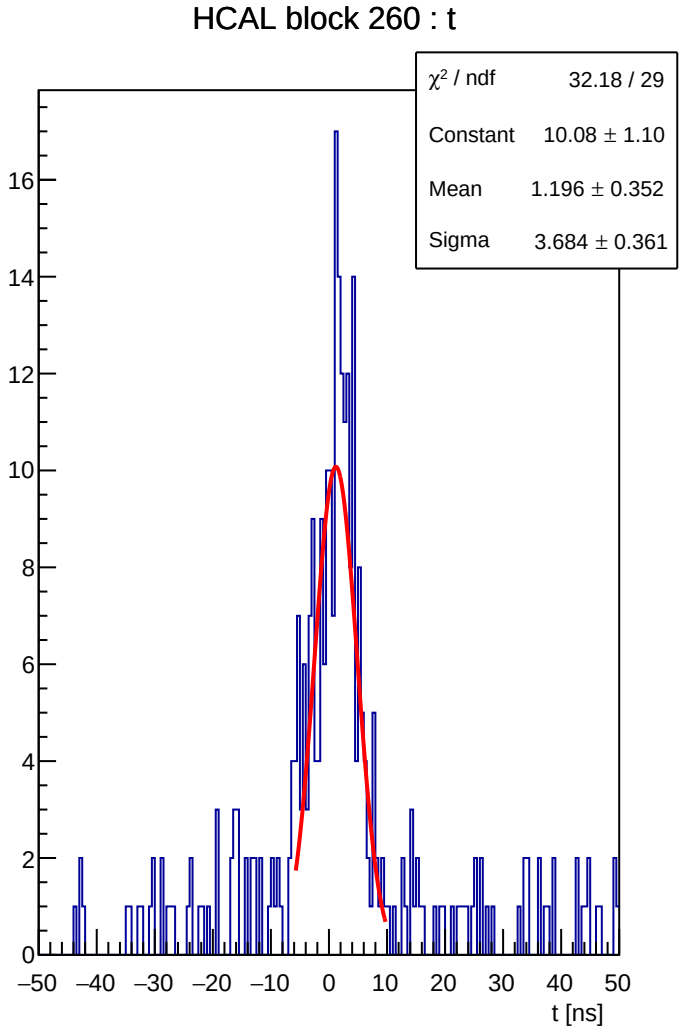

HCAL block 257 : t tw corr
χ² / ndf 33.85 / 27
Constant 18.49 ± 1.45
Mean 1.344 ± 0.233
Sigma 3.616 ± 0.247
25
20
15
10
5
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

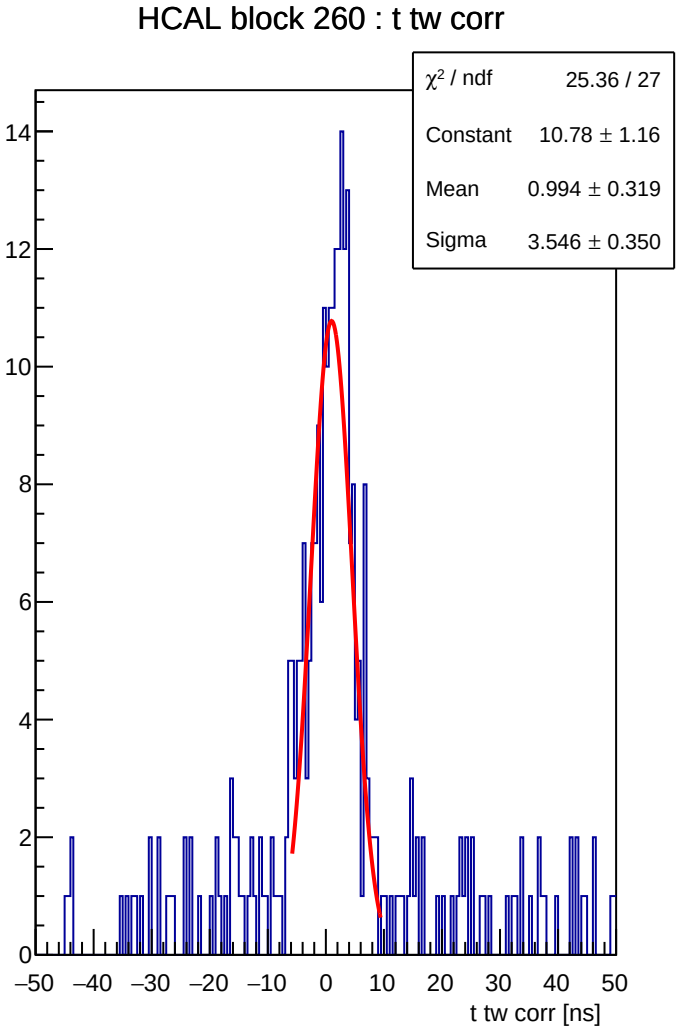

HCAL block 258 : t
χ² / ndf 61.74 / 30
Constant 11.86 ± 1.34
Mean −0.0008836 ± 0.2608318
Sigma 3.354 ± 0.334
t [ns]

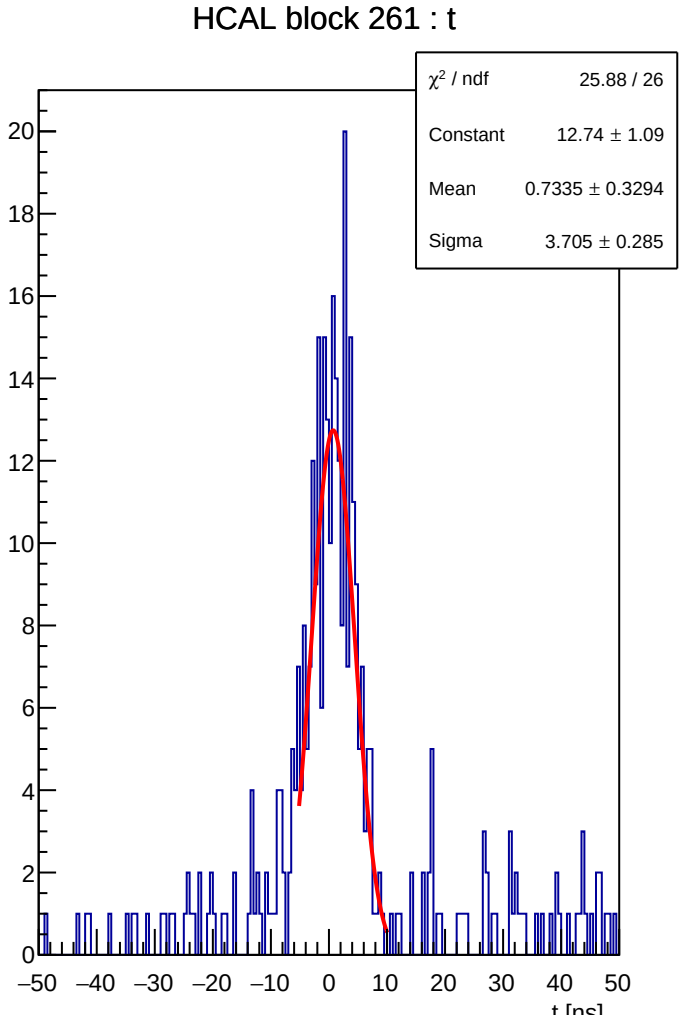

HCAL block 258 : t tw corr
χ² / ndf 34.11 / 29
Constant 13.37 ± 1.31
Mean 0.3661 ± 0.2653
Sigma 3.452 ± 0.294
t tw corr [ns]

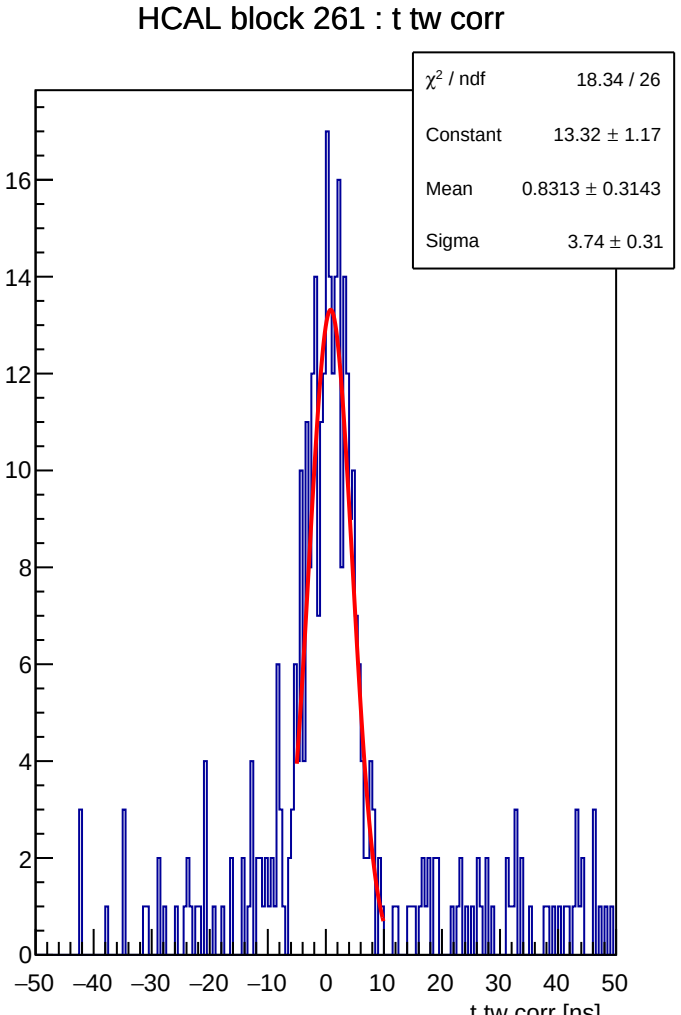

HCAL block 259 : t
χ² / ndf 28.68 / 25
Constant 14.3 ± 1.4
Mean 2.104 ± 0.243
Sigma 3.27 ± 0.27
t [ns]

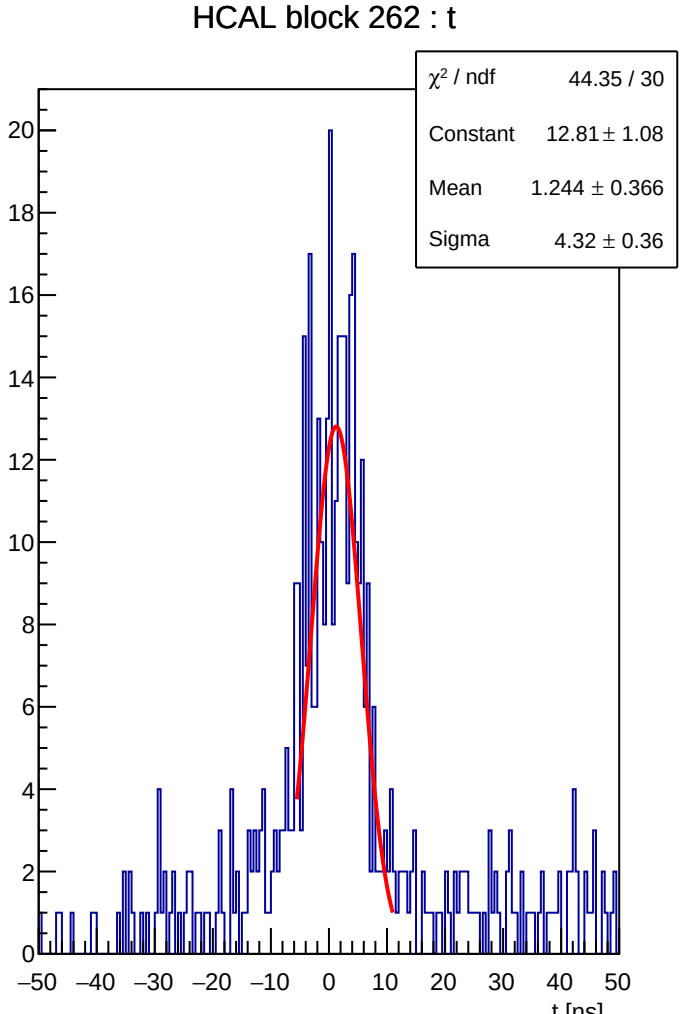

HCAL block 259 : t tw corr
χ² / ndf 28.43 / 24
Constant 14.45 ± 1.27
Mean 2.338 ± 0.261
Sigma 3.373 ± 0.259
t tw corr [ns]

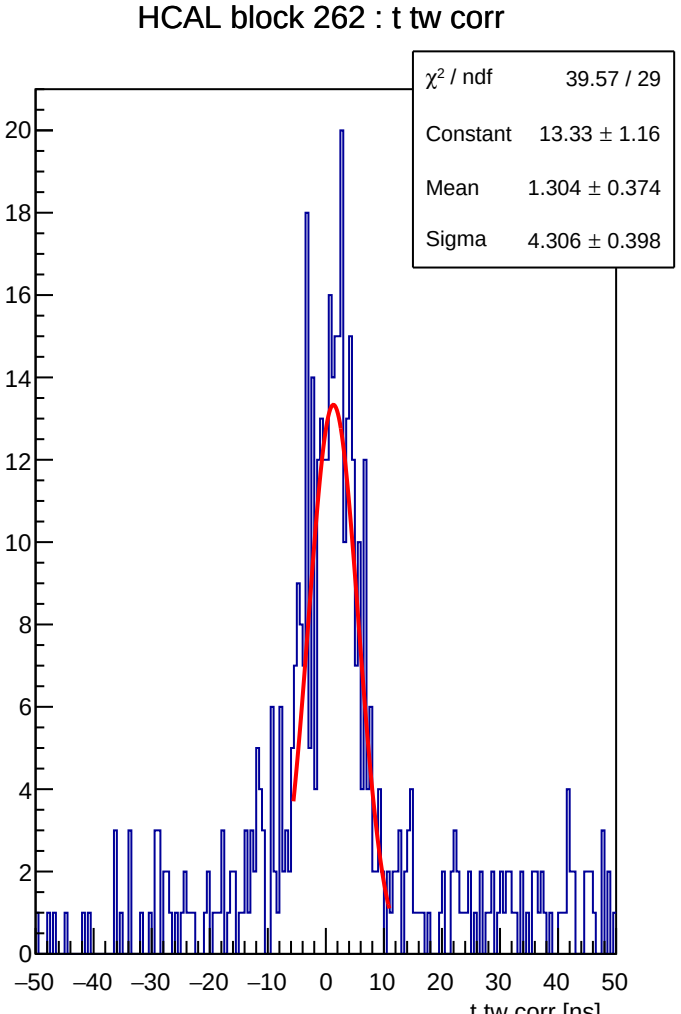

HCAL block 260 : t
χ² / ndf 32.18 / 29
Constant 10.08 ± 1.10
Mean 1.196 ± 0.352
Sigma 3.684 ± 0.361
0 2 4 6 8 10 12 14 16
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

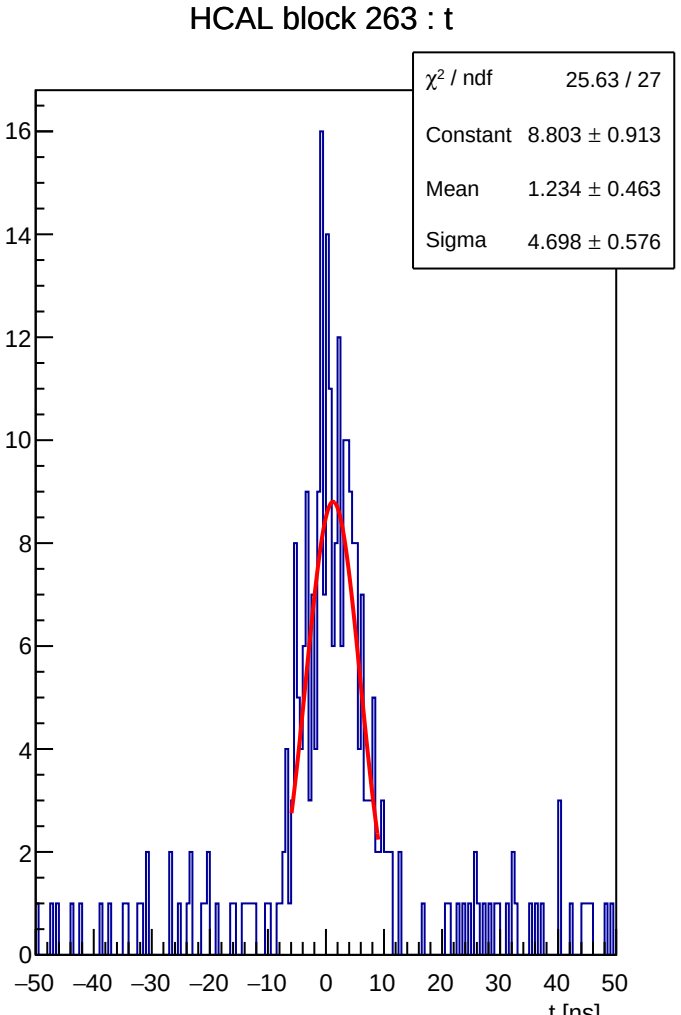

HCAL block 260 : t tw corr
χ² / ndf 25.36 / 27
Constant 10.78 ± 1.16
Mean 0.994 ± 0.319
Sigma 3.546 ± 0.350
0 2 4 6 8 10 12 14
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

