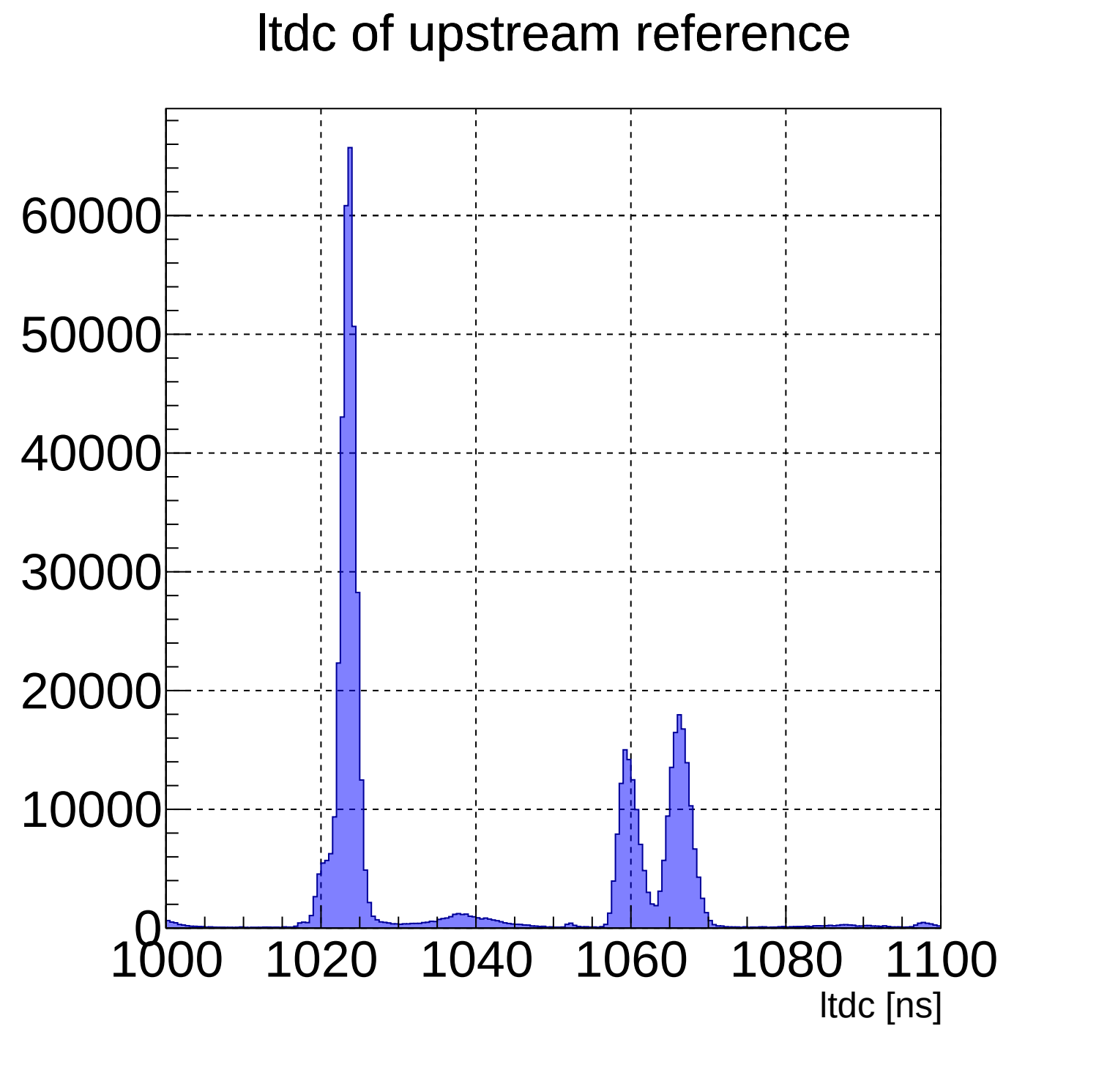
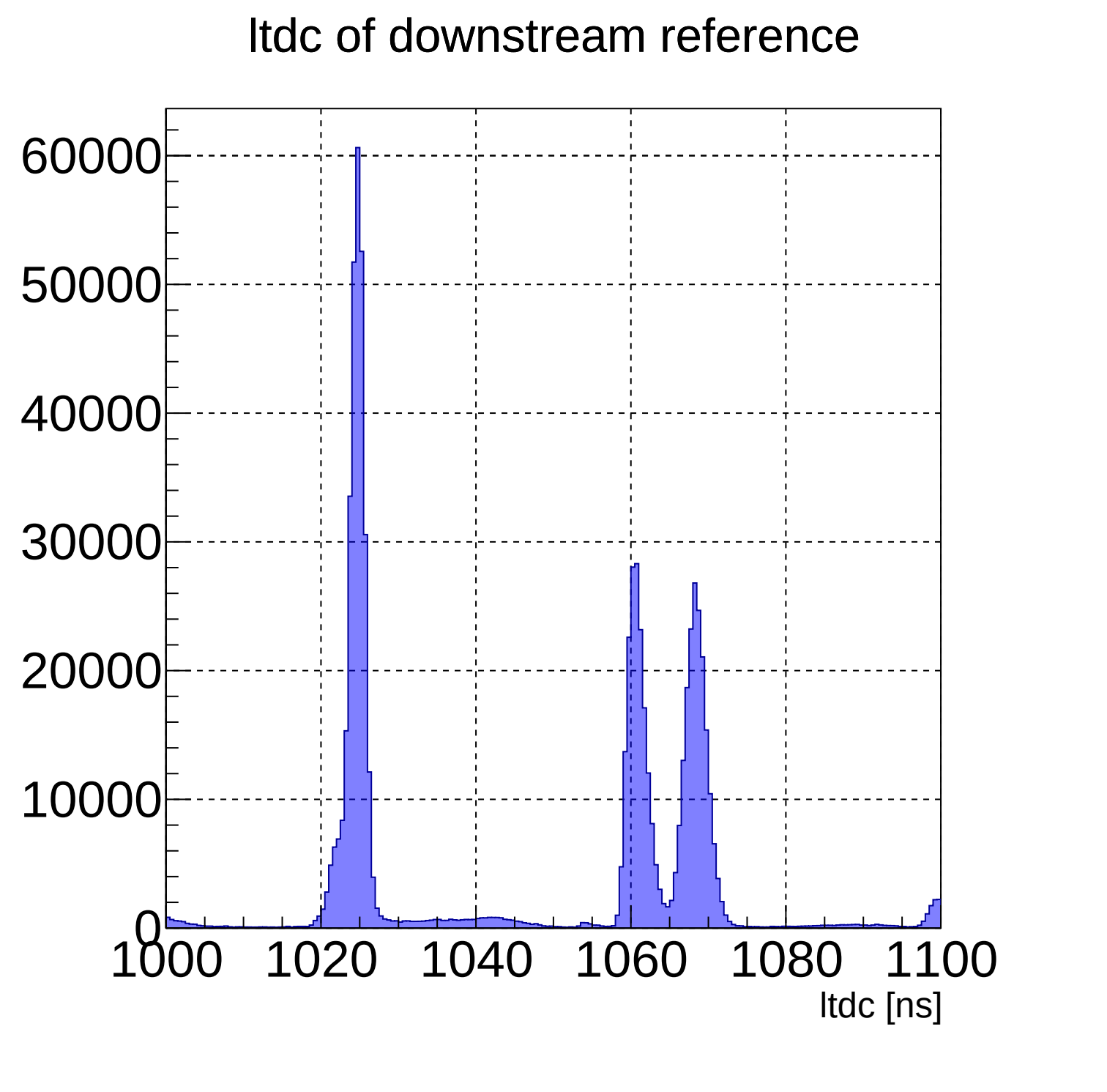
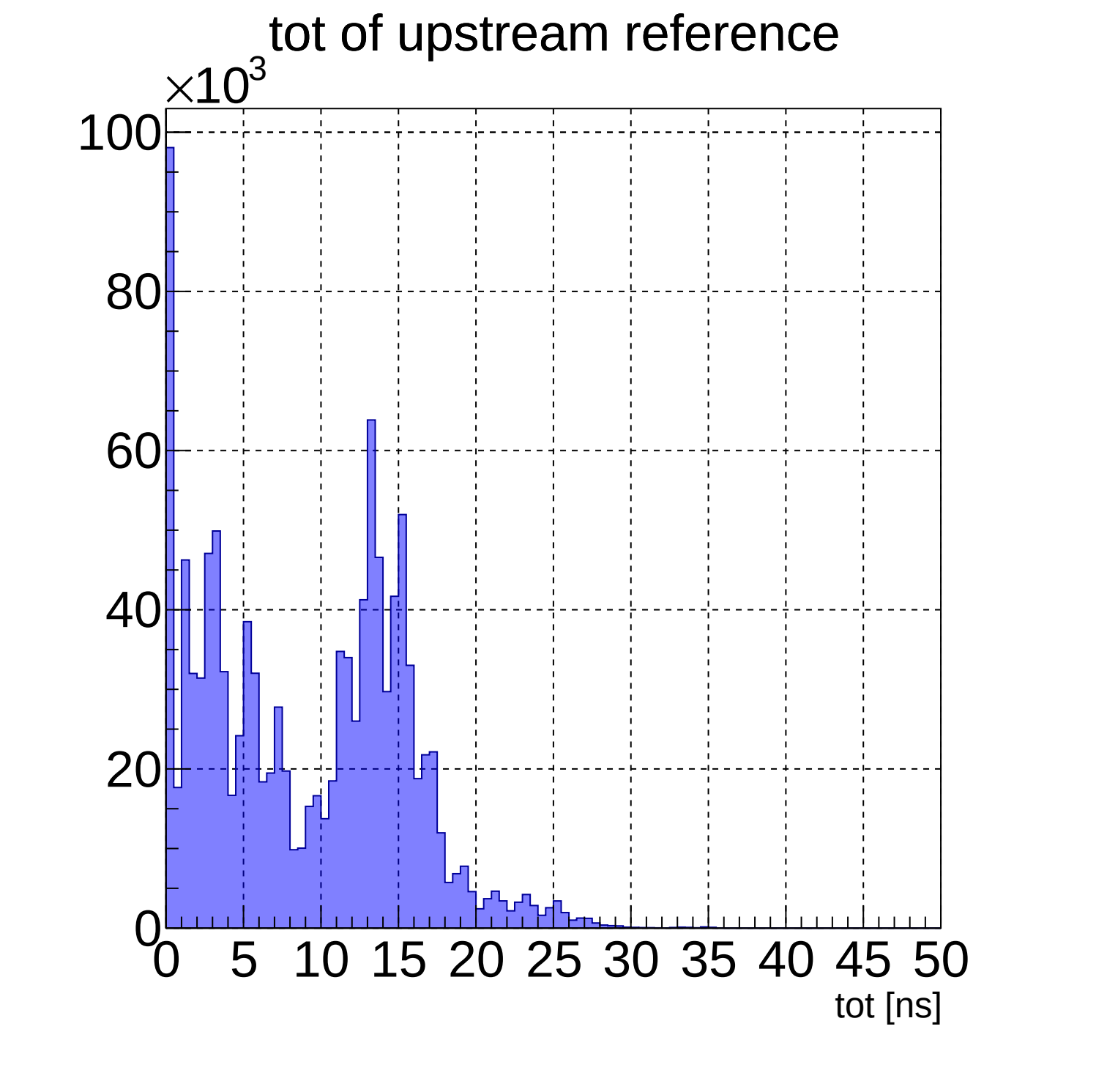
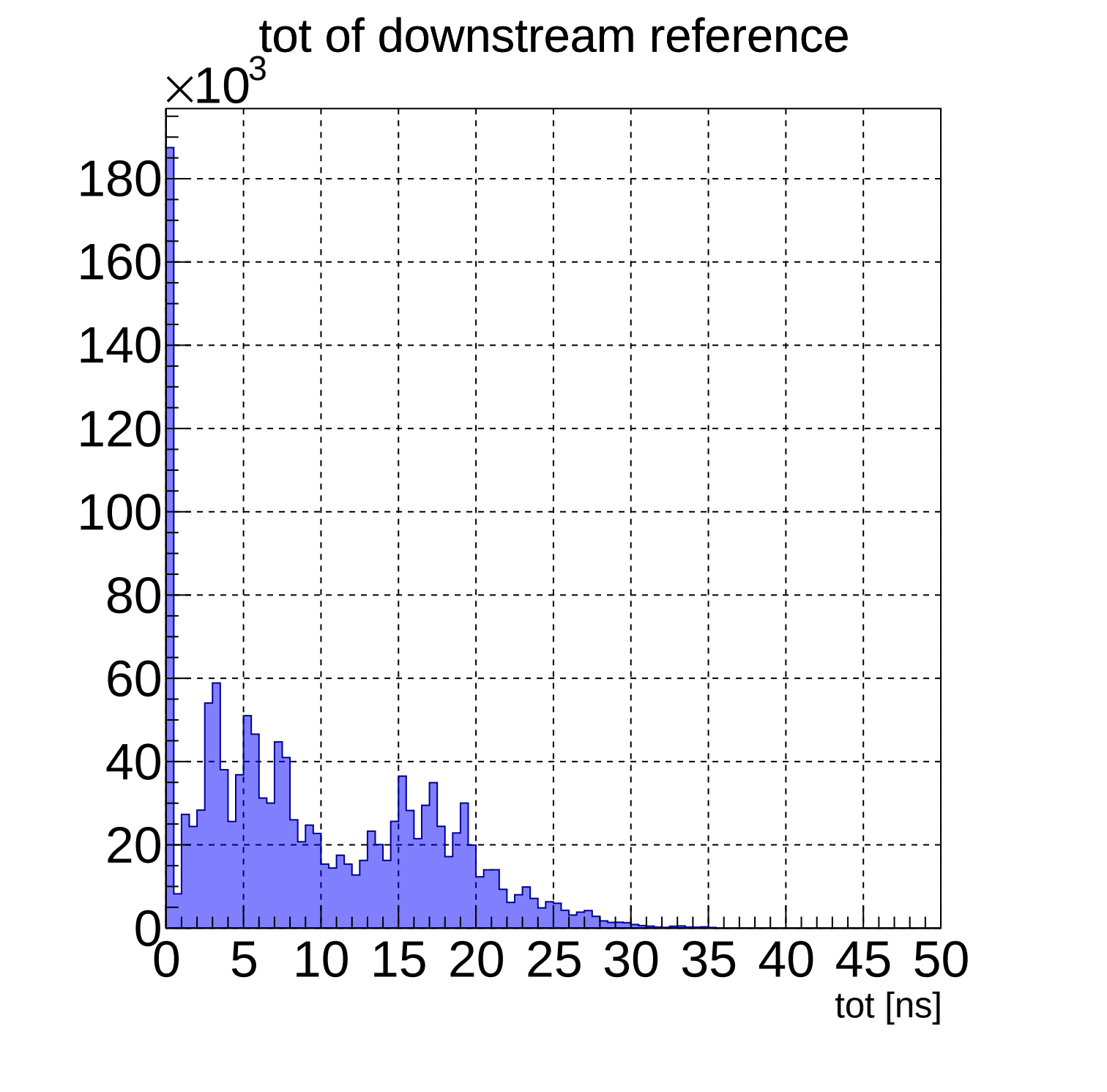
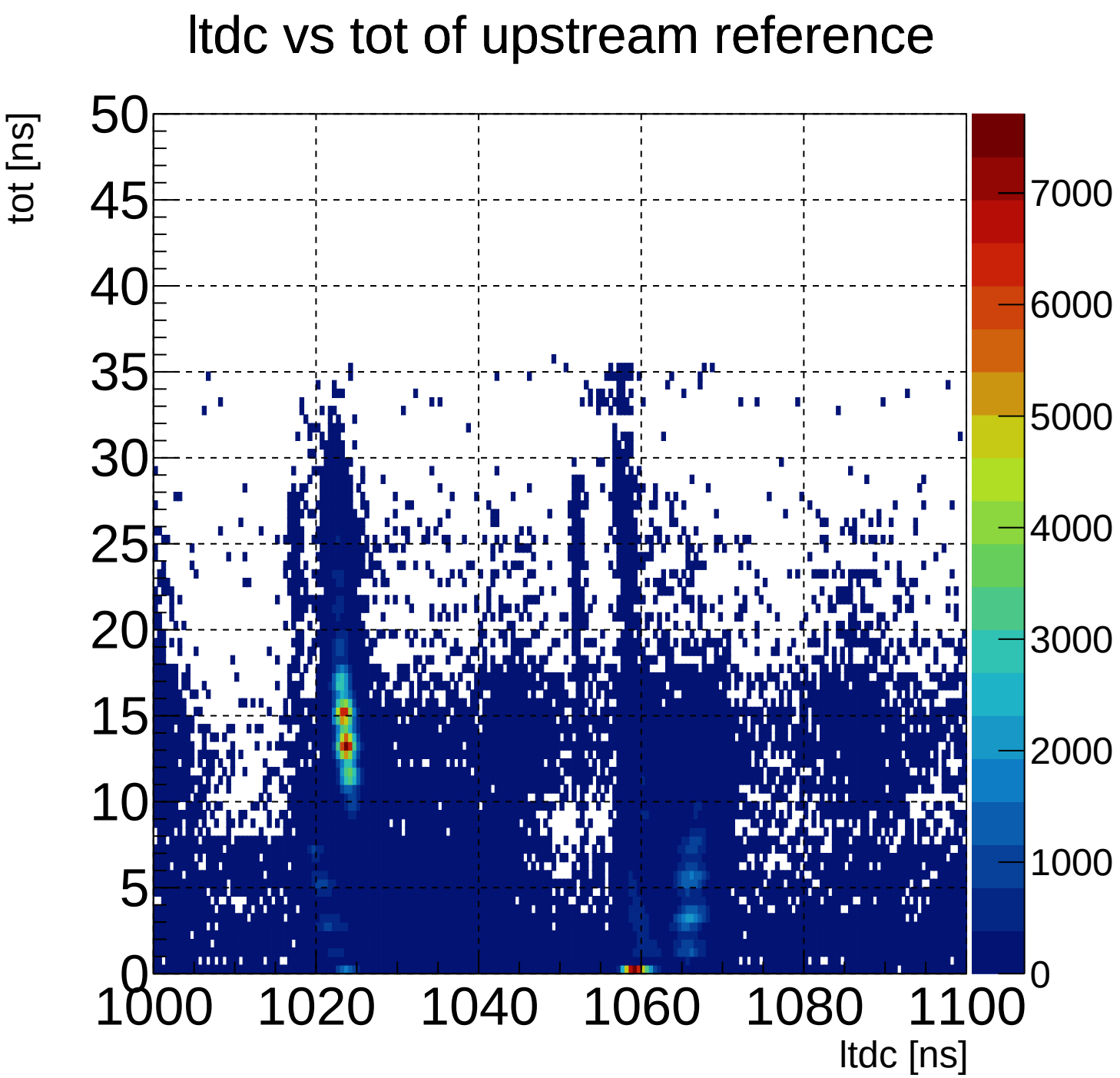
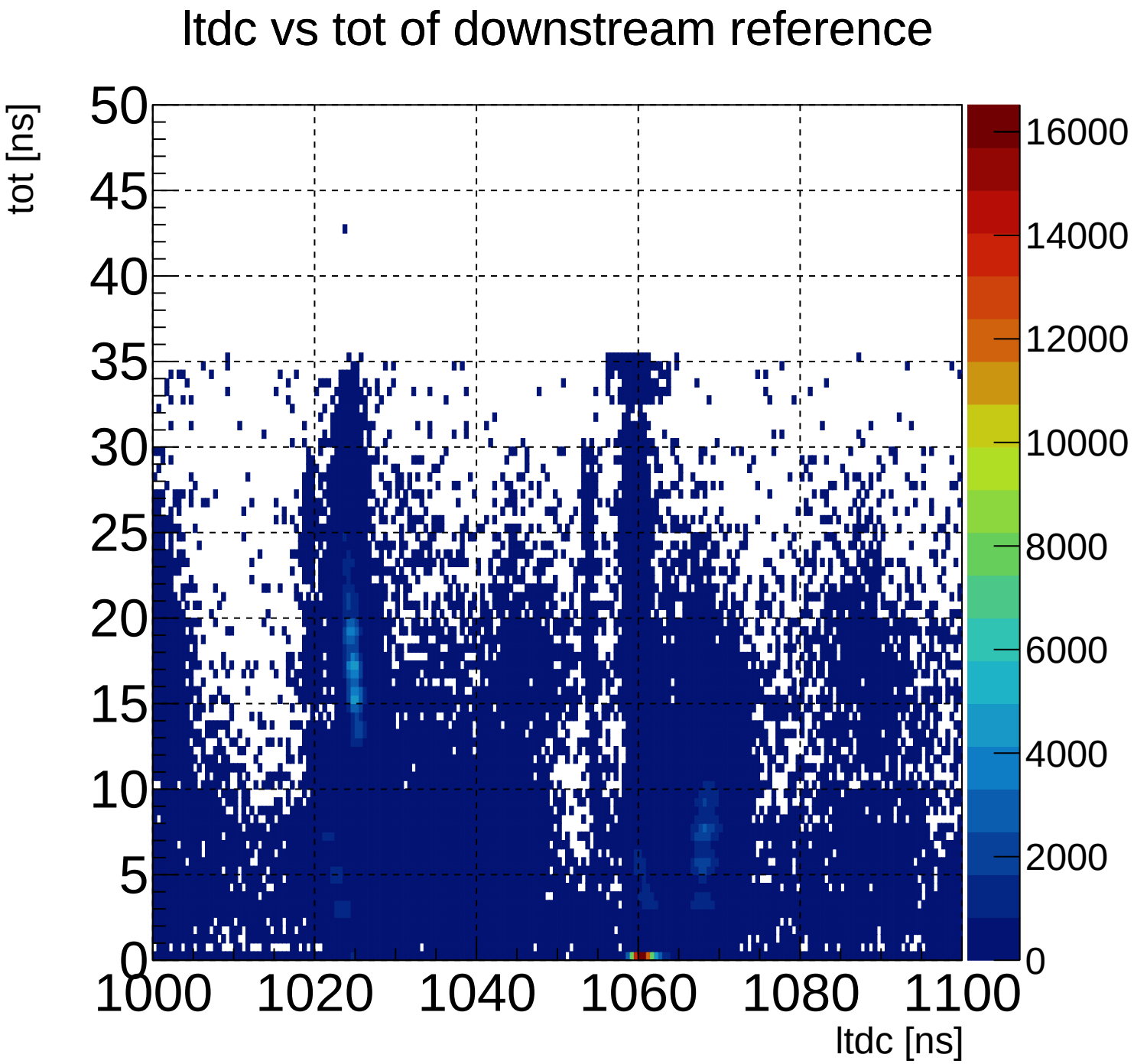

