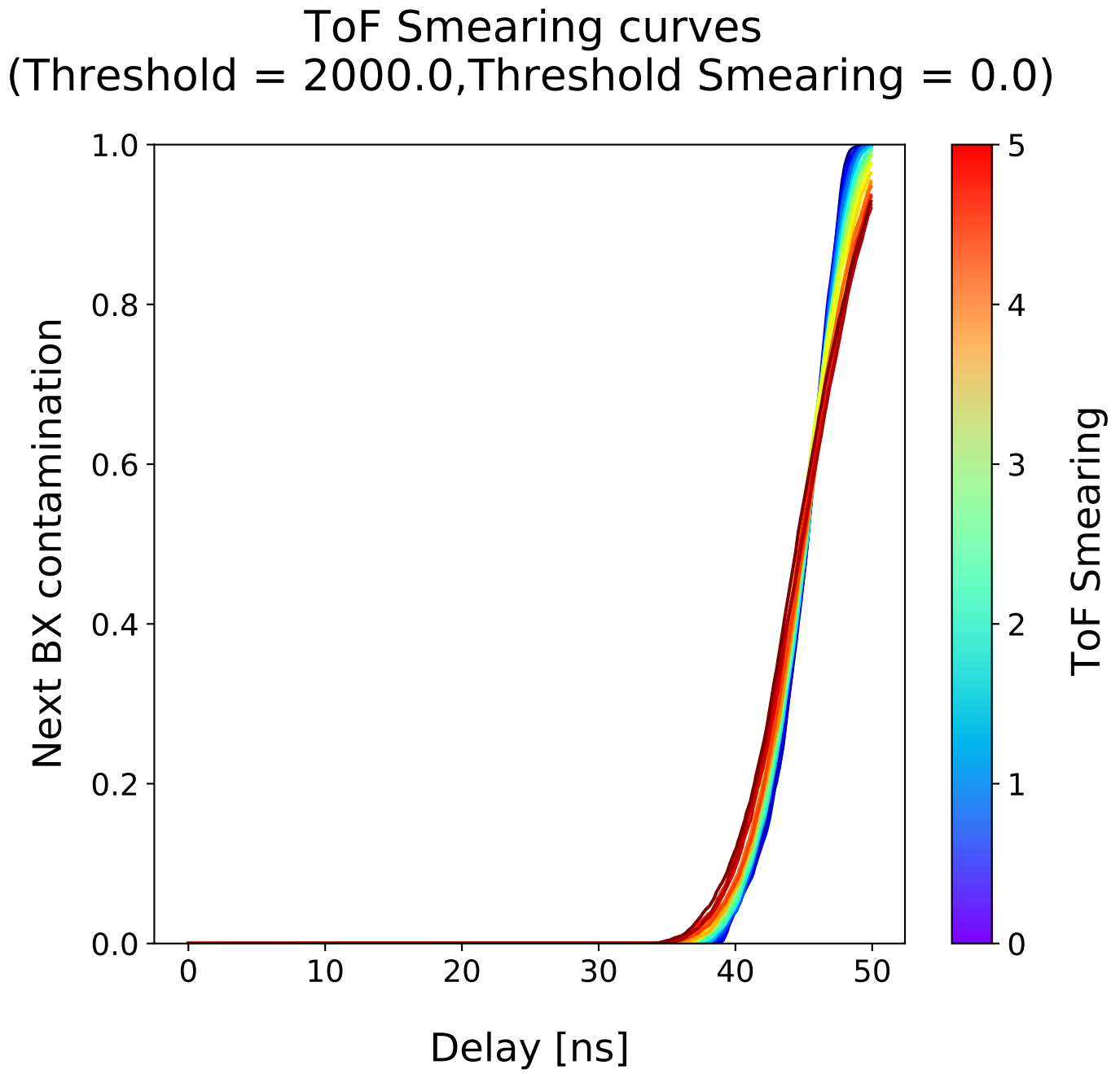
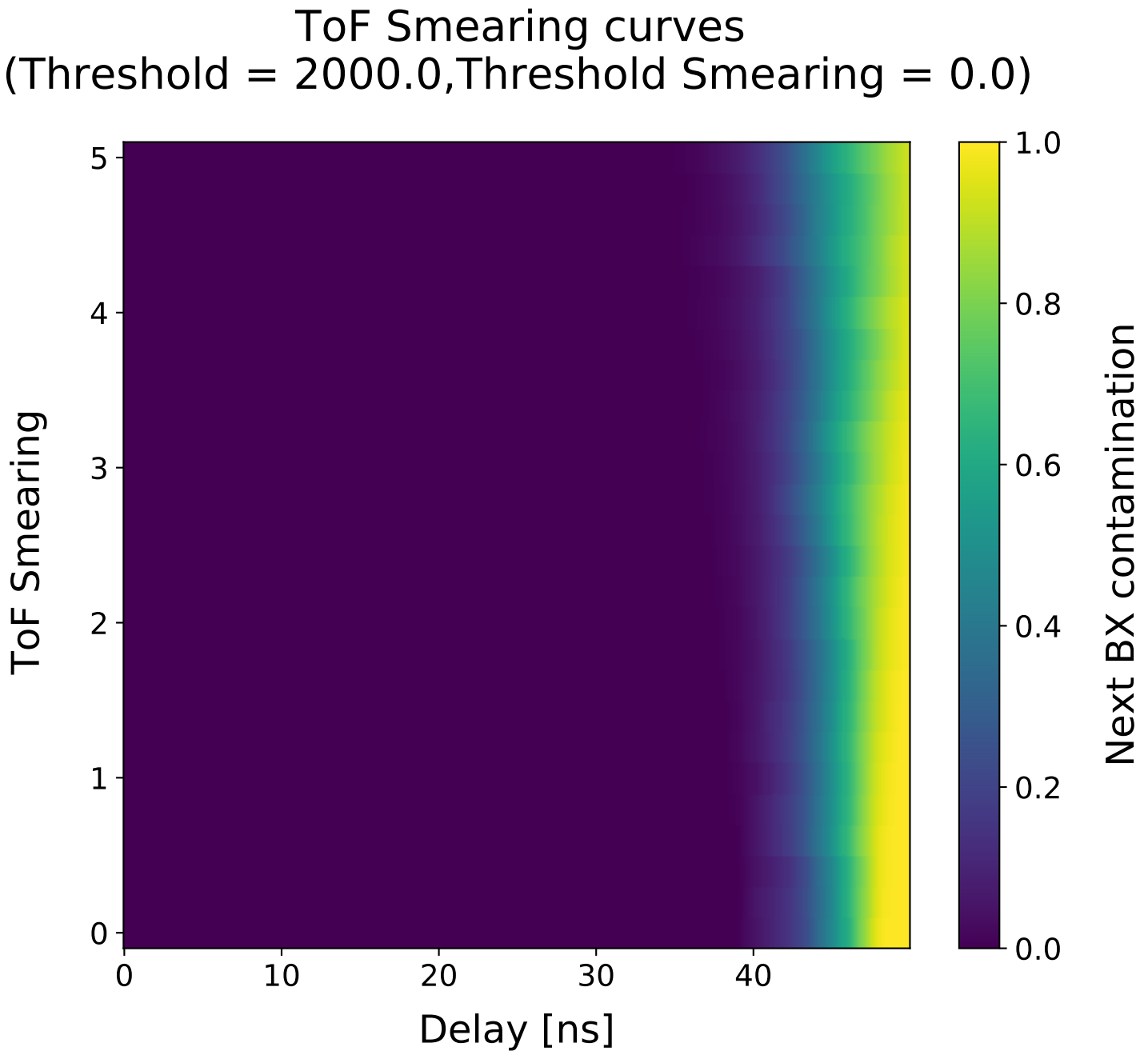
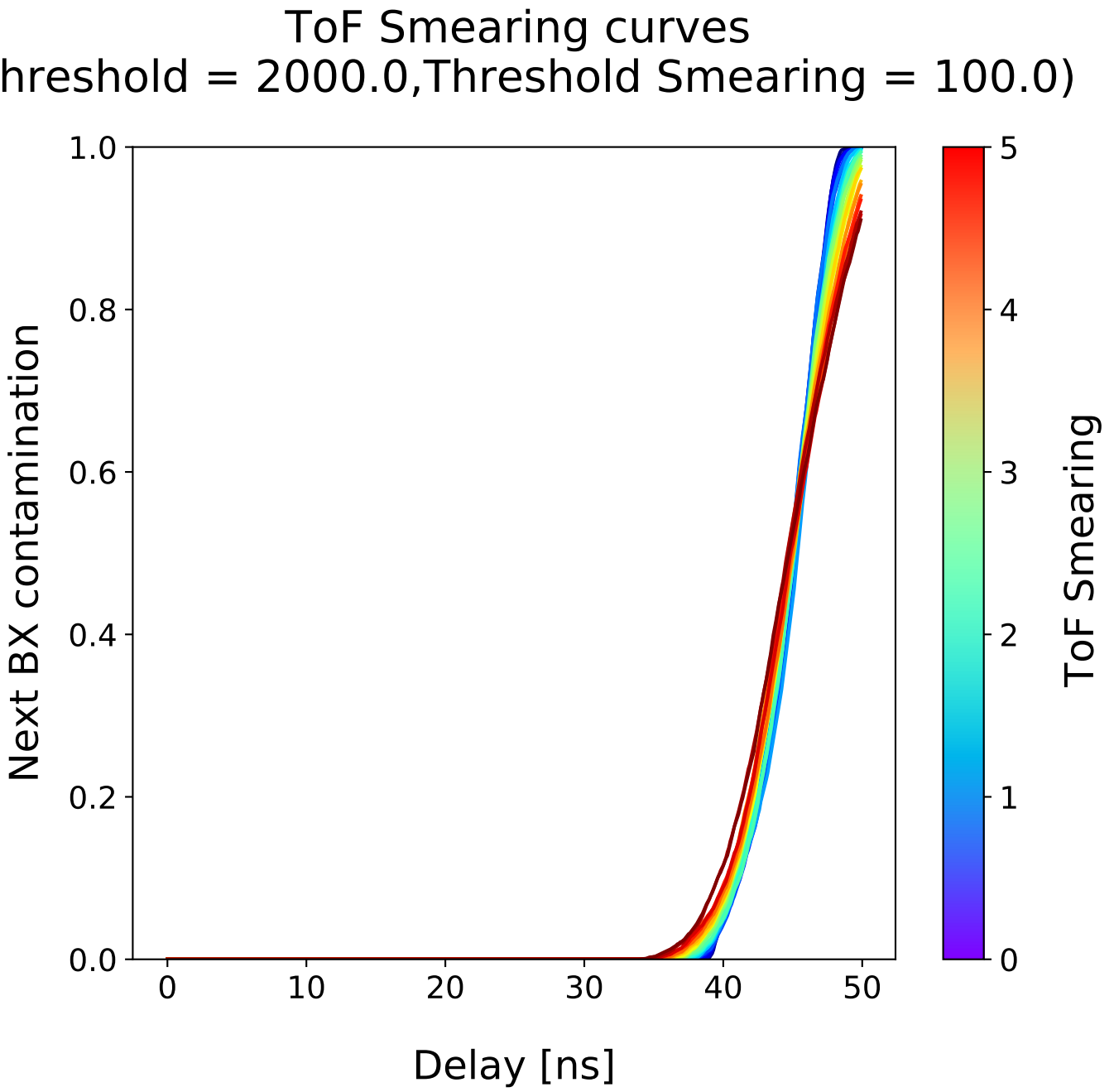
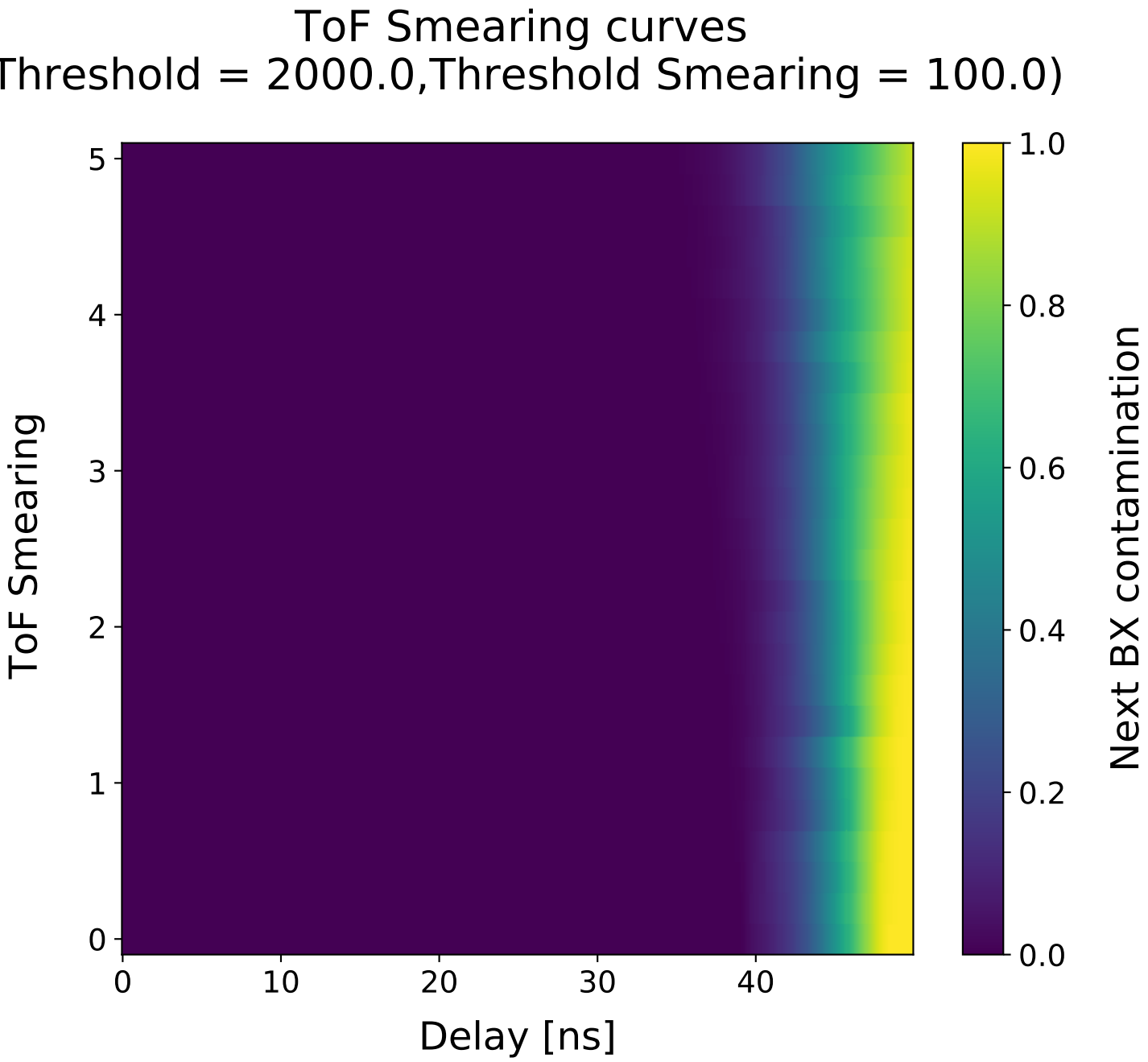
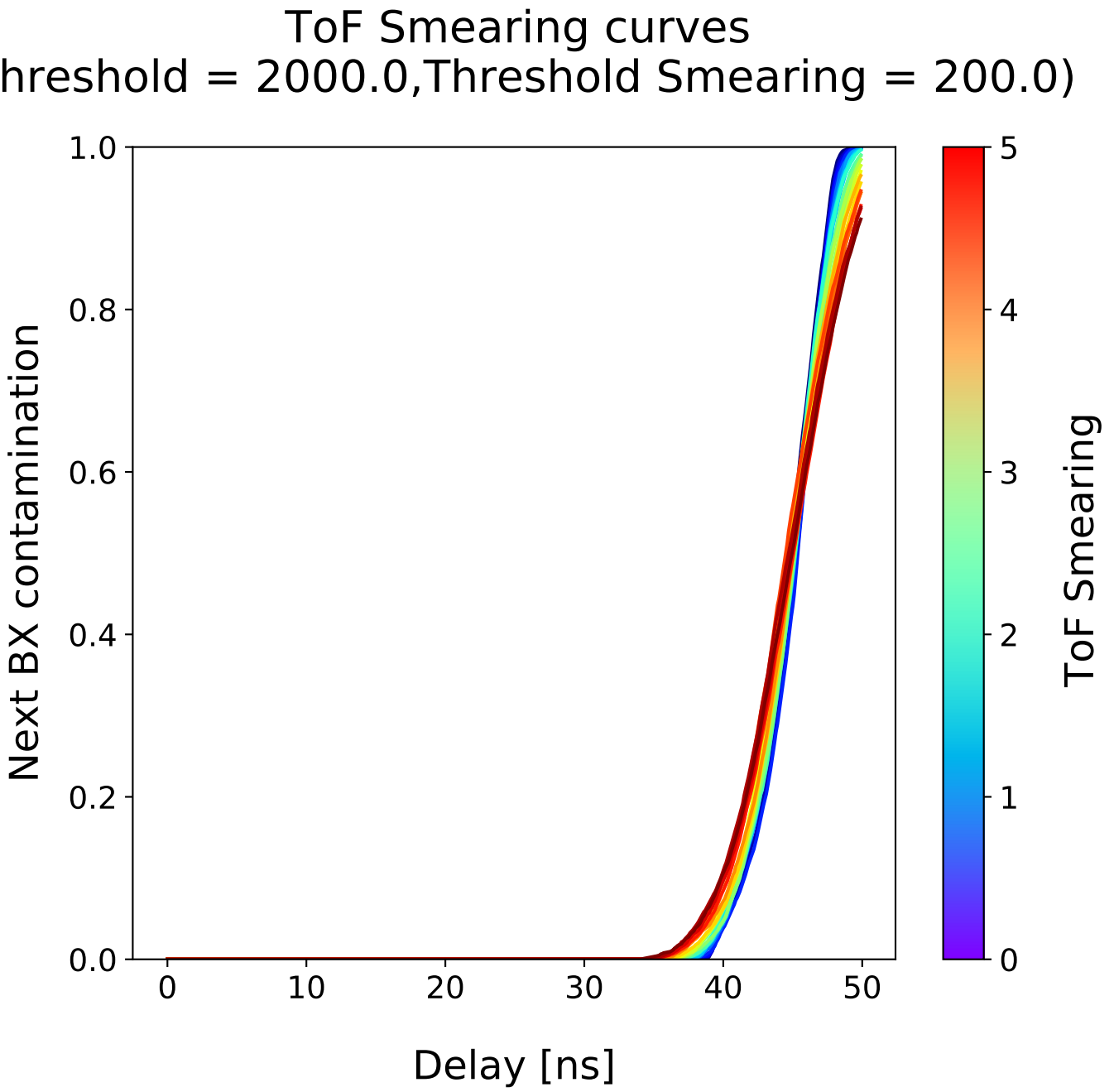
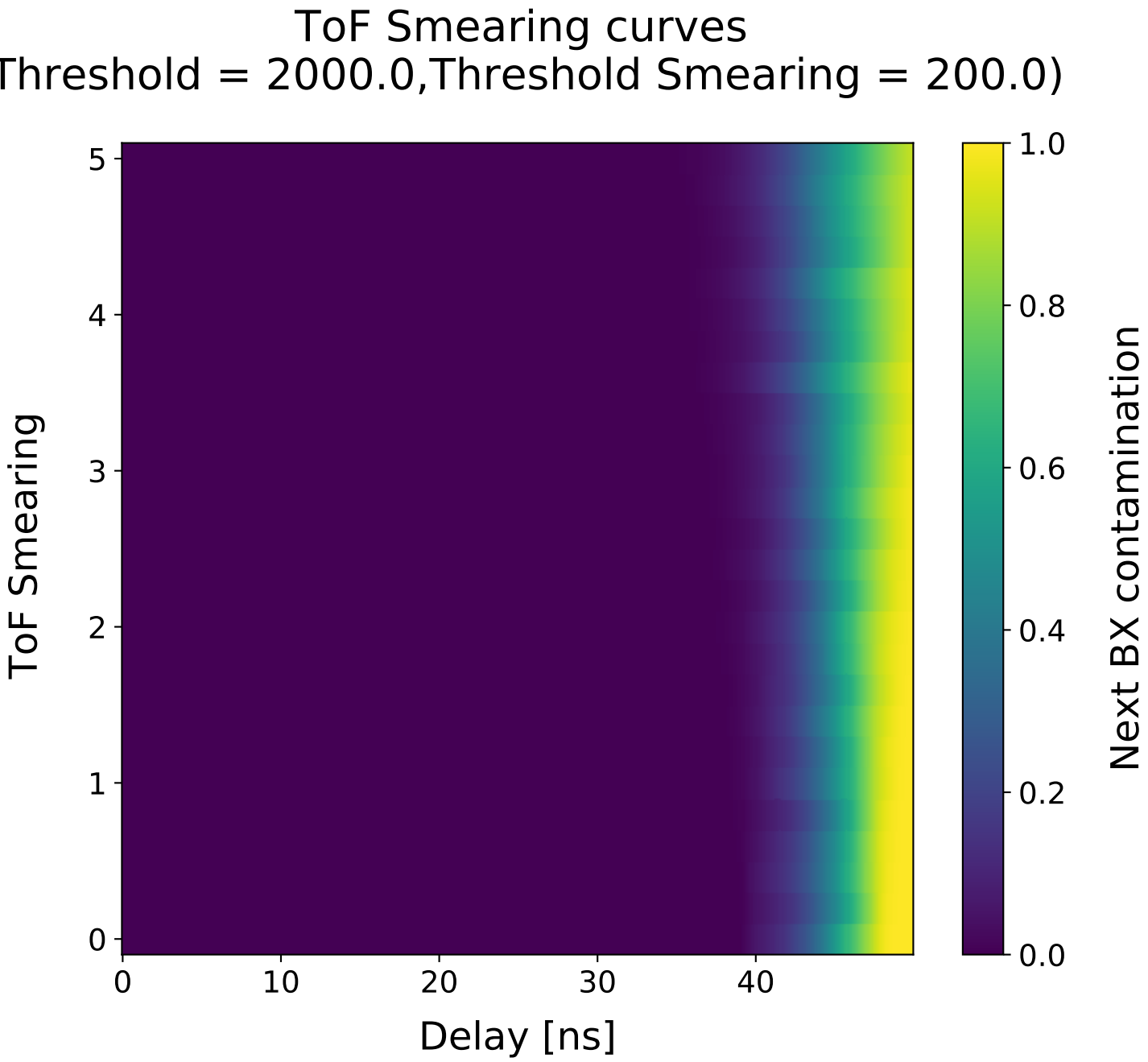

