Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 0.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 0.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 0.2)
Out-of-time fraction
Delay [ns]
Threshold
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
2000
3000
4000
5000
6000
7000
8000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 0.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 0.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 0.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 0.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 0.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 0.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 0.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 1.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 1.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 1.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 1.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 1.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 1.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 1.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 1.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 1.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 1.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 2.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 2.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 2.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 2.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 2.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 2.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 2.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 2.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 2.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 2.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 3.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 3.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 3.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 3.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 3.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 3.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 3.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 3.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 3.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 3.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 4.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 4.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 4.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 4.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 4.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 4.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 4.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 4.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 4.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 4.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 5.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 0.0,ToF Smearing = 5.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 0.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 0.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 0.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 0.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 0.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
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30
40
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8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 0.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 0.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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10
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8000
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Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 0.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 0.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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8000
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4000
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Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 0.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 1.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
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8000
7000
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4000
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Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 1.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 1.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
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8000
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4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 1.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 1.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
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8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 1.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 1.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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10
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8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 1.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 1.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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10
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8000
7000
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5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 1.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 2.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 2.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 2.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 2.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 2.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 2.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 2.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 2.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 2.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 2.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 3.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 3.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 3.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
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8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 3.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 3.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
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8000
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6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 3.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 3.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
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30
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8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 3.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 3.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 3.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 4.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 4.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 4.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
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8000
7000
6000
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3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 4.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
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30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 4.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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6000
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2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 4.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 4.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
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8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 4.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 4.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 4.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 5.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 100.0,ToF Smearing = 5.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 0.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
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8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 0.0)
Threshold
8000
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6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 0.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
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Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 0.2)
Threshold
8000
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3000
2000
0
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40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 0.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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0.4
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Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 0.4)
Threshold
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0
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40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 0.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 0.6)
Threshold
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40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 0.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 0.8)
Threshold
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Delay [ns]
1.0
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0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 1.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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0.4
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Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 1.0)
Threshold
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Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
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Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 1.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 1.2)
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Delay [ns]
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0.4
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 1.4)
Out-of-time fraction
Delay [ns]
Threshold
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Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 1.4)
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Delay [ns]
1.0
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0.6
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 1.6)
Out-of-time fraction
Delay [ns]
Threshold
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Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 1.6)
Threshold
8000
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Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 1.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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0.4
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Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 1.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 2.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 2.0)
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 2.2)
Out-of-time fraction
Delay [ns]
Threshold
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Threshold curves
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Out-of-time fraction
Delay [ns]
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Threshold curves
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Out-of-time fraction
Delay [ns]
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Threshold curves
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Out-of-time fraction
Delay [ns]
Threshold
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Threshold curves
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Threshold curves
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Out-of-time fraction
Delay [ns]
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Threshold curves
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Out-of-time fraction
Delay [ns]
Threshold
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Threshold curves
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Threshold curves
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Out-of-time fraction
Delay [ns]
Threshold
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Threshold curves
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Out-of-time fraction
Delay [ns]
Threshold
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Threshold curves
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Delay [ns]
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 4.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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Delay [ns]
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 4.2)
Out-of-time fraction
Delay [ns]
Threshold
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Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 4.4)
Out-of-time fraction
Delay [ns]
Threshold
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0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 4.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 4.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 4.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 4.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 5.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 200.0,ToF Smearing = 5.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 0.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 0.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 0.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 0.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 0.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 0.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 0.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 0.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 0.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 0.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 1.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 1.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 1.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 1.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 1.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 1.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 1.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 1.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 1.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 1.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 2.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 2.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 2.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 2.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 2.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 2.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 2.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 2.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 2.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 2.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 3.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 3.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 3.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 3.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 3.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 3.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 3.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 3.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 3.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 3.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 4.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 4.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 4.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 4.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 4.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 4.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 4.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 4.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 4.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 4.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 5.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 300.0,ToF Smearing = 5.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 0.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 0.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 0.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 0.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 0.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 0.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 0.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 0.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 0.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 0.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 1.0)
Out-of-time fraction
Delay [ns]
Threshold
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
2000
3000
4000
5000
6000
7000
8000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 1.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 1.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 1.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 1.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
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8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 1.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 1.6)
Out-of-time fraction
Delay [ns]
Threshold
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
2000
3000
4000
5000
6000
7000
8000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 1.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 1.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 1.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 2.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 2.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 2.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 2.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 2.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 2.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 2.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 2.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 2.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 2.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 3.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 3.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 3.2)
Out-of-time fraction
Delay [ns]
Threshold
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
2000
3000
4000
5000
6000
7000
8000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 3.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 3.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 3.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 3.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 3.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 3.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 3.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 4.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 4.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 4.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 4.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 4.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 4.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 4.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 4.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 4.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 4.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 5.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 400.0,ToF Smearing = 5.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 0.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 0.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 0.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
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8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 0.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 0.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
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8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 0.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 0.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
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8000
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3000
2000