ltdc of upstream reference
60000
50000
40000
30000
20000
10000
0
1000
1020
1040
1060
1080
1100
ltdc [ns]

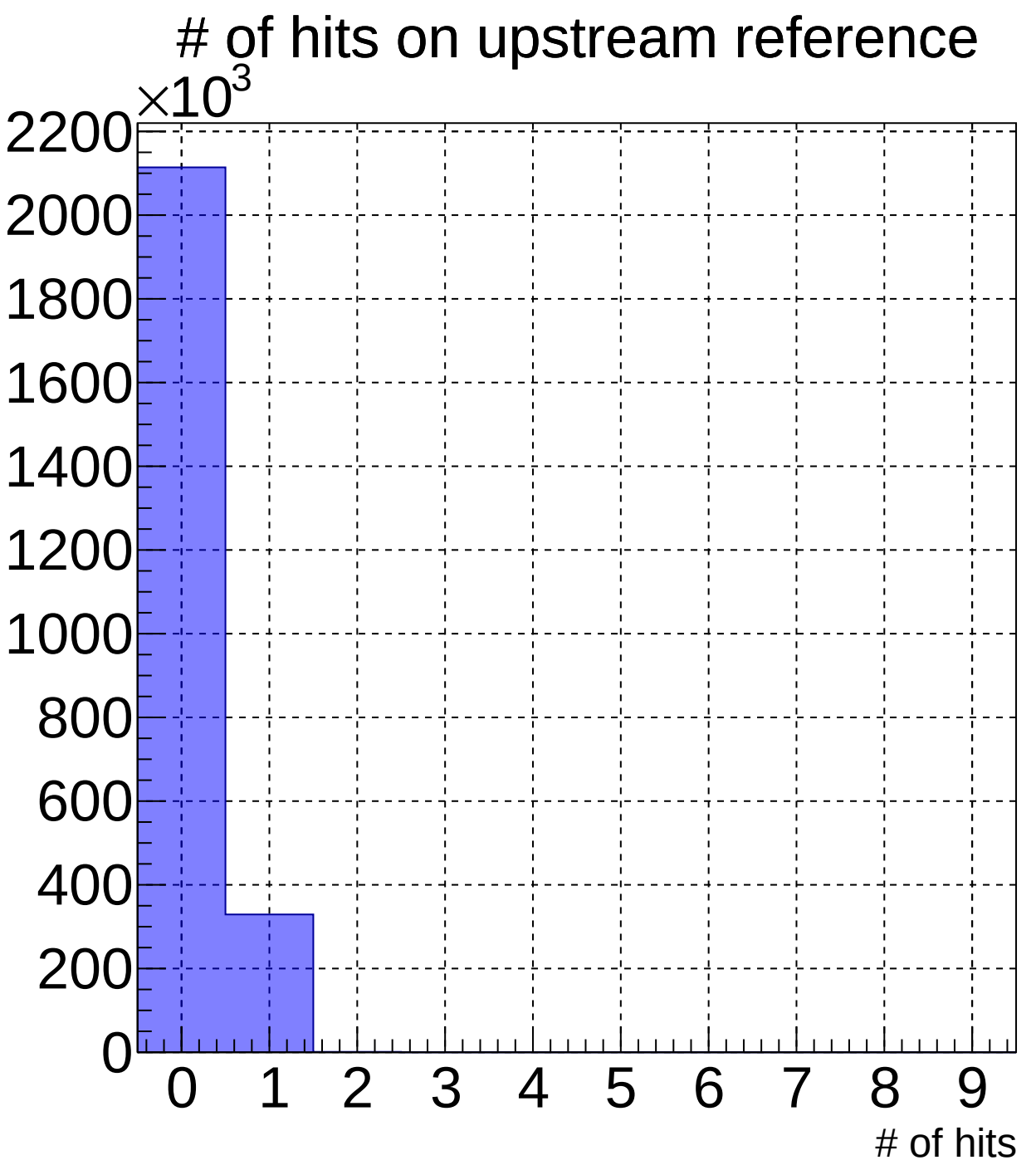

ltdc of downstream reference
60000
50000
40000
30000
20000
10000
0
1000
1020
1040
1060
1080
1100
ltdc [ns]