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
5
4
3
2
1
0

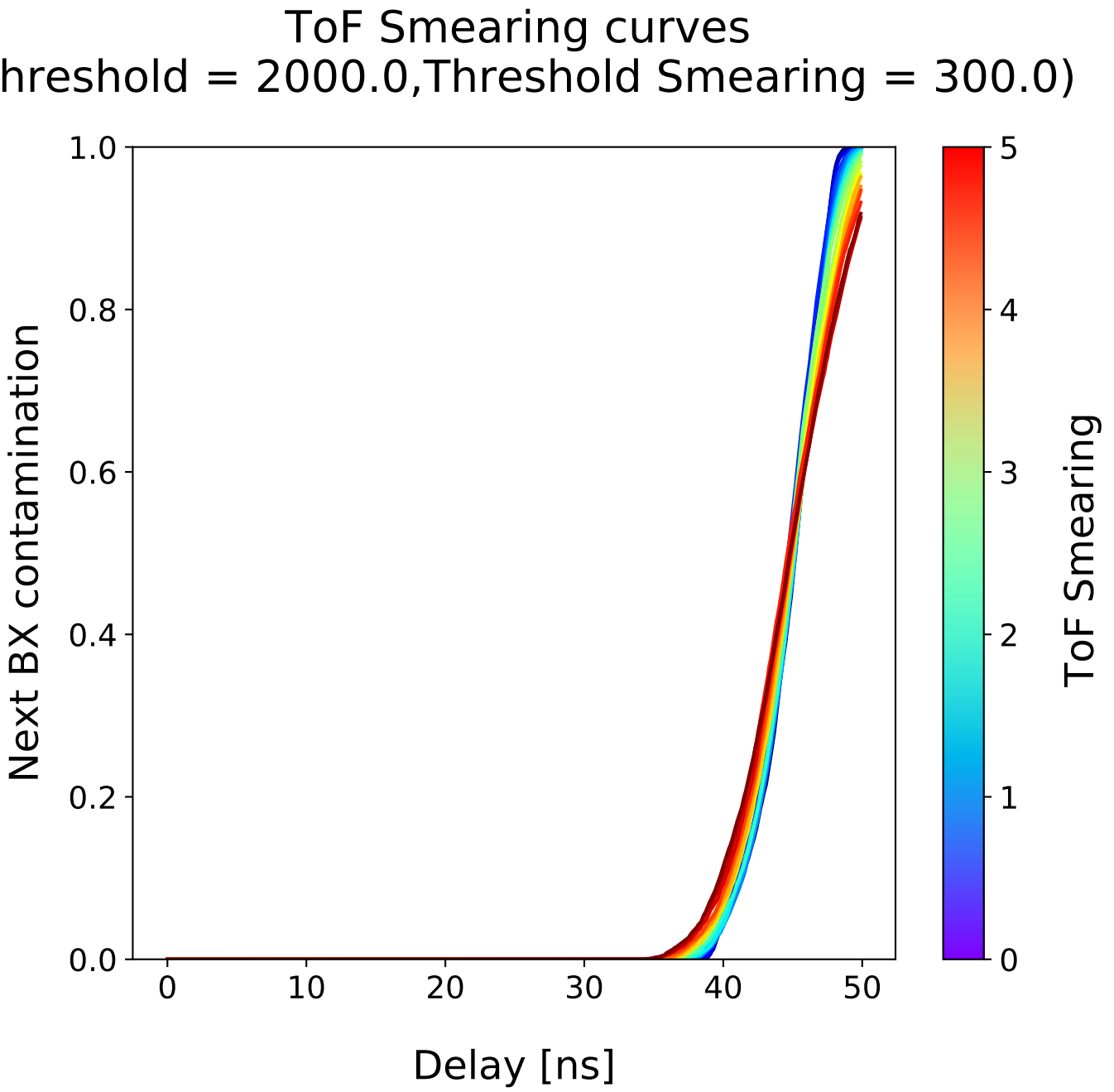

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

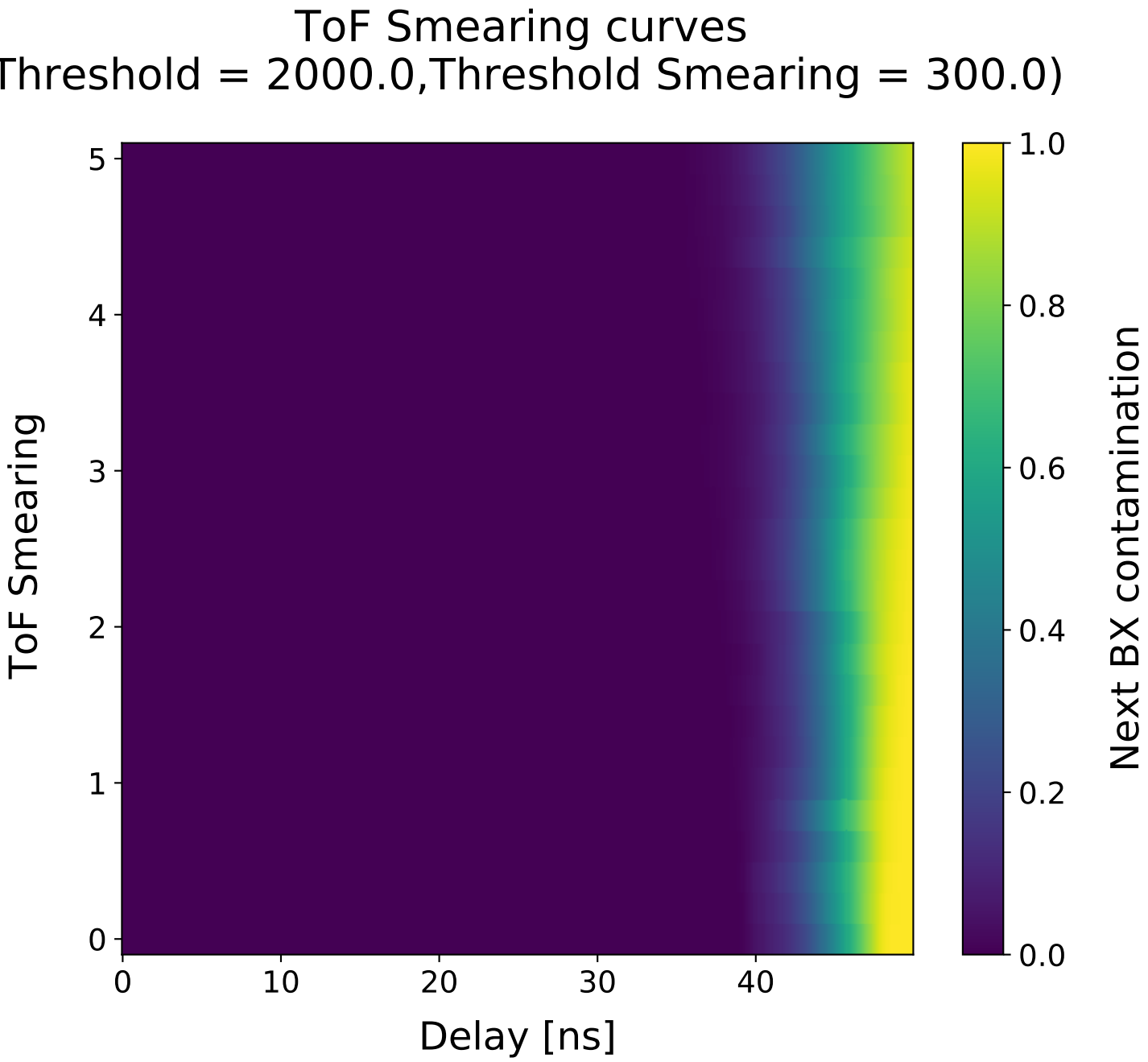

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

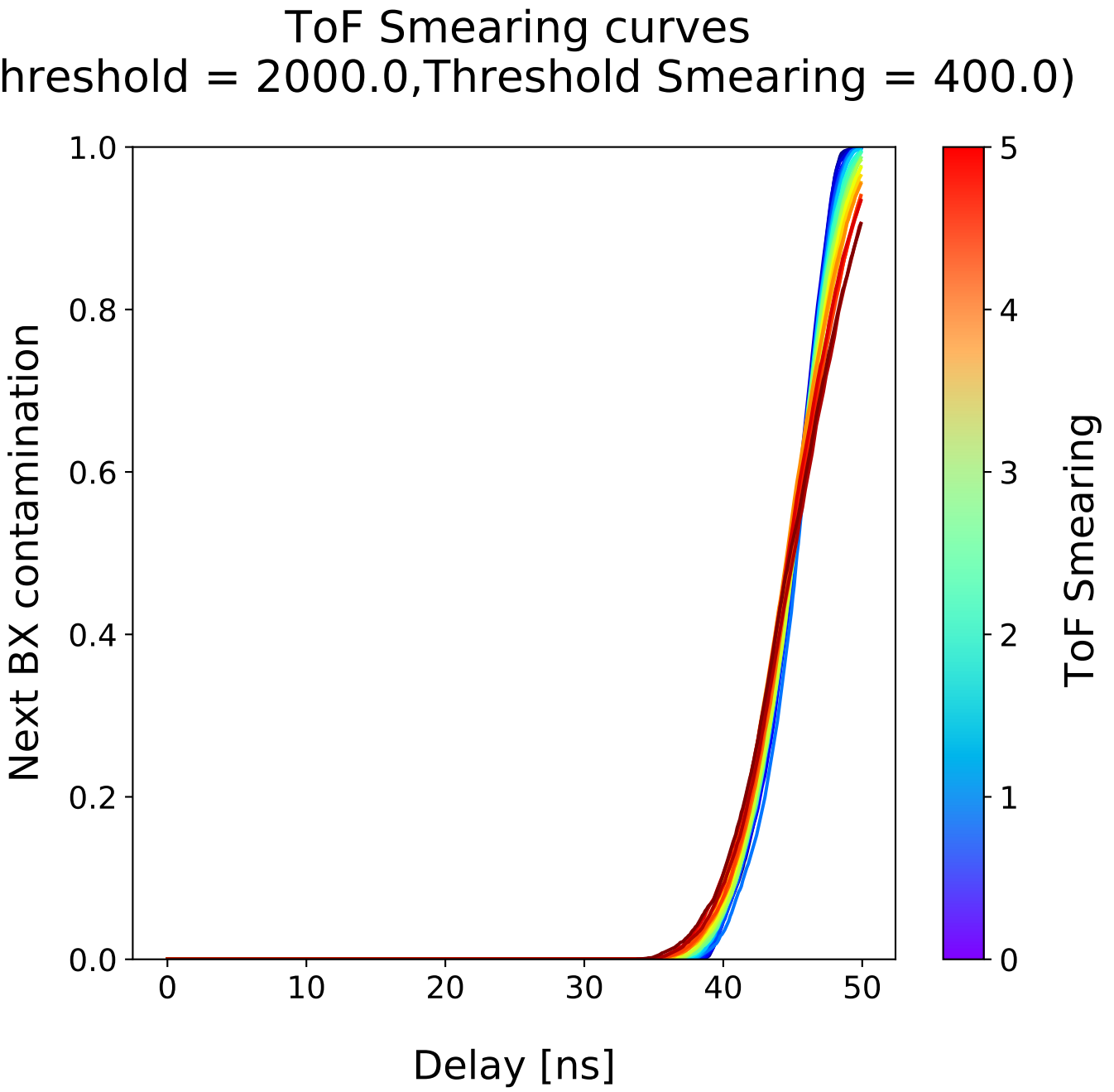

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

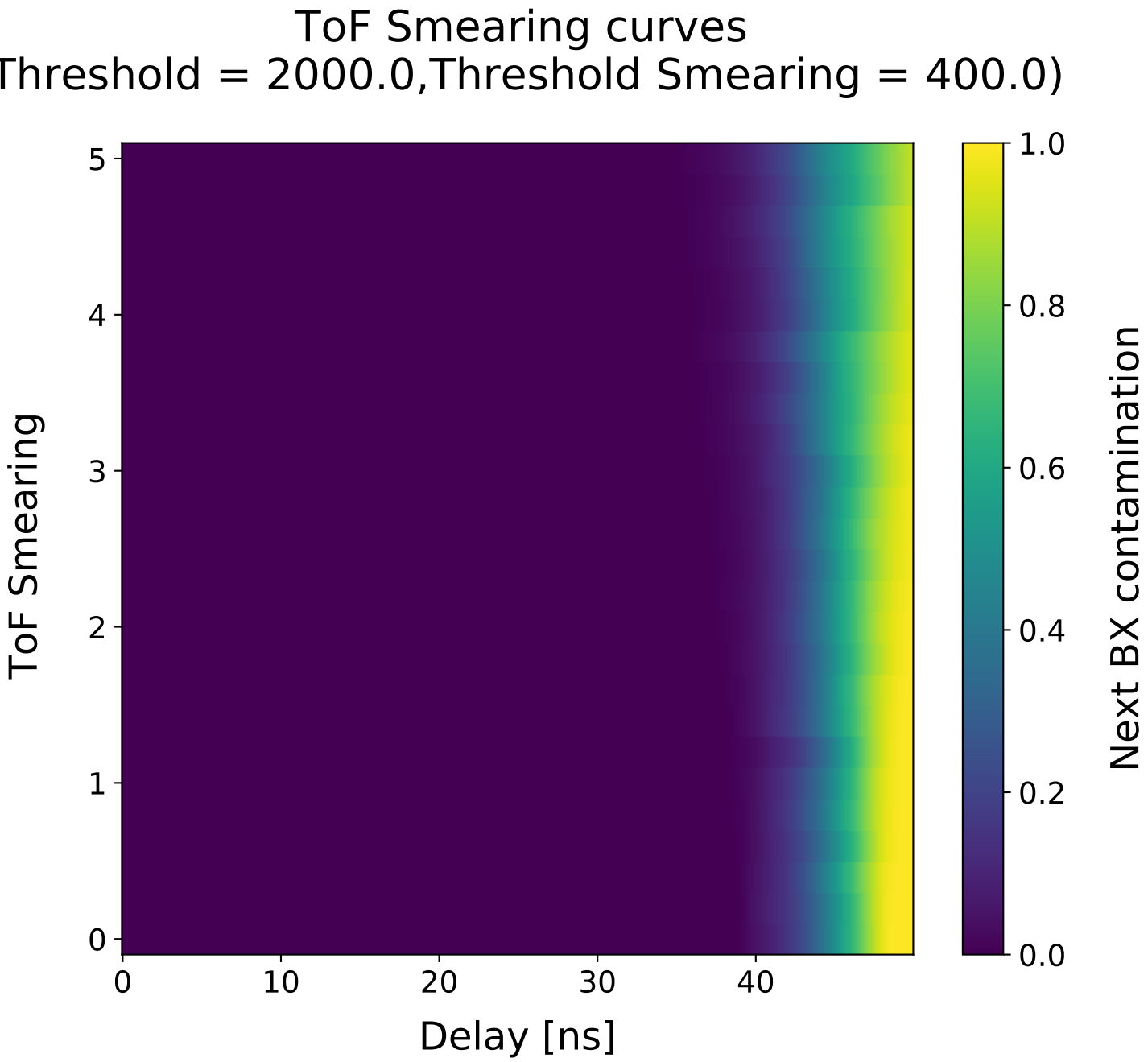

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

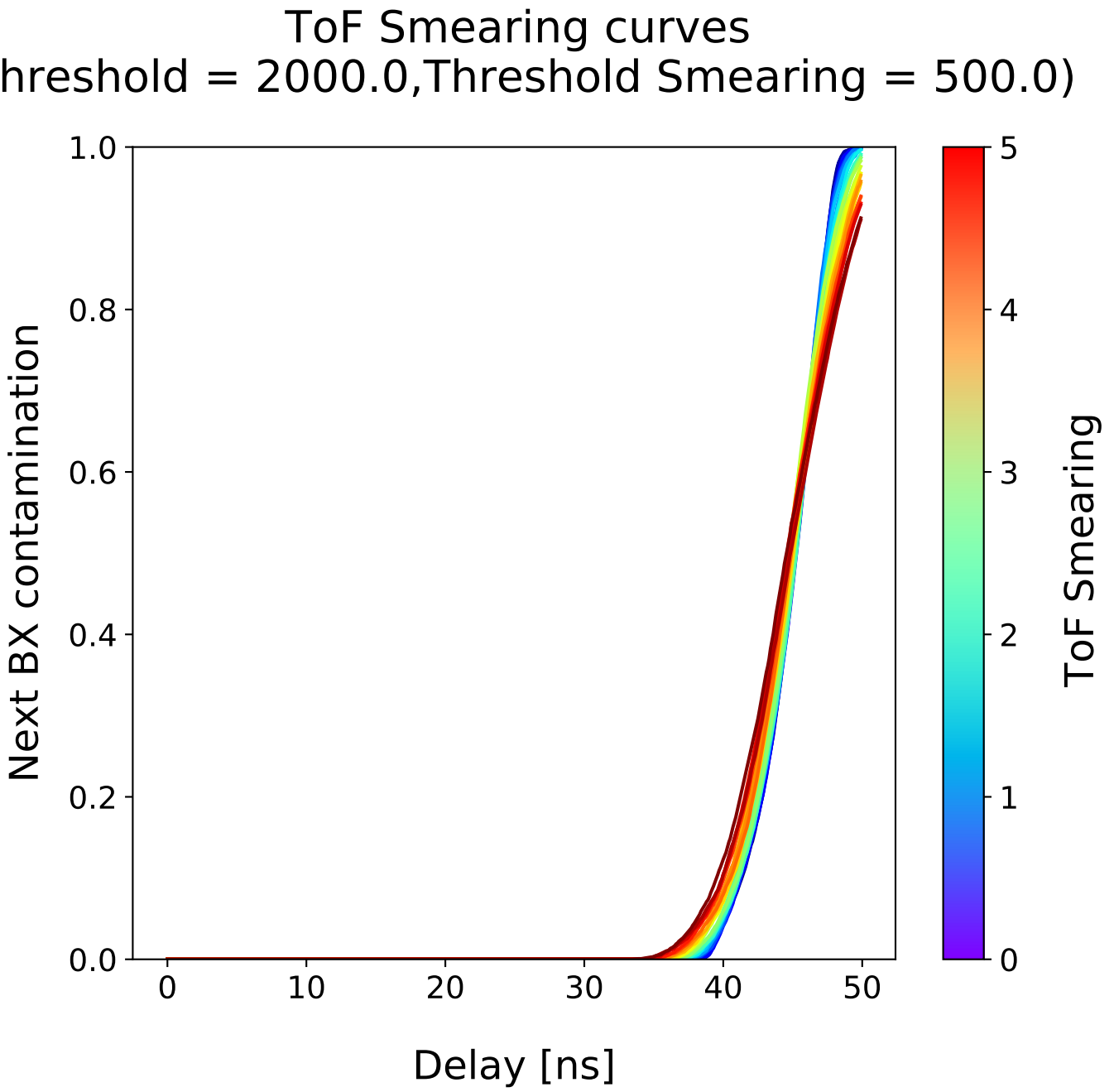

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

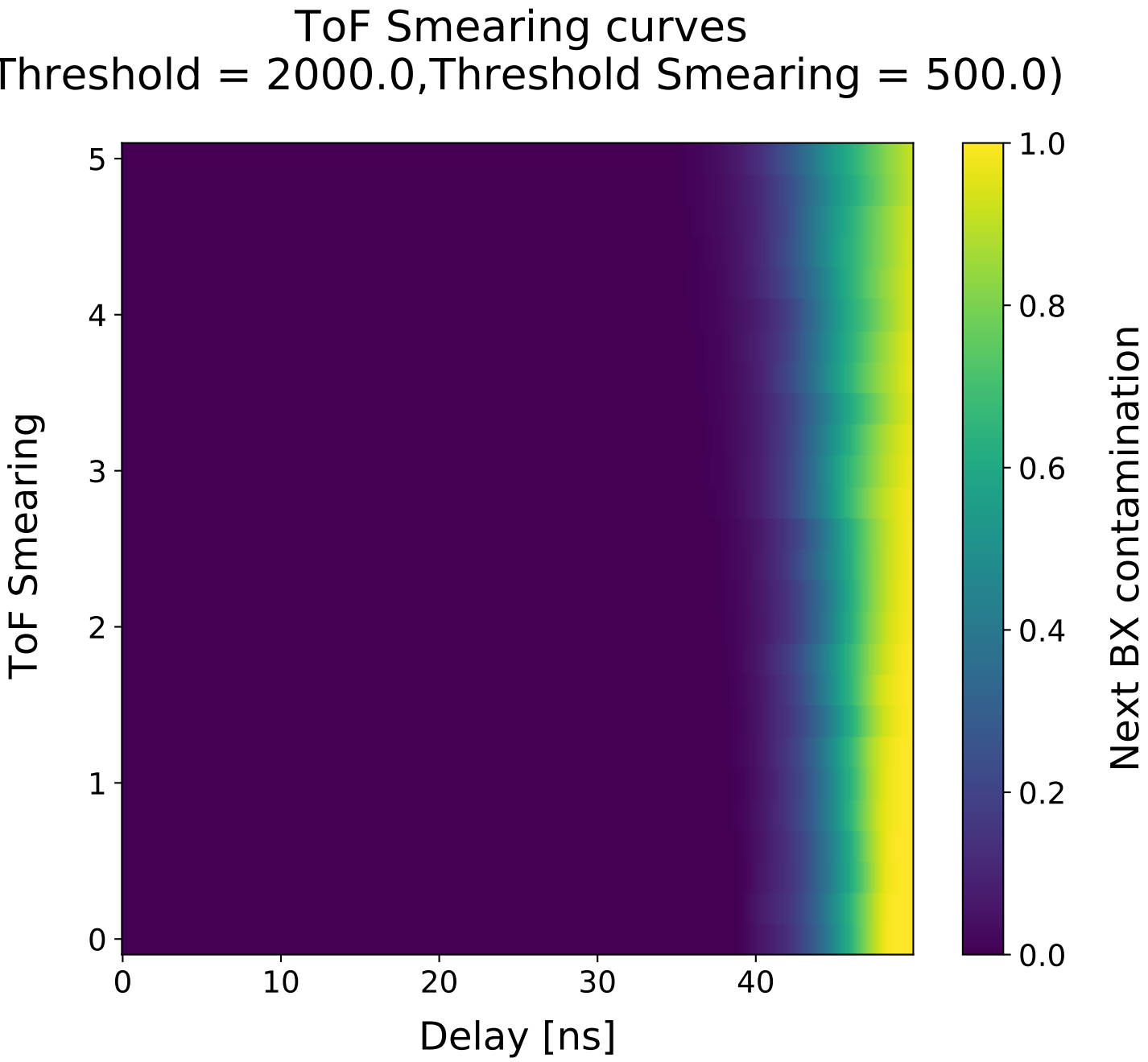

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

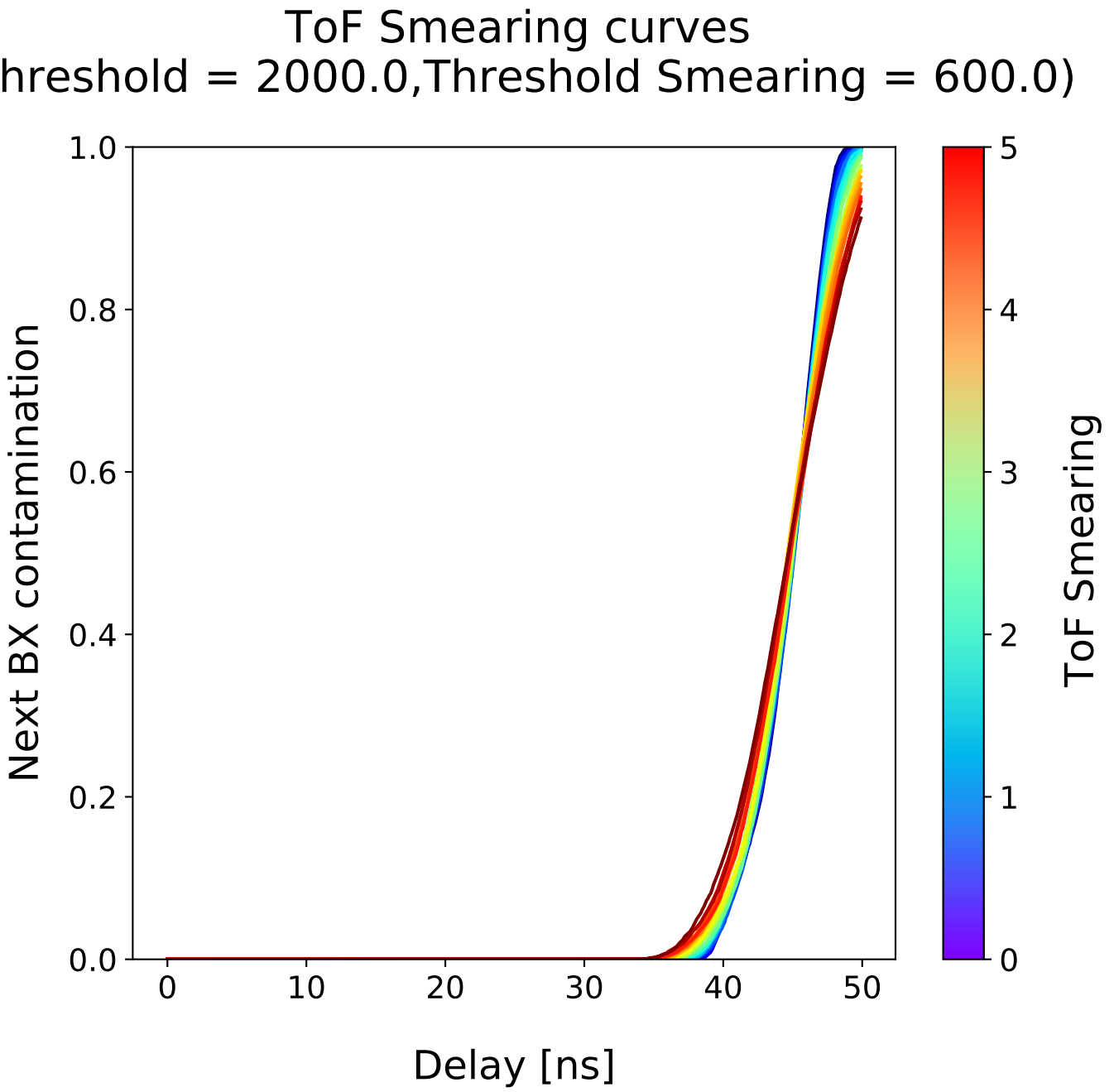

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

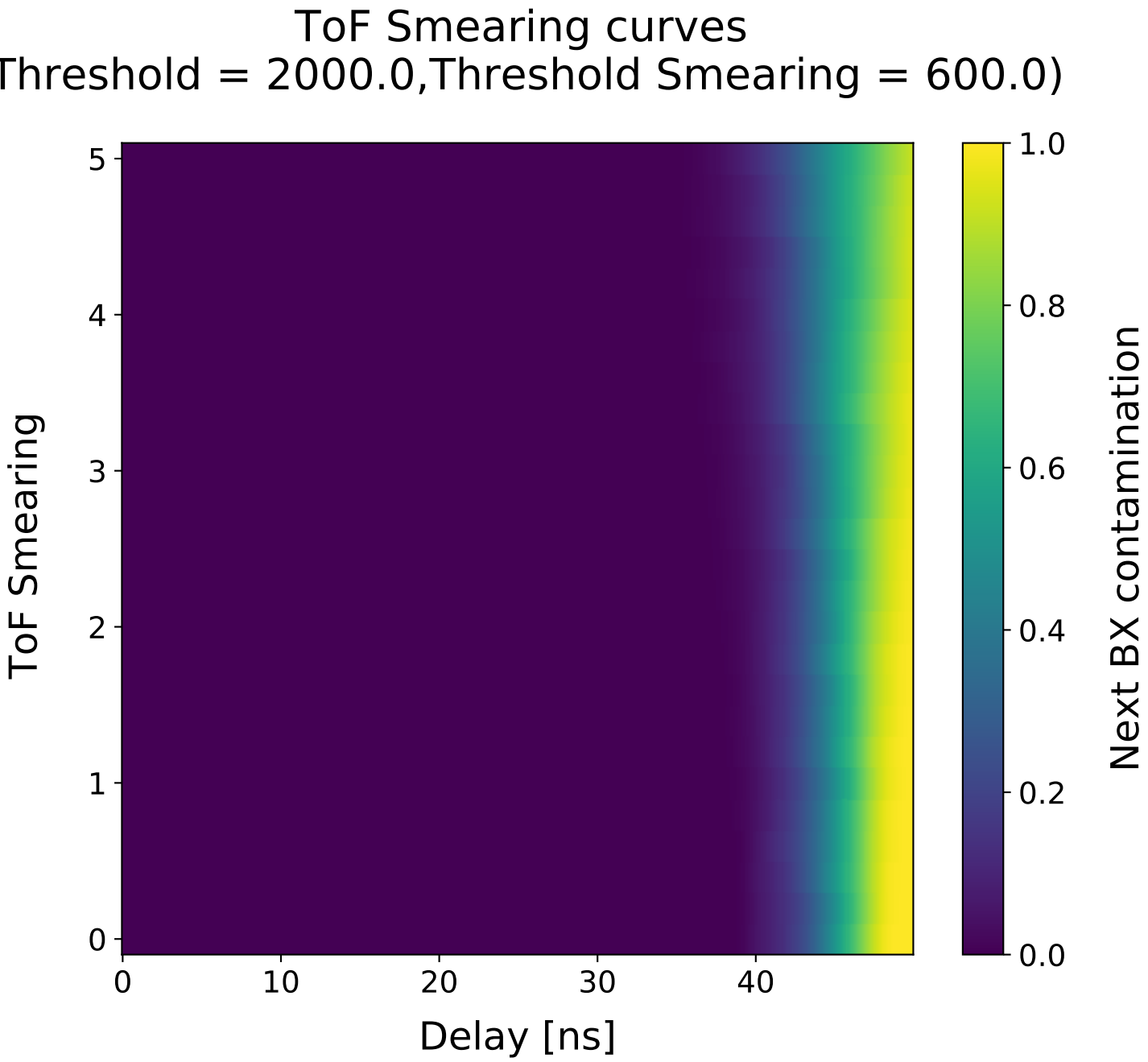

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

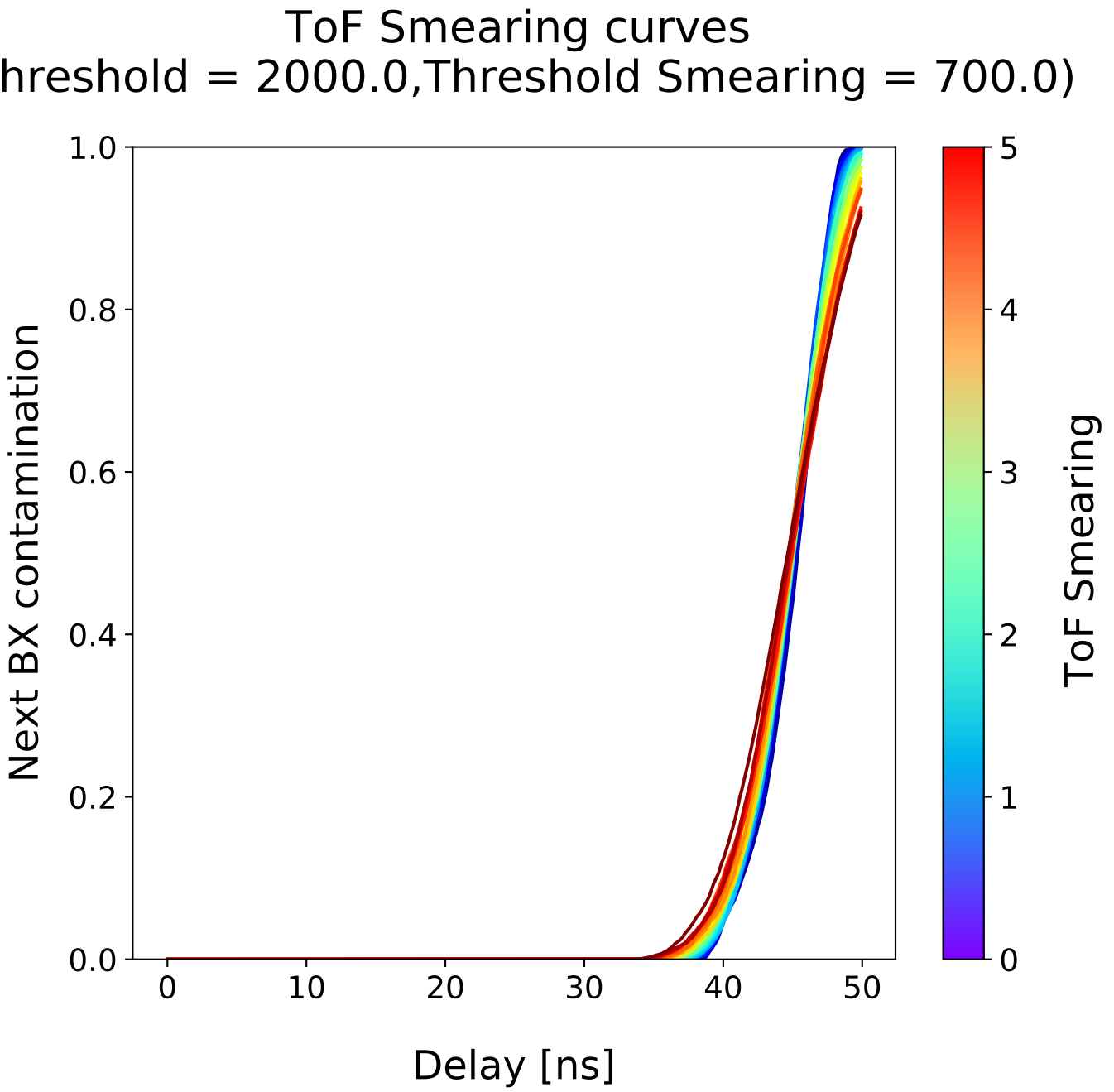

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

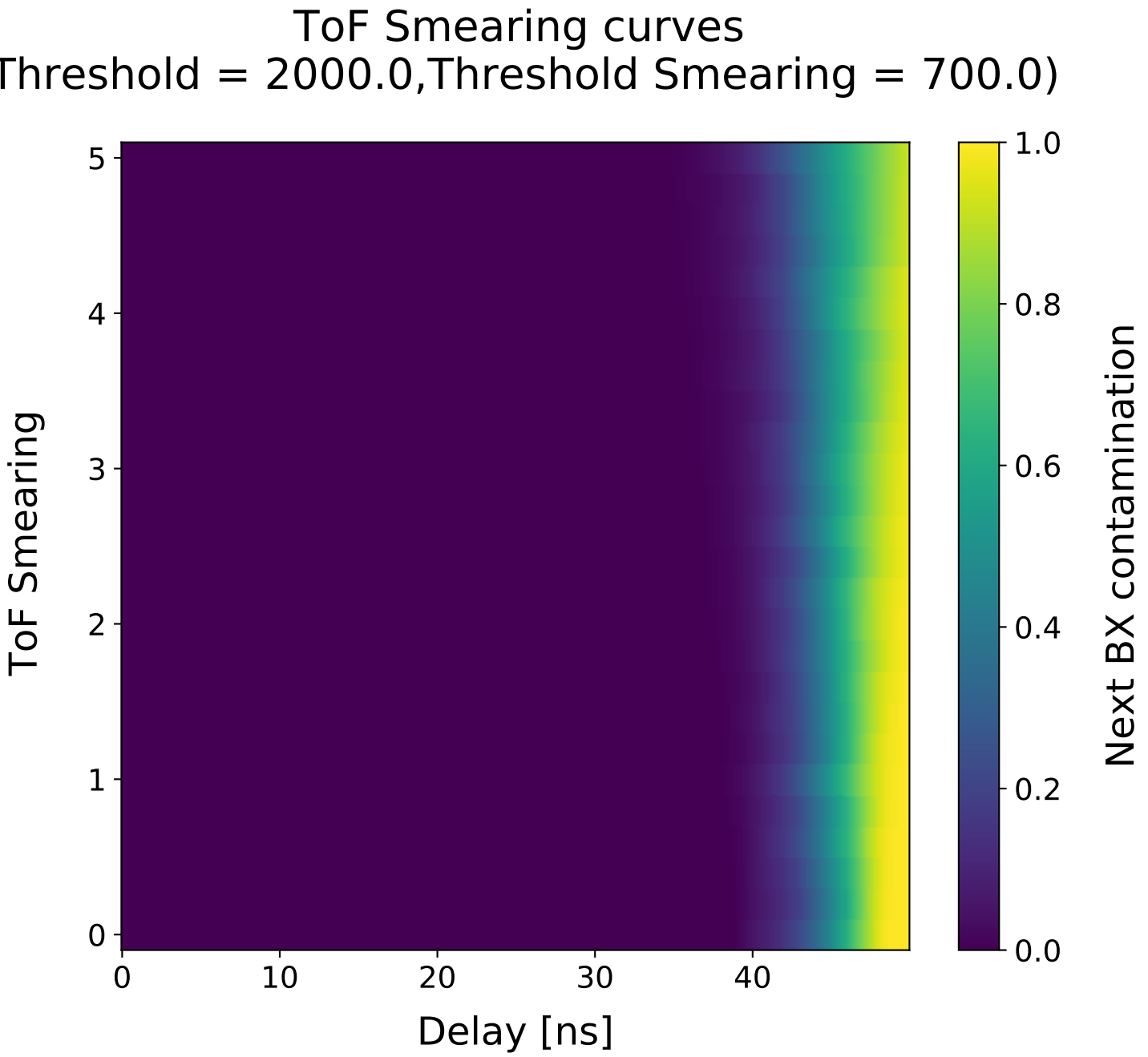

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

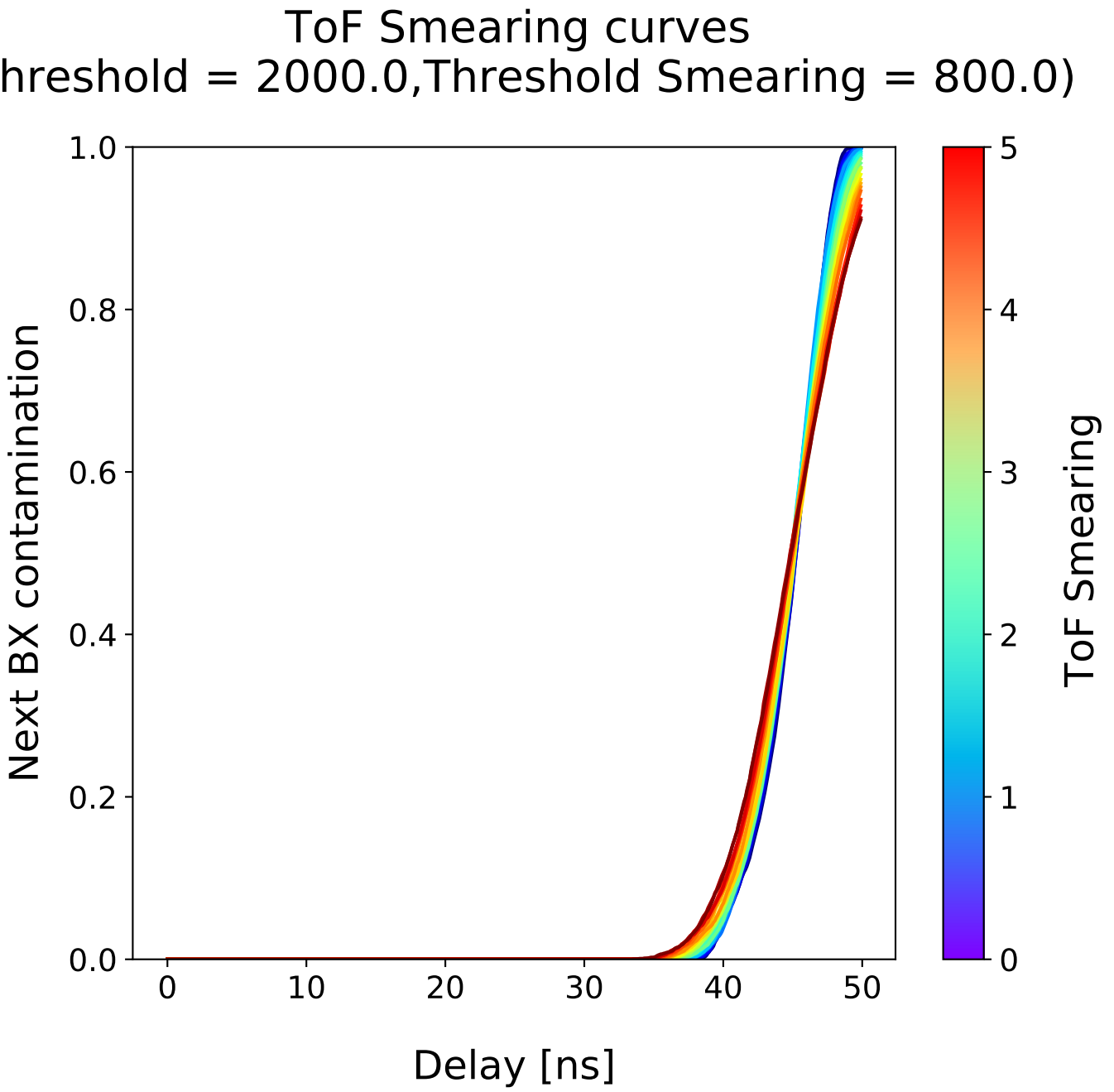

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

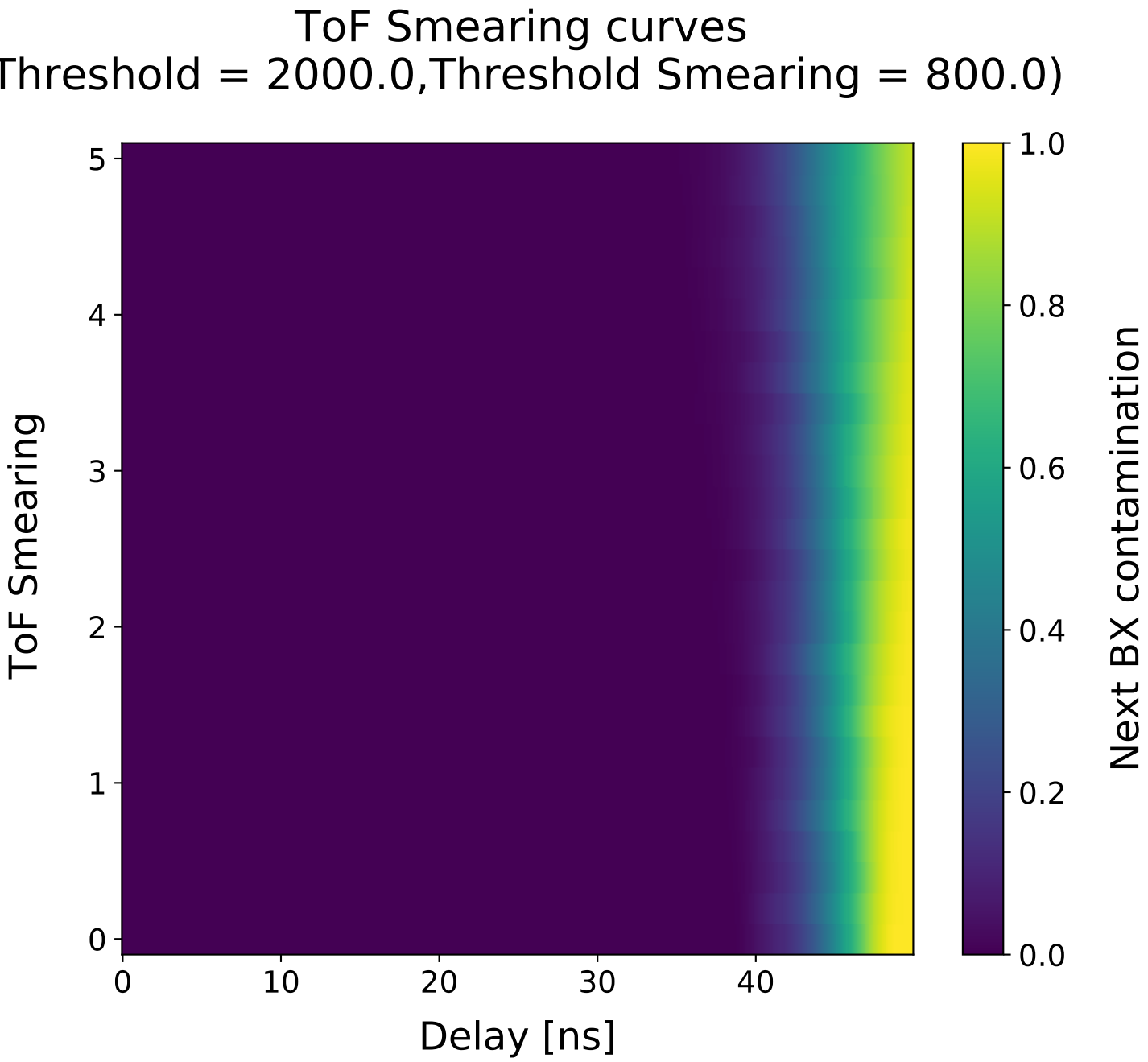

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

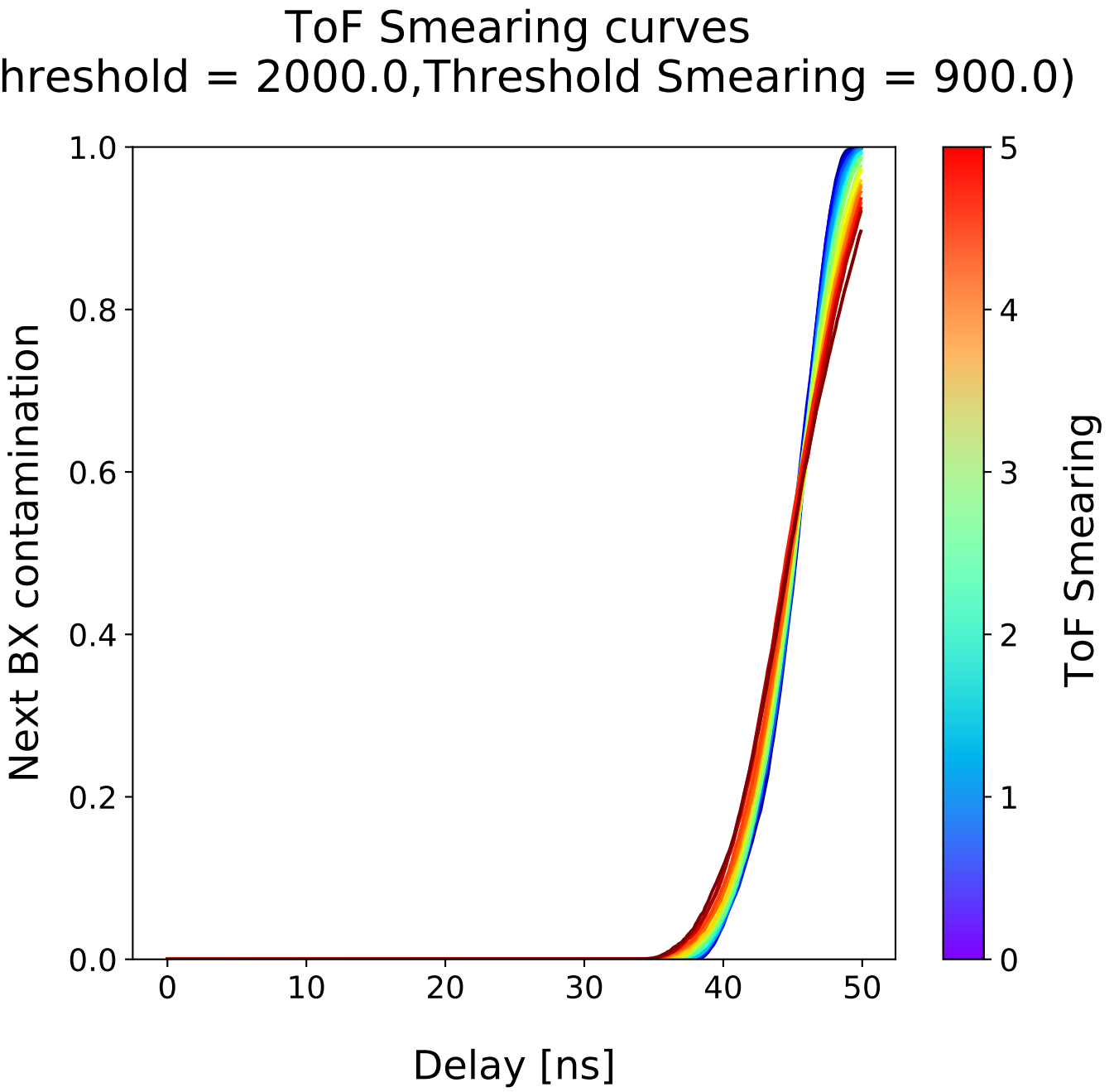

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

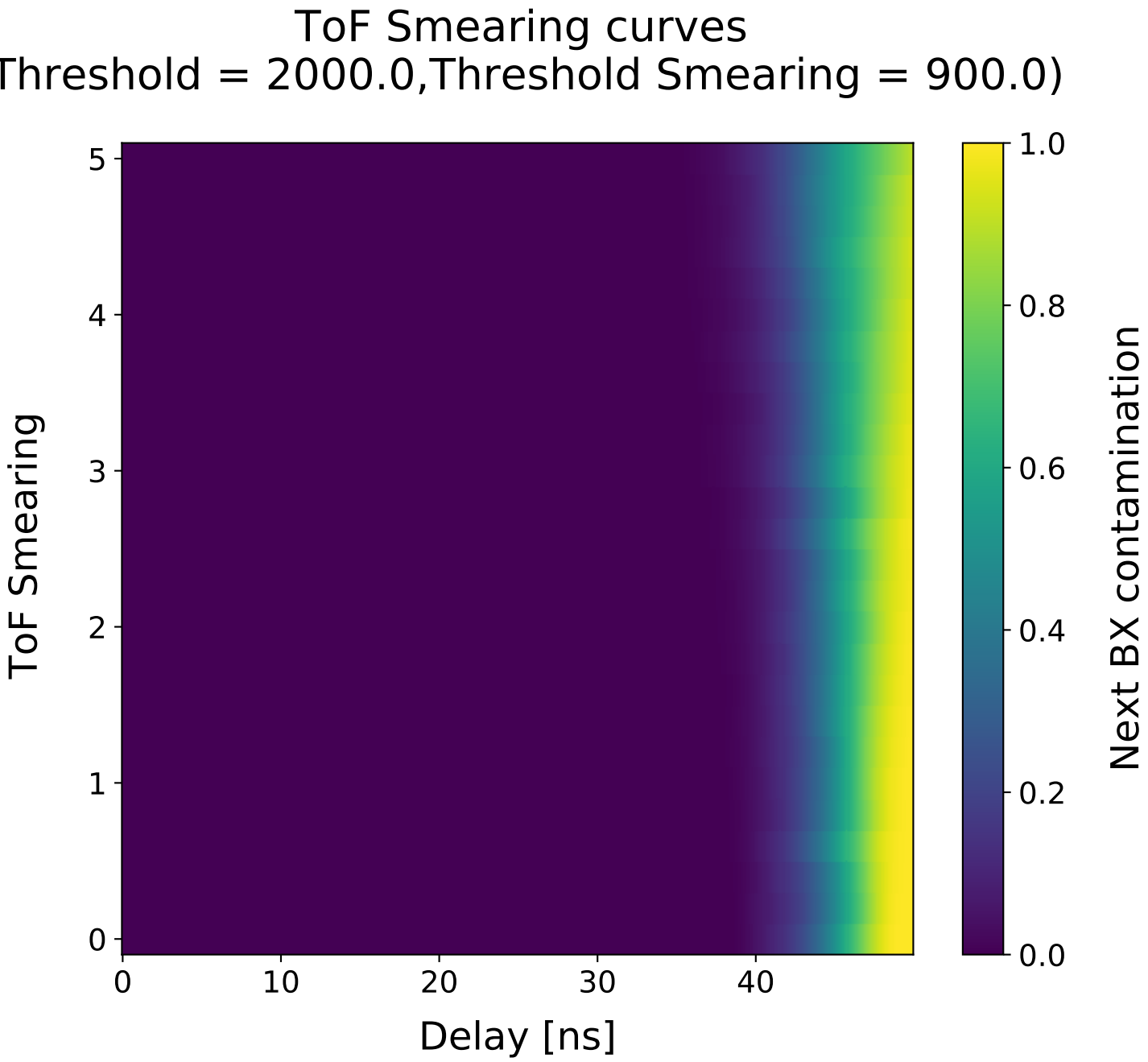

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

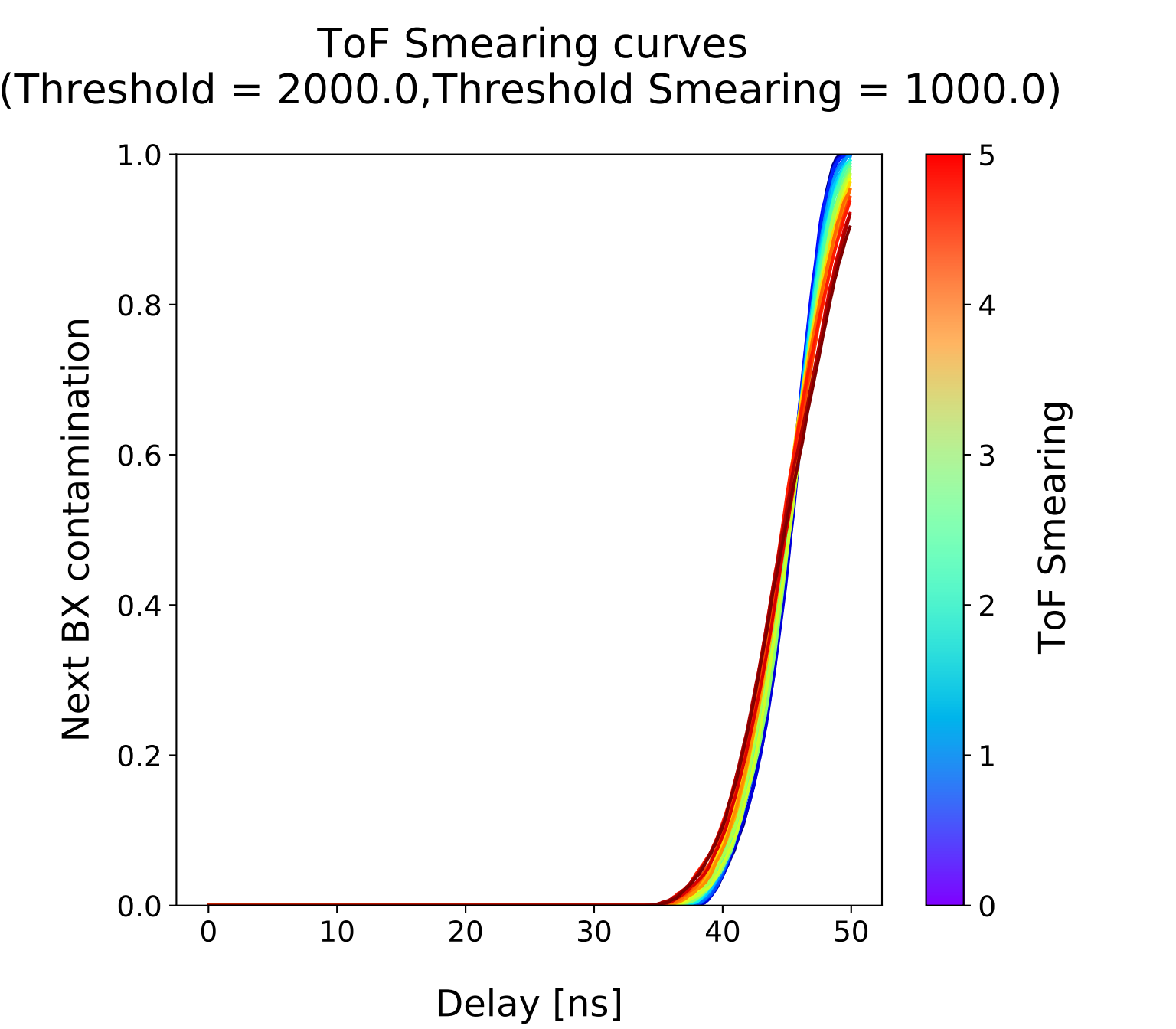

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

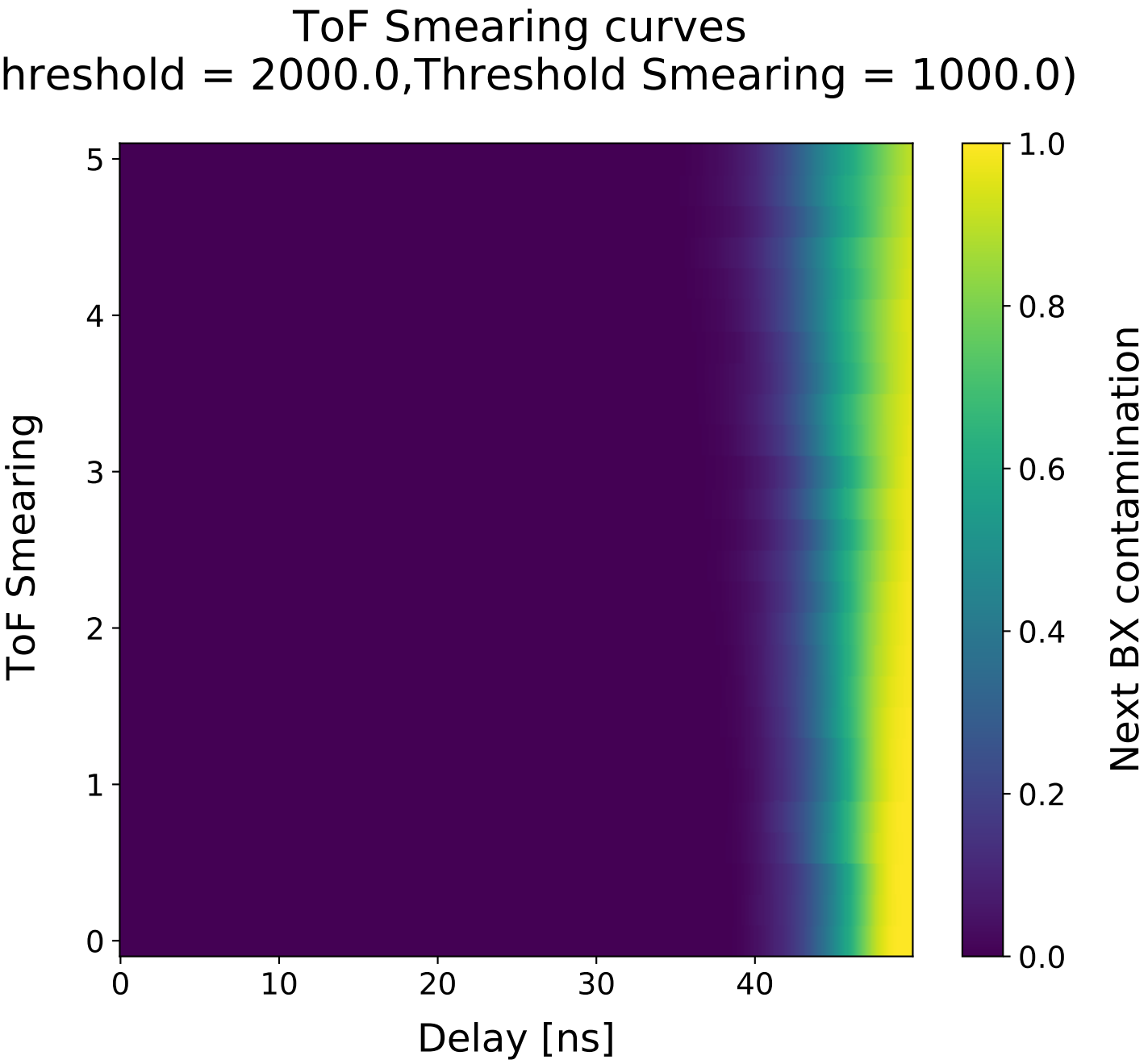

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

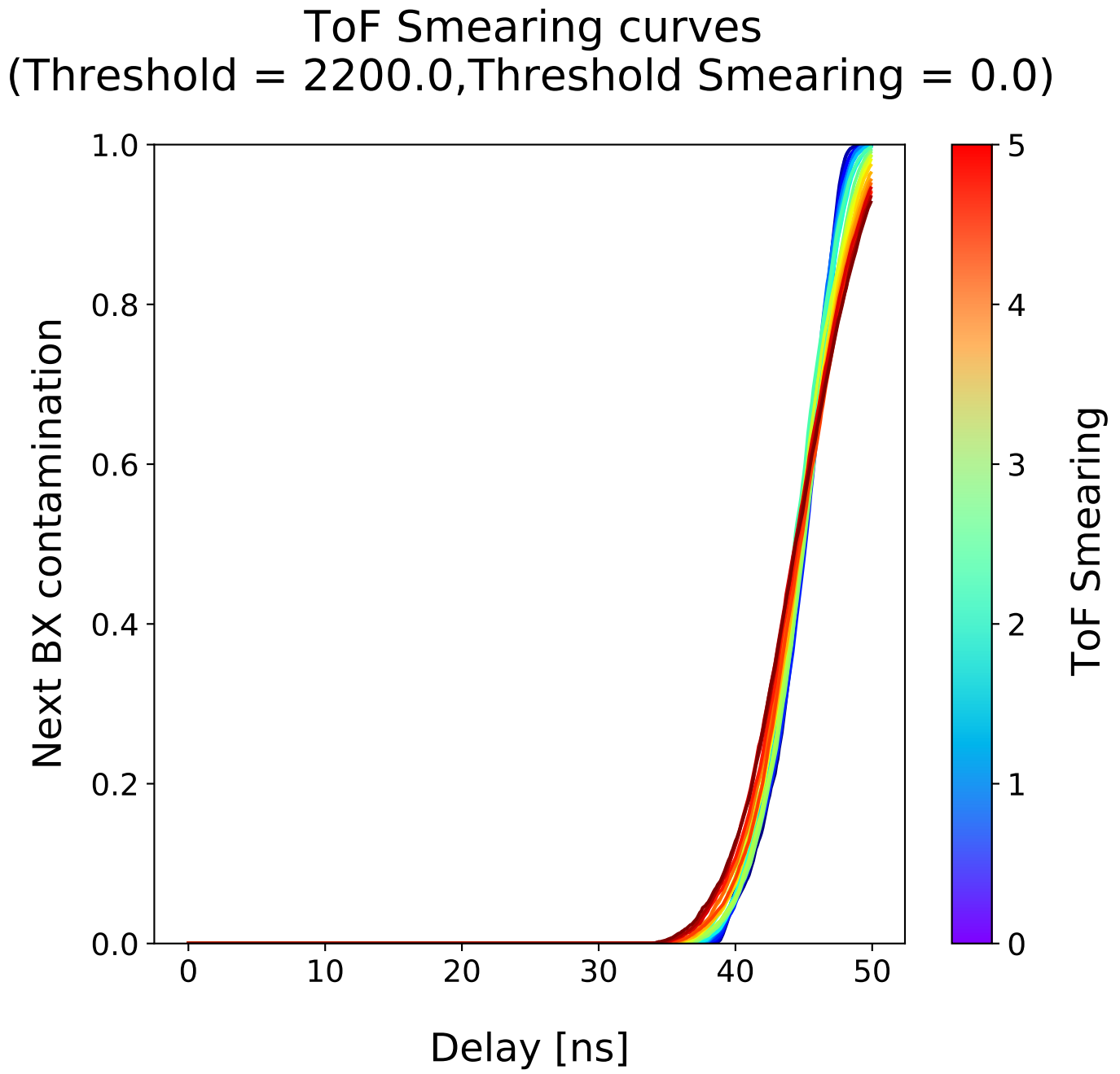

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

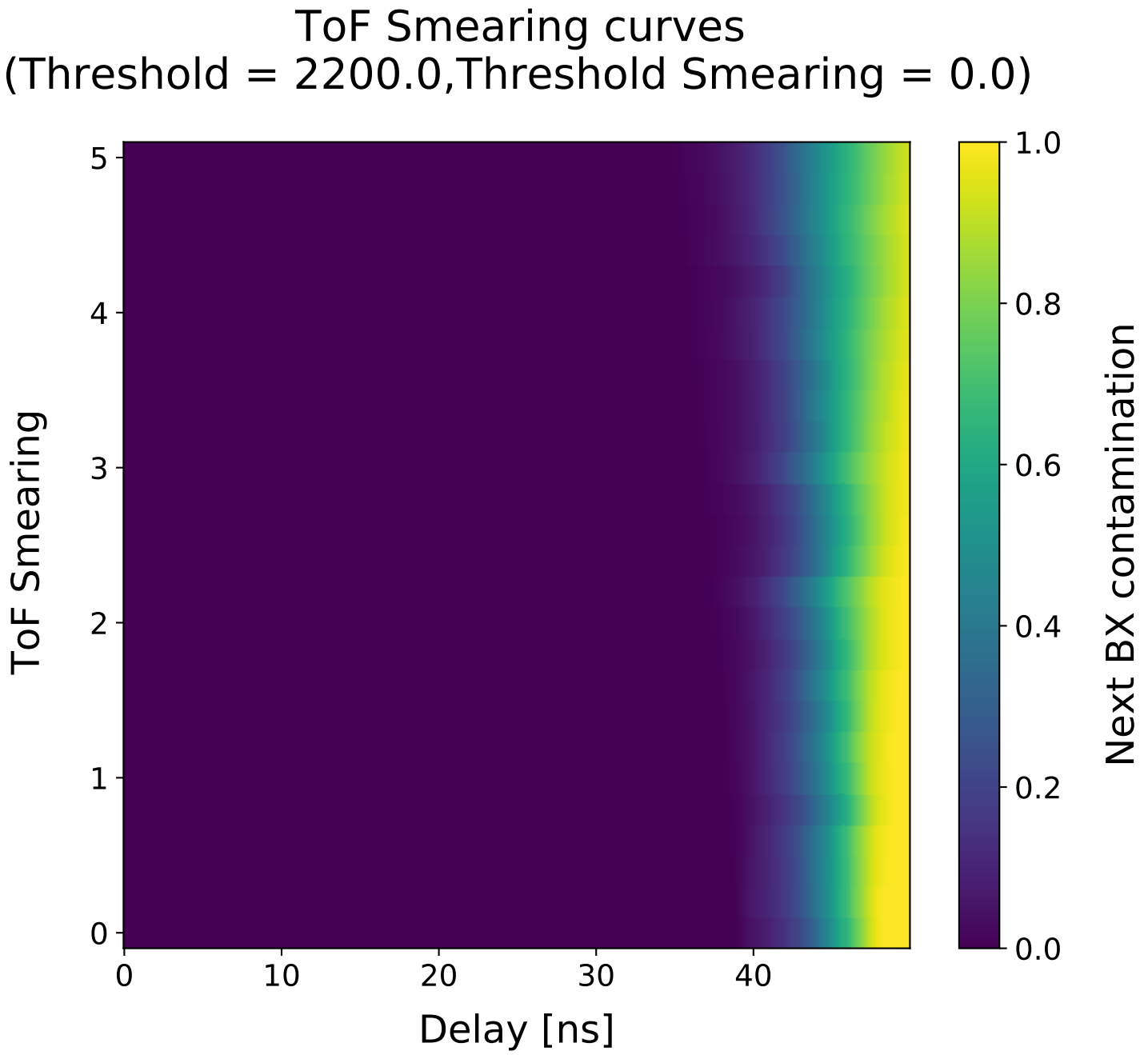

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

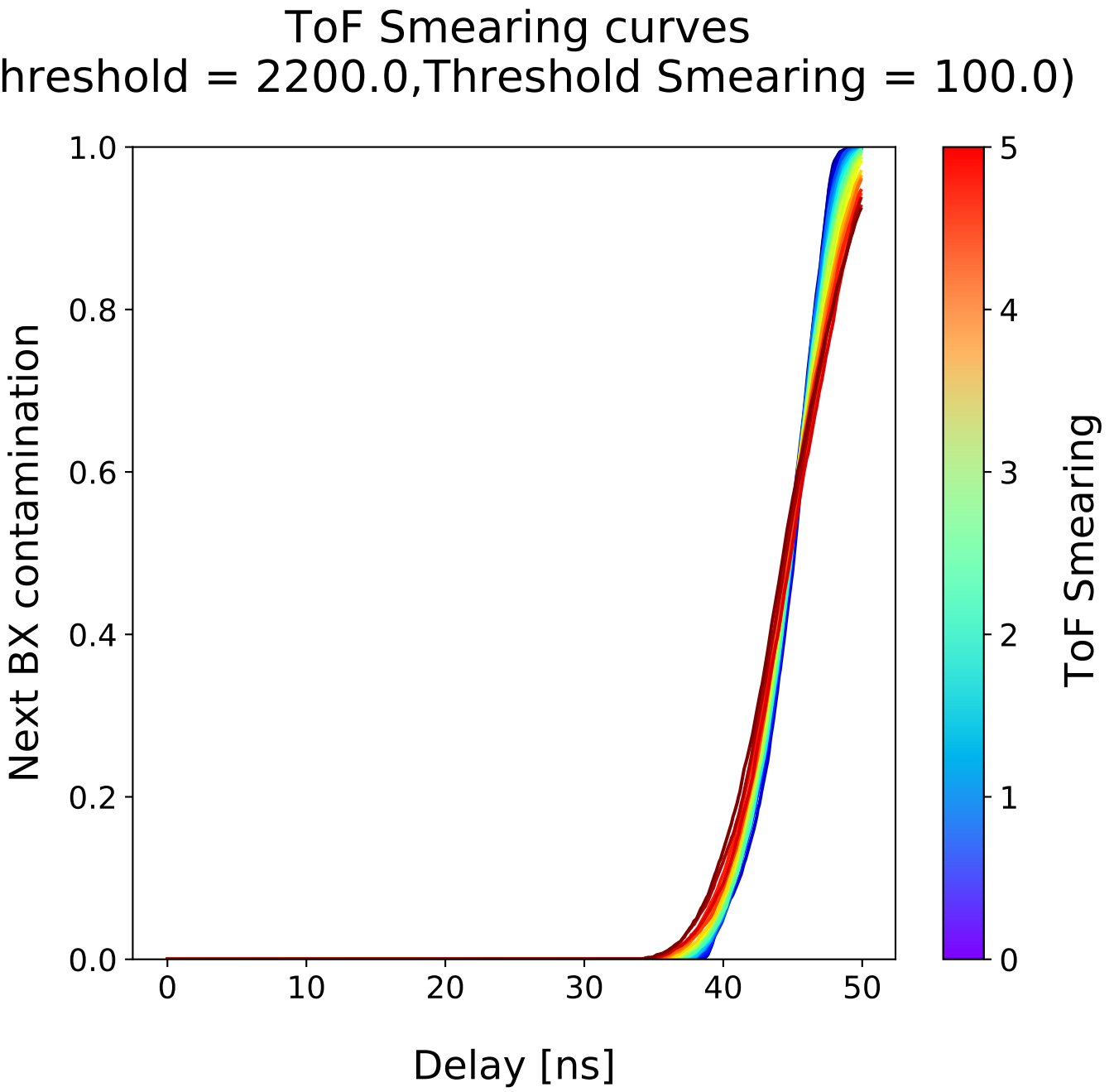

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

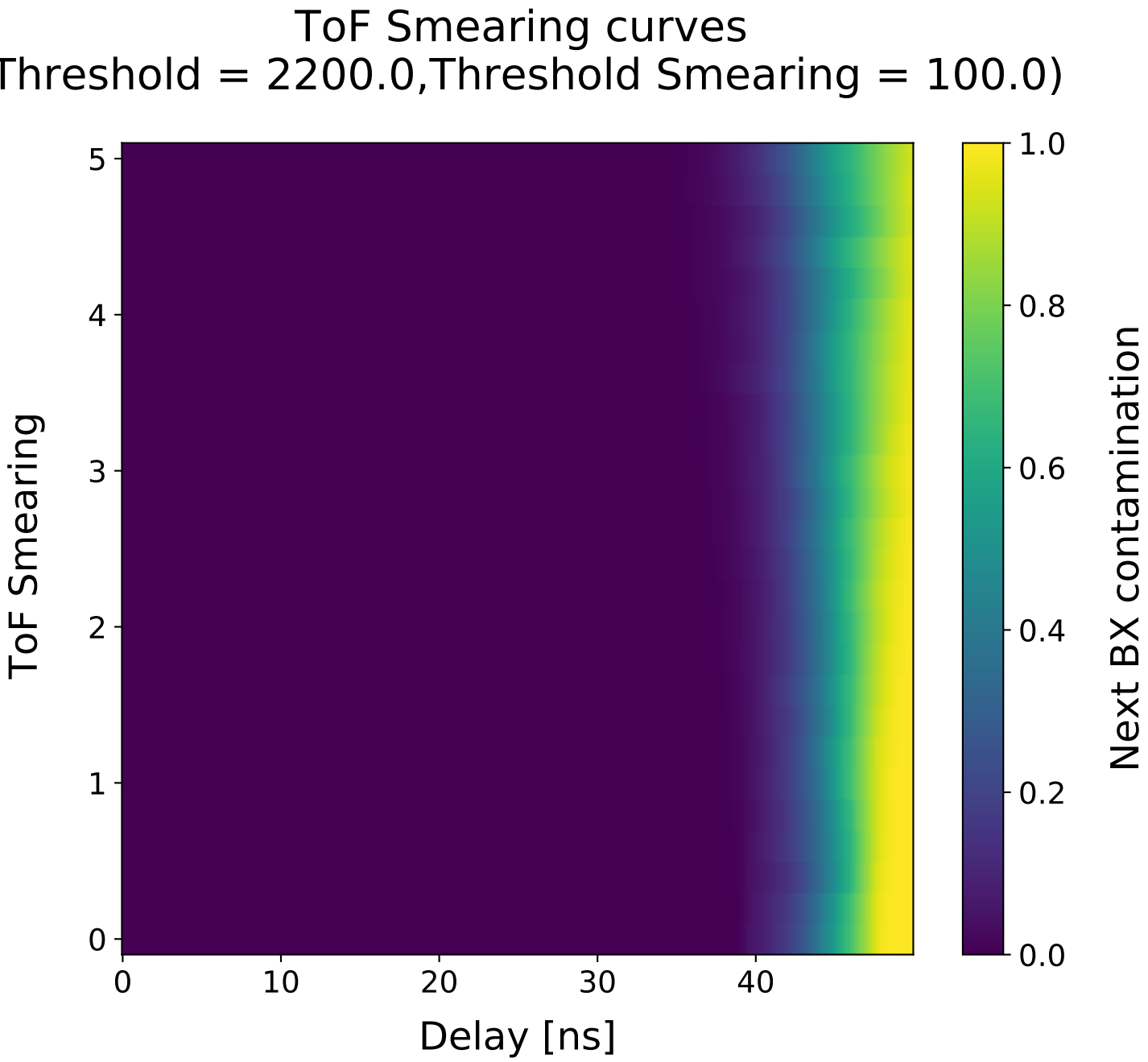

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

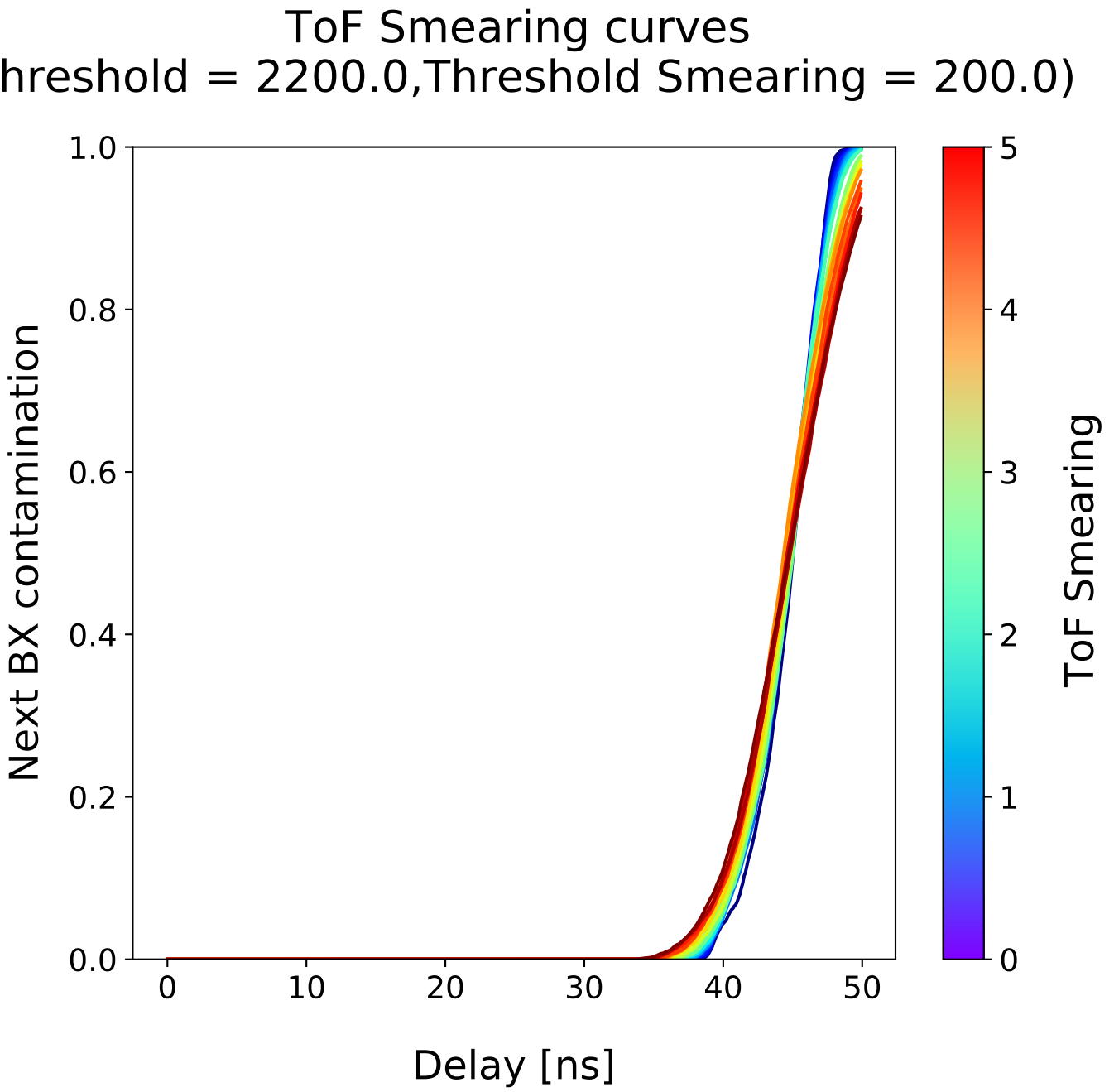

ToF Smearing curves
(Threshold = 2000.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

