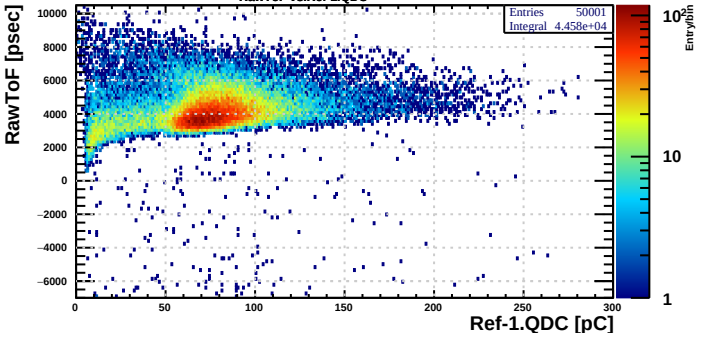
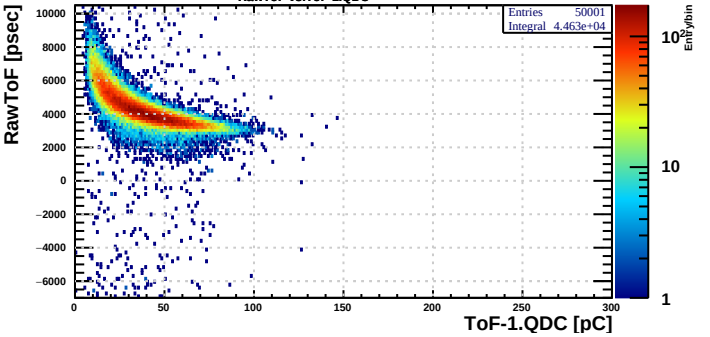
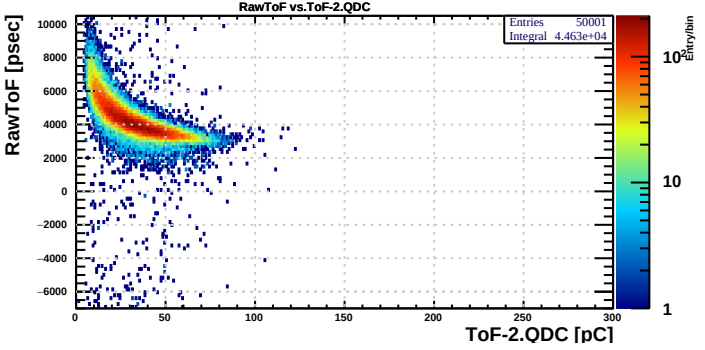
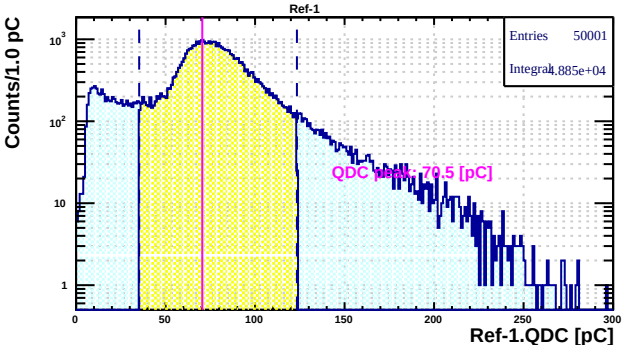
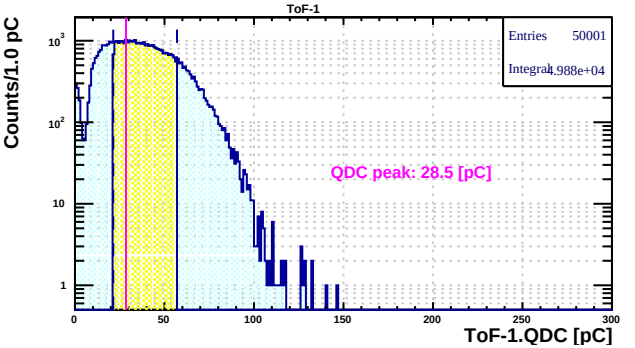
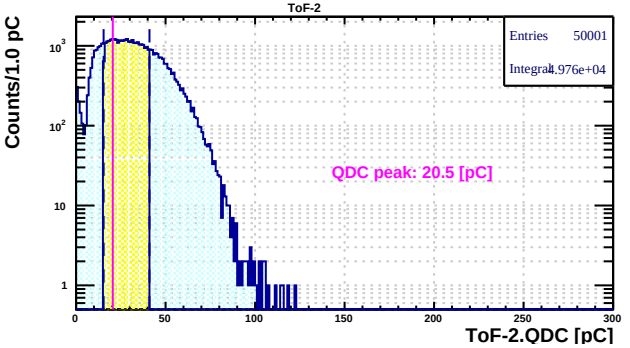

RawToF vs.Ref-1.QDC
Entries 50001
Integral 4.458e+04
RawToF [psec]
Ref-1.QDC [pC]
Entry/bin

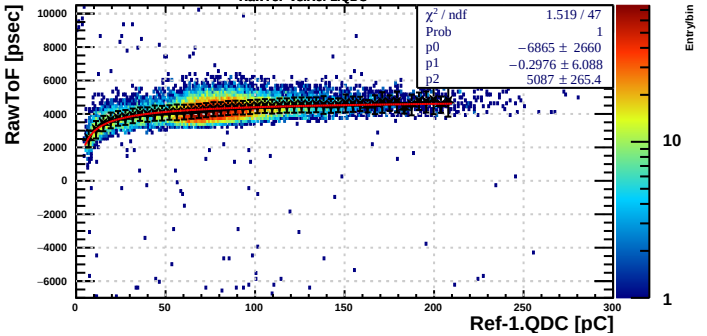

RawToF vs.ToF-1.QDC
Entries 50001
Integral 4.463e+04
RawToF [psec]
ToF-1.QDC [pC]
Entry/bin