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 0.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
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30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 0.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
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8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 0.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 1.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
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8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 1.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 1.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
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8000
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5000
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3000
2000

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 1.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 1.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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10
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8000
7000
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Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 1.4)
Threshold
8000
7000
6000
5000
4000
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2000
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30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 1.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
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2000

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 1.6)
Threshold
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6000
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2000
0
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40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 1.8)
Out-of-time fraction
Delay [ns]
Threshold
0.0
0.2
0.4
0.6
0.8
1.0
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3000
4000
5000
6000
7000
8000

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 1.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 2.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
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8000
7000
6000
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2000

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 2.0)
Threshold
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40
Delay [ns]
1.0
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0.6
0.4
0.2
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 2.2)
Out-of-time fraction
Delay [ns]
Threshold
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0.4
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Threshold curves
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40
Delay [ns]
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0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 2.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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0.4
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Threshold curves
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40
Delay [ns]
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0.8
0.6
0.4
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Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 2.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
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Threshold curves
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8000
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3000
2000
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40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 2.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
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Threshold curves
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Threshold
8000
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Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 3.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
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Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 3.0)
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8000
7000
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5000
4000
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2000
0
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Delay [ns]
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0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 3.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 3.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
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40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 3.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
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Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 3.4)
Threshold
8000
7000
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5000
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0
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Delay [ns]
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0.8
0.6
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0.2
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 3.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
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Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 3.6)
Threshold
8000
7000
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0
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Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 3.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 3.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 4.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 4.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 4.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 4.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 4.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 4.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 4.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 4.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 4.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 4.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 5.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 500.0,ToF Smearing = 5.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 0.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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2000

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 0.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 0.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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2000

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 0.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 0.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 0.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 0.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 0.6)
Threshold
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5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 0.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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0.6
0.4
0.2
0.0
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Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 0.8)
Threshold
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40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 1.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
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Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 1.0)
Threshold
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Delay [ns]
Out-of-time fraction
1.0
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Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 1.2)
Out-of-time fraction
Delay [ns]
Threshold
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Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 1.2)
Threshold
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Delay [ns]
1.0
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0.4
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0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 1.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 1.4)
Threshold
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Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 1.6)
Out-of-time fraction
Delay [ns]
Threshold
0.0
0.2
0.4
0.6
0.8
1.0
0
10
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40
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2000
3000
4000
5000
6000
7000
8000

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 1.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 1.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
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30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 1.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 2.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
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2000