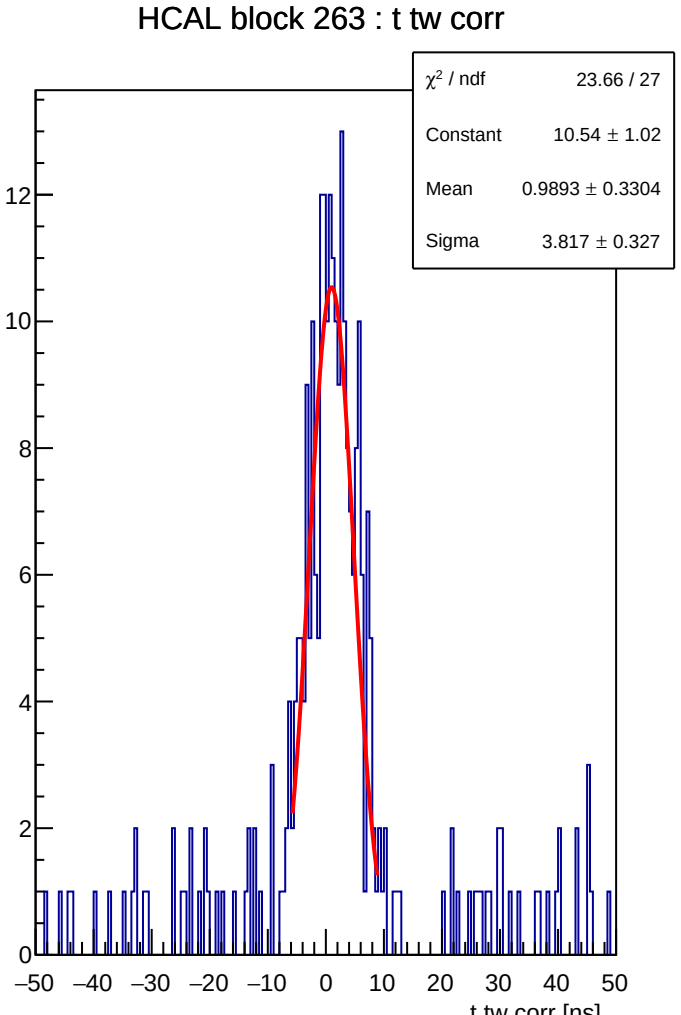

HCAL block 261 : t
χ² / ndf 25.88 / 26
Constant 12.74 ± 1.09
Mean 0.7335 ± 0.3294
Sigma 3.705 ± 0.285
t [ns]

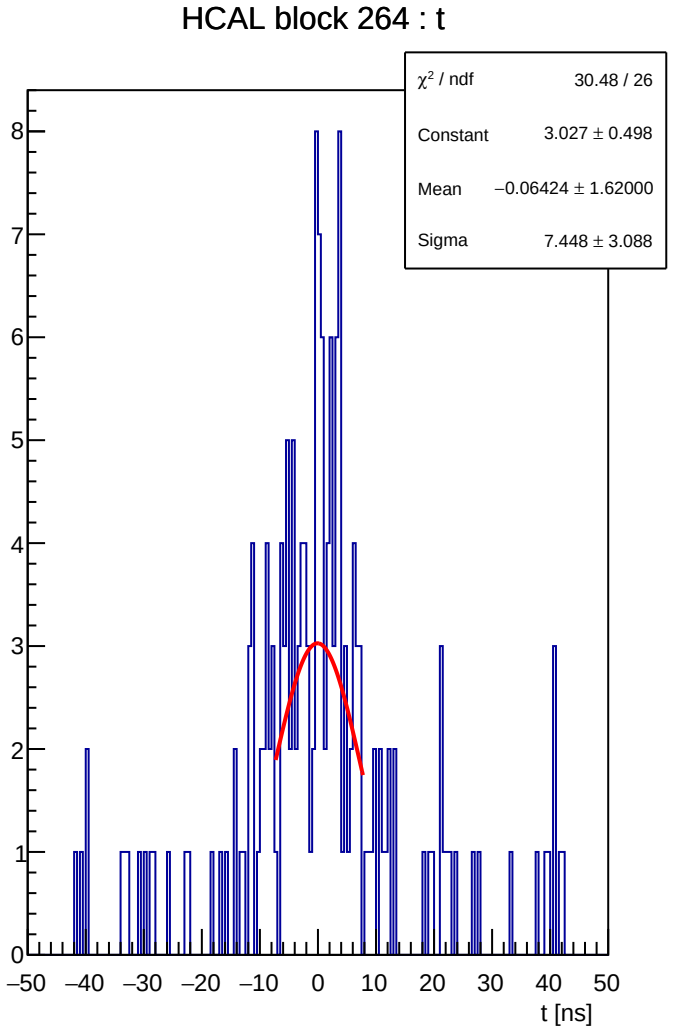

HCAL block 261 : t tw corr
χ² / ndf 18.34 / 26
Constant 13.32 ± 1.17
Mean 0.8313 ± 0.3143
Sigma 3.74 ± 0.31
t tw corr [ns]

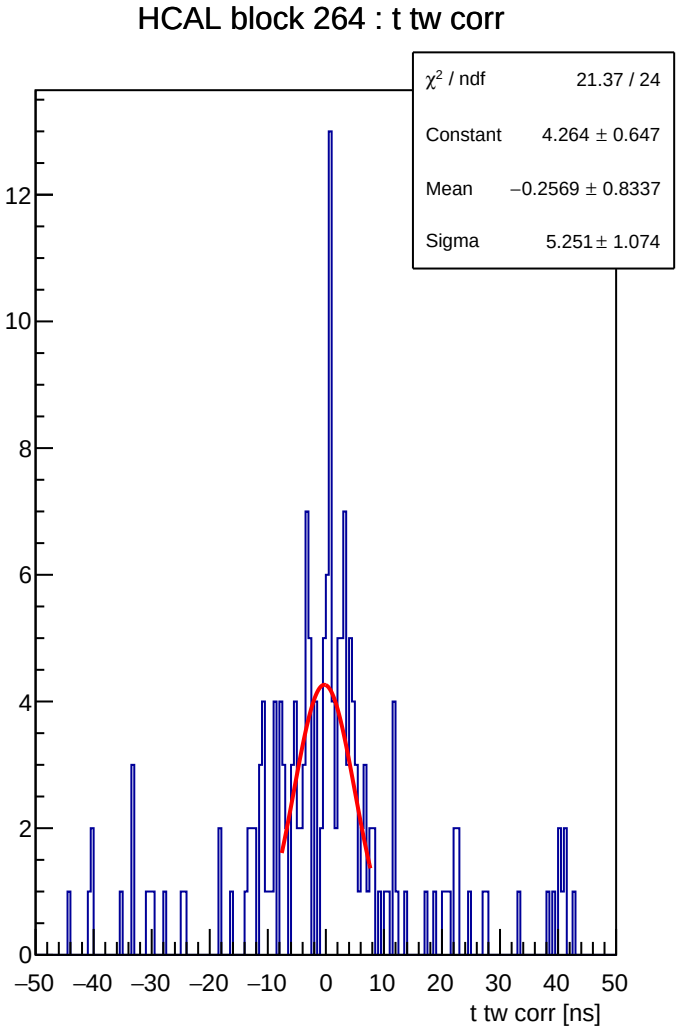

HCAL block 262 : t
χ² / ndf 44.35 / 30
Constant 12.81 ± 1.08
Mean 1.244 ± 0.366
Sigma 4.32 ± 0.36
t [ns]

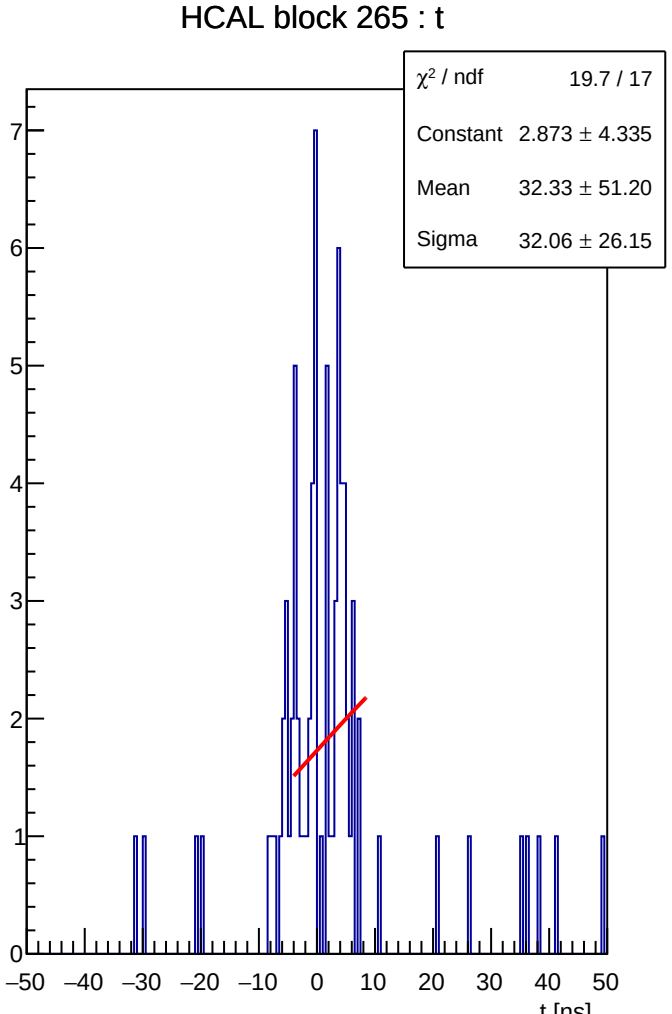

HCAL block 262 : t tw corr
χ² / ndf 39.57 / 29
Constant 13.33 ± 1.16
Mean 1.304 ± 0.374
Sigma 4.306 ± 0.398
t tw corr [ns]

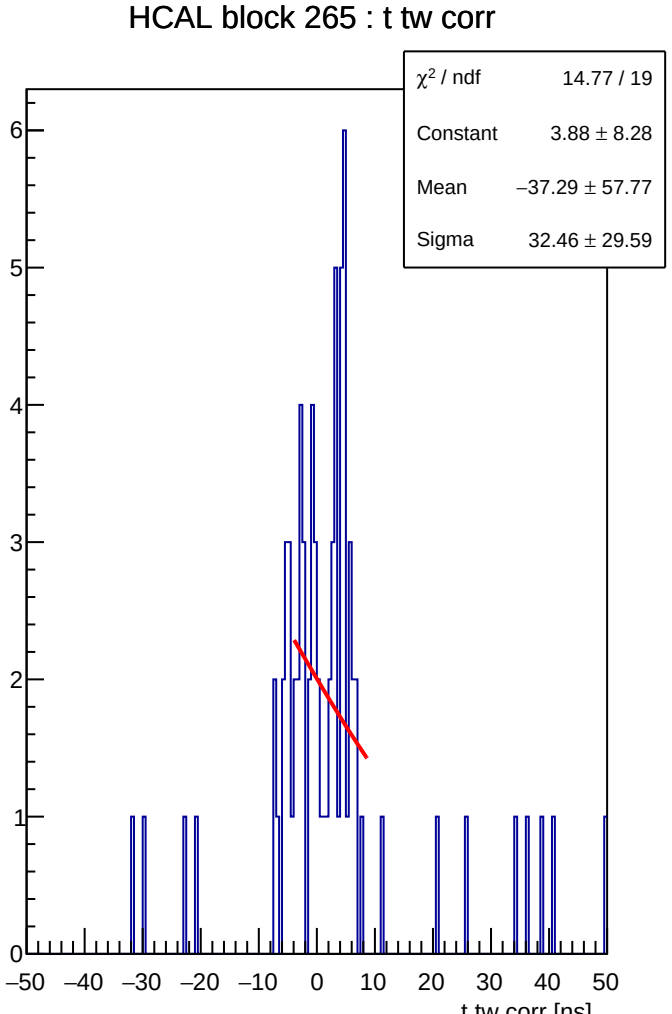

HCAL block 263 : t
χ² / ndf 25.63 / 27
Constant 8.803 ± 0.913
Mean 1.234 ± 0.463
Sigma 4.698 ± 0.576
16
14
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

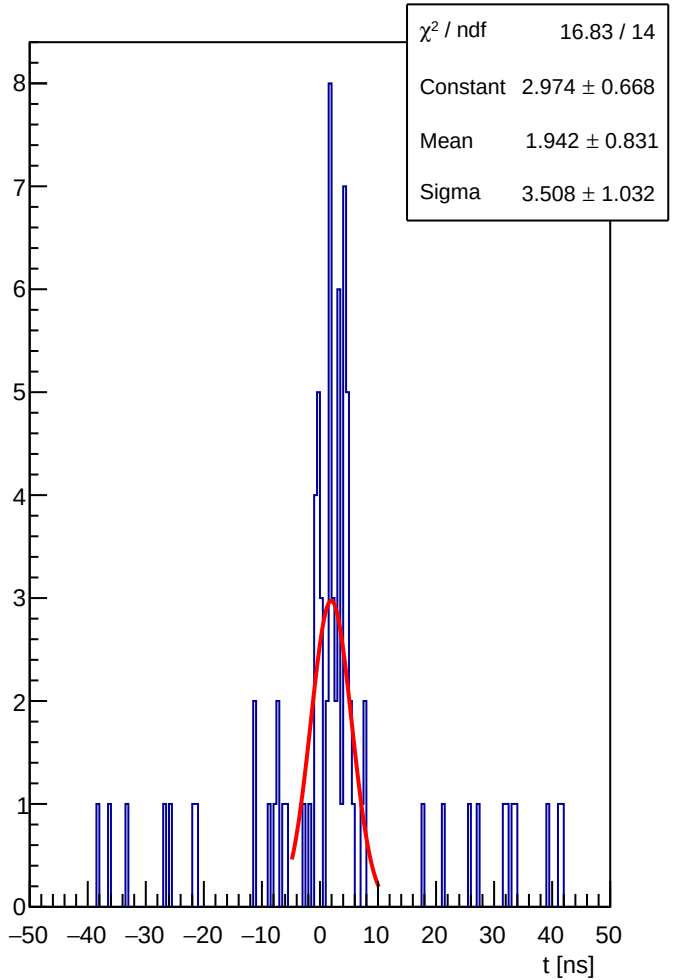

HCAL block 263 : t tw corr
χ² / ndf 23.66 / 27
Constant 10.54 ± 1.02
Mean 0.9893 ± 0.3304
Sigma 3.817 ± 0.327
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

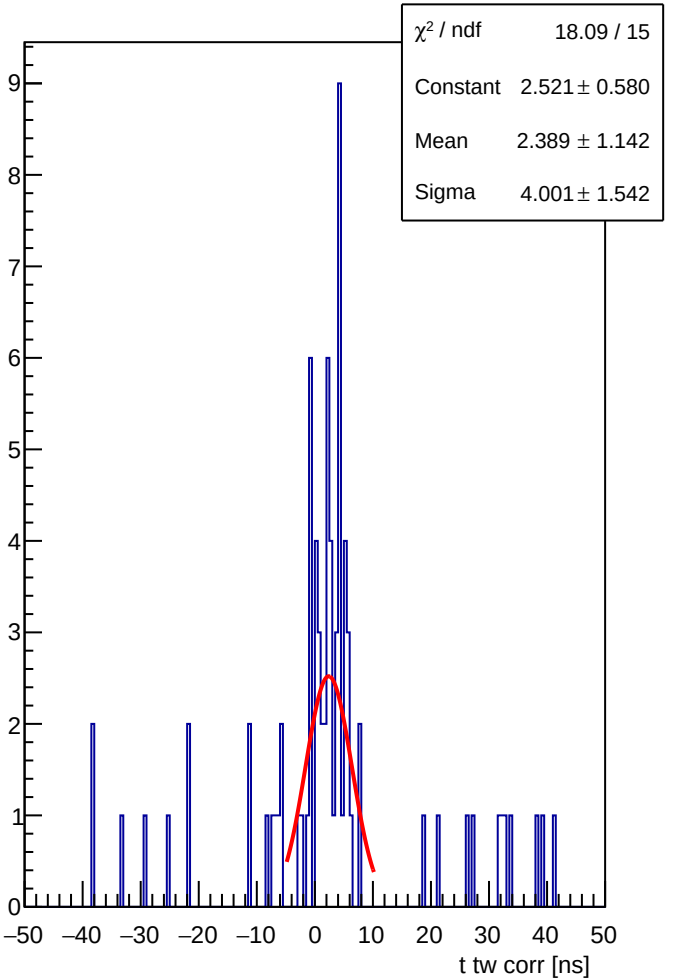

HCAL block 264 : t
χ² / ndf 30.48 / 26
Constant 3.027 ± 0.498
Mean −0.06424 ± 1.62000
Sigma 7.448 ± 3.088
t [ns]

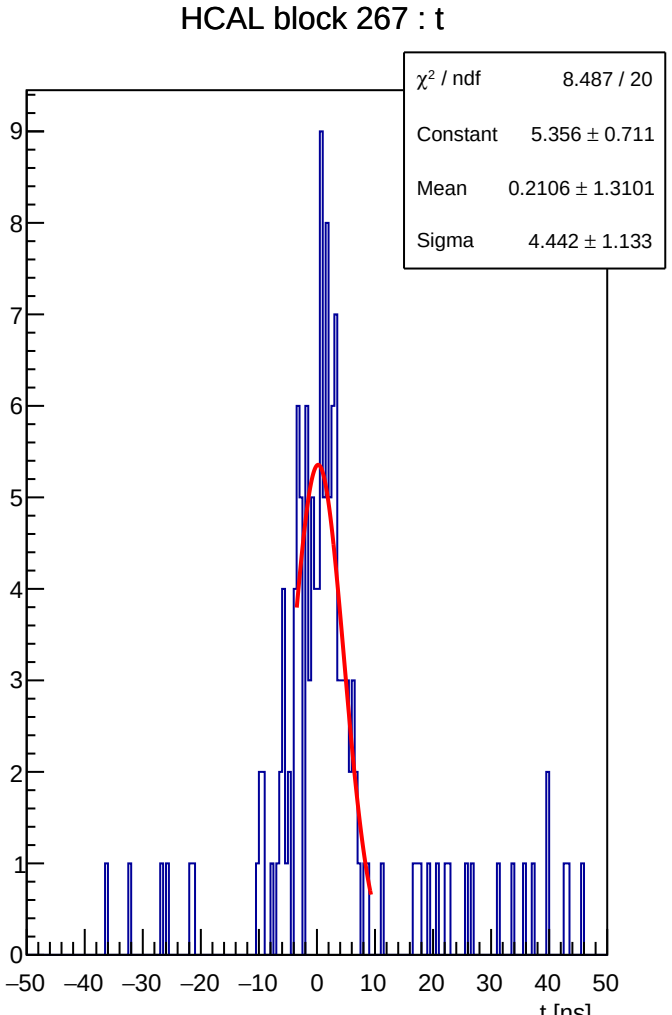

HCAL block 264 : t tw corr
χ² / ndf 21.37 / 24
Constant 4.264 ± 0.647
Mean −0.2569 ± 0.8337
Sigma 5.251 ± 1.074
t tw corr [ns]