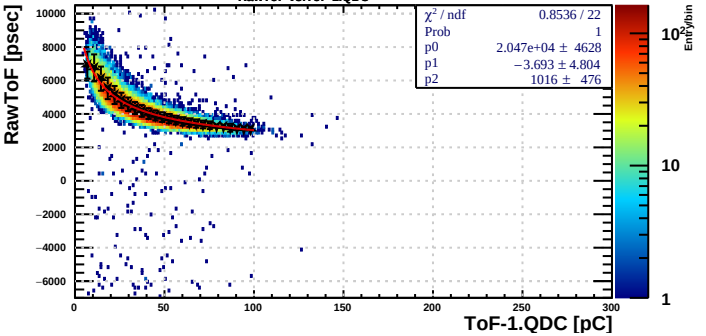

RawToF vs.ToF-2.QDC
Entries 50001
Integral 4.463e+04
RawToF [psec]
ToF-2.QDC [pC]
Entry/bin

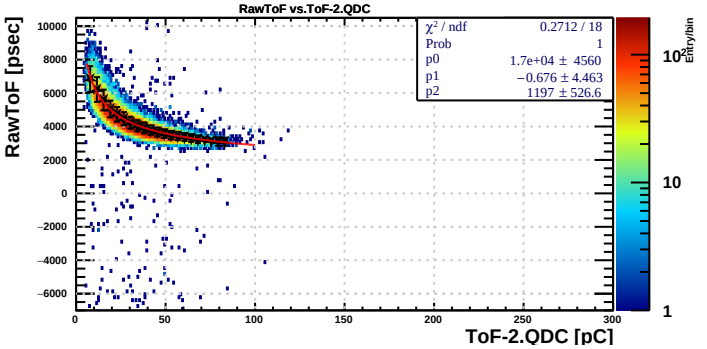

Ref-1
Entries 50001
Integral 4.885e+04
QDC peak: 79.5 [pC]
Counts/1.0 pC
Ref-1.QDC [pC]

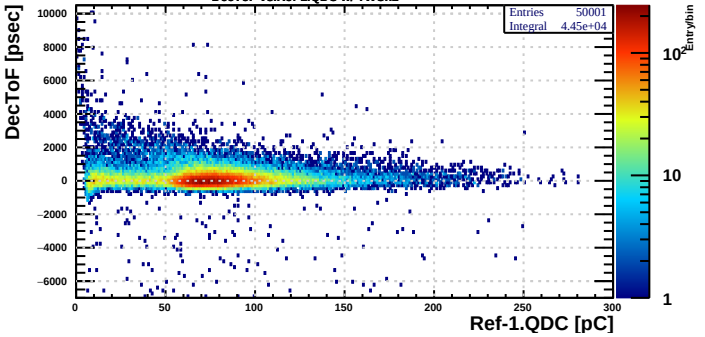

ToF-1
Entries 50001
Integral 4.988e+04
QDC peak: 28.5 [pC]
Counts/1.0 pC
ToF-1.QDC [pC]

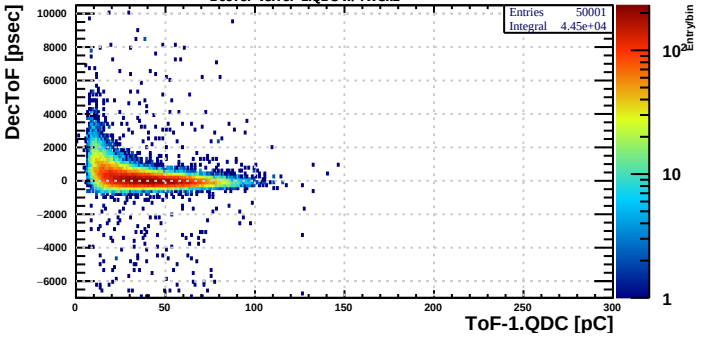

ToF-2
Entries 50001
Integral 4.976e+04
QDC peak: 20.5 [pC]
Counts/1.0 pC
ToF-2.QDC [pC]

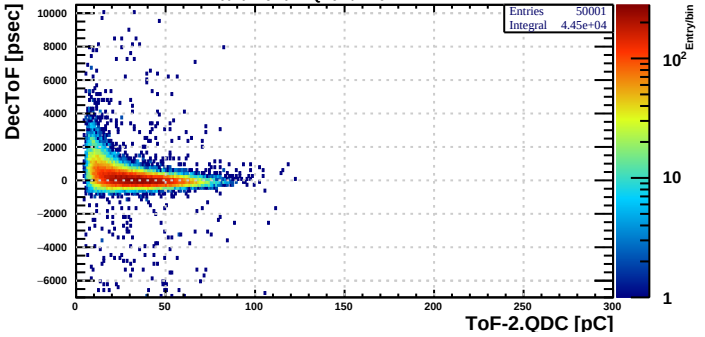

RawToF vs.Ref-1.QDC
χ² / ndf 1.519 / 47
Prob 1
p0 −6865 ± 2660
p1 −0.2976 ± 6.088
p2 5087 ± 265.4
RawToF [psec]
Ref-1.QDC [pC]
Entry/bin

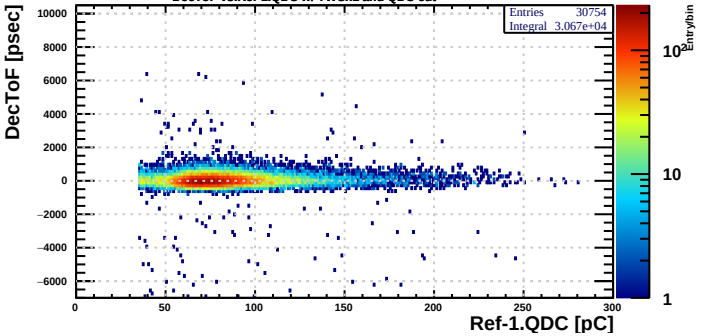

RawToF vs.ToF-1.QDC
χ² / ndf 0.8536 / 22
Prob 1
p0 2.047e+04 ± 4628
p1 −3.693 ± 4.804
p2 1016 ± 476
RawToF [psec]
ToF-1.QDC [pC]
Entry/bin