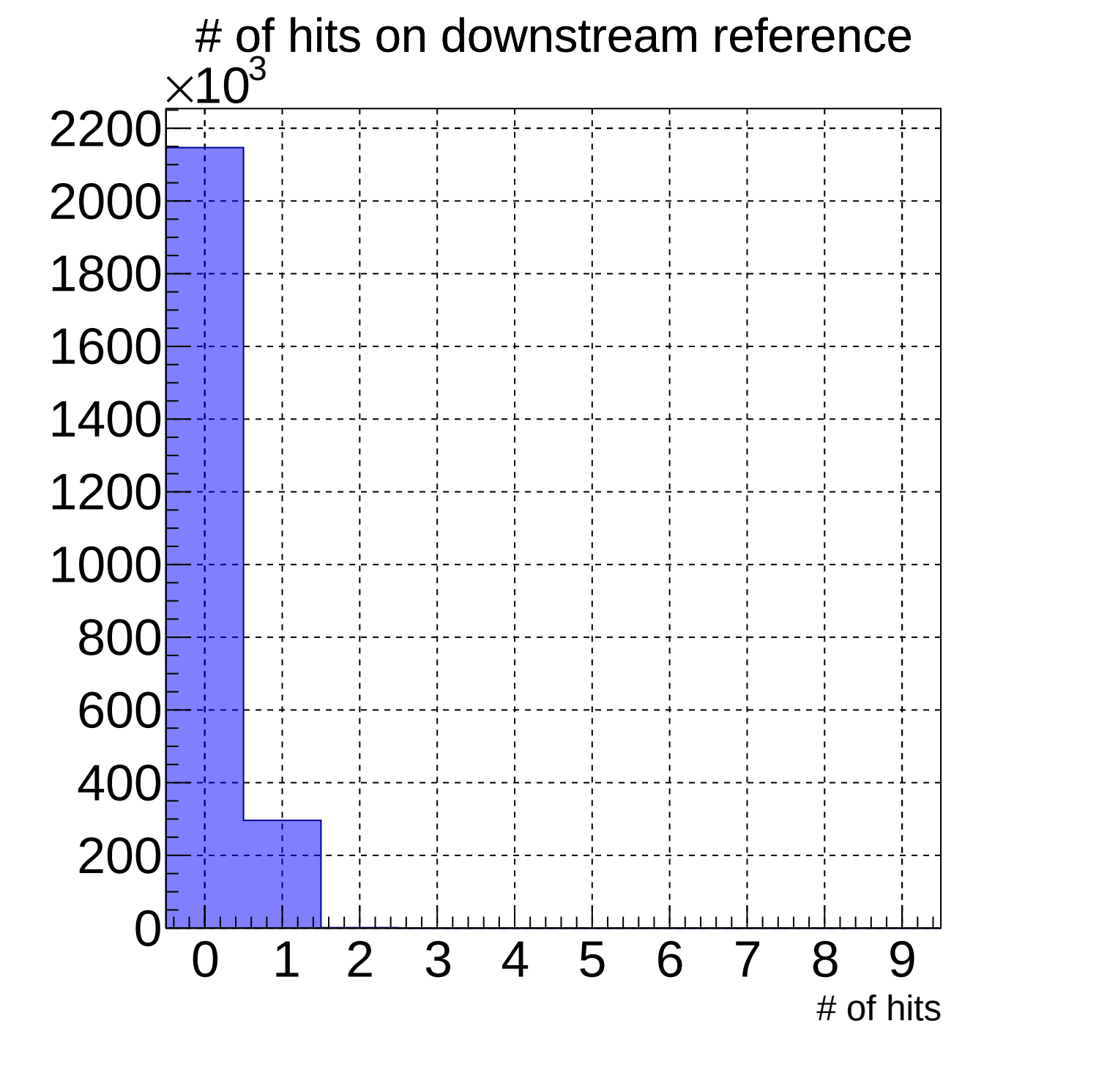

tot of upstream reference
×10^3
100
80
60
40
20
0
0
5
10
15
20
25
30
35
40
45
50
tot [ns]

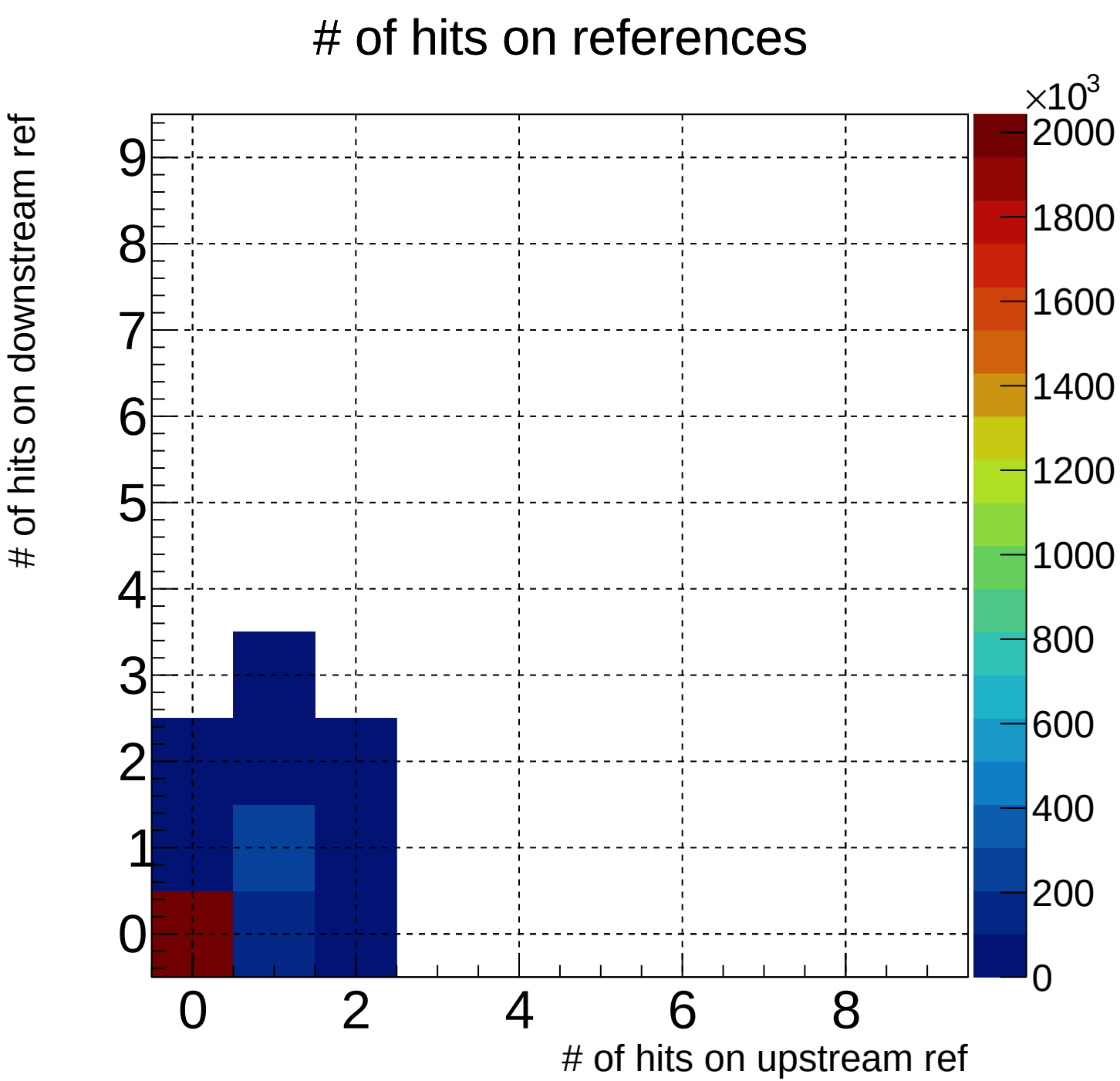

tot of downstream reference
×10^3
180
160
140
120
100
80
60
40
20
0
0
5
10
15
20
25
30
35
40
45
50
tot [ns]

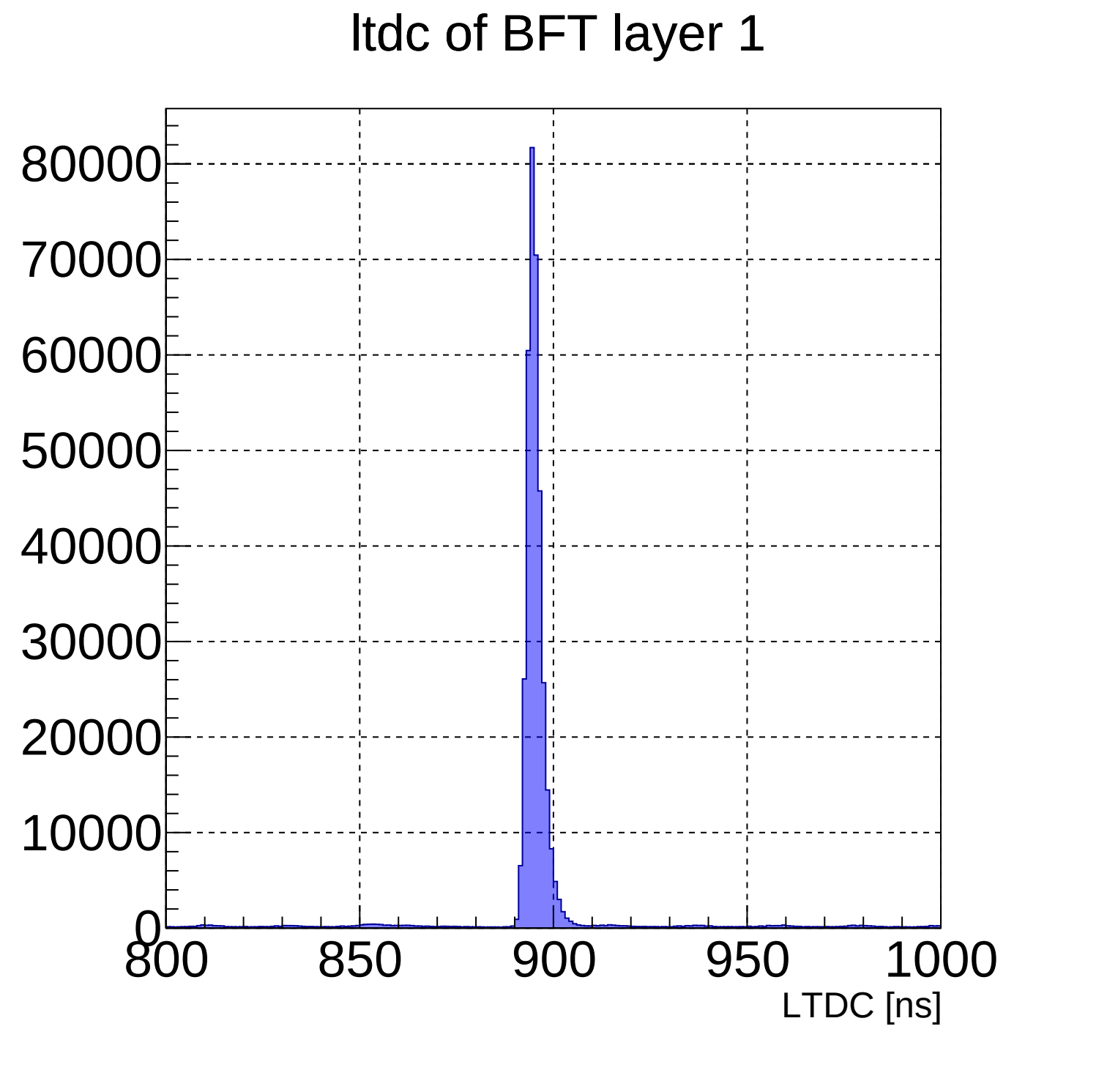

ltdc vs tot of upstream reference
tot [ns]
50
45
40
35
30
25
20
15
10
5
0
1000
1020
1040
1060
1080
1100
ltdc [ns]
7000
6000
5000
4000
3000
2000
1000
0

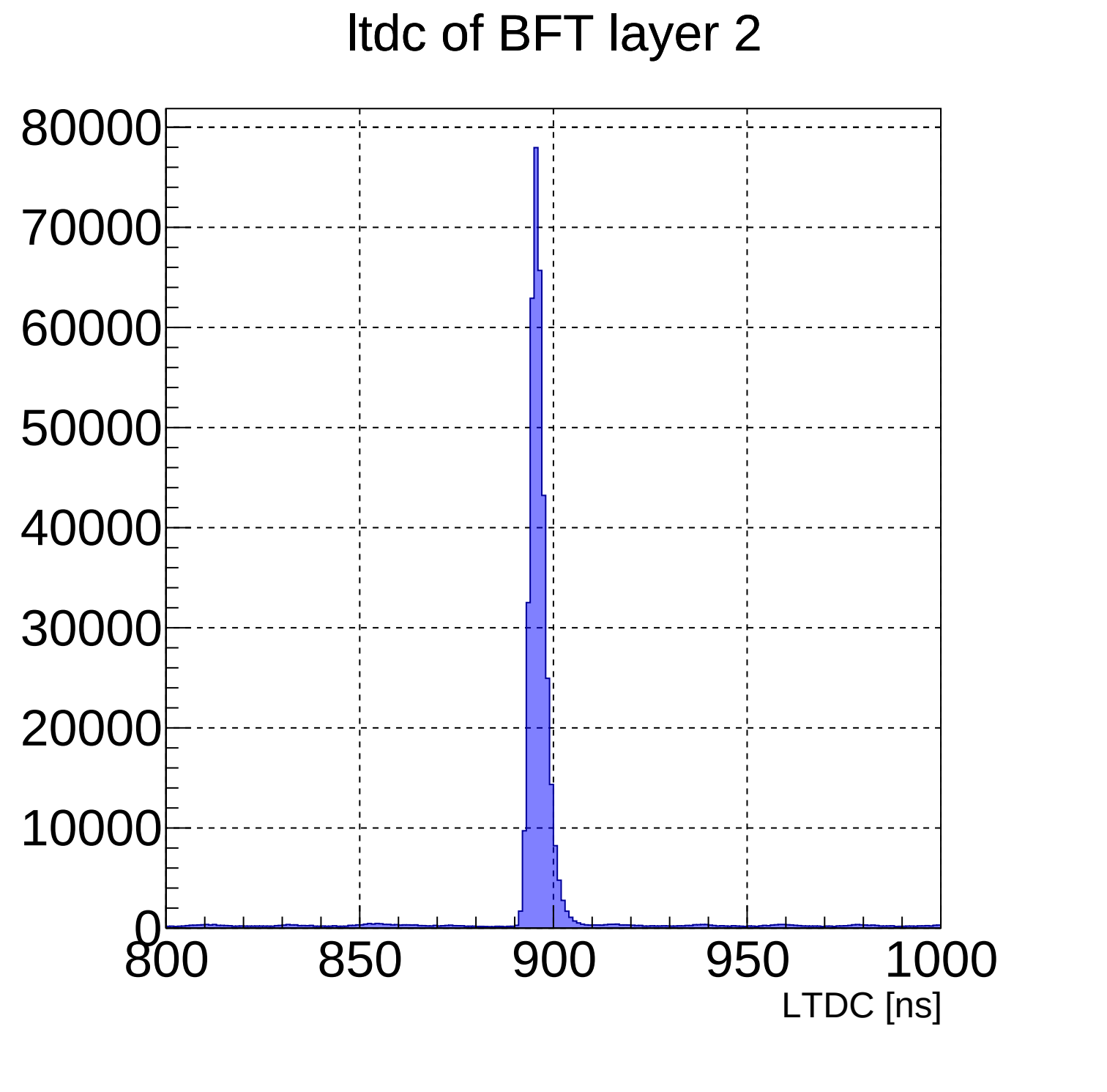

ltdc vs tot of downstream reference
tot [ns]
50
45
40
35
30
25
20
15
10
5
0
1000
1020
1040
1060
1080
1100
ltdc [ns]
16000
14000
12000
10000
8000
6000
4000
2000
0