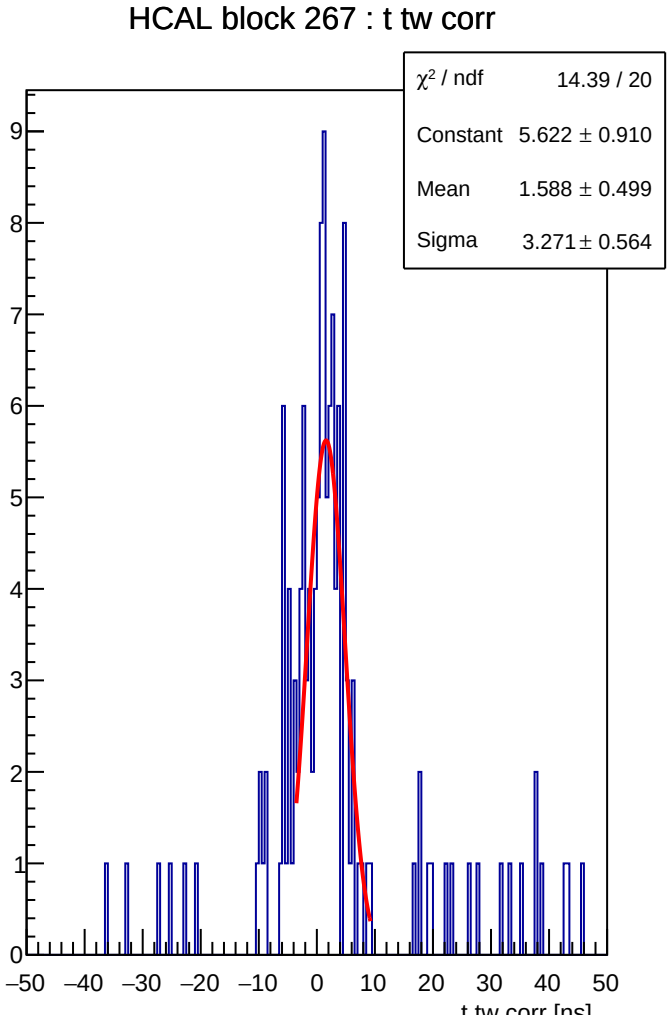

HCAL block 265 : t
χ² / ndf 19.7 / 17
Constant 2.873 ± 4.335
Mean 32.33 ± 51.20
Sigma 32.06 ± 26.15
t [ns]

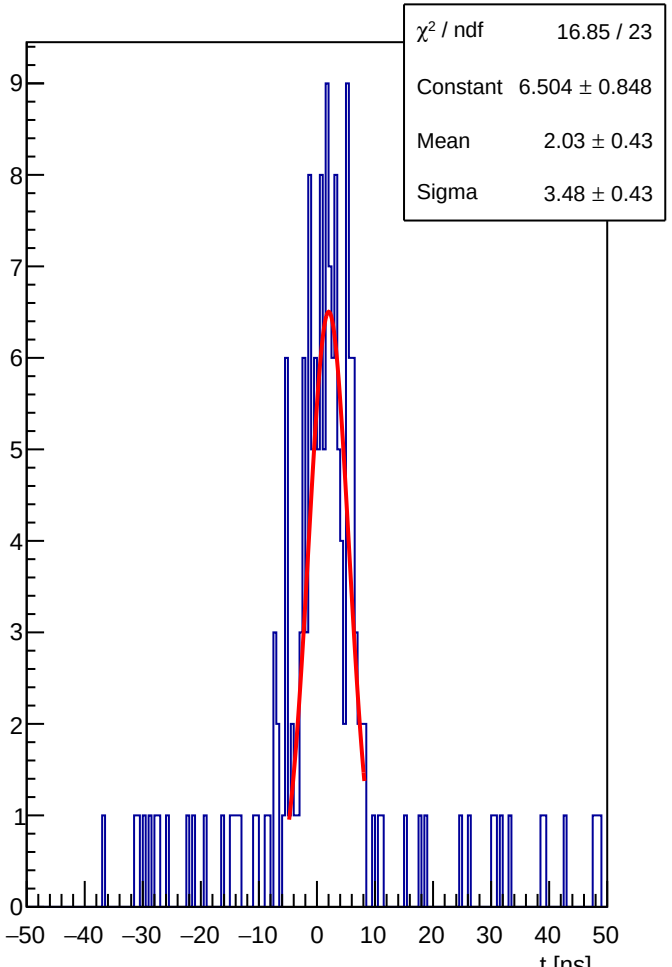

HCAL block 265 : t tw corr
χ² / ndf 14.77 / 19
Constant 3.88 ± 8.28
Mean −37.29 ± 57.77
Sigma 32.46 ± 29.59
t tw corr [ns]

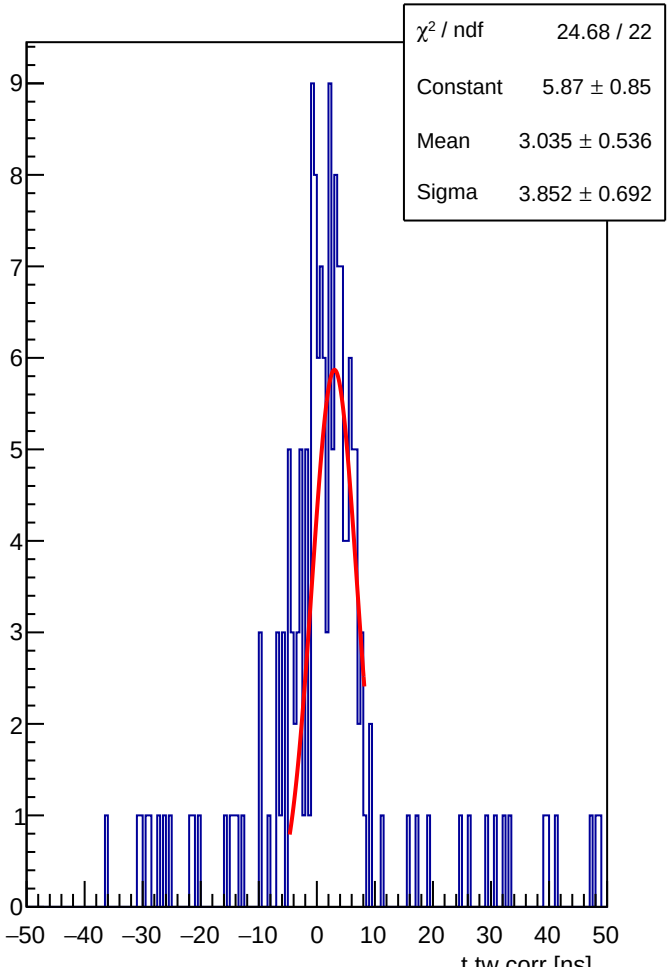

HCAL block 266 : t
χ² / ndf 16.83 / 14
Constant 2.974 ± 0.668
Mean 1.942 ± 0.831
Sigma 3.508 ± 1.032
t [ns]

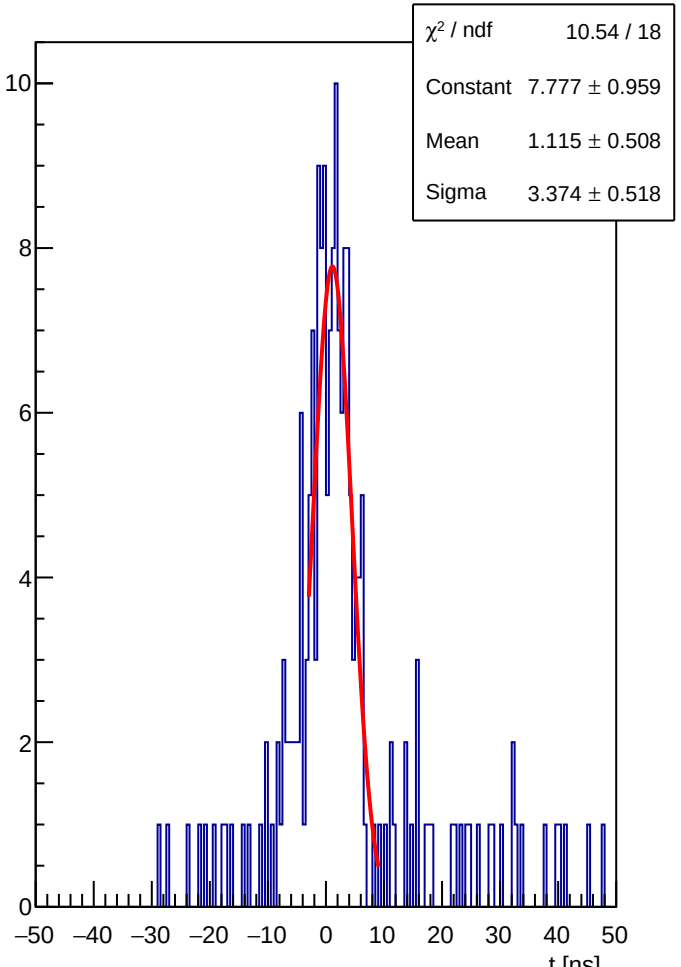

HCAL block 266 : t tw corr
χ² / ndf 18.09 / 15
Constant 2.521 ± 0.580
Mean 2.389 ± 1.142
Sigma 4.001 ± 1.542
t tw corr [ns]

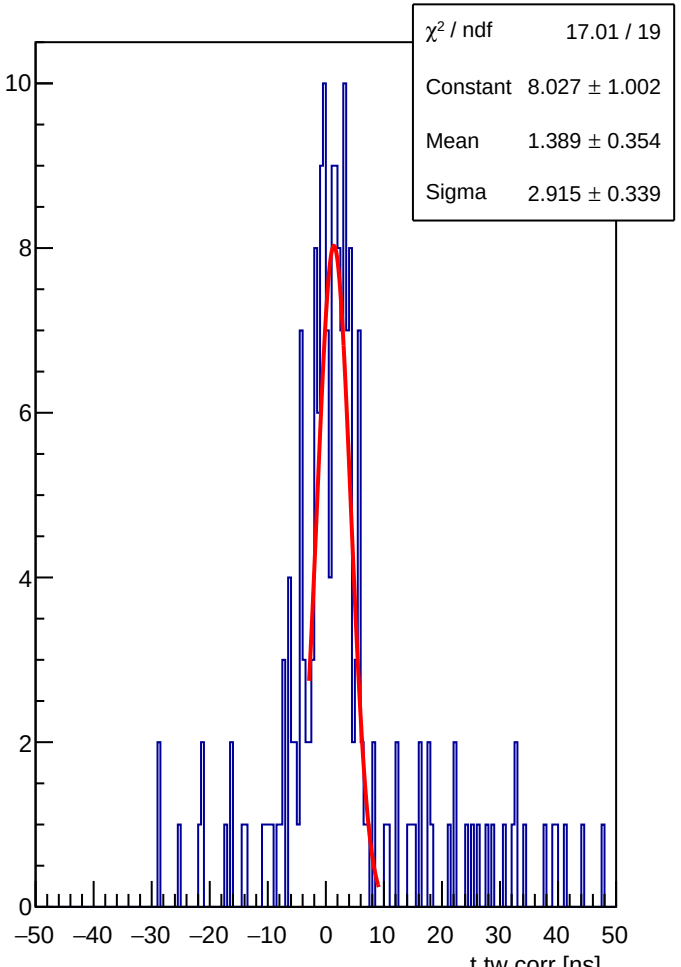

HCAL block 267 : t
χ² / ndf 8.487 / 20
Constant 5.356 ± 0.711
Mean 0.2106 ± 1.3101
Sigma 4.442 ± 1.133
t [ns]

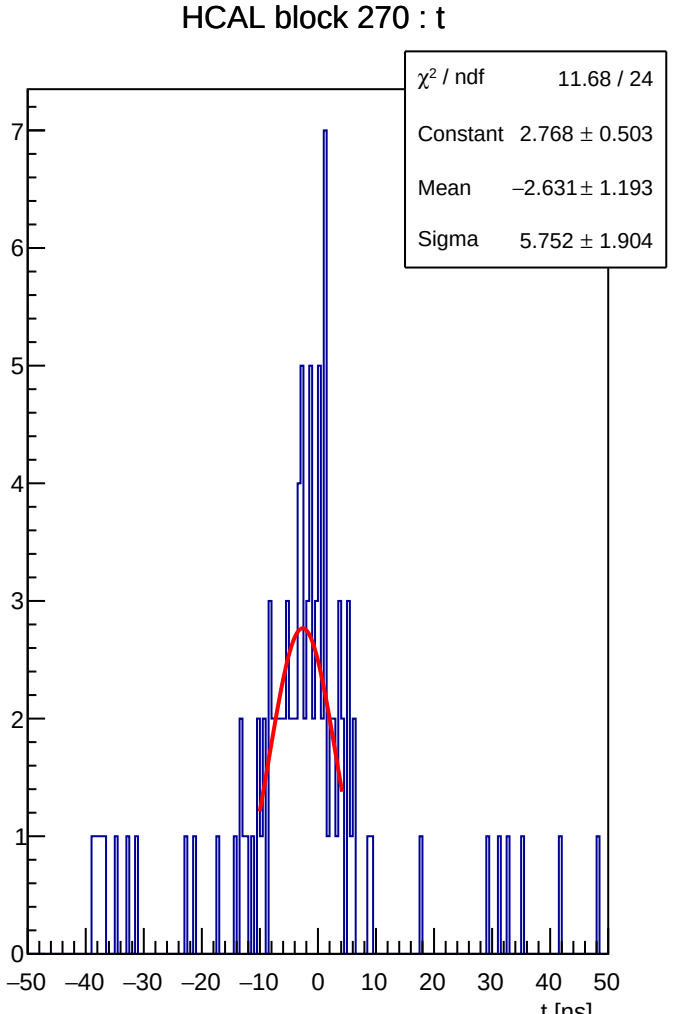

HCAL block 267 : t tw corr
χ² / ndf 14.39 / 20
Constant 5.622 ± 0.910
Mean 1.588 ± 0.499
Sigma 3.271 ± 0.564
t tw corr [ns]

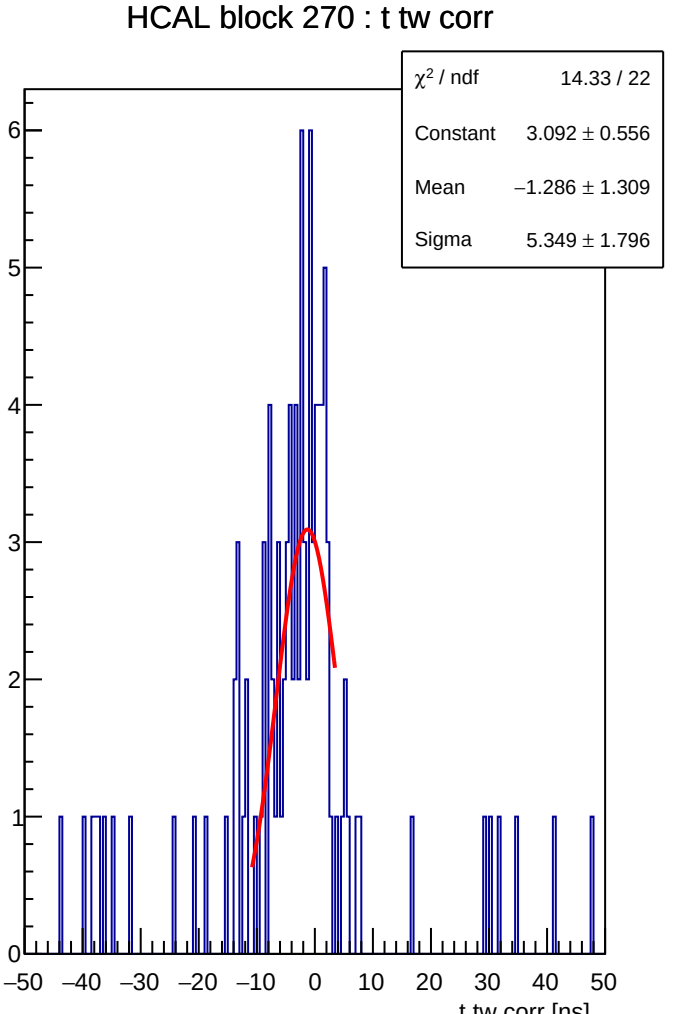

HCAL block 268 : t
χ² / ndf 16.85 / 23
Constant 6.504 ± 0.848
Mean 2.03 ± 0.43
Sigma 3.48 ± 0.43
t [ns]

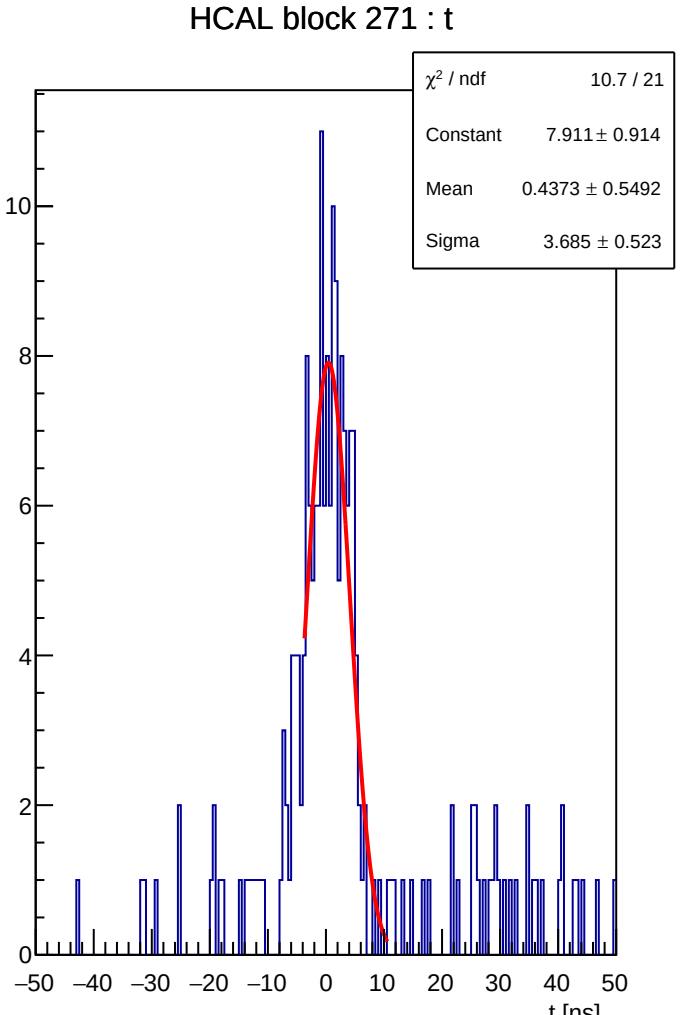

HCAL block 268 : t tw corr
χ² / ndf 24.68 / 22
Constant 5.87 ± 0.85
Mean 3.035 ± 0.536
Sigma 3.852 ± 0.692
t tw corr [ns]