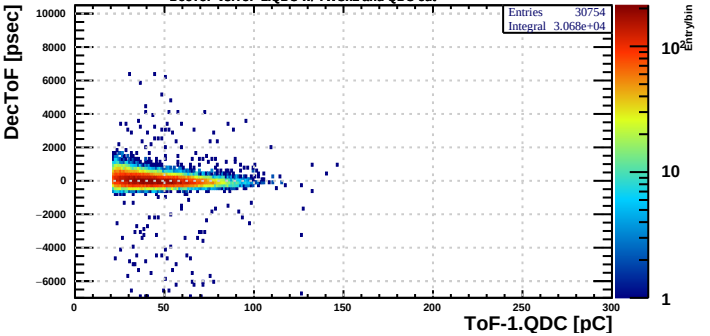

RawToF vs.ToF-2.QDC
χ² / ndf 0.2712 / 18
Prob 1
p0 1.7e+04 ± 4560
p1 −0.676 ± 4.463
p2 1197 ± 526.6
RawToF [psec]
ToF-2.QDC [pC]
Entry/bin

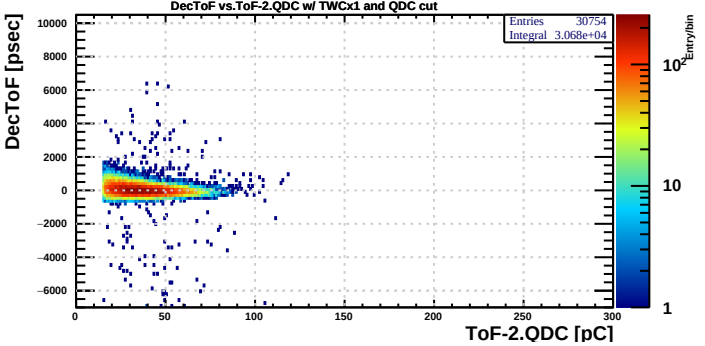

DecToF vs.Ref-1.QDC w/ TWCx1
Entries 50001
Integral 4.45e+04
DecToF [psec]
Ref-1.QDC [pC]
Entry/bin

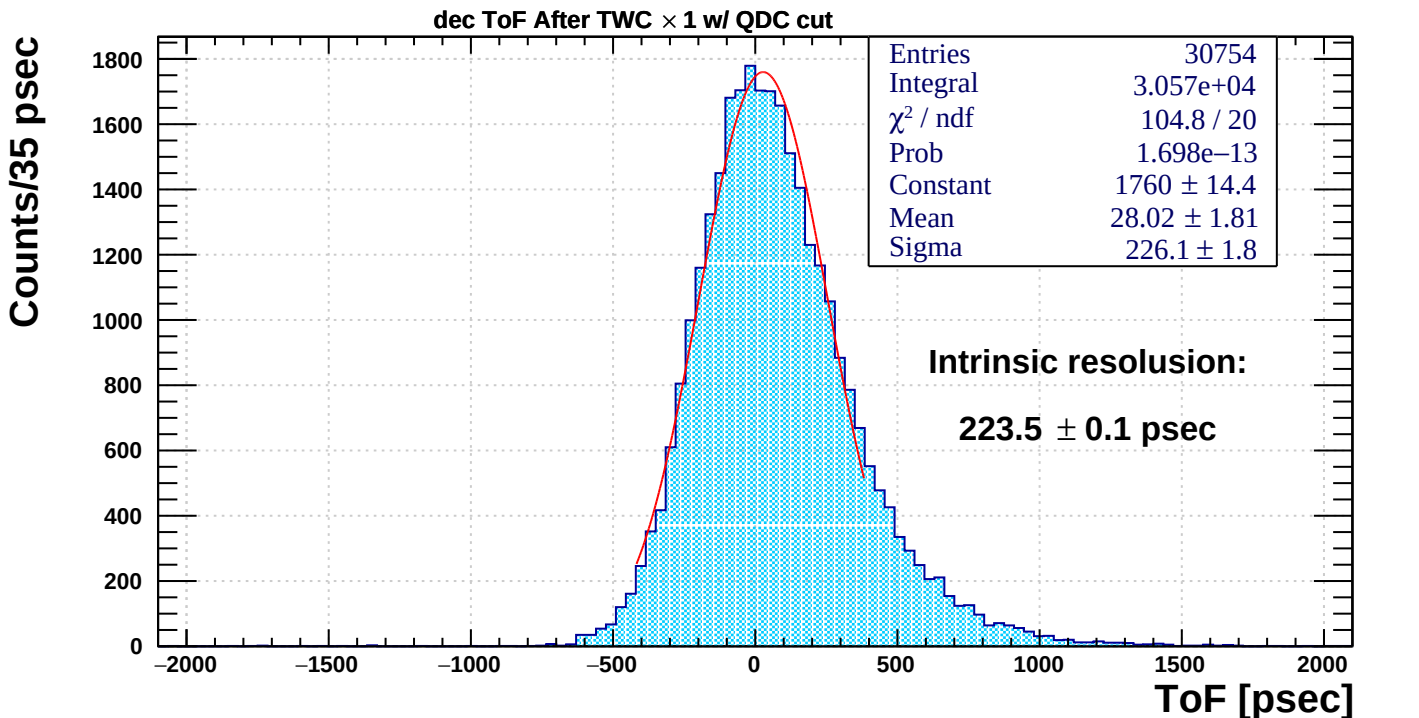

DecToF vs.ToF-1.QDC w/ TWCx1
Entries 50001
Integral 4.45e+04
DecToF [psec]
ToF-1.QDC [pC]
Entry/bin