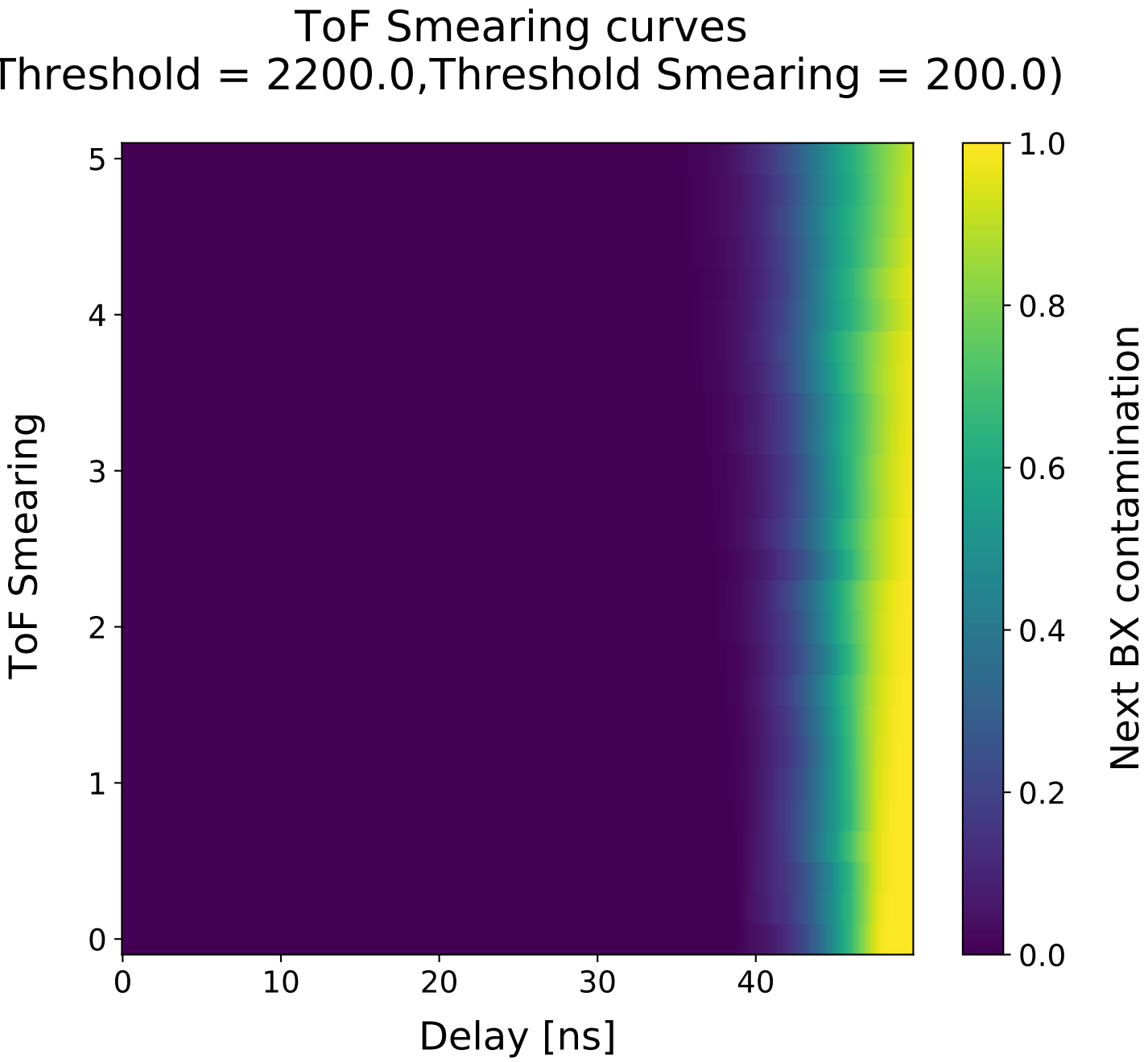

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

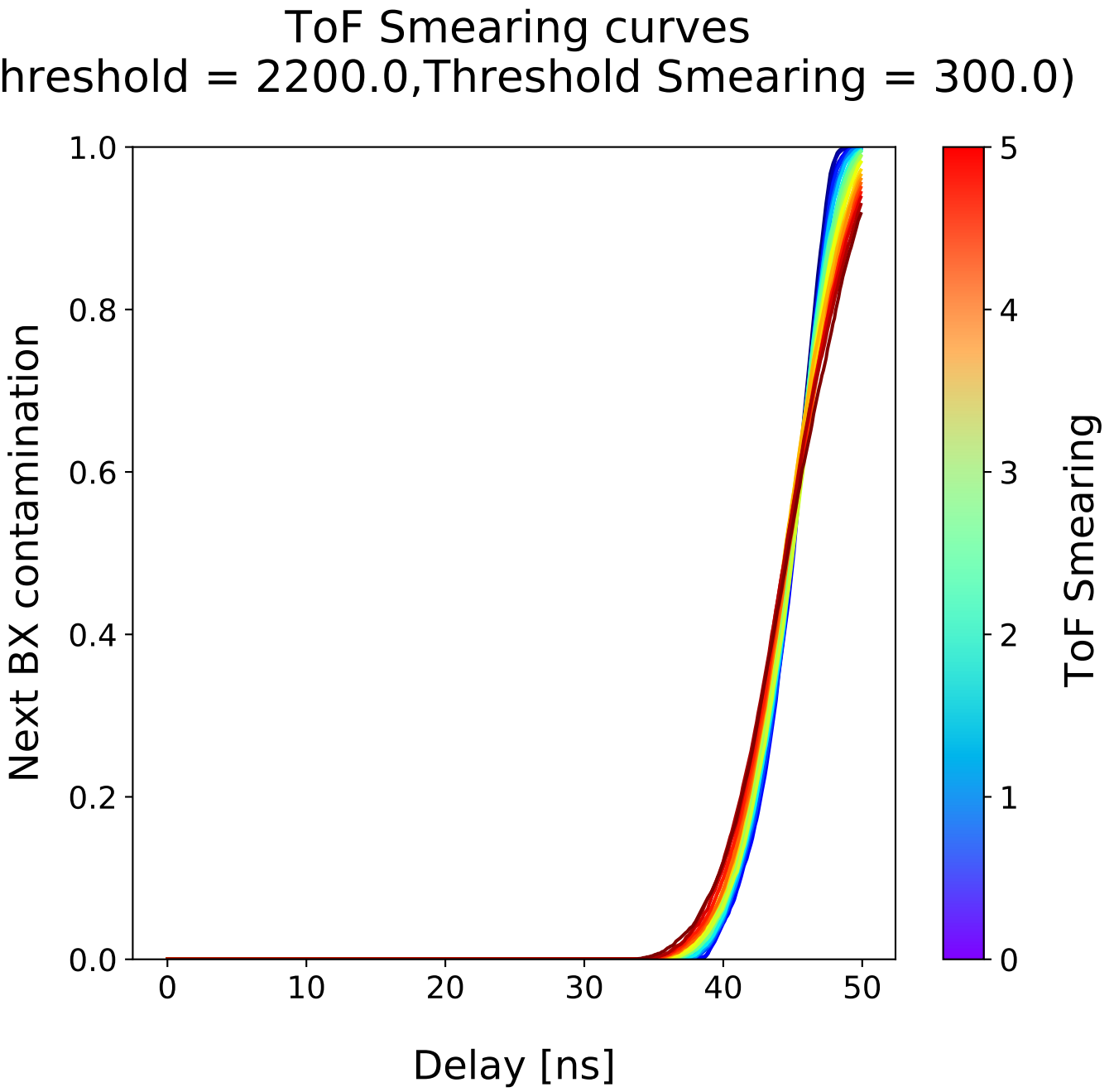

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

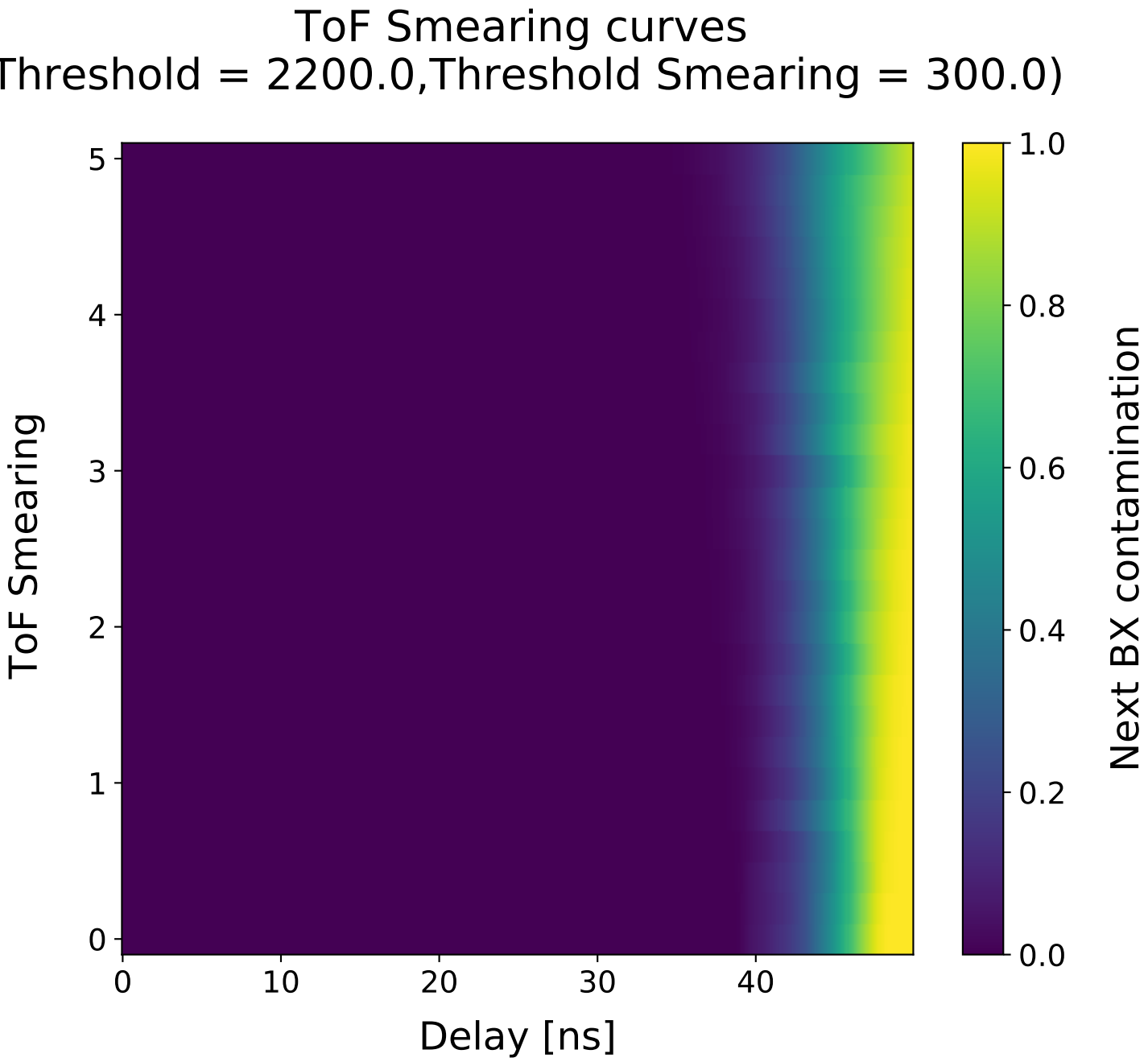

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

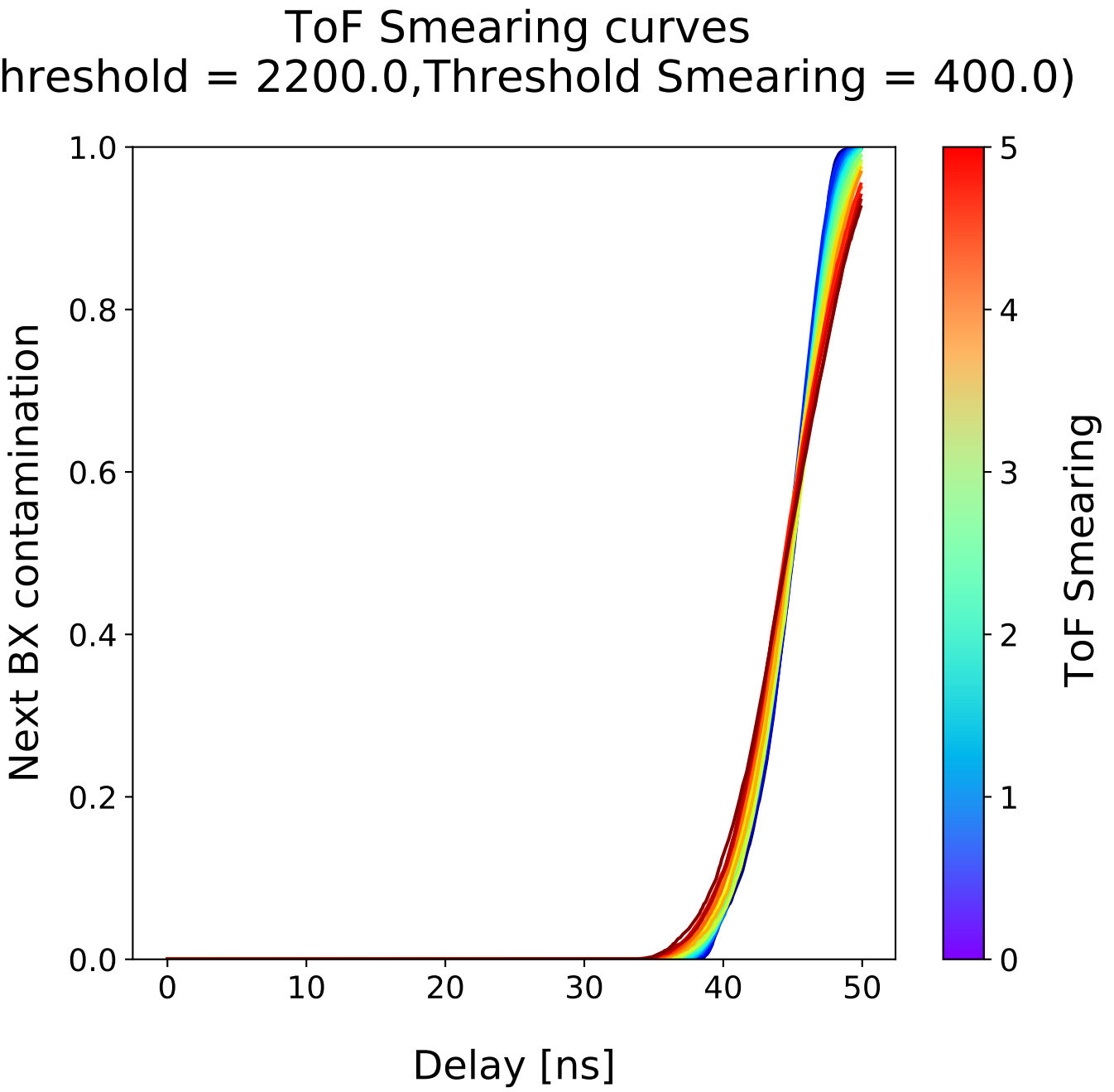

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

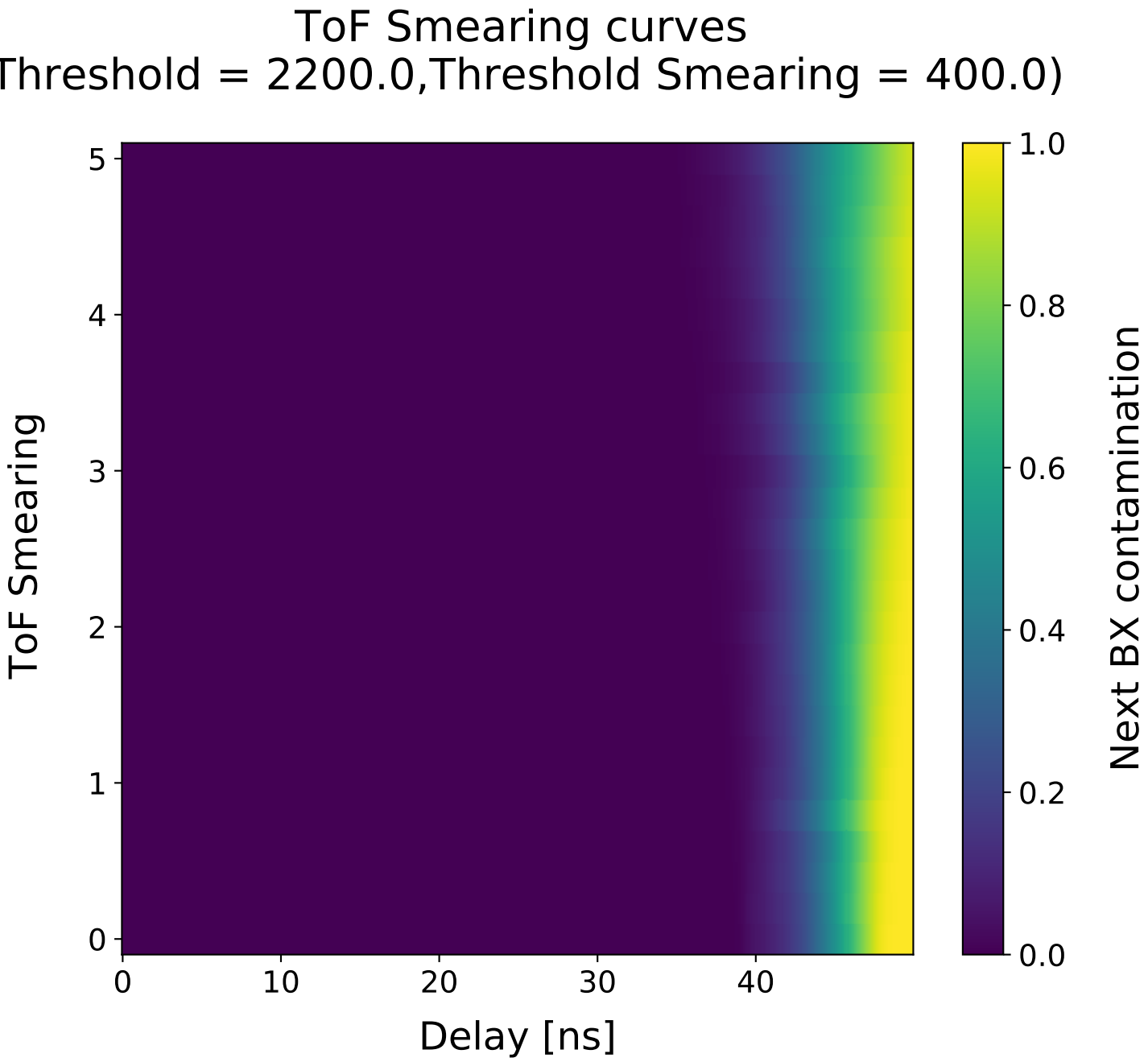

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

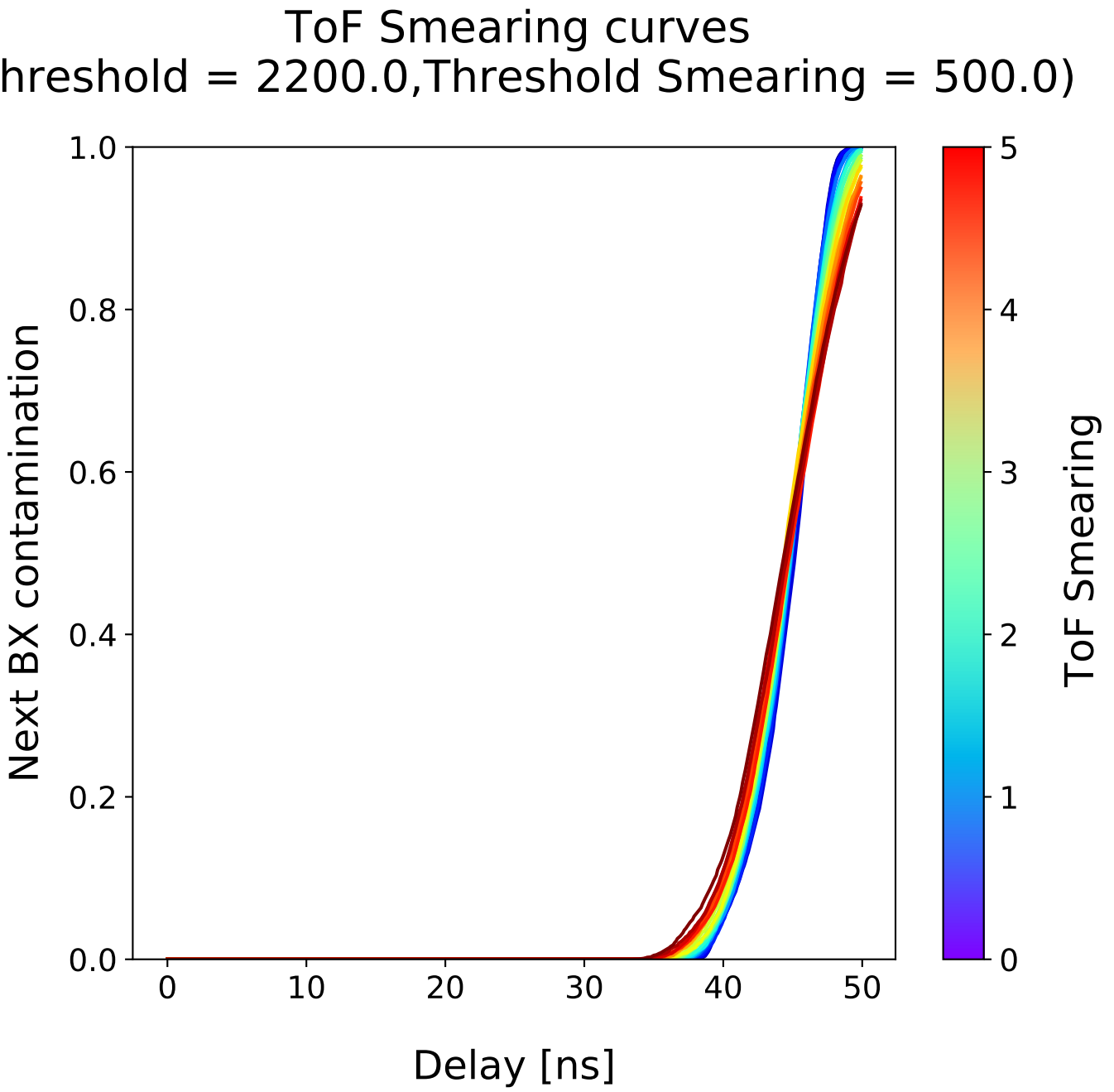

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

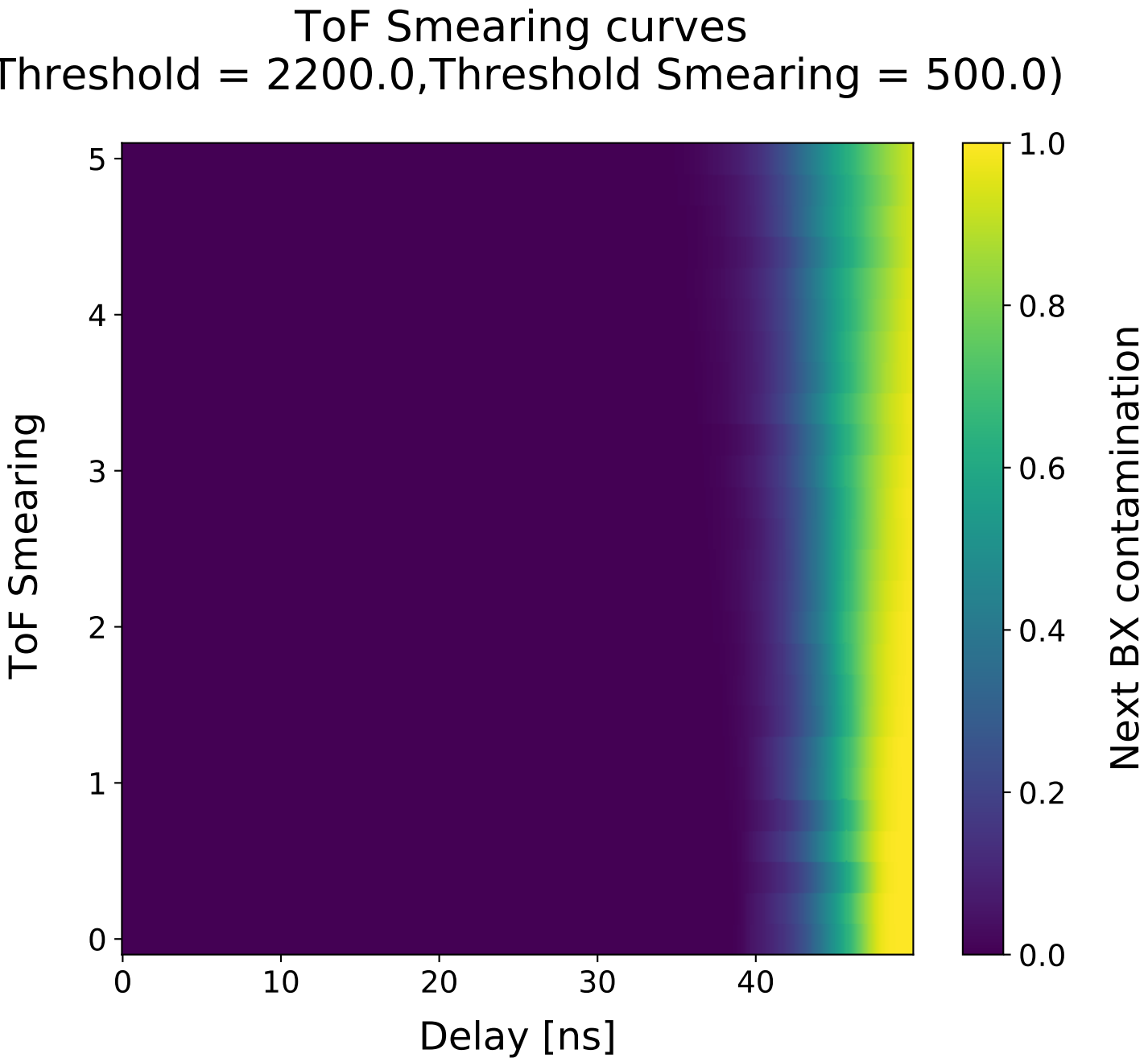

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

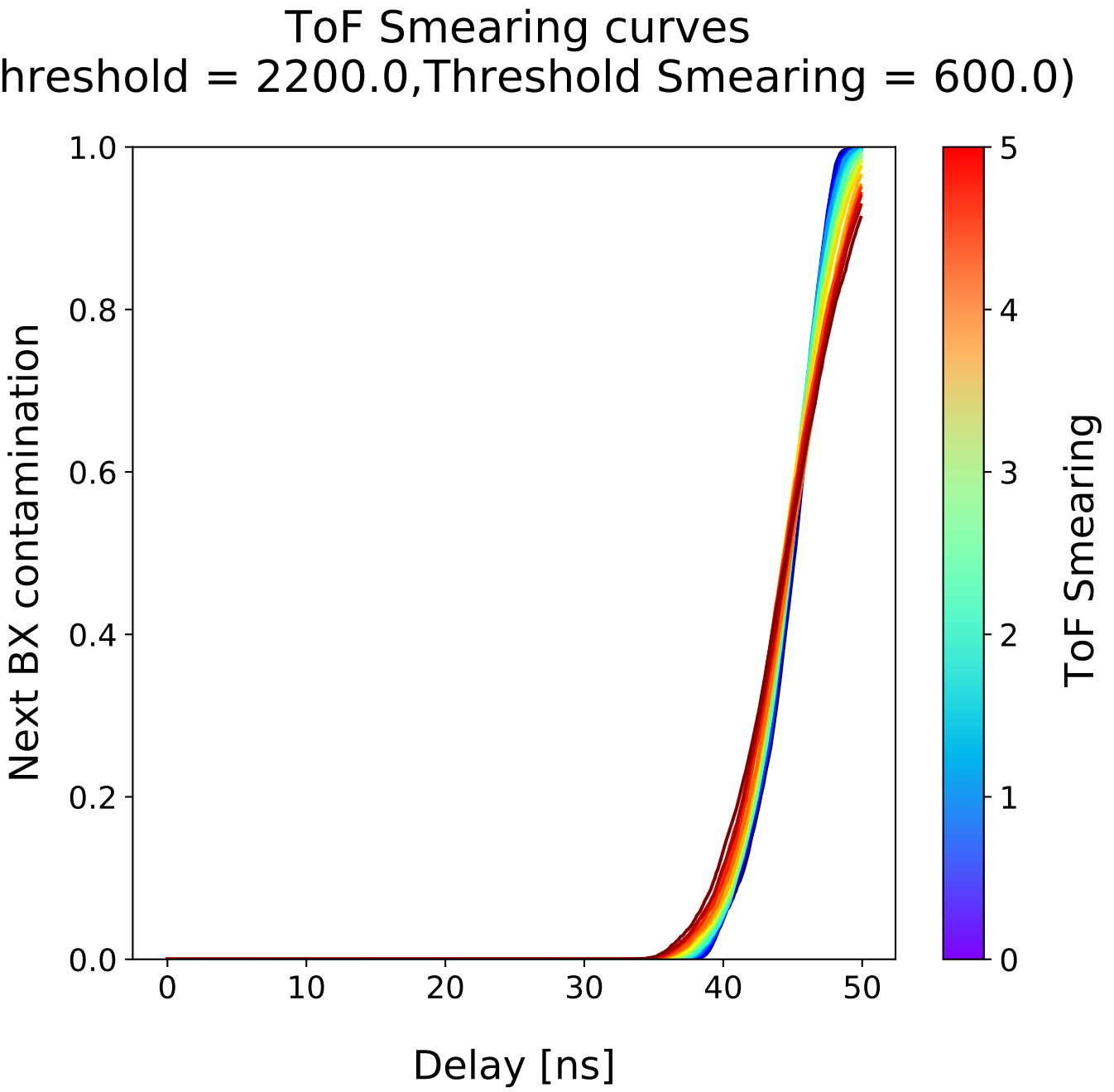

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

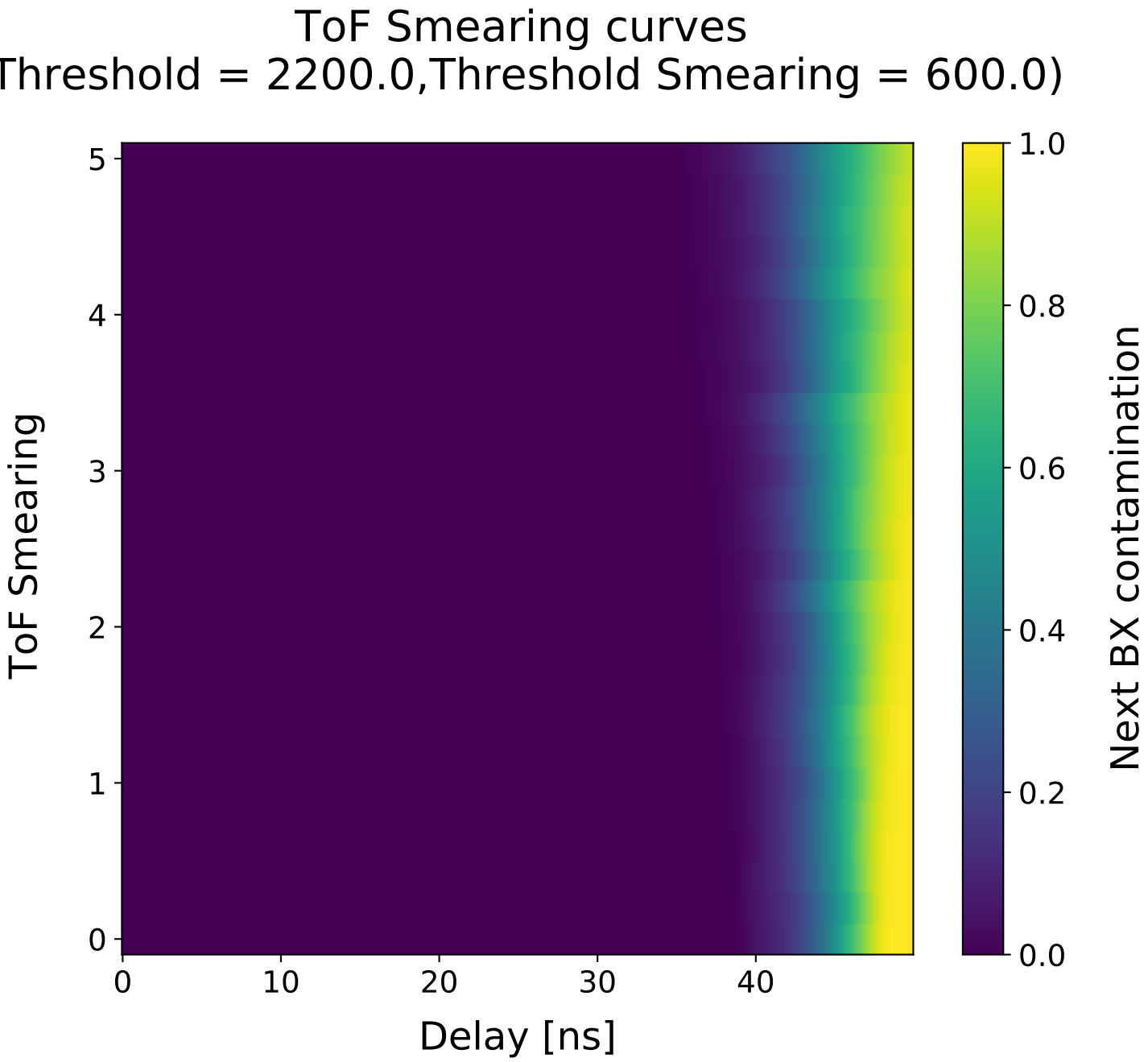

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

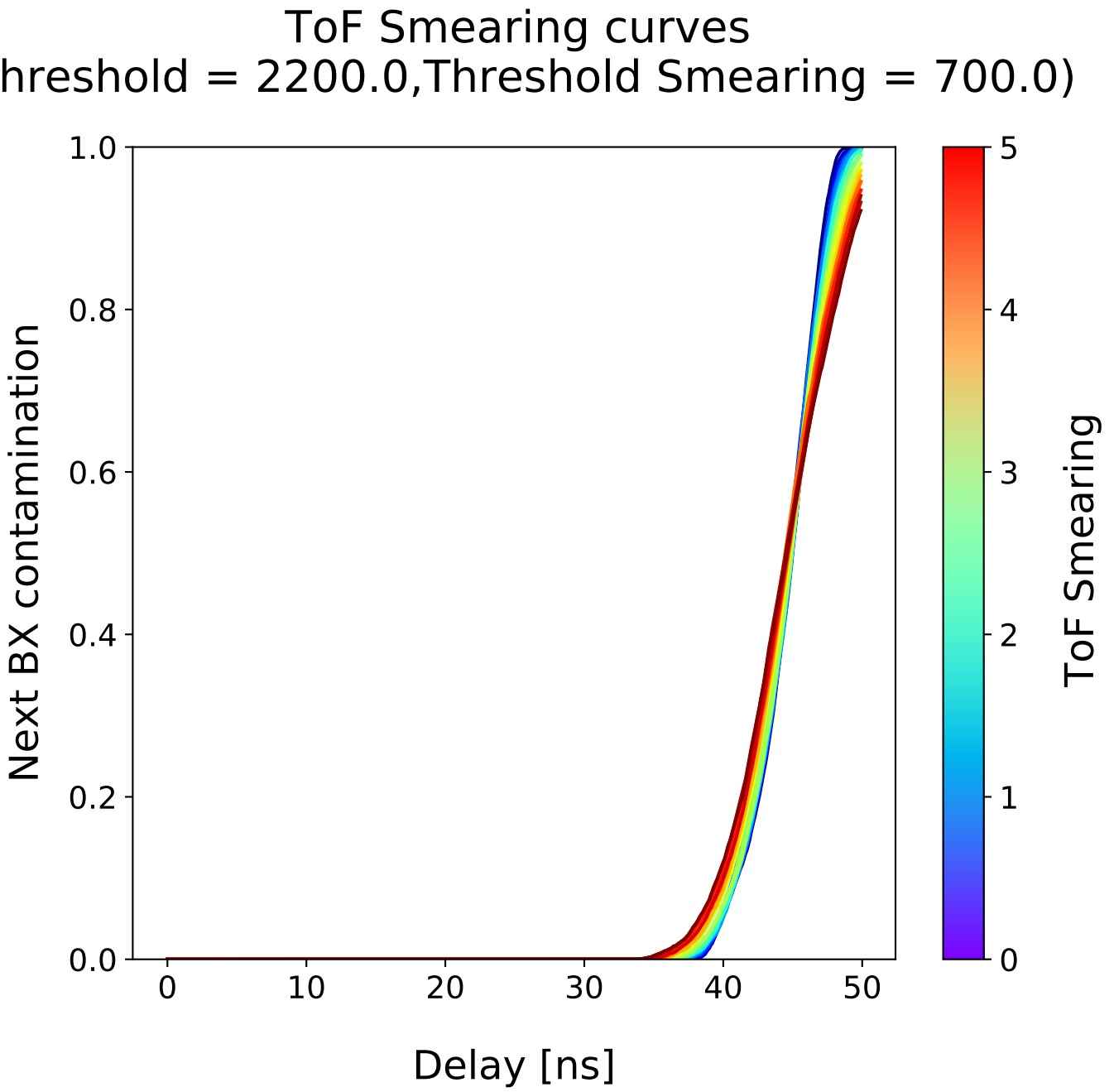

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

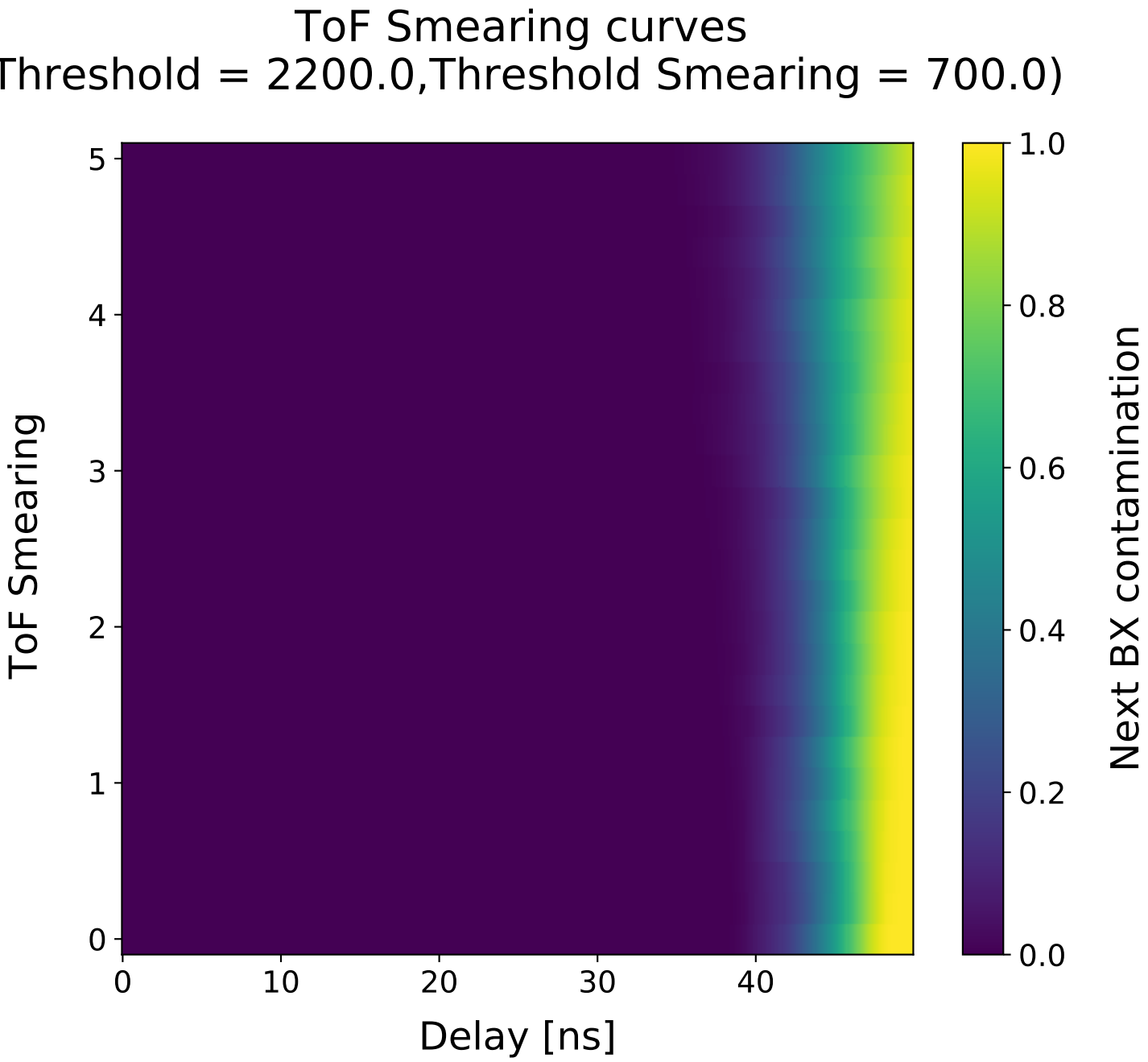

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

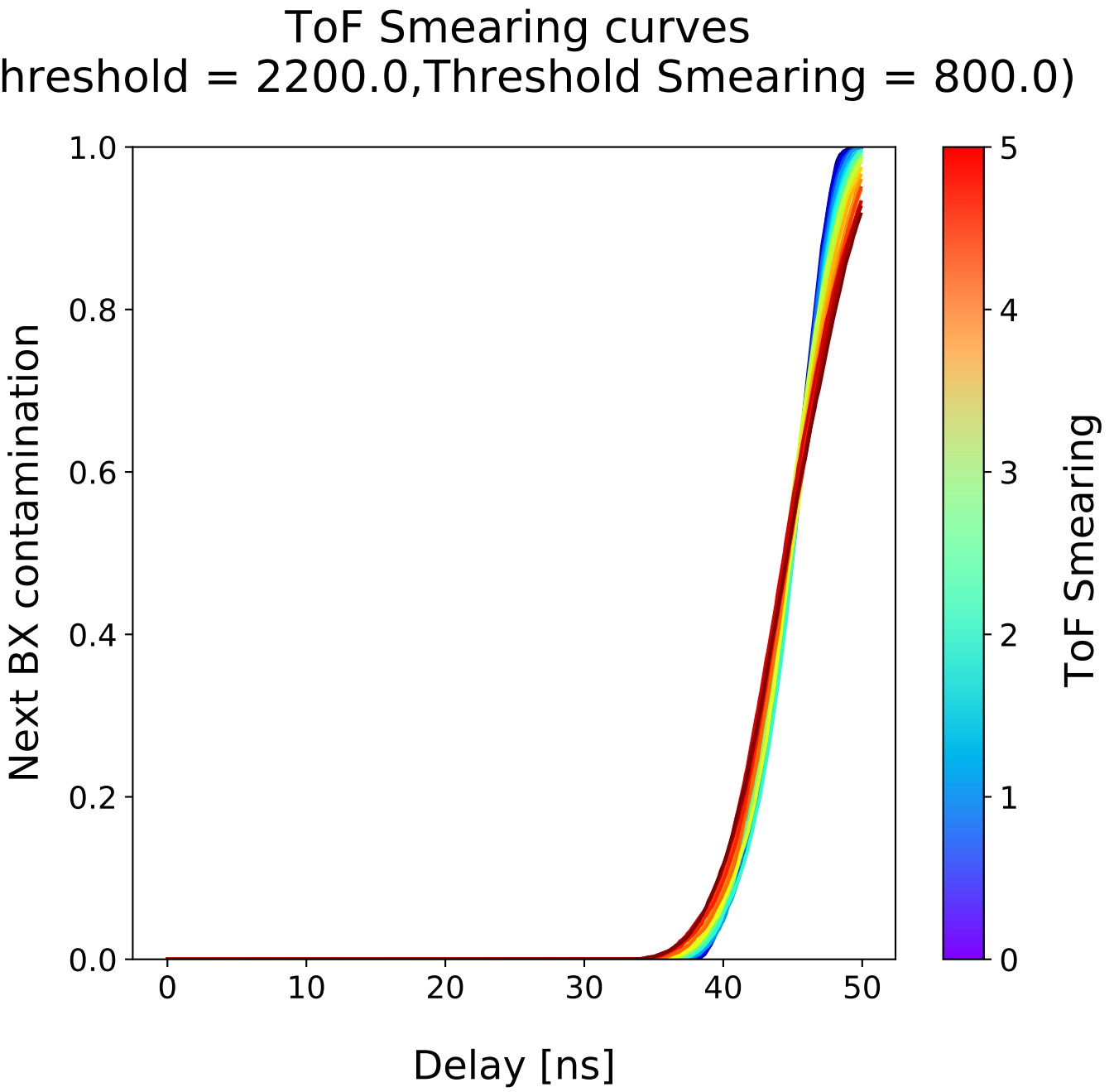

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

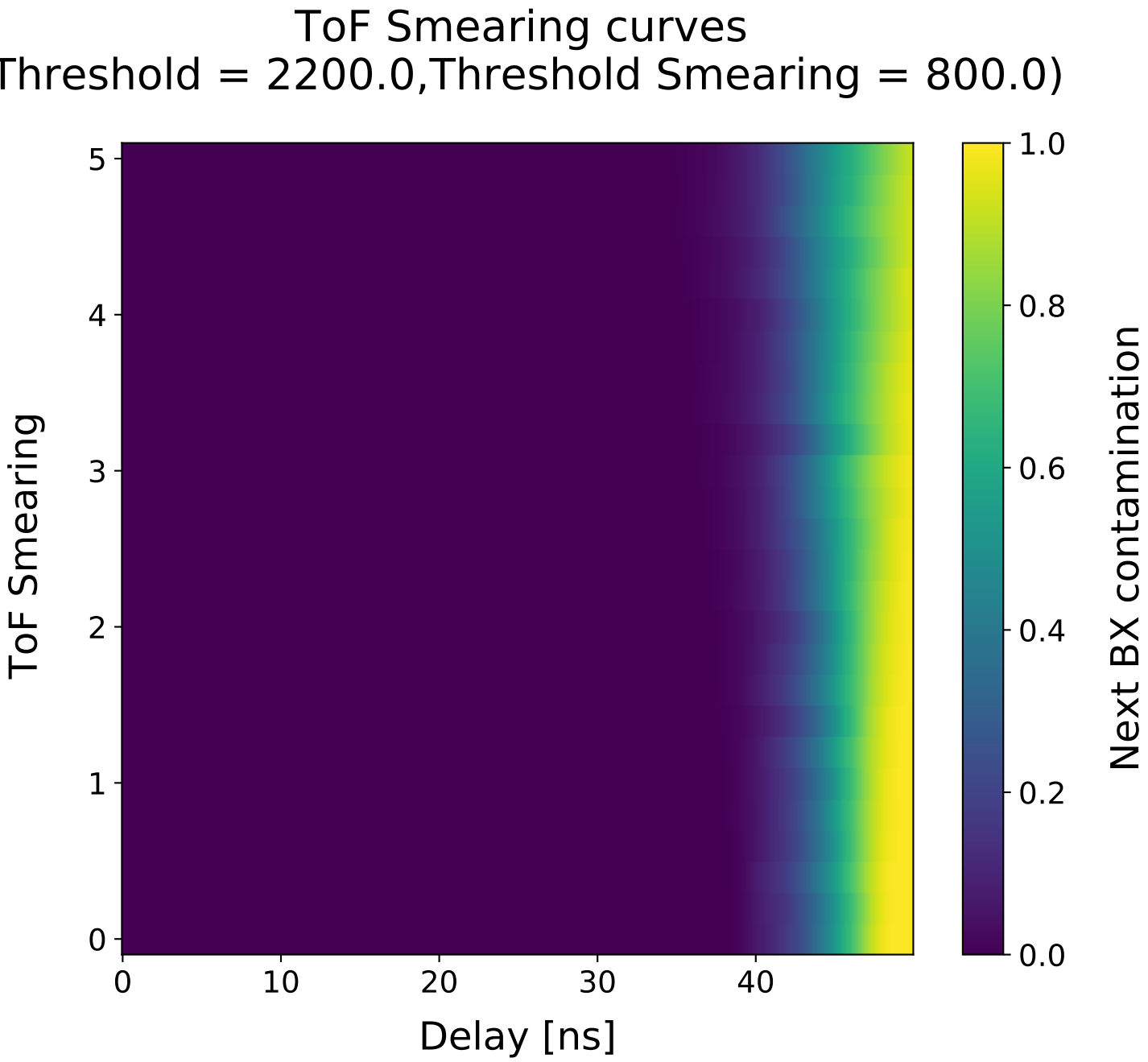

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

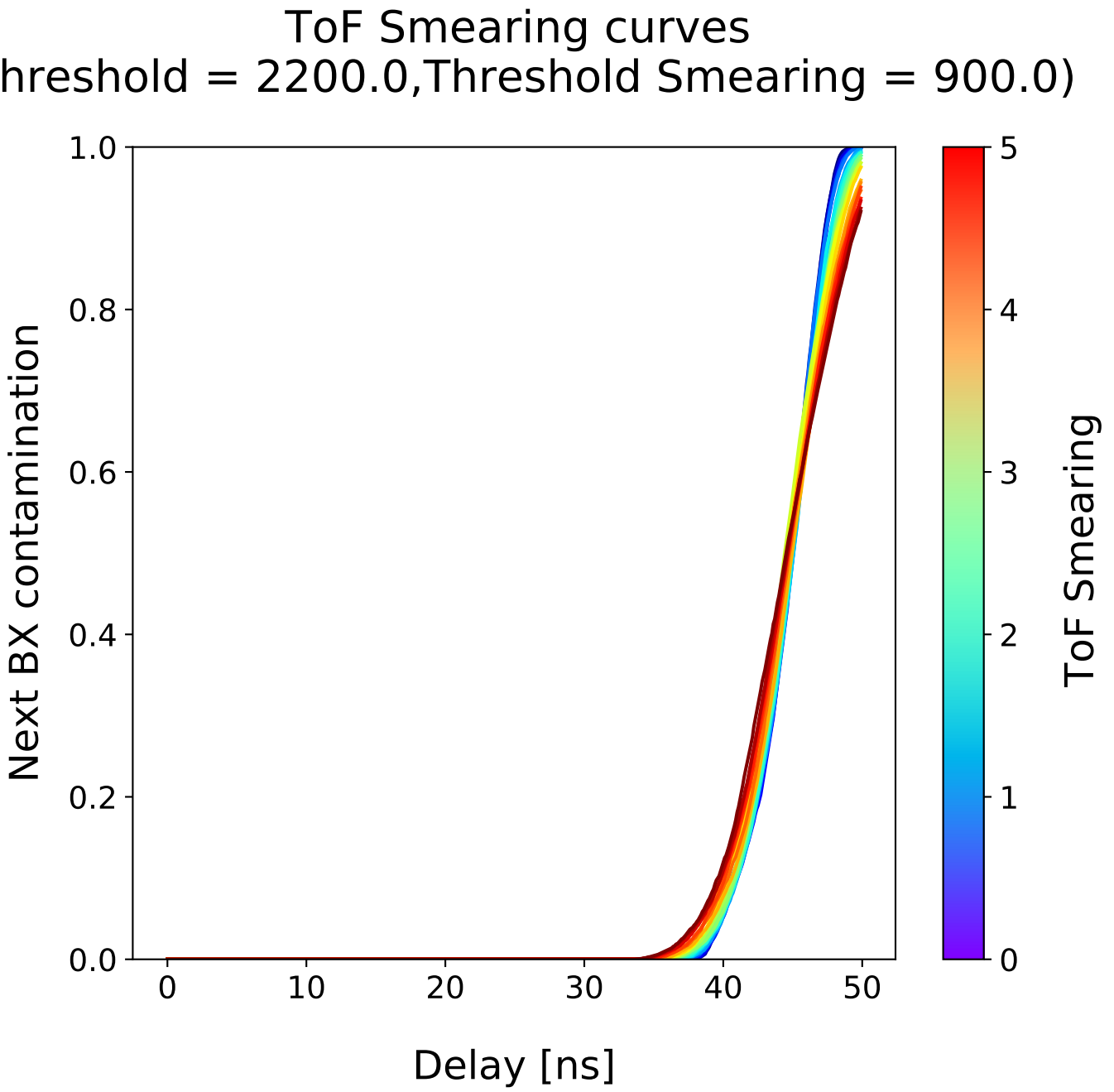

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

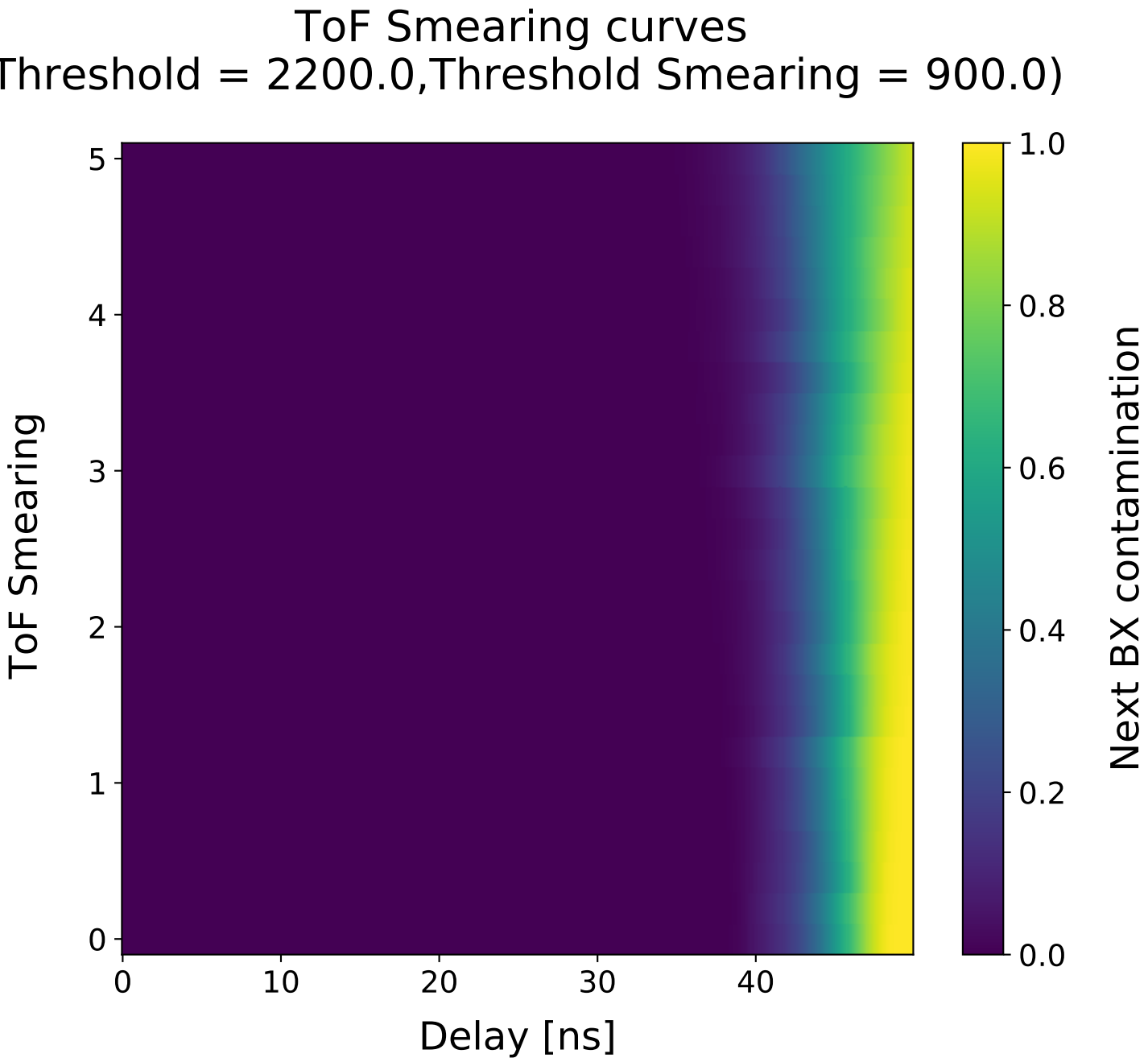

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

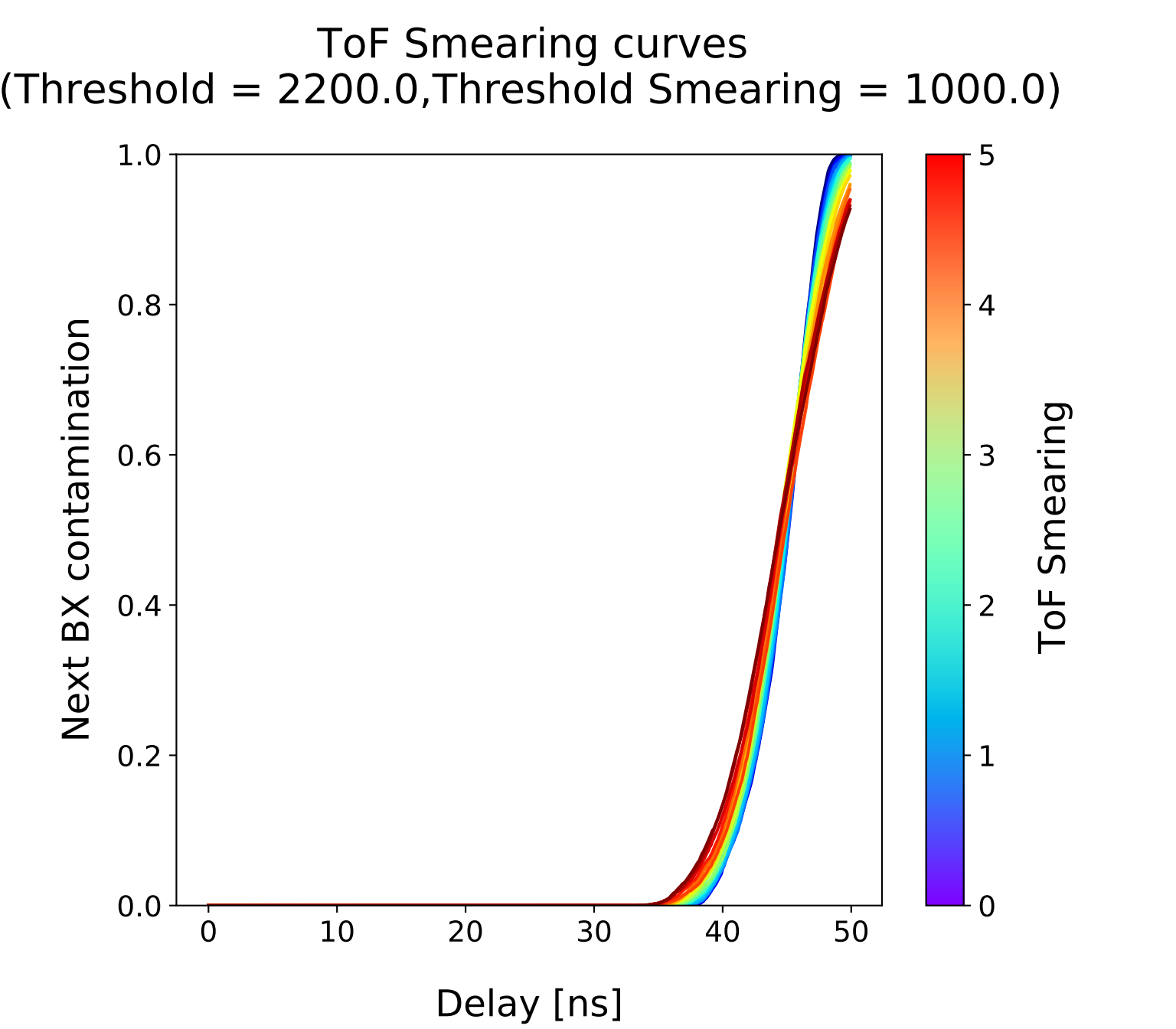

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

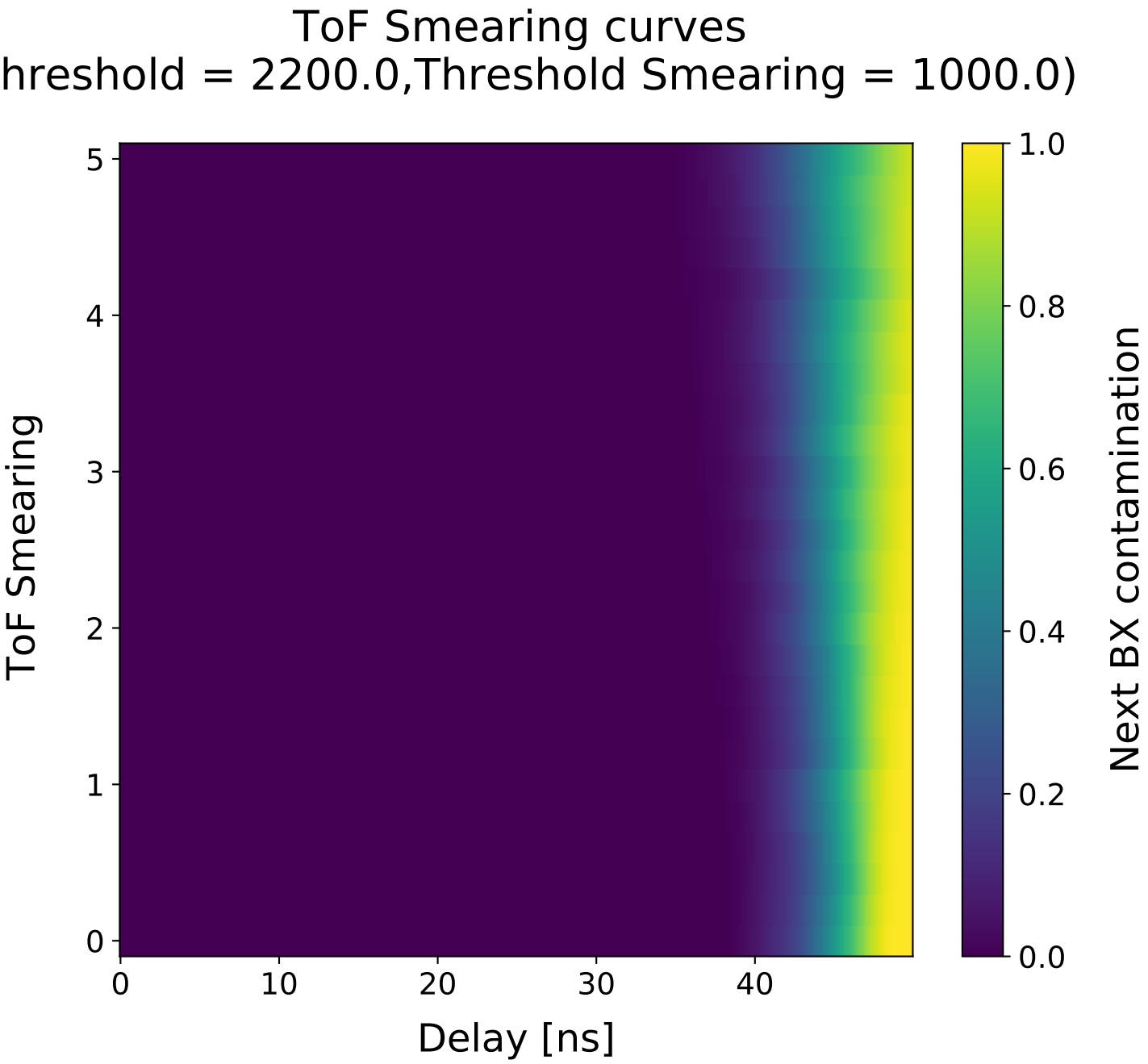

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

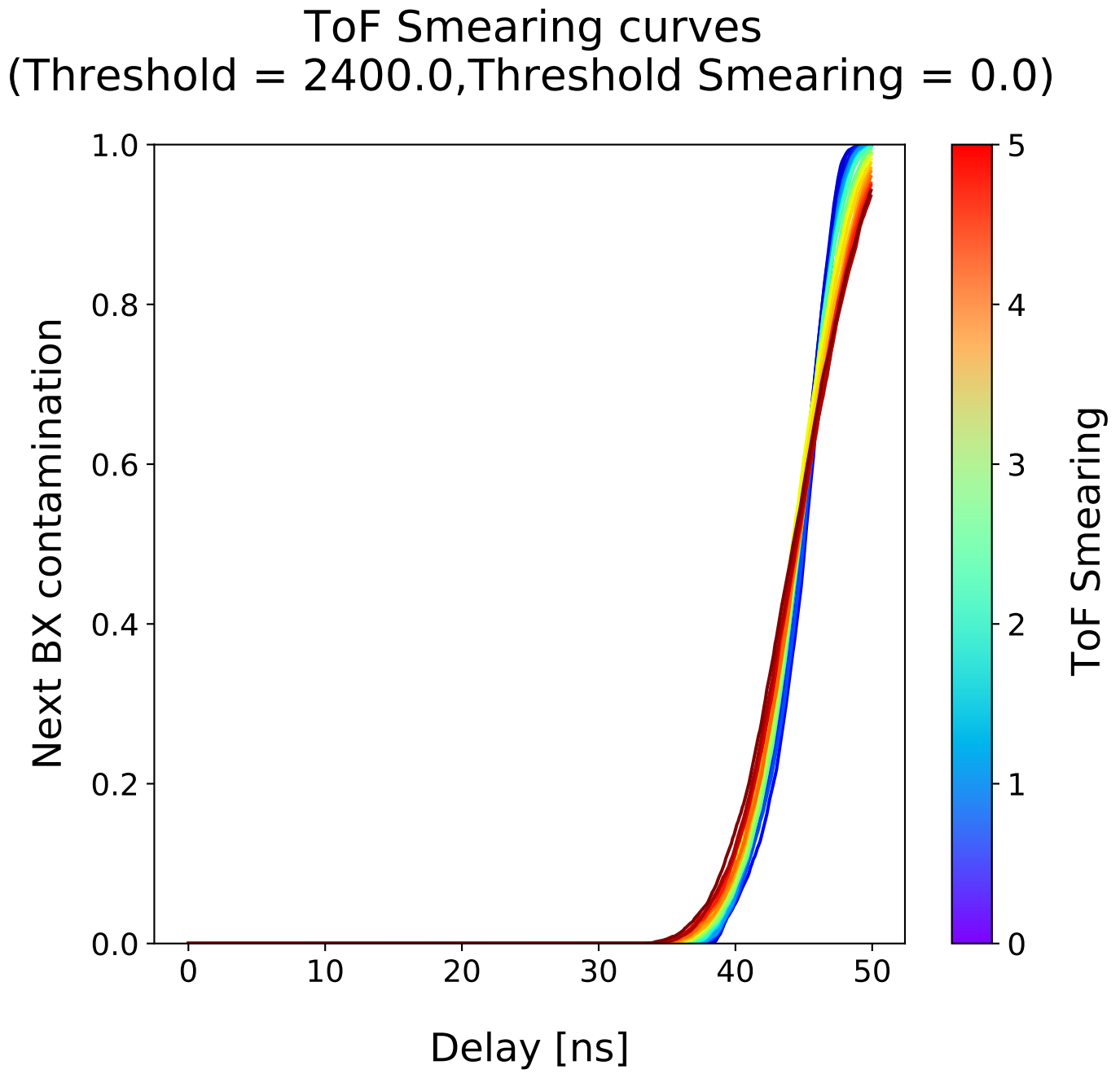

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

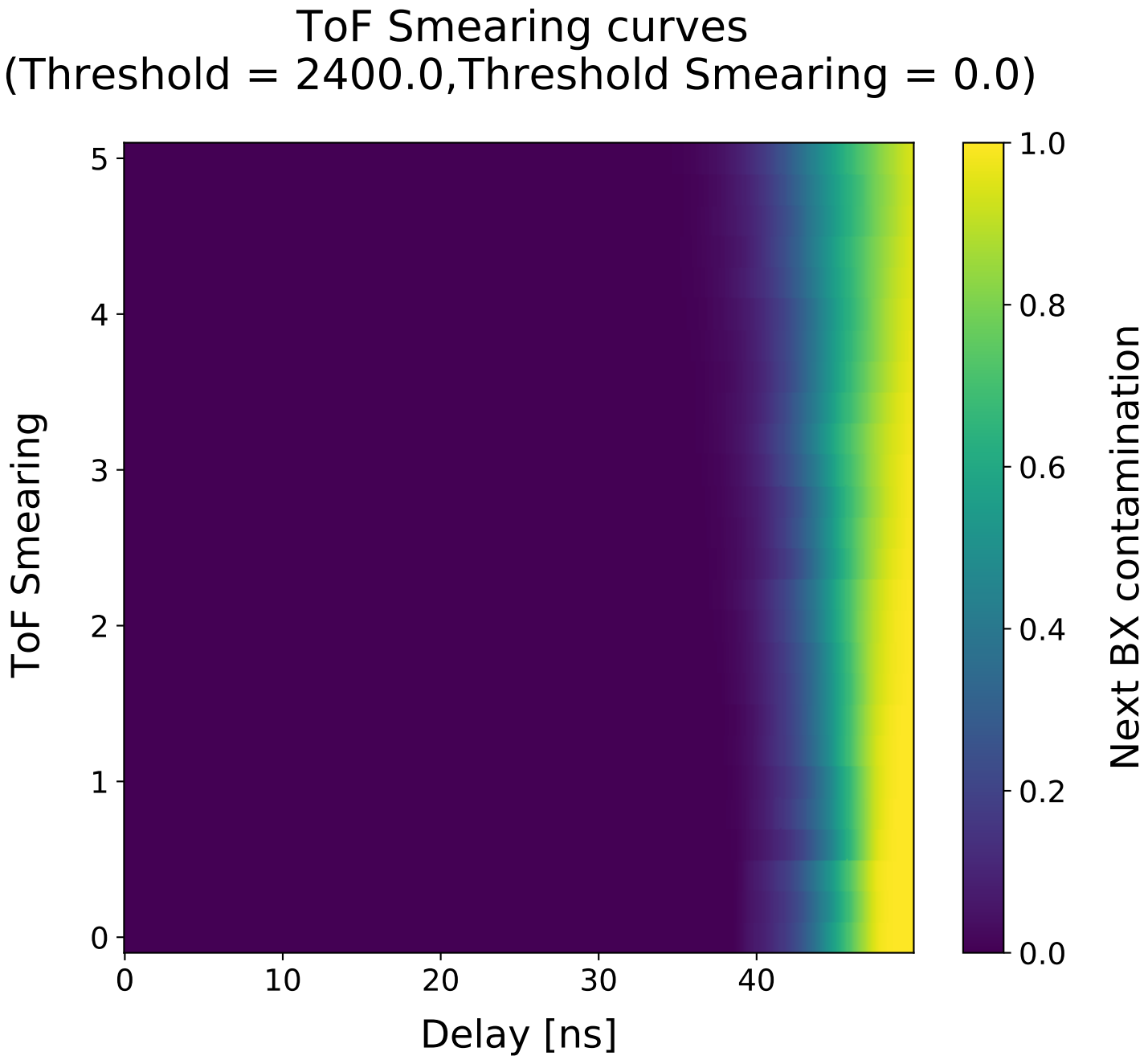

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

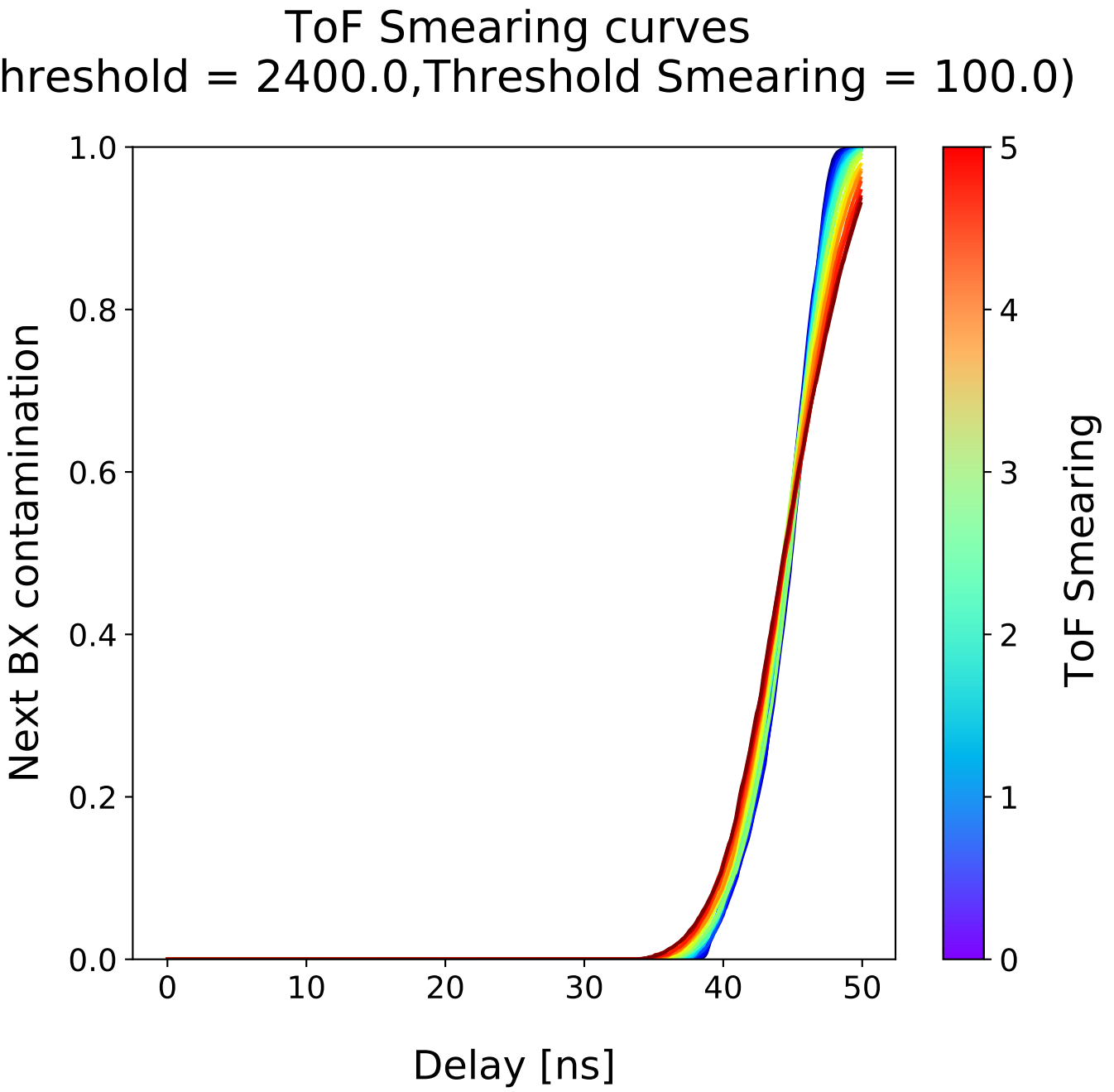

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

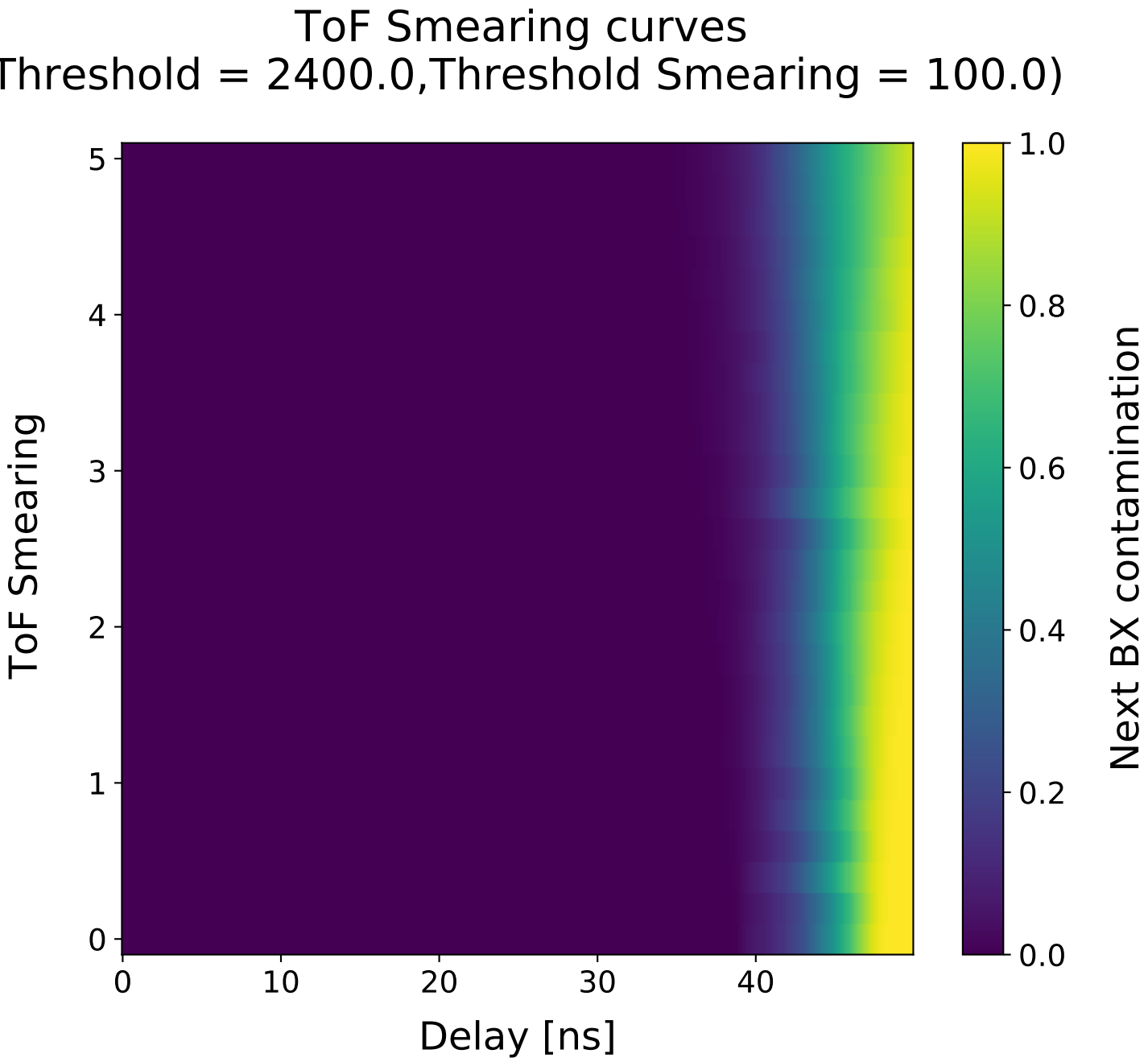

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

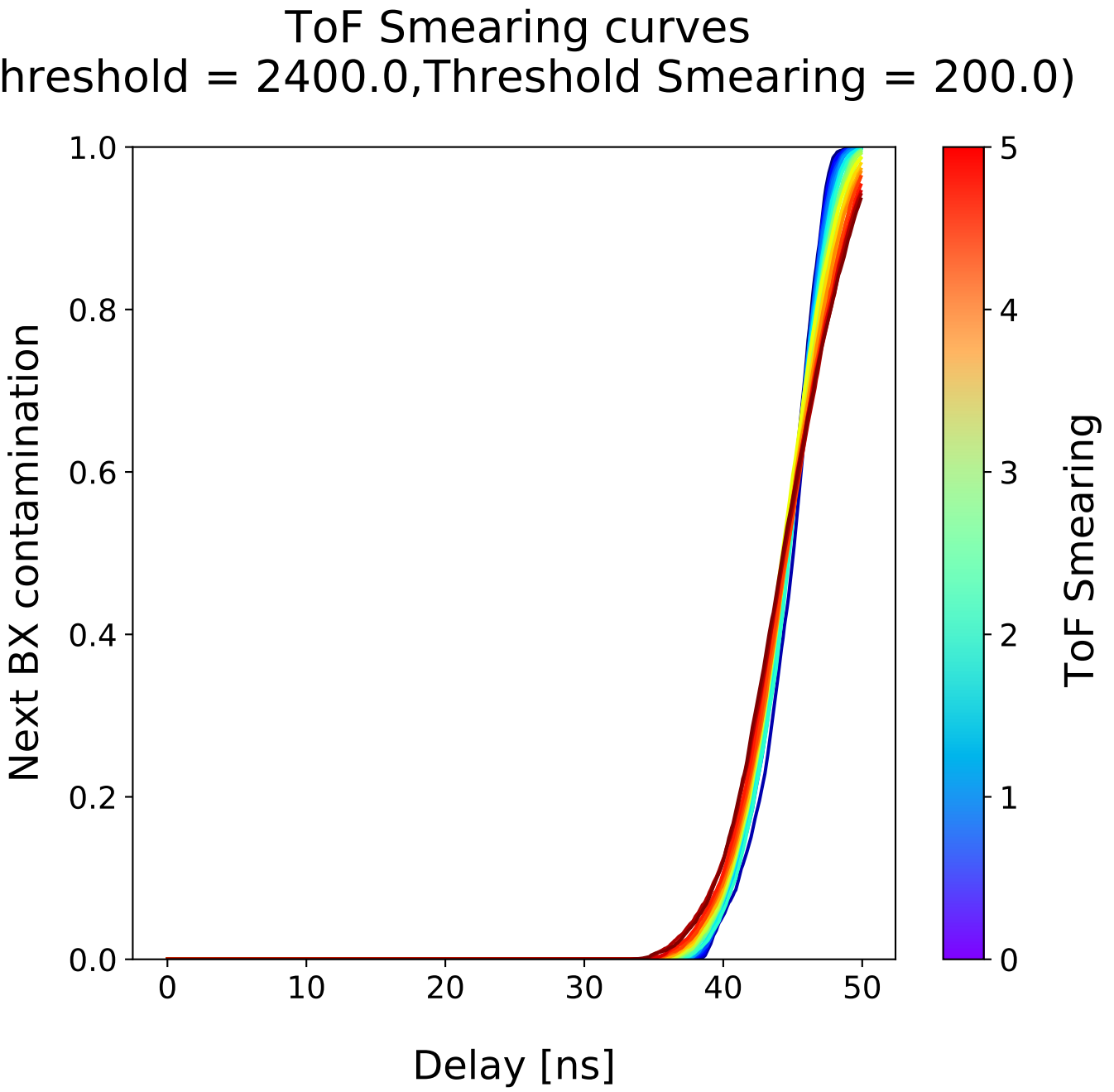

ToF Smearing curves
(Threshold = 2200.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