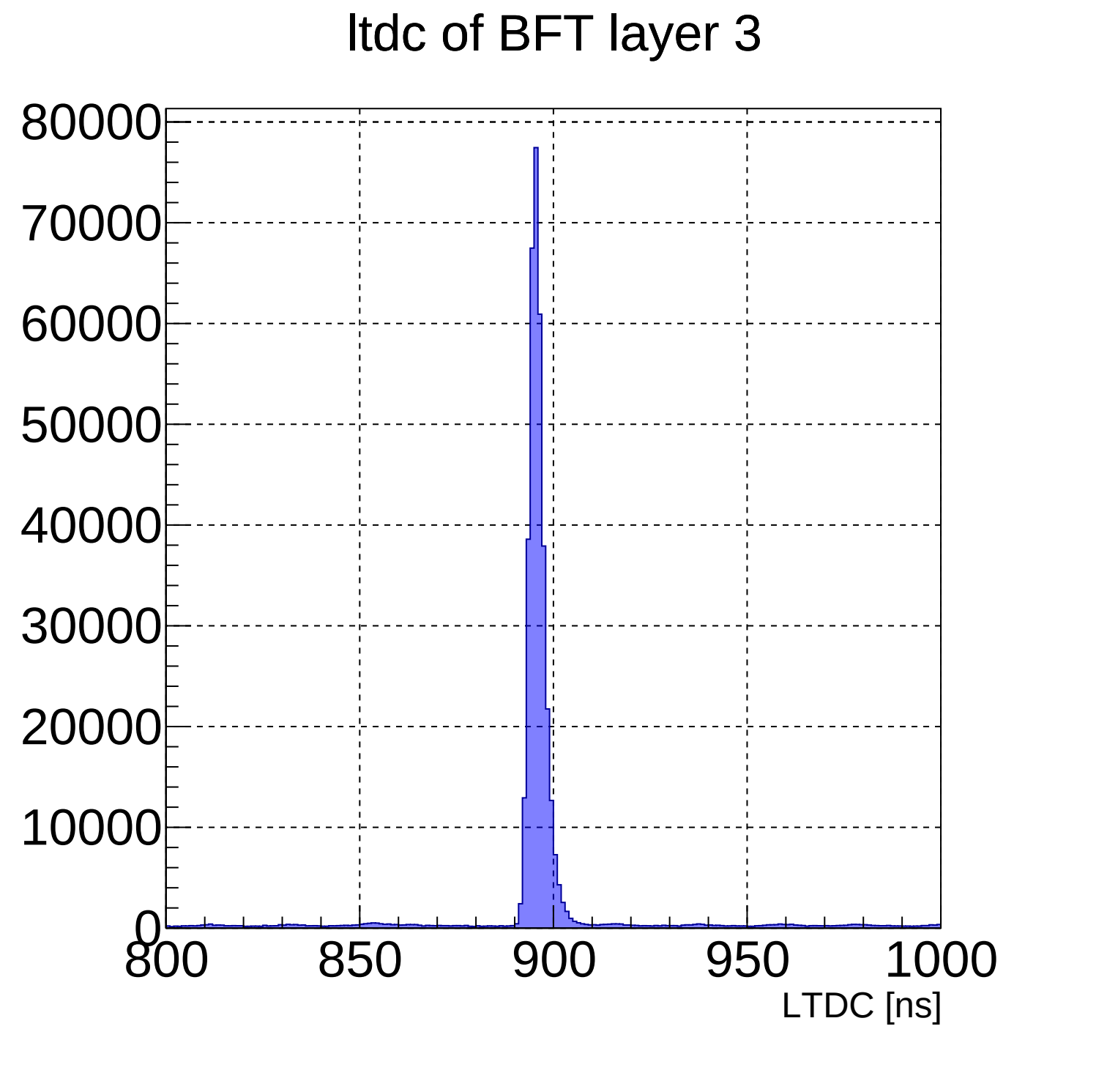

# of hits on upstream reference
×10^3
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
1
2
3
4
5
6
7
8
9
# of hits

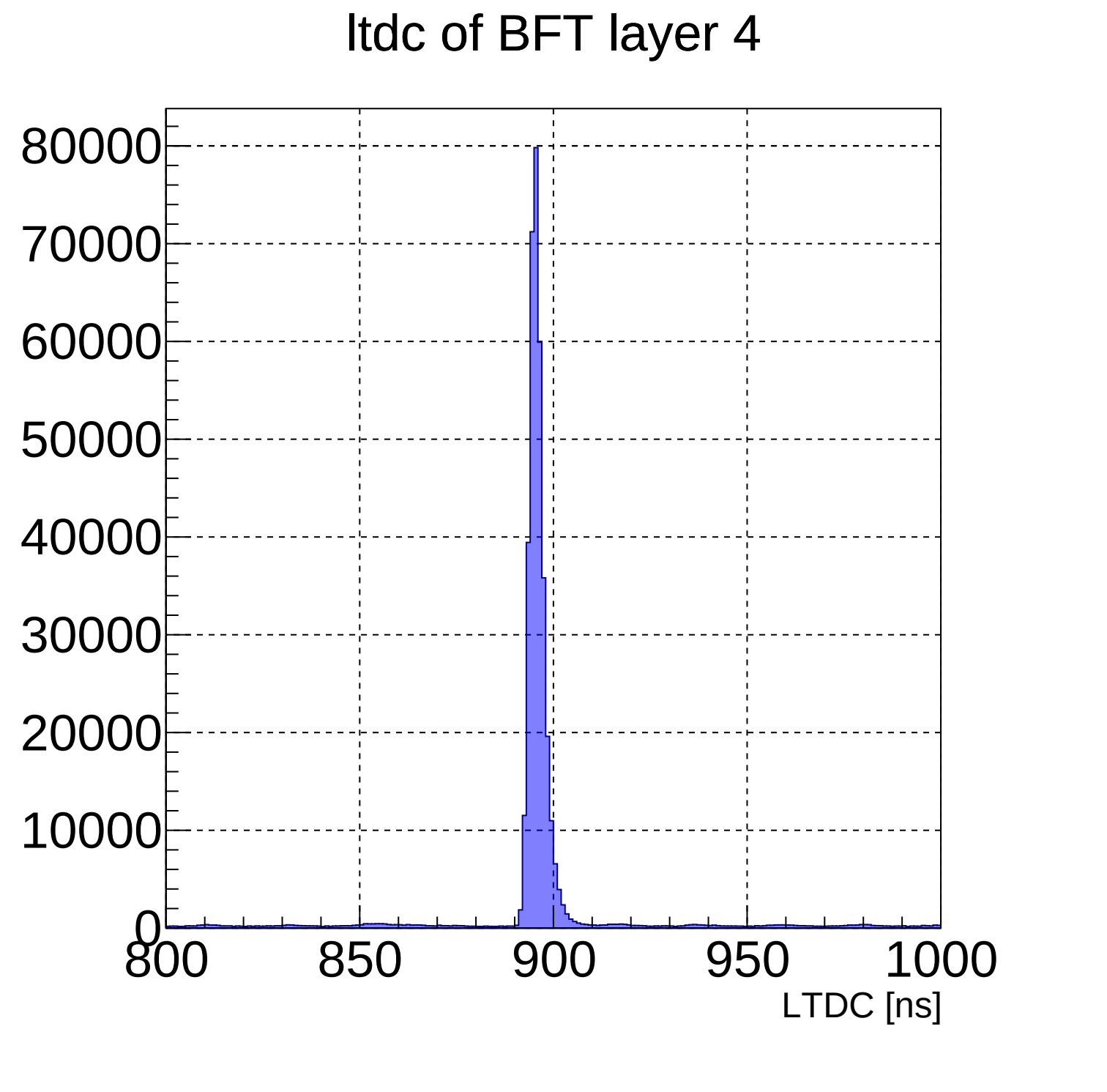

# of hits on downstream reference
×10^3
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0 1 2 3 4 5 6 7 8 9
# of hits

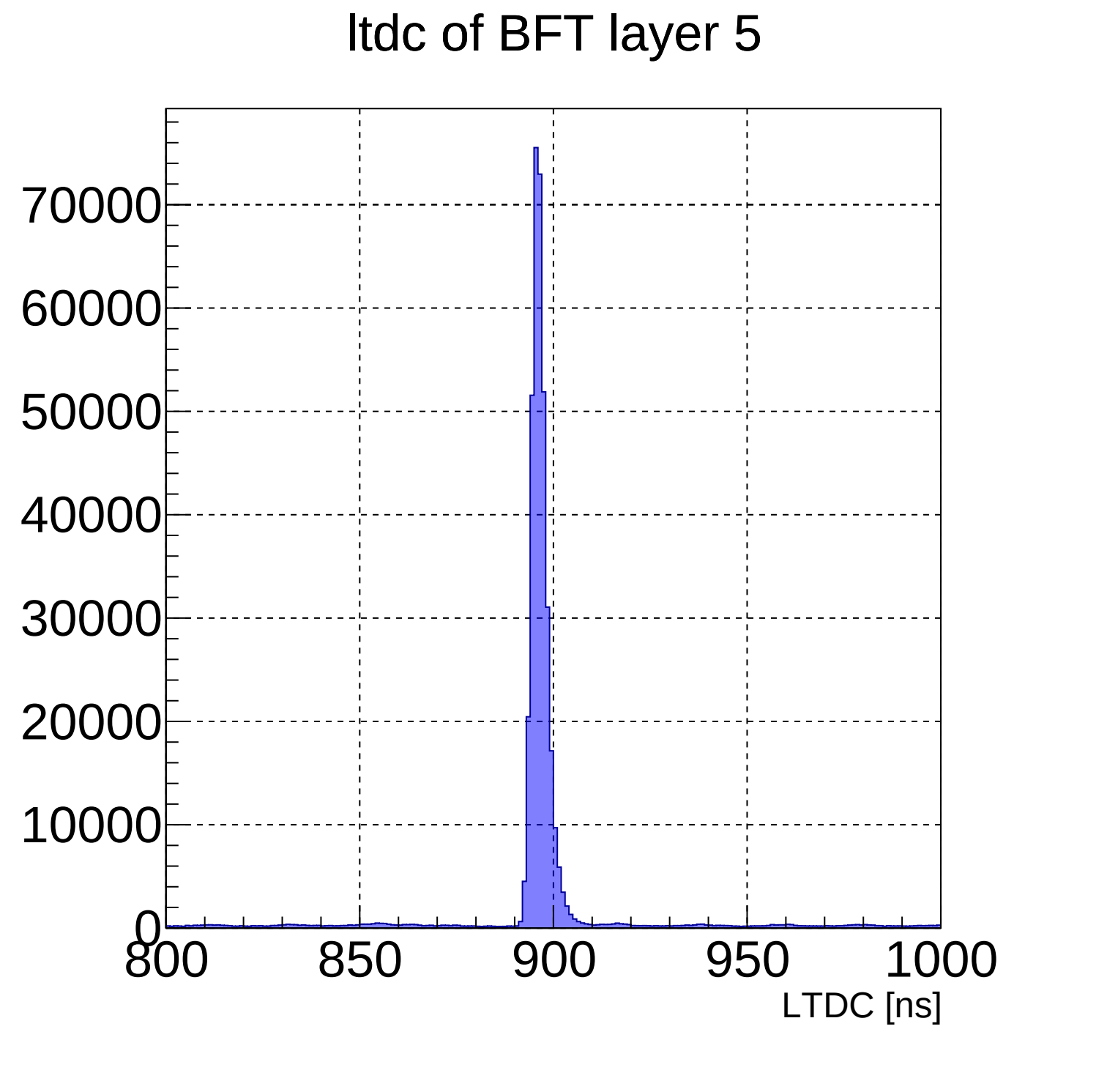

# of hits on references
# of hits on downstream ref
# of hits on upstream ref
×10^3
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
1
2
3
4
5
6
7
8
9
0
2
4
6
8