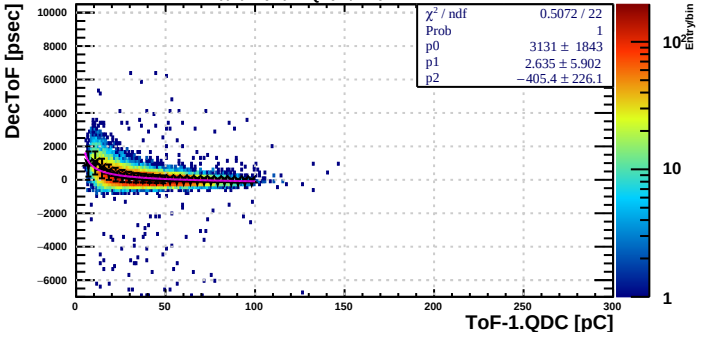

DecToF vs.ToF-2.QDC w/ TWCx1
Entries 50001
Integral 4.45e+04
DecToF [psec]
ToF-2.QDC [pC]
Entry/bin

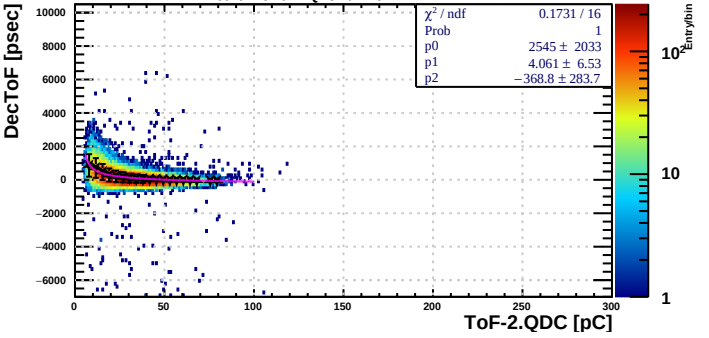

DecToF vs.Ref-1.QDC w/ TWCx1 and QDC cut
Entries 30754
Integral 3.067e+04
DecToF [psec]
Ref-1.QDC [pC]
Entry/bin

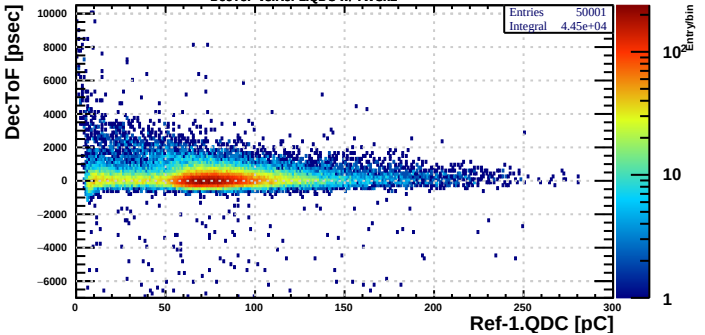

DecToF vs.ToF-1.QDC w/ TWCx1 and QDC cut
Entries 30754
Integral 3.068e+04
DecToF [psec]
ToF-1.QDC [pC]
Entry/bin

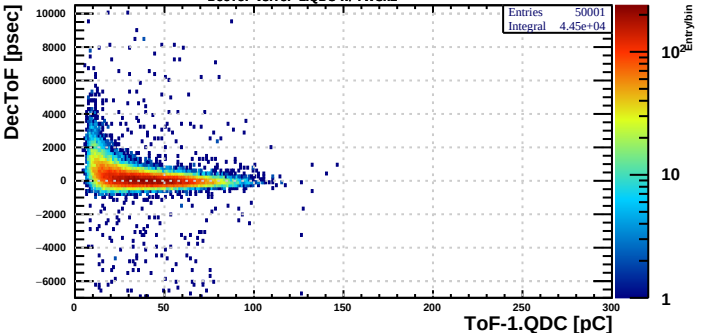

DecToF vs.ToF-2.QDC w/ TWCx1 and QDC cut
Entries 30754
Integral 3.068e+04
DecToF [psec]
ToF-2.QDC [pC]
Entry/bin

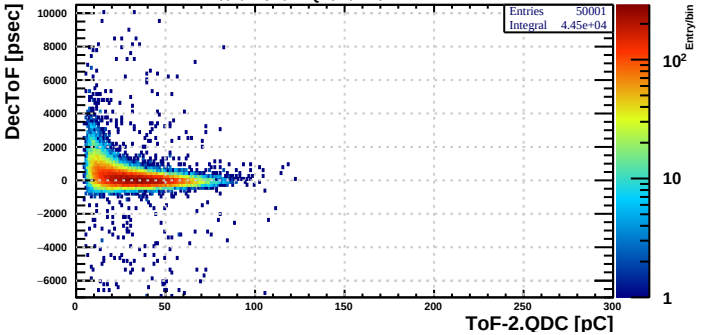

dec ToF After TWC × 1 w/ QDC cut
Entries 30754
Integral 3.057e+04
χ² / ndf 104.8 / 20
Prob 1.698e−13
Constant 1760 ± 14.4
Mean 28.02 ± 1.81
Sigma 226.1 ± 1.8
Intrinsic resolusion:
223.5 ± 0.1 psec
Counts/35 psec
ToF [psec]
0
200
400
600
800
1000
1200
1400
1600
1800
−2000
−1500
−1000
−500
0
500
1000
1500
2000