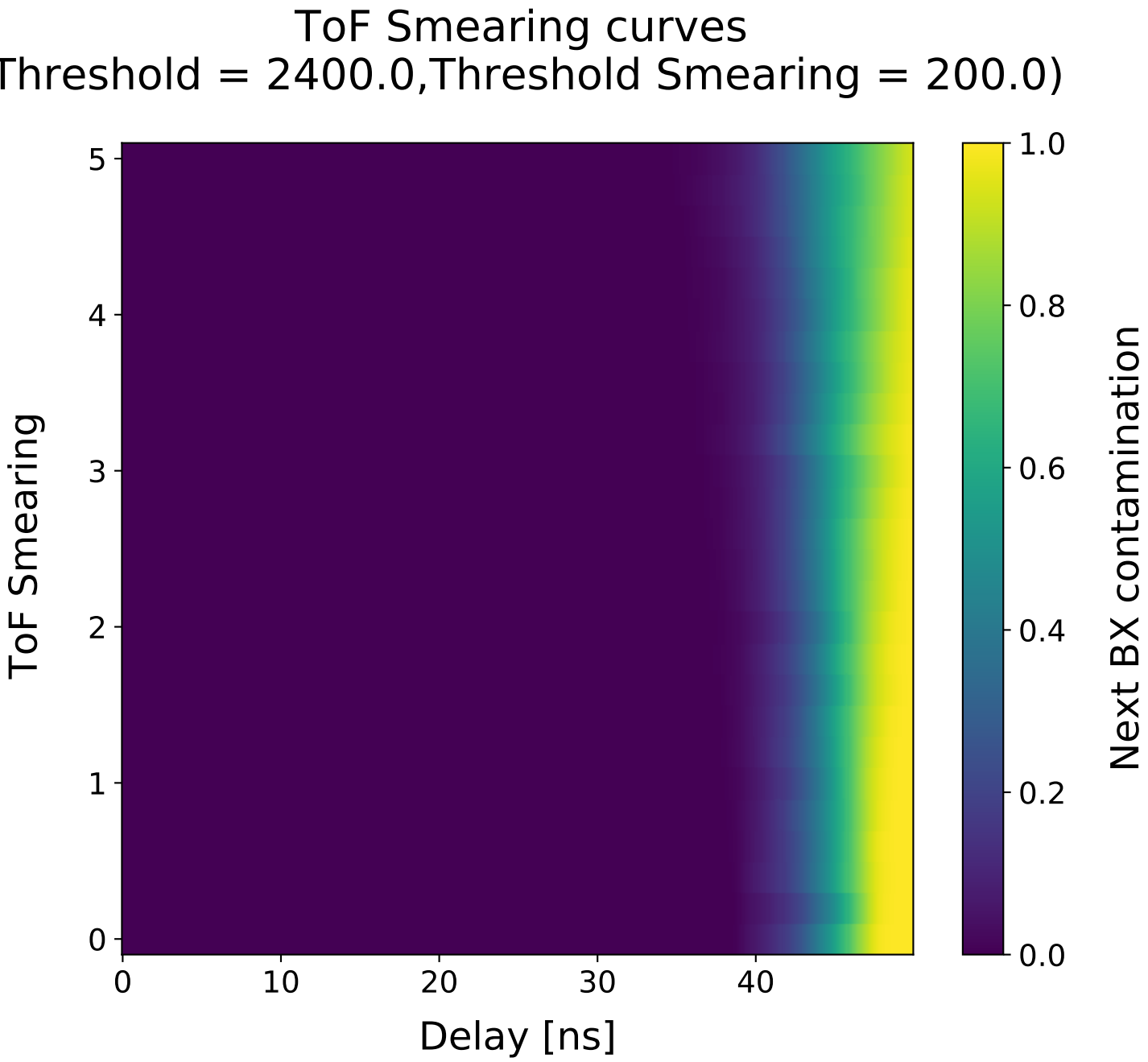

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

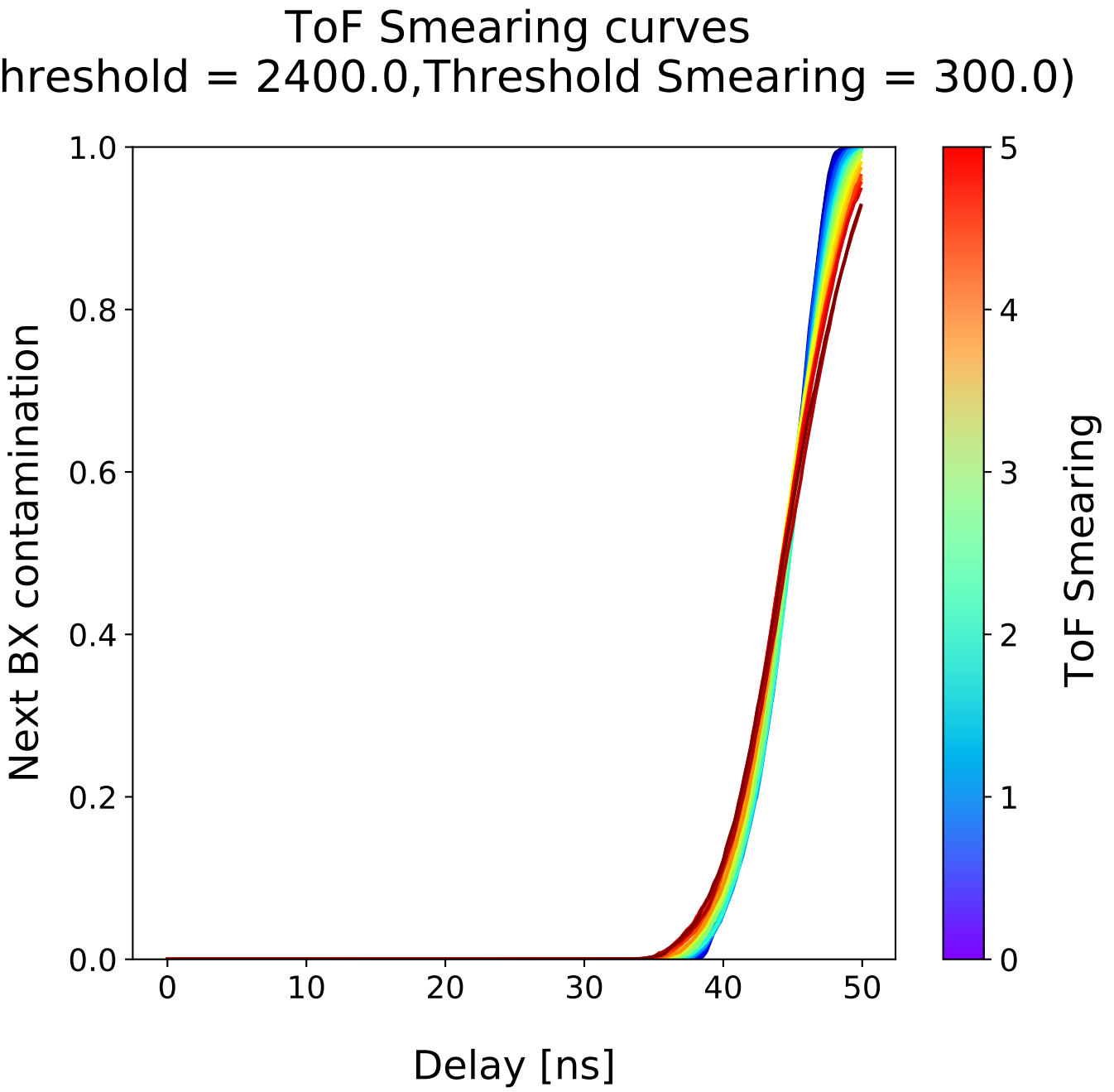

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

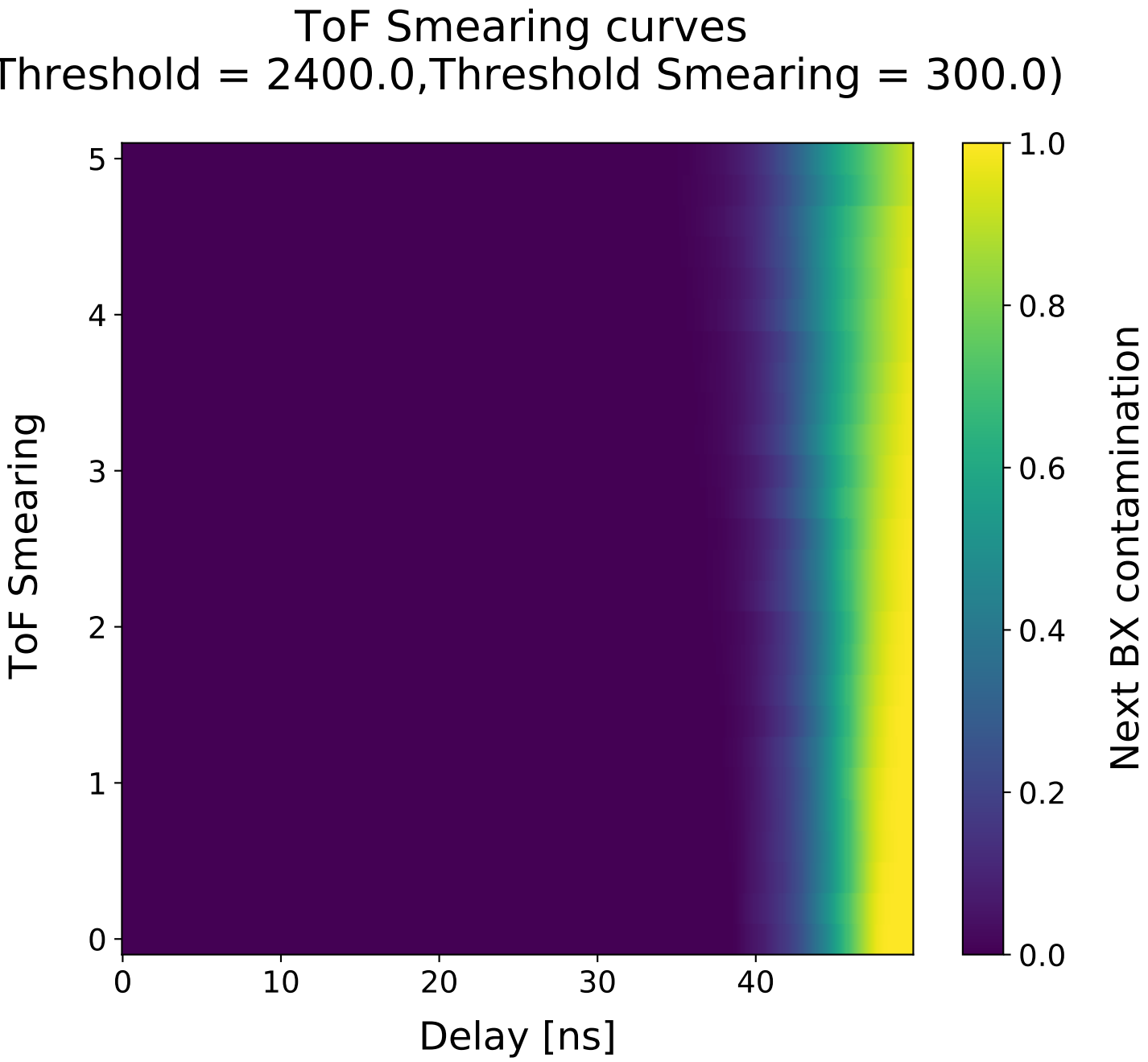

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

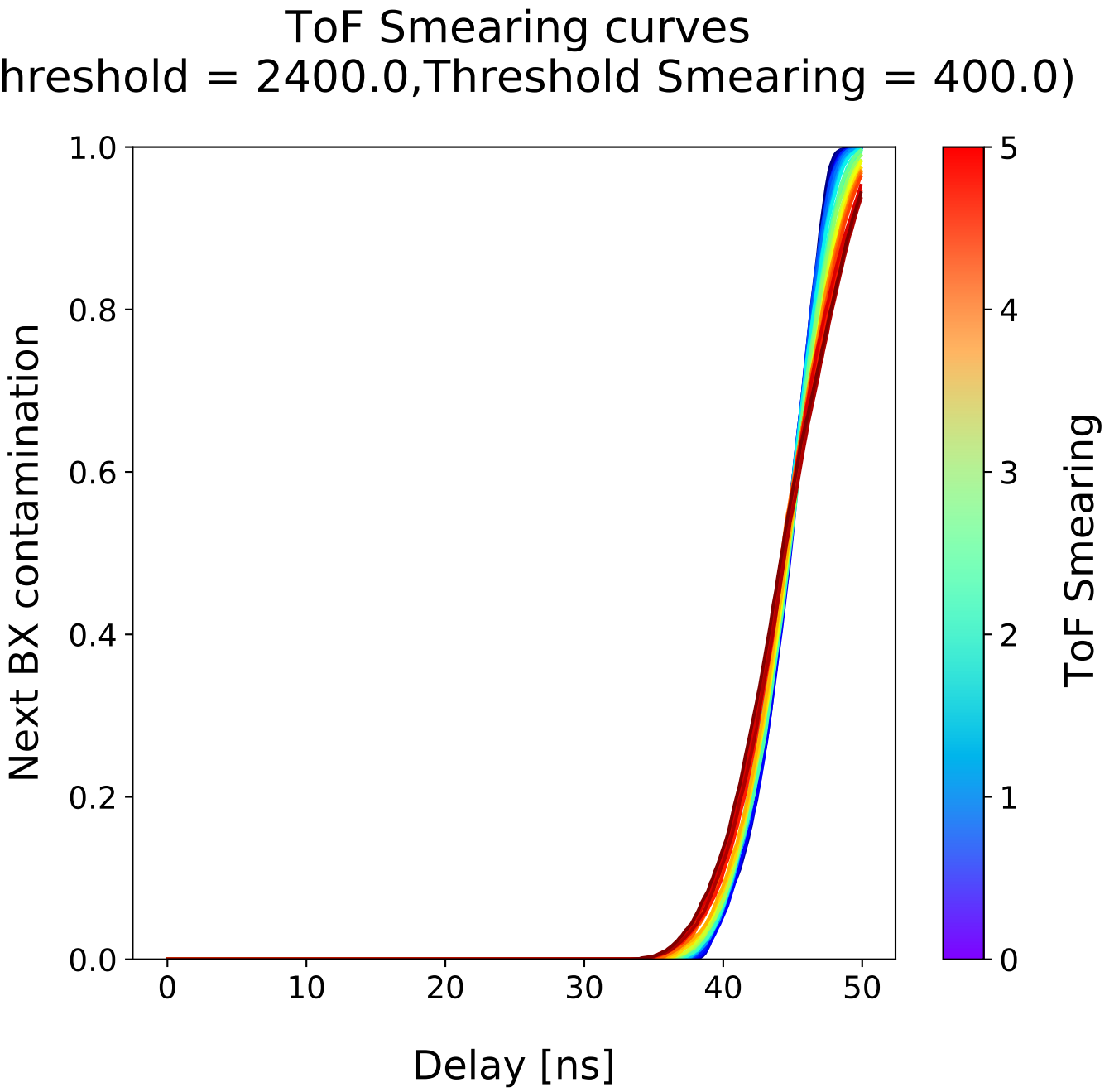

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

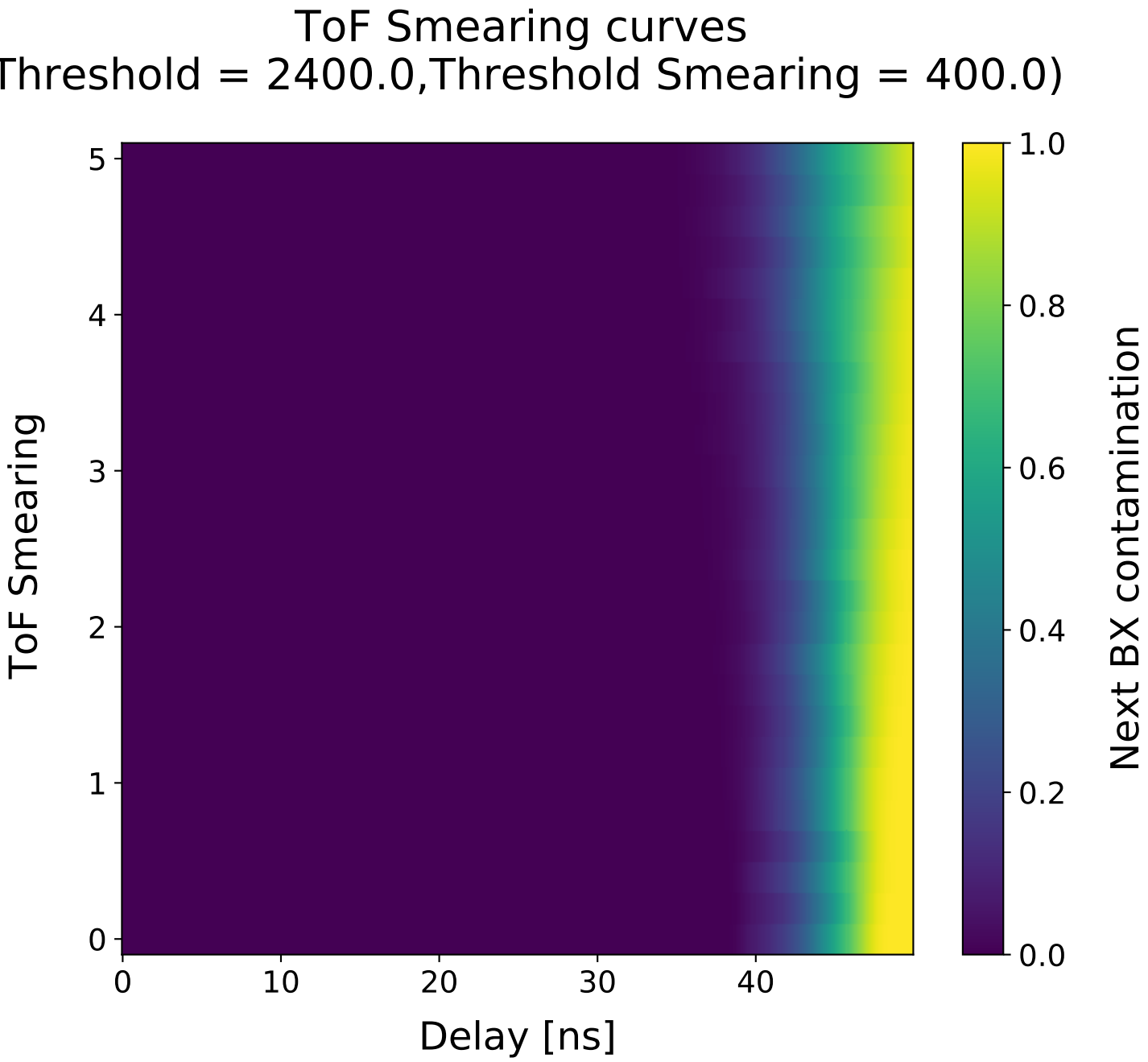

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

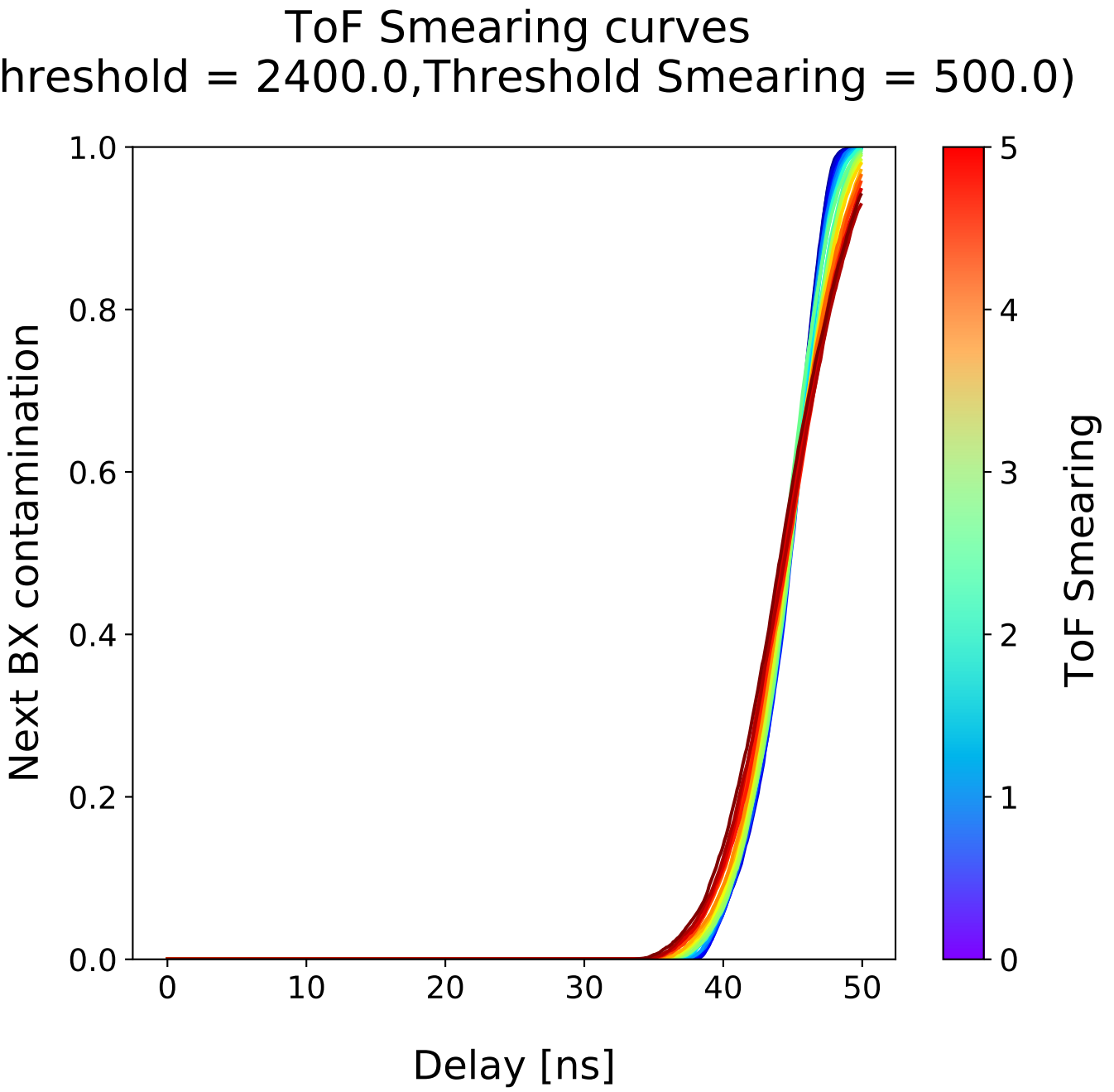

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

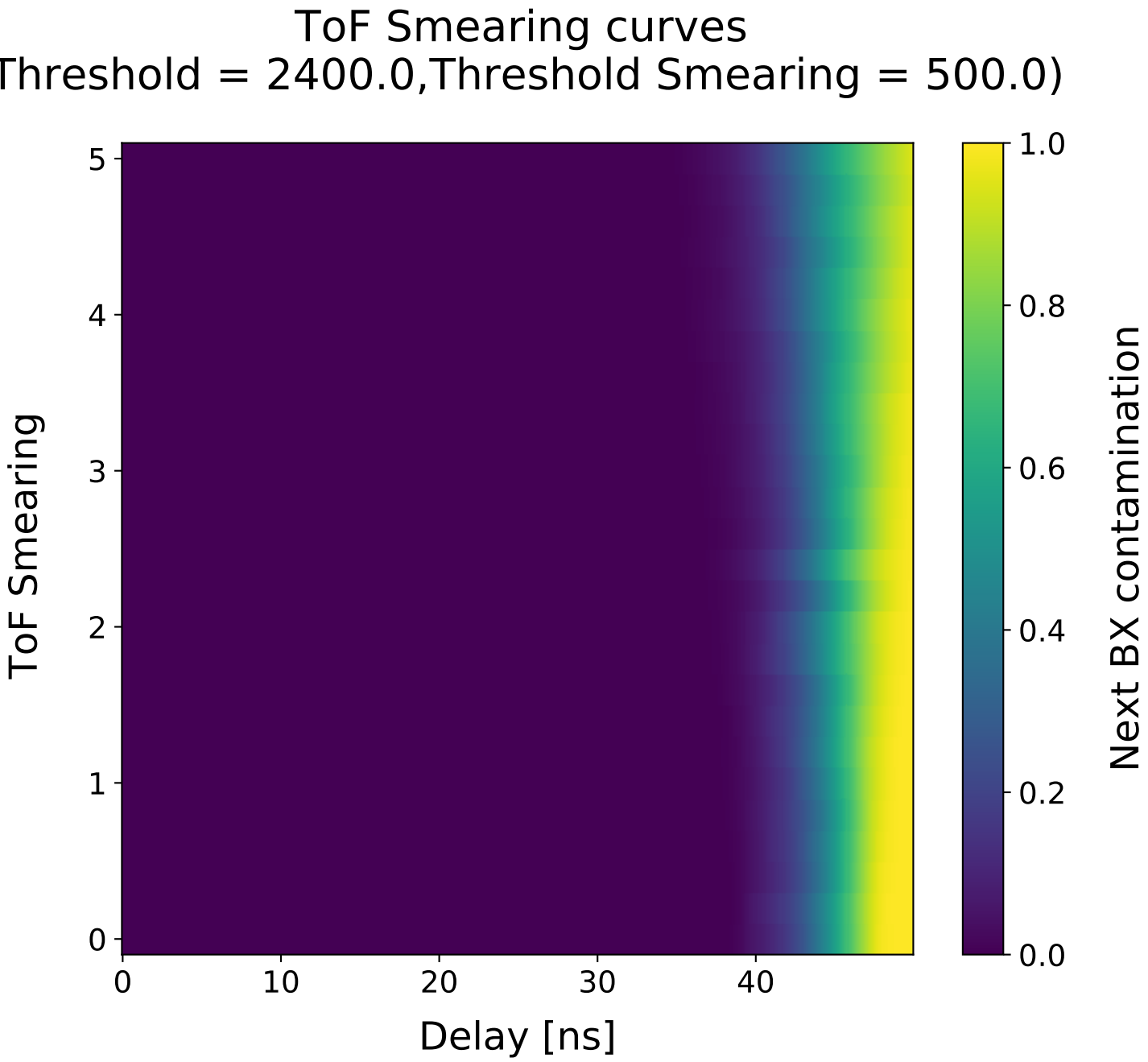

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

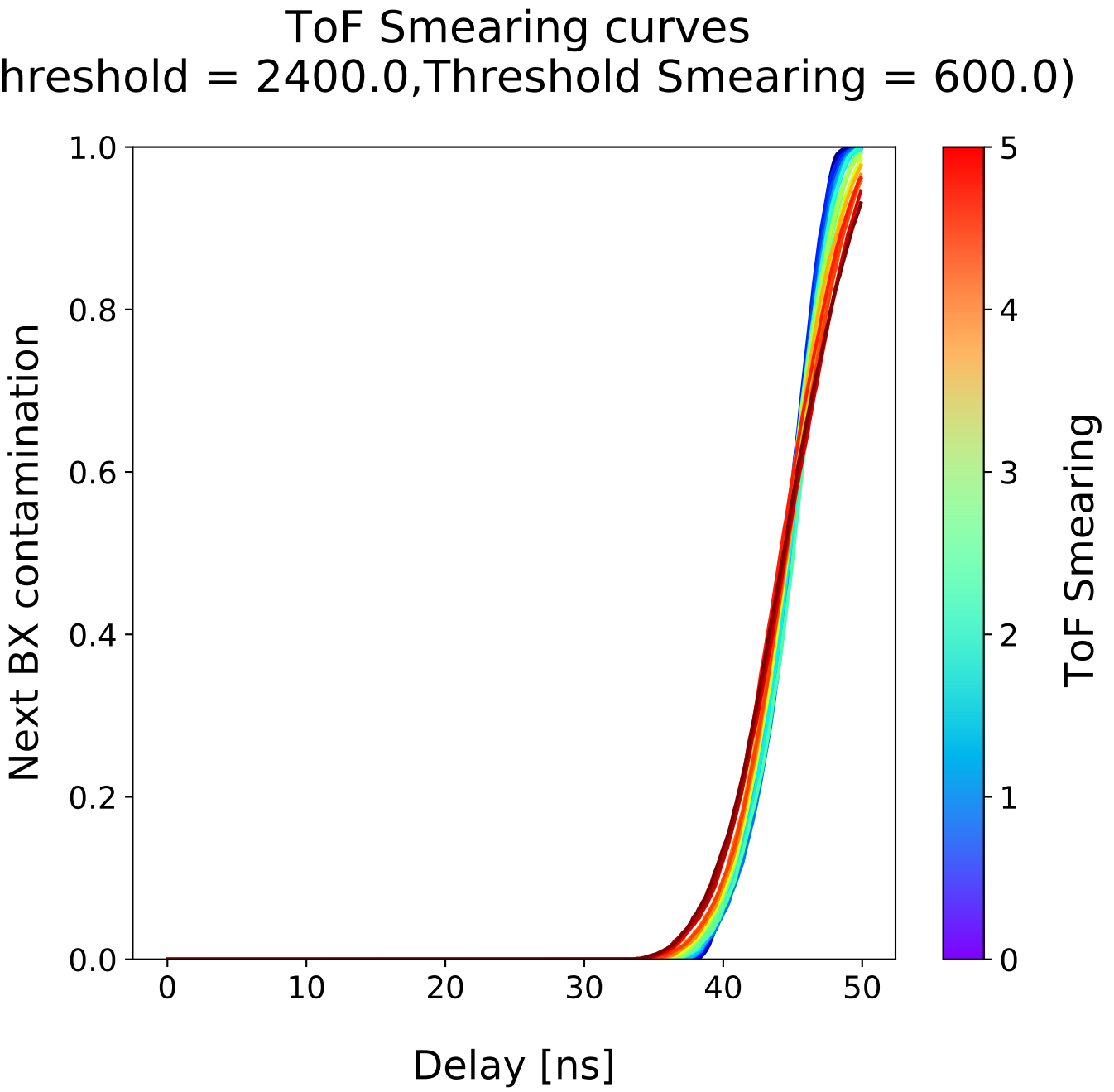

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

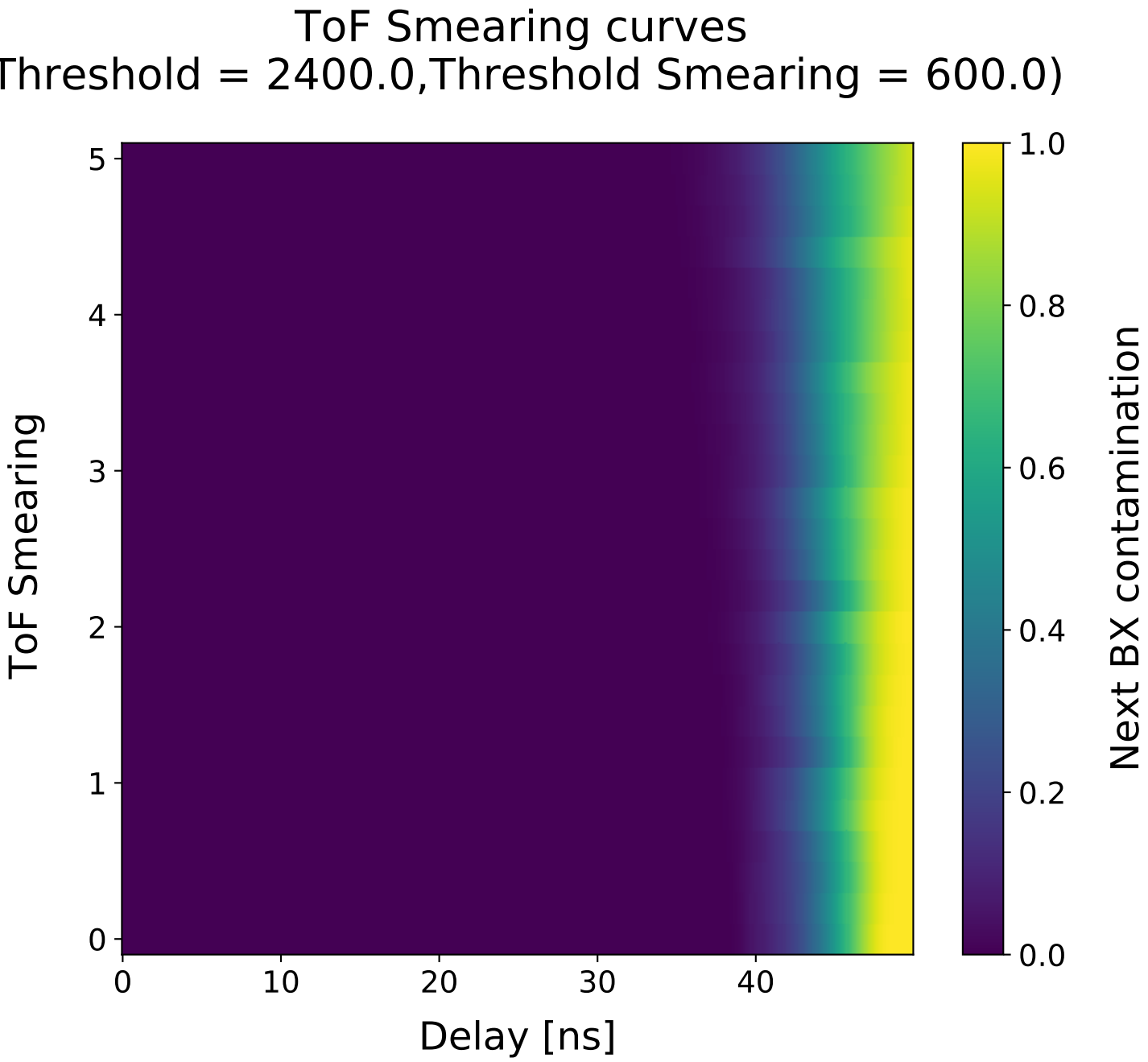

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

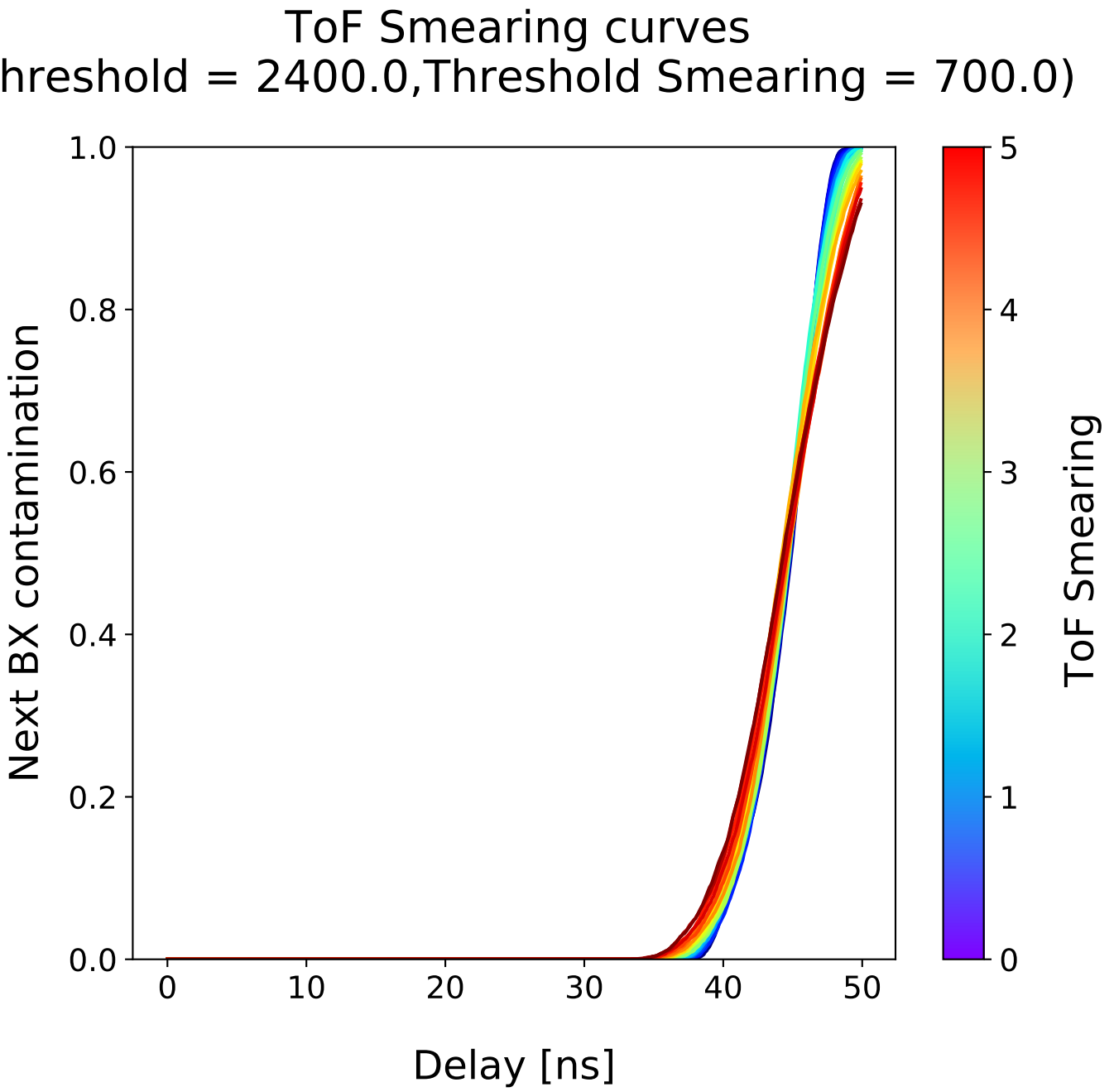

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

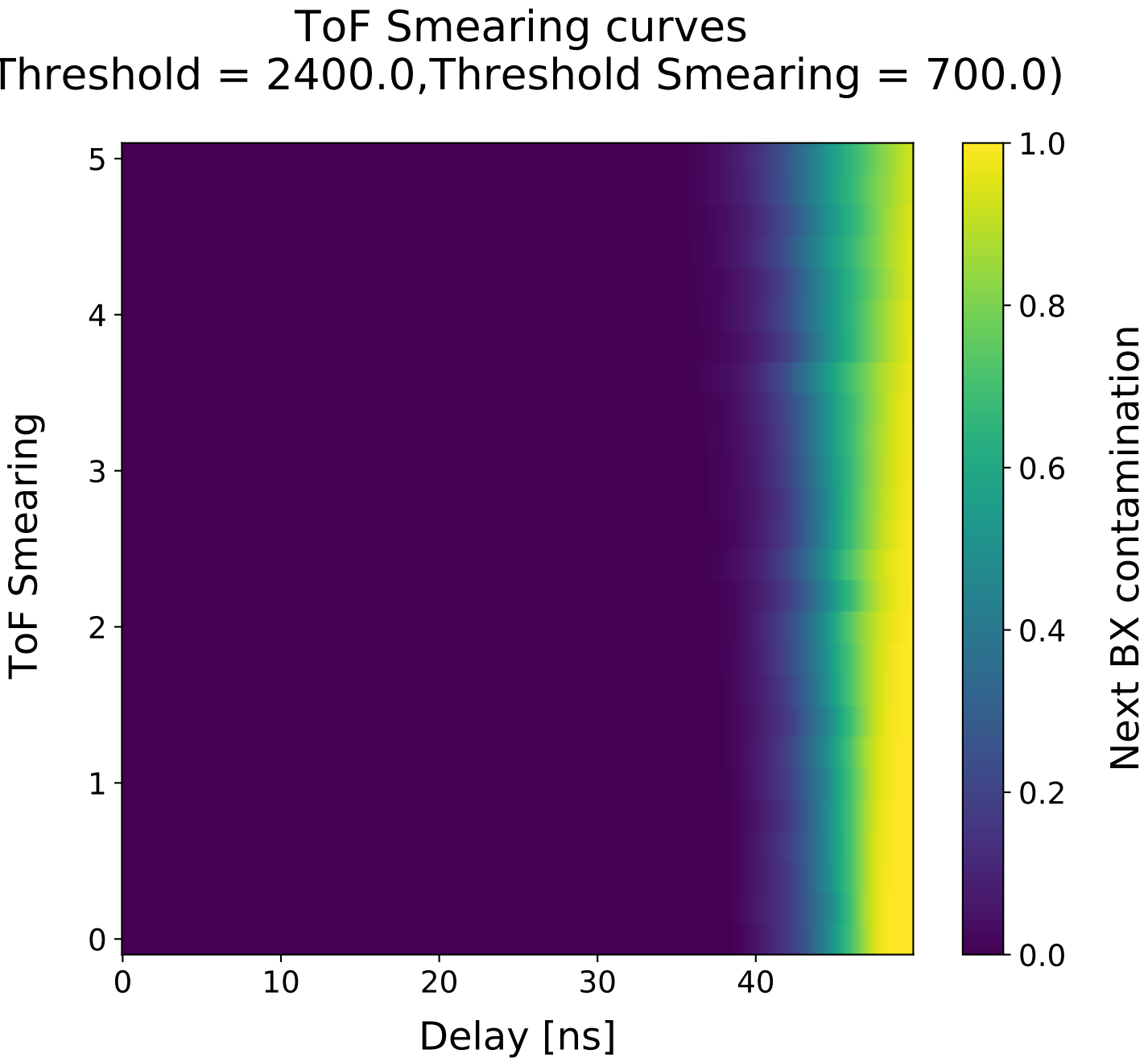

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

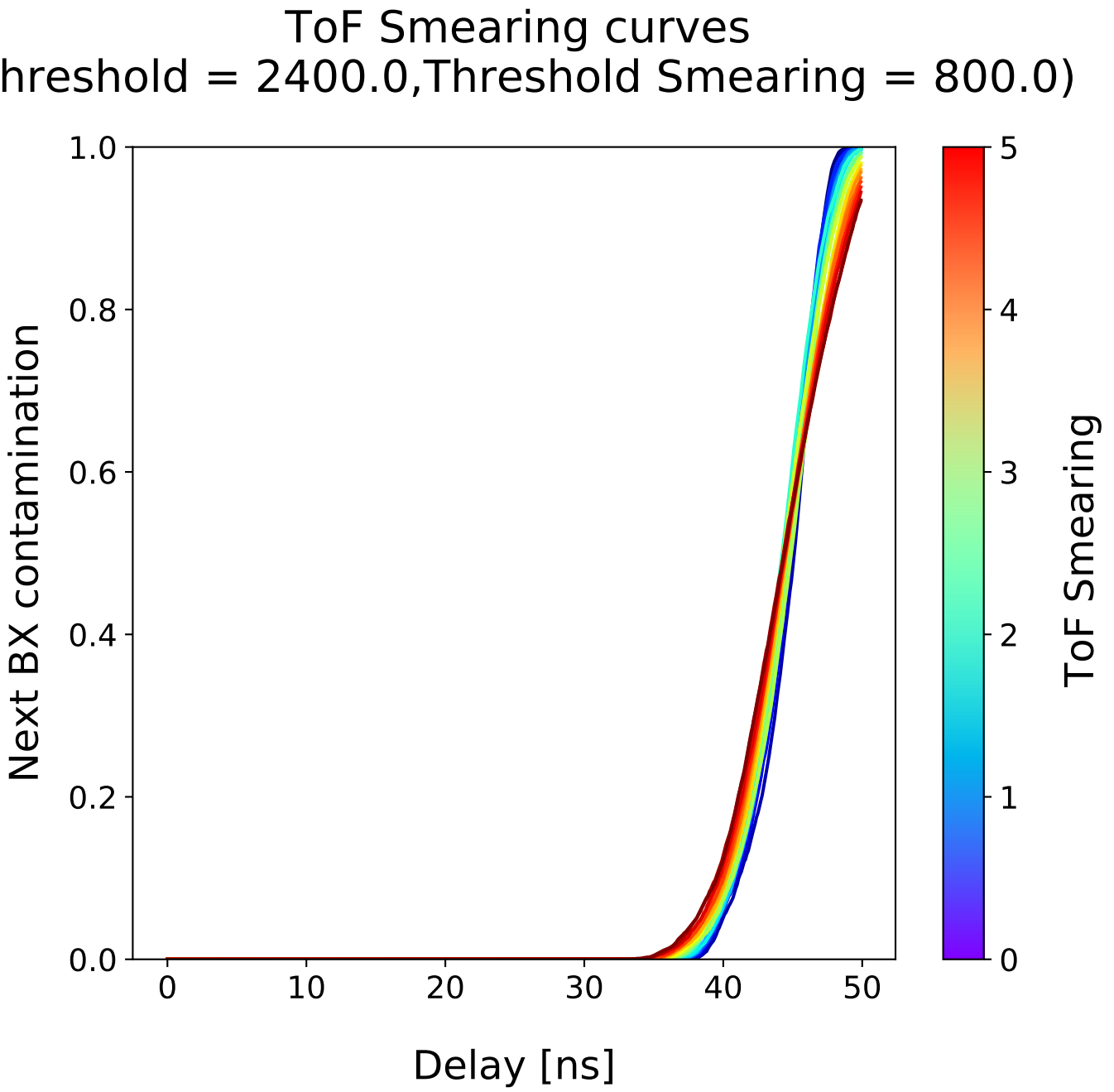

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

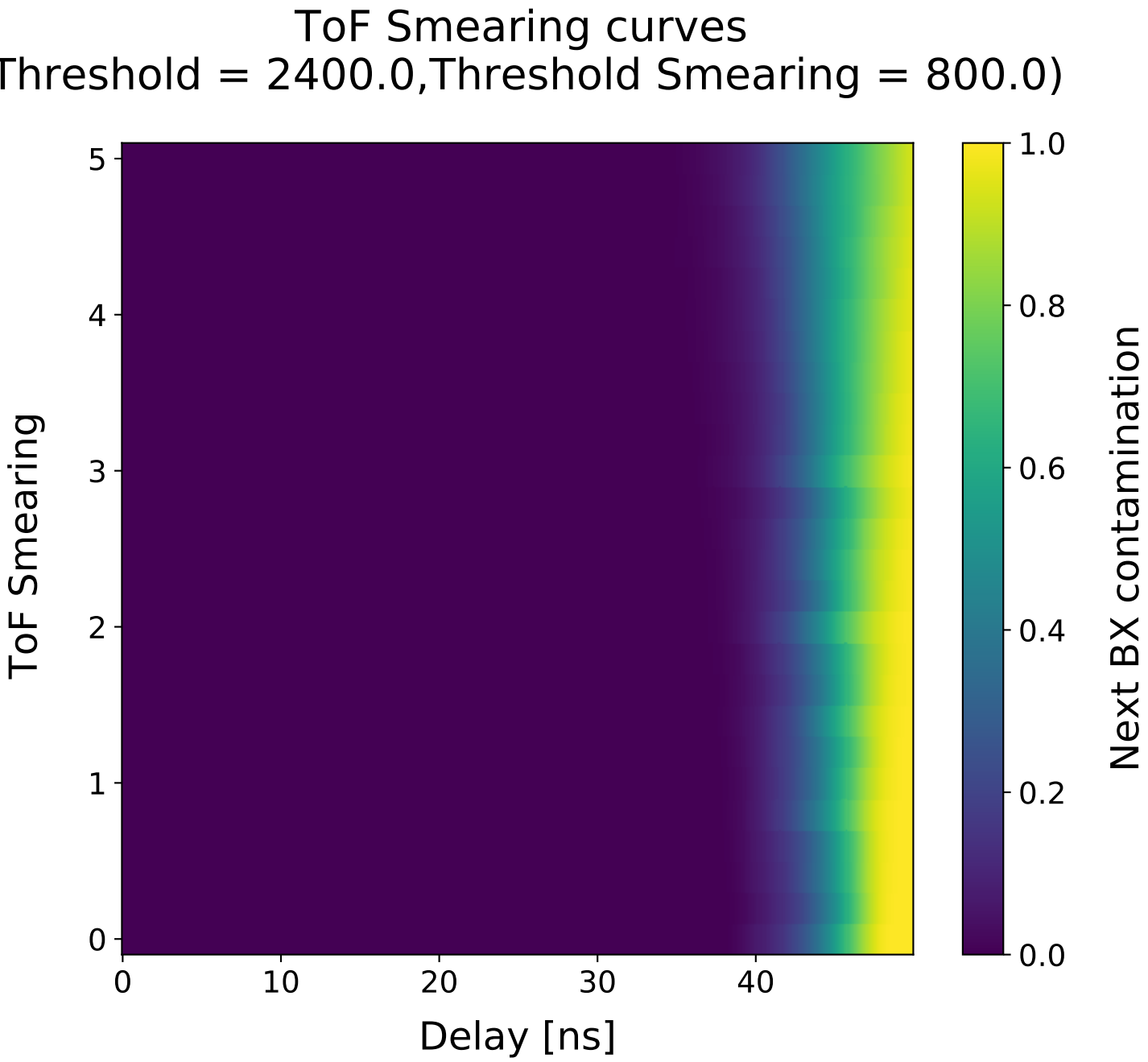

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

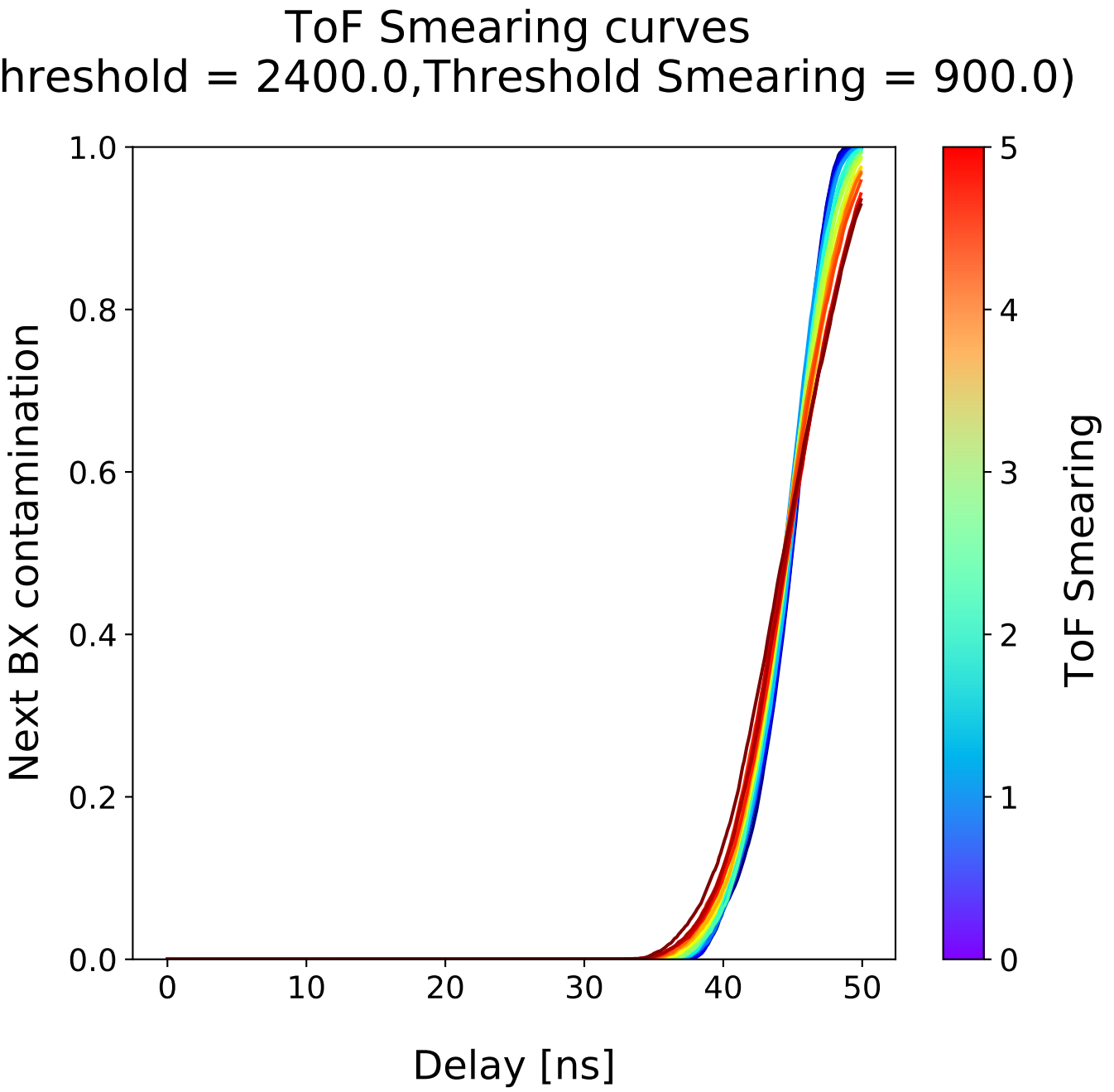

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

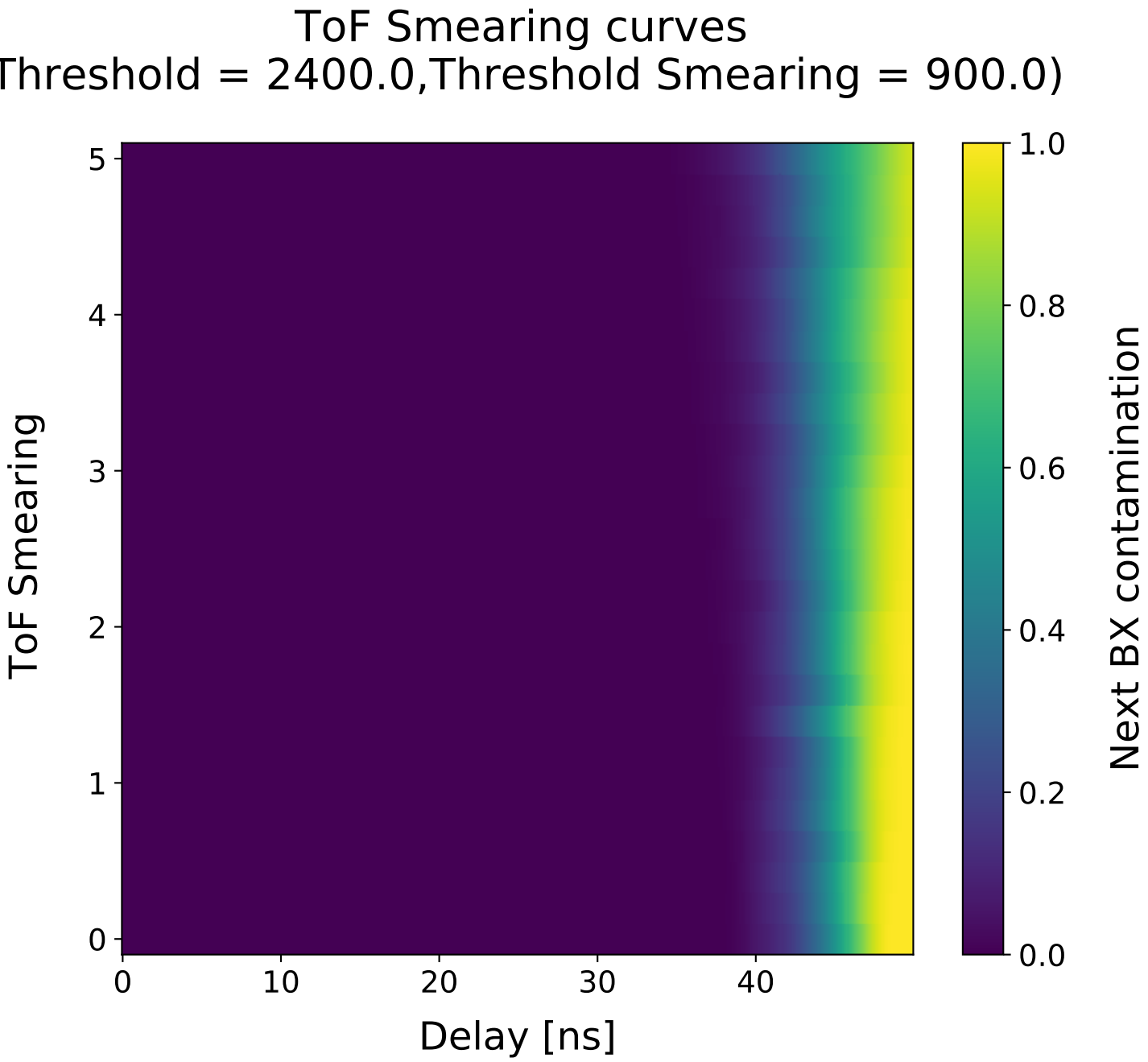

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

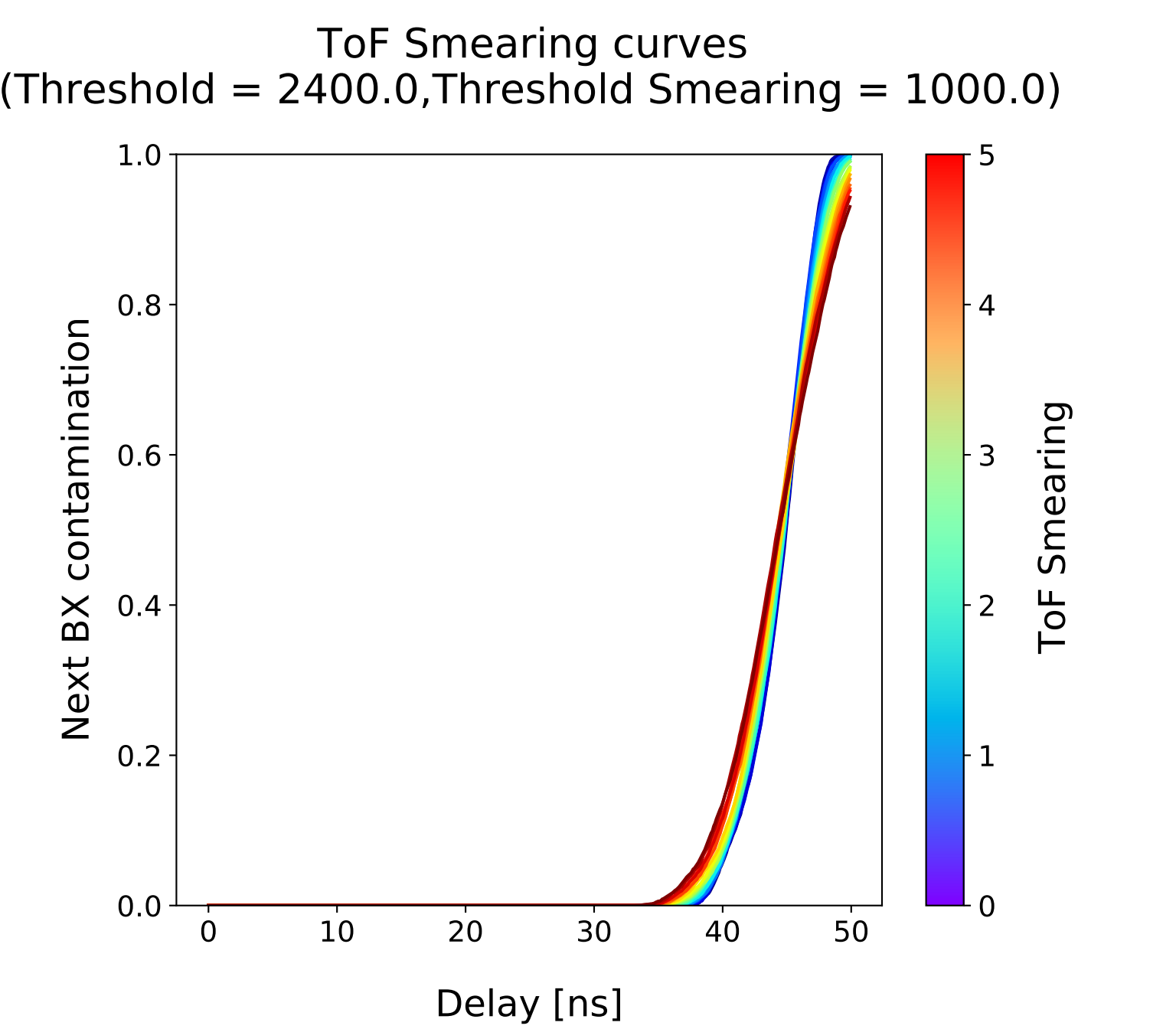

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

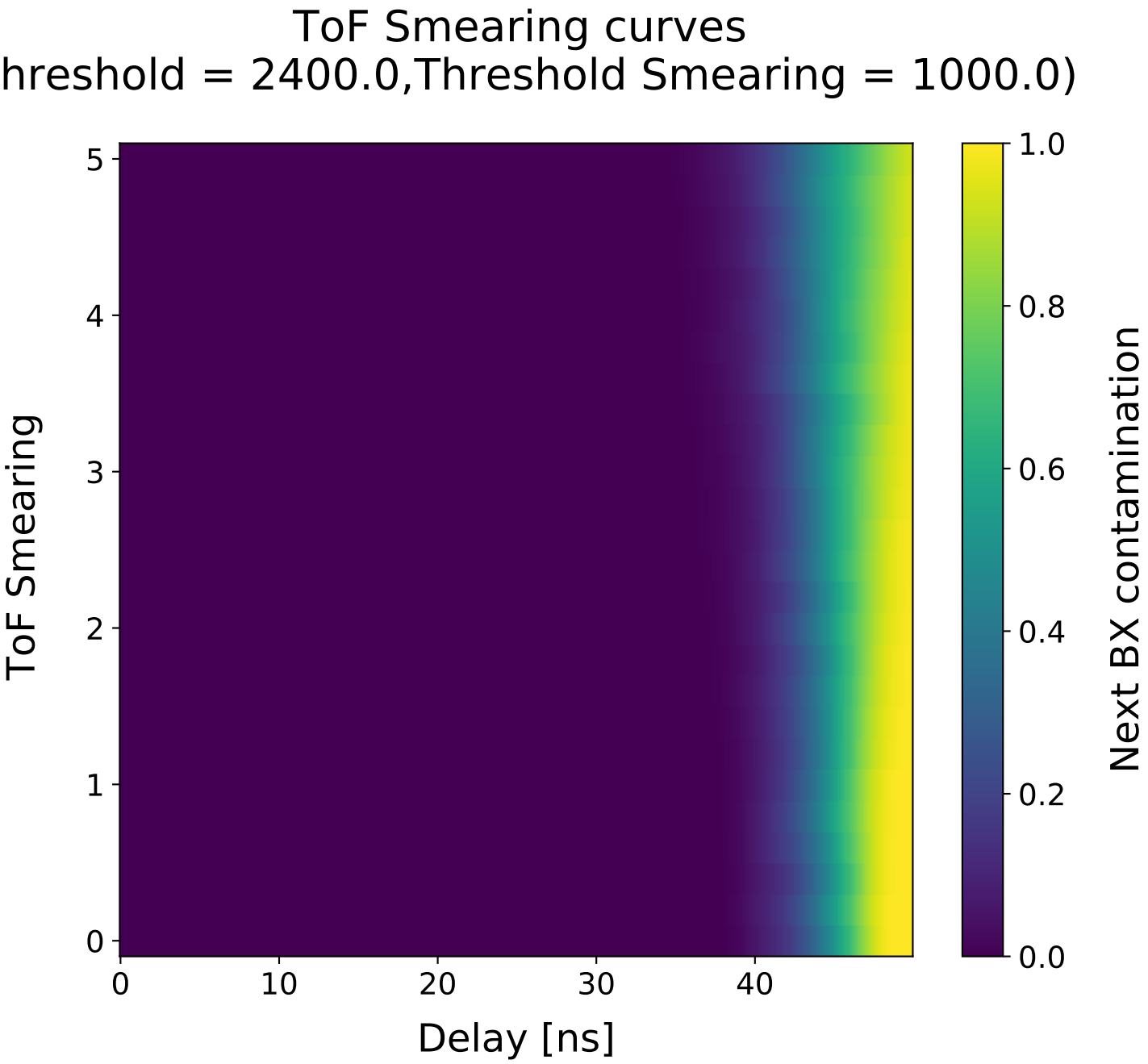

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

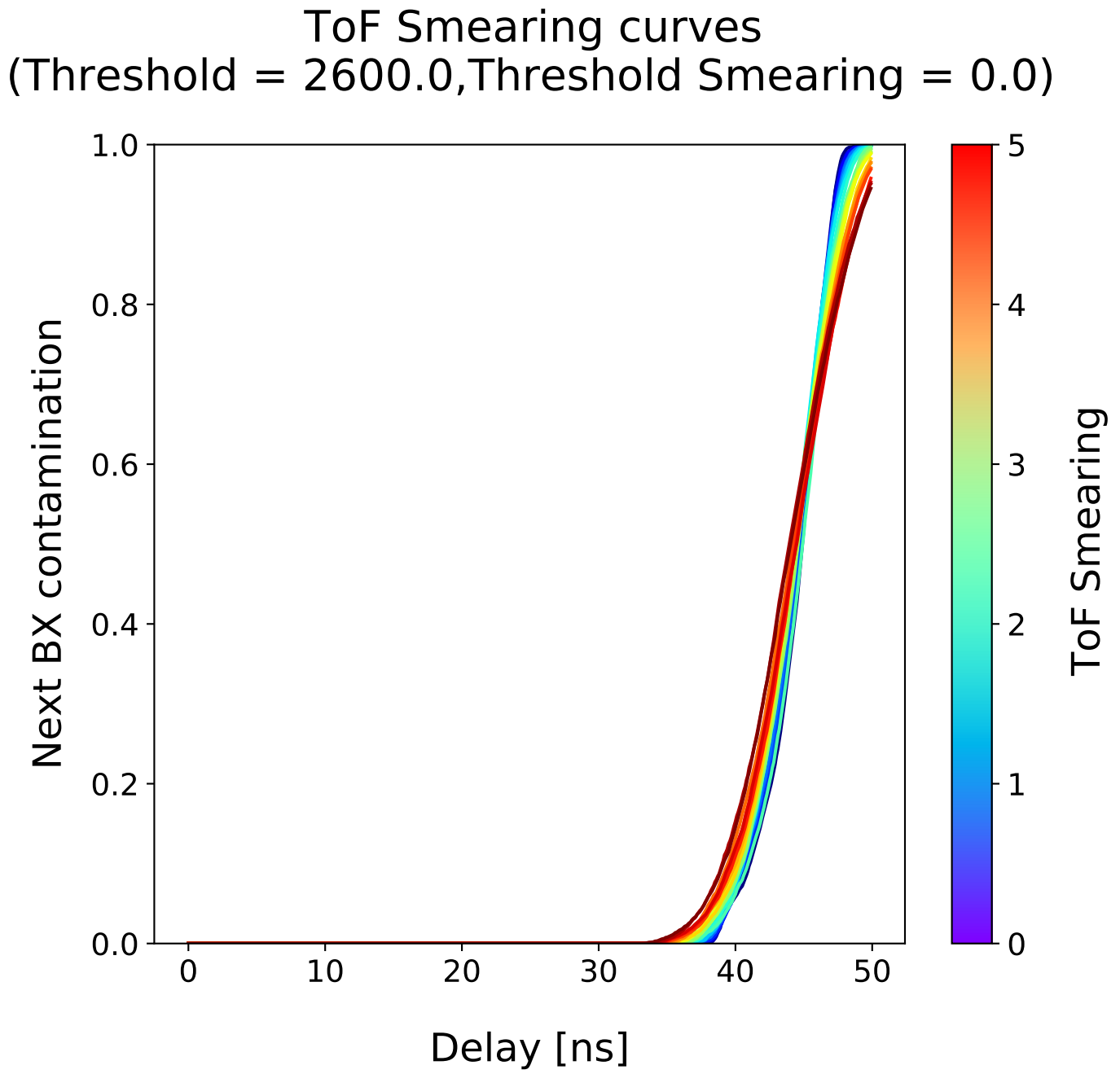

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

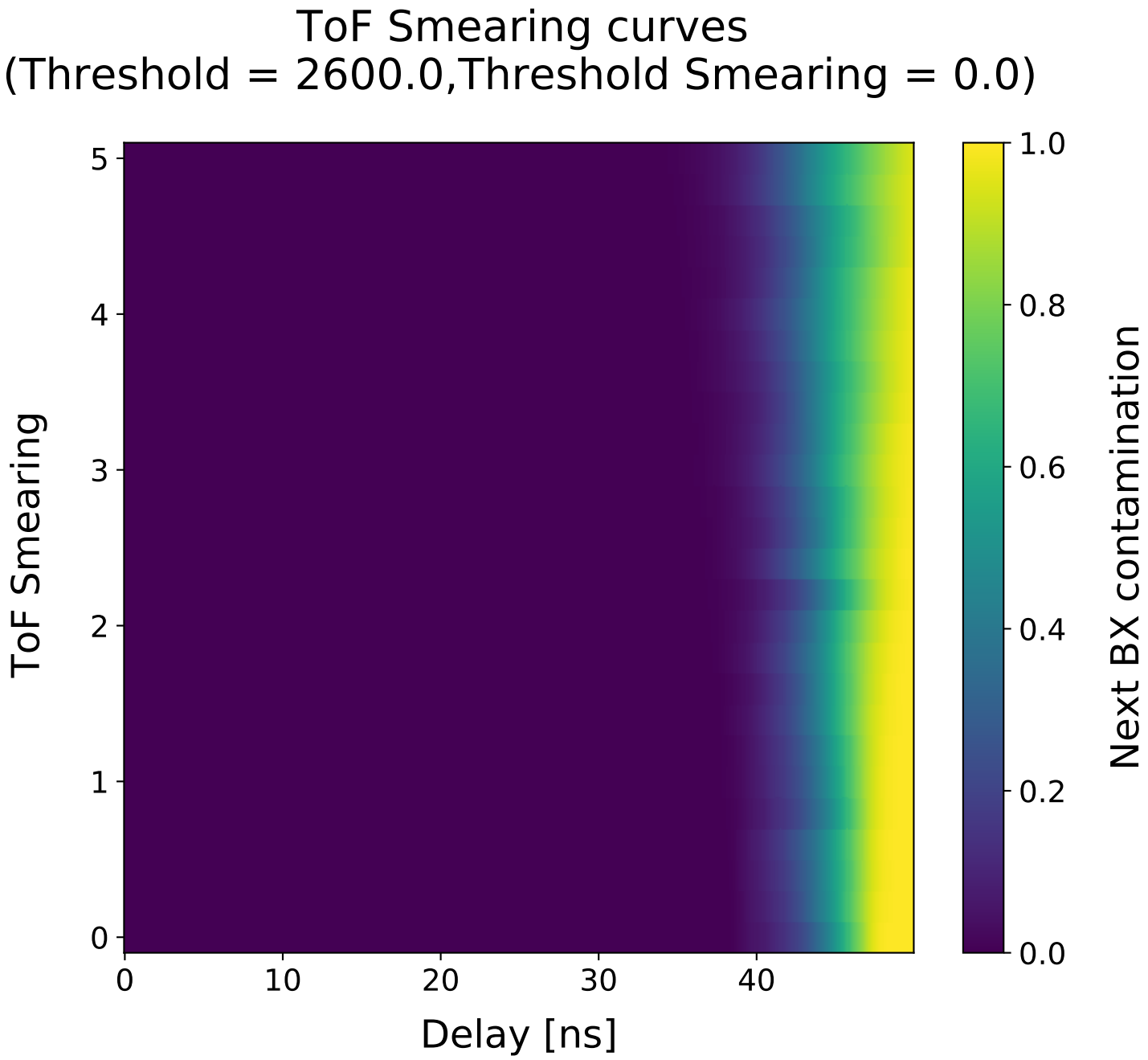

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

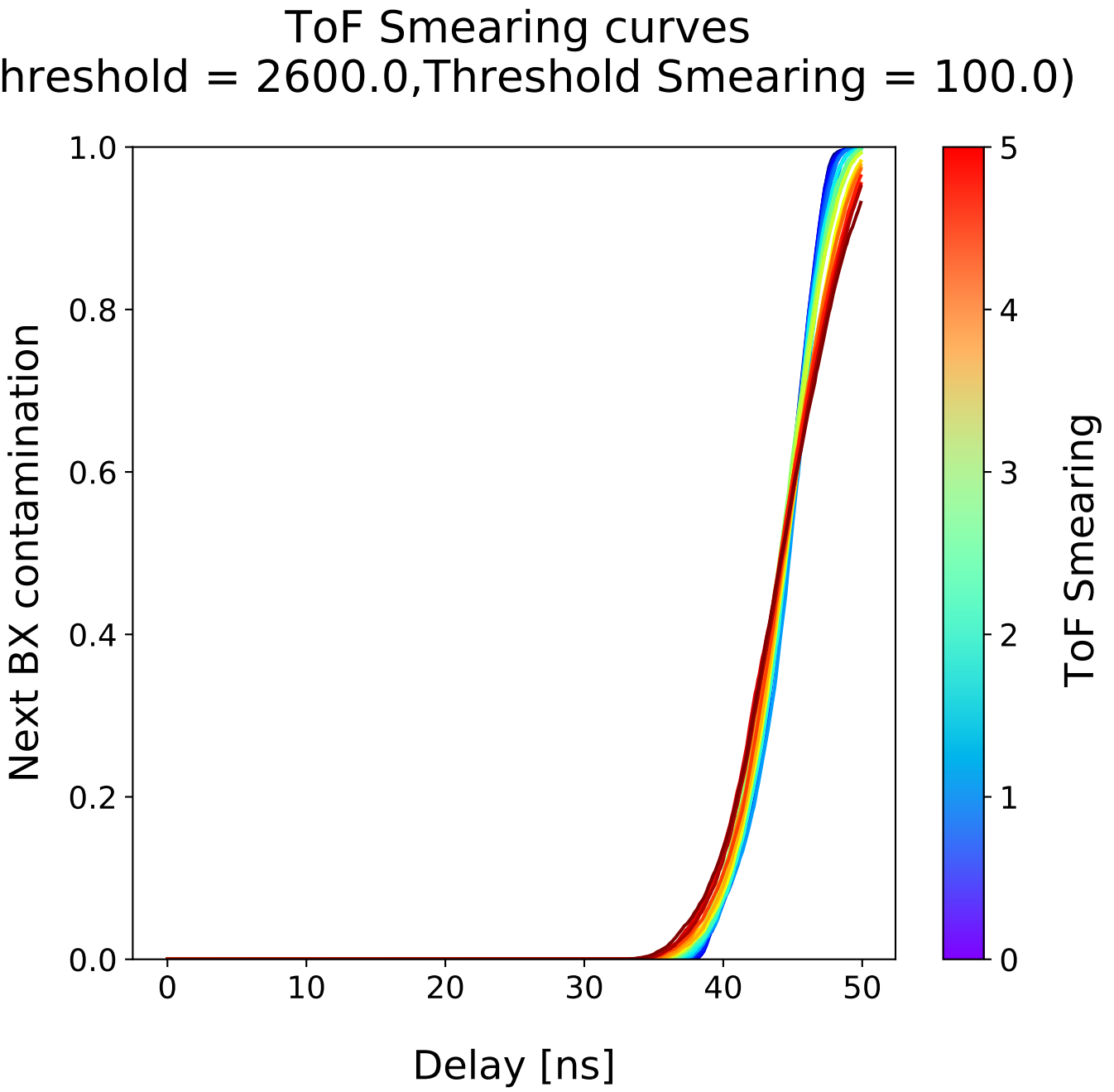

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

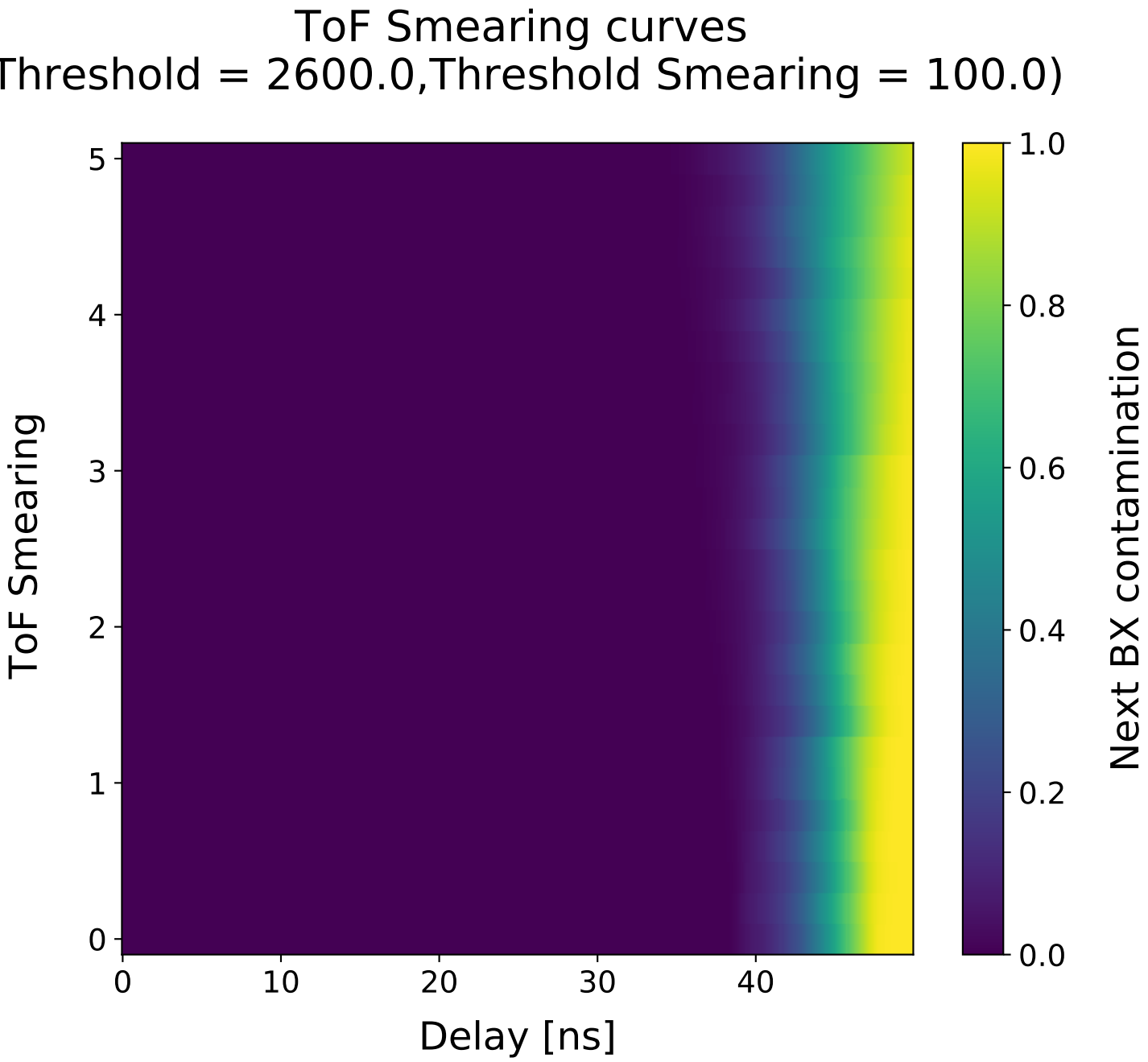

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

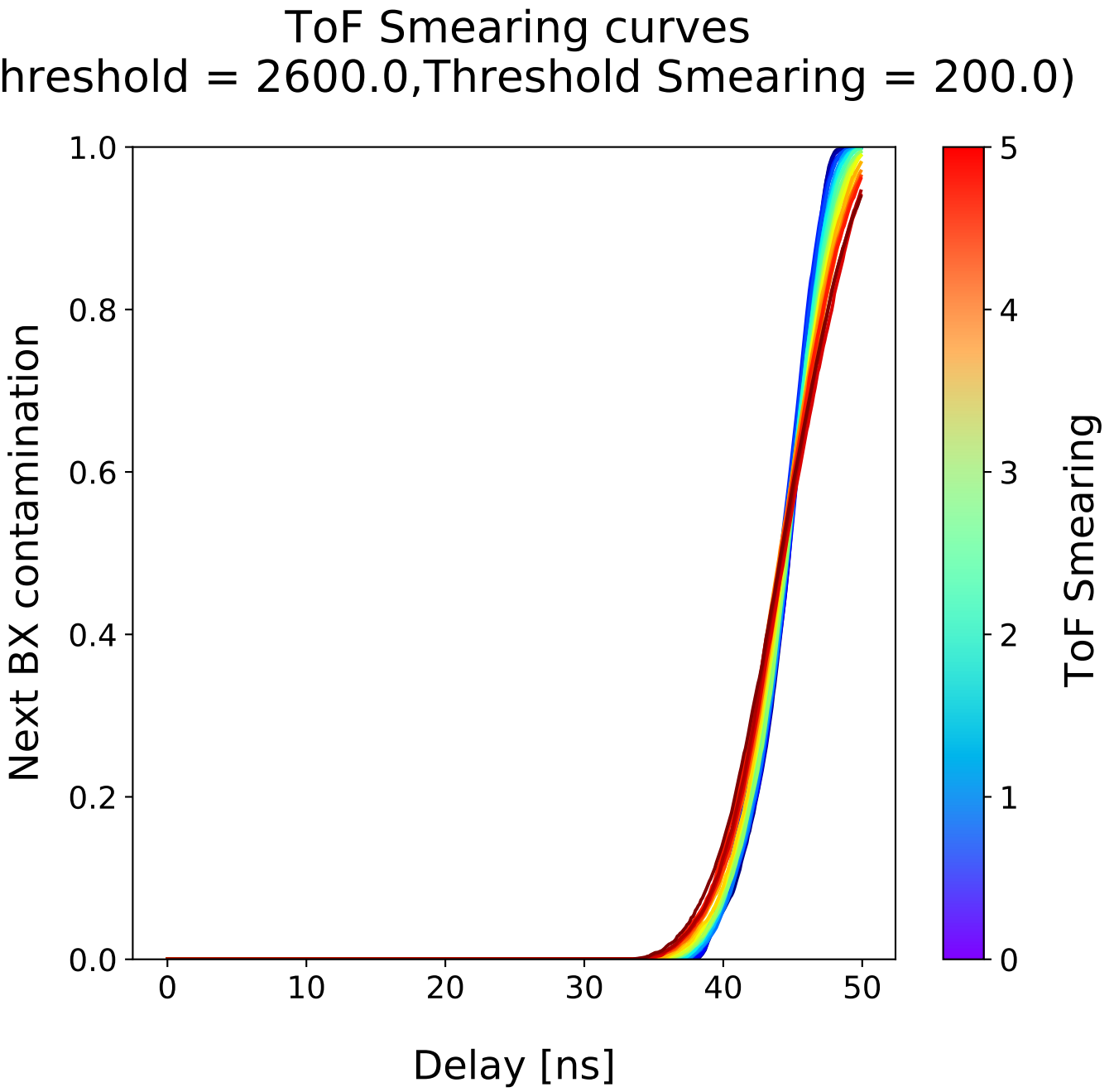

ToF Smearing curves
(Threshold = 2400.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