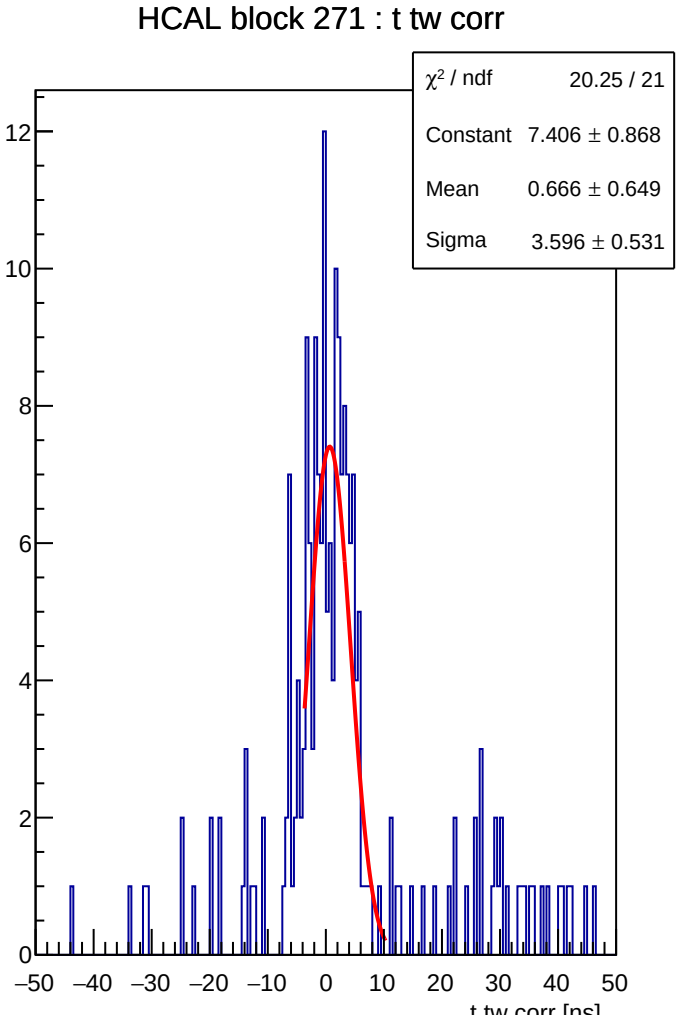

HCAL block 269 : t
χ² / ndf 10.54 / 18
Constant 7.777 ± 0.959
Mean 1.115 ± 0.508
Sigma 3.374 ± 0.518
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

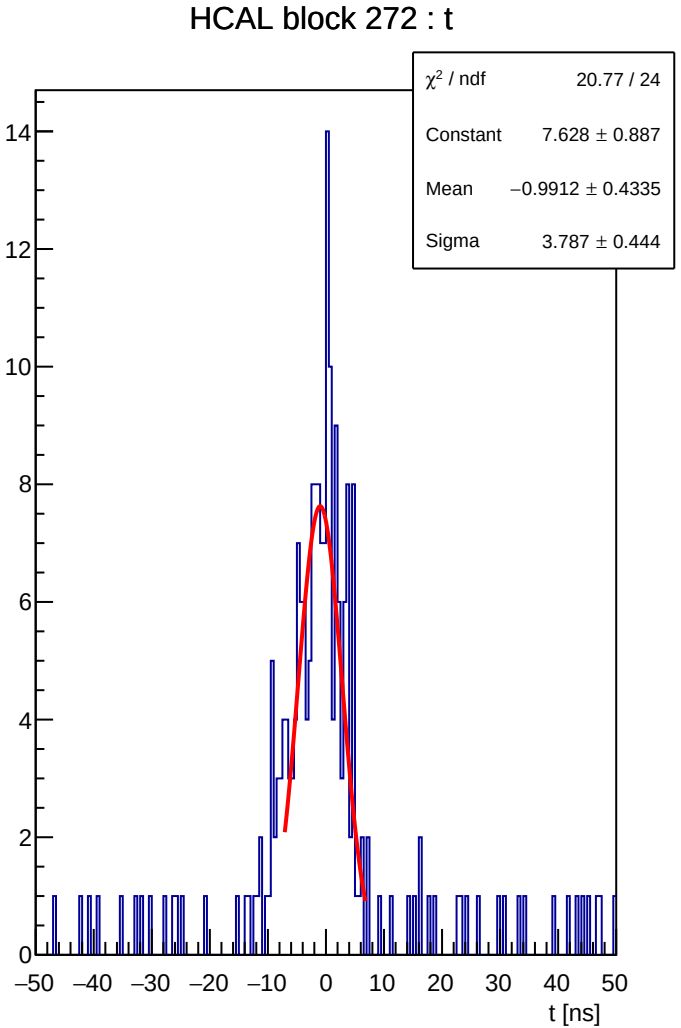

HCAL block 269 : t tw corr
χ² / ndf 17.01 / 19
Constant 8.027 ± 1.002
Mean 1.389 ± 0.354
Sigma 2.915 ± 0.339
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

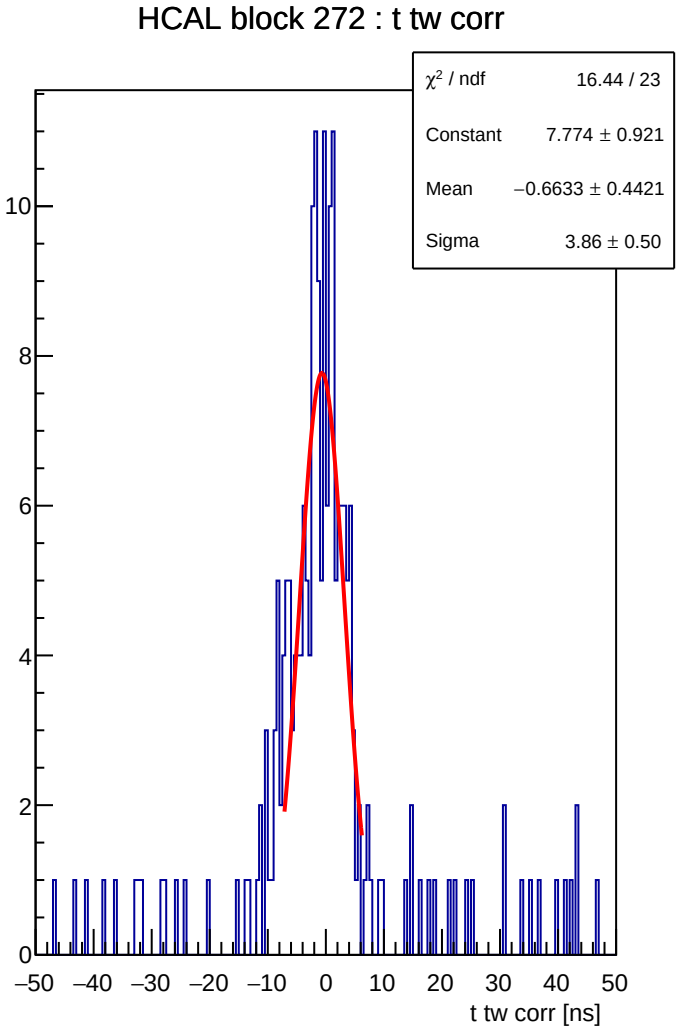

HCAL block 270 : t
χ² / ndf 11.68 / 24
Constant 2.768 ± 0.503
Mean −2.631 ± 1.193
Sigma 5.752 ± 1.904
t [ns]

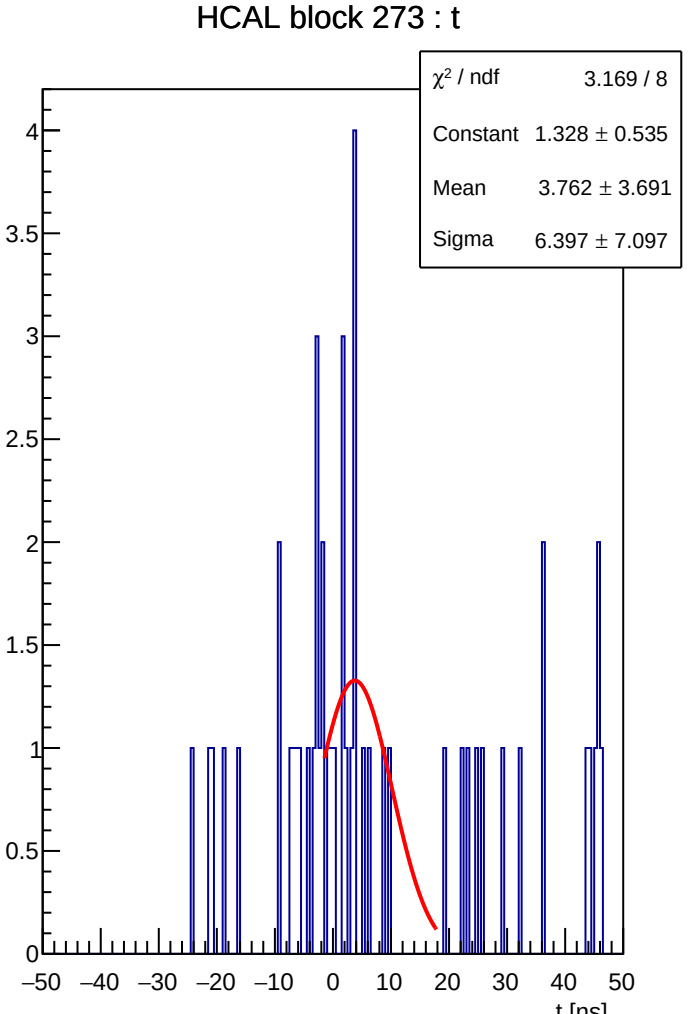

HCAL block 270 : t tw corr
χ² / ndf 14.33 / 22
Constant 3.092 ± 0.556
Mean −1.286 ± 1.309
Sigma 5.349 ± 1.796
t tw corr [ns]

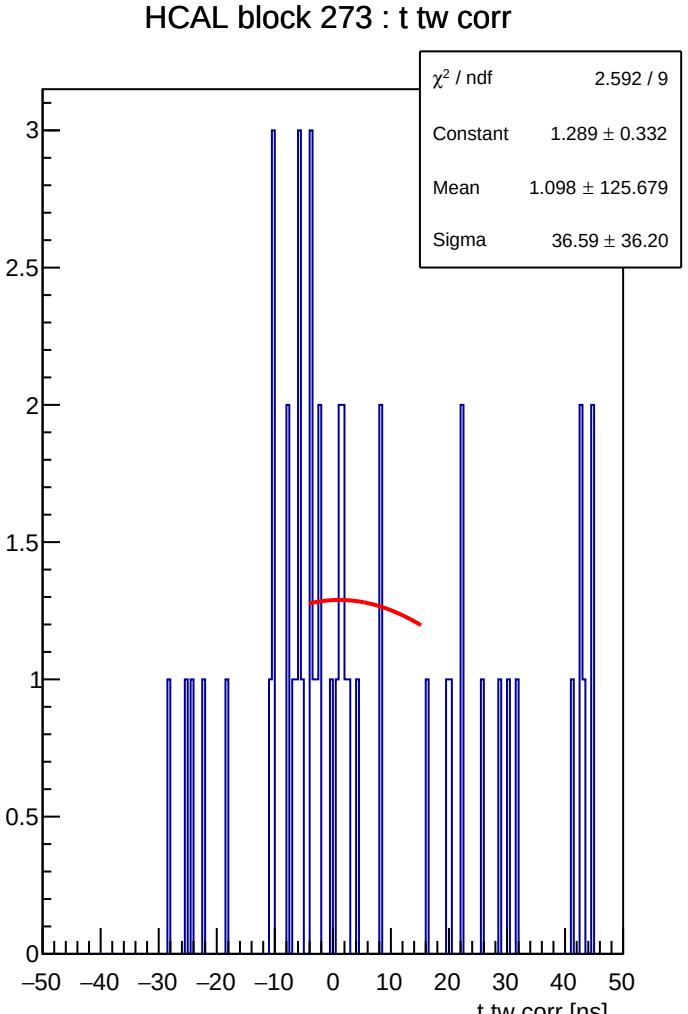

HCAL block 271 : t
χ² / ndf 10.7 / 21
Constant 7.911 ± 0.914
Mean 0.4373 ± 0.5492
Sigma 3.685 ± 0.523
t [ns]

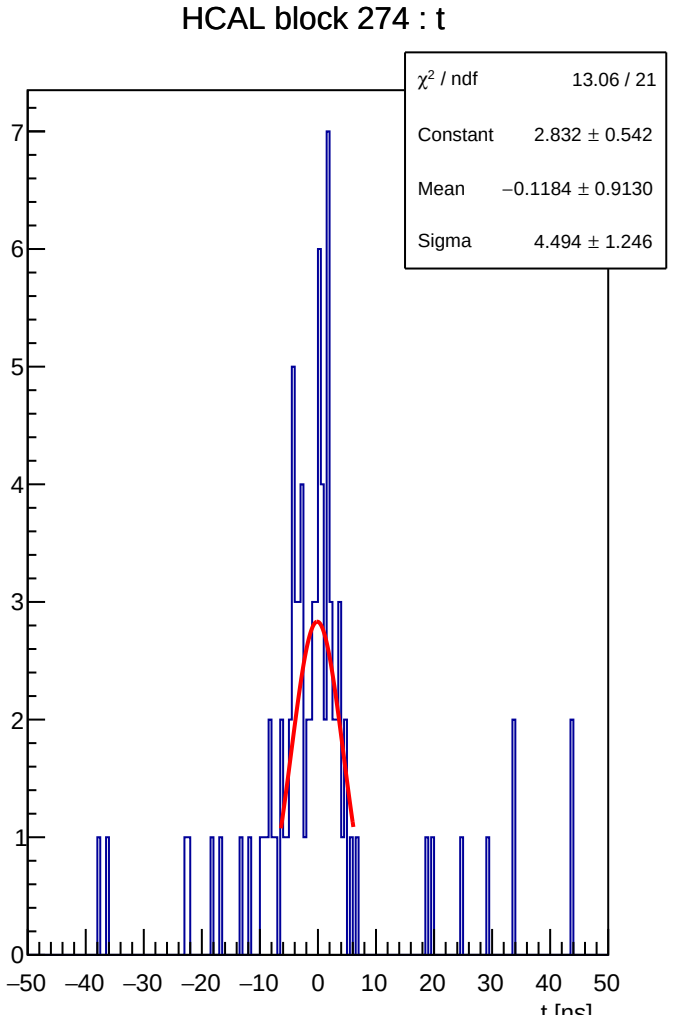

HCAL block 271 : t tw corr
χ² / ndf 20.25 / 21
Constant 7.406 ± 0.868
Mean 0.666 ± 0.649
Sigma 3.596 ± 0.531
t tw corr [ns]

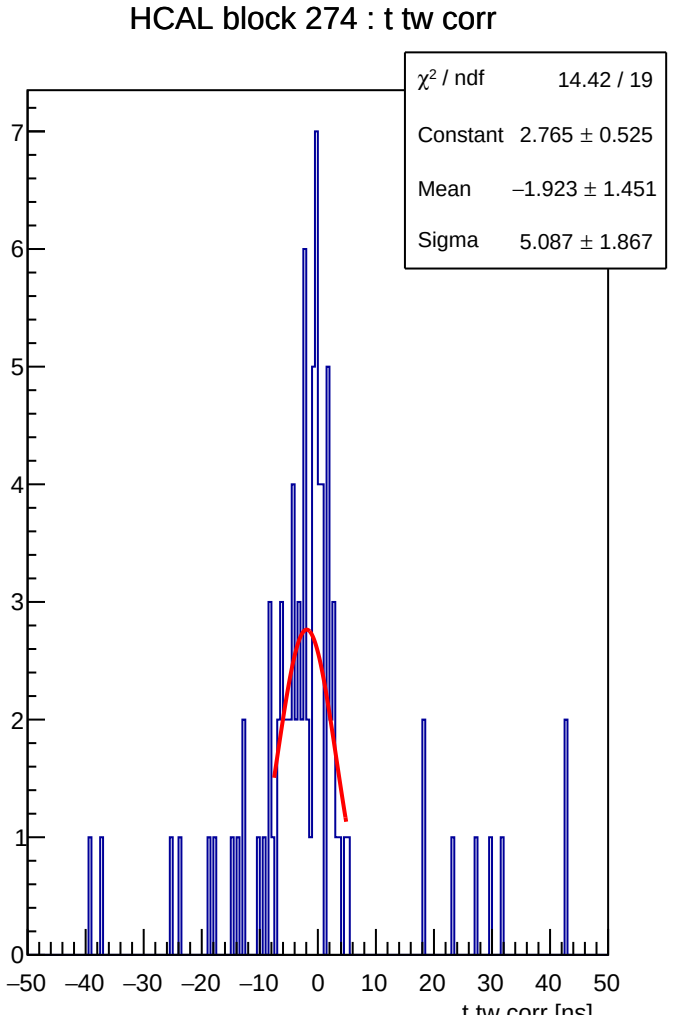

HCAL block 272 : t
χ² / ndf 20.77 / 24
Constant 7.628 ± 0.887
Mean −0.9912 ± 0.4335
Sigma 3.787 ± 0.444
t [ns]