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 2.0)
Threshold
8000
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Delay [ns]
Out-of-time fraction
1.0
0.8
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0.4
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Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 2.2)
Out-of-time fraction
Delay [ns]
Threshold
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Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 2.2)
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0.4
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 2.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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0.4
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(Threshold Smearing = 600.0,ToF Smearing = 2.4)
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Delay [ns]
1.0
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0.6
0.4
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 2.6)
Out-of-time fraction
Delay [ns]
Threshold
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(Threshold Smearing = 600.0,ToF Smearing = 2.6)
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Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 2.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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0.4
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(Threshold Smearing = 600.0,ToF Smearing = 2.8)
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6000
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0
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40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 3.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
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Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 3.0)
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Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 3.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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0.4
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Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 3.2)
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8000
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Delay [ns]
1.0
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 3.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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0.4
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(Threshold Smearing = 600.0,ToF Smearing = 3.4)
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Delay [ns]
1.0
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0.6
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 3.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 3.6)
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Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 3.8)
Out-of-time fraction
Delay [ns]
Threshold
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Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 3.8)
Threshold
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Delay [ns]
1.0
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 4.0)
Out-of-time fraction
Delay [ns]
Threshold
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Threshold curves
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Delay [ns]
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 4.2)
Out-of-time fraction
Delay [ns]
Threshold
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 4.4)
Out-of-time fraction
Delay [ns]
Threshold
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Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 4.6)
Out-of-time fraction
Delay [ns]
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Threshold curves
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Out-of-time fraction
Delay [ns]
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Threshold curves
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Delay [ns]
1.0
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 600.0,ToF Smearing = 5.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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Threshold curves
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Delay [ns]
1.0
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 0.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
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Out-of-time fraction
Delay [ns]
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20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 1.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 1.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 1.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 1.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 1.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 1.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 1.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 1.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 1.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 1.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 2.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 2.0)
Threshold
8000
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6000
5000
4000
3000
2000
0
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20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 2.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
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Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 2.2)
Threshold
8000
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6000
5000
4000
3000
2000
0
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40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 2.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 2.4)
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Delay [ns]
1.0
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0.4
0.2
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 2.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 2.6)
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8000
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2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 2.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 2.8)
Threshold
8000
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6000
5000
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3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 3.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 3.0)
Threshold
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Delay [ns]
1.0
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0.4
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 3.2)
Out-of-time fraction
Delay [ns]
Threshold
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Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 3.2)
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Delay [ns]
1.0
0.8
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0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 3.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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0.4
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Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 3.4)
Threshold
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40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 3.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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8000
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2000

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 3.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 3.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 3.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 4.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 4.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 4.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
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8000
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2000

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 4.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 4.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
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Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 4.4)
Threshold
8000
7000
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3000
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0
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40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 4.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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8000
7000
6000
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4000
3000
2000

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 4.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 4.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 4.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 5.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 700.0,ToF Smearing = 5.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 0.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
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30
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8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 0.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 0.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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8000
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Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 0.2)
Threshold
8000
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Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 0.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
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Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 0.4)
Threshold
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Delay [ns]
1.0
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 0.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 0.6)
Threshold
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Delay [ns]
Out-of-time fraction
1.0
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Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 0.8)
Out-of-time fraction
Delay [ns]
Threshold
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Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 0.8)
Threshold
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Delay [ns]
Out-of-time fraction
1.0
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Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 1.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 1.0)
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Delay [ns]
Out-of-time fraction
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Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 1.2)
Out-of-time fraction
Delay [ns]
Threshold
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Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 1.2)
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Delay [ns]
1.0
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 1.4)
Out-of-time fraction
Delay [ns]
Threshold
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Delay [ns]
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 1.6)
Out-of-time fraction
Delay [ns]
Threshold
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Delay [ns]
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Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 1.8)
Out-of-time fraction
Delay [ns]
Threshold
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Threshold
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40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 2.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
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Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 2.0)
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Out-of-time fraction

Threshold curves
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Out-of-time fraction
Delay [ns]
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Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 2.2)
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Delay [ns]
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 2.4)
Out-of-time fraction
Delay [ns]
Threshold
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Out-of-time fraction