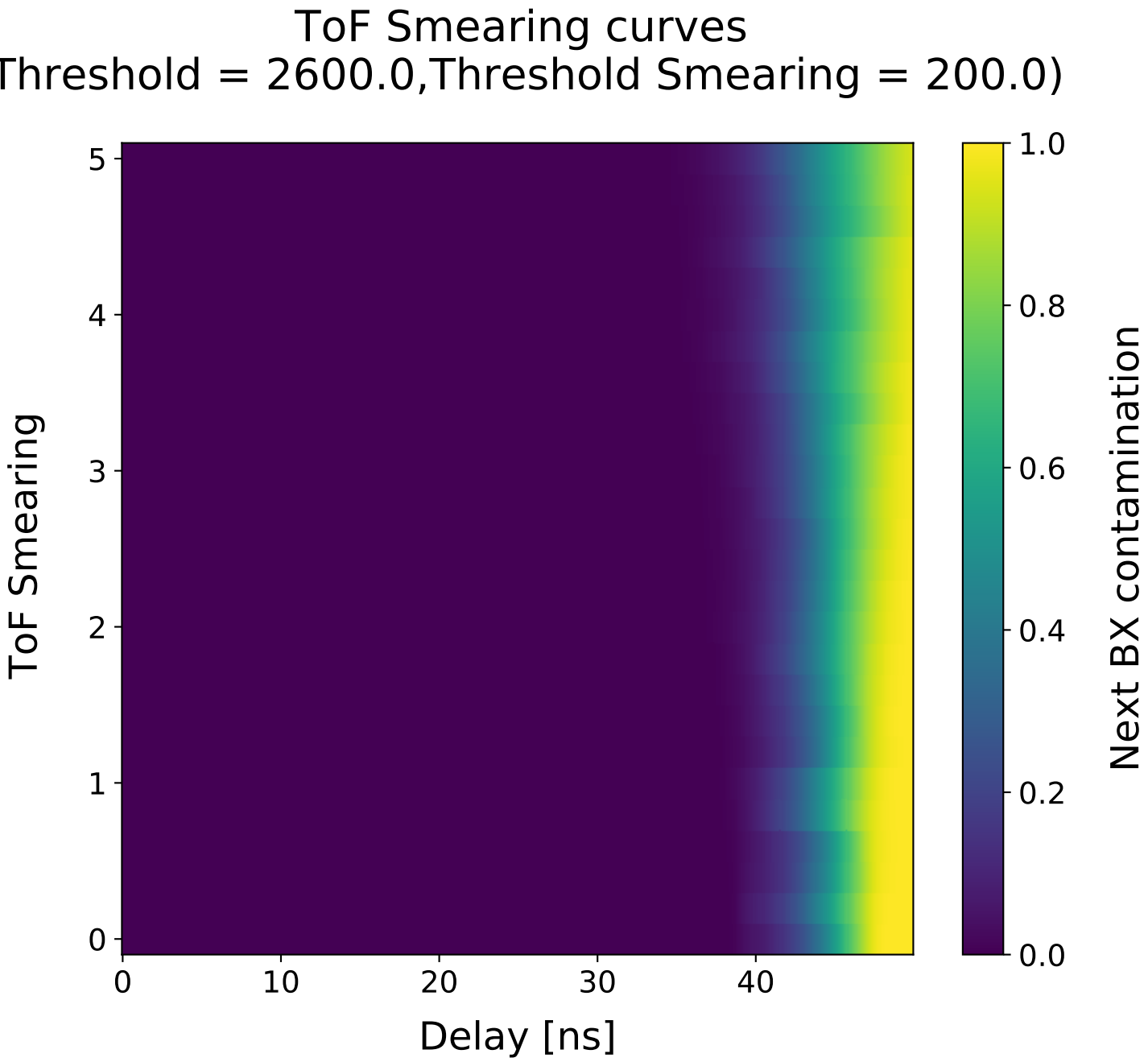

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

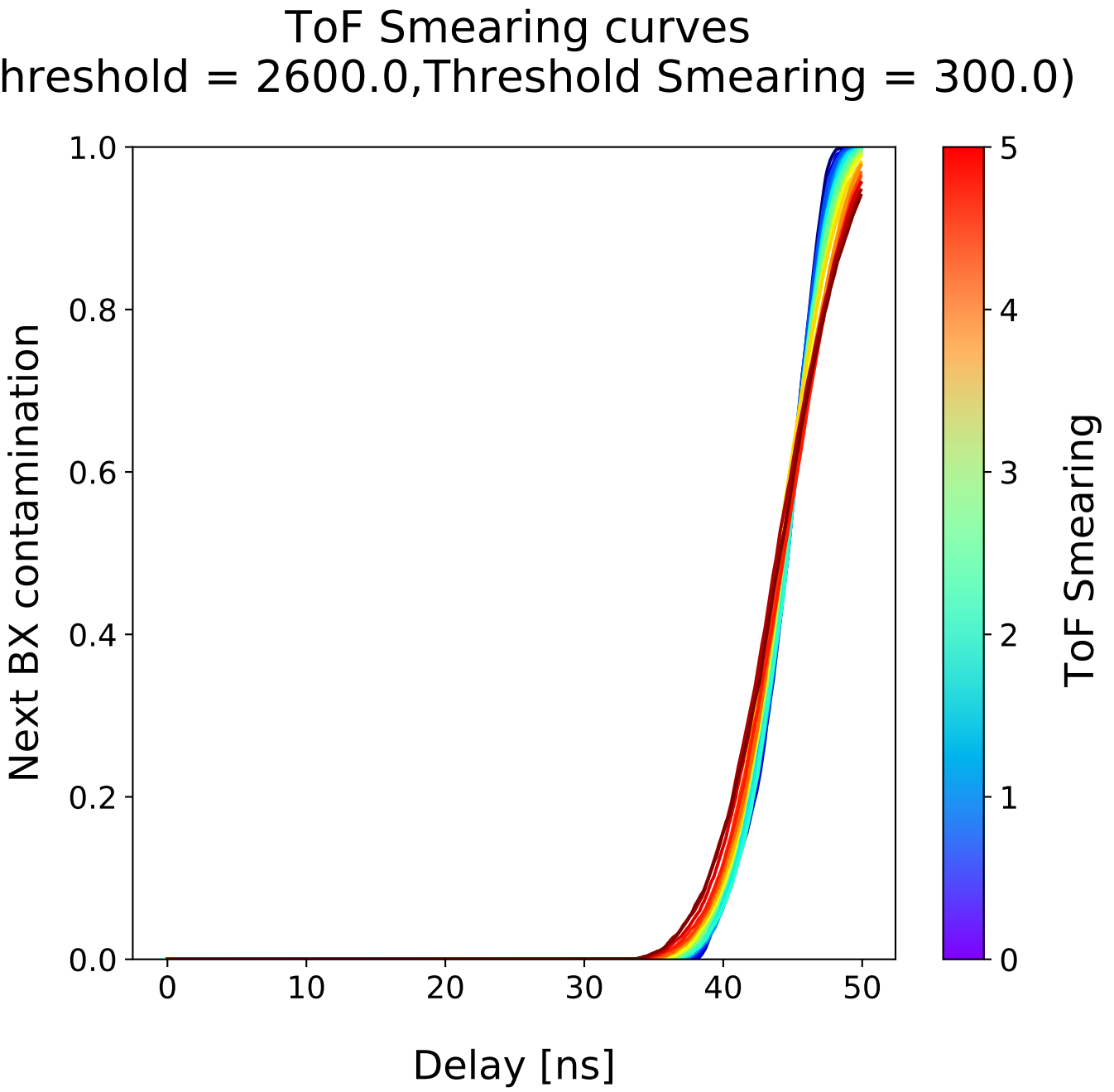

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

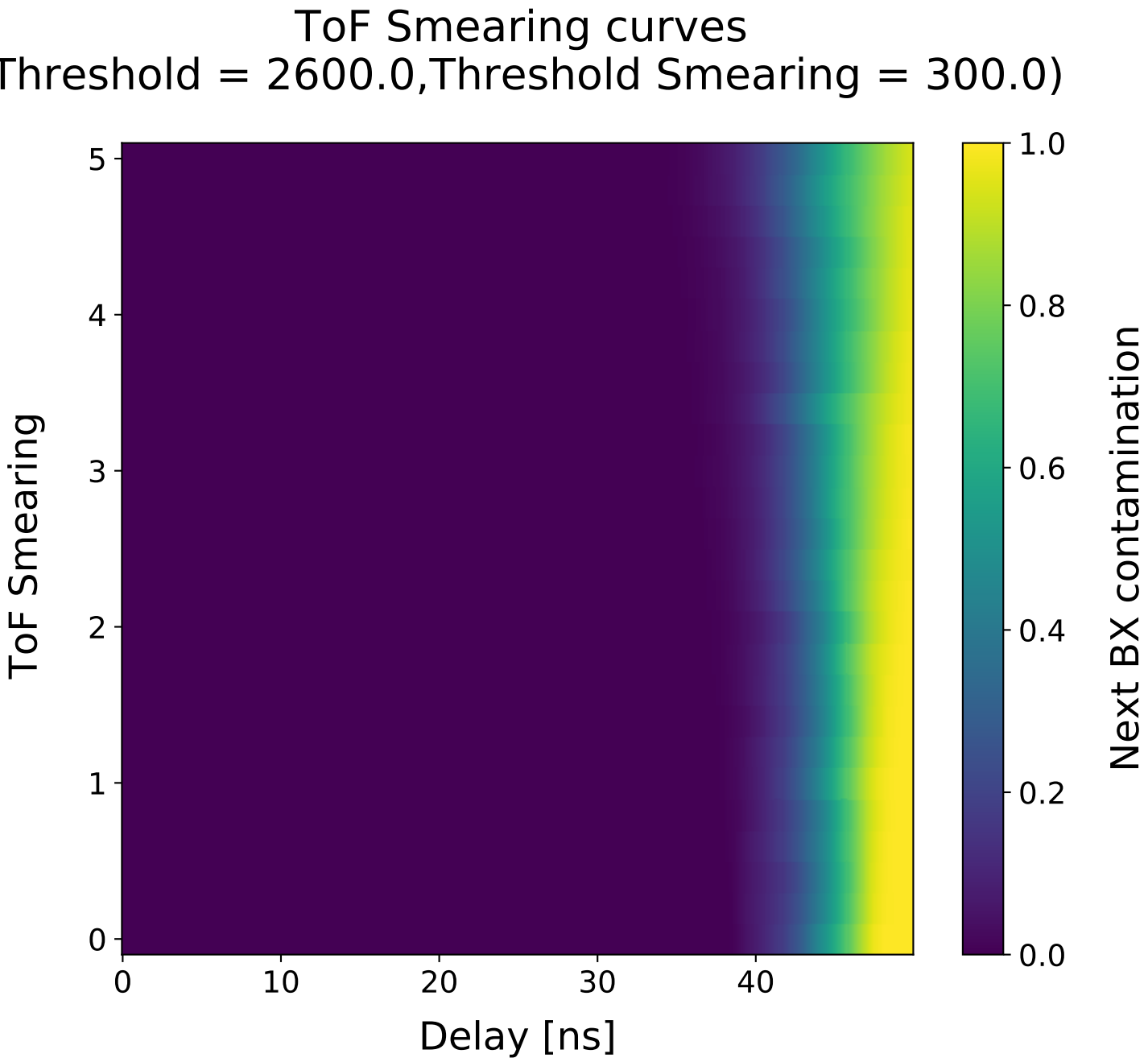

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

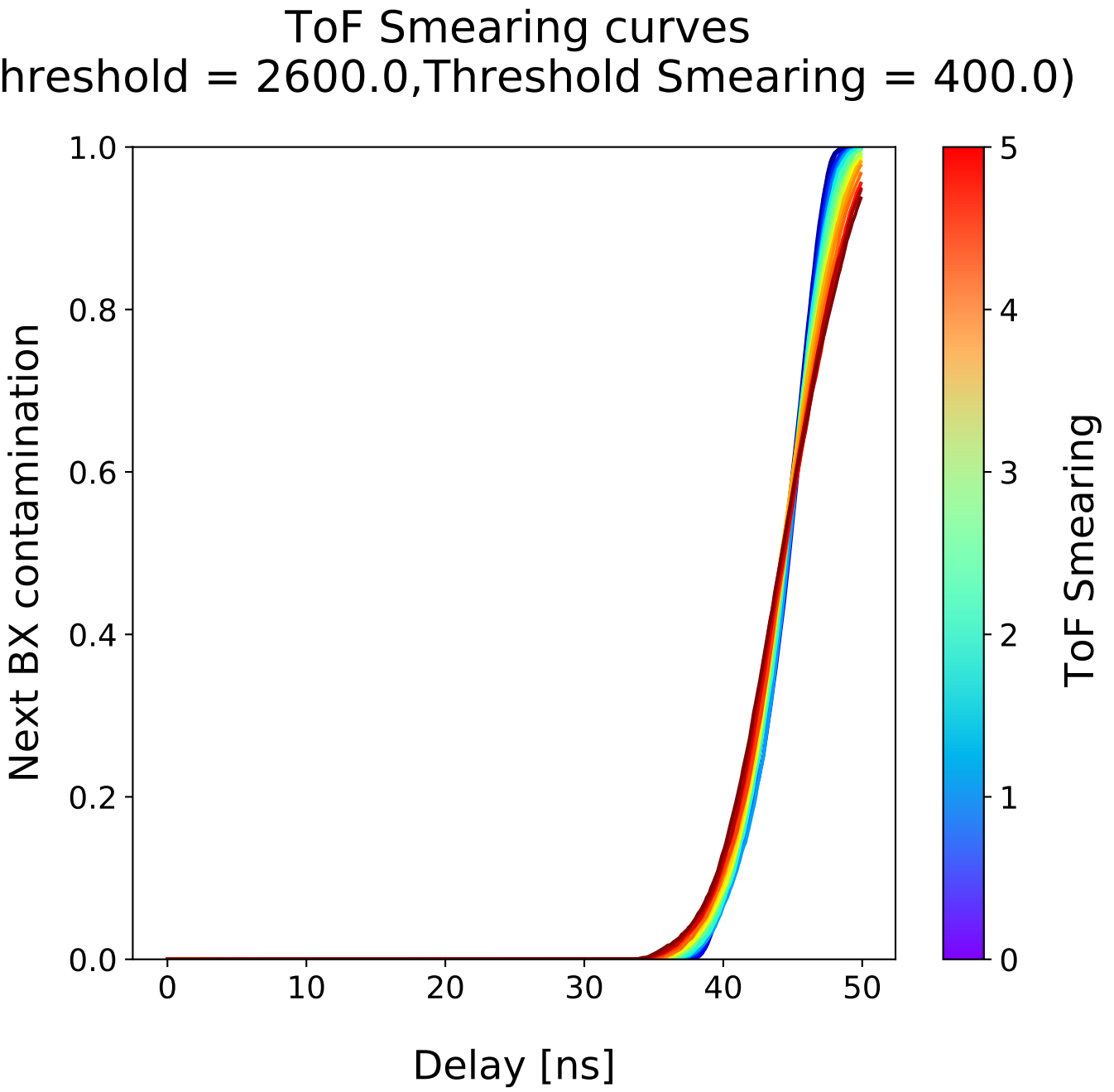

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

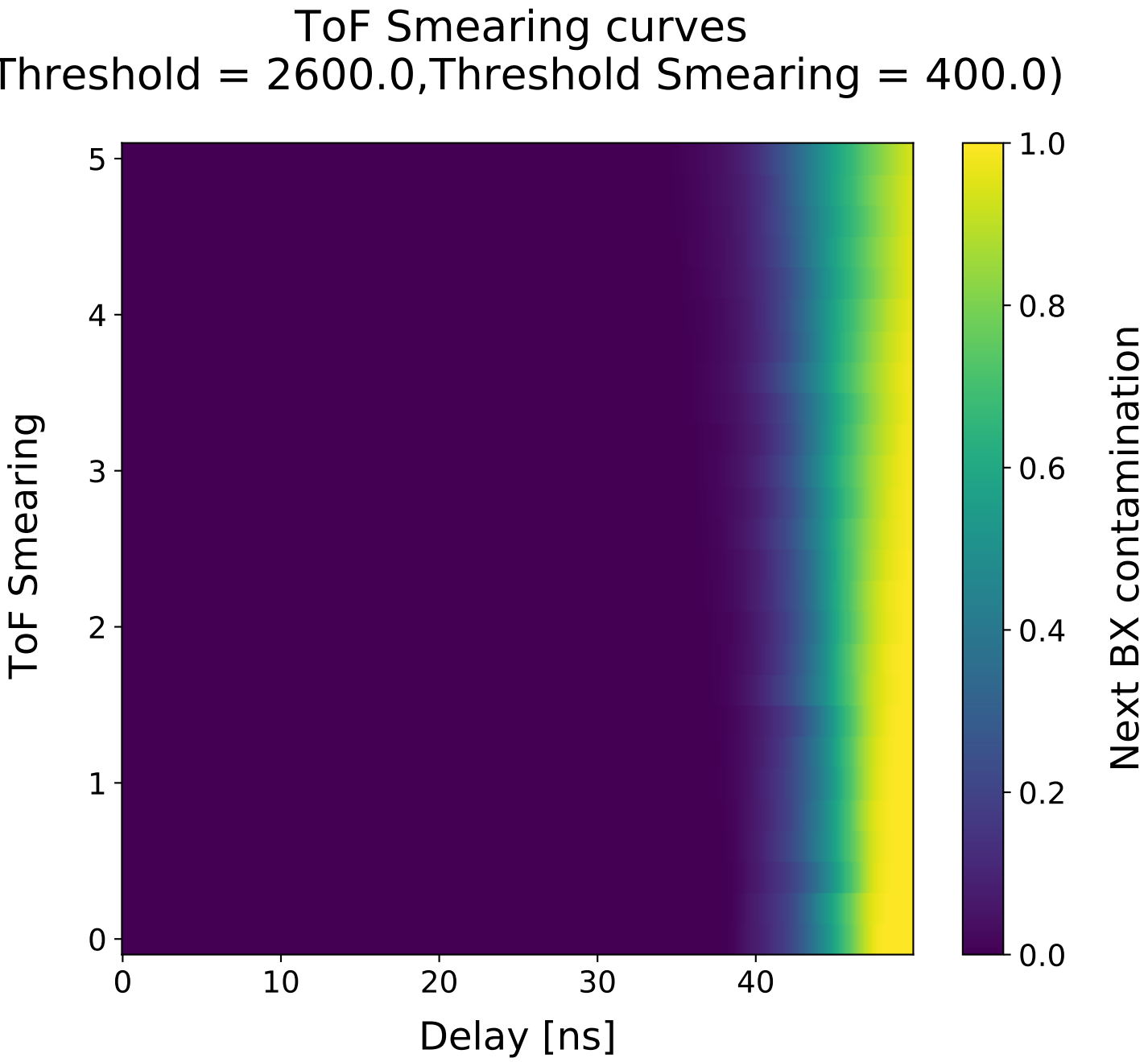

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

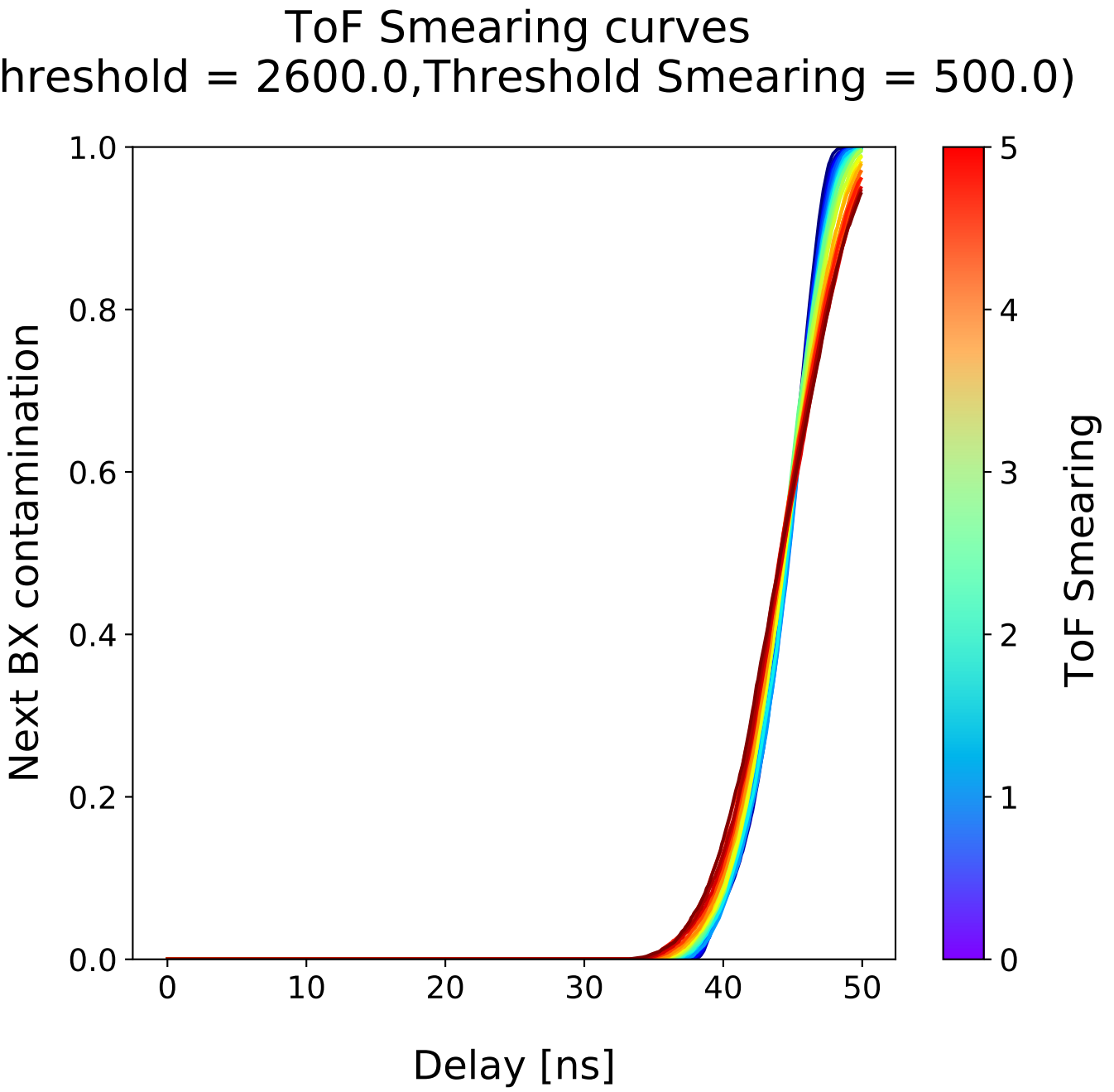

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

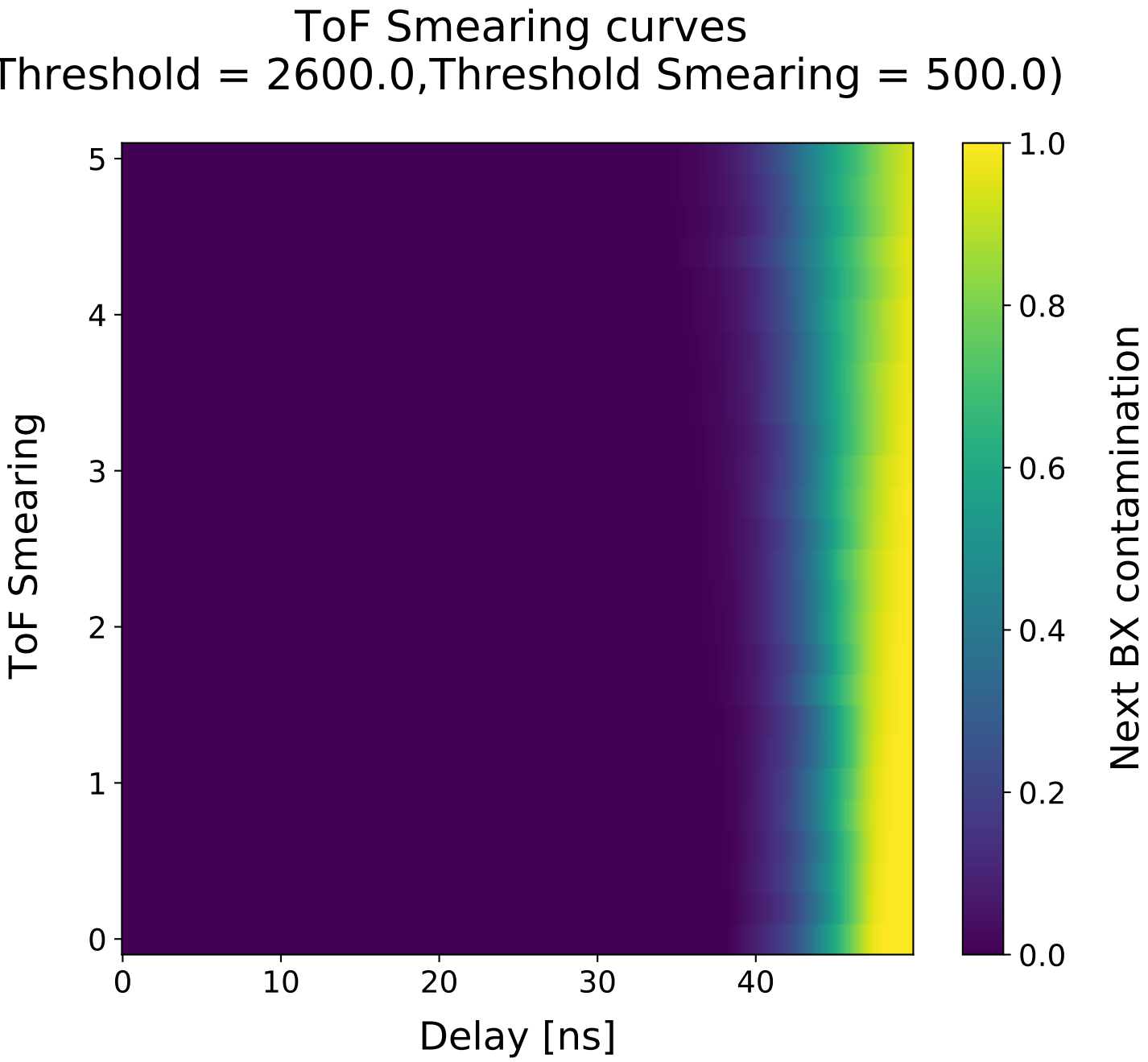

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

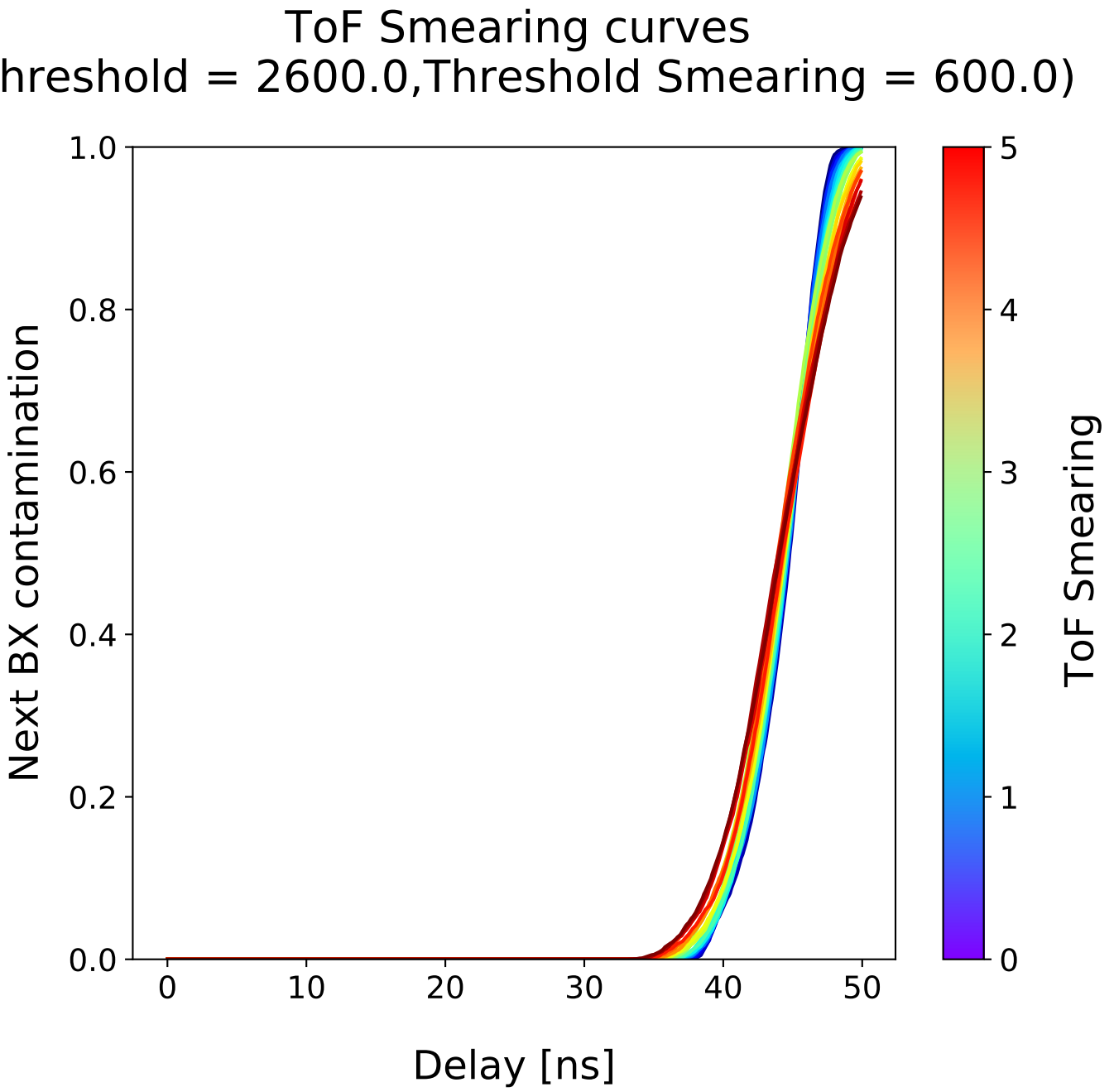

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

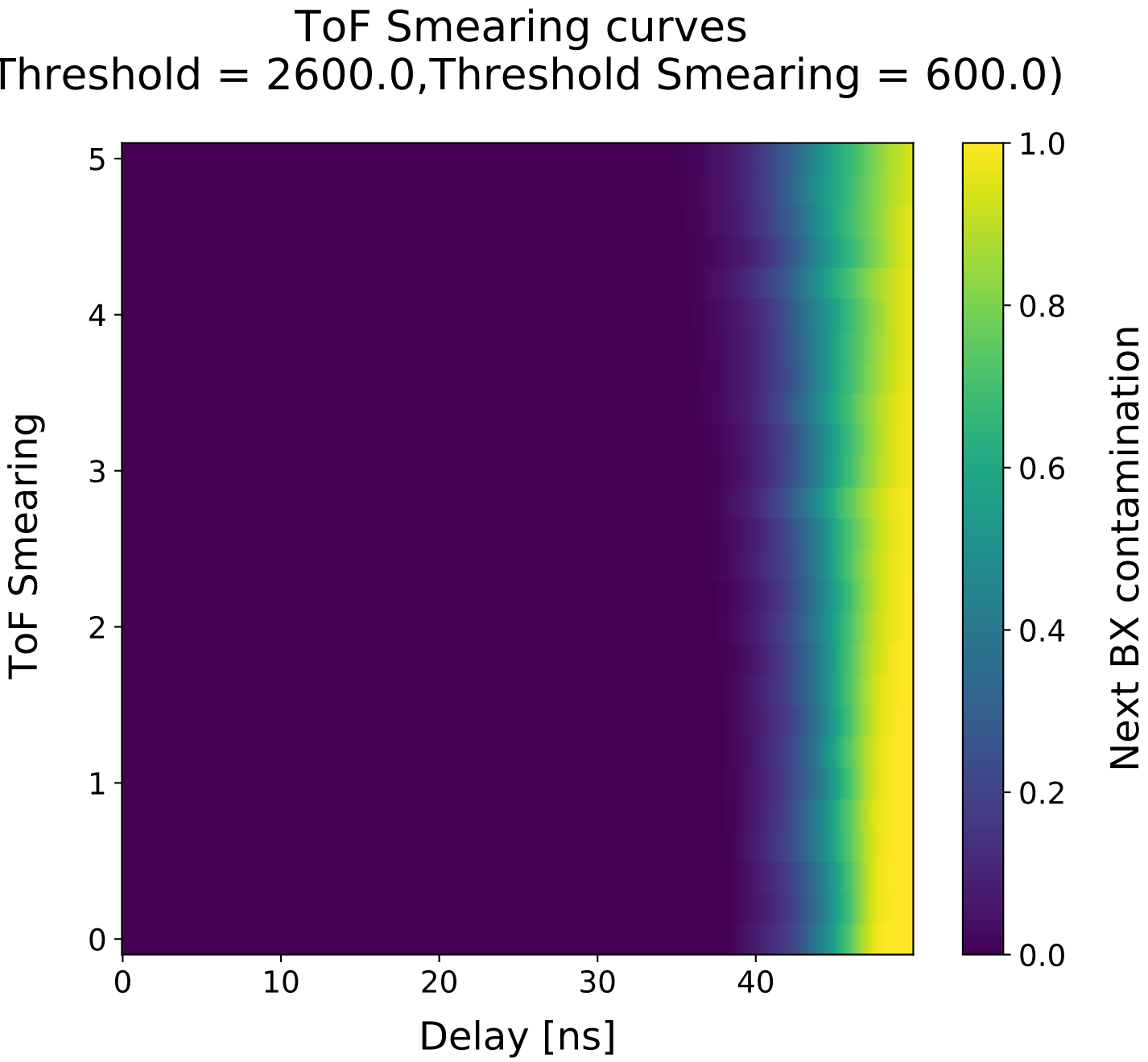

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

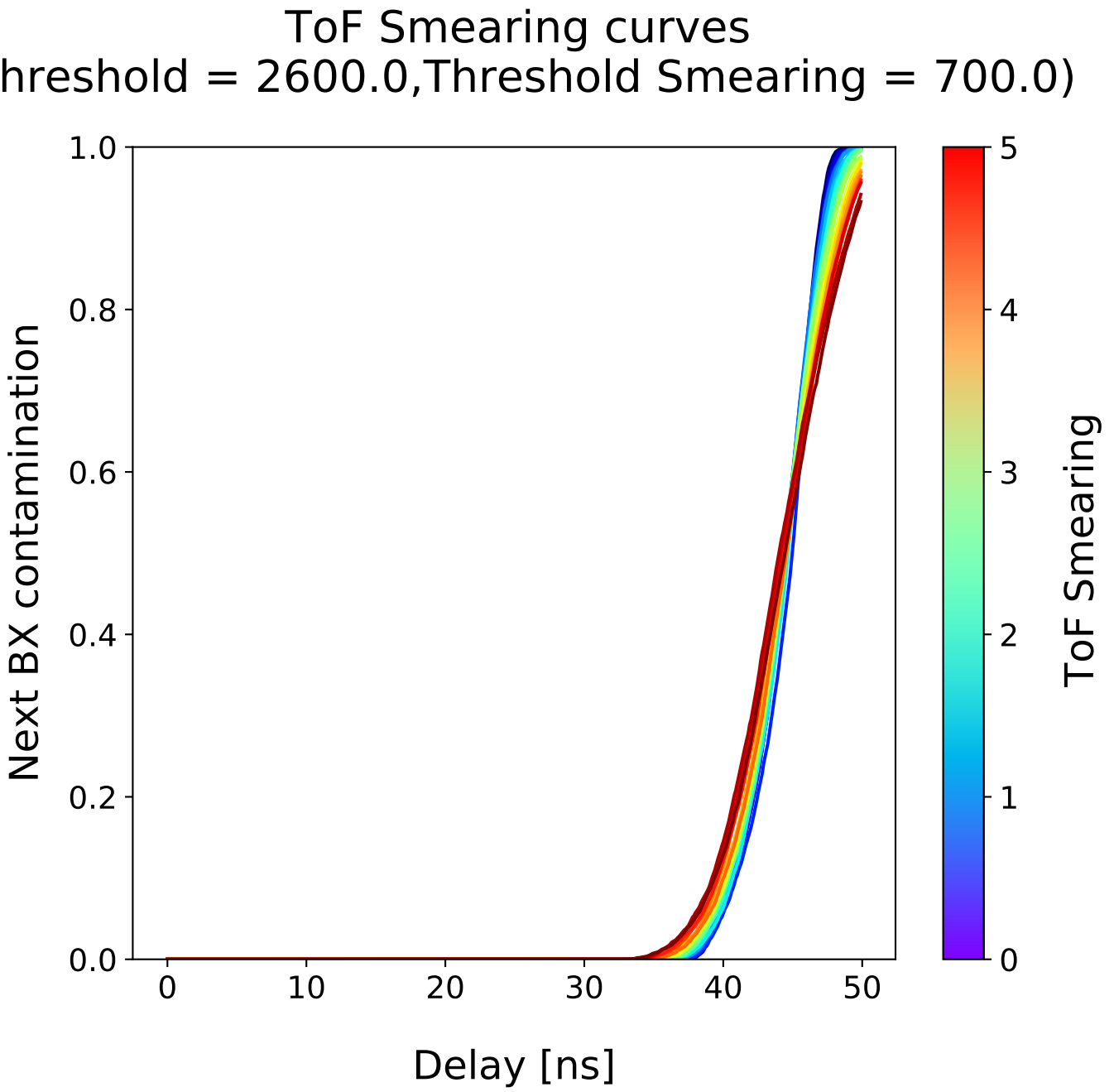

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

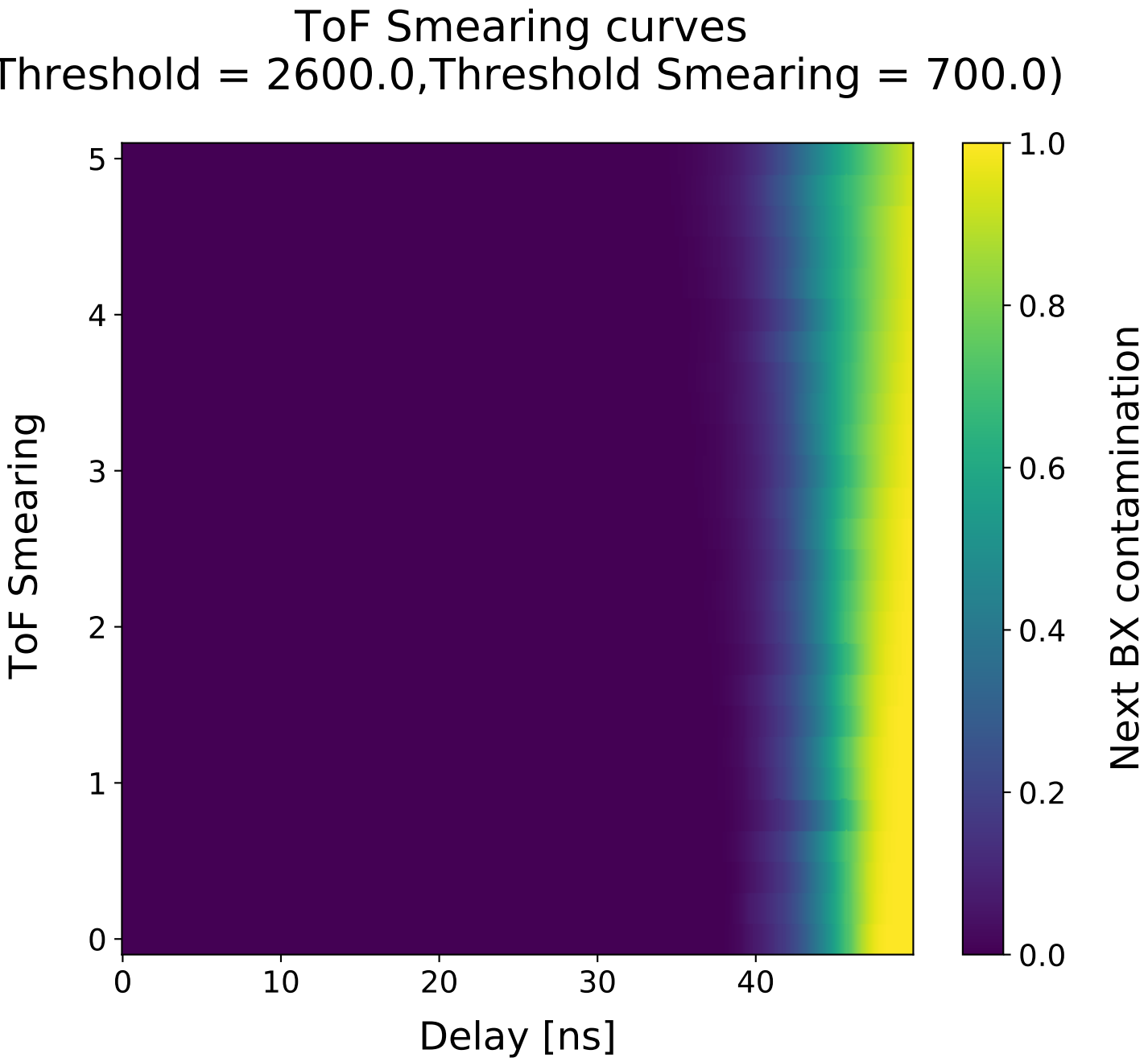

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

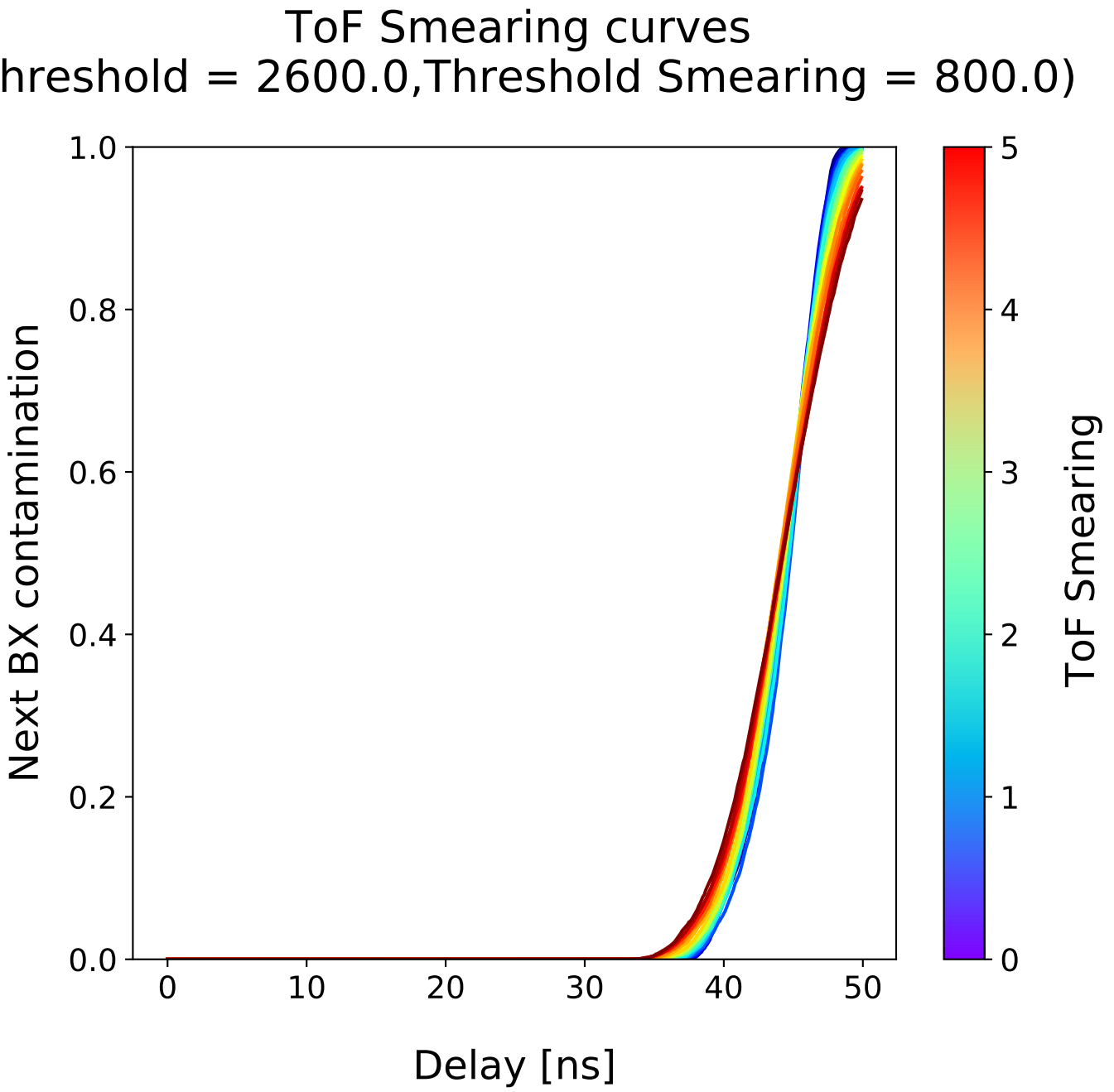

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

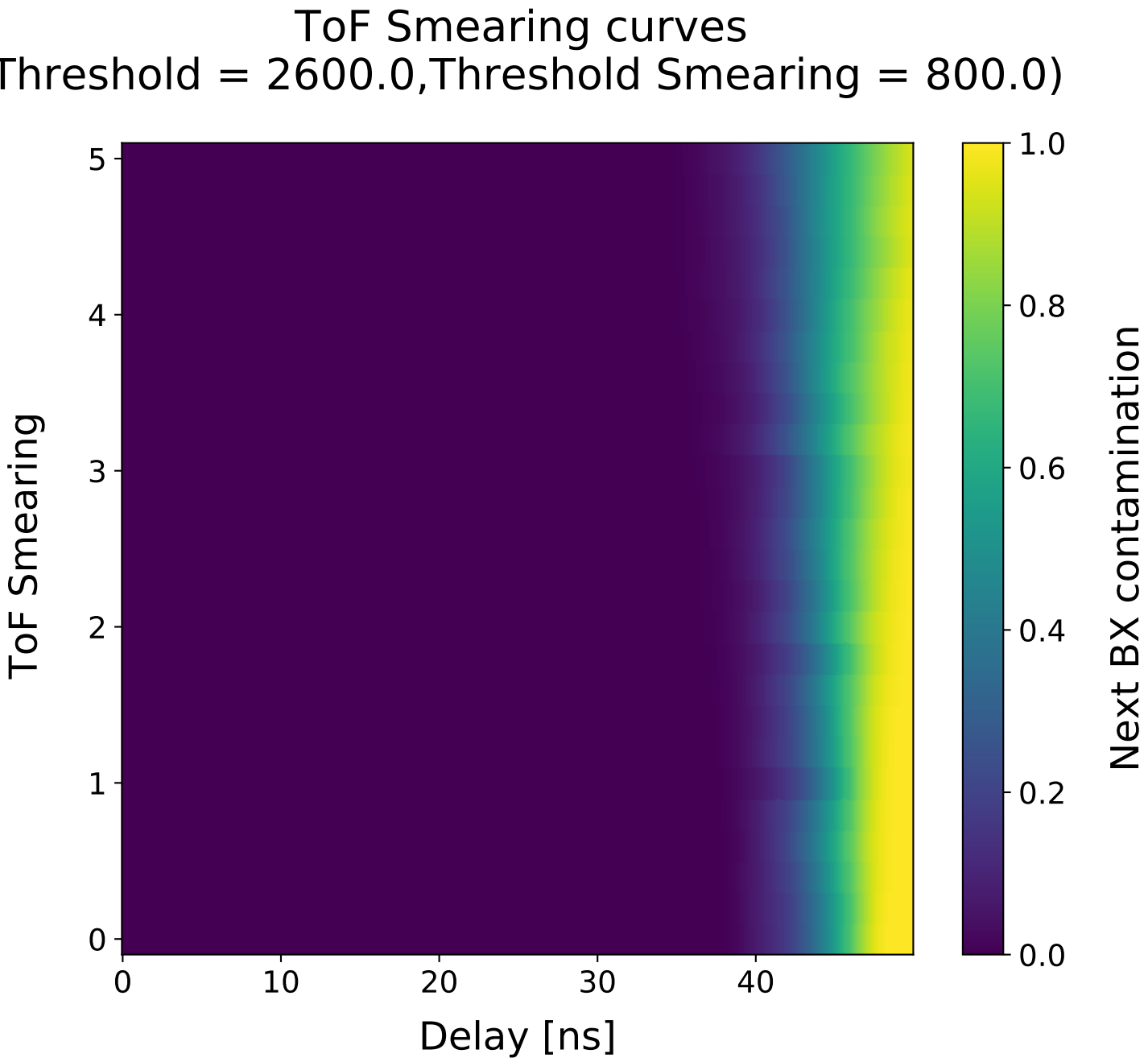

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

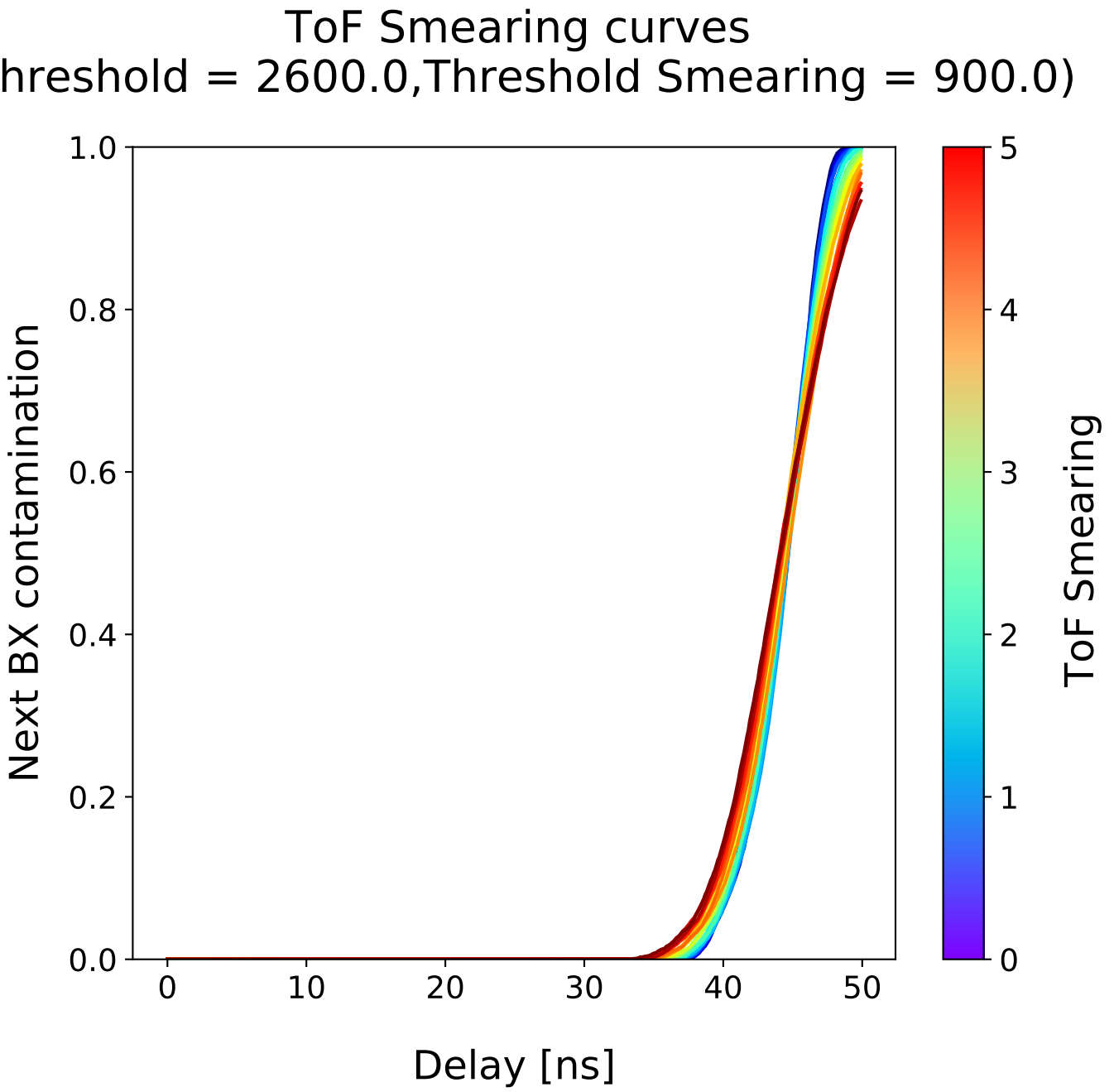

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

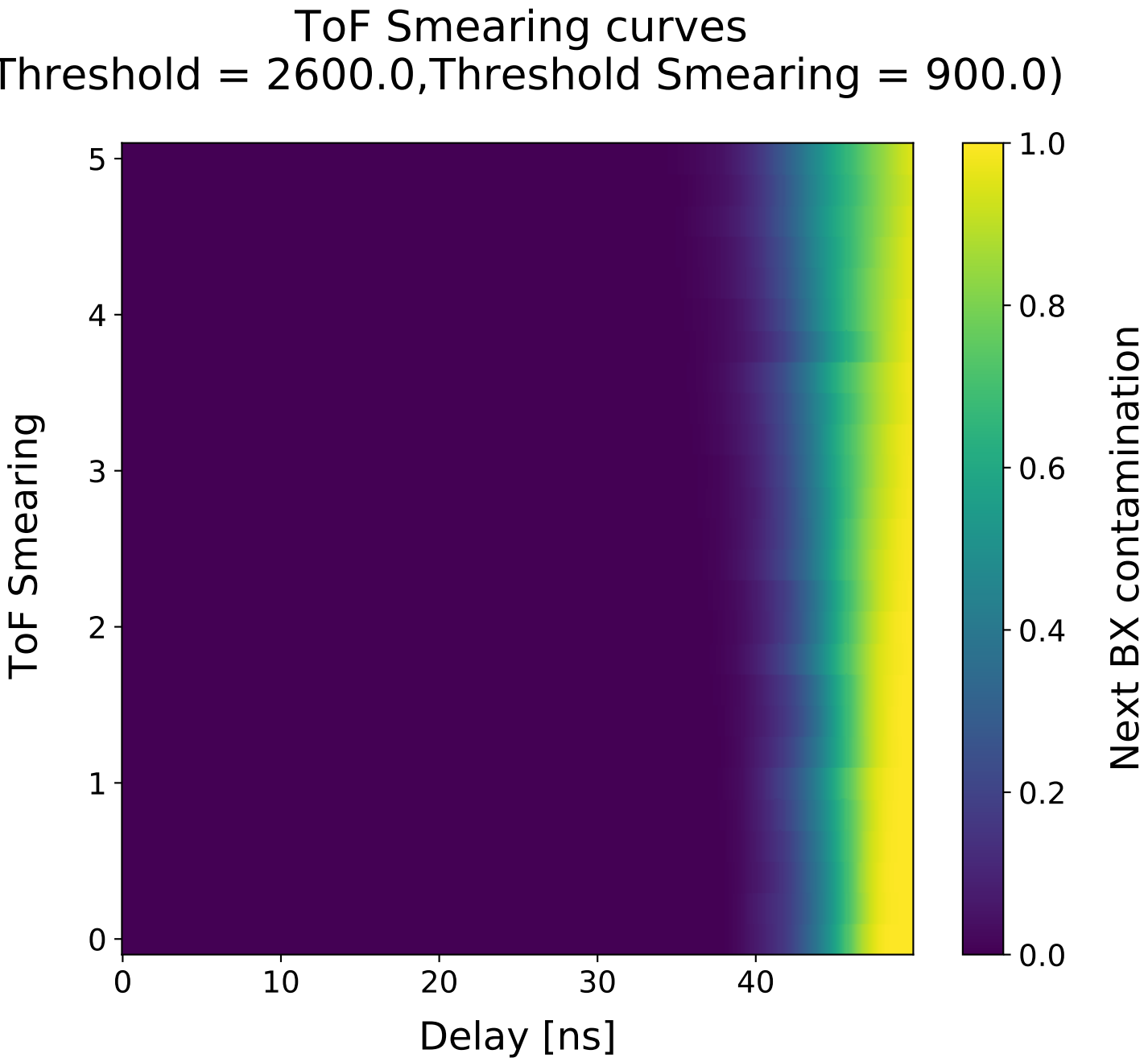

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

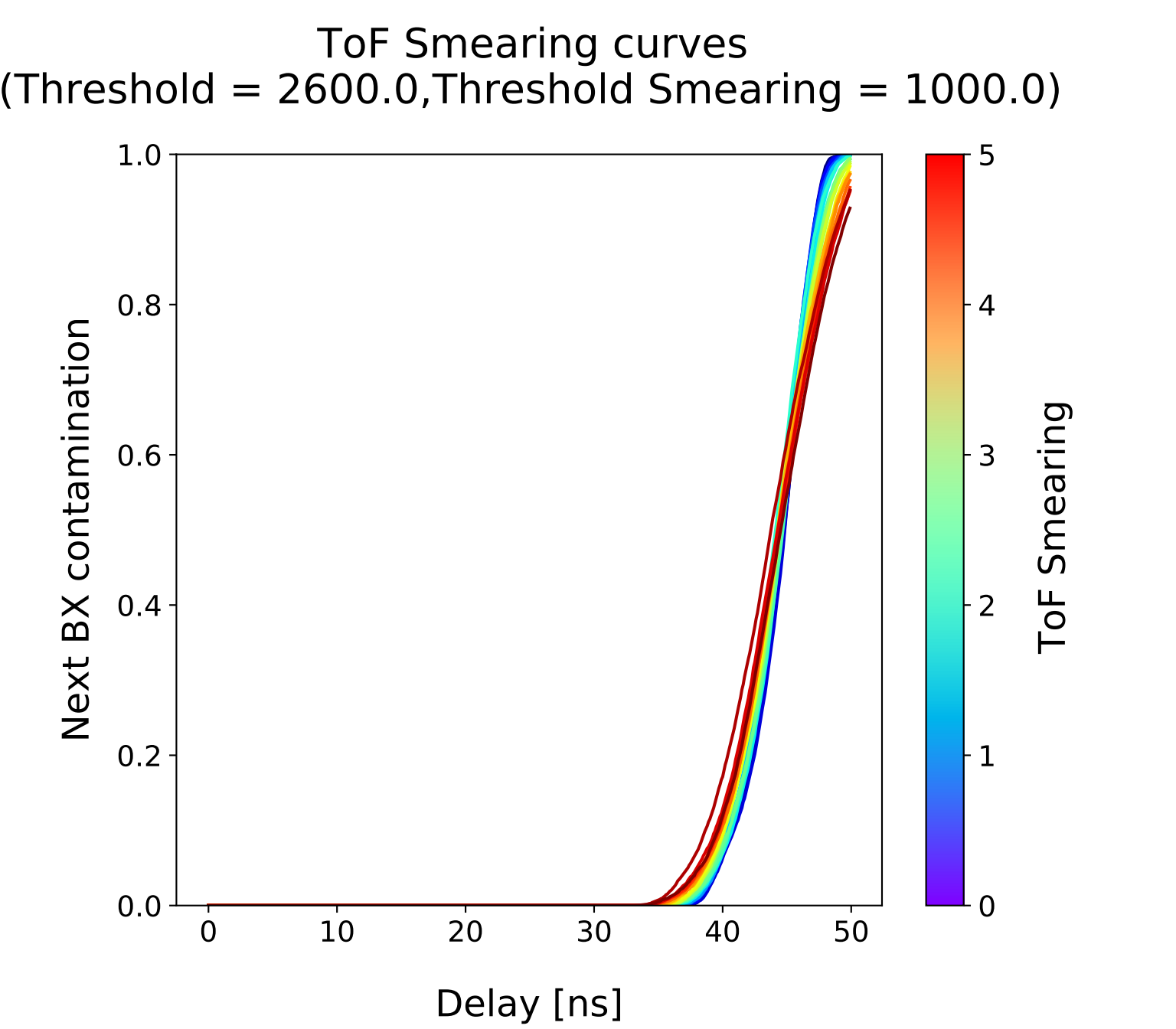

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

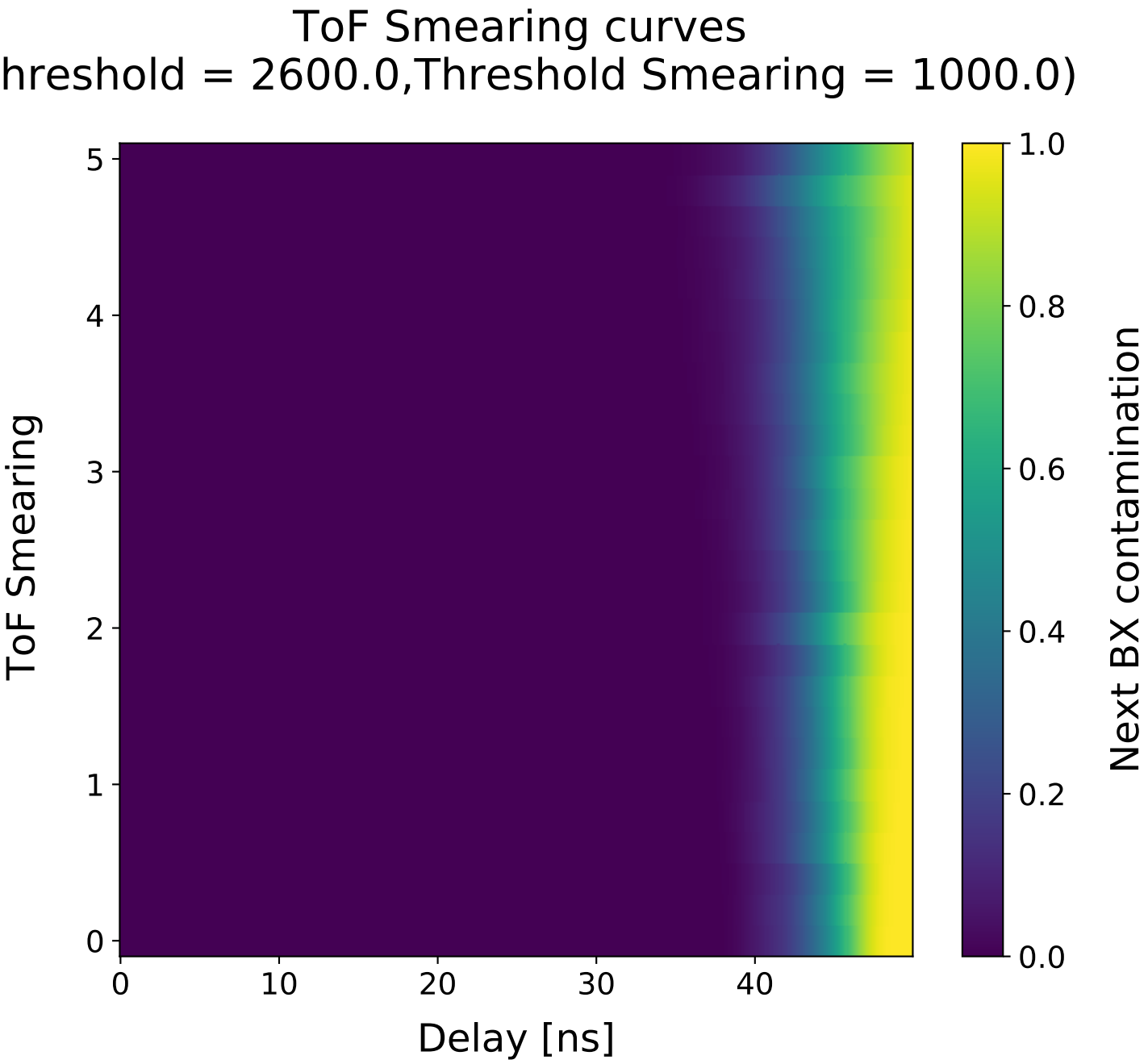

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

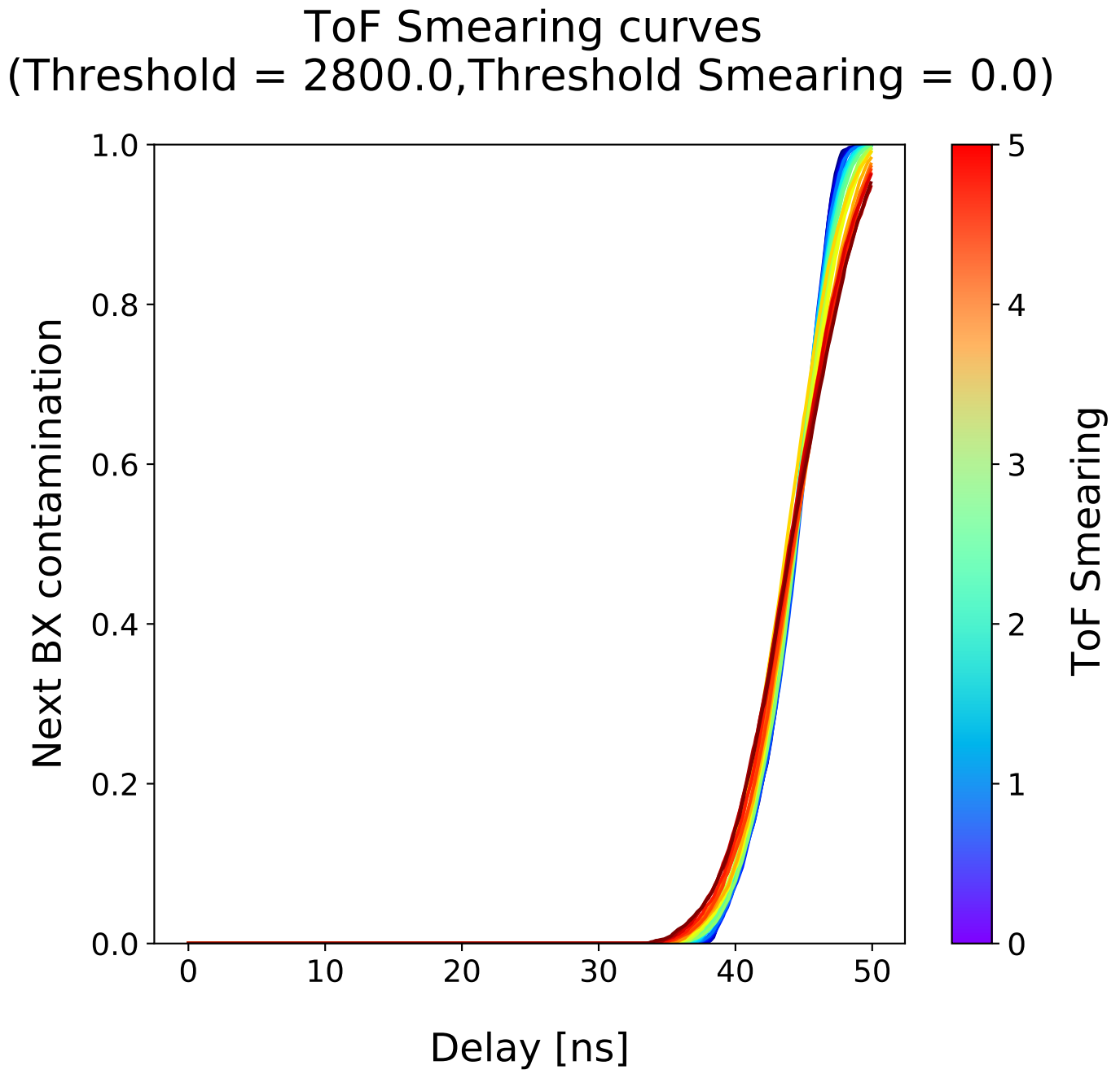

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

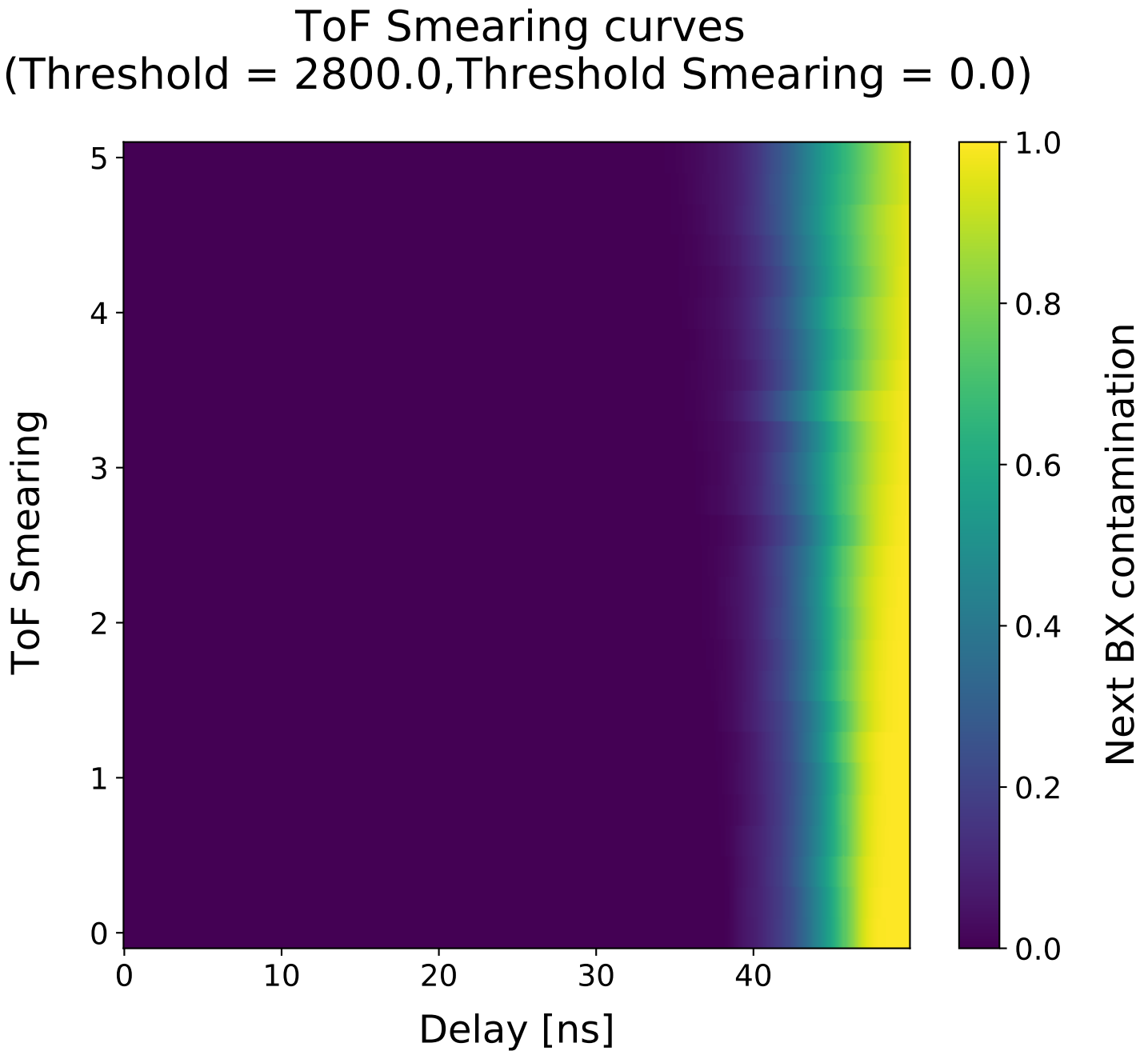

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

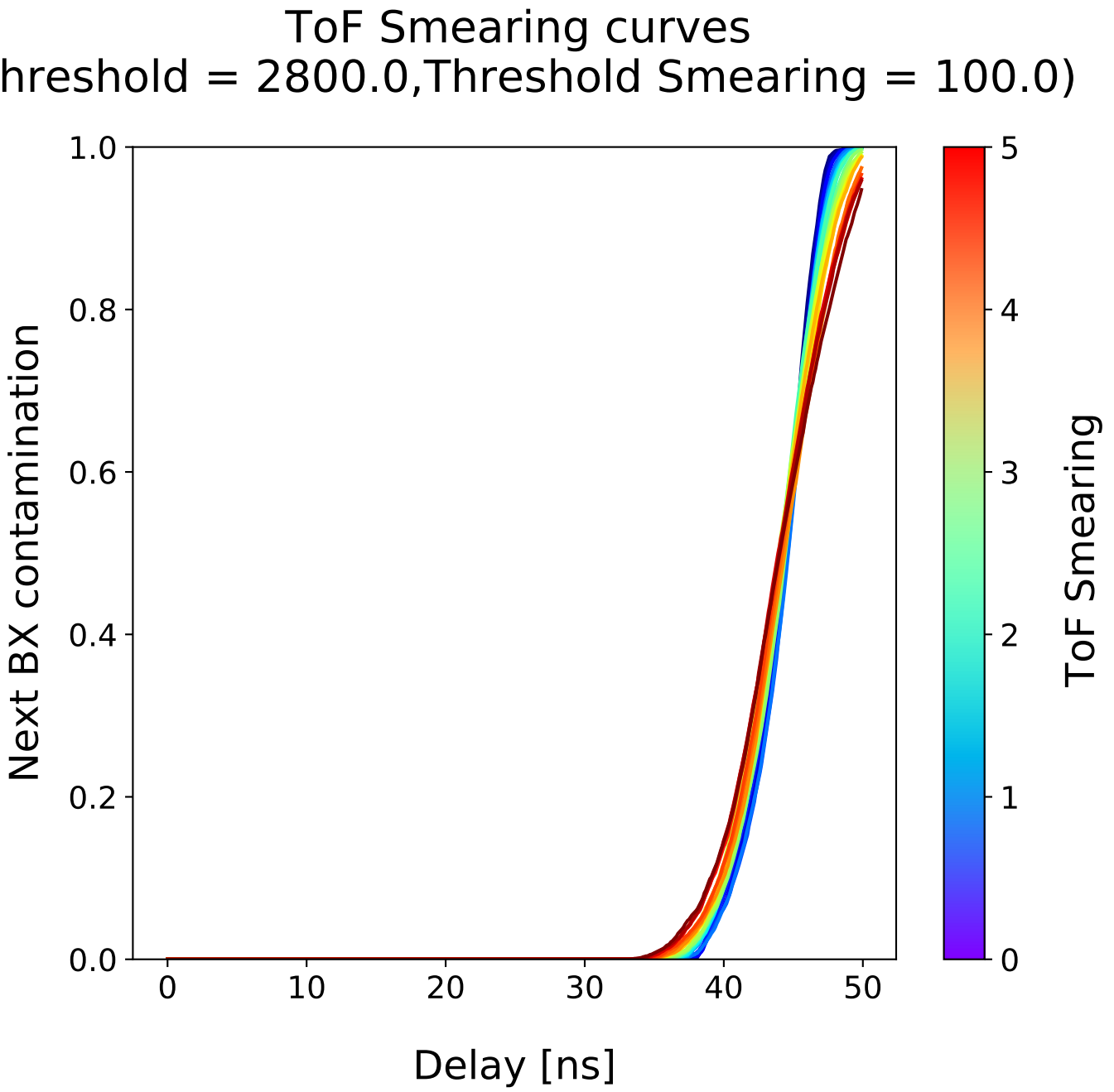

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

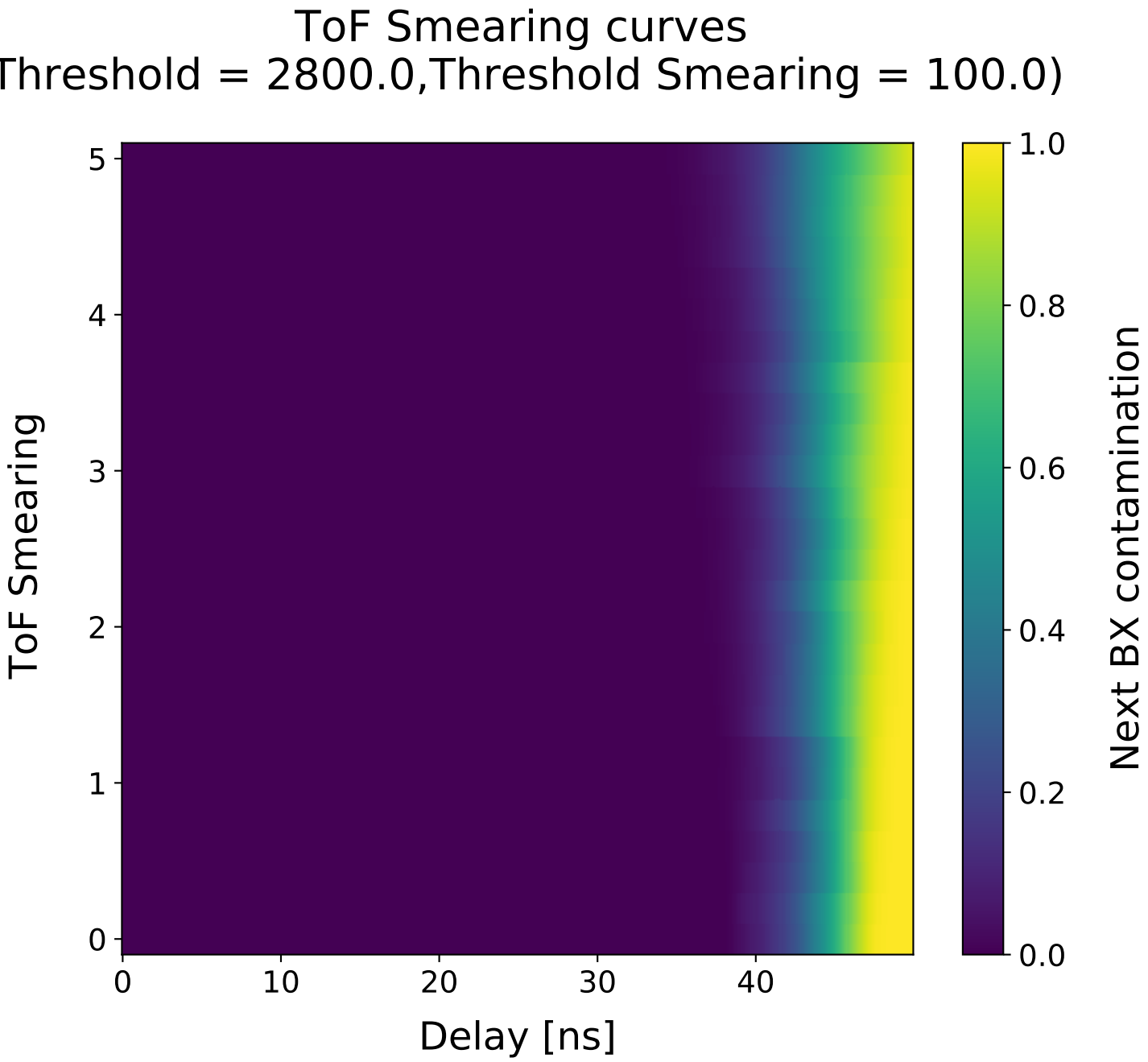

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
5
4
3
2
1
0

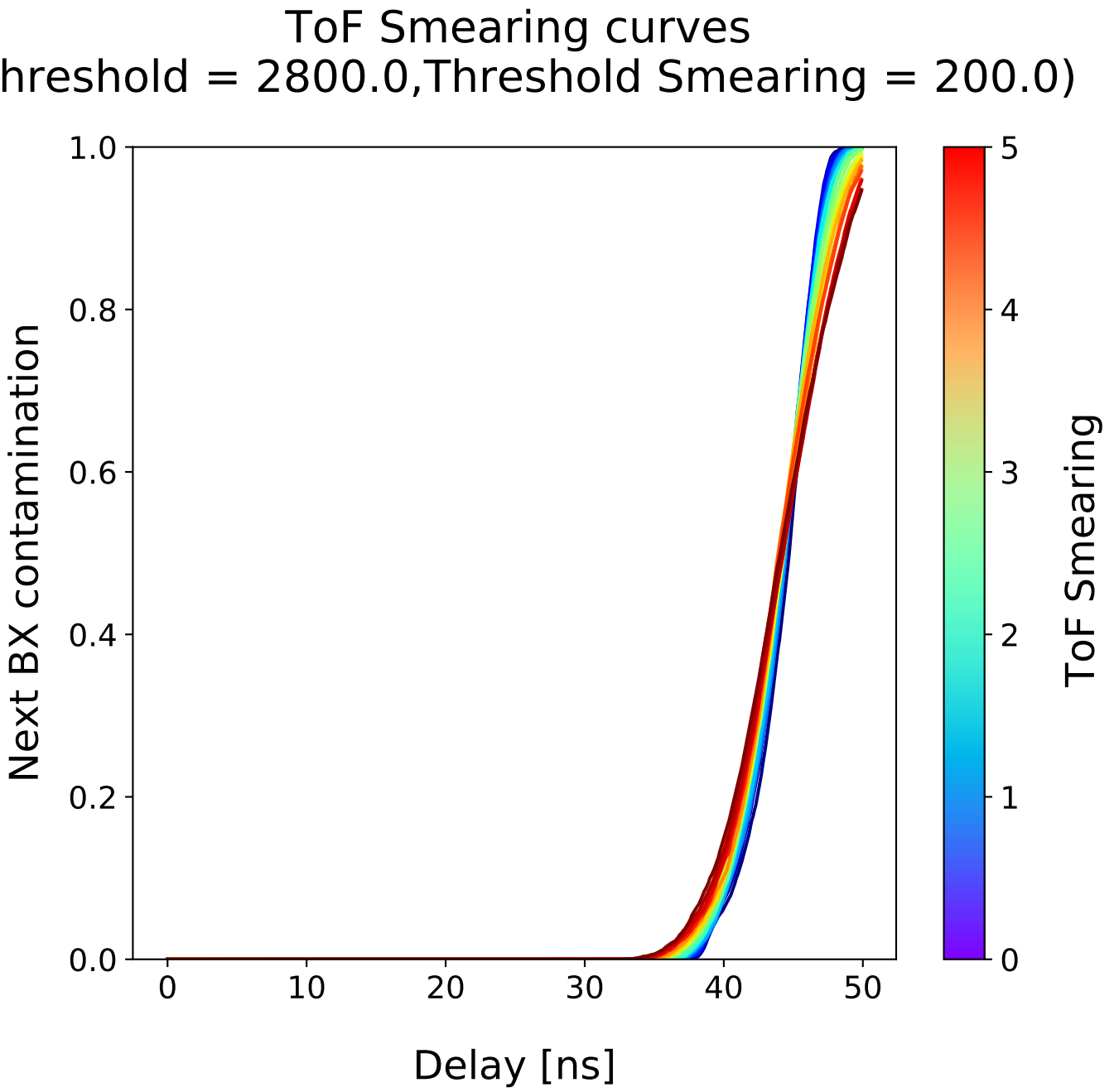

ToF Smearing curves
(Threshold = 2600.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