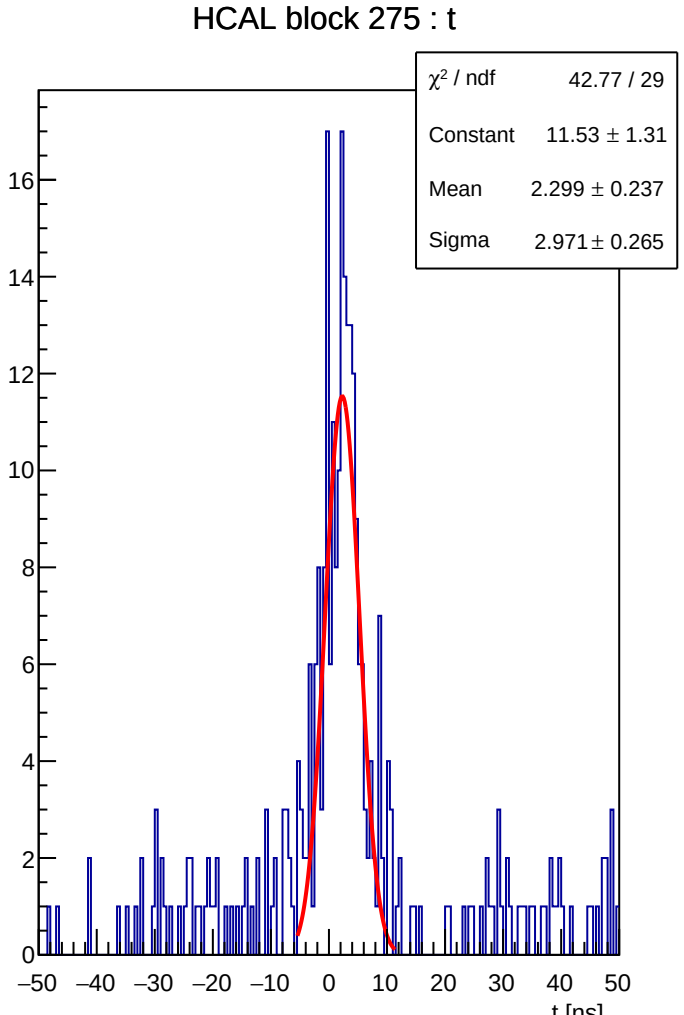

HCAL block 272 : t tw corr
χ² / ndf 16.44 / 23
Constant 7.774 ± 0.921
Mean −0.6633 ± 0.4421
Sigma 3.86 ± 0.50
t tw corr [ns]

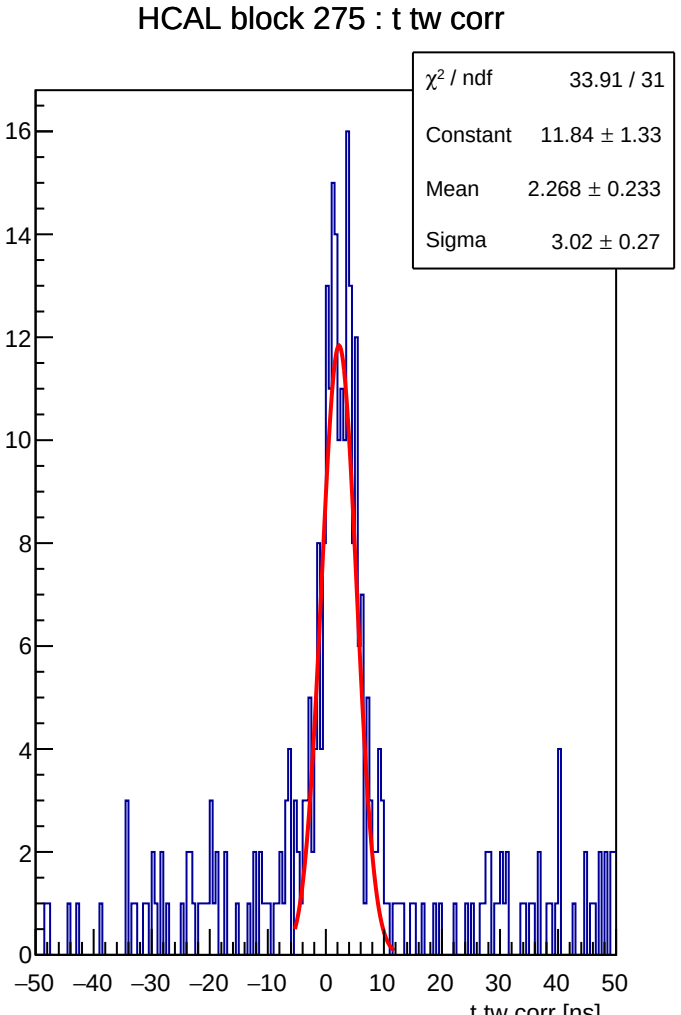

HCAL block 273 : t
χ² / ndf 3.169 / 8
Constant 1.328 ± 0.535
Mean 3.762 ± 3.691
Sigma 6.397 ± 7.097
t [ns]

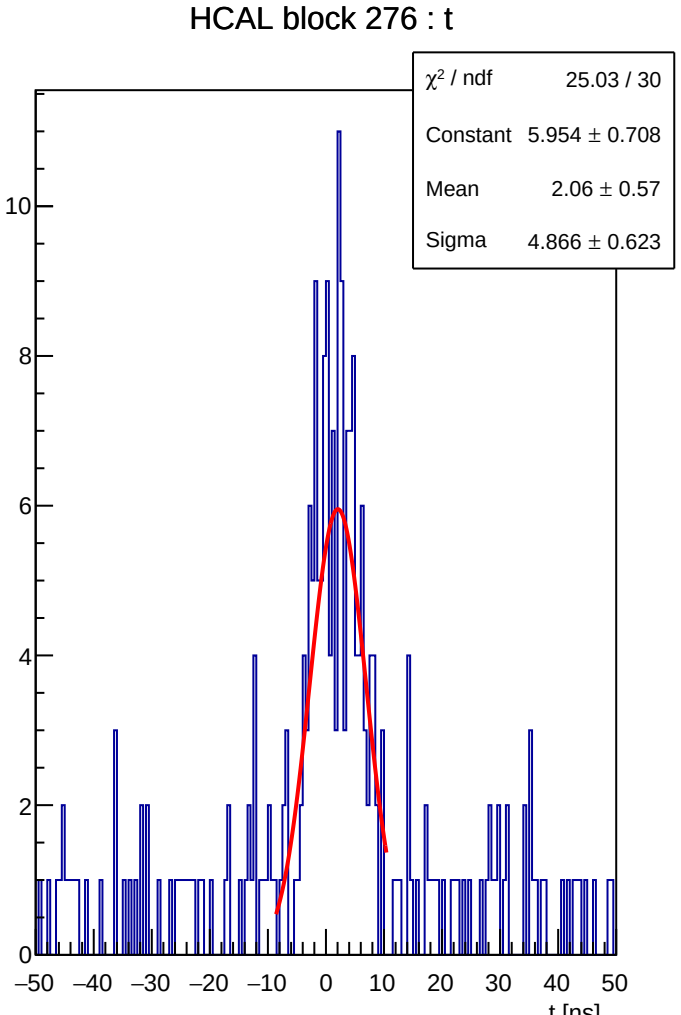

HCAL block 273 : t tw corr
χ² / ndf 2.592 / 9
Constant 1.289 ± 0.332
Mean 1.098 ± 125.679
Sigma 36.59 ± 36.20
t tw corr [ns]

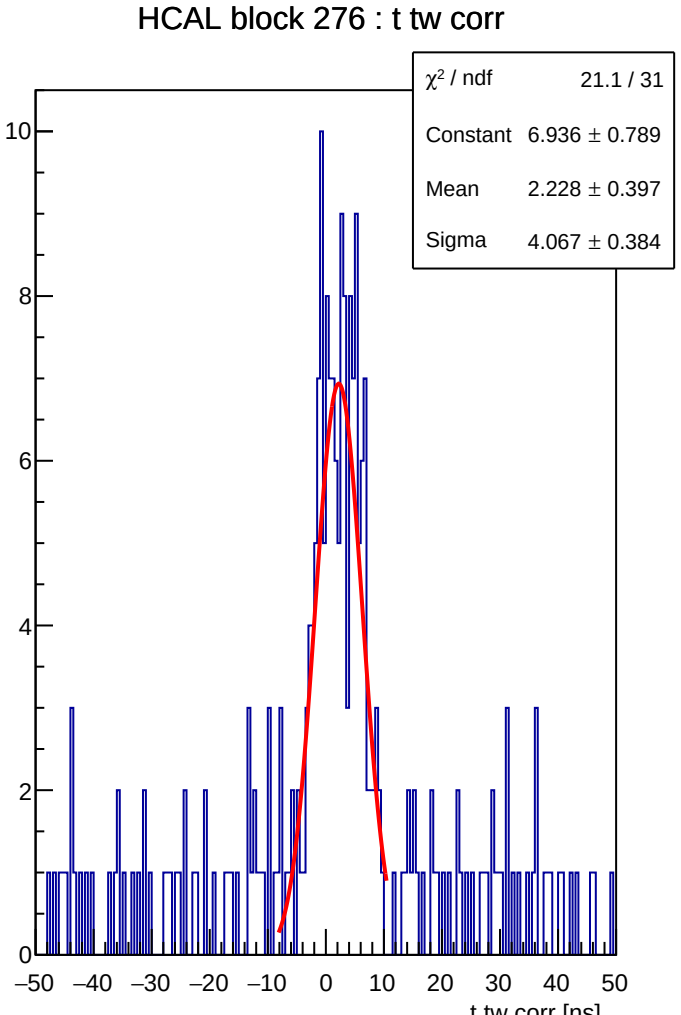

HCAL block 274 : t
χ² / ndf 13.06 / 21
Constant 2.832 ± 0.542
Mean −0.1184 ± 0.9130
Sigma 4.494 ± 1.246
t [ns]

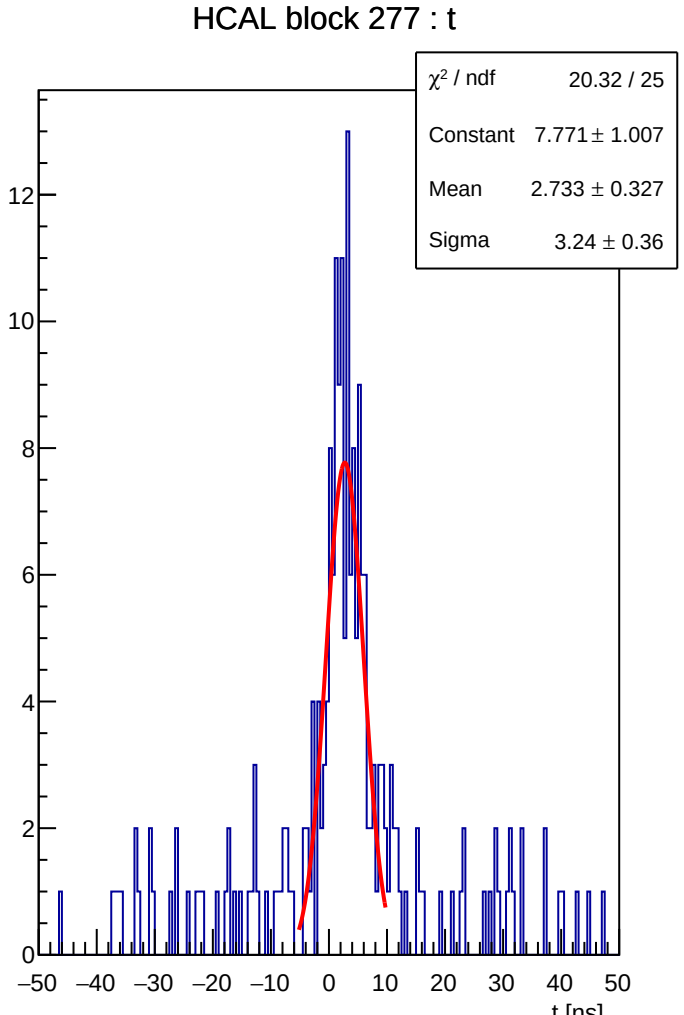

HCAL block 274 : t tw corr
χ² / ndf 14.42 / 19
Constant 2.765 ± 0.525
Mean −1.923 ± 1.451
Sigma 5.087 ± 1.867
t tw corr [ns]

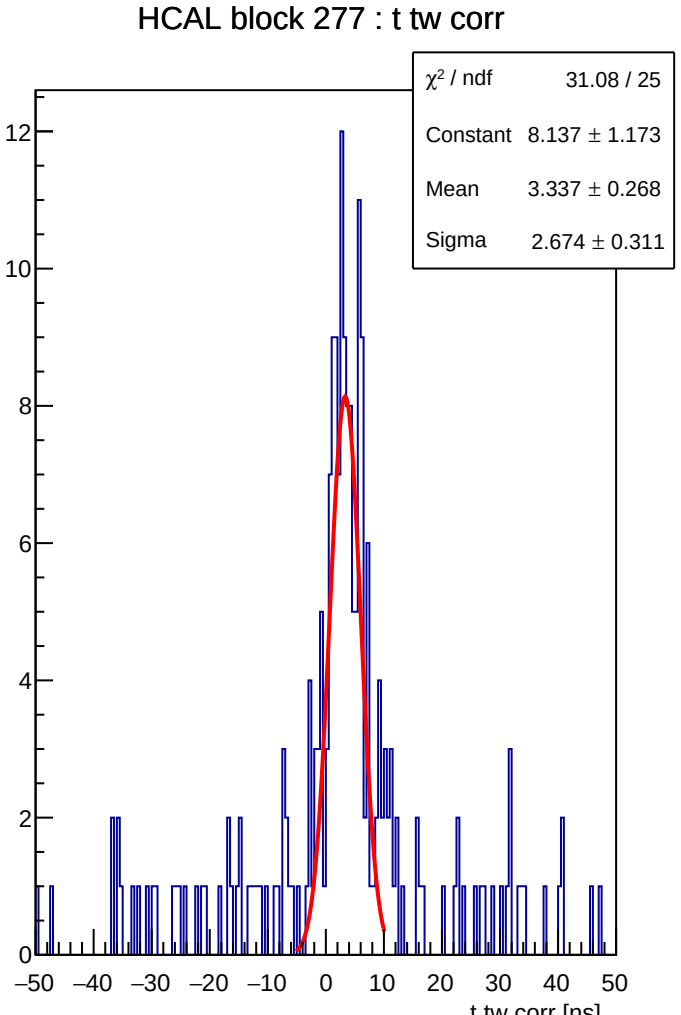

HCAL block 275 : t
χ² / ndf 42.77 / 29
Constant 11.53 ± 1.31
Mean 2.299 ± 0.237
Sigma 2.971 ± 0.265
t [ns]

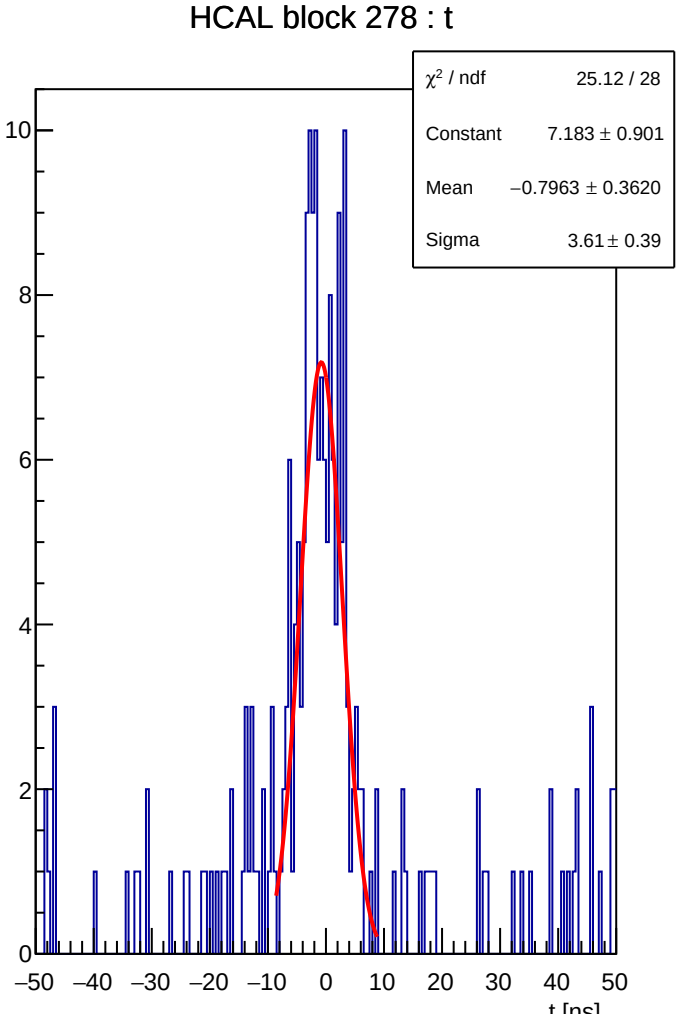

HCAL block 275 : t tw corr
χ² / ndf 33.91 / 31
Constant 11.84 ± 1.33
Mean 2.268 ± 0.233
Sigma 3.02 ± 0.27
t tw corr [ns]

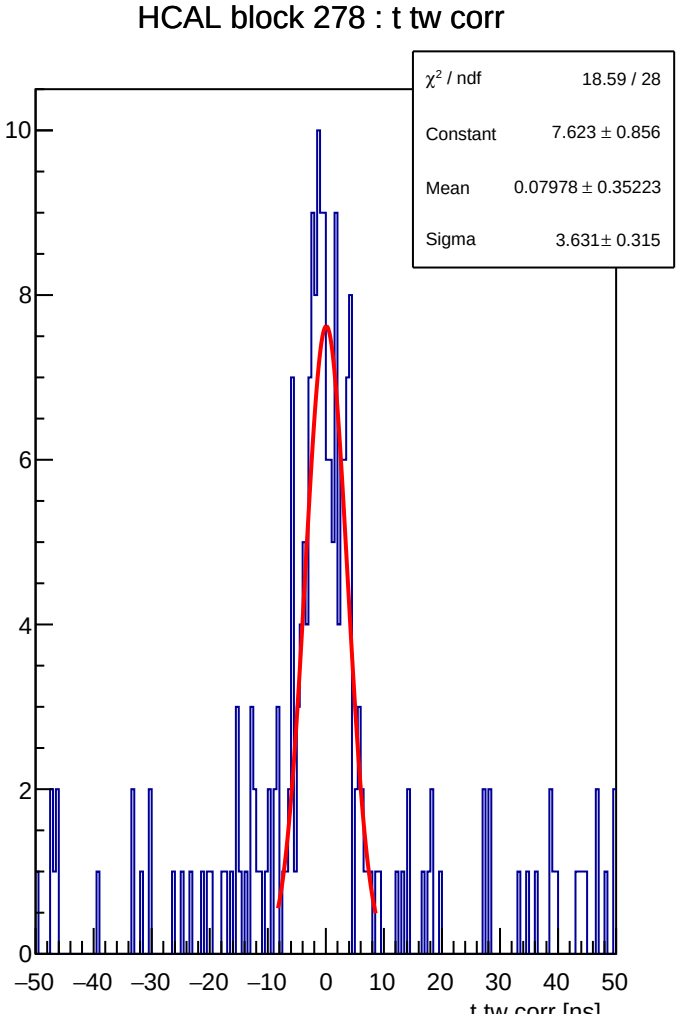

HCAL block 276 : t
χ² / ndf 25.03 / 30
Constant 5.954 ± 0.708
Mean 2.06 ± 0.57
Sigma 4.866 ± 0.623
t [ns]