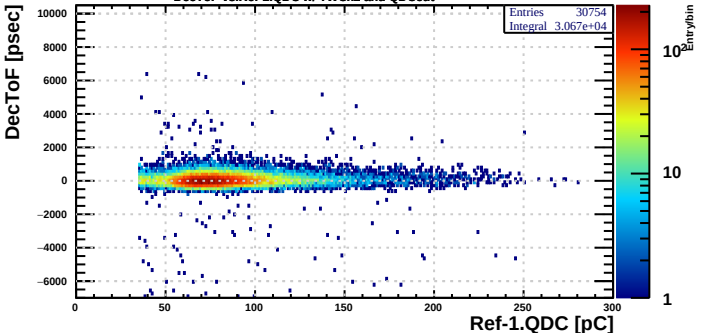

DecToF vs.ToF-1.QDC w/ TWCx2
χ² / ndf 0.5072 / 22
Prob 1
p0 3131 ± 1843
p1 2.635 ± 5.902
p2 −405.4 ± 226.1
DecToF [psec]
ToF-1.QDC [pC]
Entry/bin

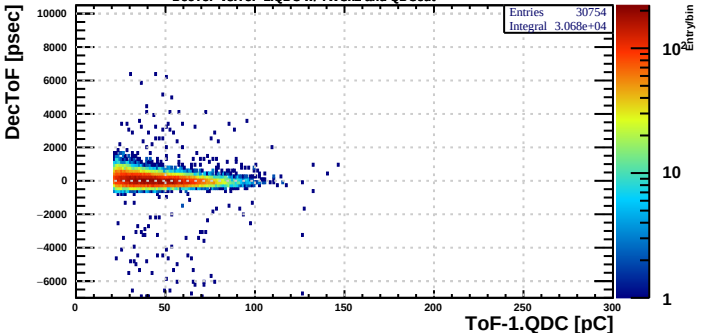

DecToF vs.ToF-2.QDC w/ TWCx2
χ² / ndf 0.1731 / 16
Prob 1
p0 2545 ± 2033
p1 4.061 ± 6.53
p2 −368.8 ± 283.7
DecToF [psec]
ToF-2.QDC [pC]
Entry/bin

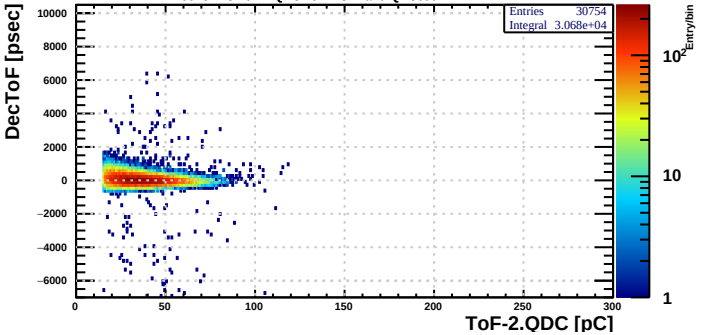

DecToF vs.Ref-1.QDC w/ TWCx2
Entries 50001
Integral 4.45e+04
DecToF [psec]
Ref-1.QDC [pC]
Entry/bin

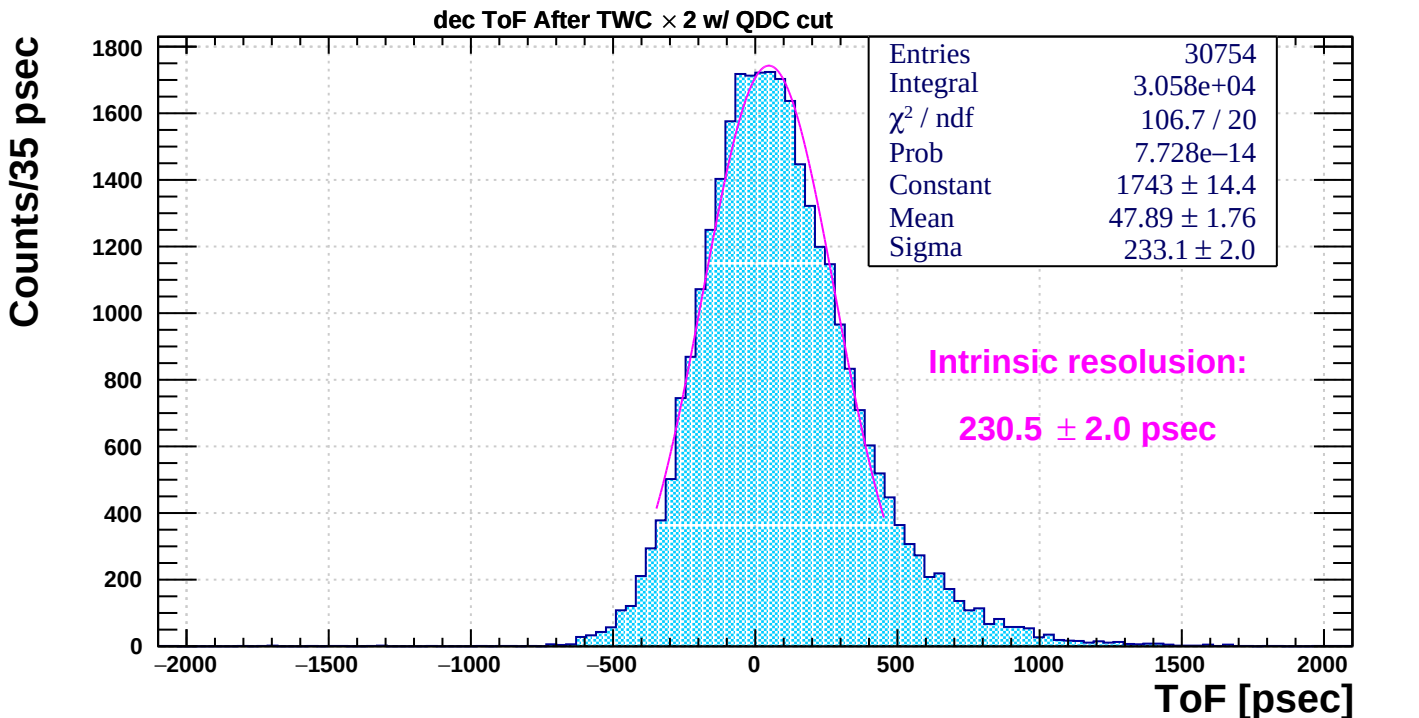

DecToF vs.ToF-1.QDC w/ TWCx2
Entries 50001
Integral 4.45e+04
DecToF [psec]
ToF-1.QDC [pC]
Entry/bin