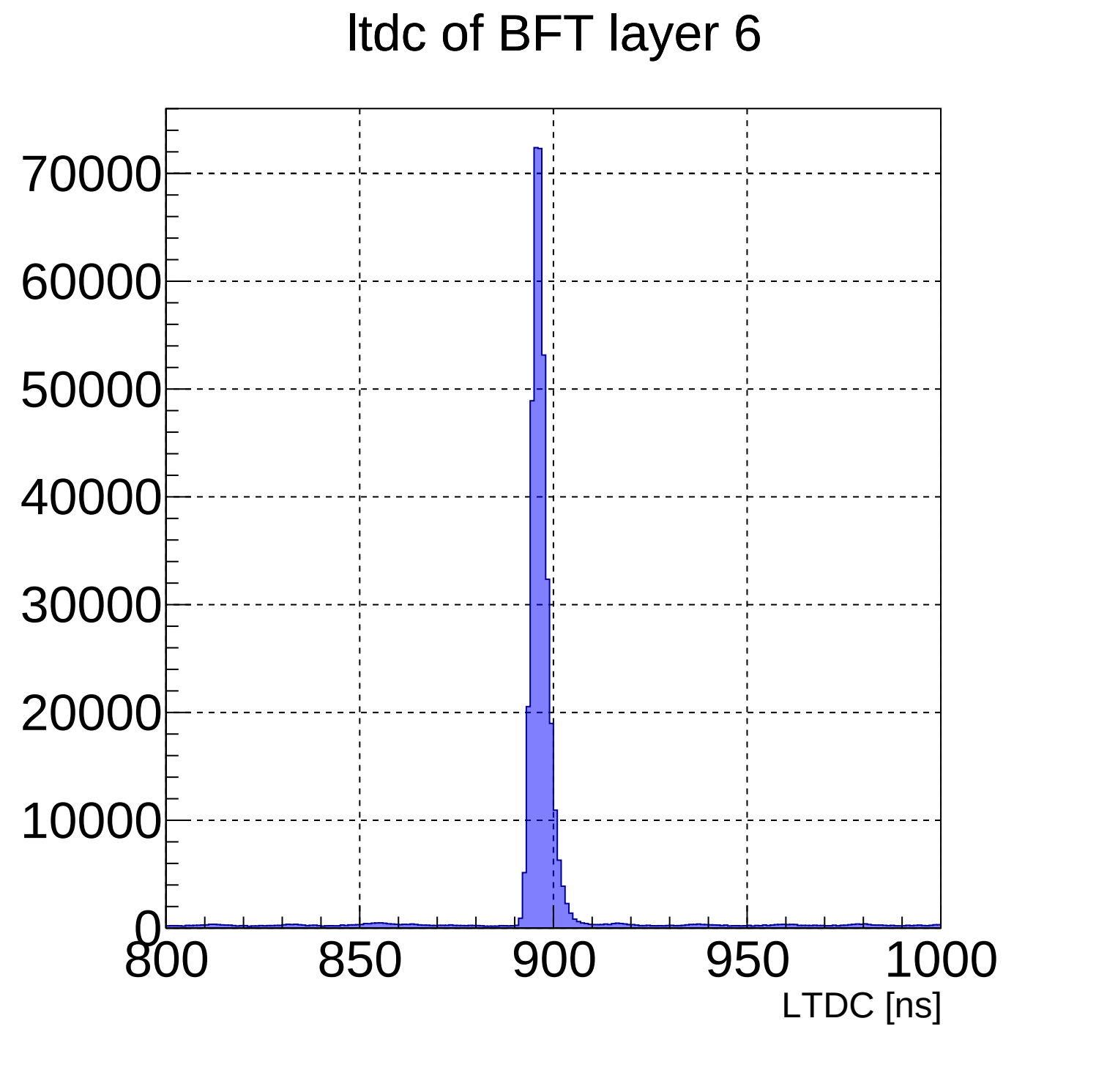

ltdc of BFT layer 1
80000
70000
60000
50000
40000
30000
20000
10000
0
800
850
900
950
1000
LTDC [ns]

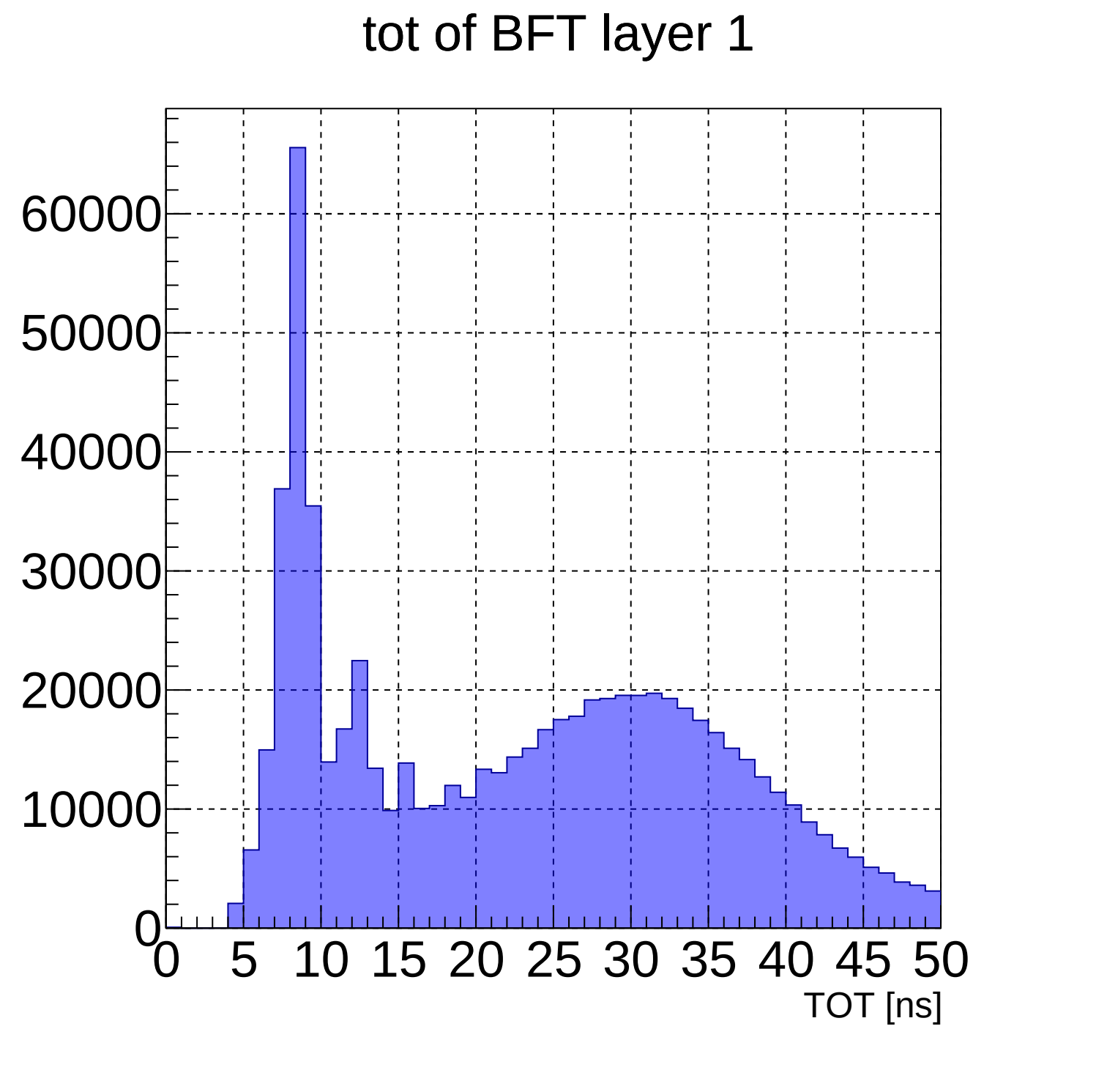

ltdc of BFT layer 2
80000
70000
60000
50000
40000
30000
20000
10000
0
800
850
900
950
1000
LTDC [ns]

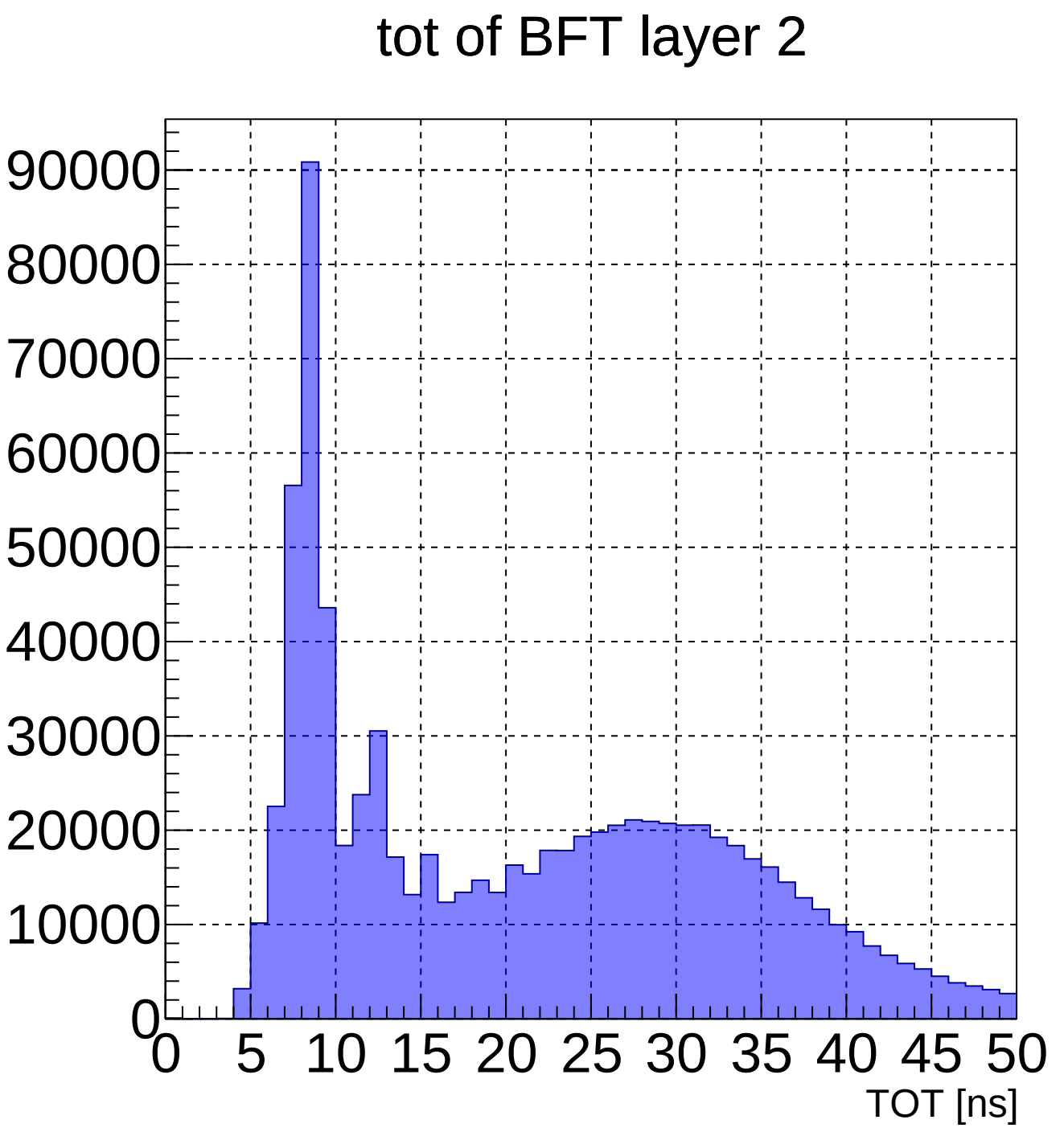

ltdc of BFT layer 3
80000
70000
60000
50000
40000
30000
20000
10000
0
800
850
900
950
1000
LTDC [ns]

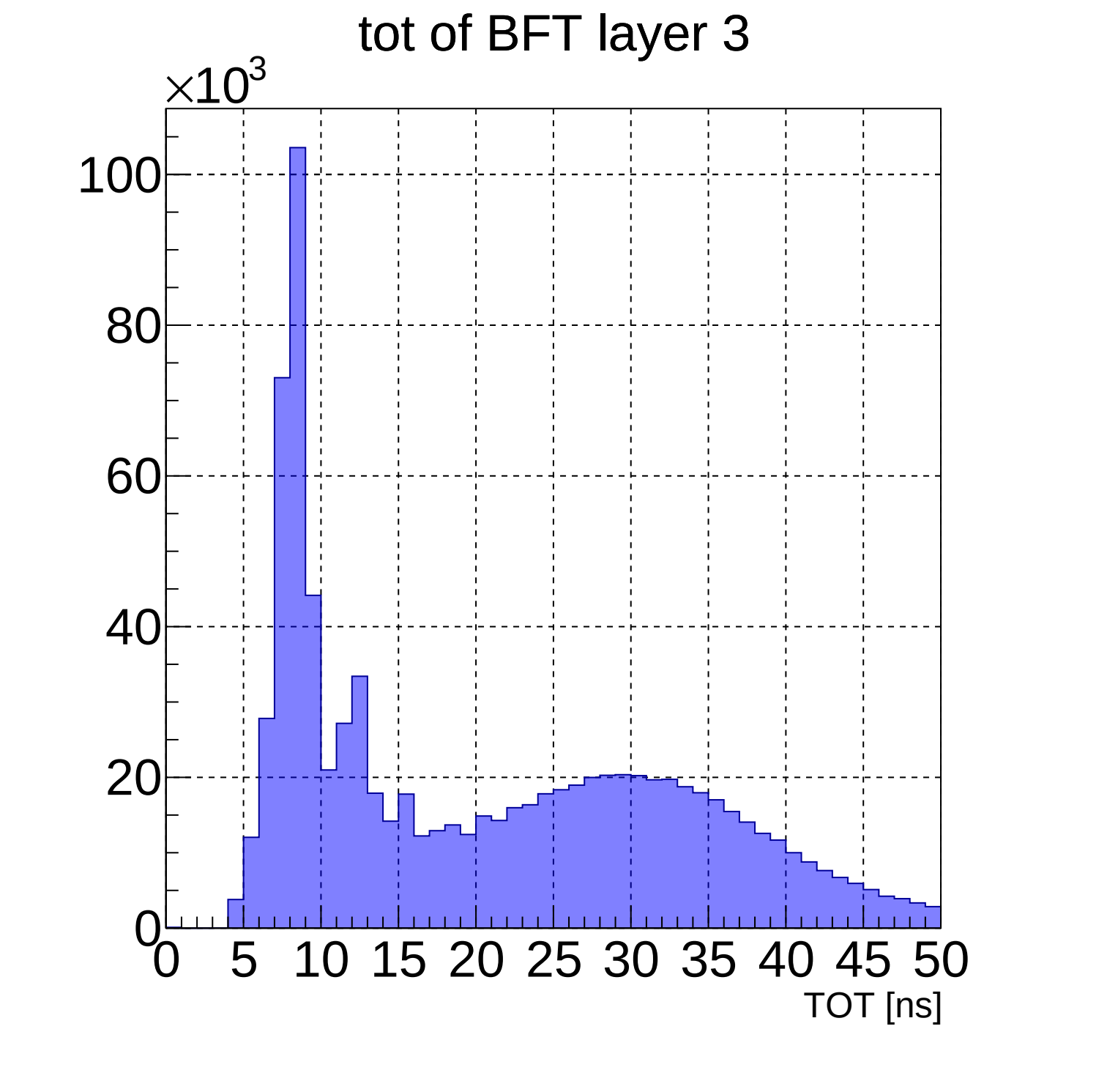

ltdc of BFT layer 4
80000
70000
60000
50000
40000
30000
20000
10000
0
800
850
900
950
1000
LTDC [ns]