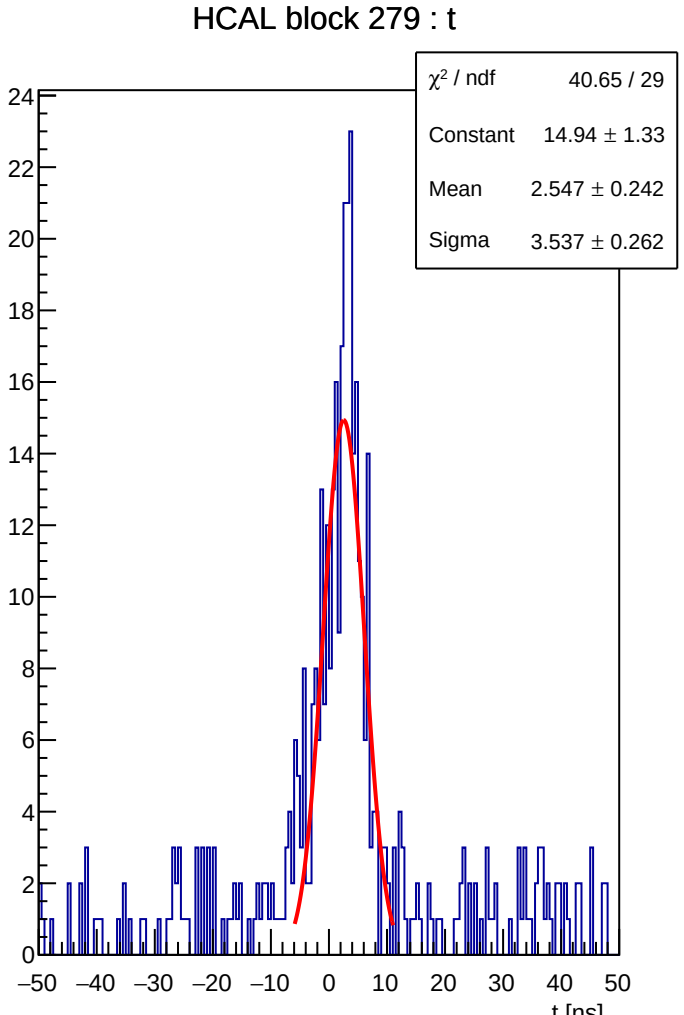

HCAL block 276 : t tw corr
χ² / ndf 21.1 / 31
Constant 6.936 ± 0.789
Mean 2.228 ± 0.397
Sigma 4.067 ± 0.384
t tw corr [ns]

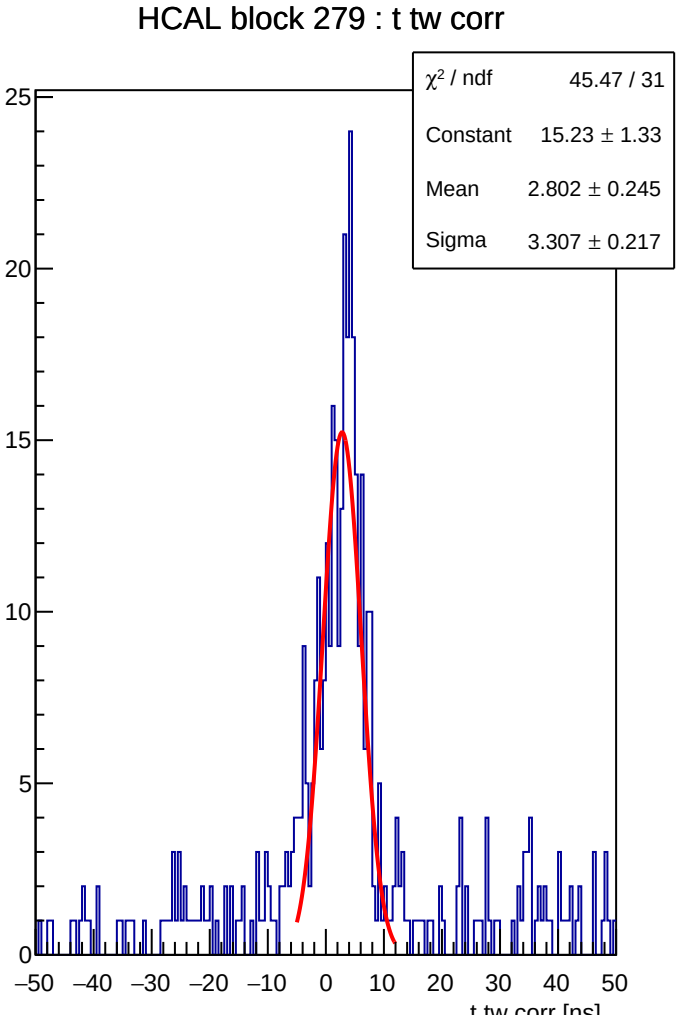

HCAL block 277 : t
χ² / ndf 20.32 / 25
Constant 7.771 ± 1.007
Mean 2.733 ± 0.327
Sigma 3.24 ± 0.36
t [ns]

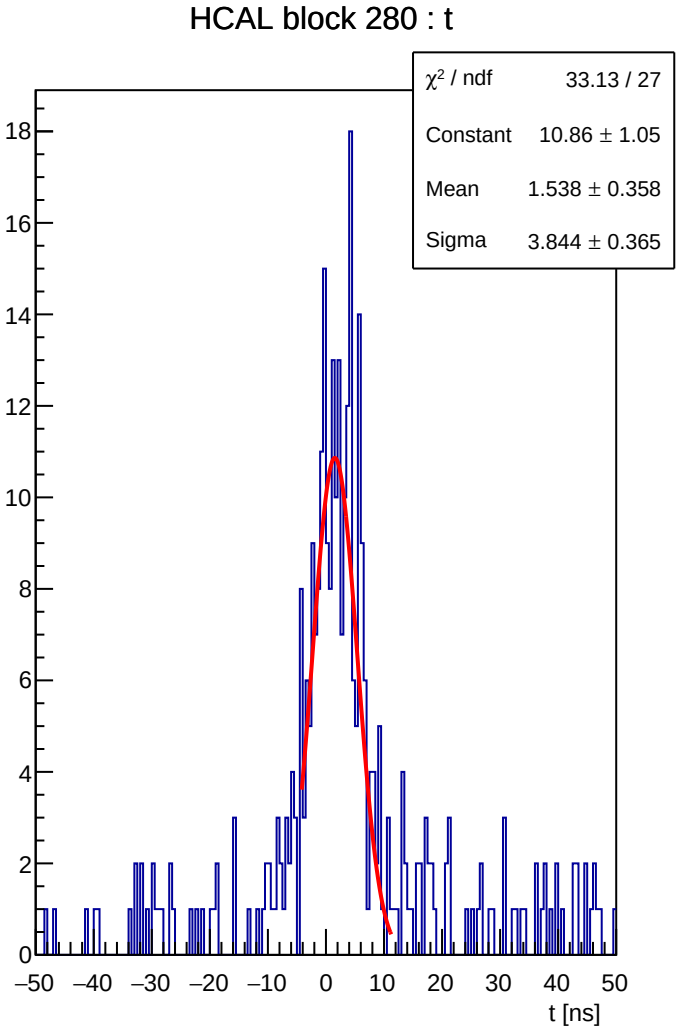

HCAL block 277 : t tw corr
χ² / ndf 31.08 / 25
Constant 8.137 ± 1.173
Mean 3.337 ± 0.268
Sigma 2.674 ± 0.311
t tw corr [ns]

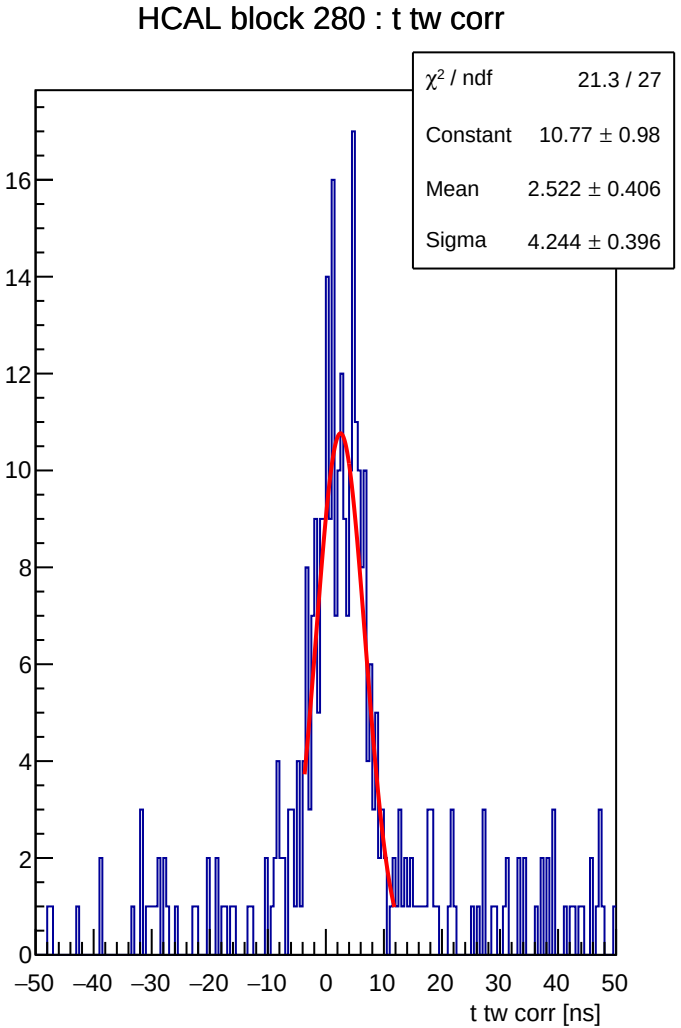

HCAL block 278 : t
χ² / ndf 25.12 / 28
Constant 7.183 ± 0.901
Mean −0.7963 ± 0.3620
Sigma 3.61 ± 0.39
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t [ns]

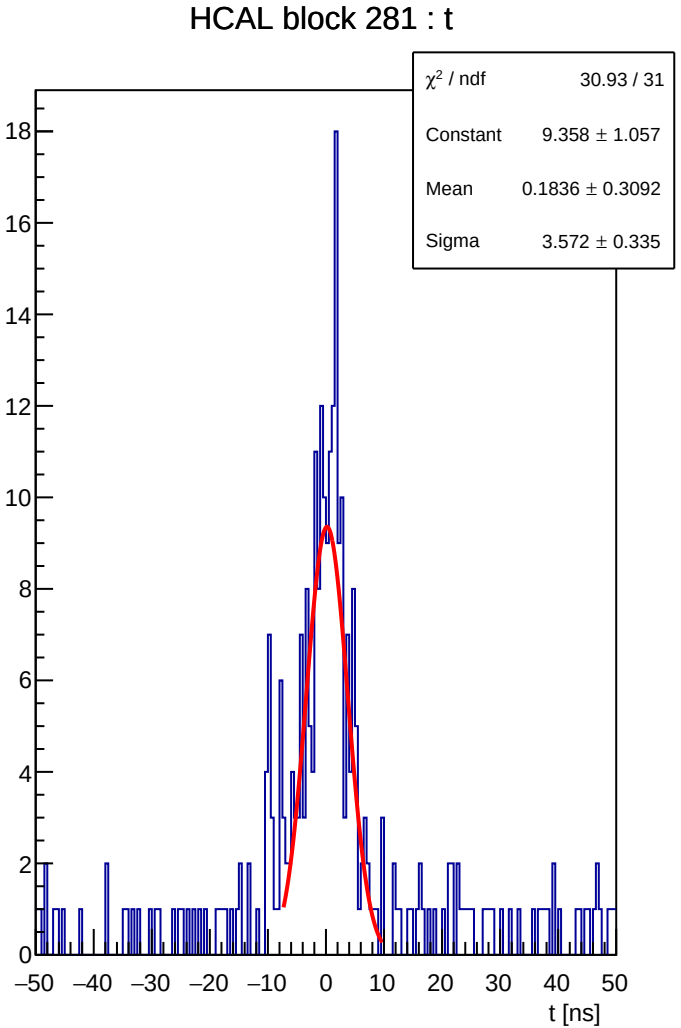

HCAL block 278 : t tw corr
χ² / ndf 18.59 / 28
Constant 7.623 ± 0.856
Mean 0.07978 ± 0.35223
Sigma 3.631 ± 0.315
10
8
6
4
2
0
−50 −40 −30 −20 −10 0 10 20 30 40 50
t tw corr [ns]

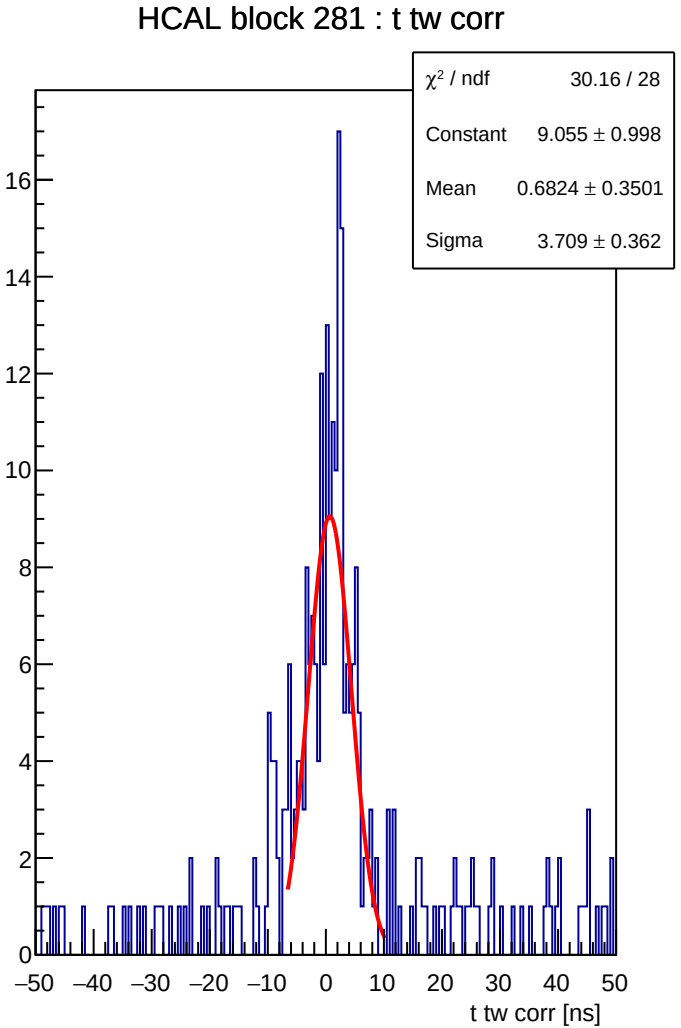

HCAL block 279 : t
χ² / ndf 40.65 / 29
Constant 14.94 ± 1.33
Mean 2.547 ± 0.242
Sigma 3.537 ± 0.262
t [ns]

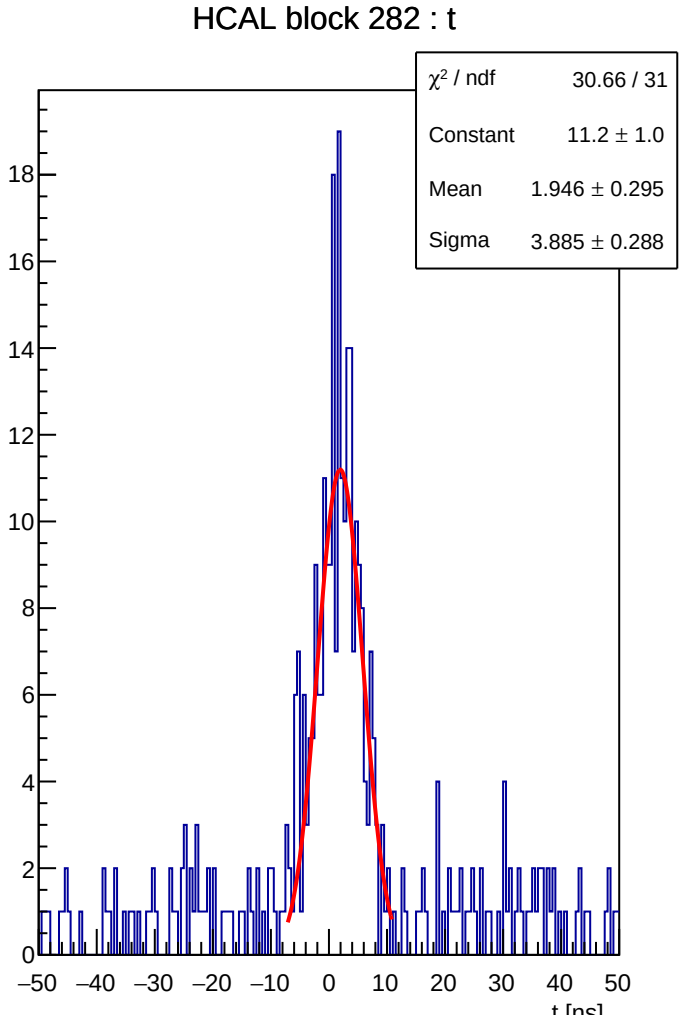

HCAL block 279 : t tw corr
χ² / ndf 45.47 / 31
Constant 15.23 ± 1.33
Mean 2.802 ± 0.245
Sigma 3.307 ± 0.217
t tw corr [ns]