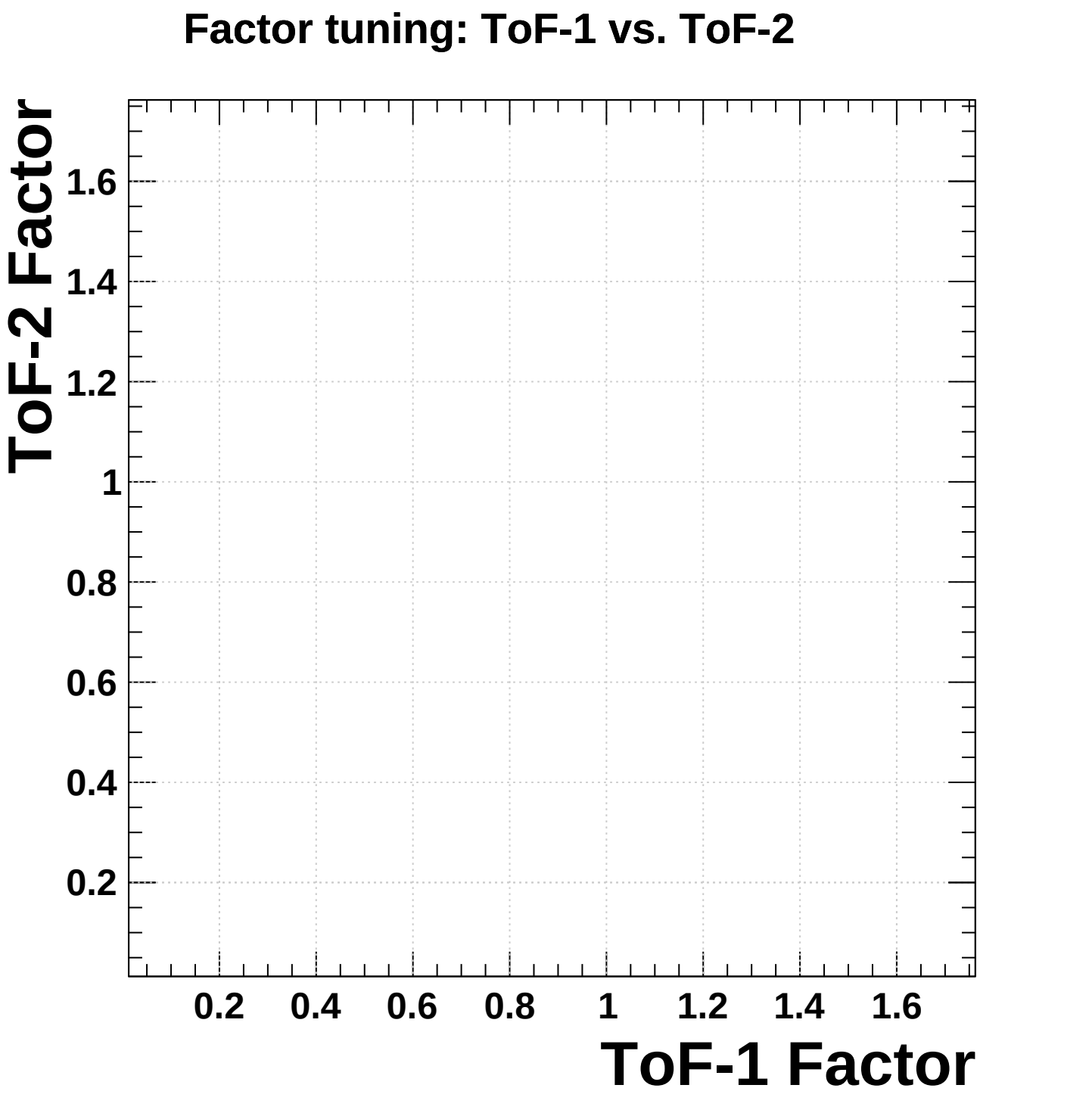

DecToF vs.ToF-2.QDC w/ TWCx2
Entries 50001
Integral 4.45e+04
DecToF [psec]
ToF-2.QDC [pC]
Entry/bin