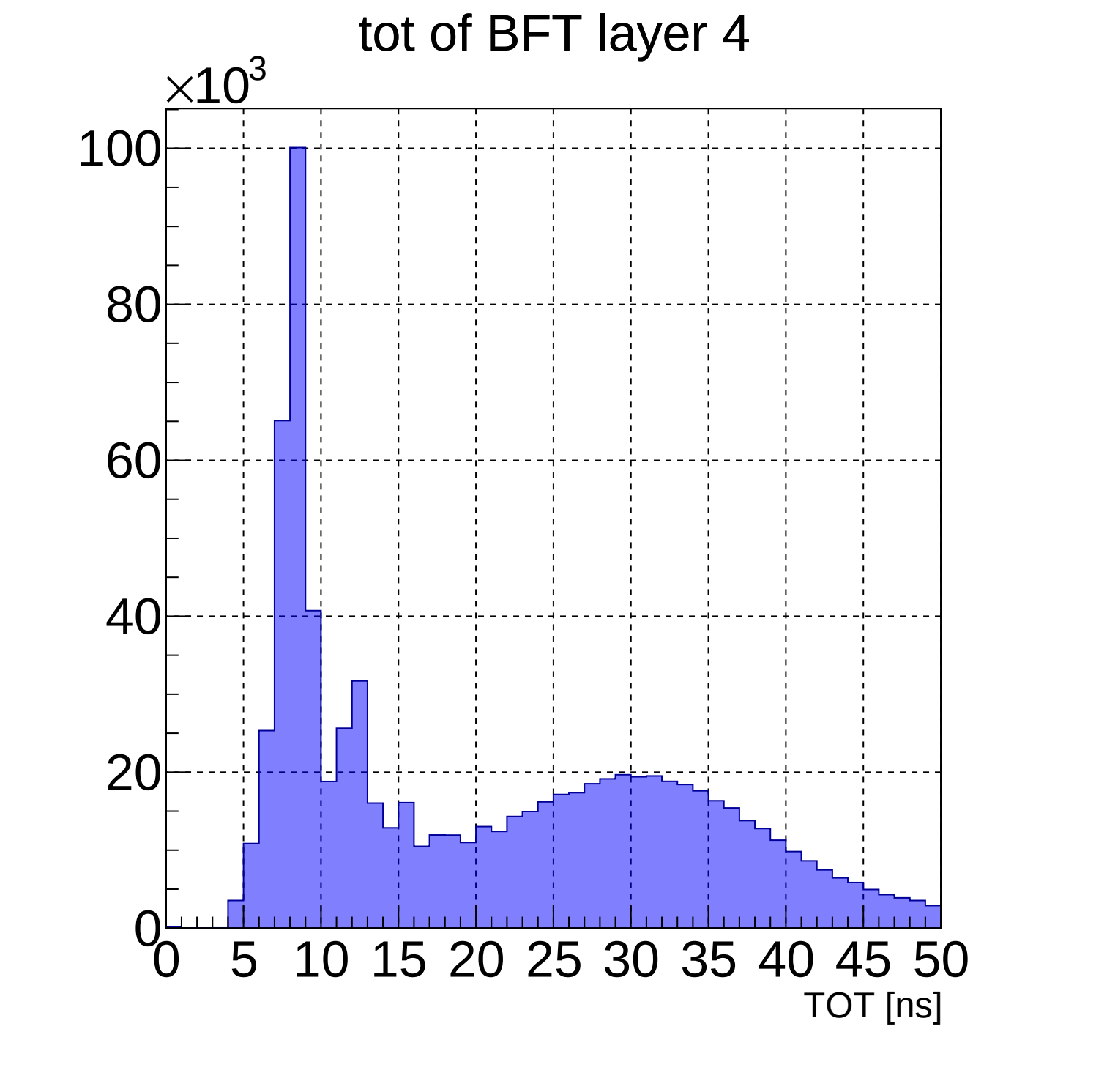

ltdc of BFT layer 5
70000
60000
50000
40000
30000
20000
10000
0
800
850
900
950
1000
LTDC [ns]

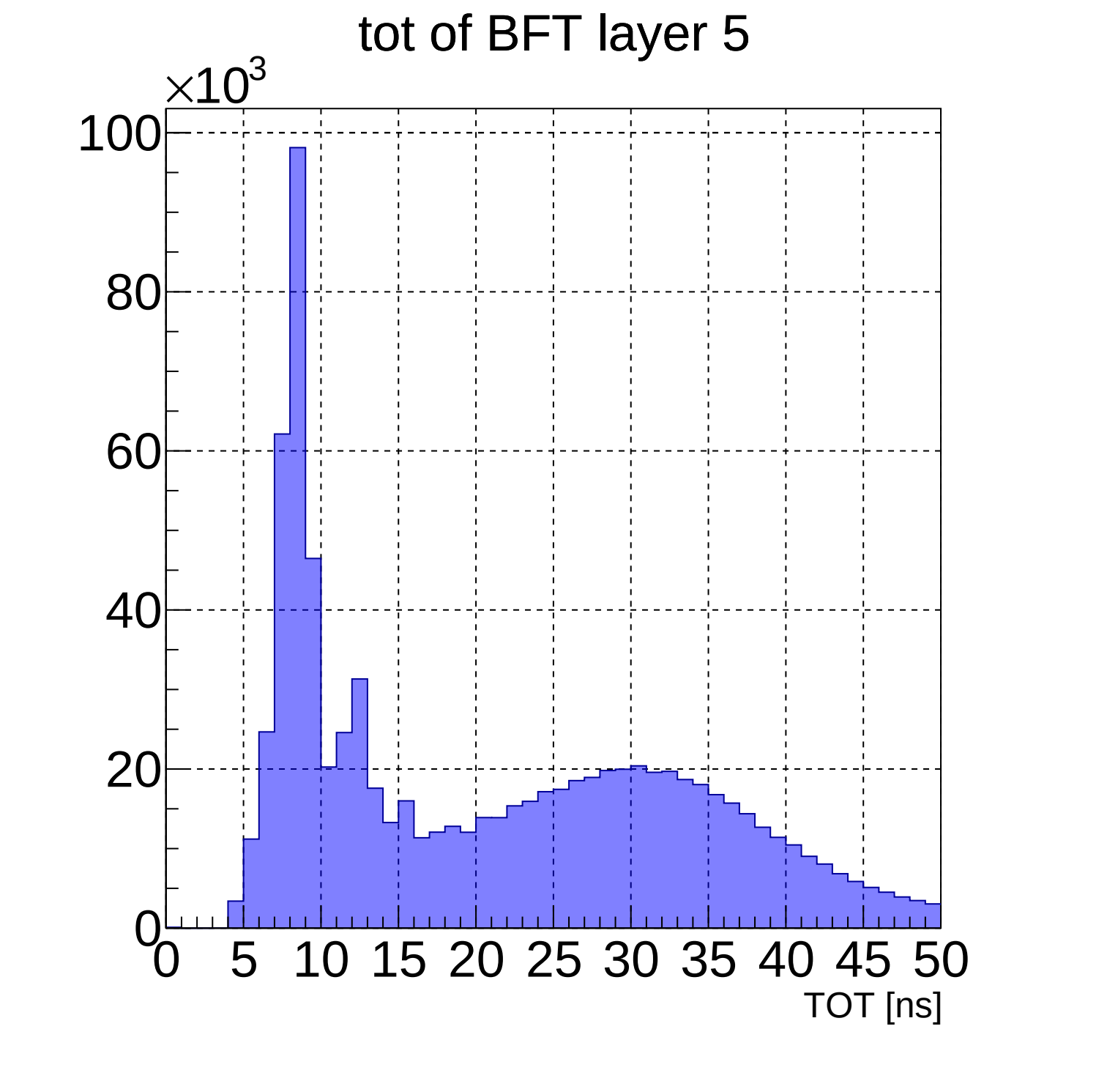

ltdc of BFT layer 6
70000
60000
50000
40000
30000
20000
10000
0
800
850
900
950
1000
LTDC [ns]

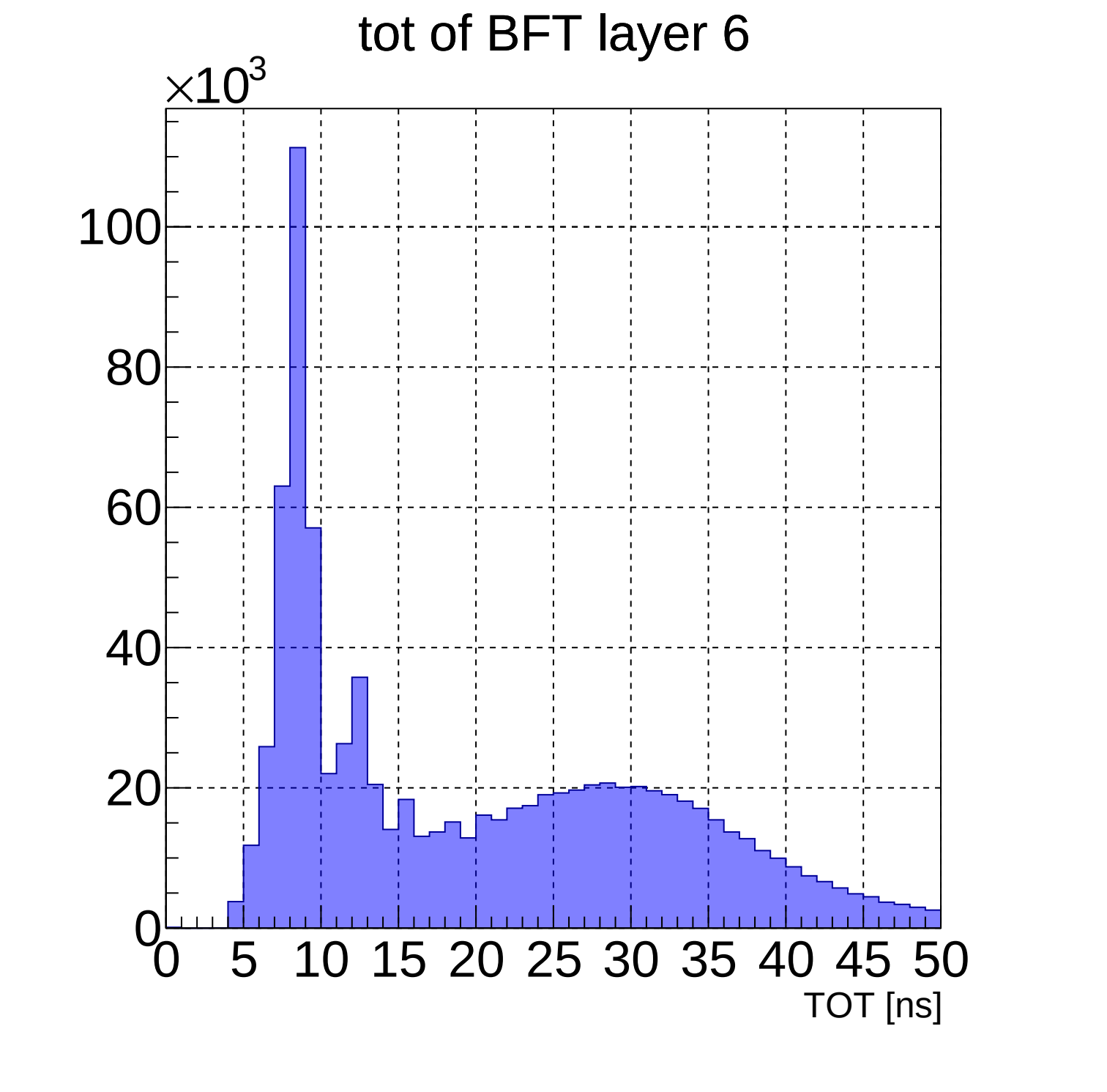

tot of BFT layer 1
60000
50000
40000
30000
20000
10000
0
0
5
10
15
20
25
30
35
40
45
50
TOT [ns]