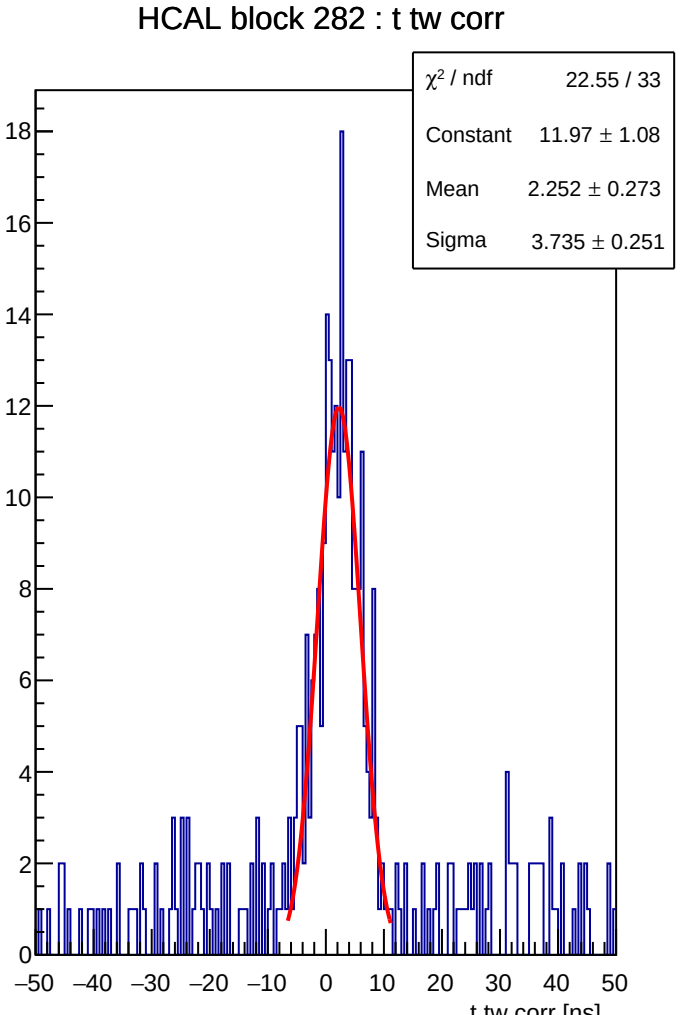

HCAL block 280 : t
χ² / ndf 33.13 / 27
Constant 10.86 ± 1.05
Mean 1.538 ± 0.358
Sigma 3.844 ± 0.365
t [ns]

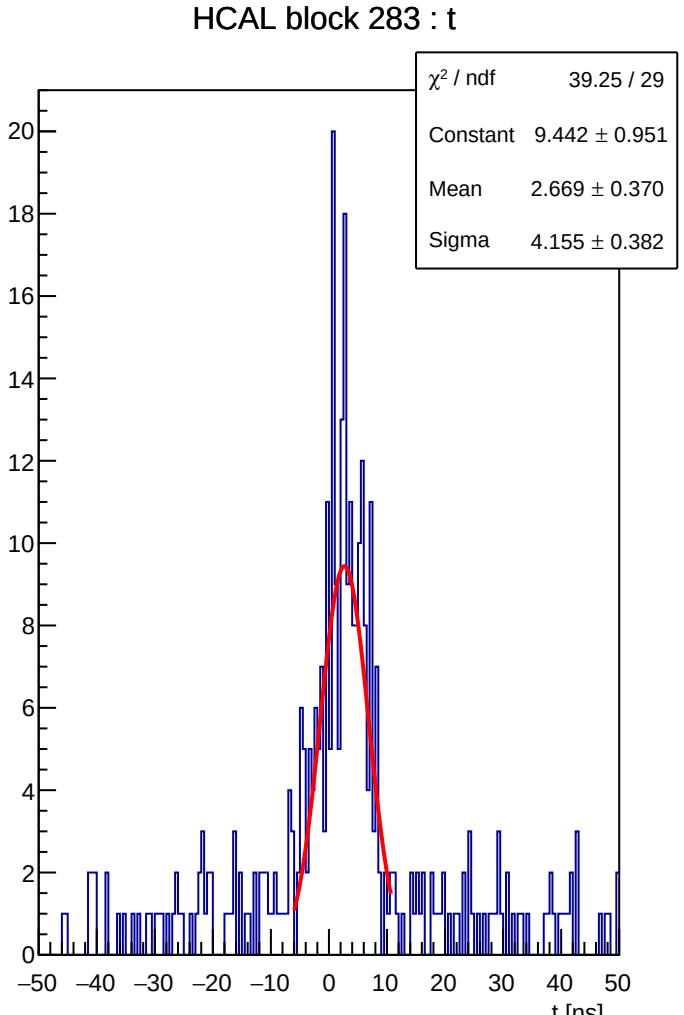

HCAL block 280 : t tw corr
χ² / ndf 21.3 / 27
Constant 10.77 ± 0.98
Mean 2.522 ± 0.406
Sigma 4.244 ± 0.396
t tw corr [ns]

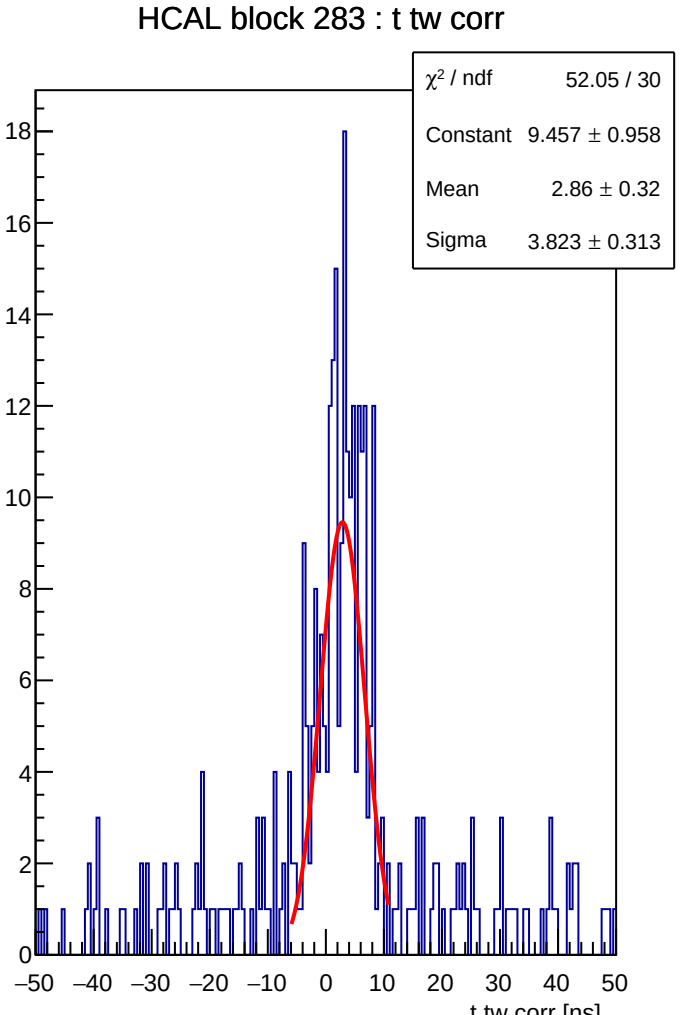

HCAL block 281 : t
χ² / ndf 30.93 / 31
Constant 9.358 ± 1.057
Mean 0.1836 ± 0.3092
Sigma 3.572 ± 0.335
18
16
14
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t [ns]

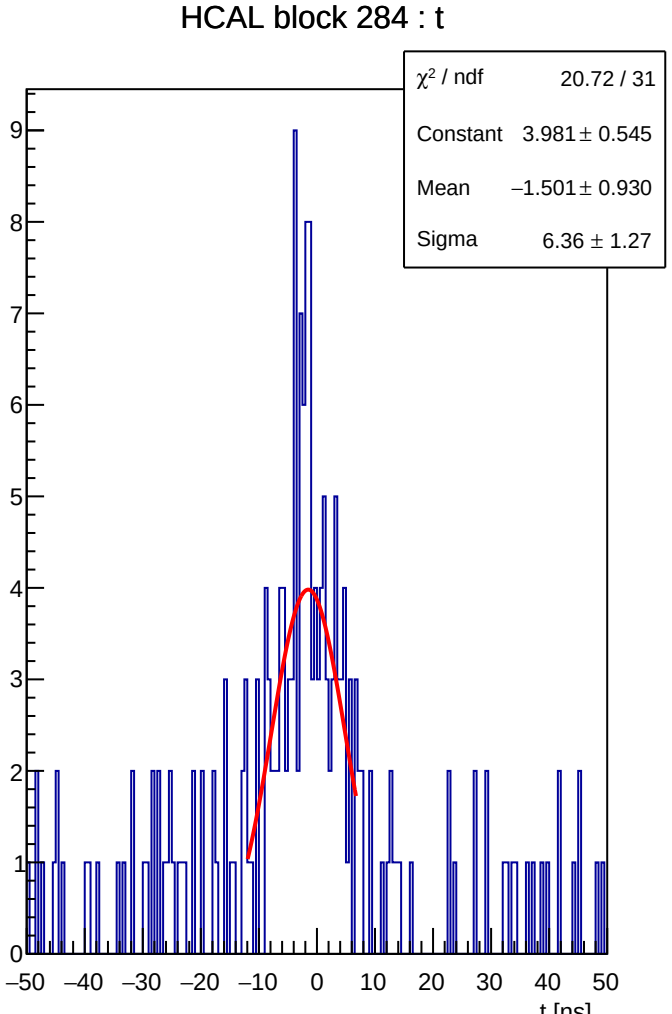

HCAL block 281 : t tw corr
χ² / ndf 30.16 / 28
Constant 9.055 ± 0.998
Mean 0.6824 ± 0.3501
Sigma 3.709 ± 0.362
16
14
12
10
8
6
4
2
0
–50 –40 –30 –20 –10 0 10 20 30 40 50
t tw corr [ns]

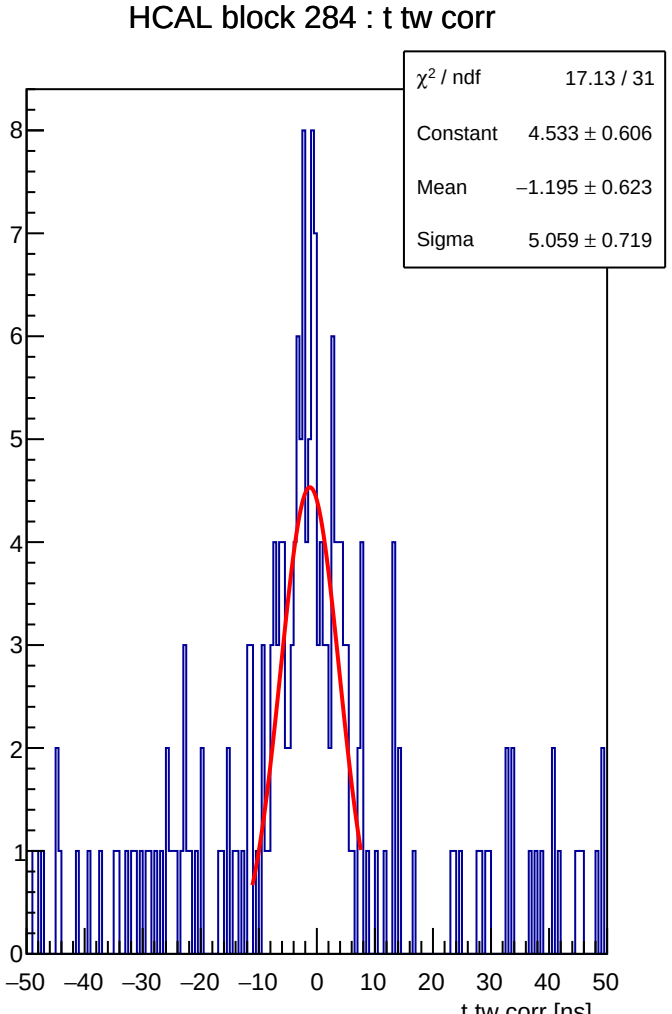

HCAL block 282 : t
χ² / ndf 30.66 / 31
Constant 11.2 ± 1.0
Mean 1.946 ± 0.295
Sigma 3.885 ± 0.288
t [ns]

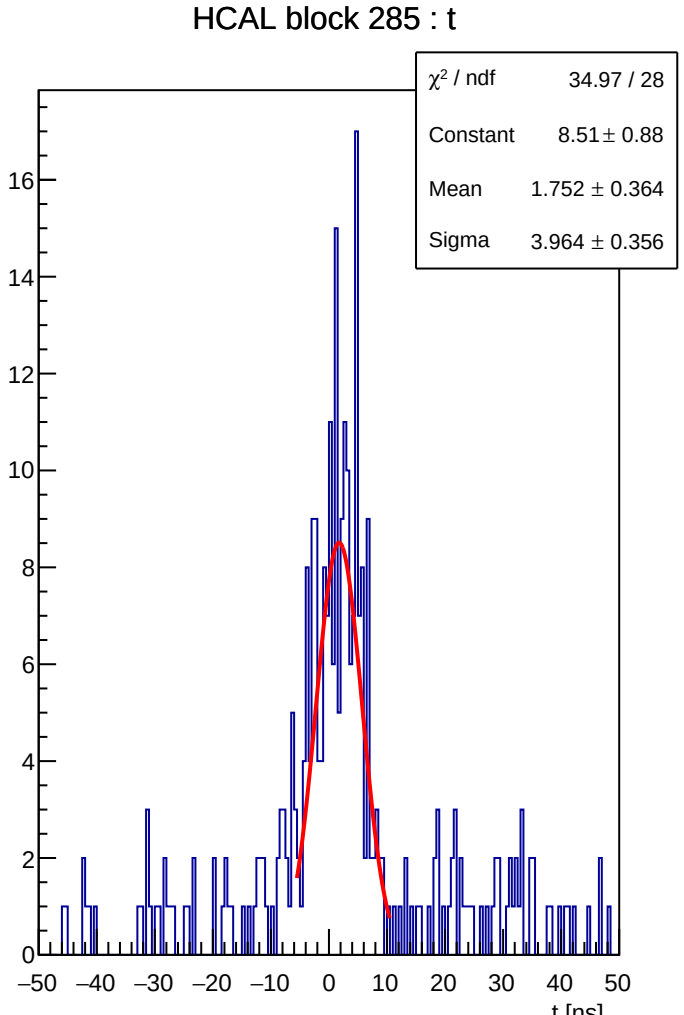

HCAL block 282 : t tw corr
χ² / ndf 22.55 / 33
Constant 11.97 ± 1.08
Mean 2.252 ± 0.273
Sigma 3.735 ± 0.251
t tw corr [ns]

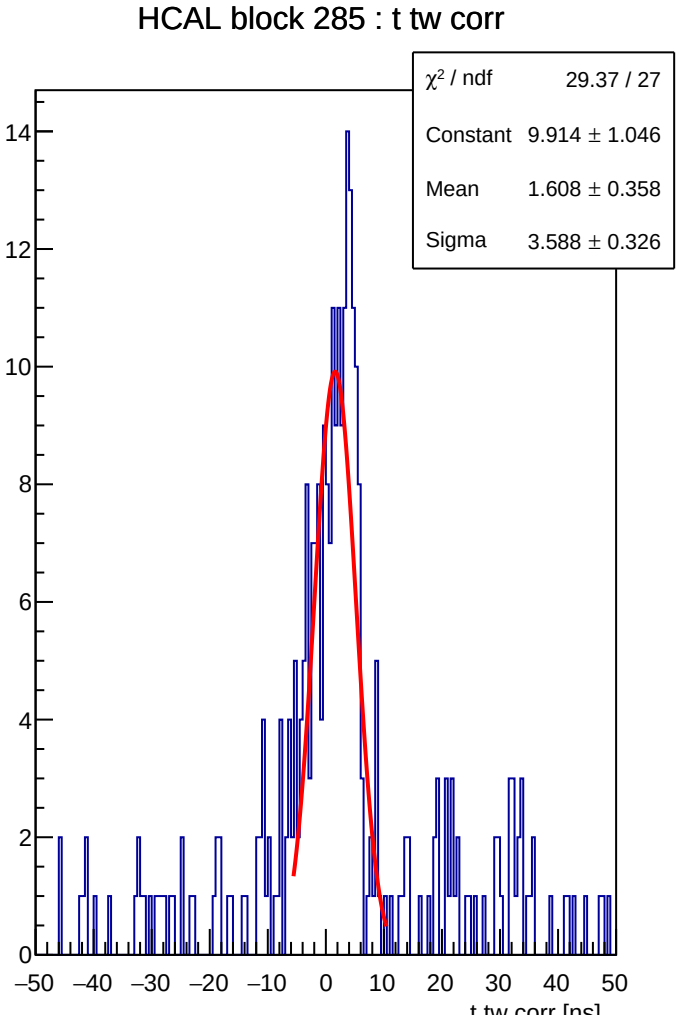

HCAL block 283 : t
χ² / ndf 39.25 / 29
Constant 9.442 ± 0.951
Mean 2.669 ± 0.370
Sigma 4.155 ± 0.382
t [ns]

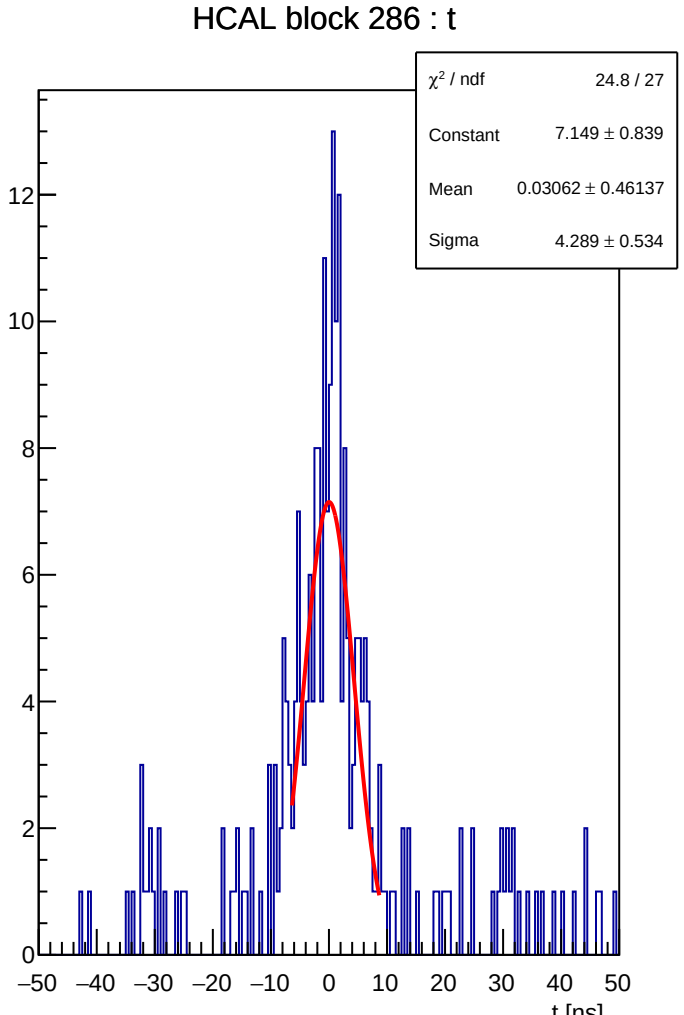

HCAL block 283 : t tw corr
χ² / ndf 52.05 / 30
Constant 9.457 ± 0.958
Mean 2.86 ± 0.32
Sigma 3.823 ± 0.313
t tw corr [ns]