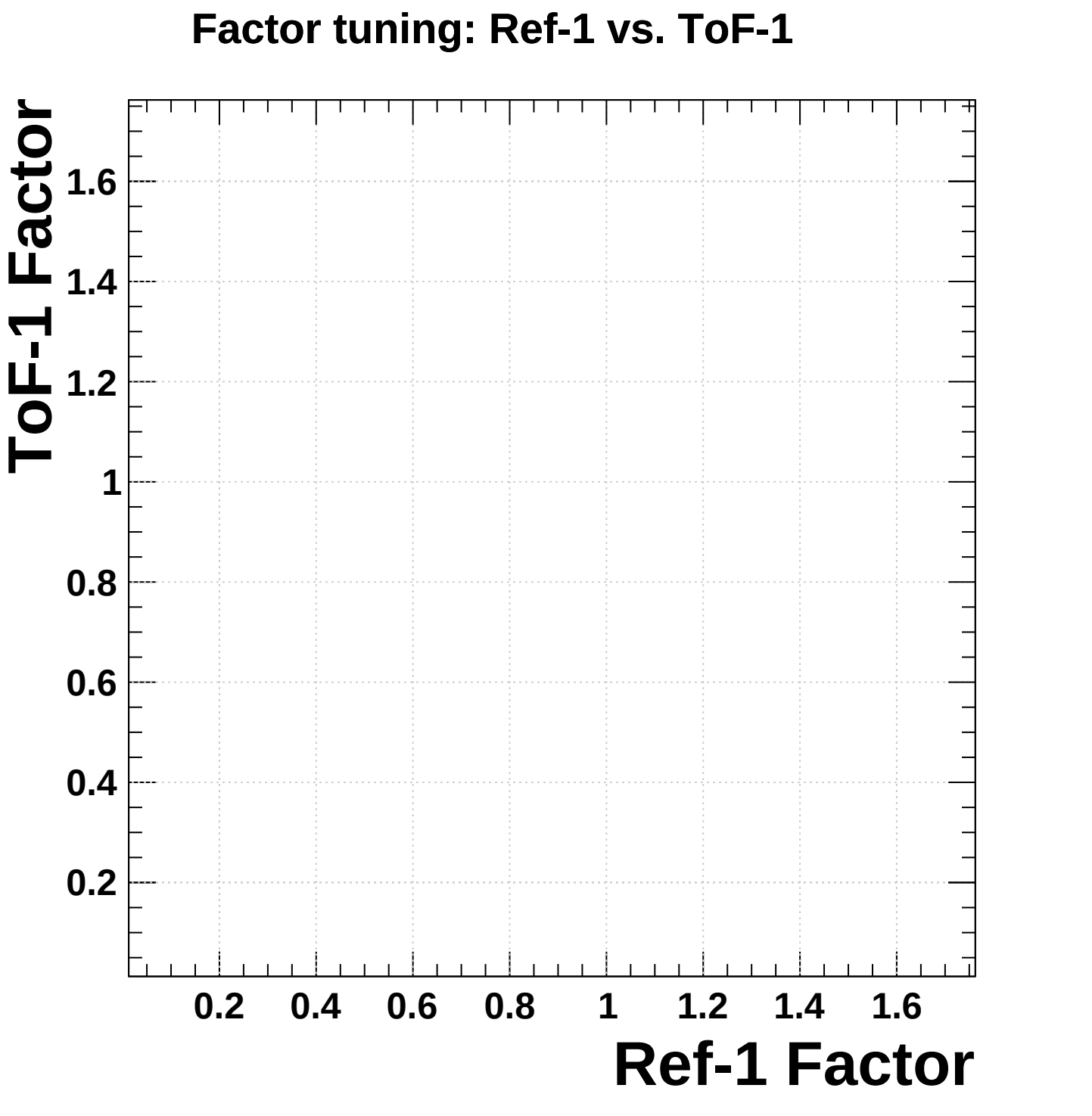

DecToF vs.Ref-1.QDC w/ TWCx2 and QDCcut
Entries 30754
Integral 3.067e+04
DecToF [psec]
Ref-1.QDC [pC]
Entry/bin

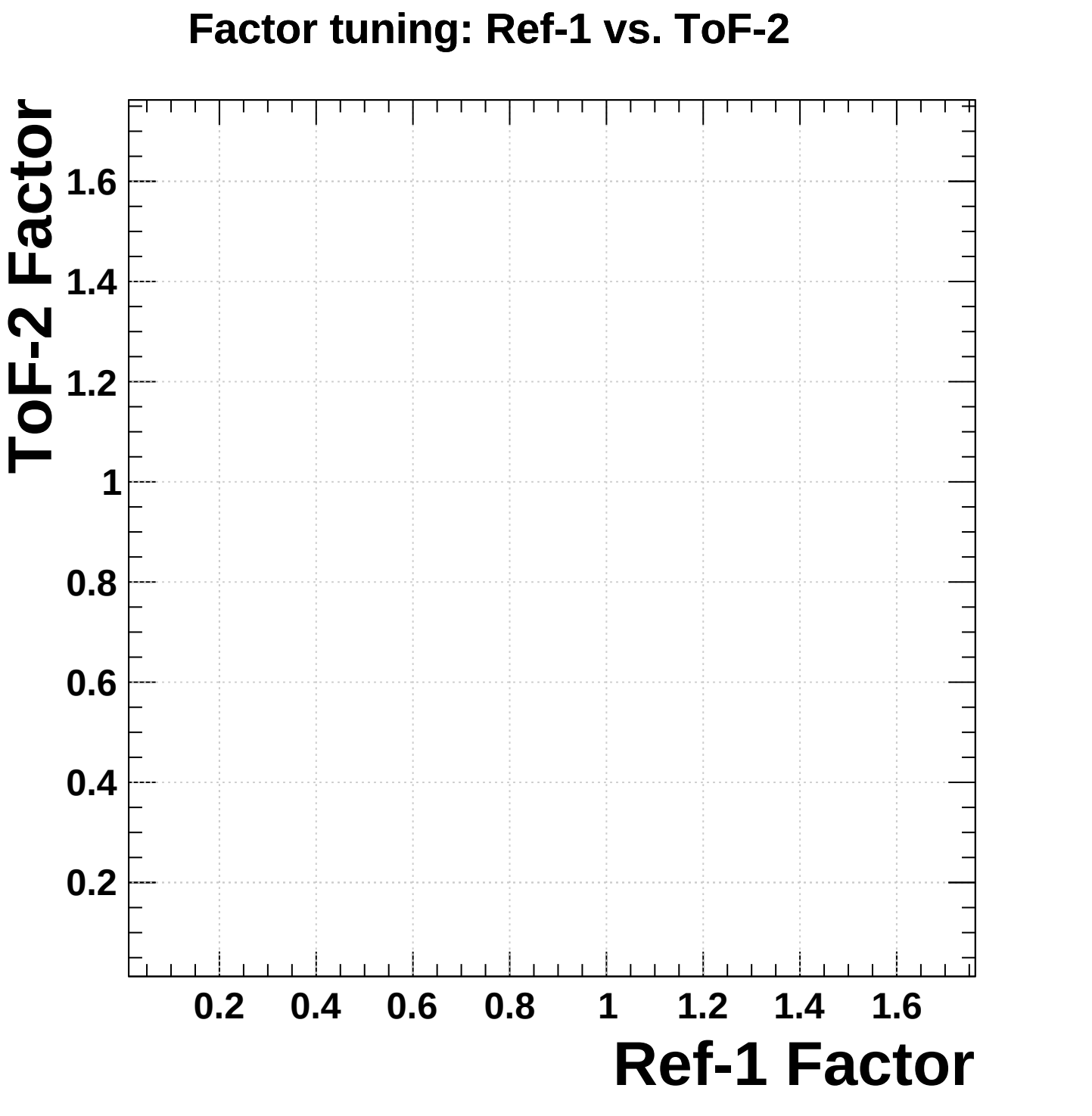

DecToF vs.ToF-1.QDC w/ TWCx2 and QDCcut
Entries 30754
Integral 3.068e+04
DecToF [psec]
ToF-1.QDC [pC]
Entry/bin