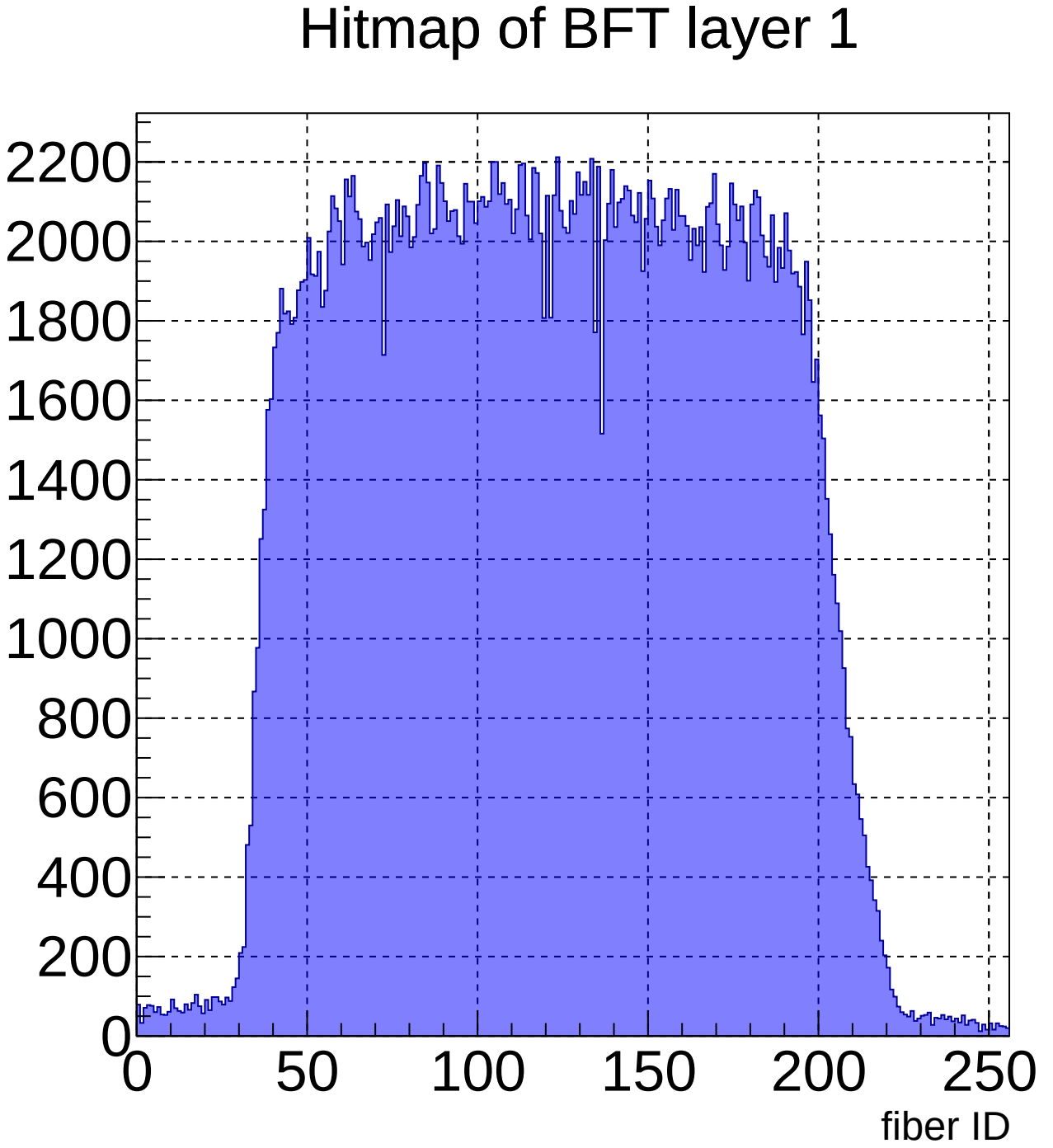

tot of BFT layer 2
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
0
5
10
15
20
25
30
35
40
45
50
TOT [ns]

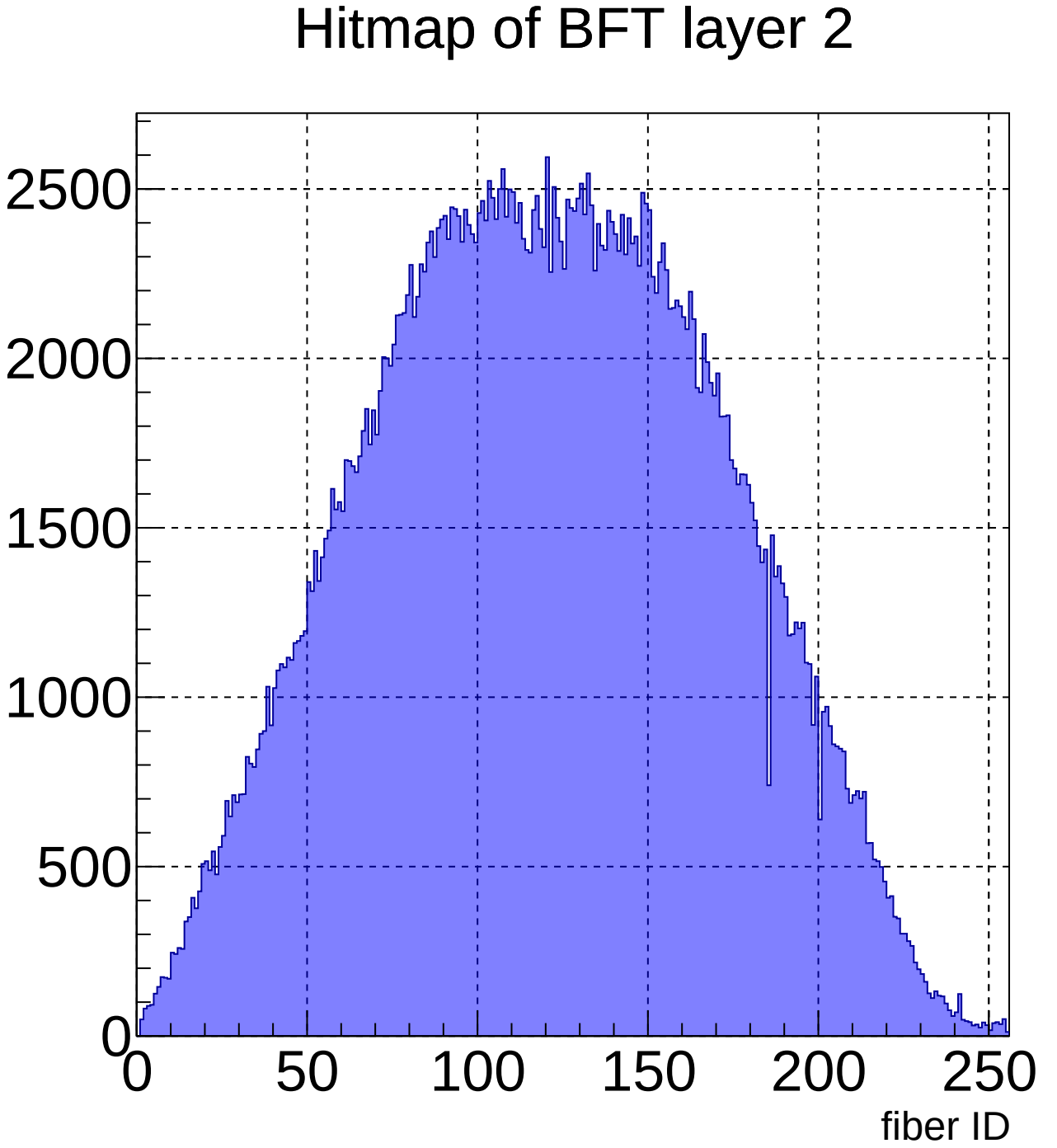

tot of BFT layer 3
×10^3
100
80
60
40
20
0
0
5
10
15
20
25
30
35
40
45
50
TOT [ns]

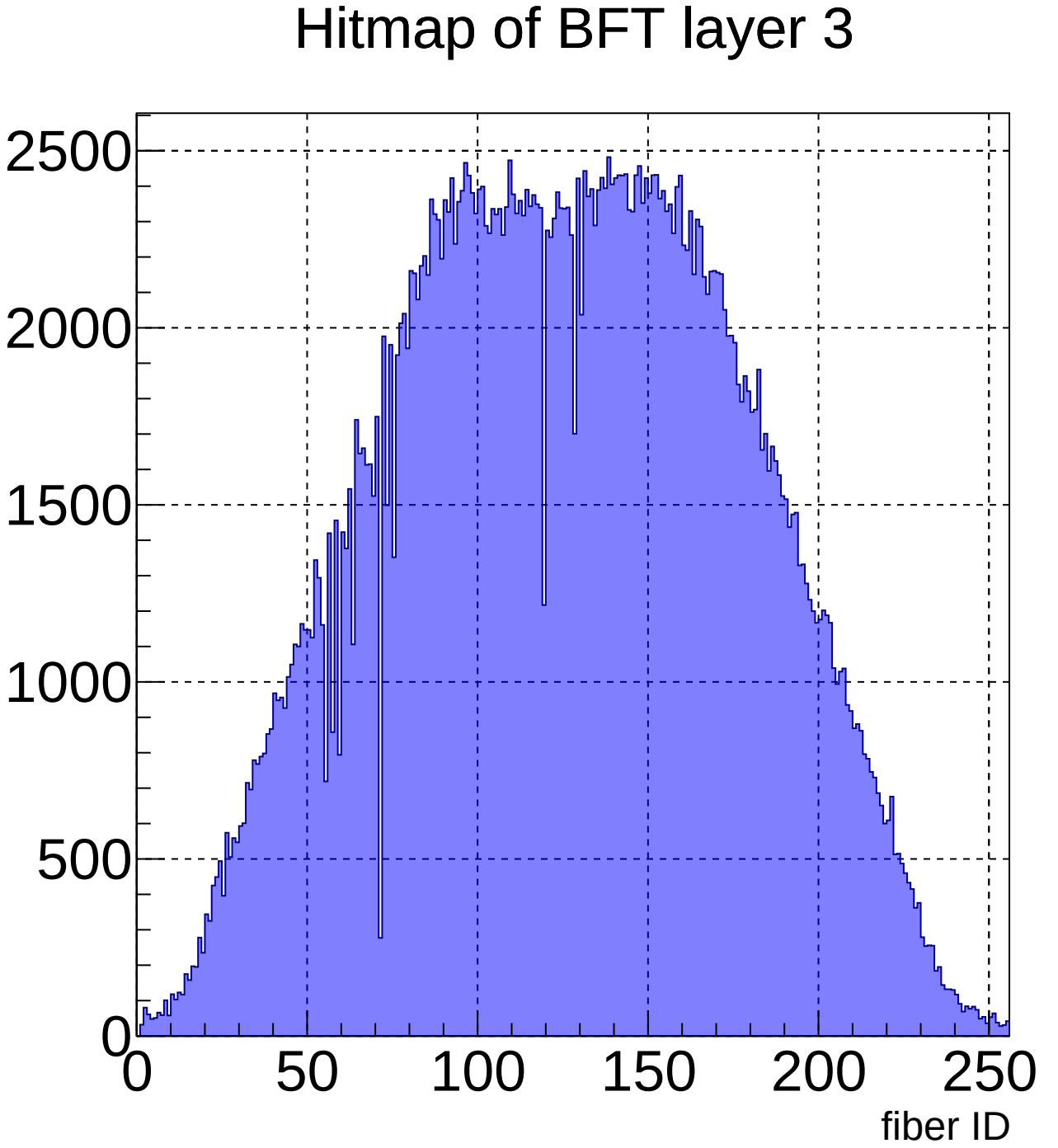

tot of BFT layer 4
×10^3
100
80
60
40
20
0
0
5
10
15
20
25
30
35
40
45
50
TOT [ns]

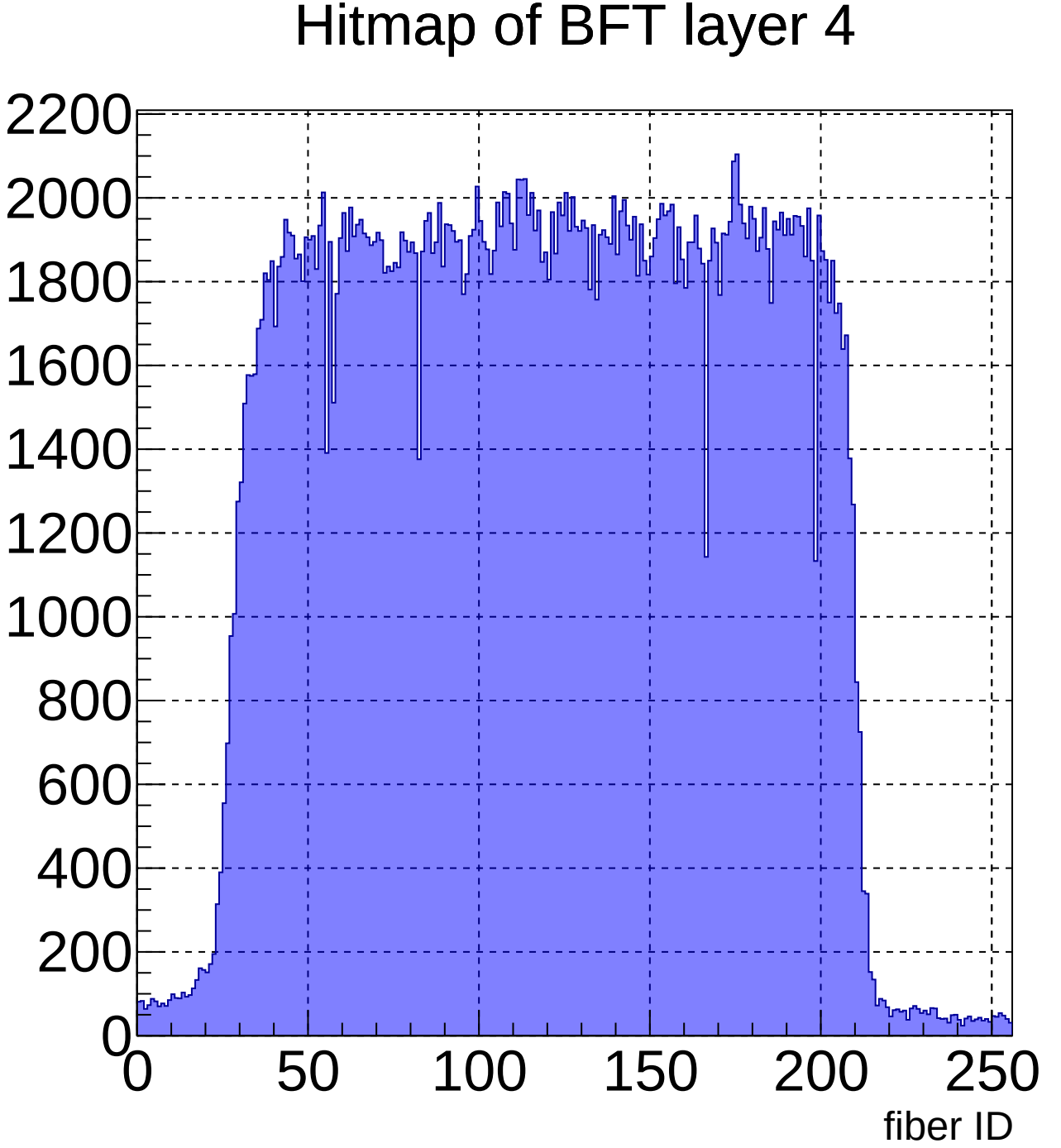

tot of BFT layer 5
×10^3
100
80
60
40
20
0
0
5
10
15
20
25
30
35
40
45
50
TOT [ns]