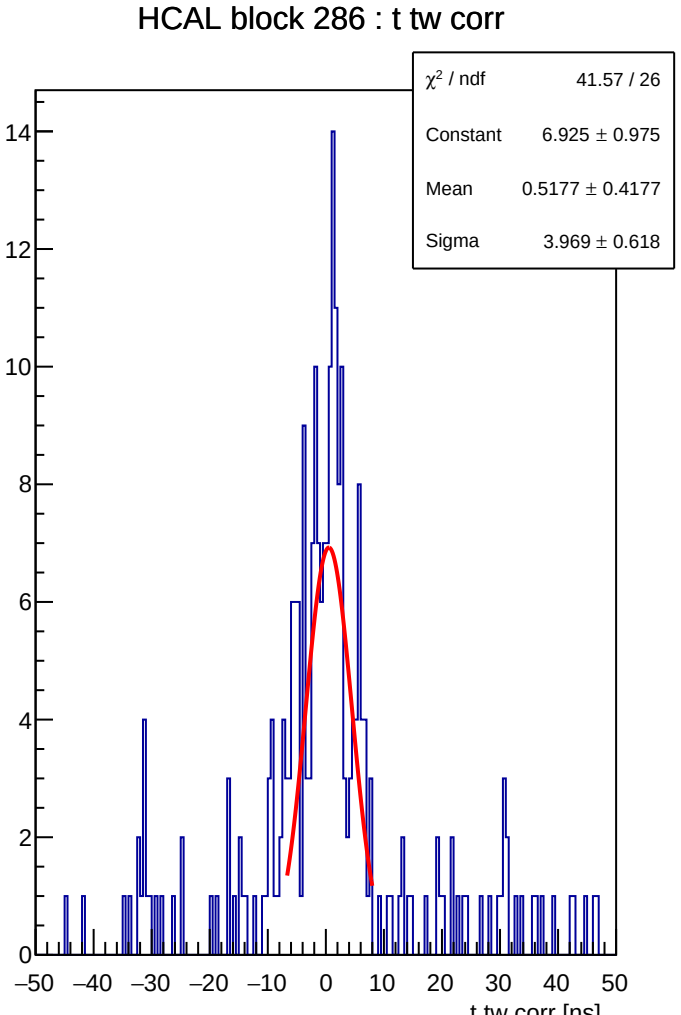

HCAL block 284 : t
χ² / ndf 20.72 / 31
Constant 3.981 ± 0.545
Mean −1.501 ± 0.930
Sigma 6.36 ± 1.27
t [ns]

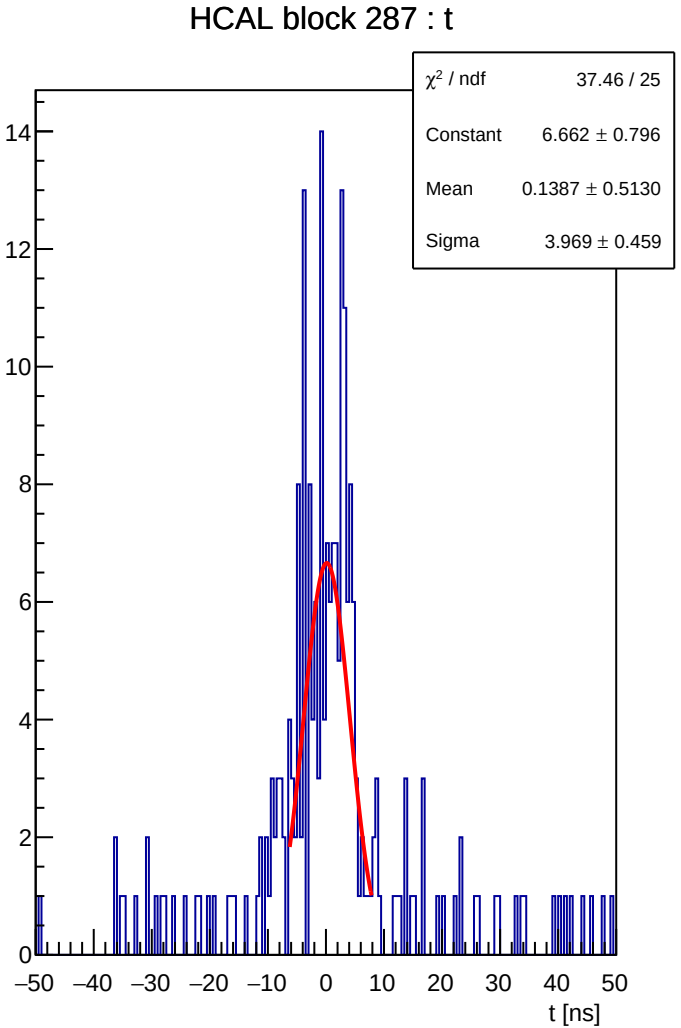

HCAL block 284 : t tw corr
χ² / ndf 17.13 / 31
Constant 4.533 ± 0.606
Mean −1.195 ± 0.623
Sigma 5.059 ± 0.719
t tw corr [ns]

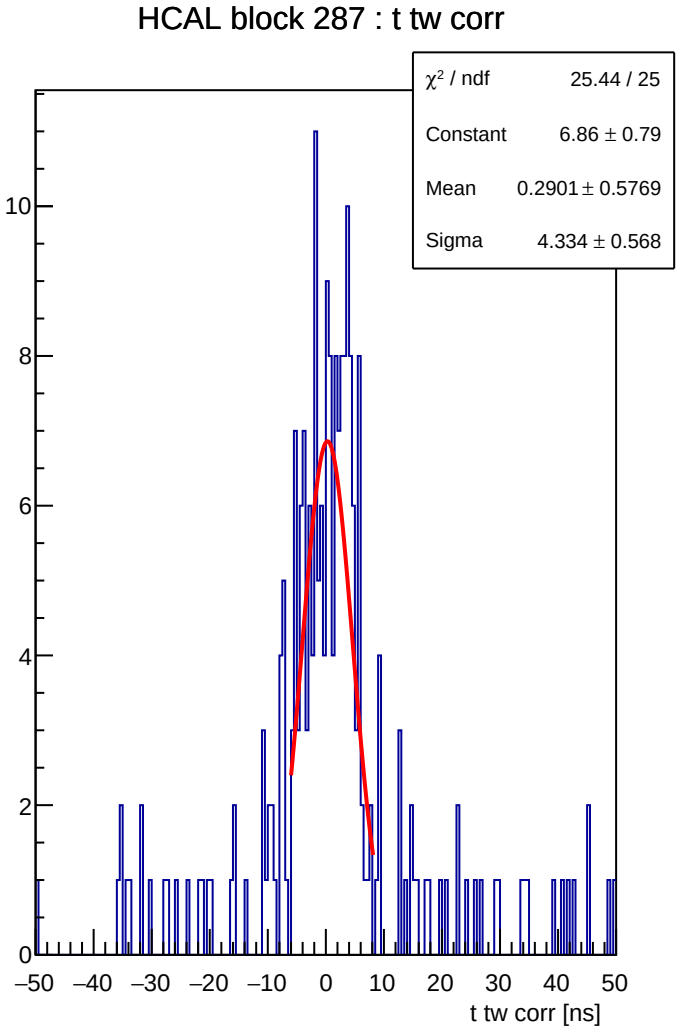

HCAL block 285 : t
χ² / ndf 34.97 / 28
Constant 8.51 ± 0.88
Mean 1.752 ± 0.364
Sigma 3.964 ± 0.356
t [ns]

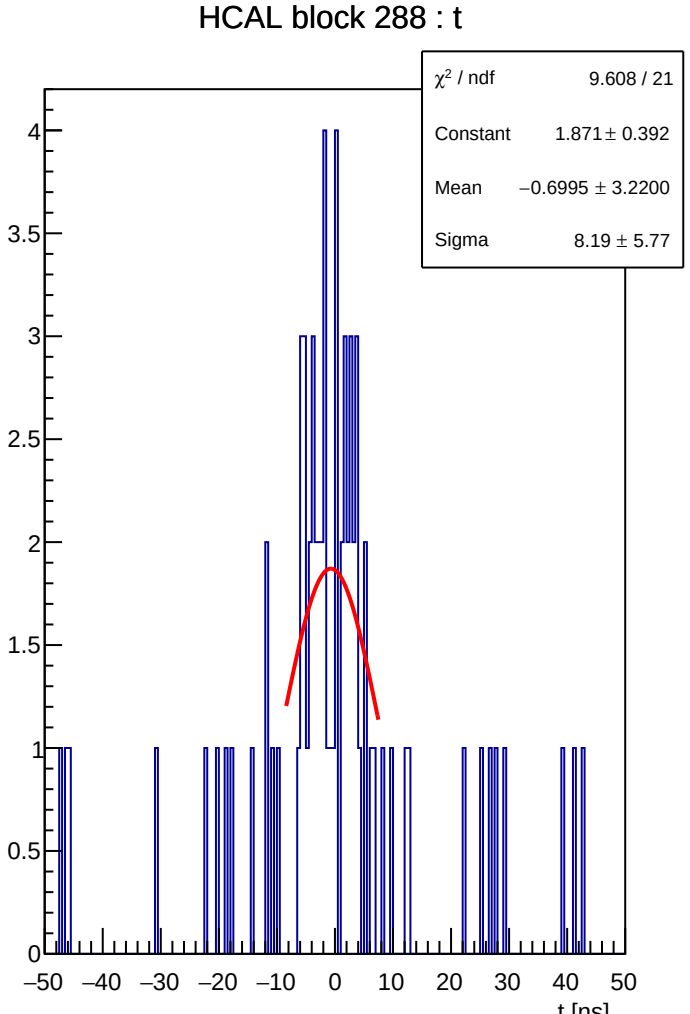

HCAL block 285 : t tw corr
χ² / ndf 29.37 / 27
Constant 9.914 ± 1.046
Mean 1.608 ± 0.358
Sigma 3.588 ± 0.326
t tw corr [ns]

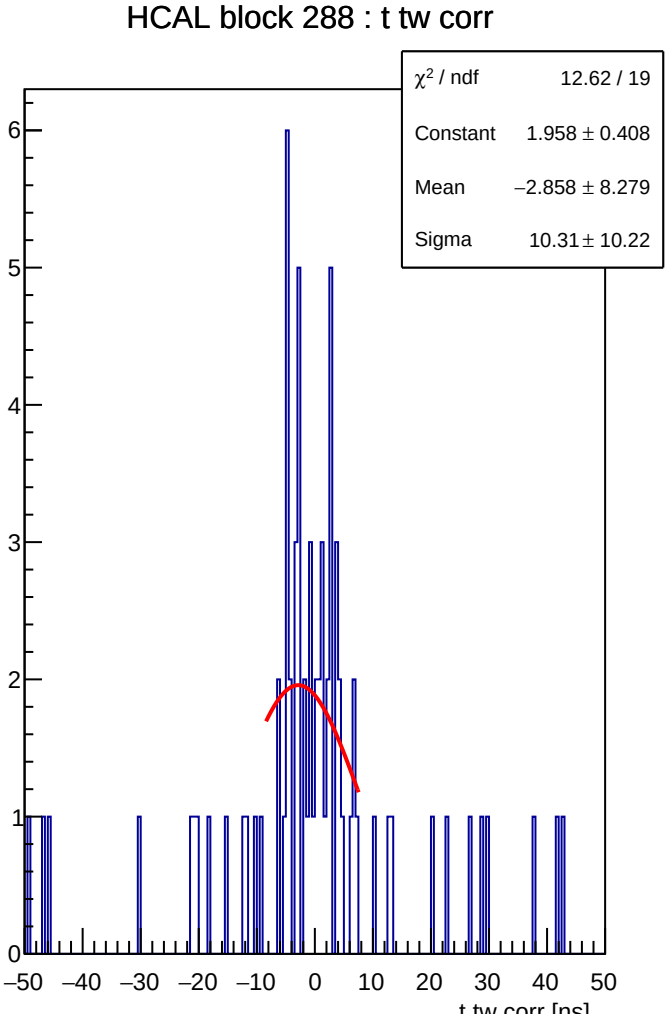

HCAL block 286 : t
χ² / ndf 24.8 / 27
Constant 7.149 ± 0.839
Mean 0.03062 ± 0.46137
Sigma 4.289 ± 0.534
t [ns]

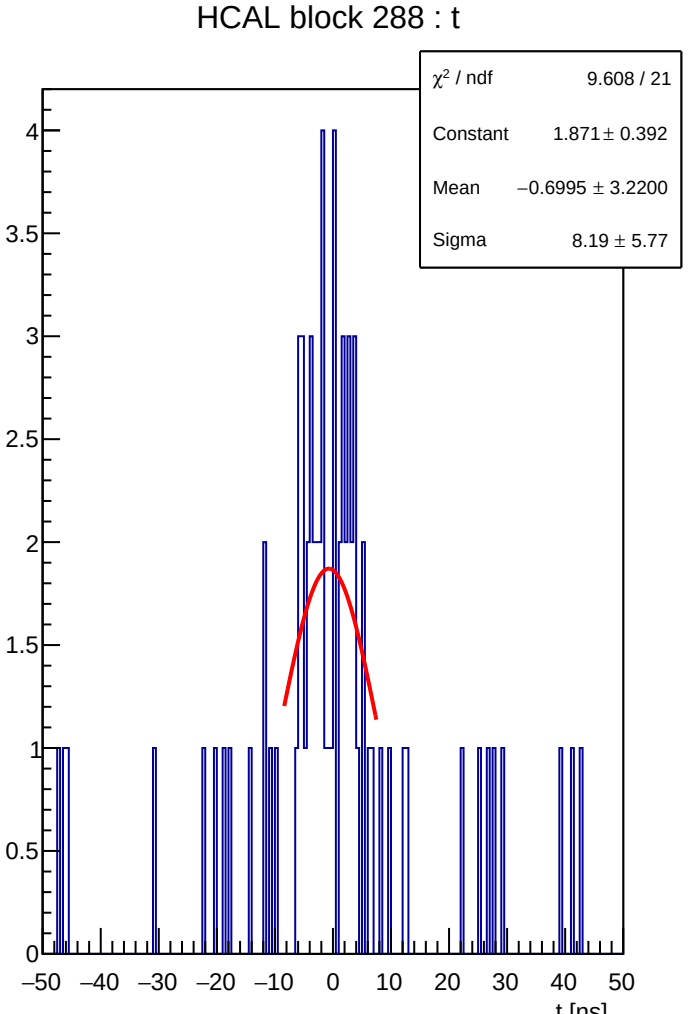

HCAL block 286 : t tw corr
χ² / ndf 41.57 / 26
Constant 6.925 ± 0.975
Mean 0.5177 ± 0.4177
Sigma 3.969 ± 0.618
t tw corr [ns]

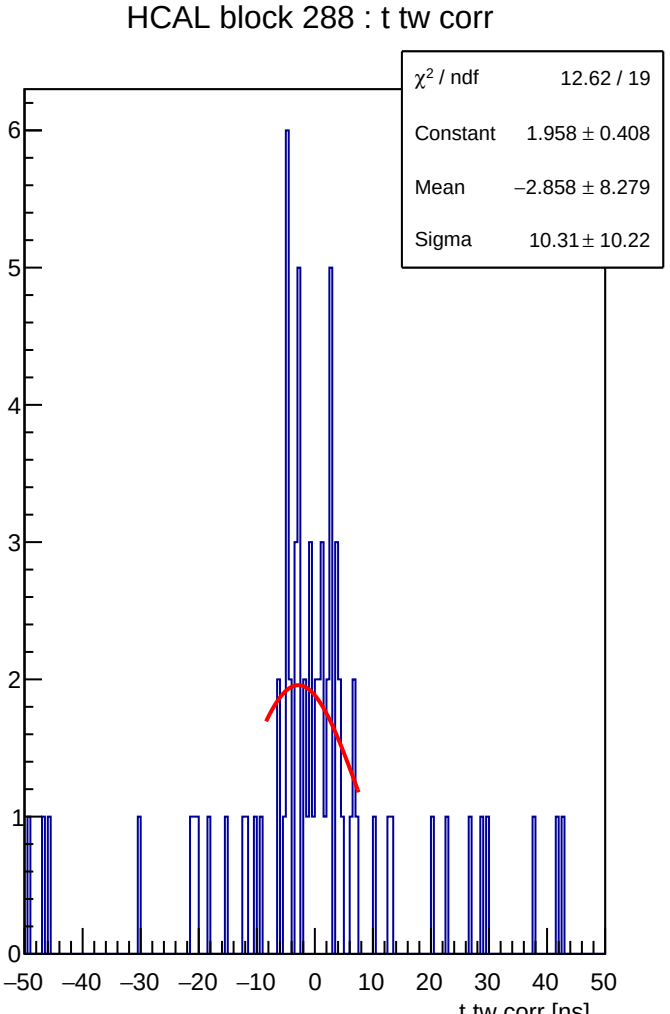

HCAL block 287 : t
χ² / ndf 37.46 / 25
Constant 6.662 ± 0.796
Mean 0.1387 ± 0.5130
Sigma 3.969 ± 0.459
t [ns]


HCAL block 287 : t tw corr
χ² / ndf 25.44 / 25
Constant 6.86 ± 0.79
Mean 0.2901 ± 0.5769
Sigma 4.334 ± 0.568
t tw corr [ns]


HCAL block 288 : t
χ² / ndf 9.608 / 21
Constant 1.871 ± 0.392
Mean −0.6995 ± 3.2200
Sigma 8.19 ± 5.77
t [ns]


HCAL block 288 : t tw corr
χ² / ndf 12.62 / 19
Constant 1.958 ± 0.408
Mean −2.858 ± 8.279
Sigma 10.31 ± 10.22
t tw corr [ns]


HCAL block 288 : t
χ² / ndf 9.608 / 21
Constant 1.871 ± 0.392
Mean −0.6995 ± 3.2200
Sigma 8.19 ± 5.77
t [ns]


HCAL block 288 : t tw corr
χ² / ndf 12.62 / 19
Constant 1.958 ± 0.408
Mean −2.858 ± 8.279
Sigma 10.31 ± 10.22
t tw corr [ns]