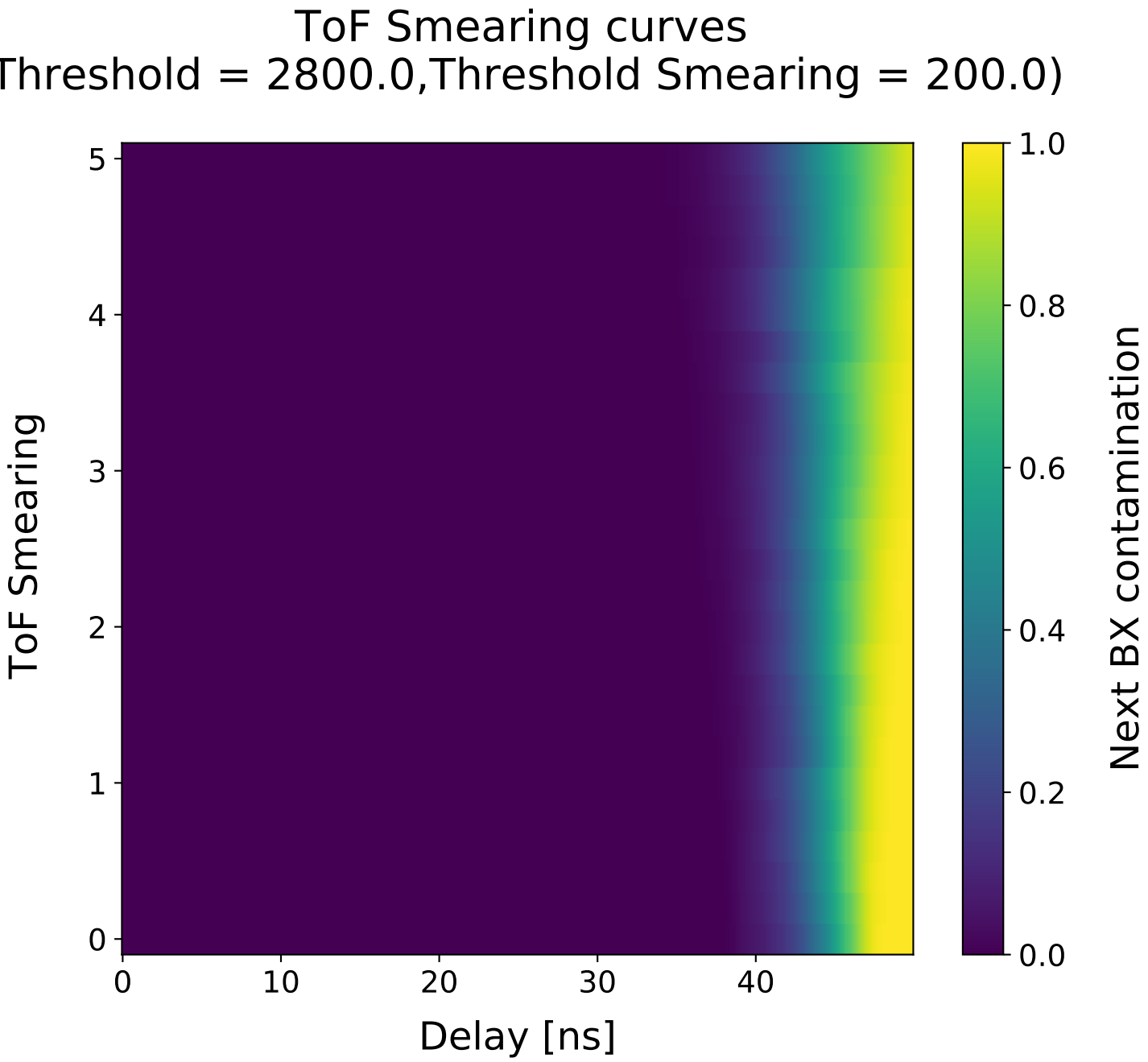

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

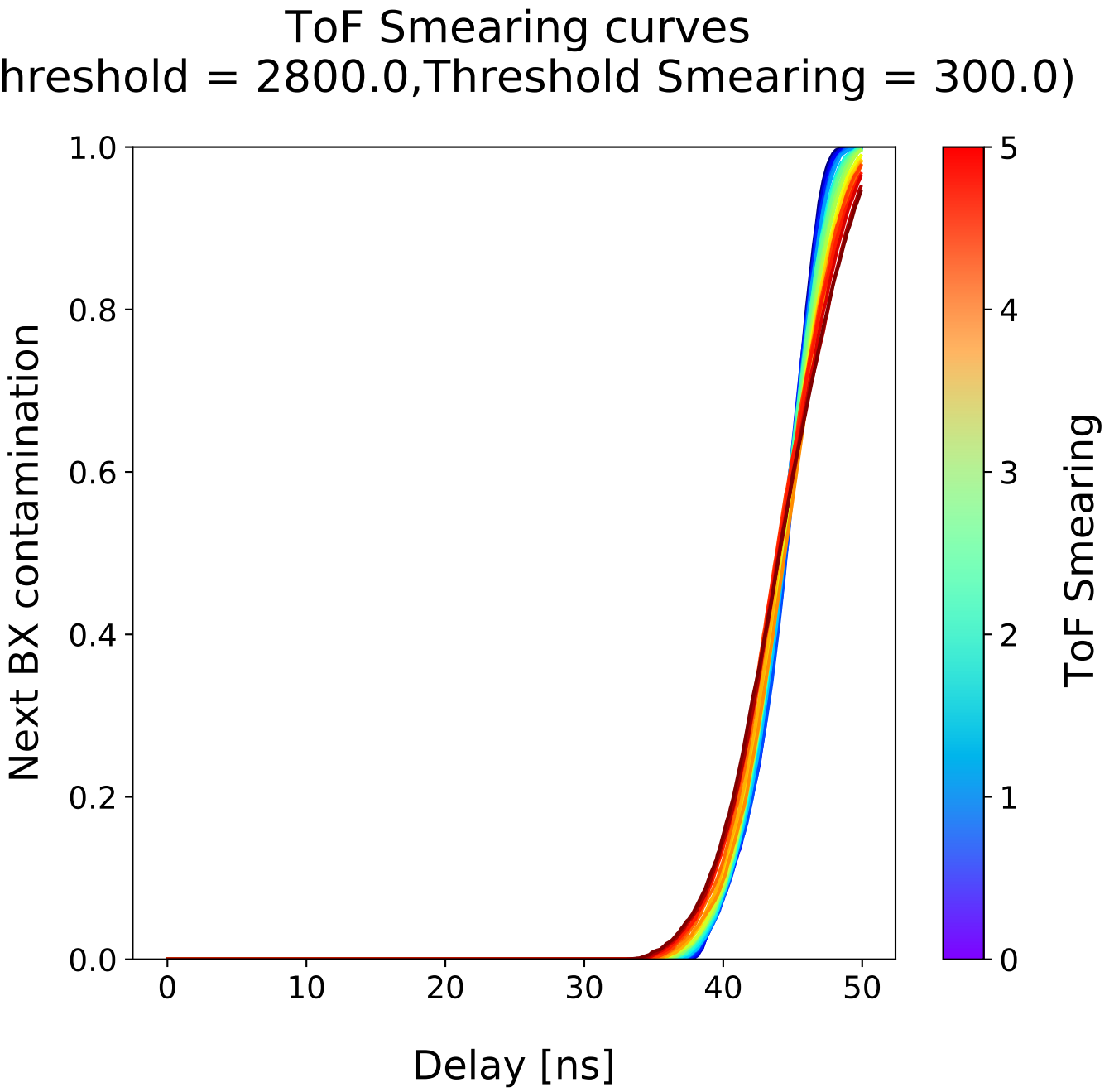

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

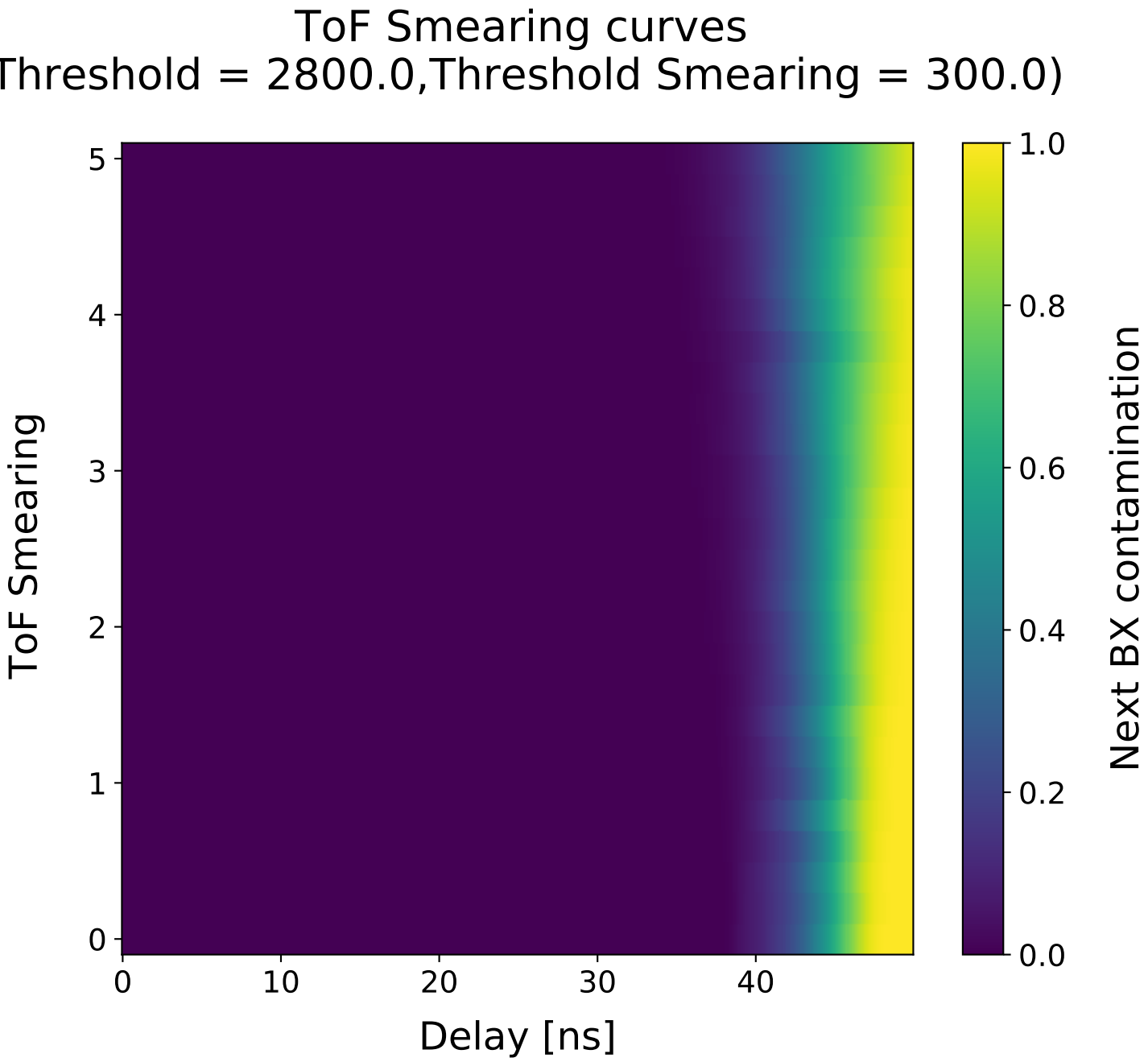

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

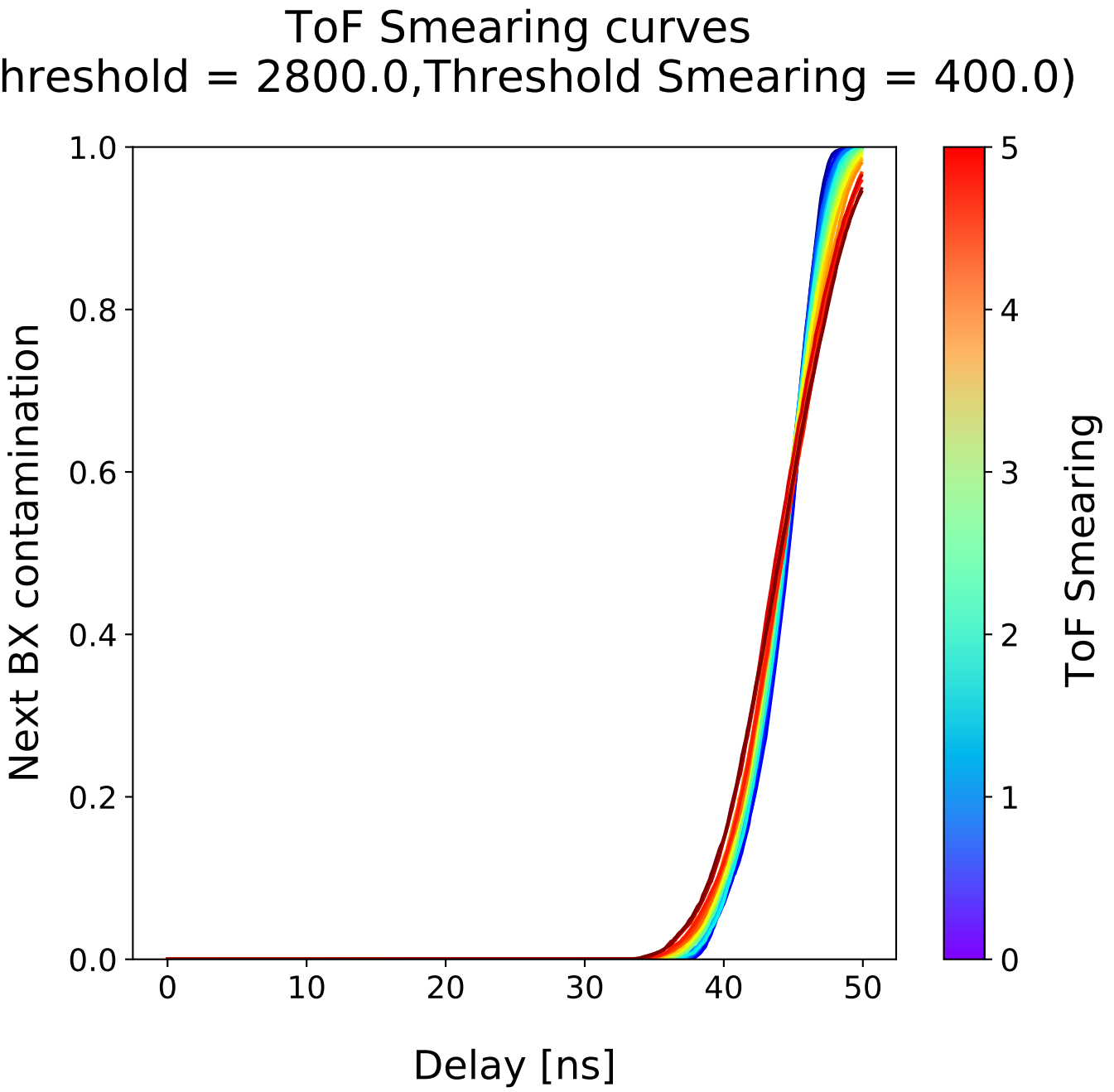

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

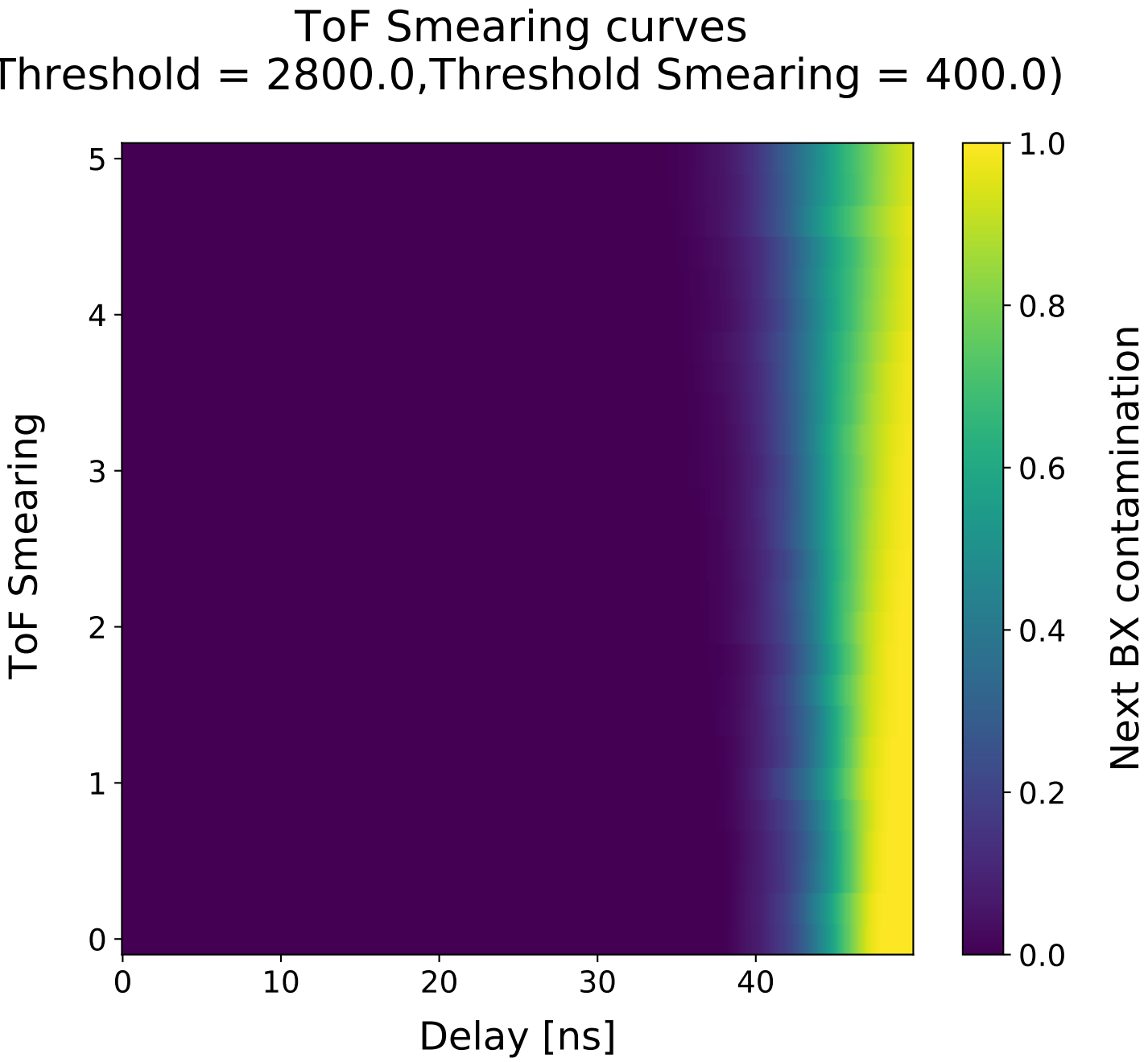

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

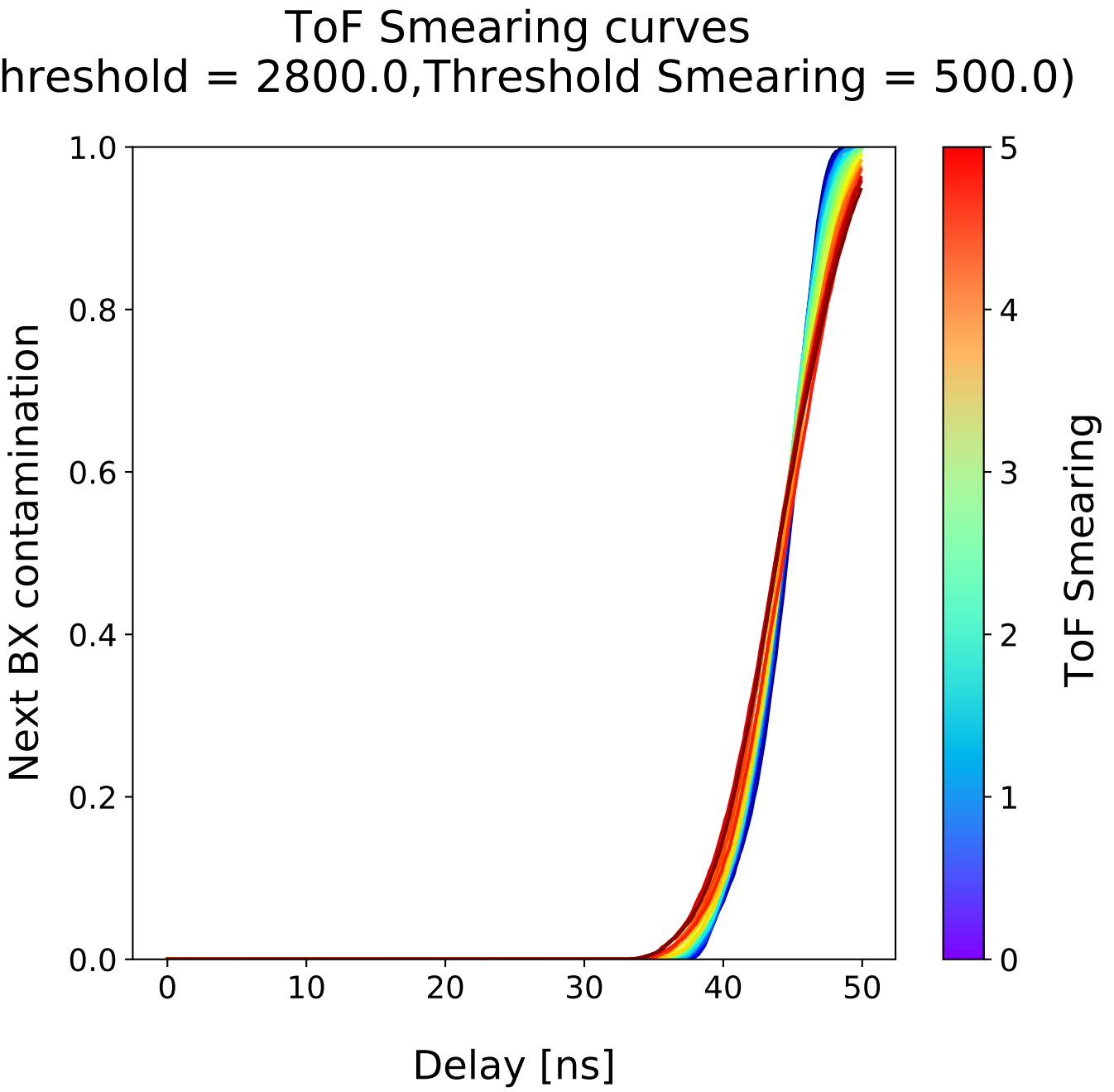

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

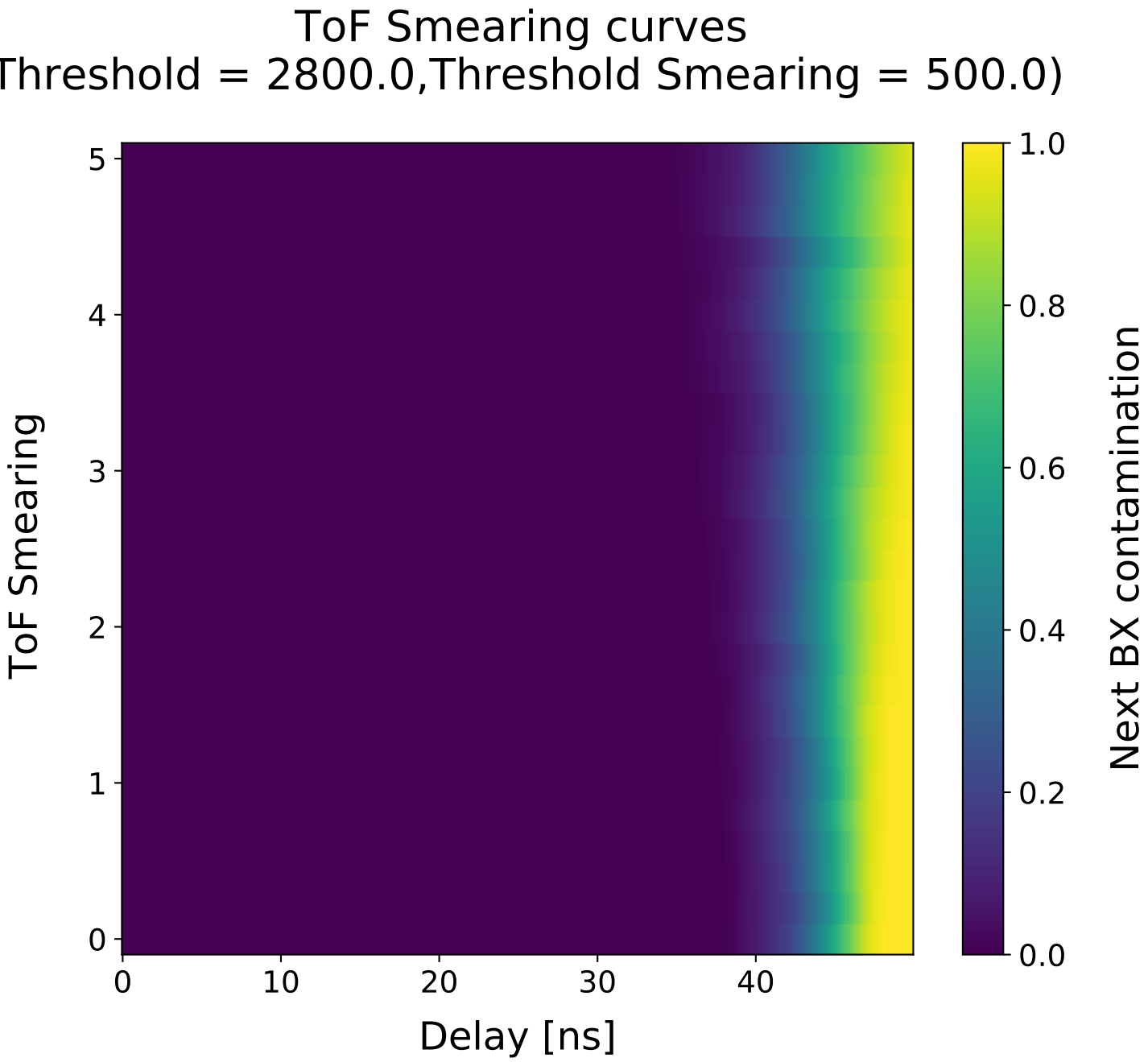

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

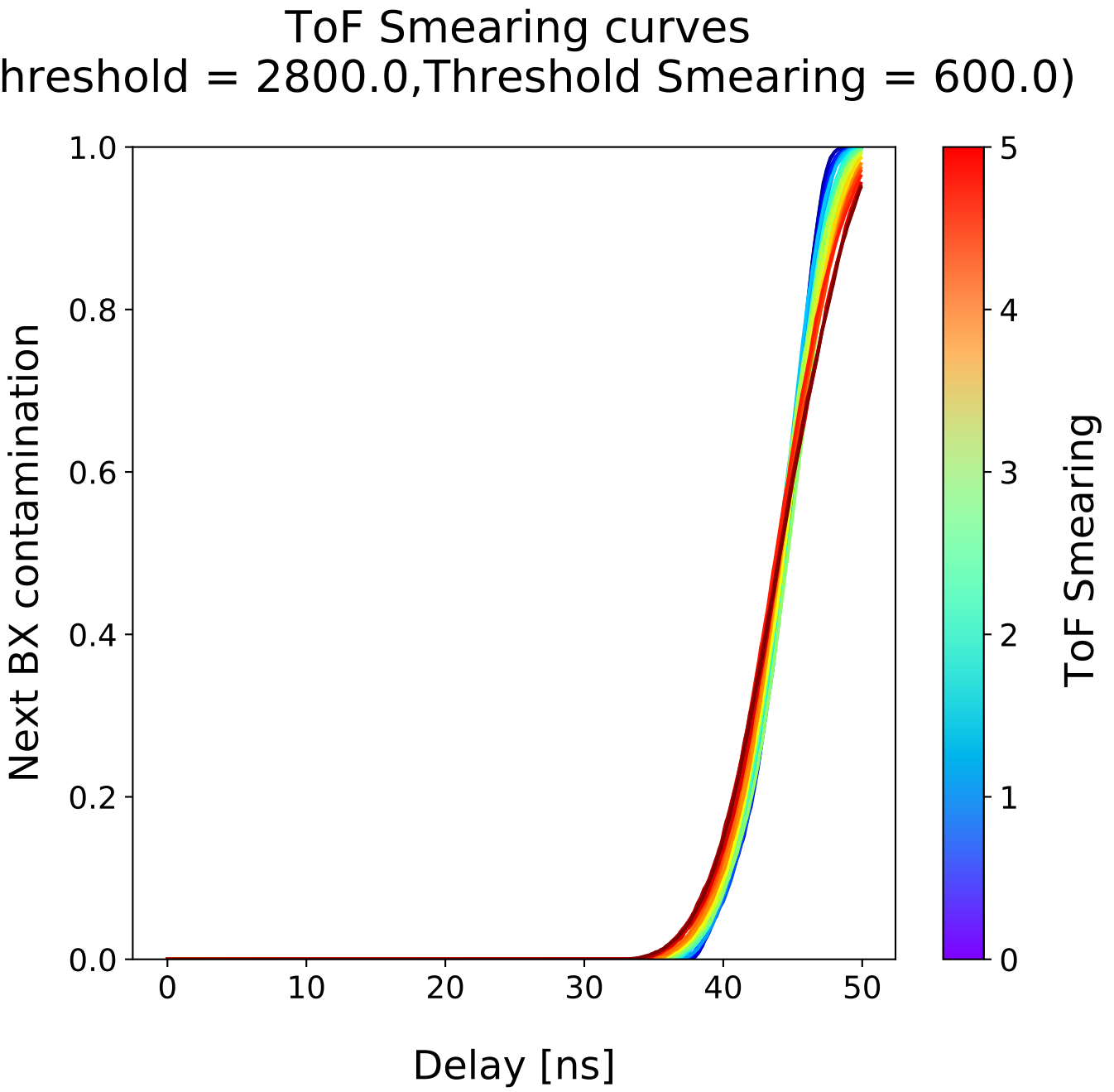

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

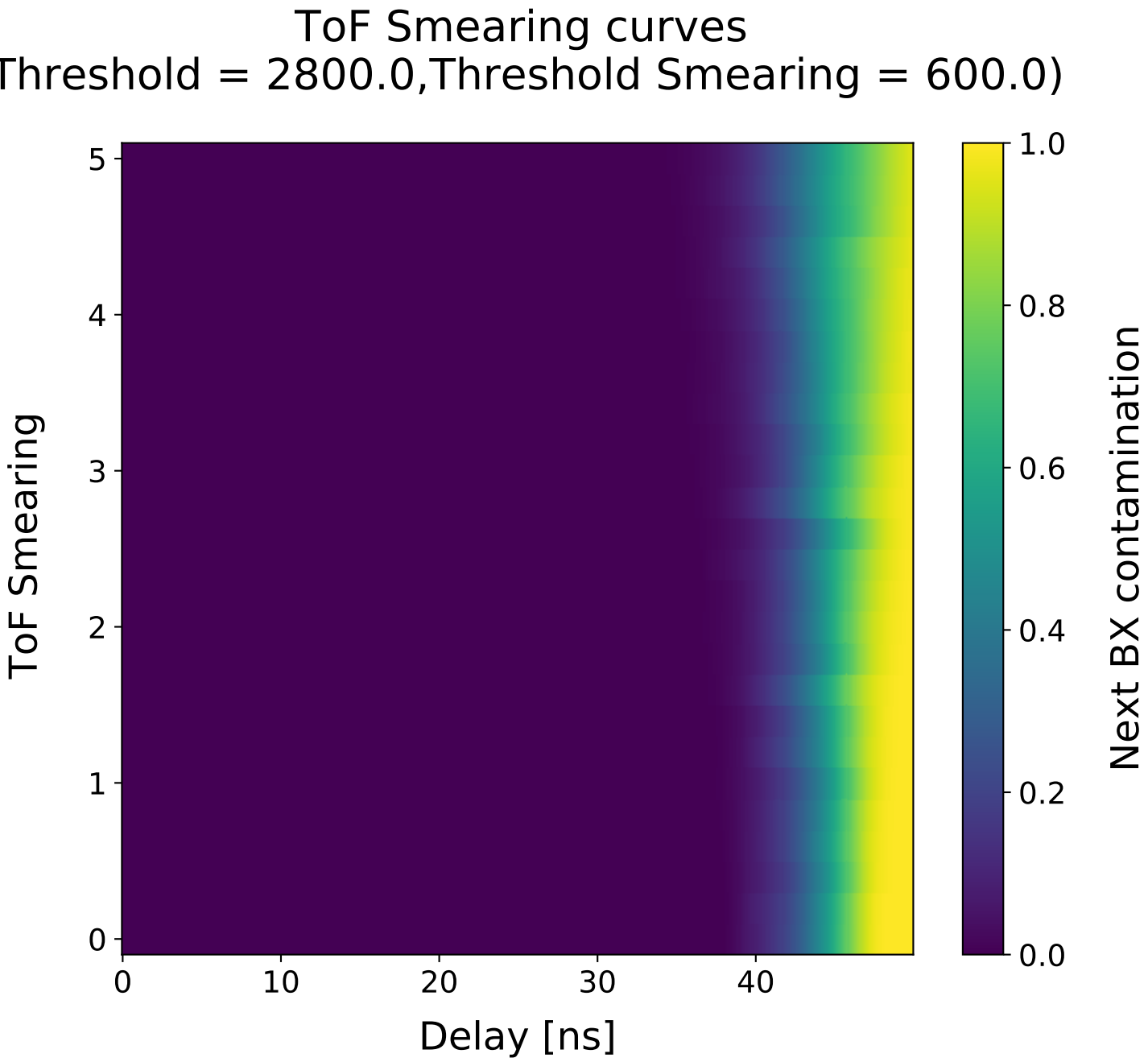

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

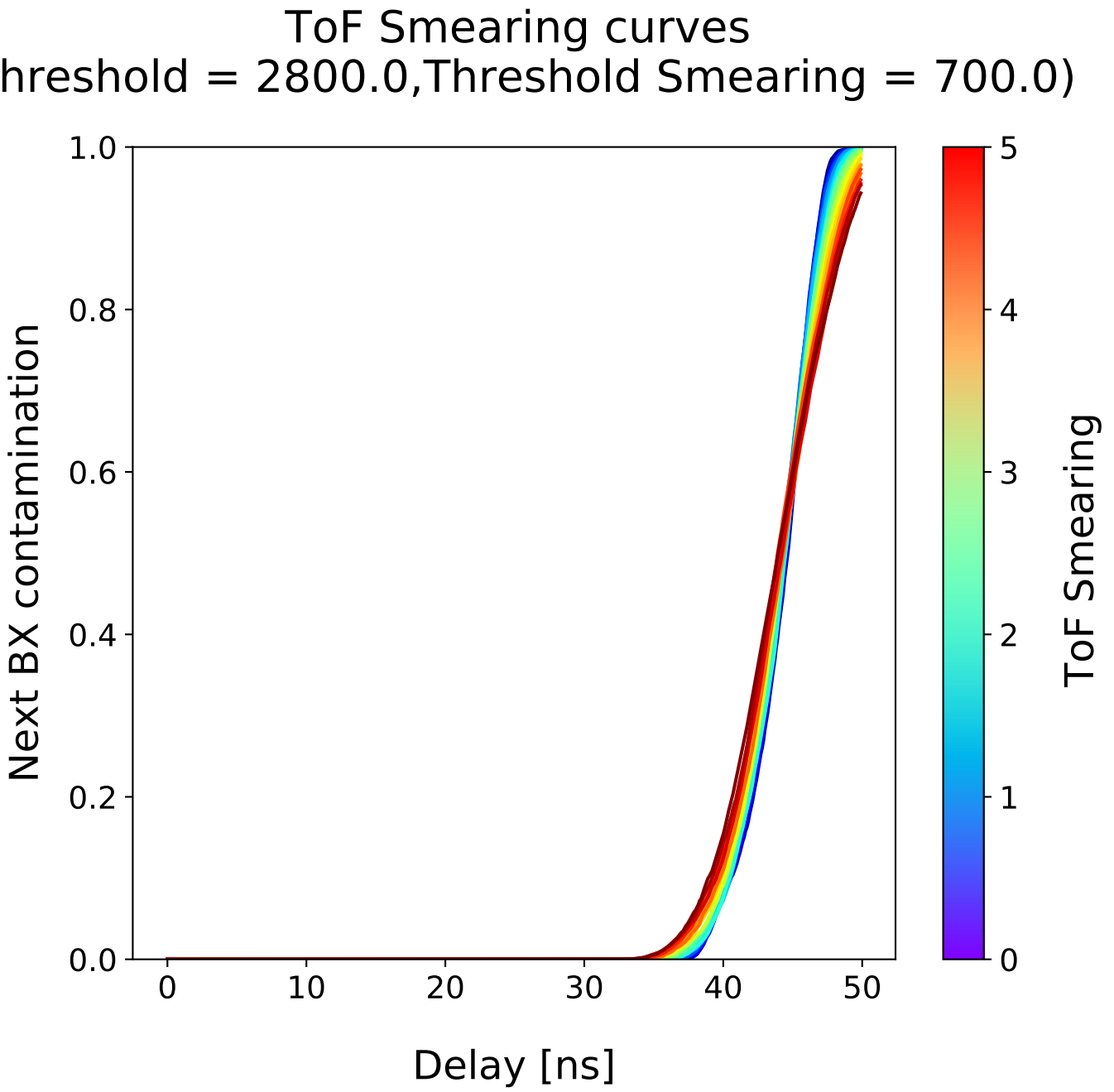

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

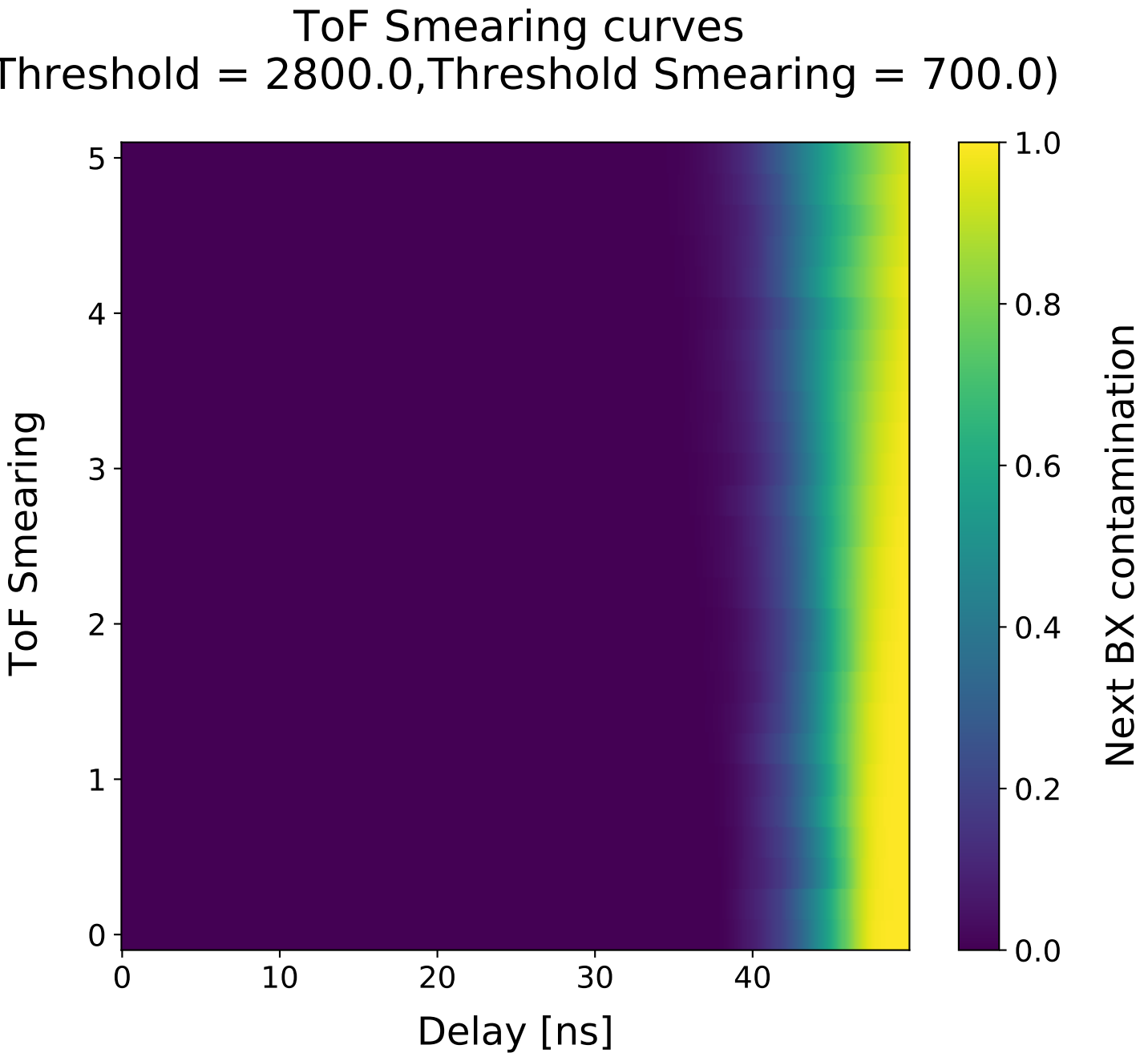

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

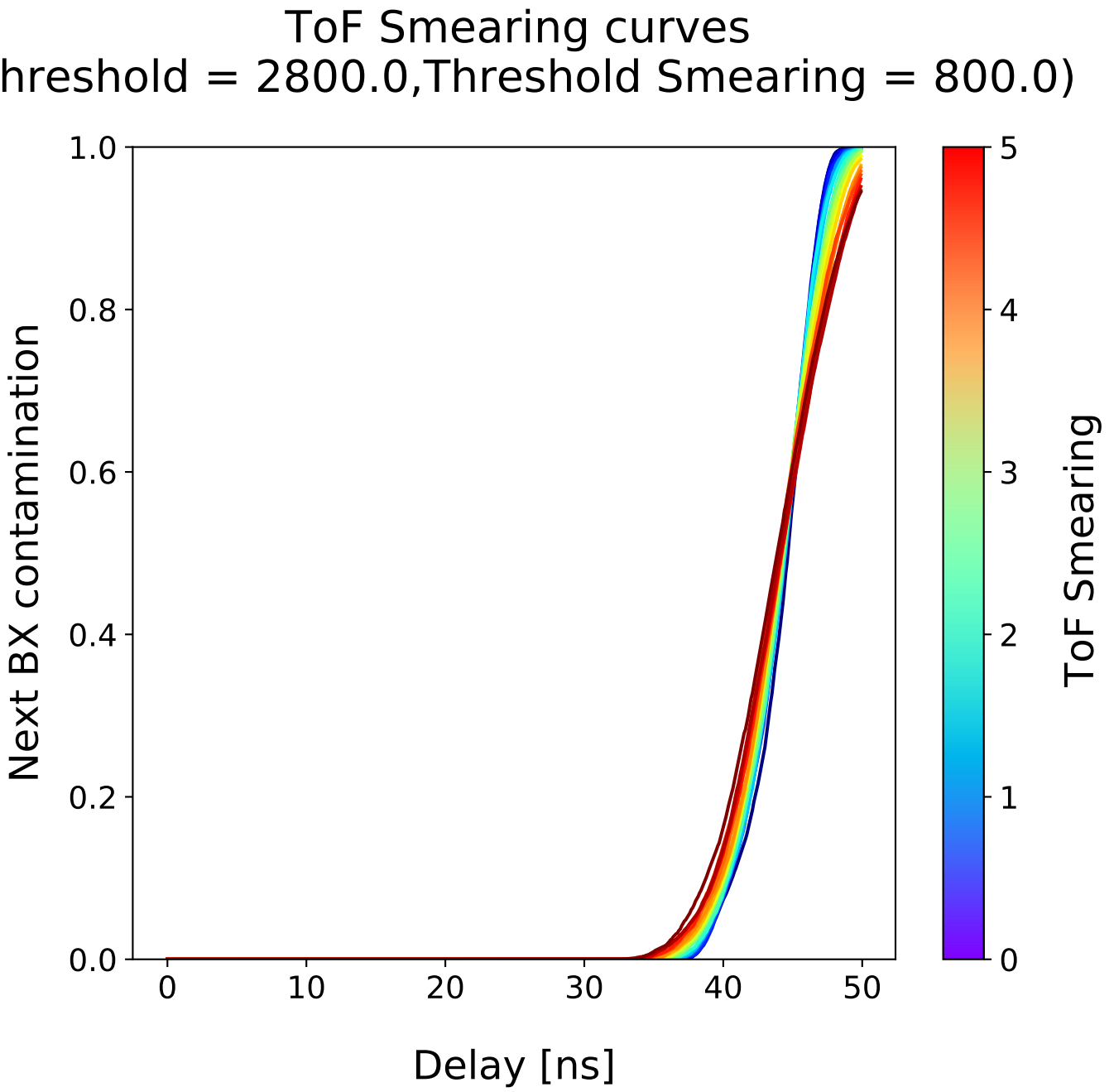

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

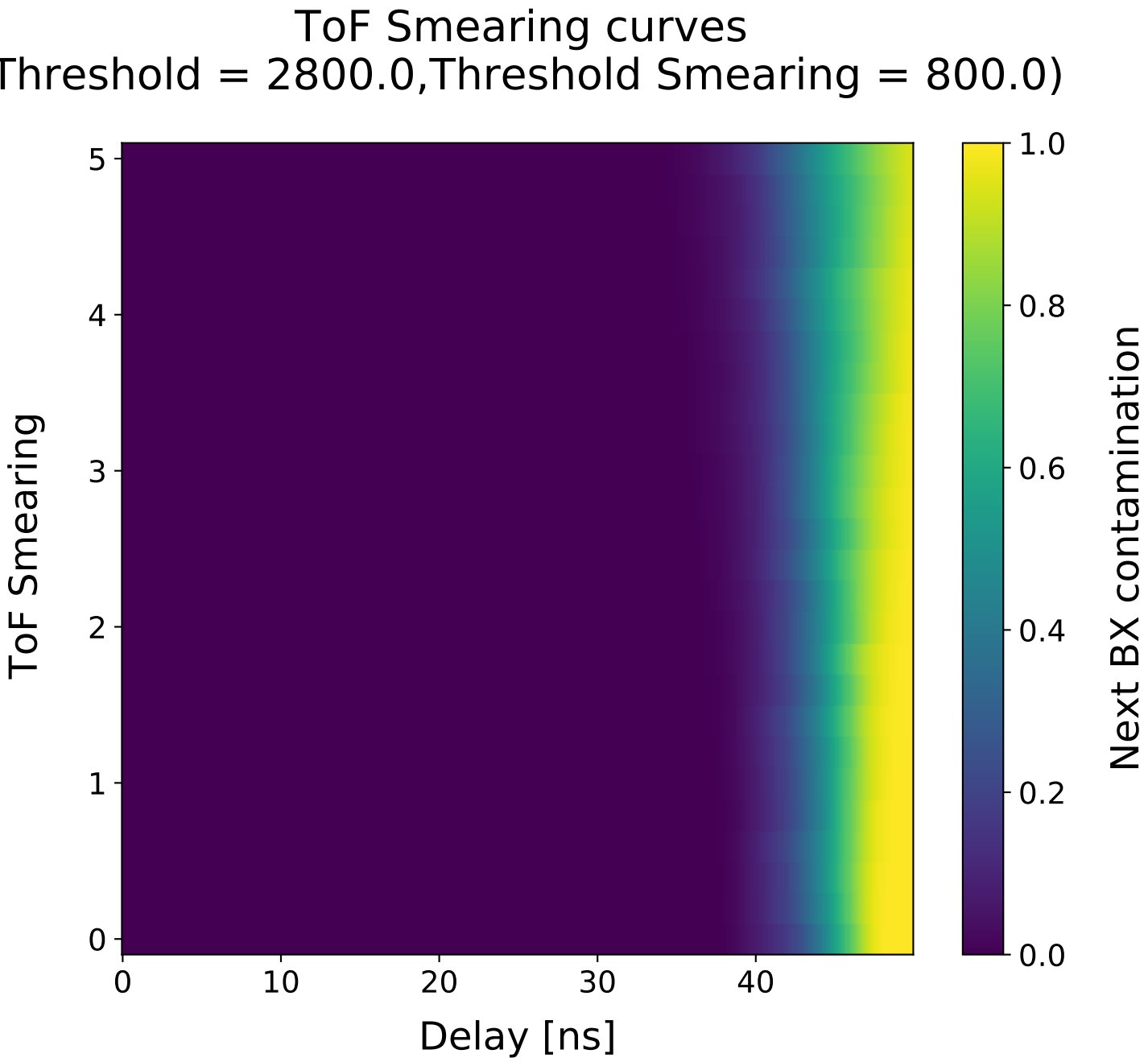

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

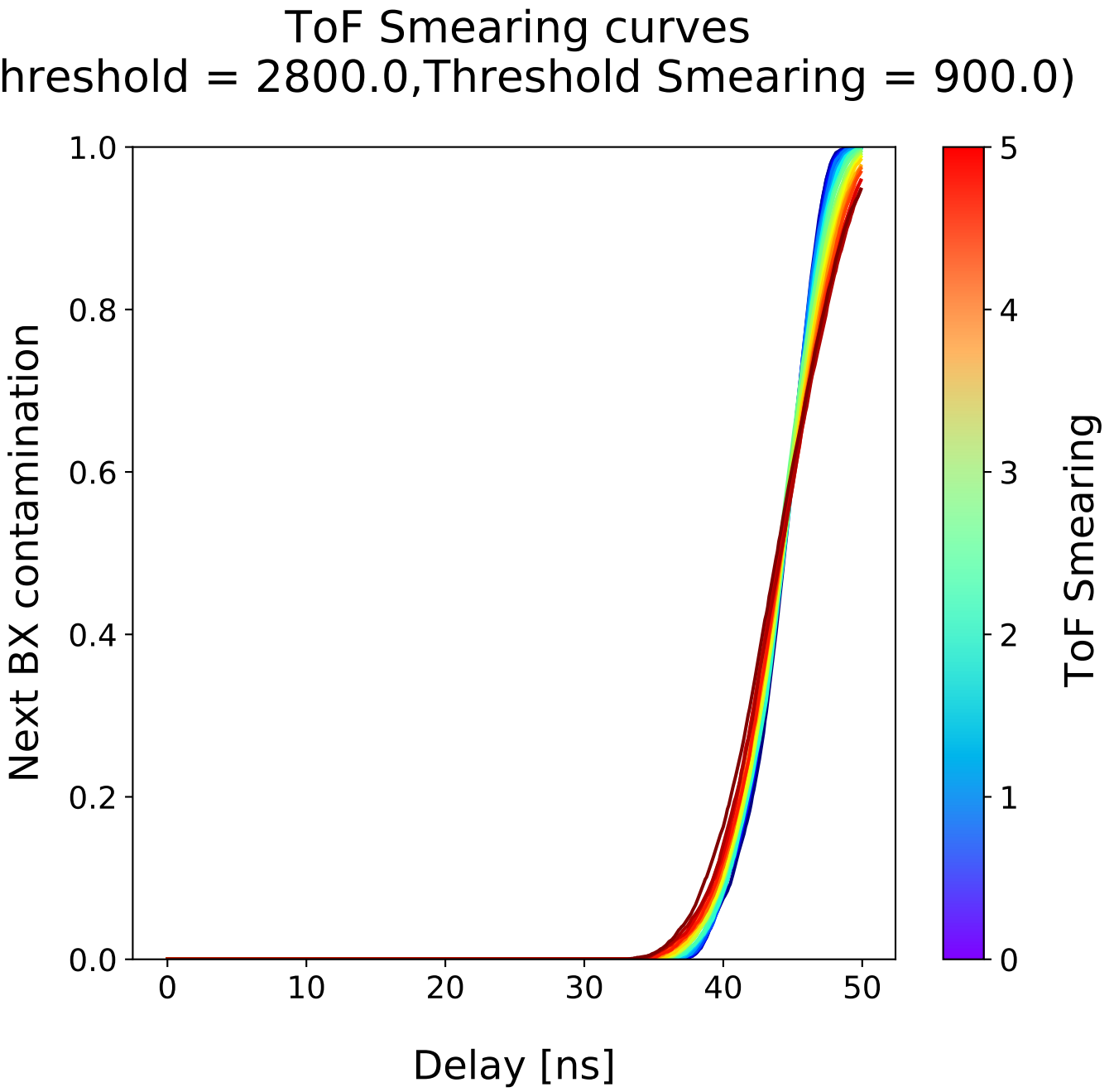

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

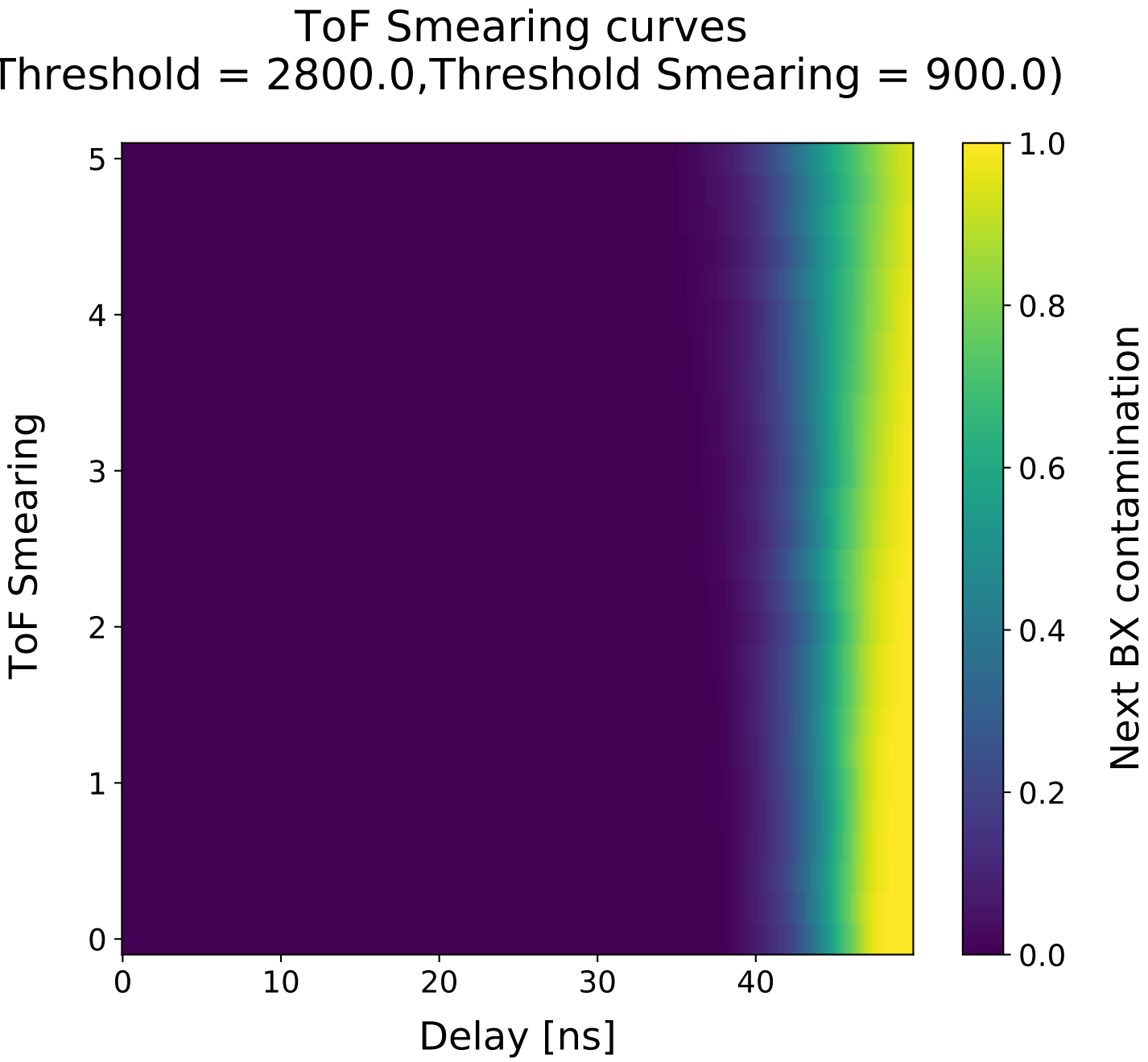

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

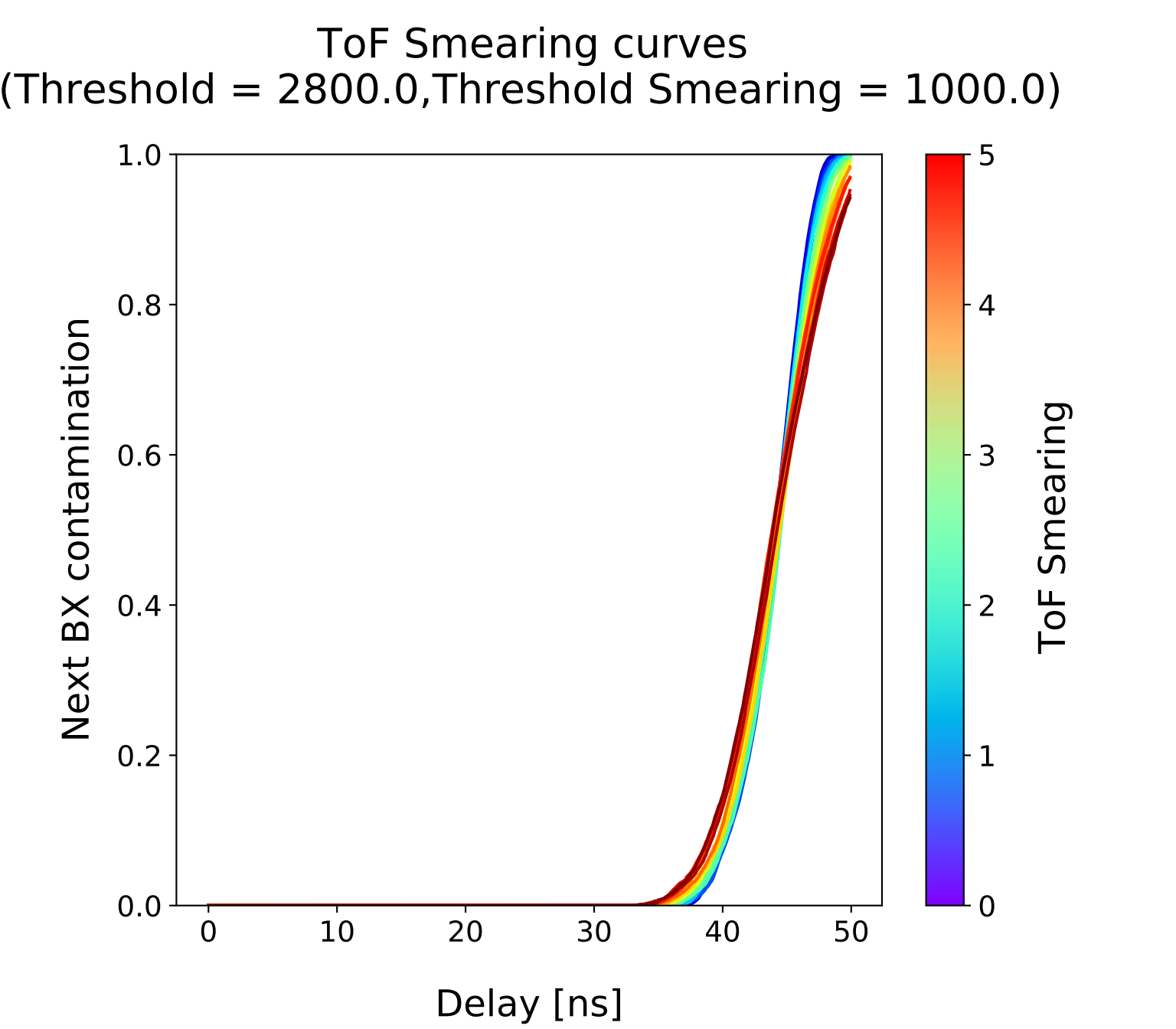

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

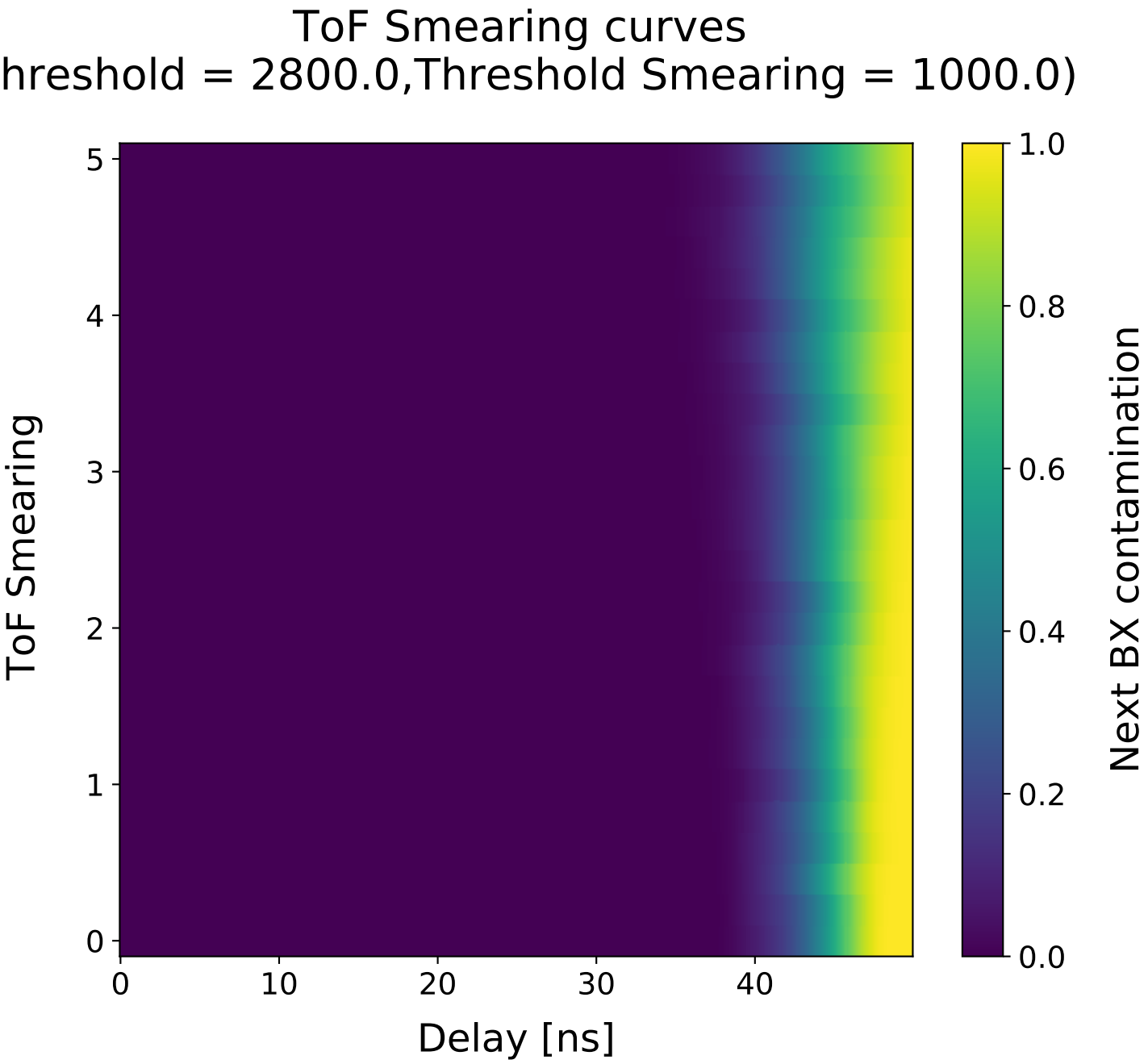

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

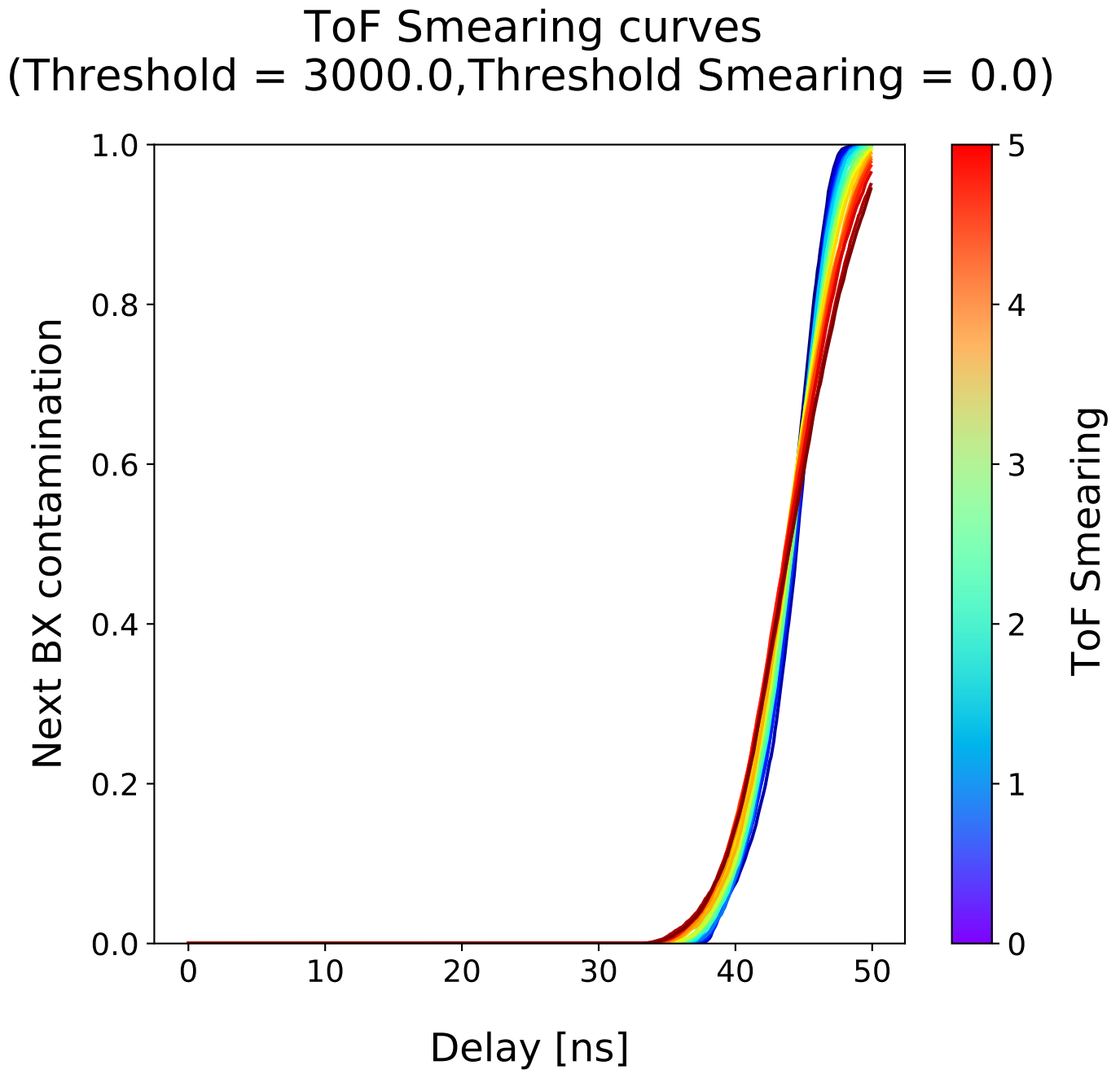

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

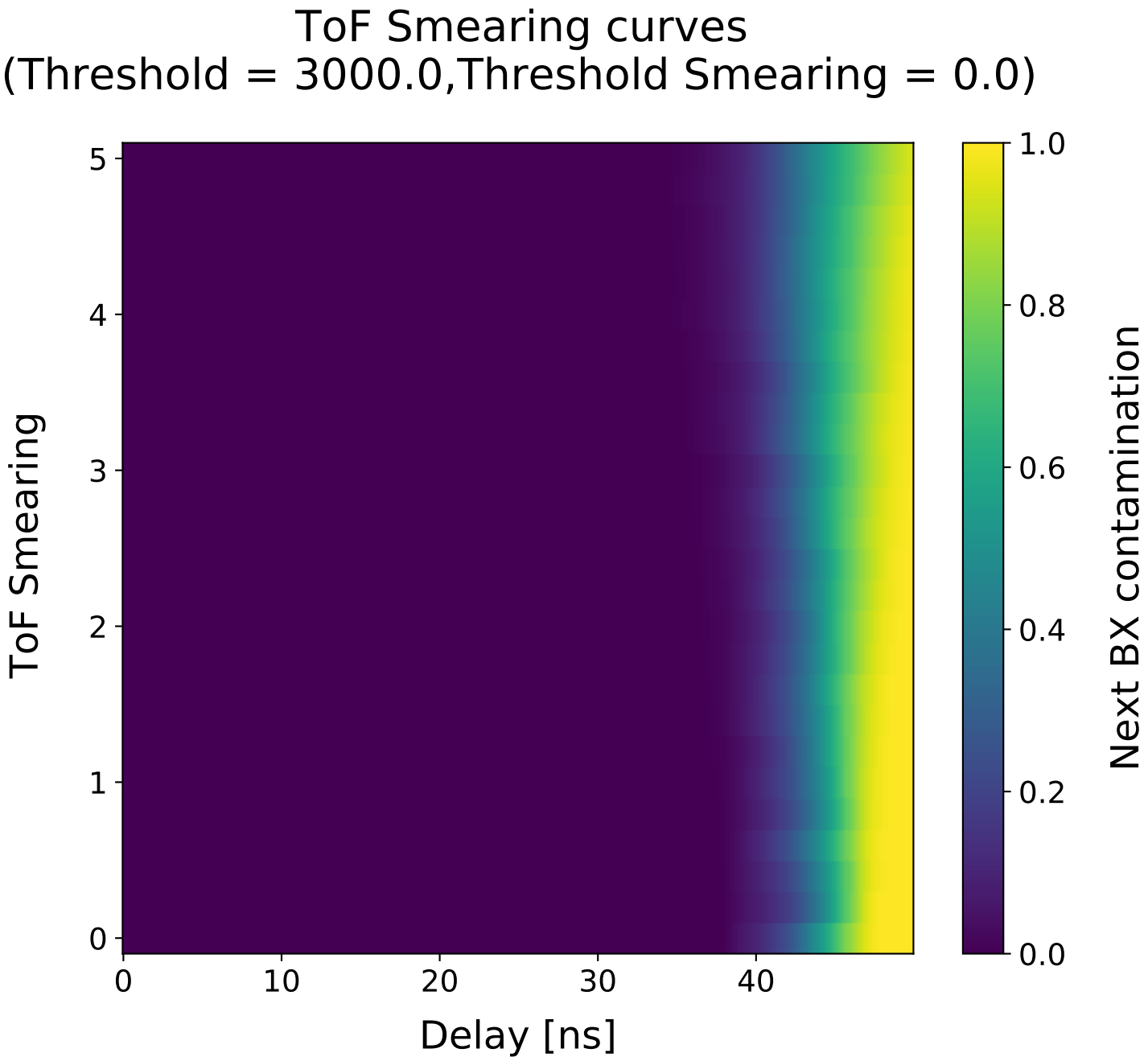

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

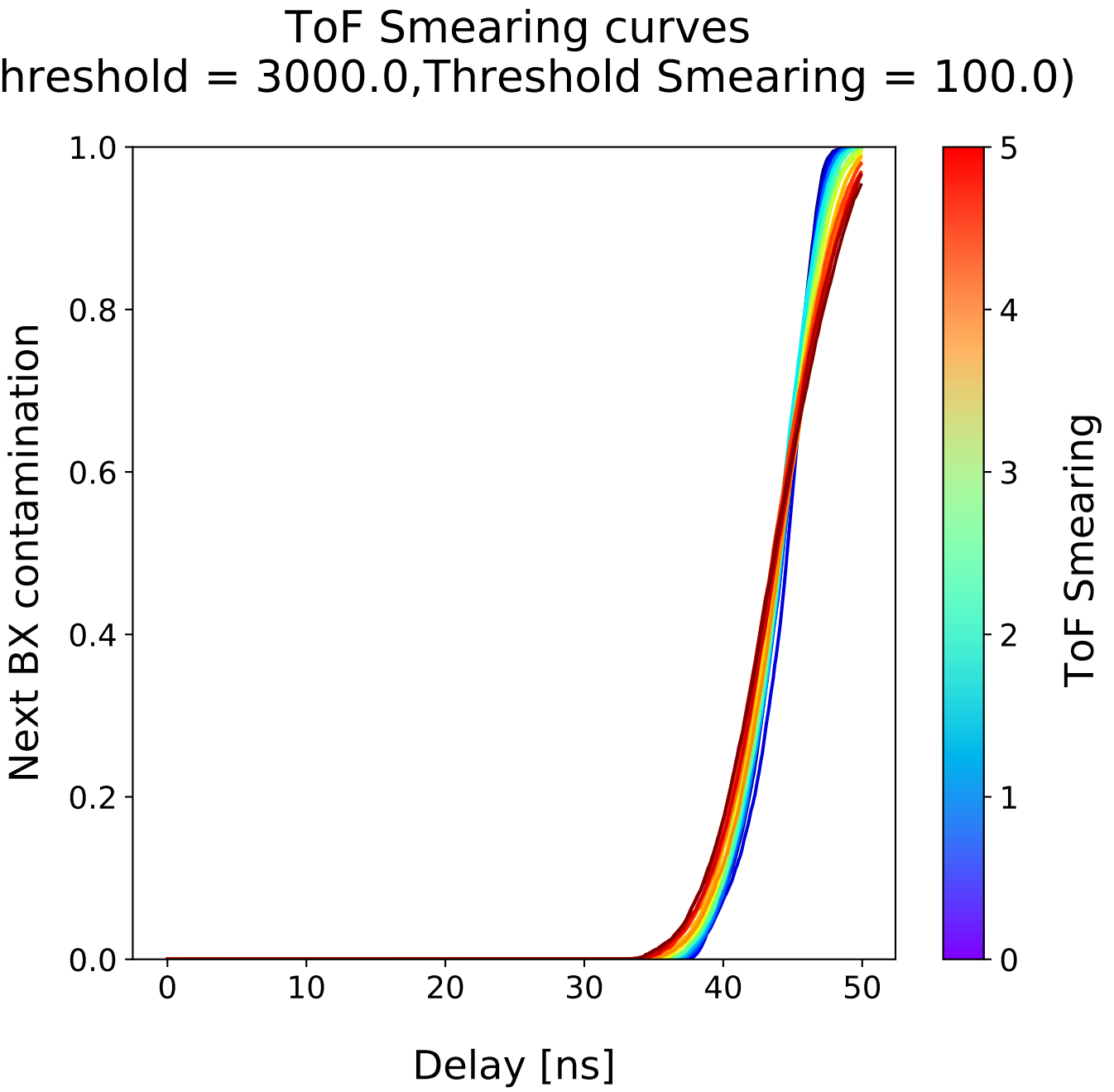

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

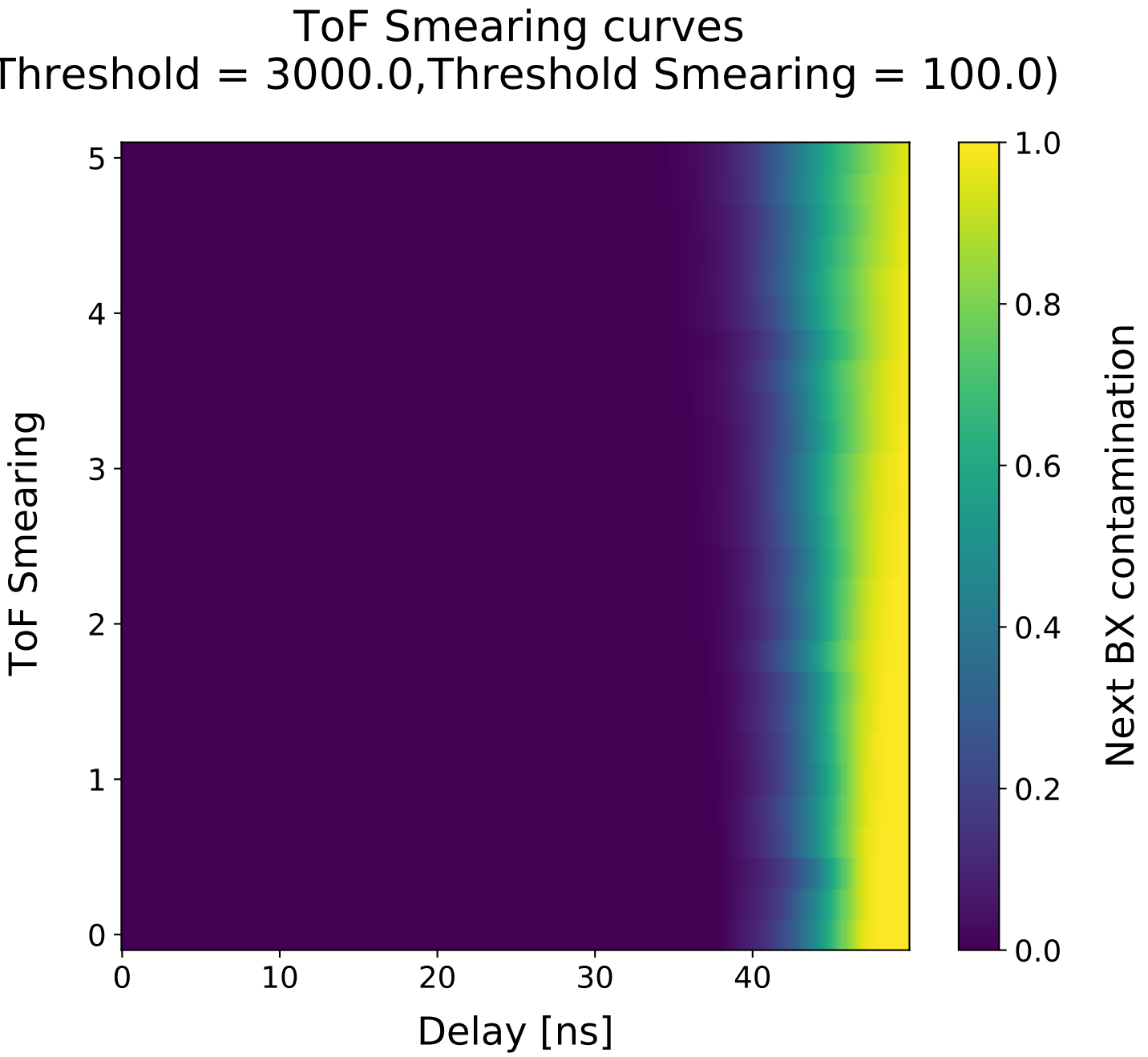

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

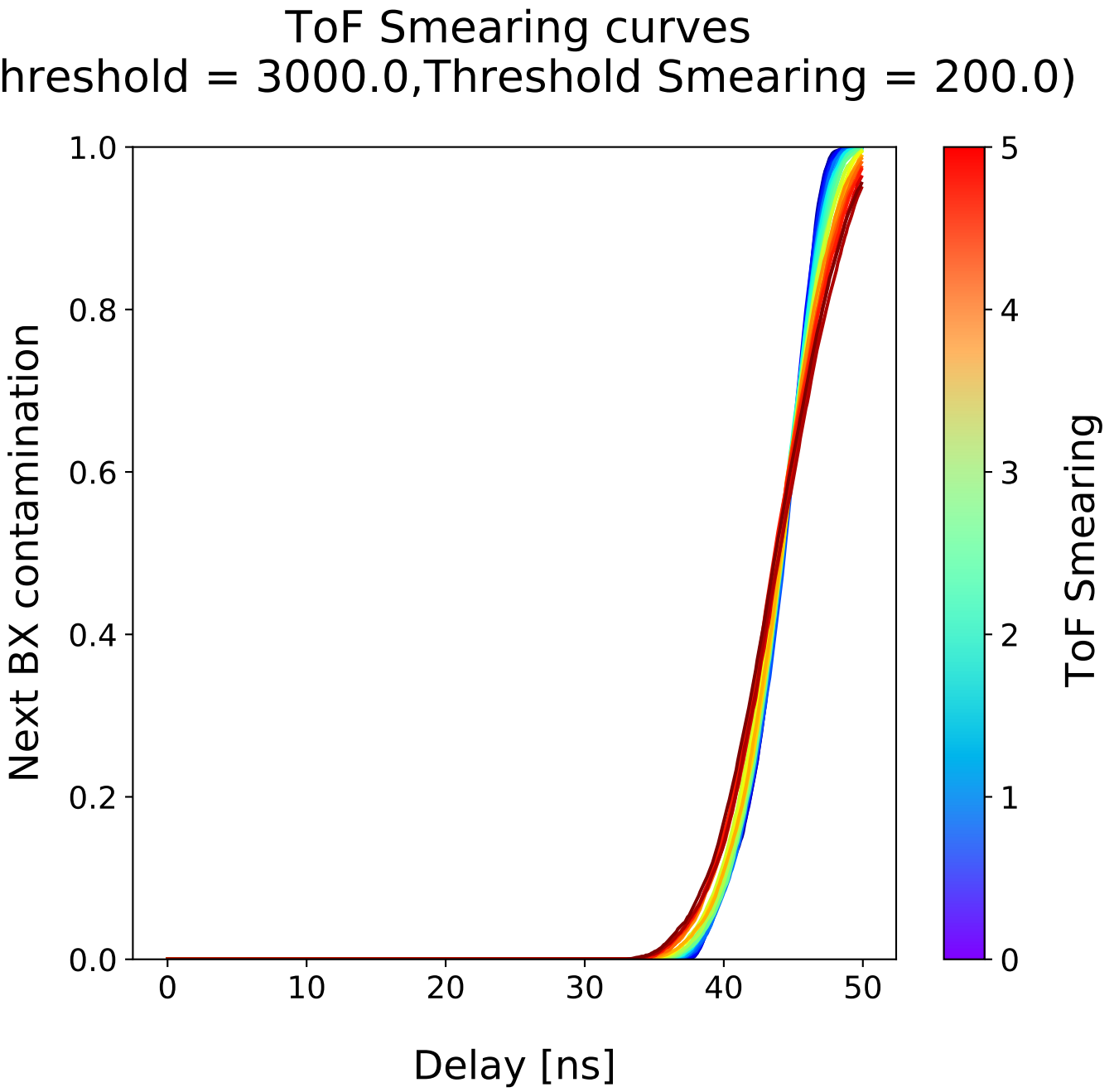

ToF Smearing curves
(Threshold = 2800.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