Threshold curves
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Out-of-time fraction
Delay [ns]
Threshold
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Delay [ns]
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 2.8)
Out-of-time fraction
Delay [ns]
Threshold
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Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 2.8)
Threshold
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Delay [ns]
1.0
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 3.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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0.4
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Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 3.0)
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40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 3.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 3.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 3.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 3.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 3.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 3.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 3.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 3.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 4.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 4.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 4.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 4.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 4.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 4.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 4.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 4.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 4.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 4.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 5.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 800.0,ToF Smearing = 5.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 0.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 0.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 0.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 0.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 0.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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8000
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Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 0.4)
Threshold
8000
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4000
3000
2000
0
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20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 0.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
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0.4
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Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 0.6)
Threshold
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40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 0.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
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0.4
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Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 0.8)
Threshold
8000
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6000
5000
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3000
2000
0
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40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 1.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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8000
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2000

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 1.0)
Threshold
8000
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Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 1.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 1.2)
Threshold
8000
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40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 1.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
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0.4
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Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 1.4)
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2000
0
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40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 1.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
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2000

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 1.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 1.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 1.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 2.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 2.0)
Threshold
8000
7000
6000
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4000
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2000
0
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40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 2.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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0.4
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Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 2.2)
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Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 2.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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0.4
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Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 2.4)
Threshold
8000
7000
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Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 2.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
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0.4
0.2
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Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 2.6)
Threshold
8000
7000
6000
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3000
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40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 2.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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0.4
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Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 2.8)
Threshold
8000
7000
6000
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0
10
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40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 3.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
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Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 3.0)
Threshold
8000
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Delay [ns]
1.0
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0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 3.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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0.4
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Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 3.2)
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8000
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Delay [ns]
1.0
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0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 3.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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0.4
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Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 3.4)
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Delay [ns]
1.0
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 3.6)
Out-of-time fraction
Delay [ns]
Threshold
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Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 3.6)
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Delay [ns]
1.0
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 3.8)
Out-of-time fraction
Delay [ns]
Threshold
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Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 3.8)
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8000
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Delay [ns]
1.0
0.8
0.6
0.4
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Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 4.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
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Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 4.0)
Threshold
8000
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40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 4.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
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Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 4.2)
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8000
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40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 4.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
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0.0
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Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 4.4)
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40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 4.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
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2000

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 4.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
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30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 4.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 4.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 5.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
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8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 900.0,ToF Smearing = 5.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 0.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
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Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 0.0)
Threshold
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40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 0.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
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30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 0.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 0.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 0.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 0.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 0.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 0.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 0.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 1.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 1.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 1.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 1.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 1.4)
Out-of-time fraction
Delay [ns]
Threshold
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
2000
3000
4000
5000
6000
7000
8000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 1.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 1.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 1.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 1.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 1.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 2.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 2.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 2.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 2.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 2.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 2.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 2.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 2.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 2.8)
Out-of-time fraction
Delay [ns]
Threshold
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
2000
3000
4000
5000
6000
7000
8000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 2.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 3.0)
Out-of-time fraction
Delay [ns]
Threshold
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
2000
3000
4000
5000
6000
7000
8000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 3.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 3.2)
Out-of-time fraction
Delay [ns]
Threshold
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
2000
3000
4000
5000
6000
7000
8000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 3.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 3.4)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 3.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 3.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 3.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 3.8)
Out-of-time fraction
Delay [ns]
Threshold
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
2000
3000
4000
5000
6000
7000
8000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 3.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 4.0)
Out-of-time fraction
Delay [ns]
Threshold
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
2000
3000
4000
5000
6000
7000
8000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 4.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
Out-of-time fraction
1.0
0.8
0.6
0.4
0.2
0.0

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 4.2)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 4.2)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 4.4)
Out-of-time fraction
Delay [ns]
Threshold
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
2000
3000
4000
5000
6000
7000
8000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 4.4)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 4.6)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 4.6)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 4.8)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 4.8)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 5.0)
Out-of-time fraction
Delay [ns]
Threshold
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
8000
7000
6000
5000
4000
3000
2000

Threshold curves
(Threshold Smearing = 1000.0,ToF Smearing = 5.0)
Threshold
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
Delay [ns]
1.0
0.8
0.6
0.4
0.2
0.0
Out-of-time fraction