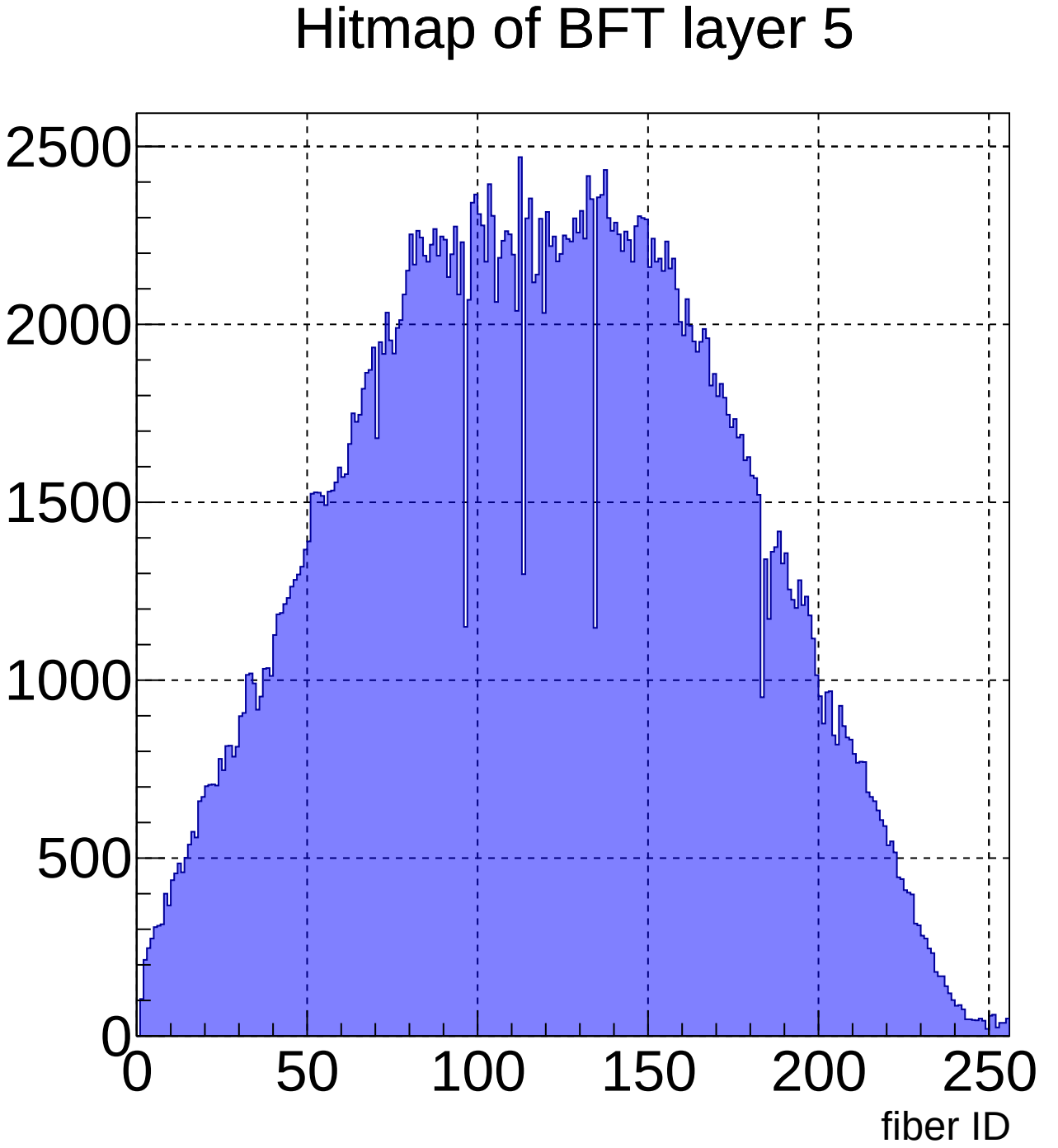

tot of BFT layer 6
×10^3
100
80
60
40
20
0
0
5
10
15
20
25
30
35
40
45
50
TOT [ns]

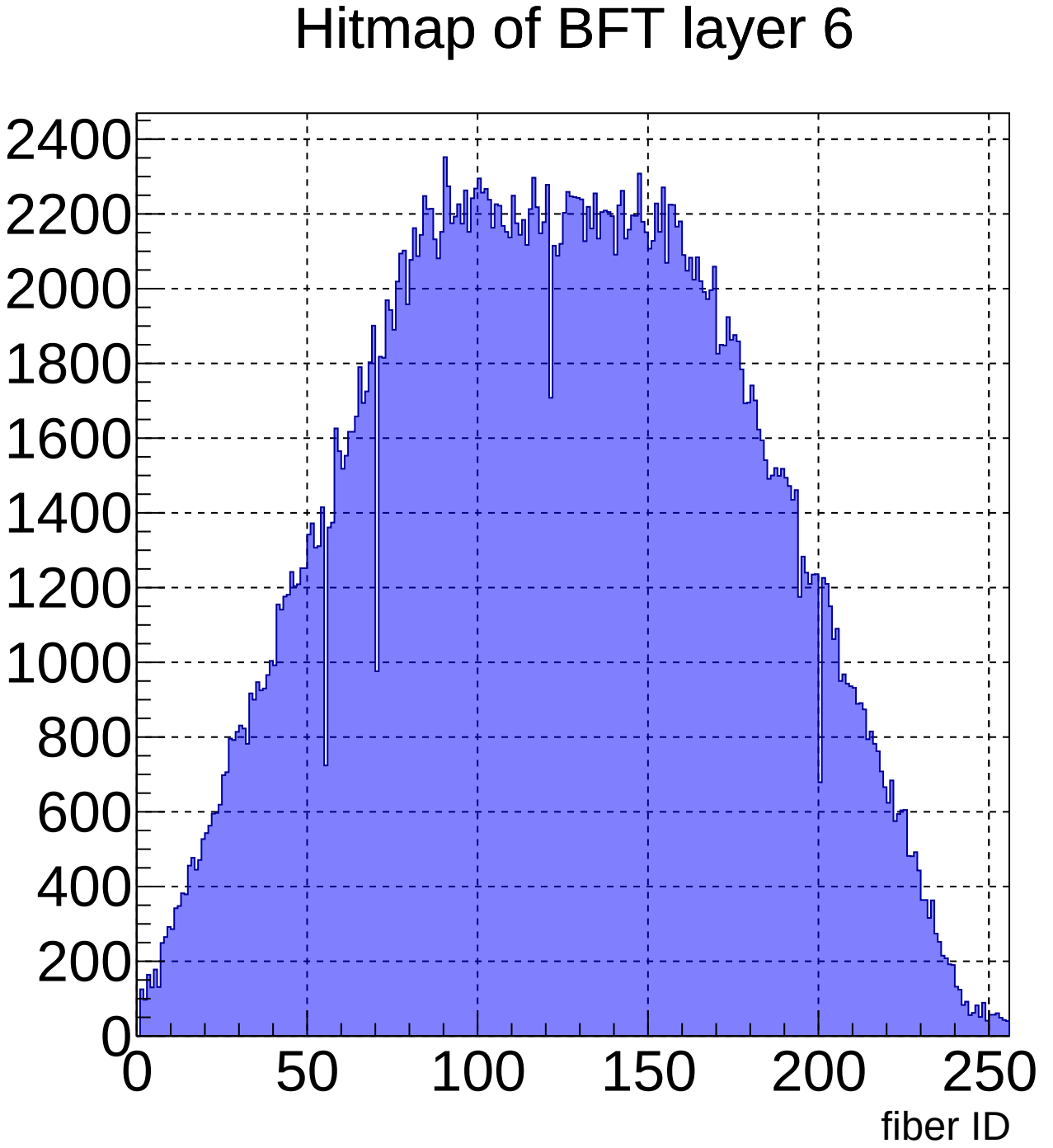

Hitmap of BFT layer 1
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
50
100
150
200
250
fiber ID

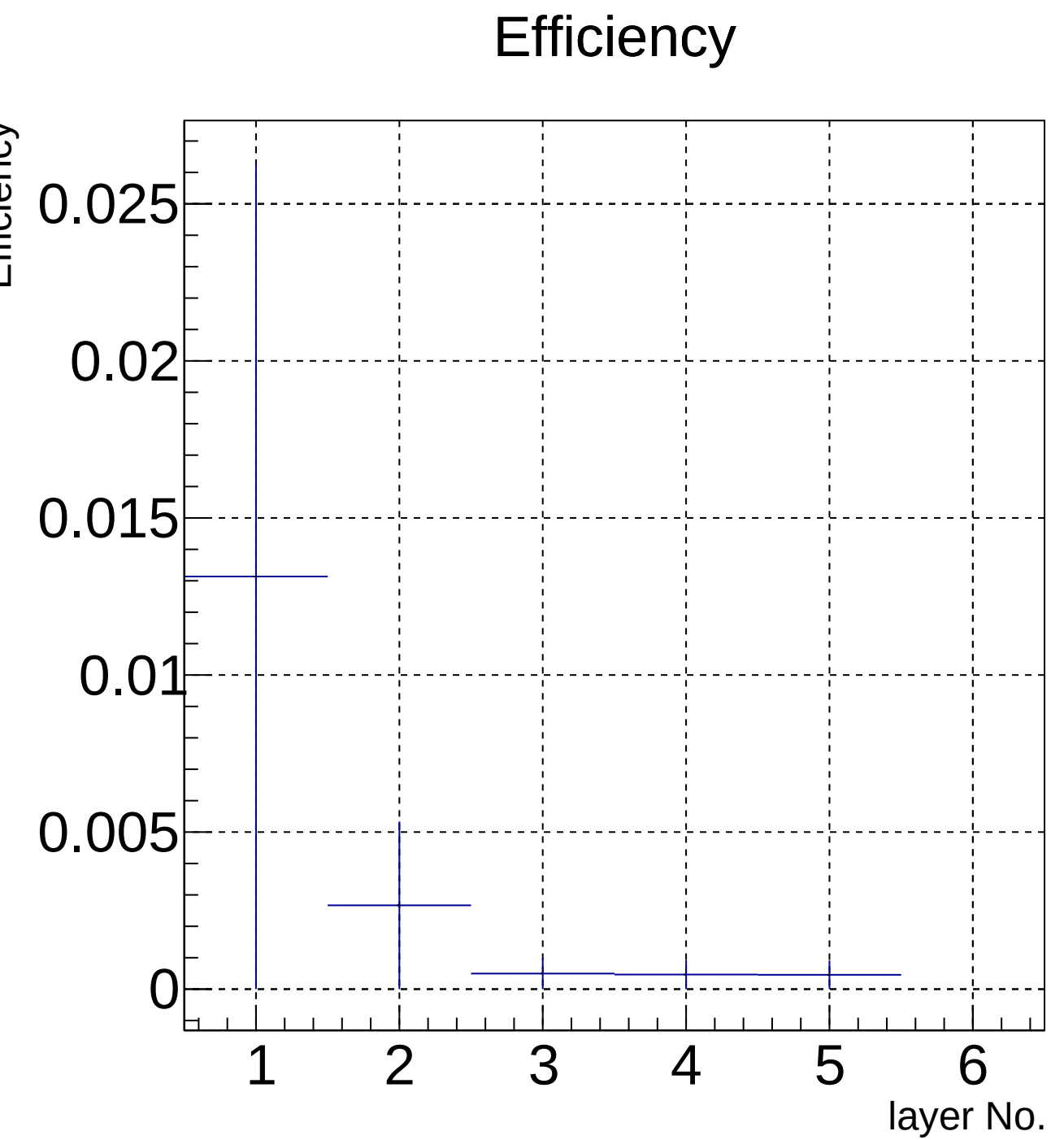

Hitmap of BFT layer 2
2500
2000
1500
1000
500
0
0
50
100
150
200
250
fiber ID


Hitmap of BFT layer 3
2500
2000
1500
1000
500
0
0
50
100
150
200
250
fiber ID


Hitmap of BFT layer 4
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
50
100
150
200
250
fiber ID


Hitmap of BFT layer 5
2500
2000
1500
1000
500
0
0
50
100
150
200
250
fiber ID


Hitmap of BFT layer 6
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
50
100
150
200
250
fiber ID


Efficiency
Efficiency
0.025
0.02
0.015
0.01
0.005
0
1
2
3
4
5
6
layer No.