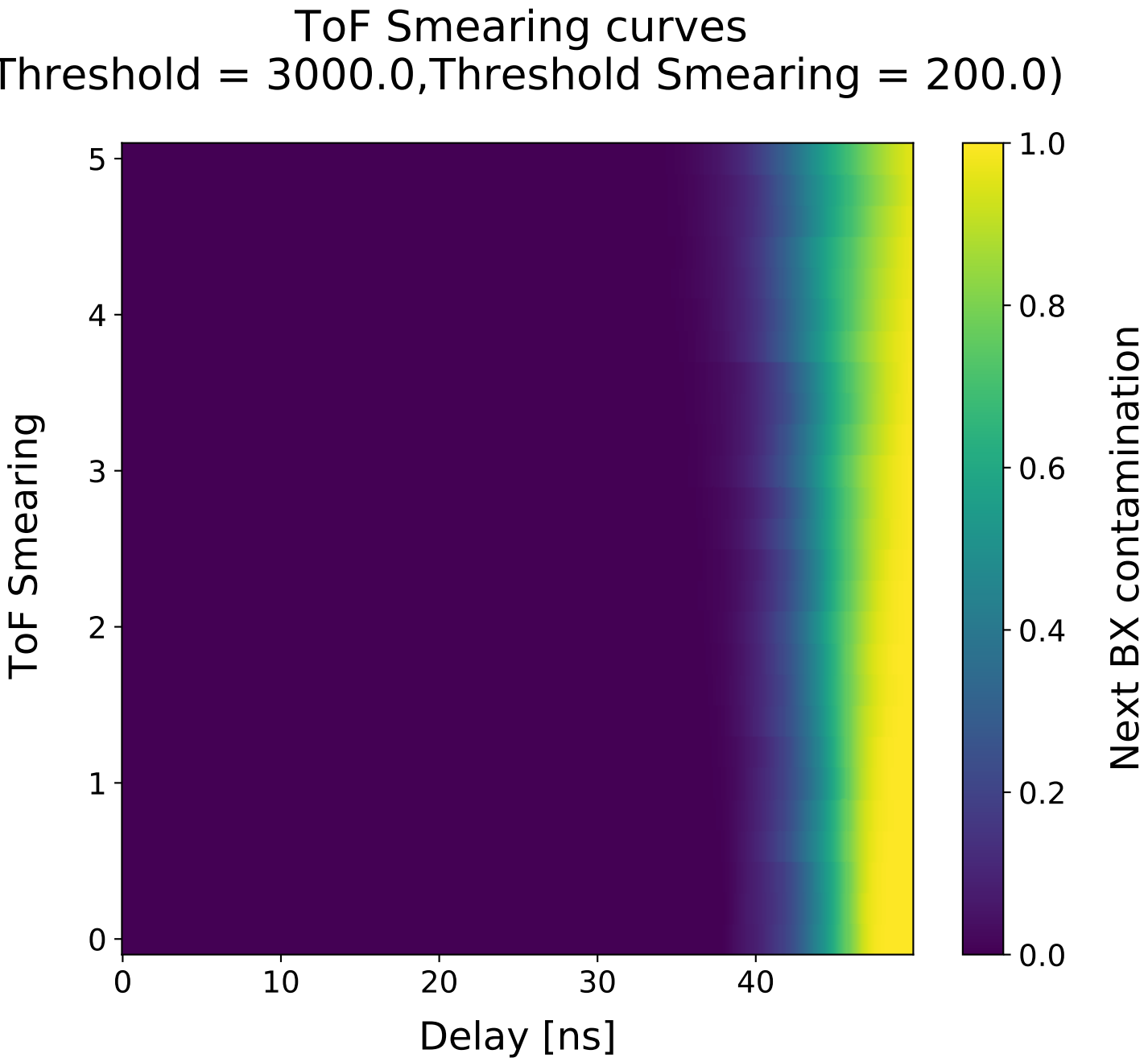

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
5
4
3
2
1
0

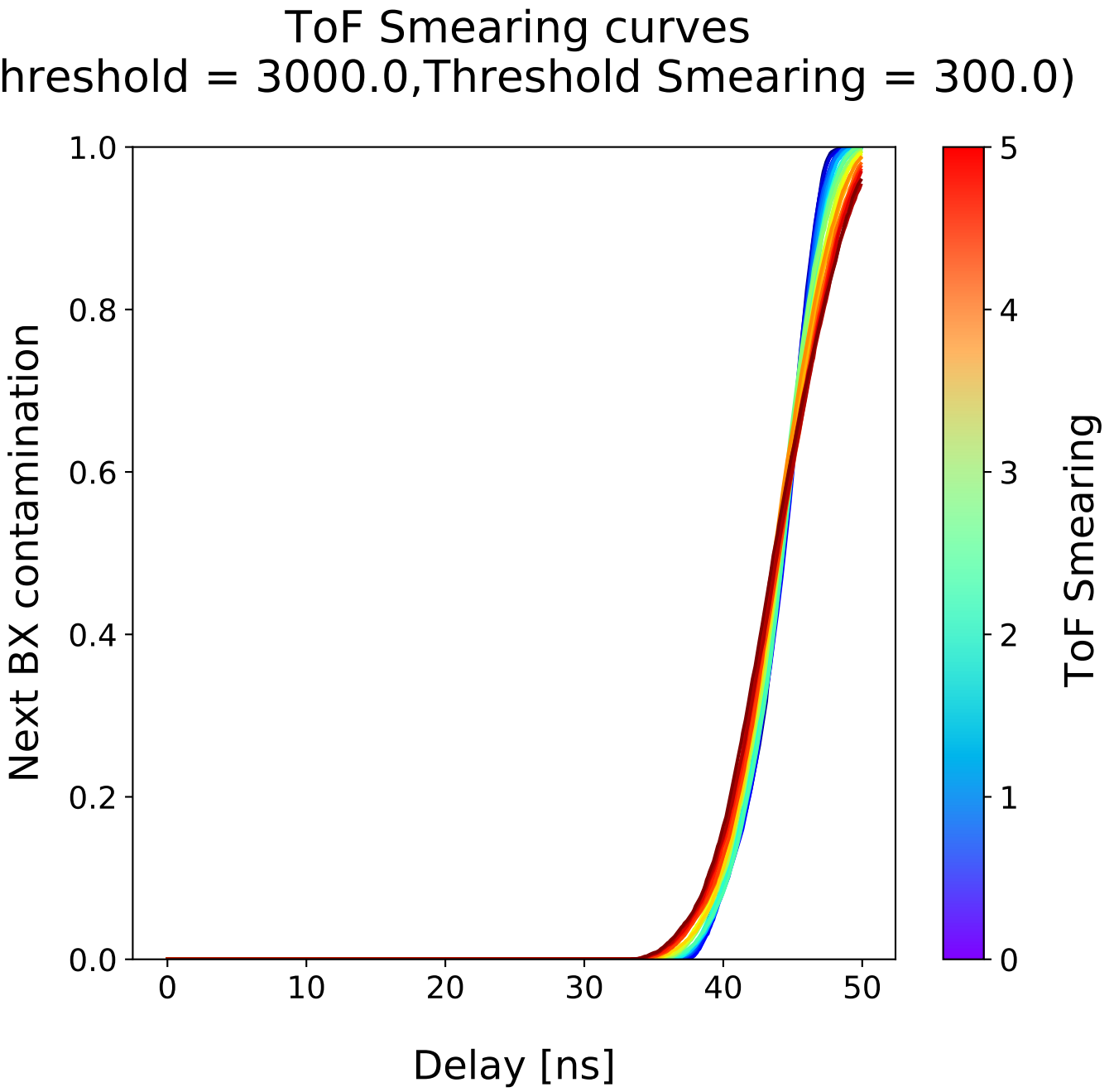

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

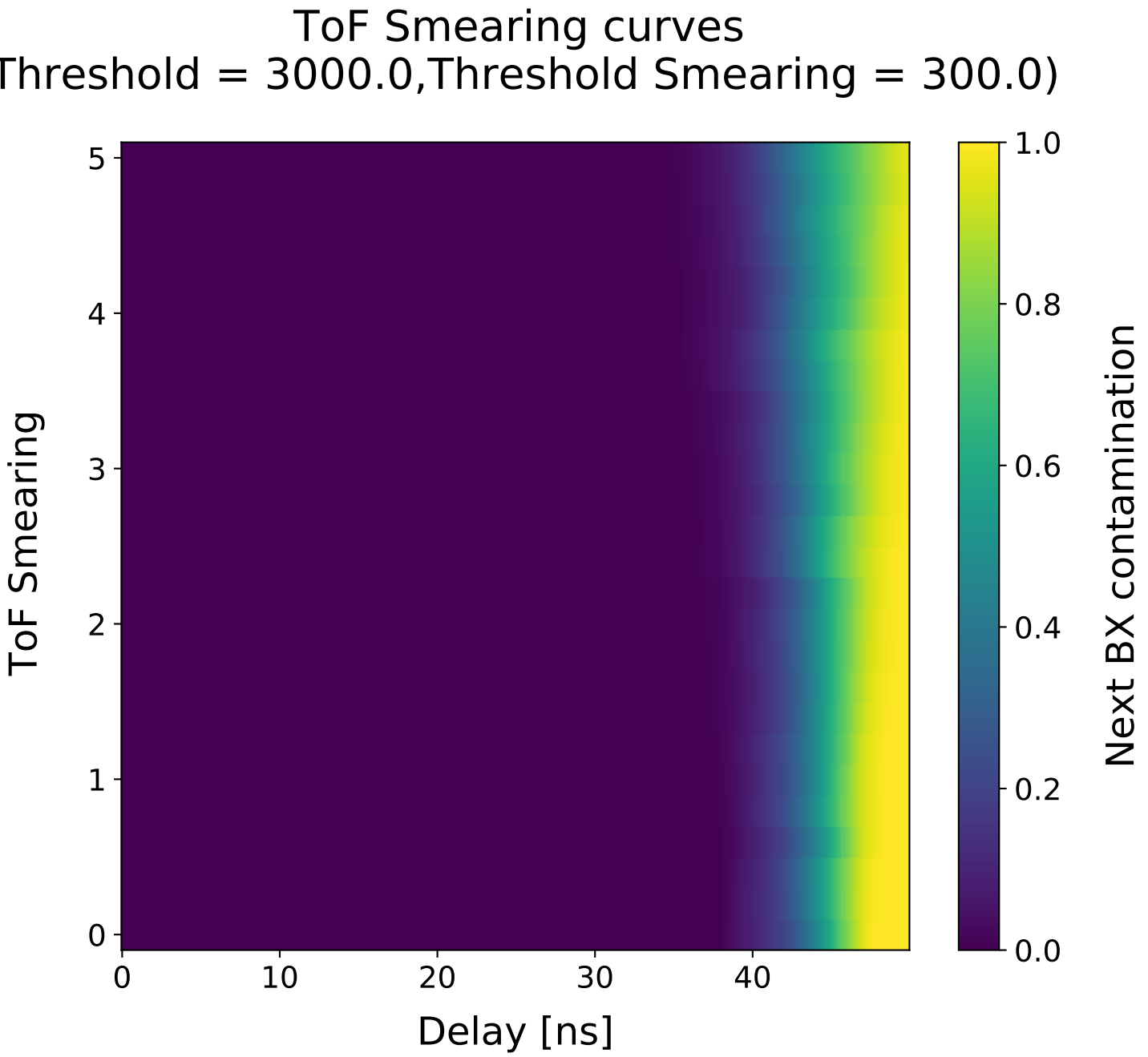

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

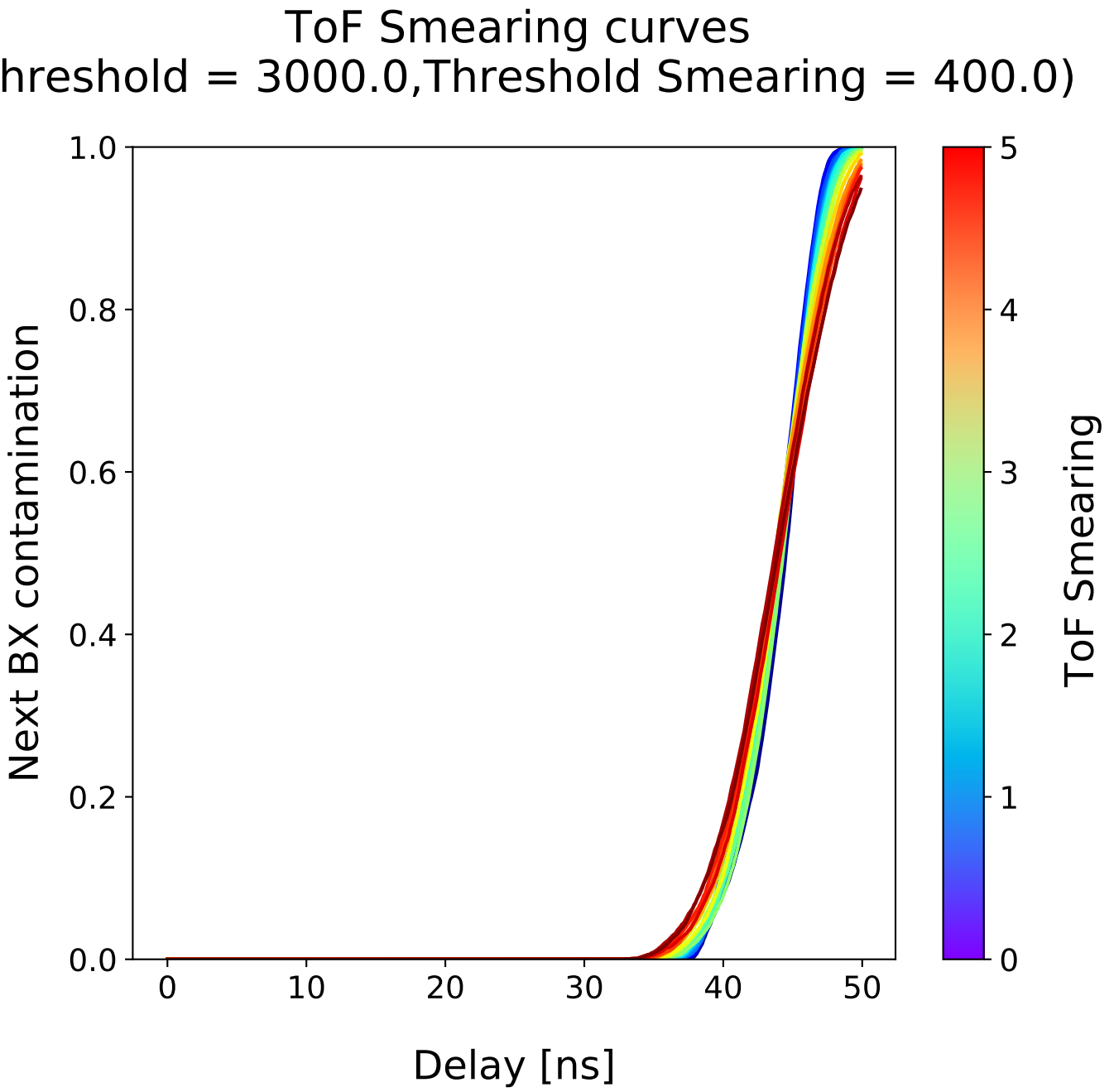

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

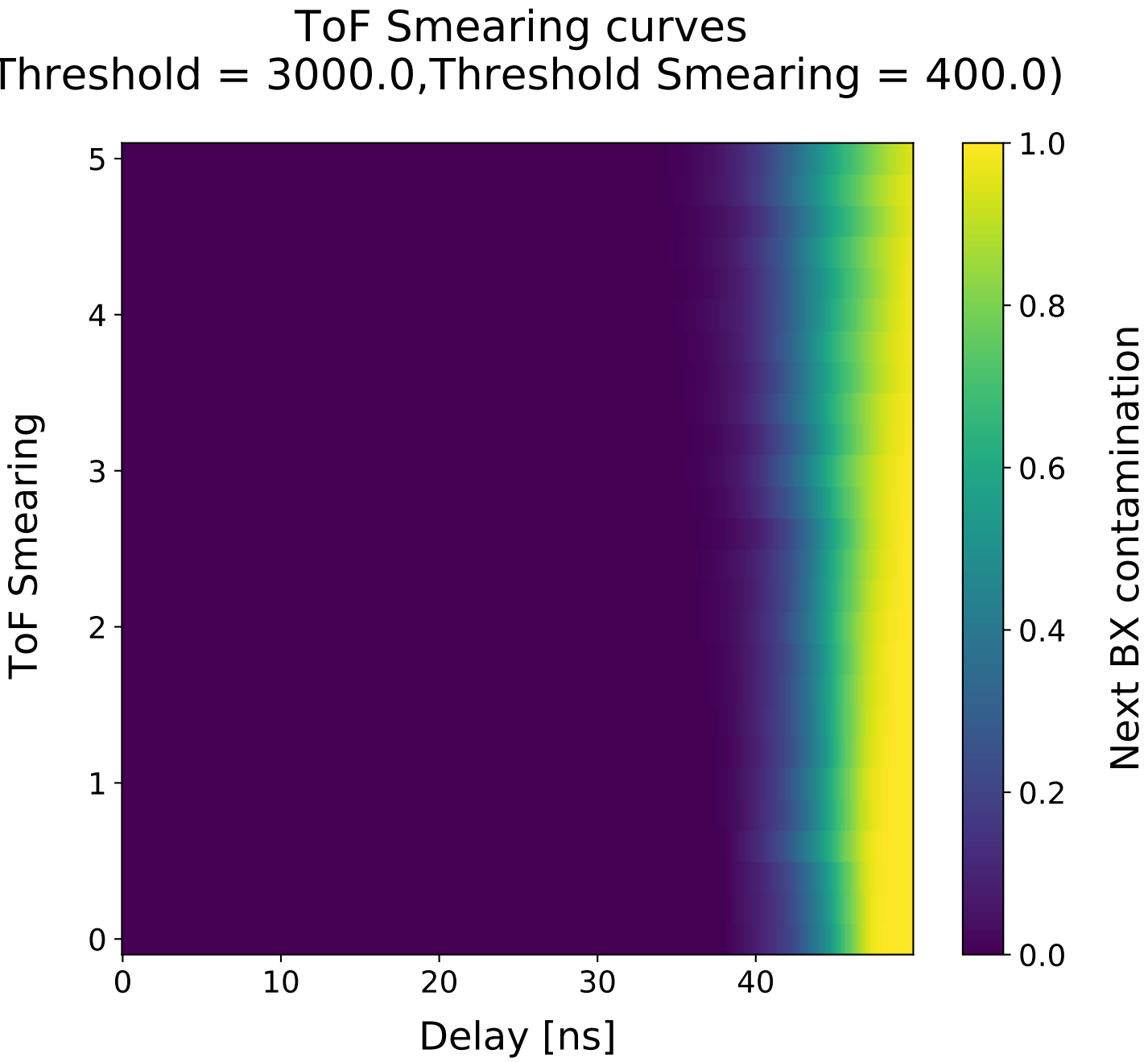

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

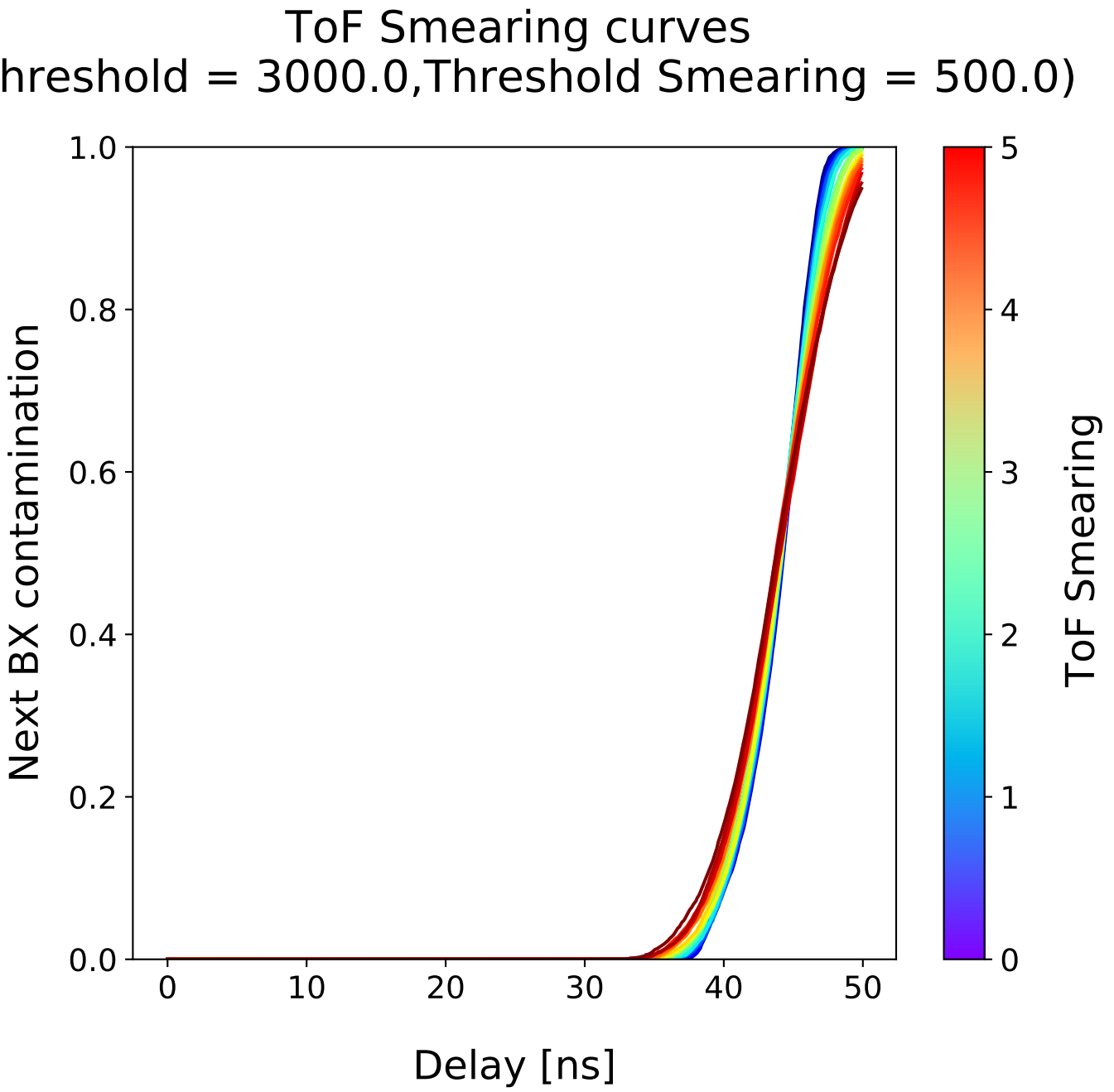

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

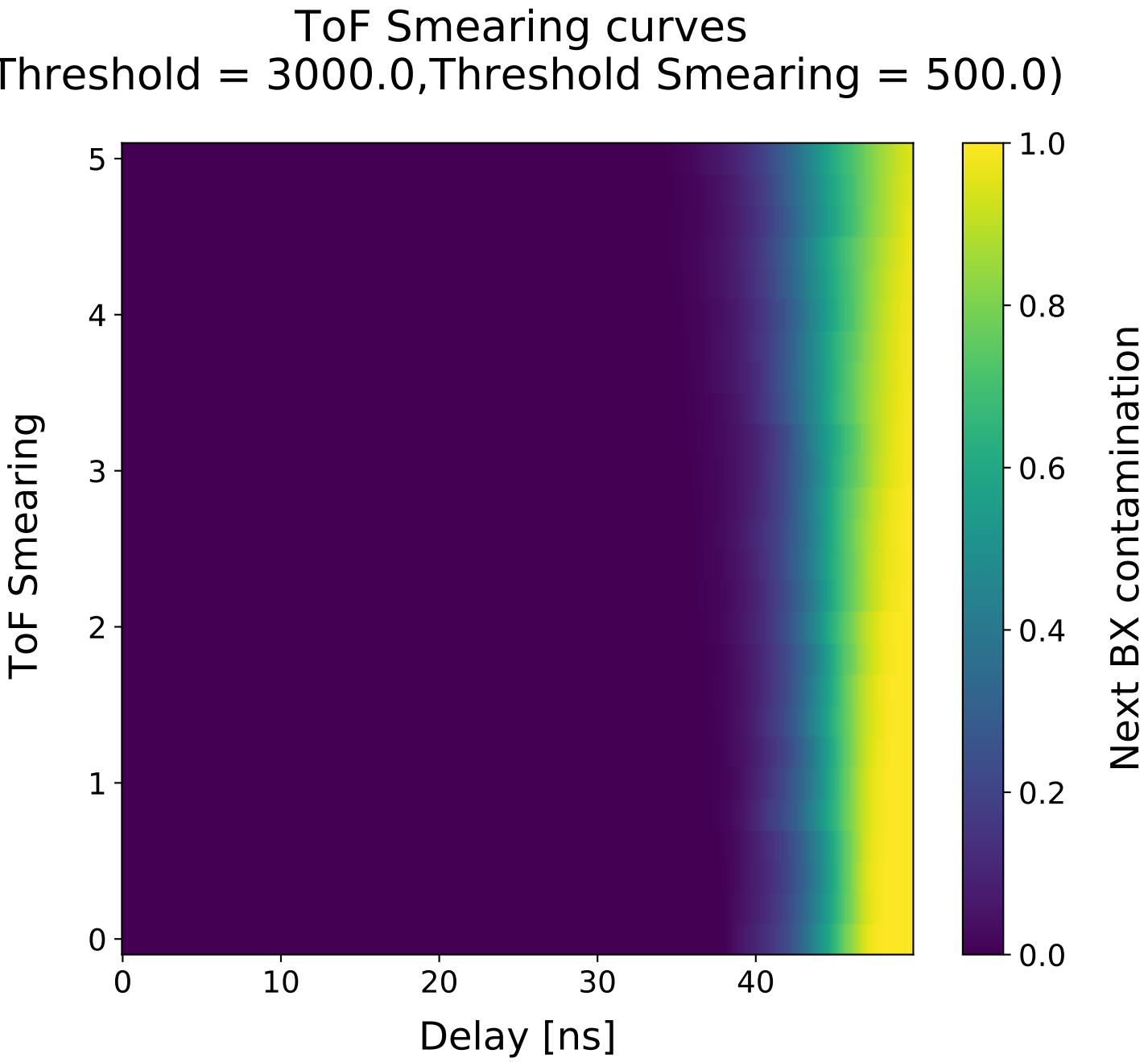

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

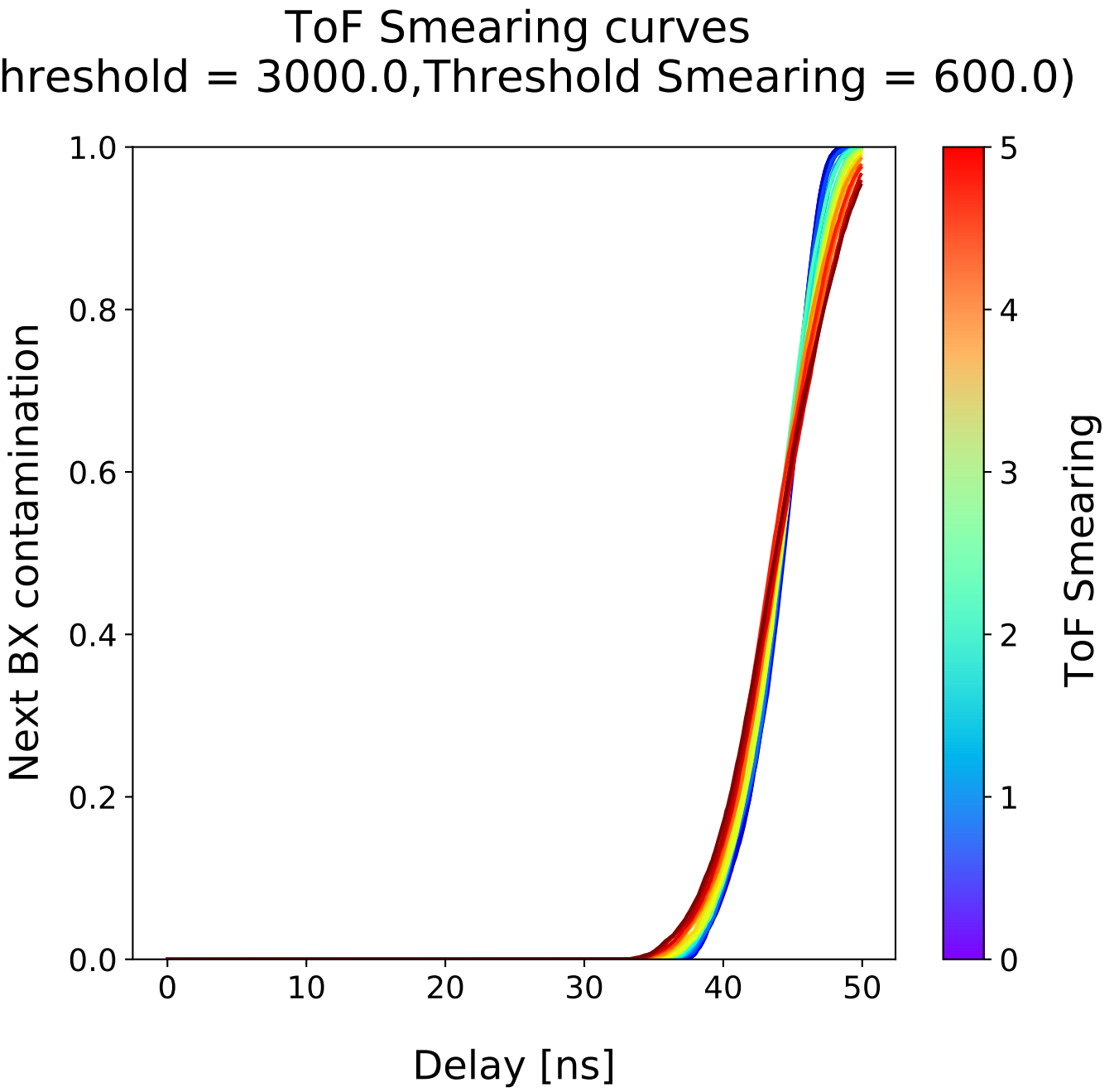

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

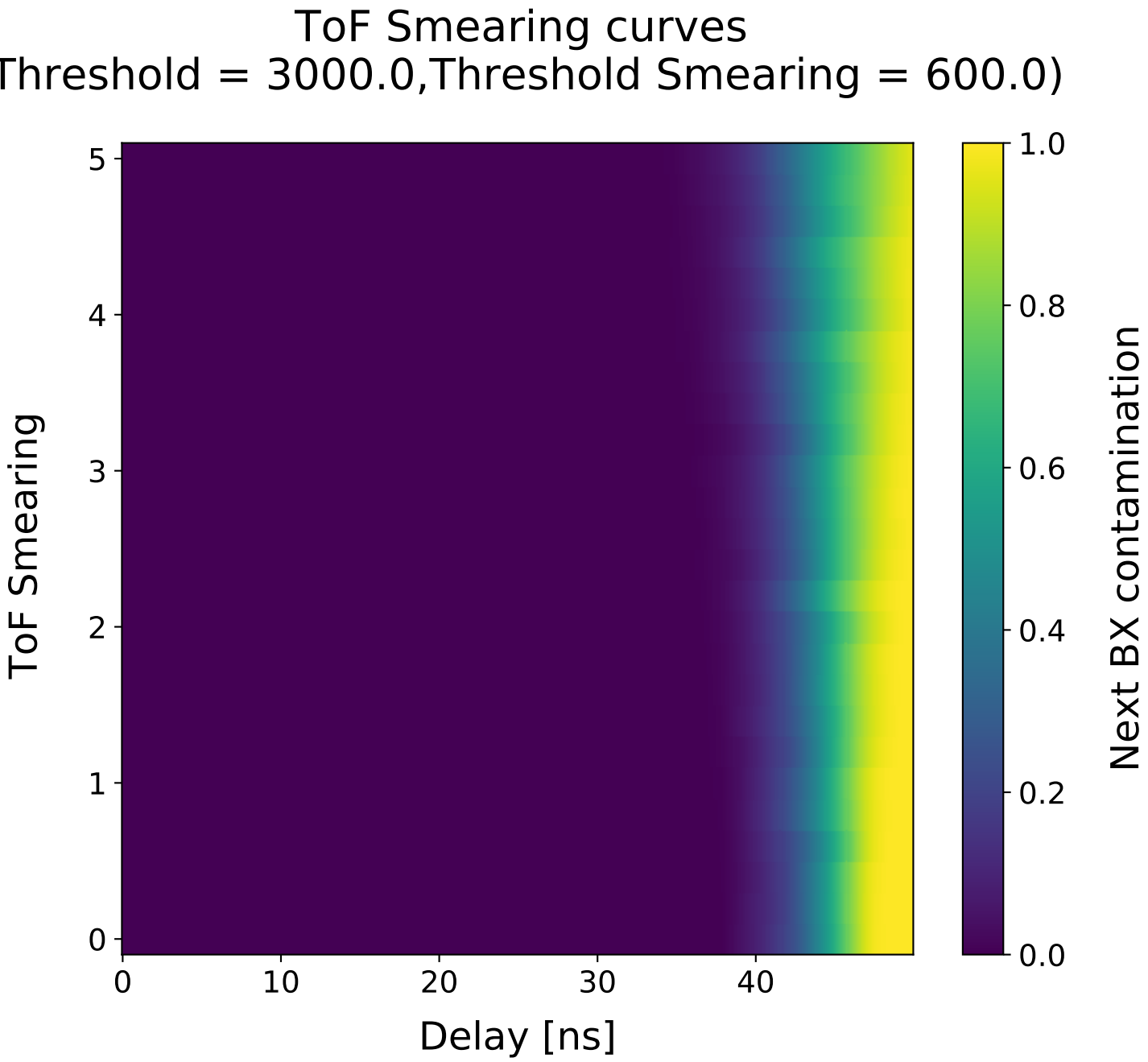

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

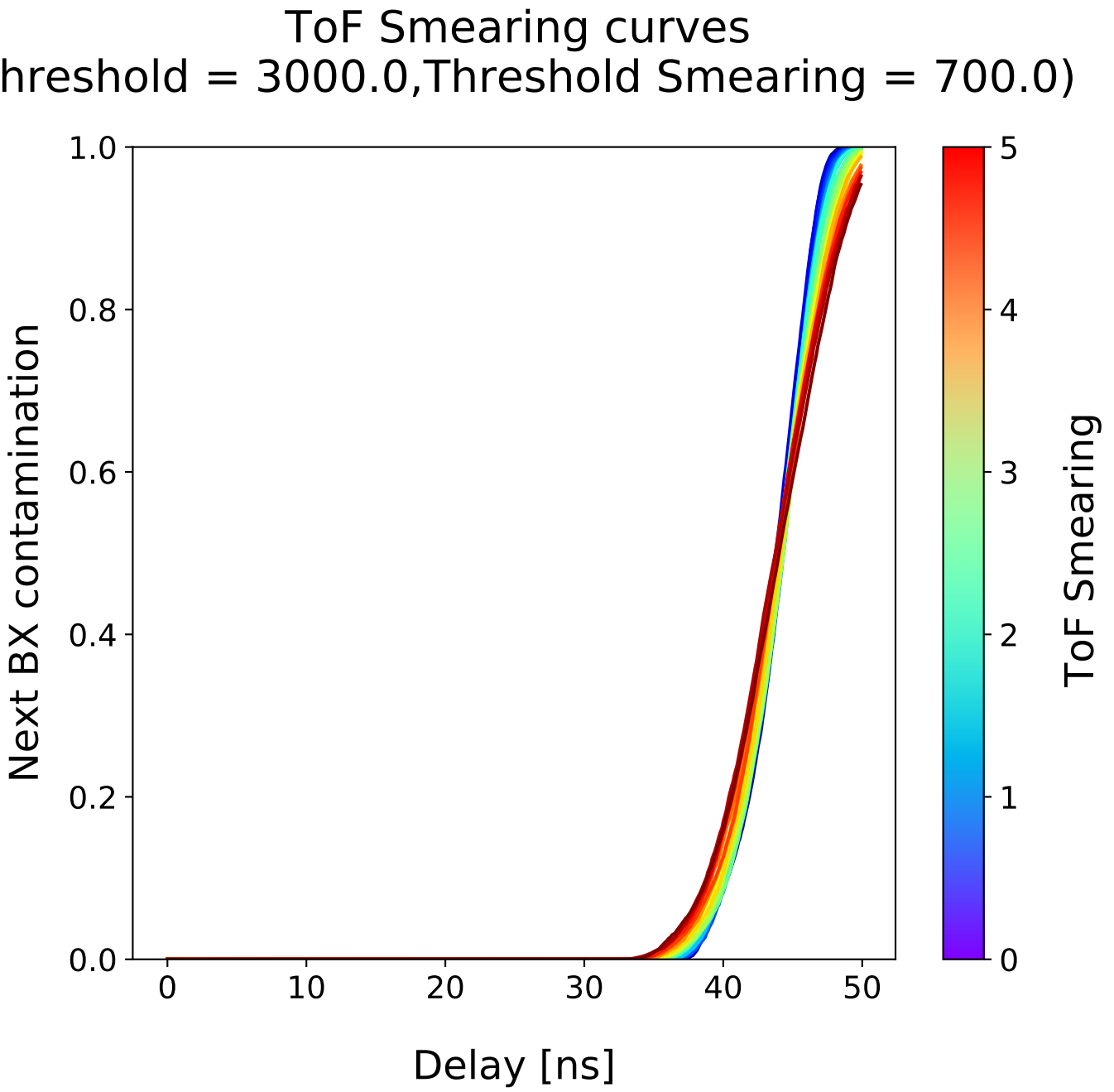

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

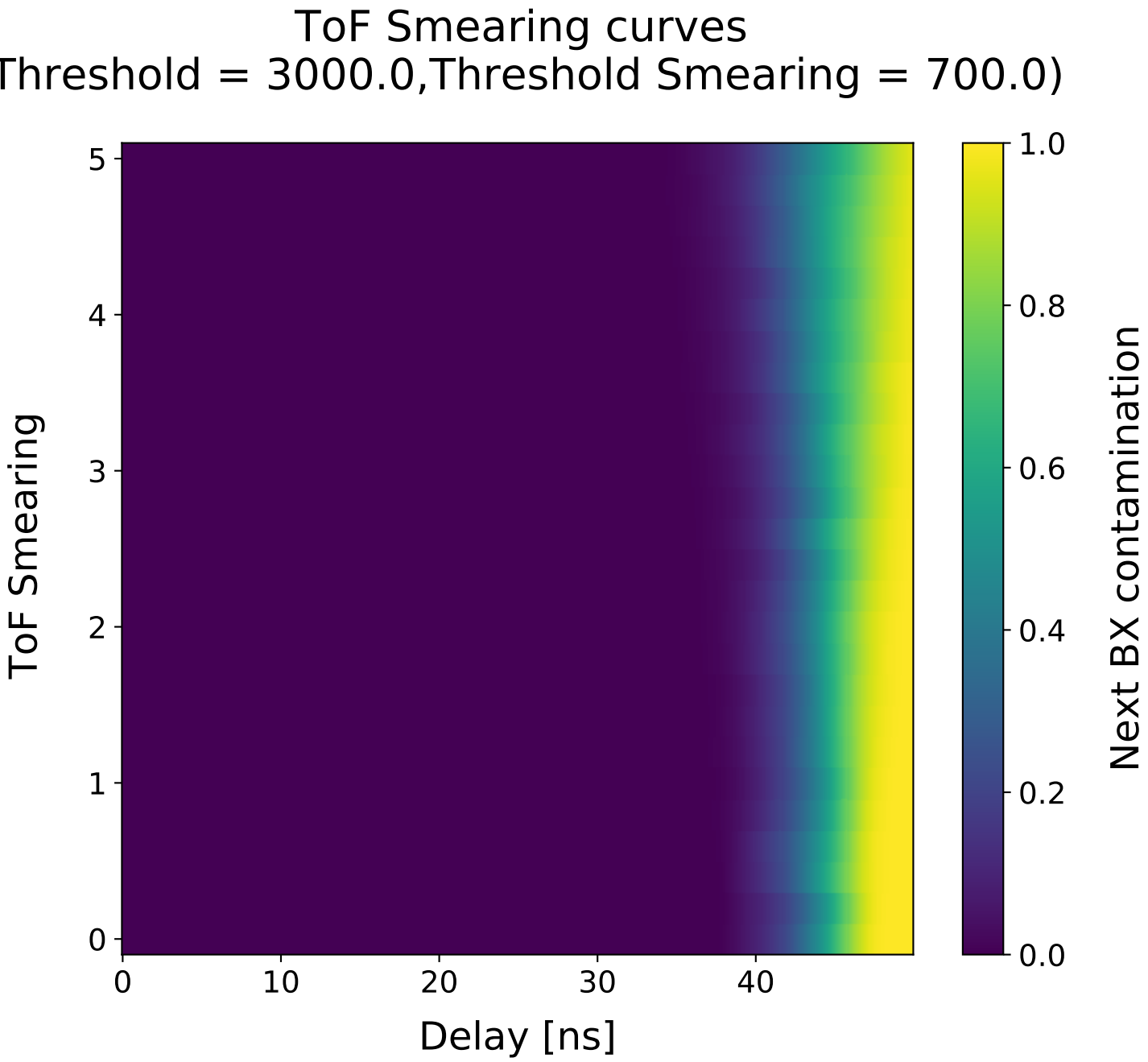

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

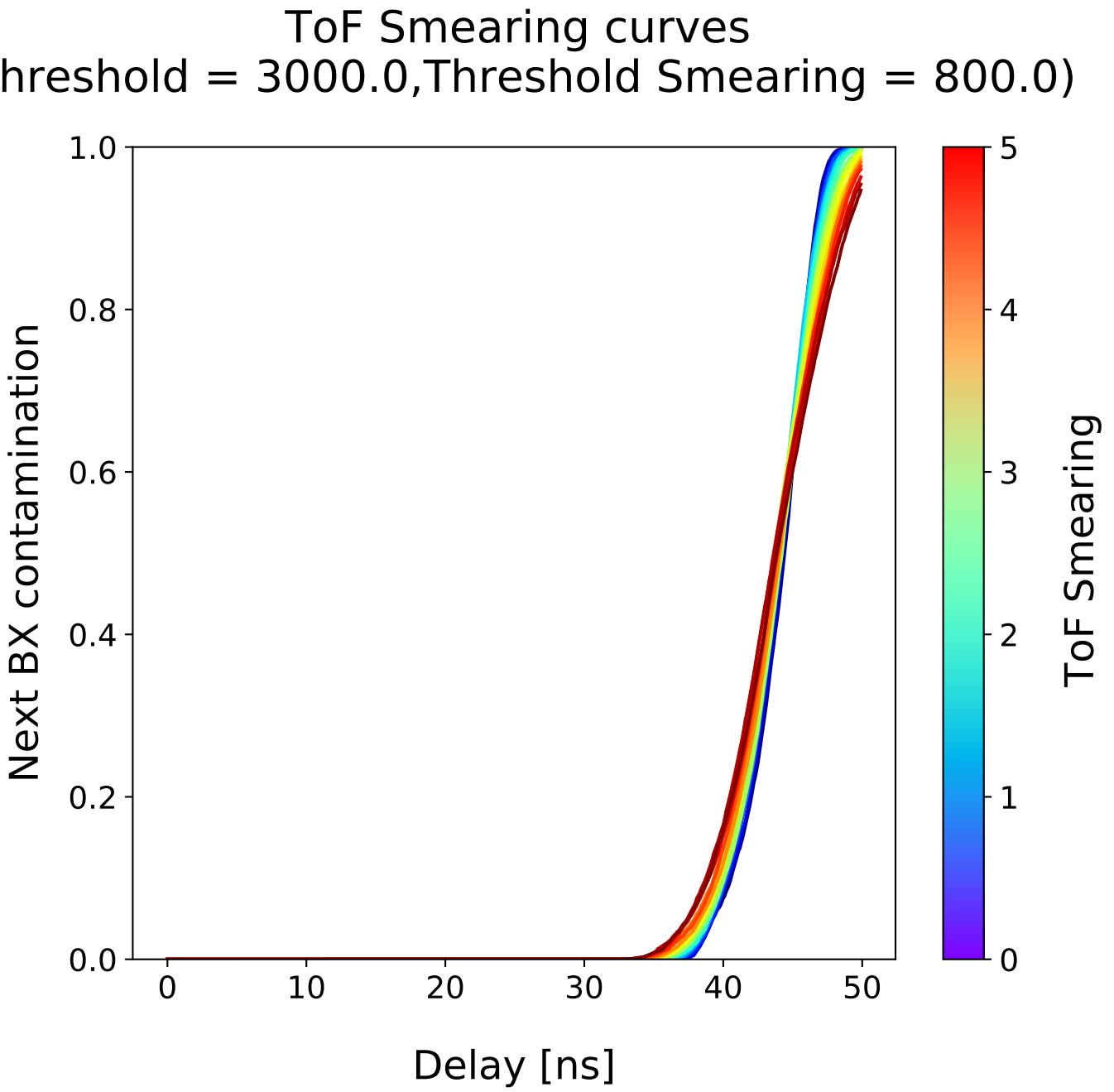

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

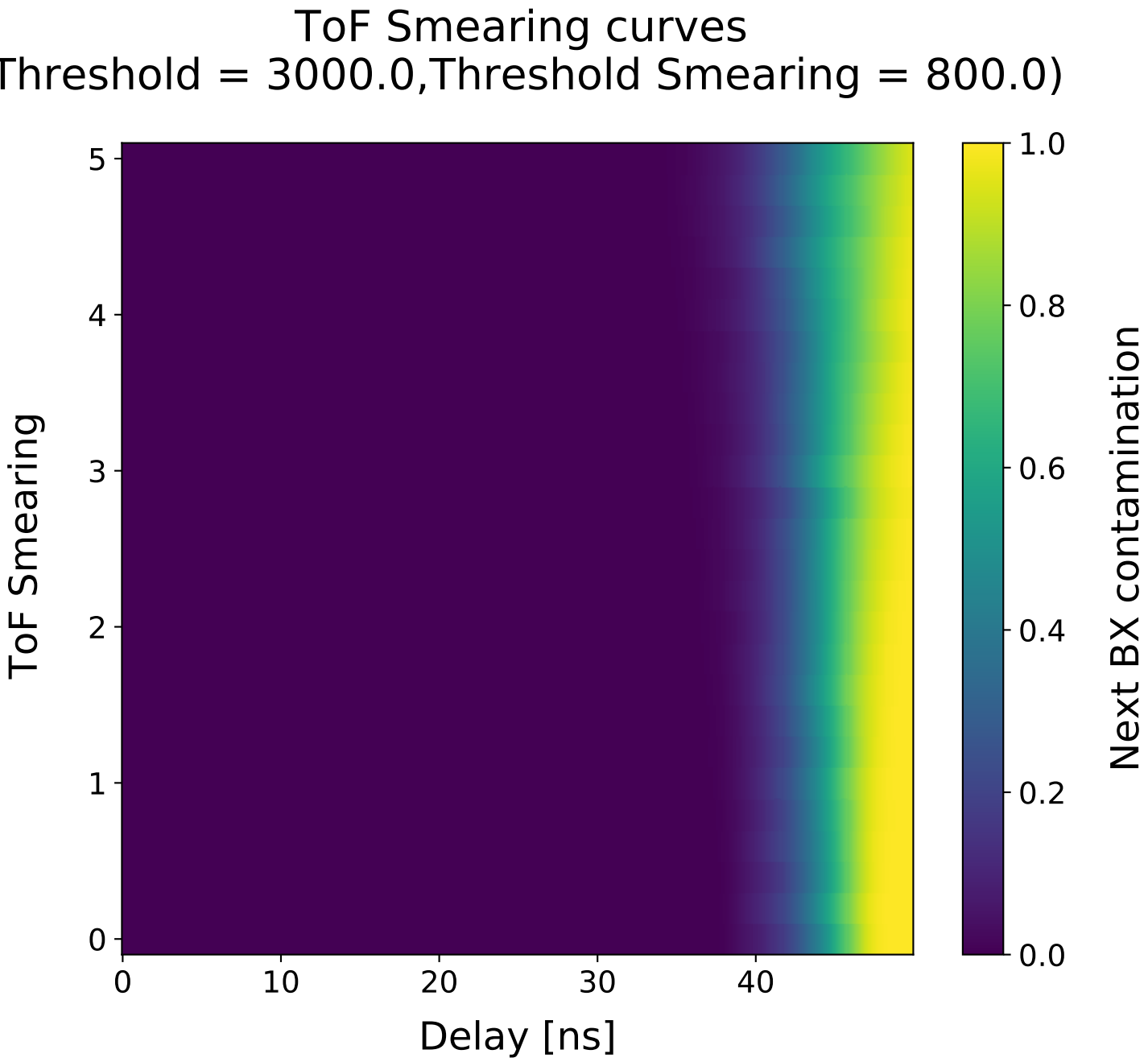

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

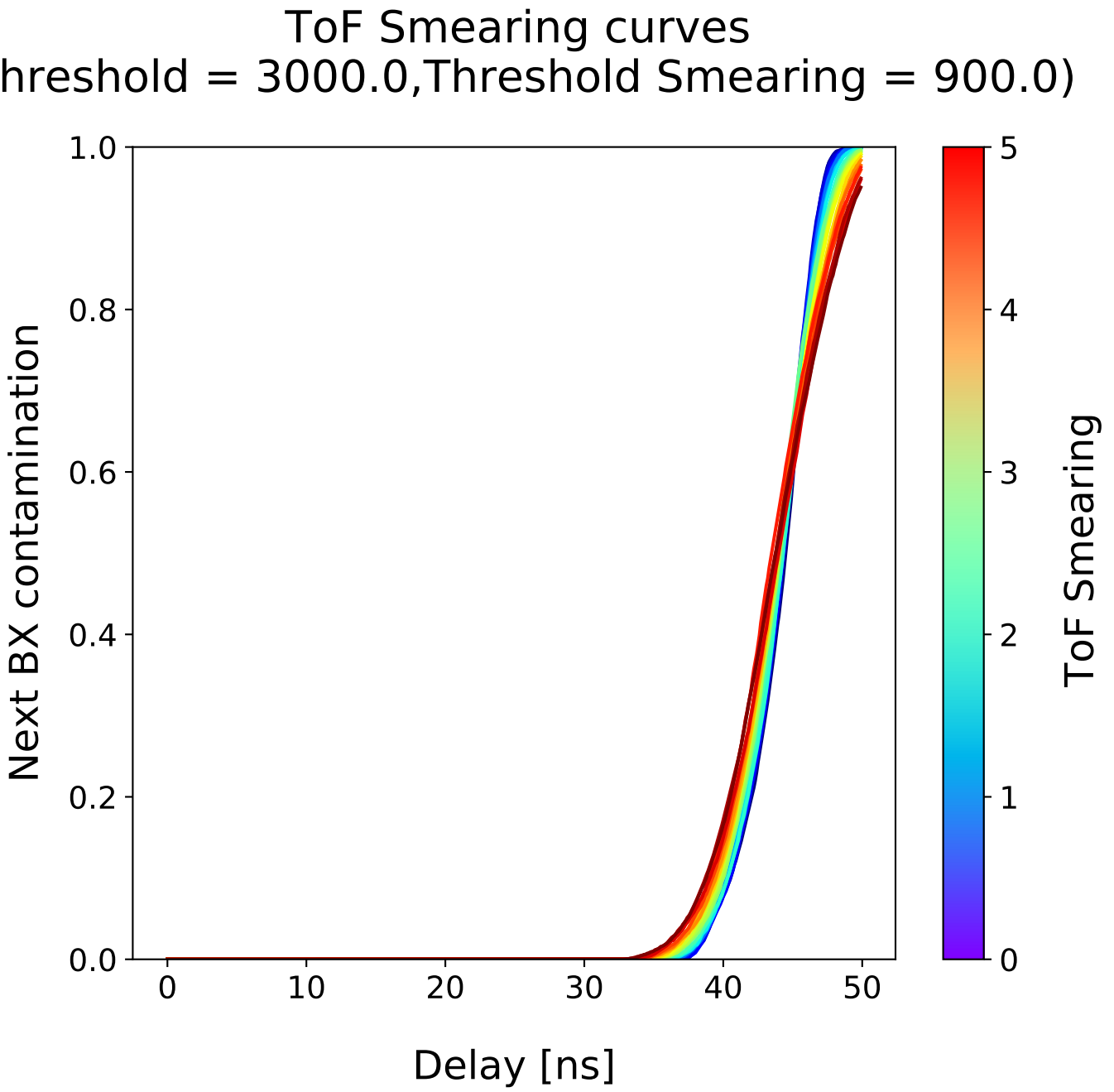

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

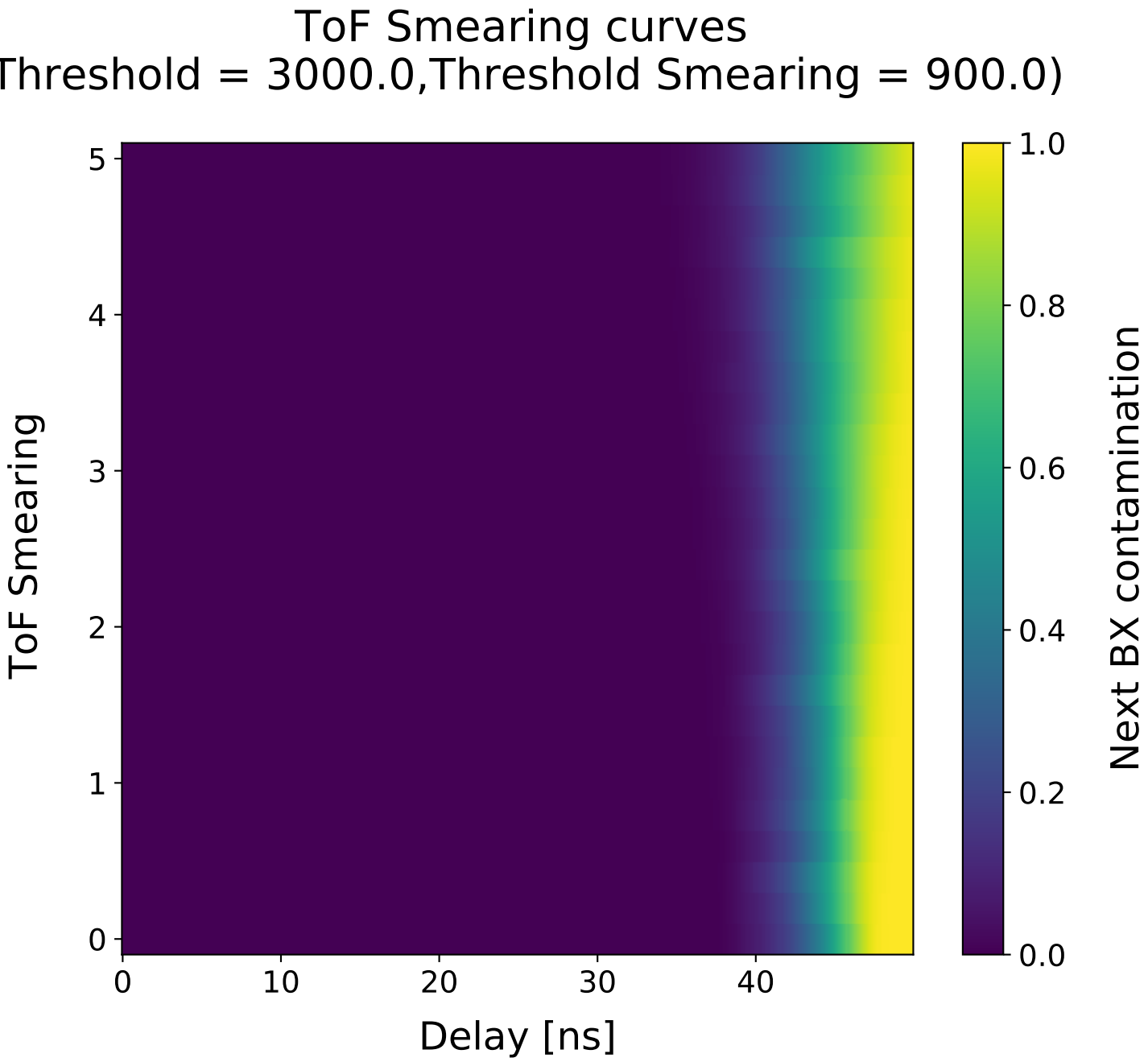

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

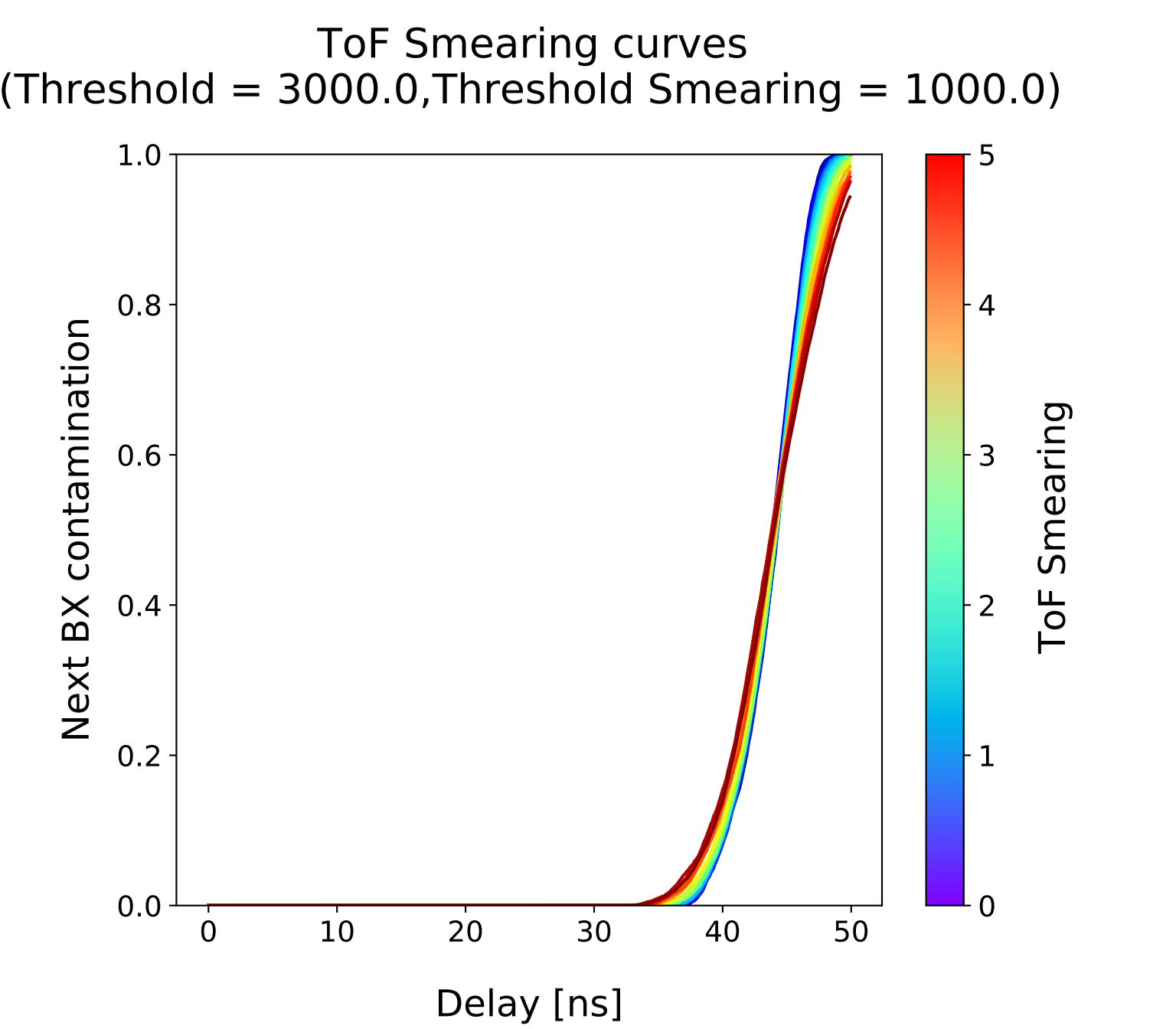

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