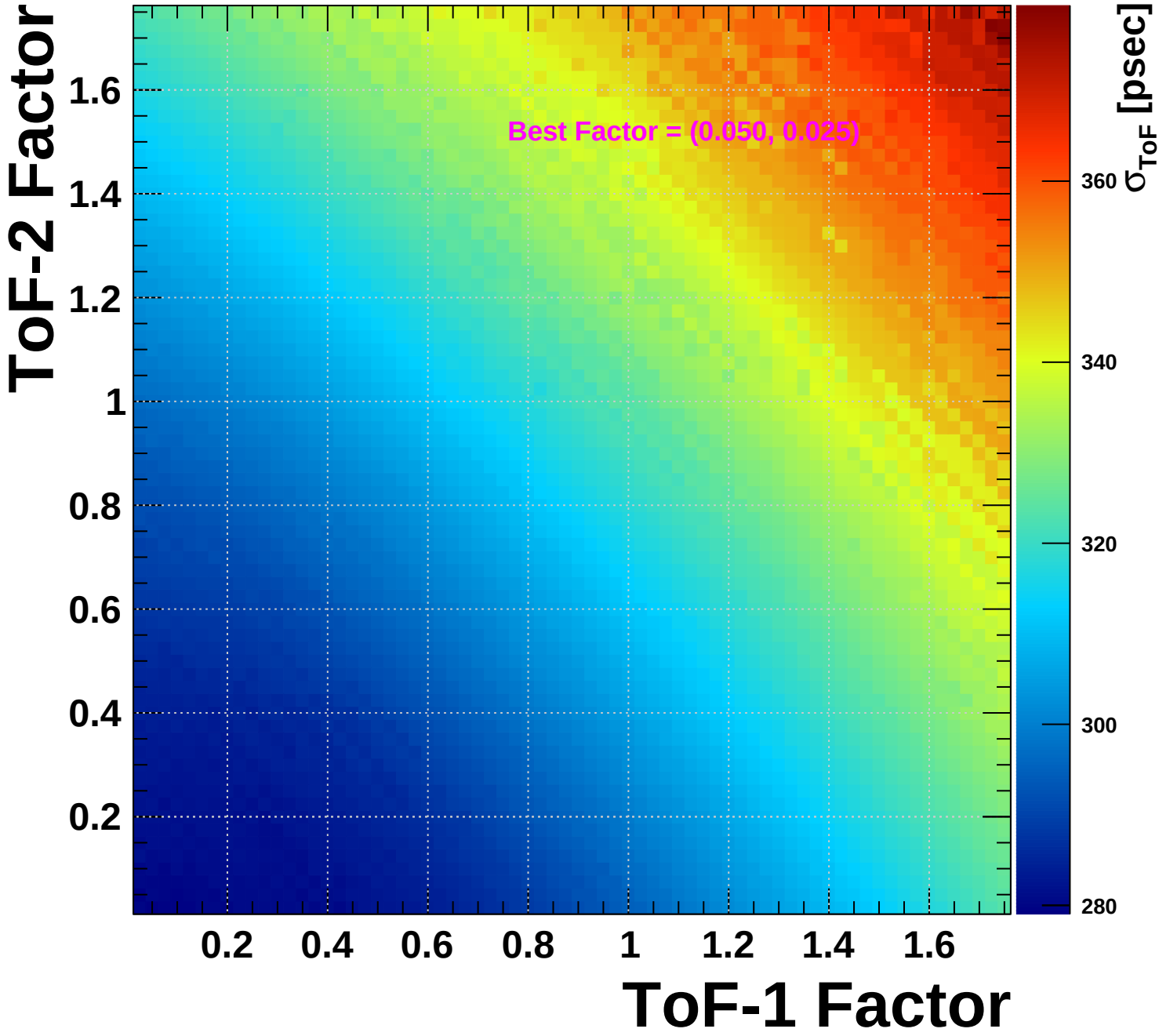

DecToF vs.ToF-2.QDC w/ TWCx2 and QDCcut
Entries 30754
Integral 3.068e+04
DecToF [psec]
ToF-2.QDC [pC]
Entry/bin


dec ToF After TWC × 2 w/ QDC cut
Entries 30754
Integral 3.058e+04
χ² / ndf 106.7 / 20
Prob 7.728e−14
Constant 1743 ± 14.4
Mean 47.89 ± 1.76
Sigma 233.1 ± 2.0
Intrinsic resolusion:
230.5 ± 2.0 psec
Counts/35 psec
ToF [psec]
0
200
400
600
800
1000
1200
1400
1600
1800
−2000
−1500
−1000
−500
0
500
1000
1500
2000


Factor tuning: ToF-1 vs. ToF-2
ToF-2 Factor
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
ToF-1 Factor


Factor tuning: Ref-1 vs. ToF-1
ToF-1 Factor
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
Ref-1 Factor


Factor tuning: Ref-1 vs. ToF-2
ToF-2 Factor
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
Ref-1 Factor


Factor tuning: ToF-1 vs. ToF-2 for Second Fit
Best Factor = (0.050, 0.025)
ToF-2 Factor
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
ToF-1 Factor
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
σToF [psec]
280
300
320
340
360