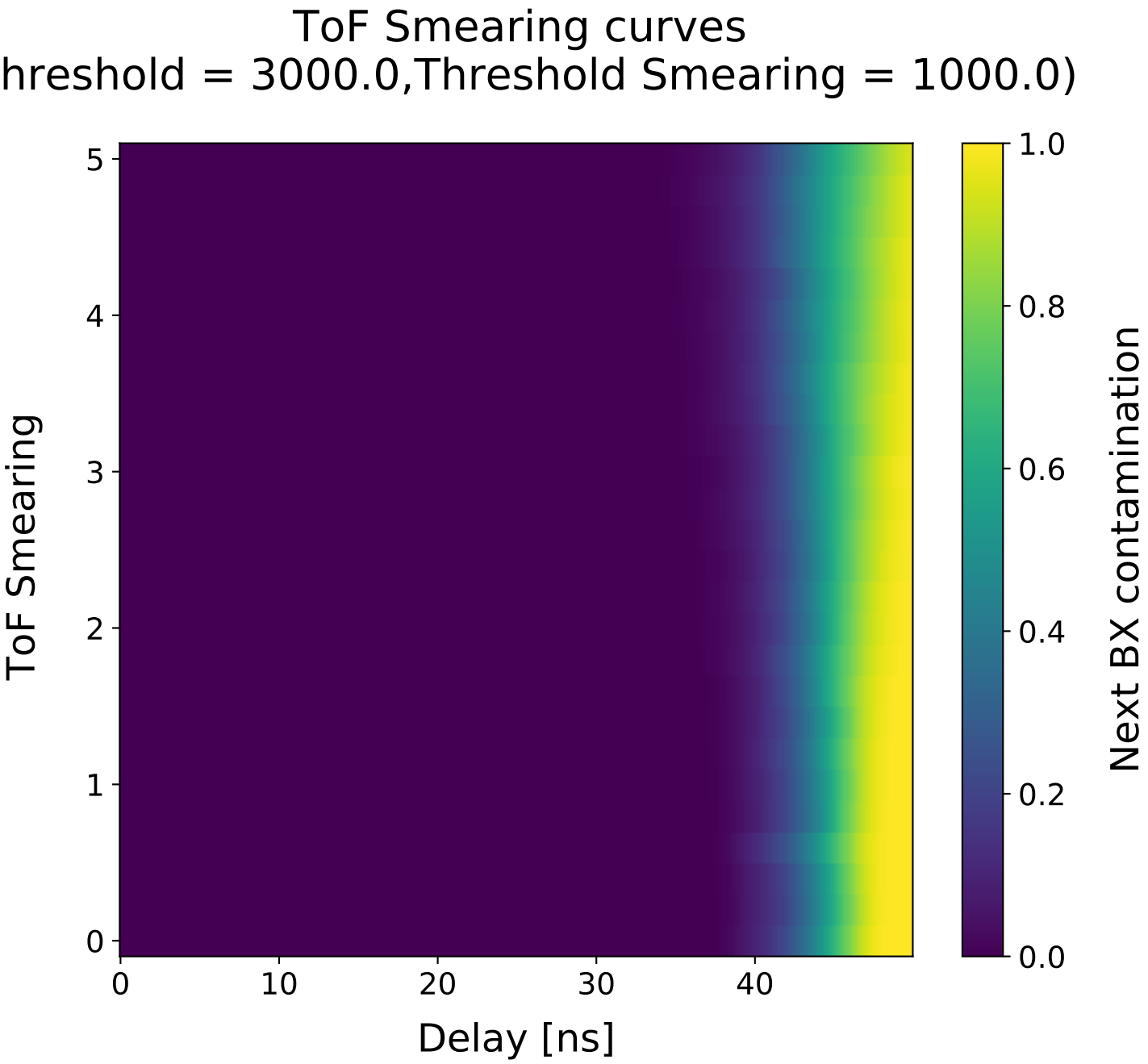

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

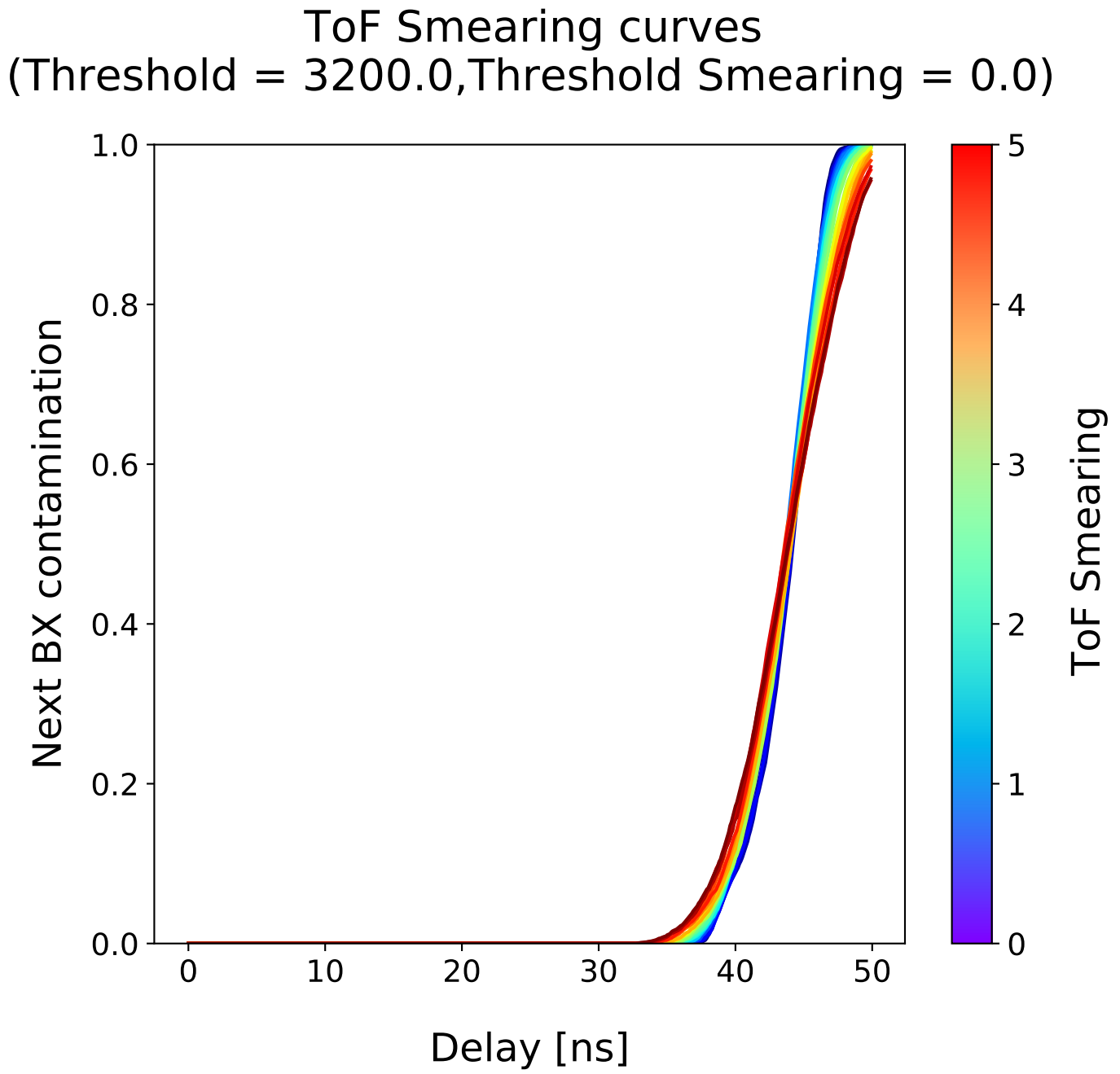

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

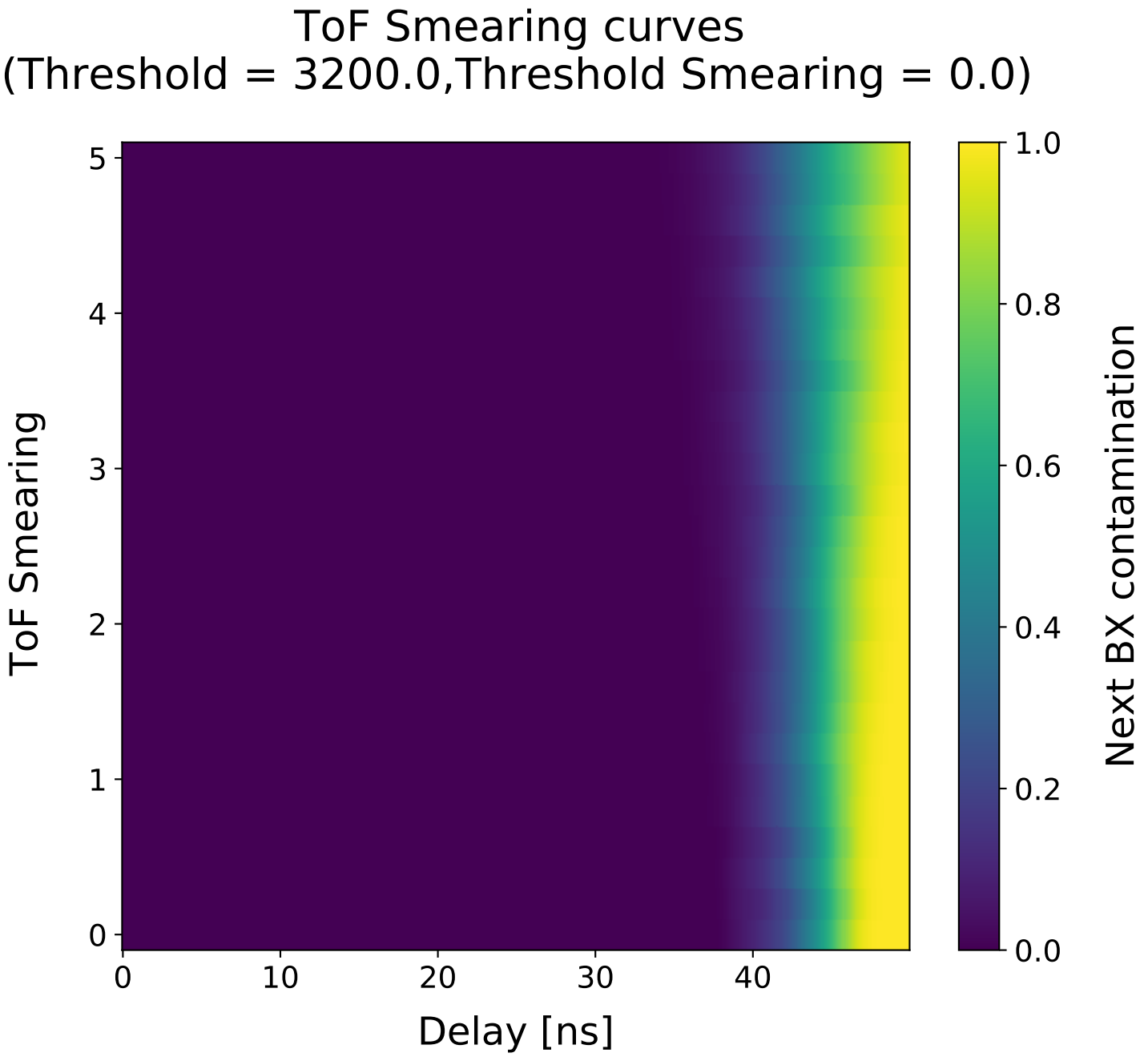

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

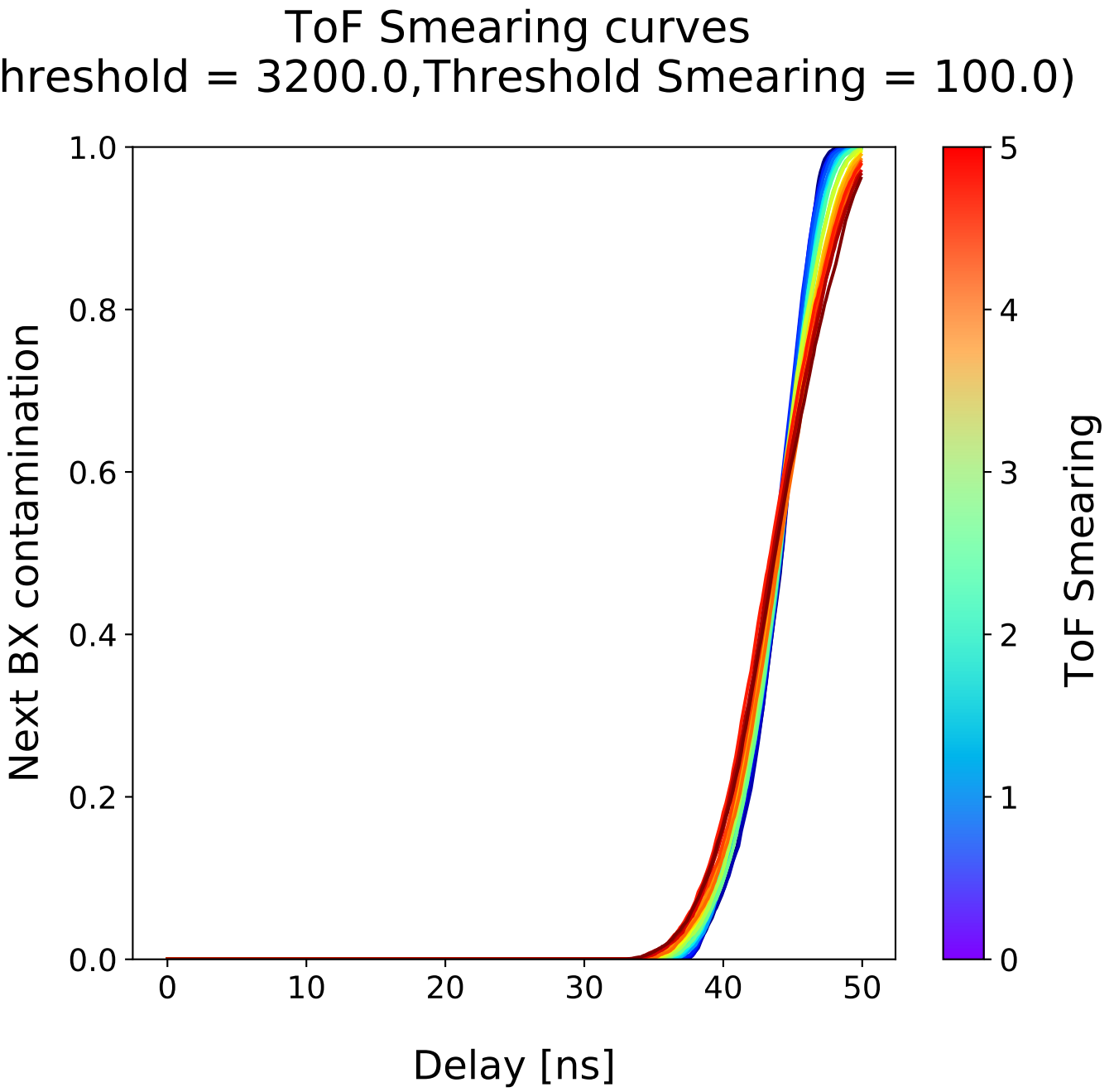

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

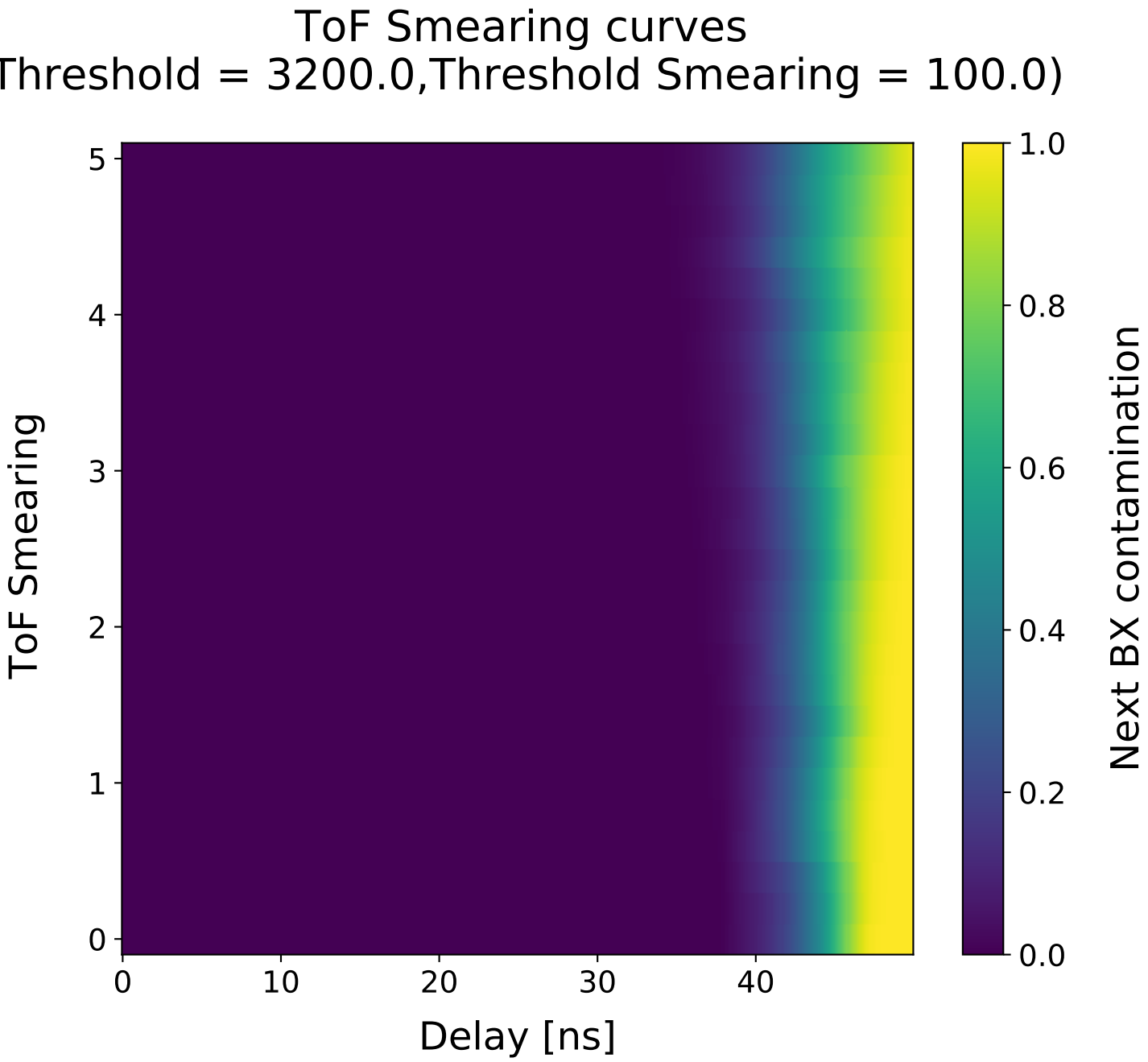

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

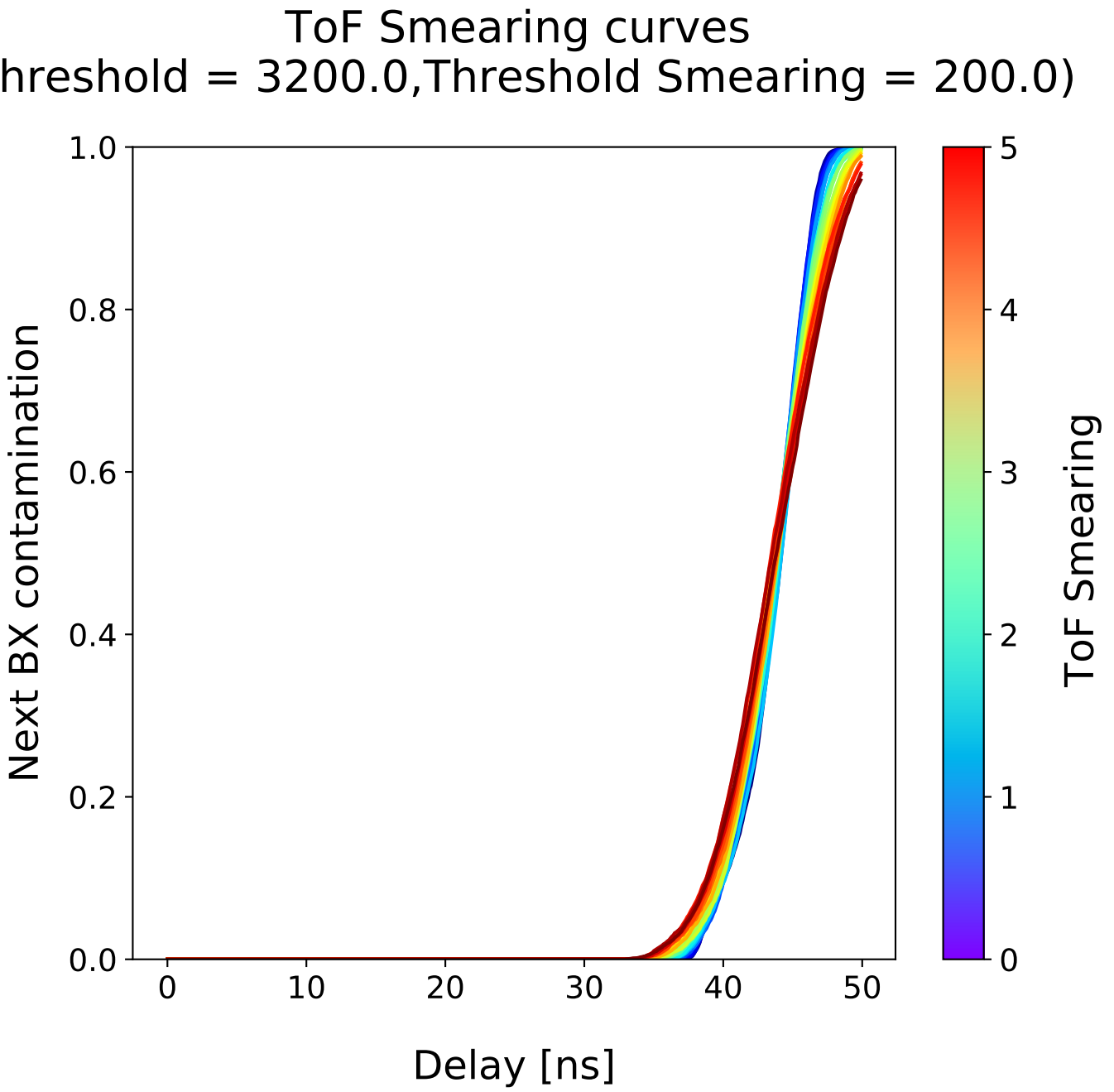

ToF Smearing curves
(Threshold = 3000.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

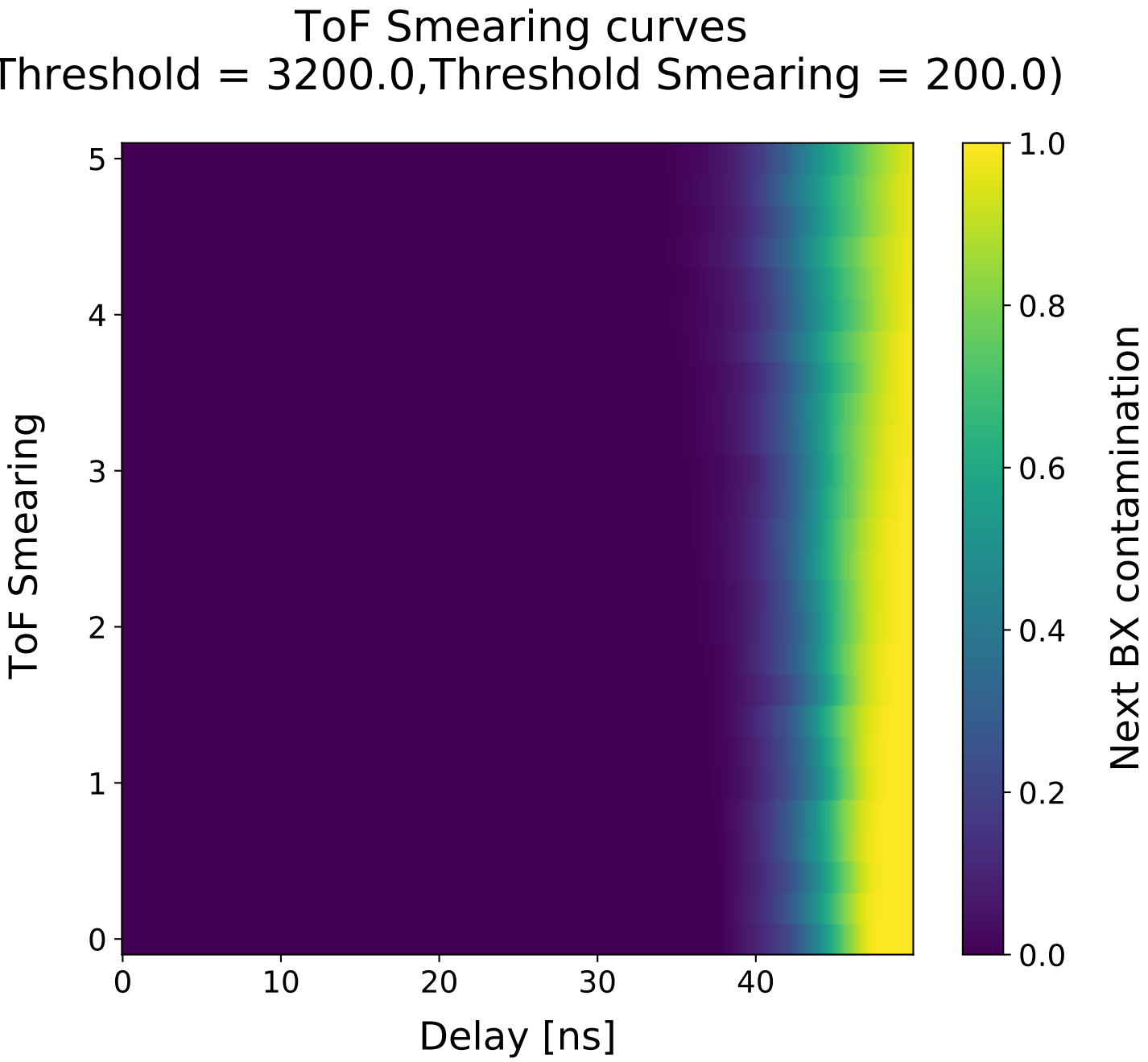

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
5
4
3
2
1
0

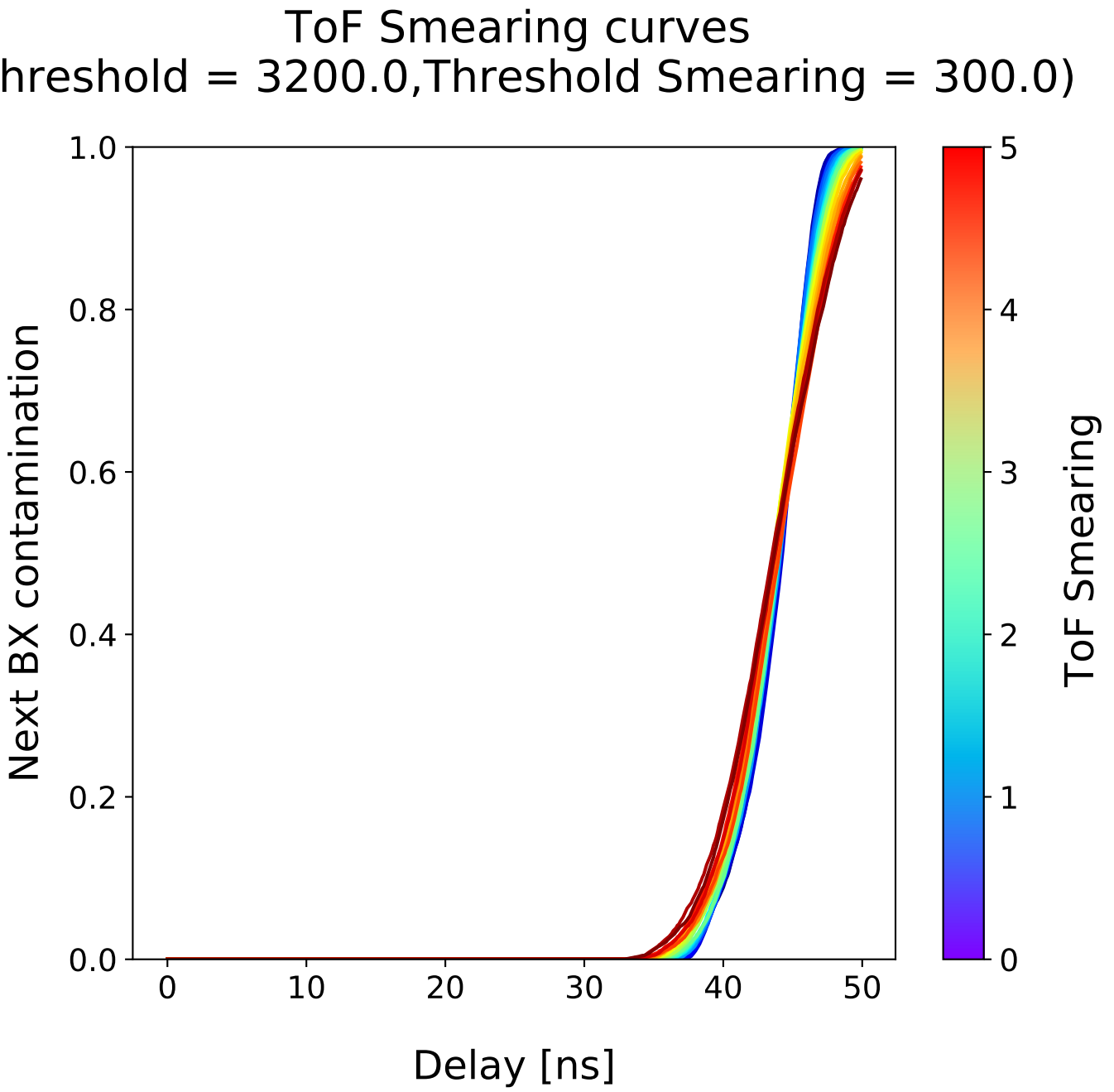

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

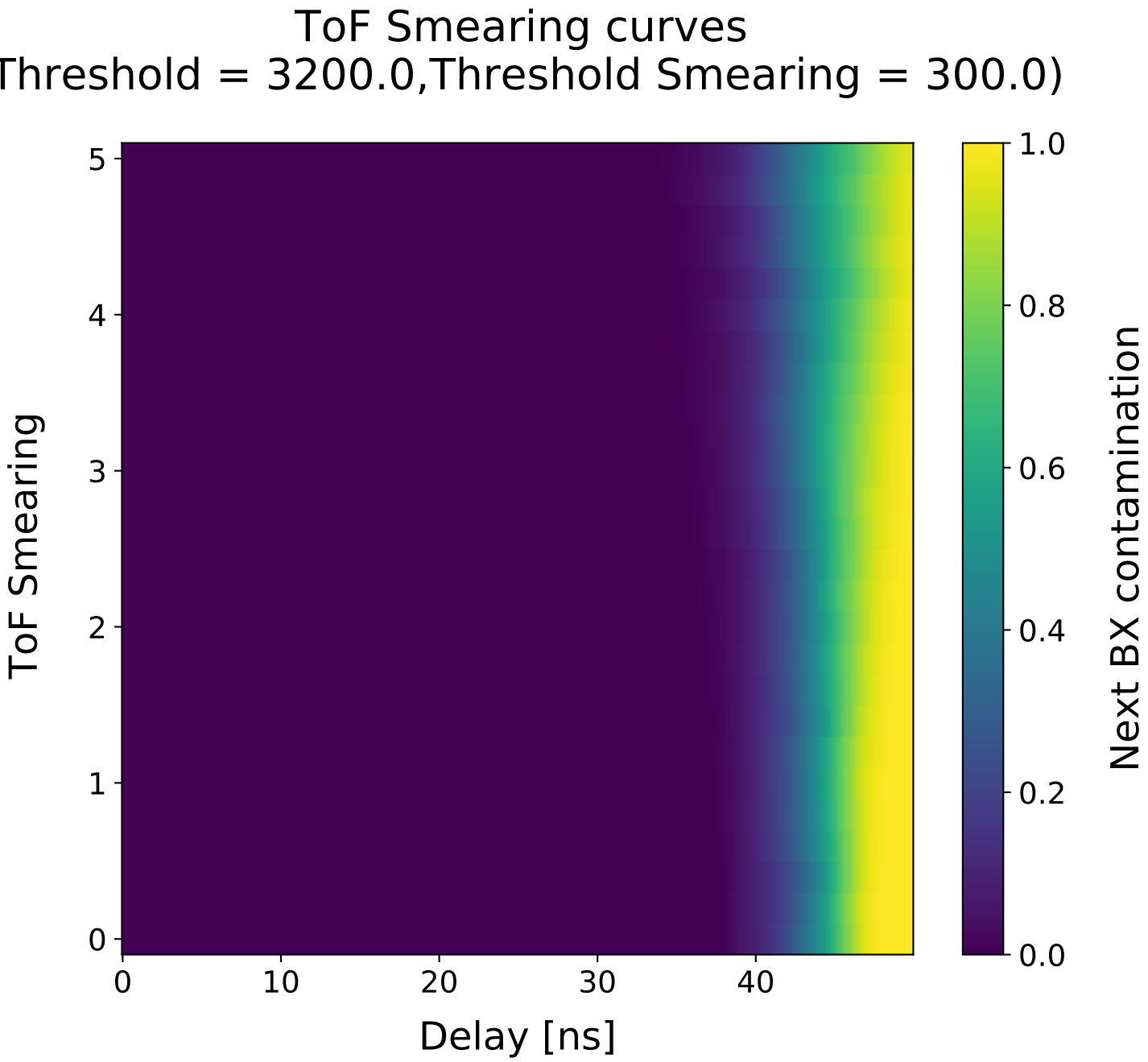

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

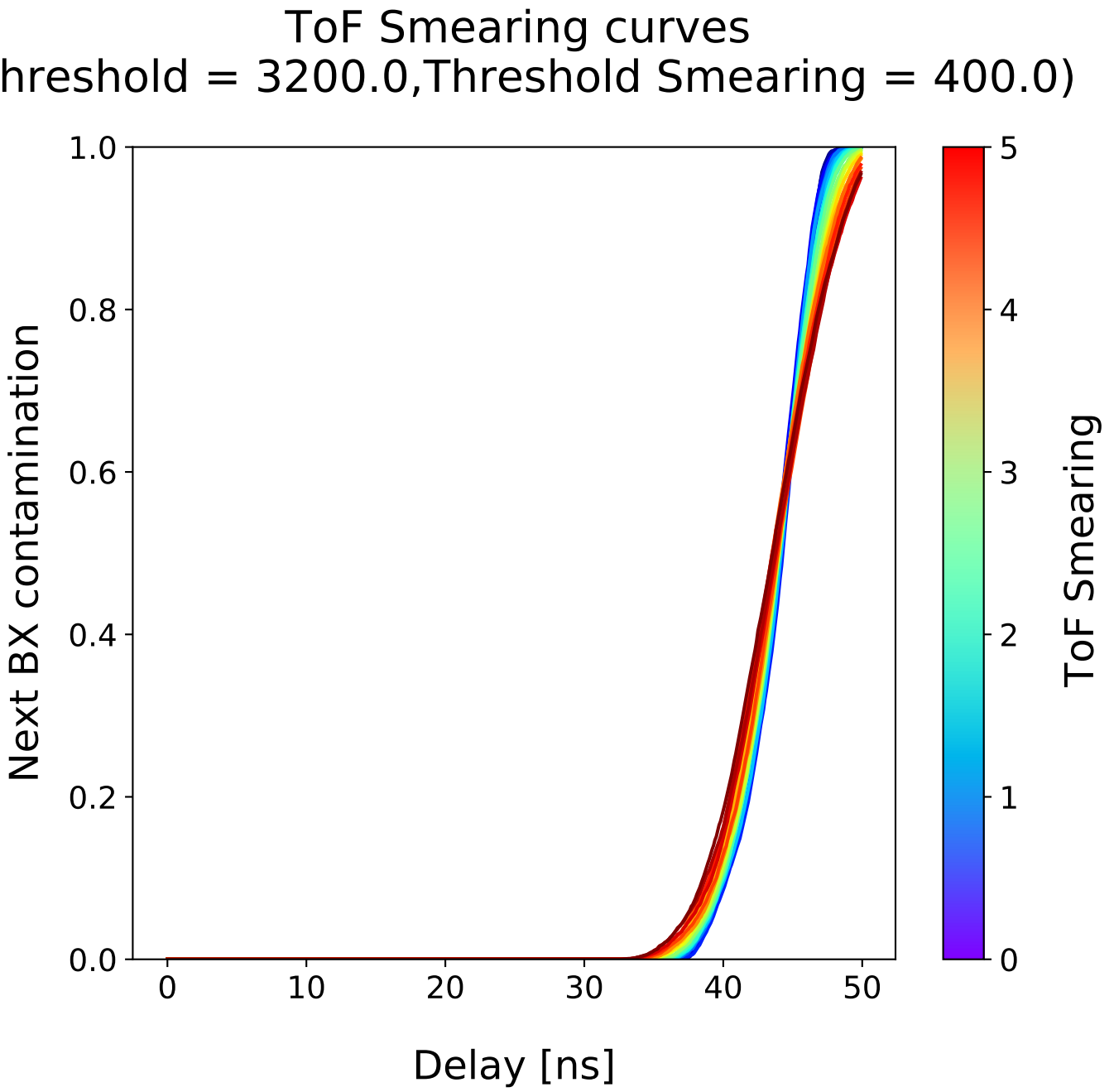

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

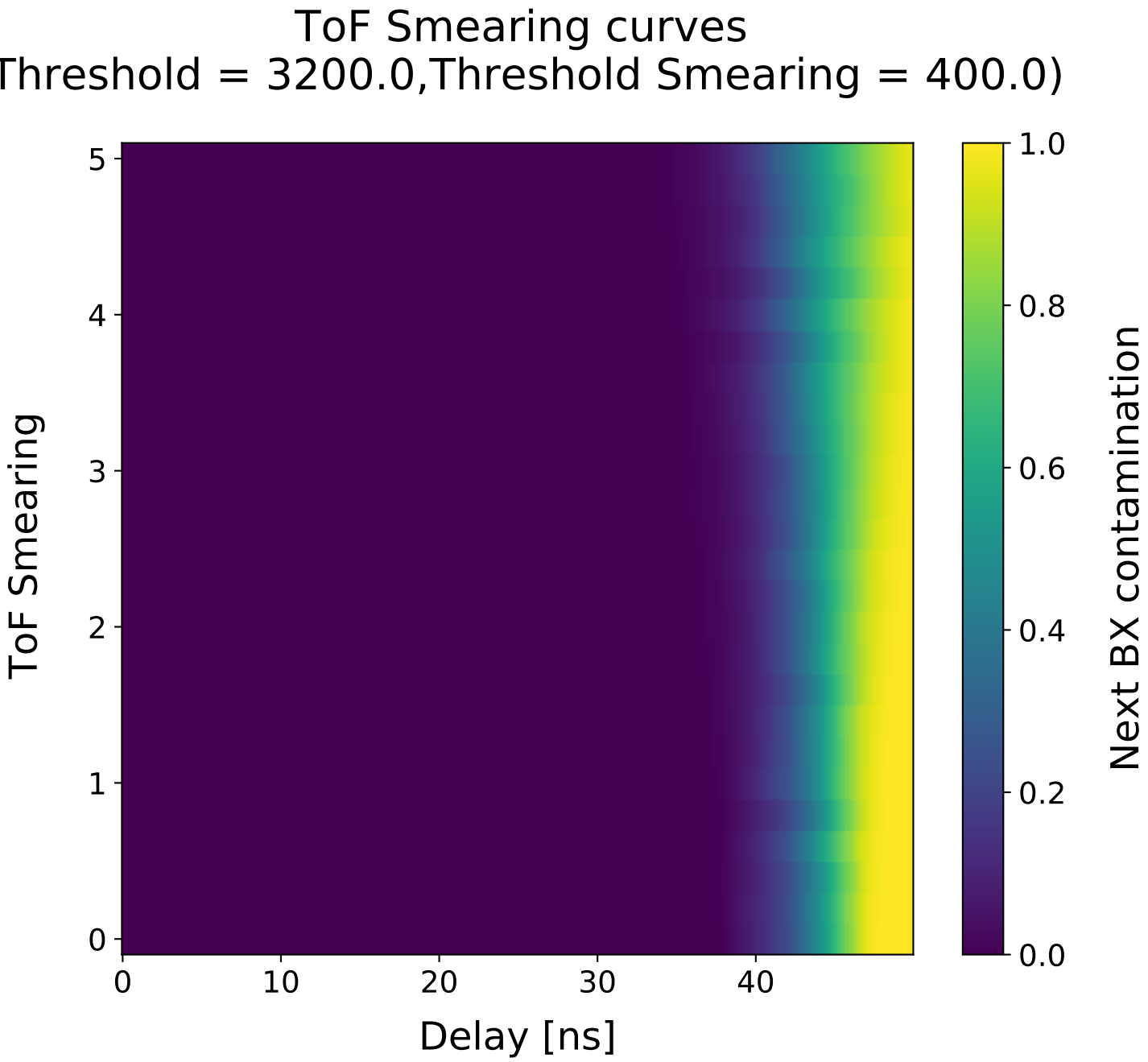

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

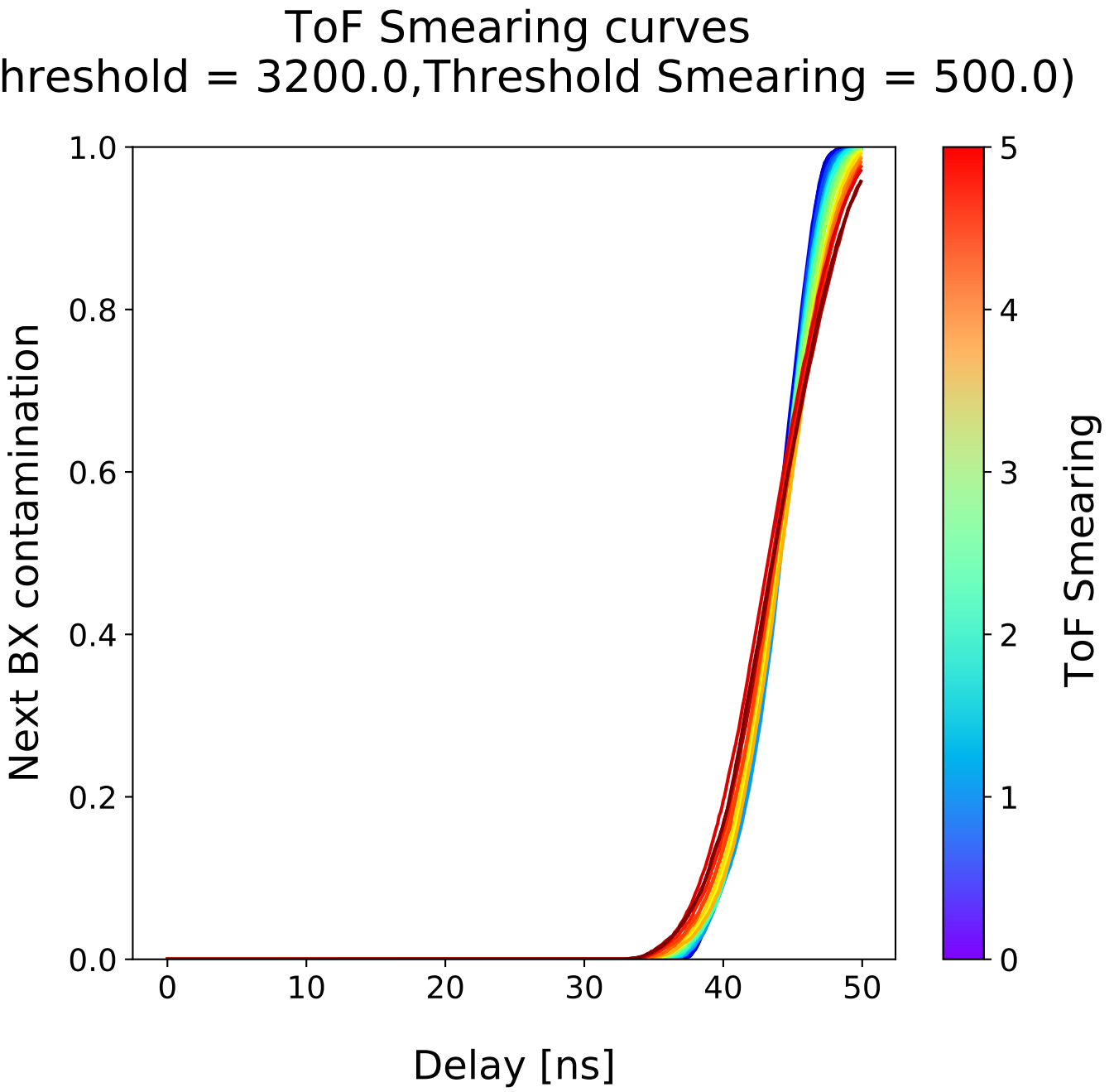

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

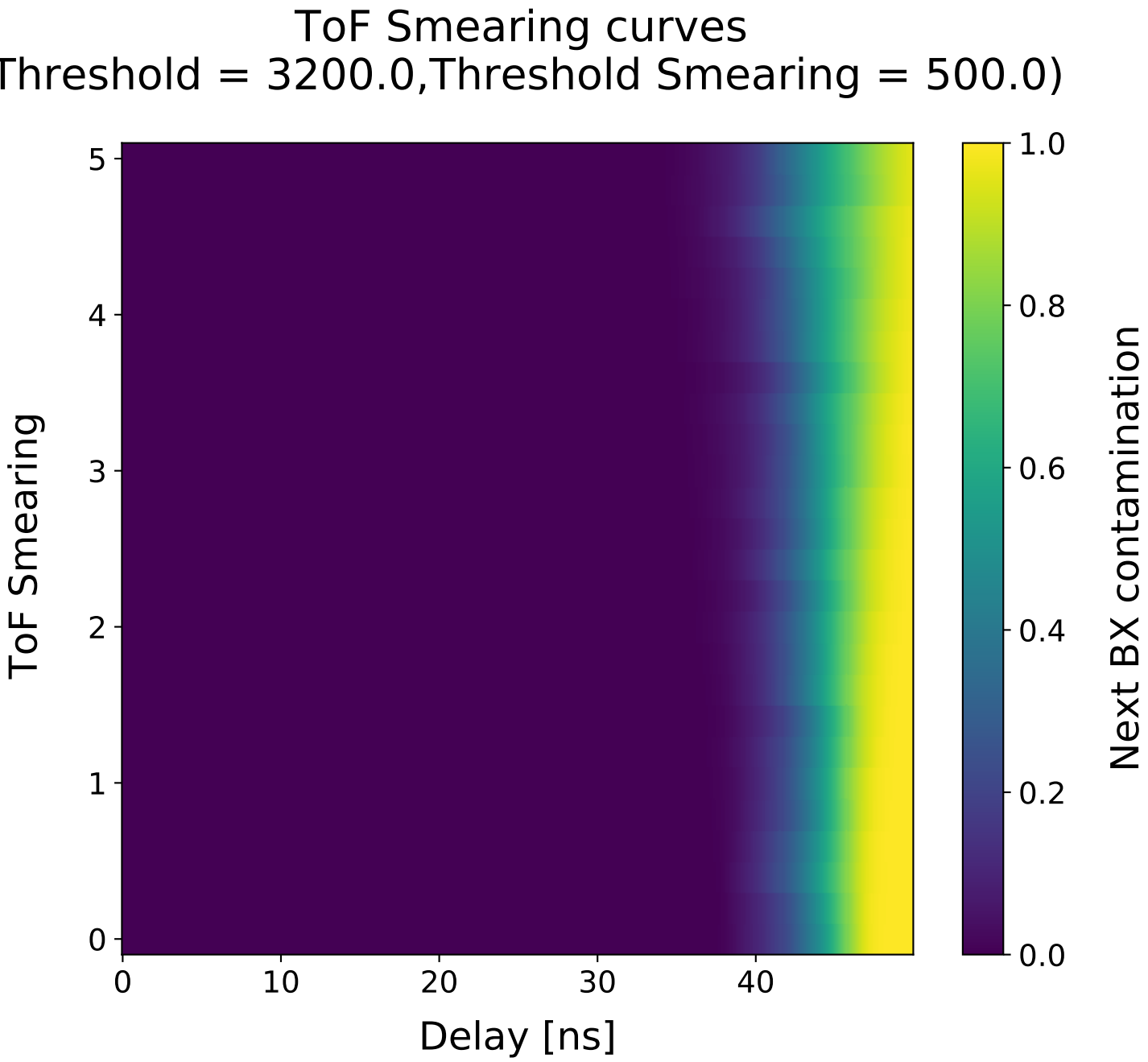

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

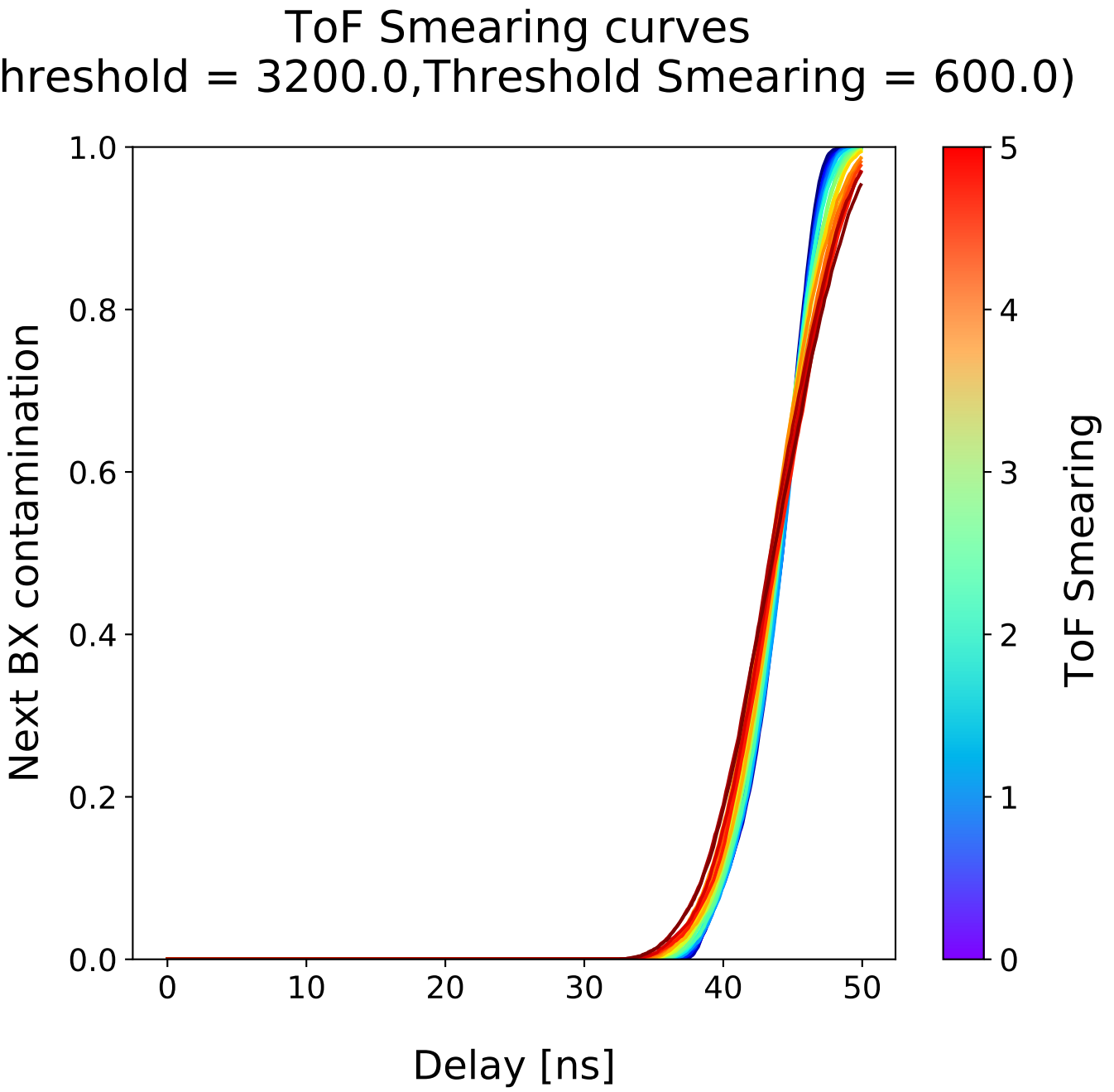

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

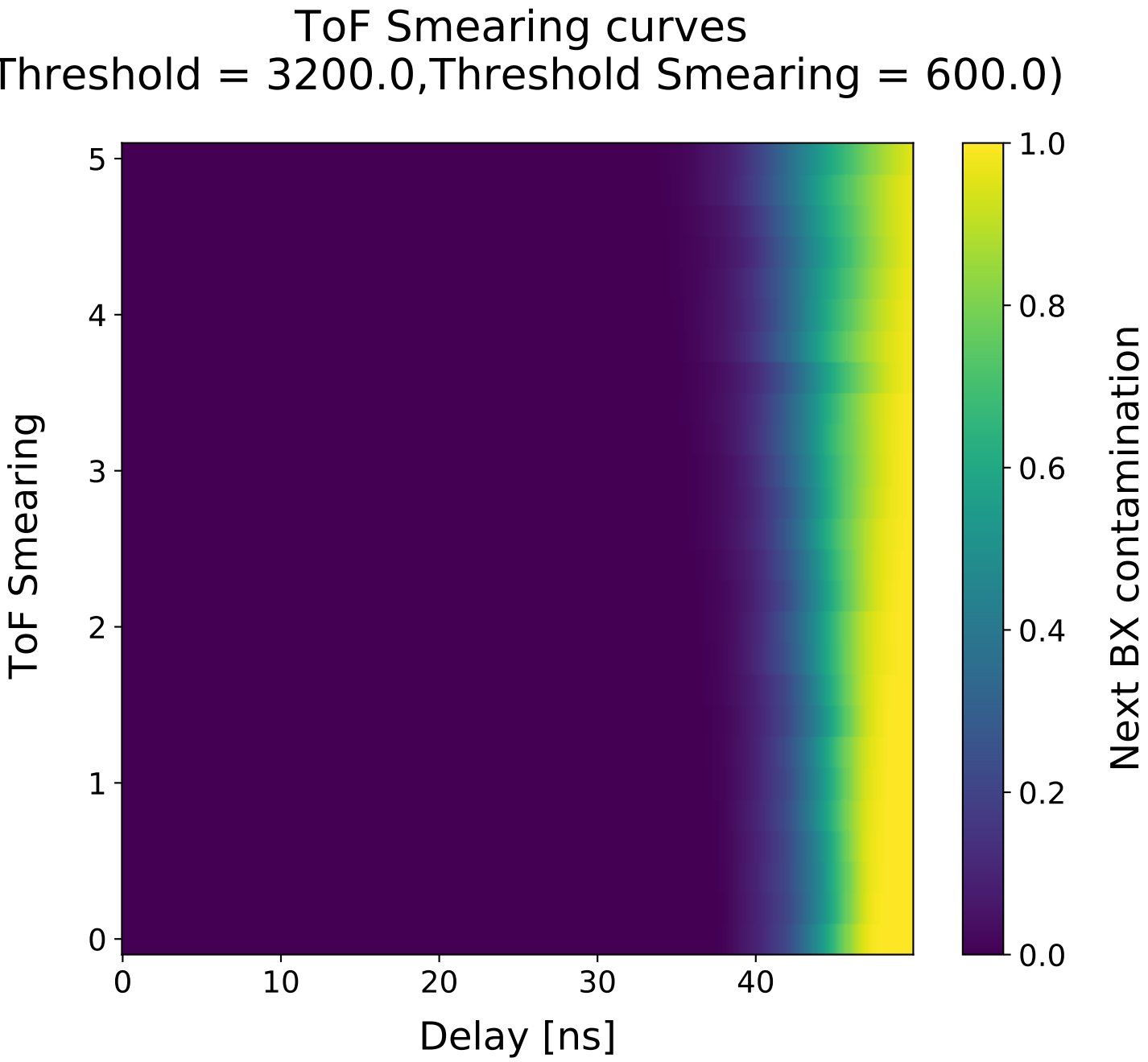

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

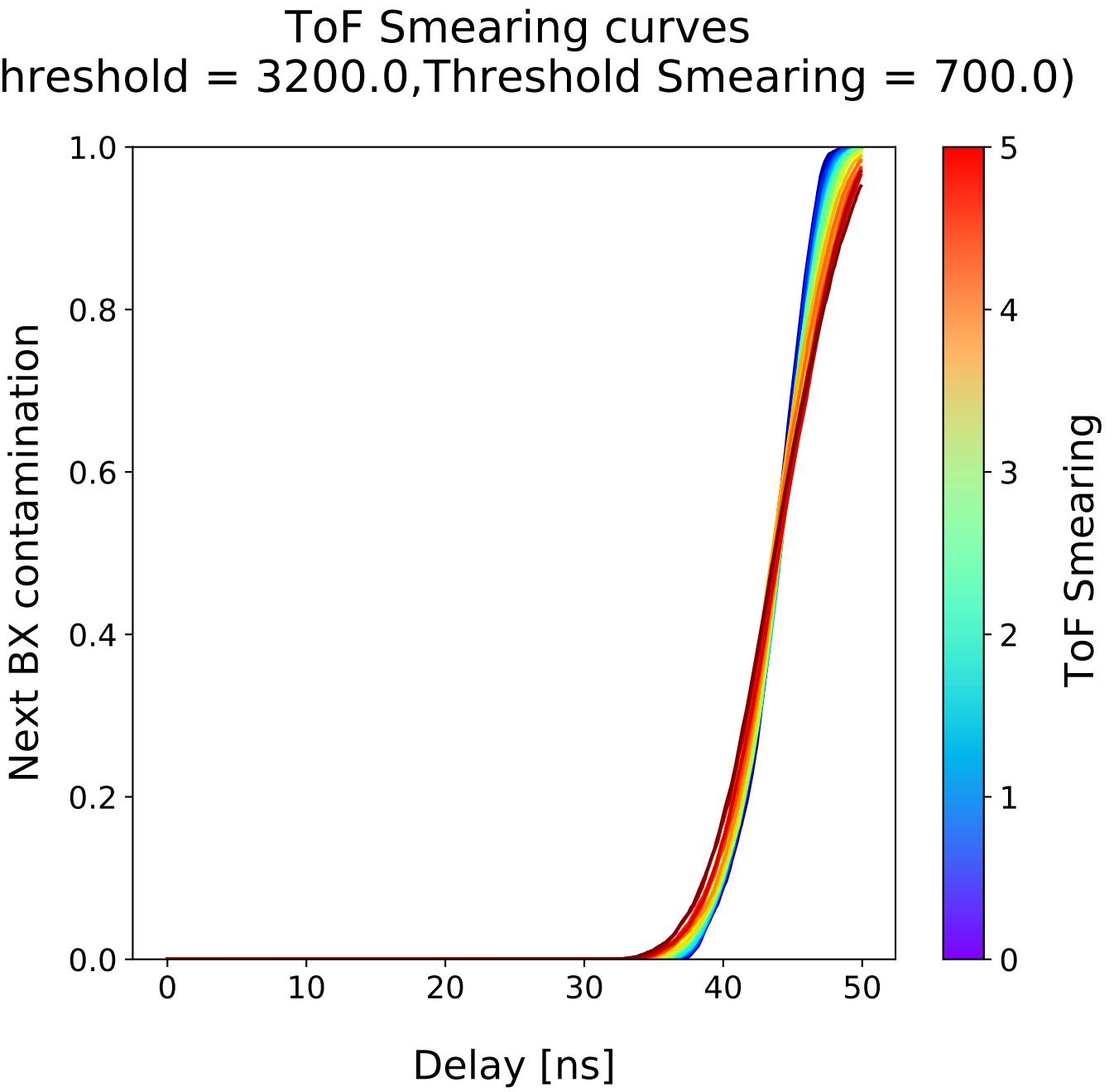

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

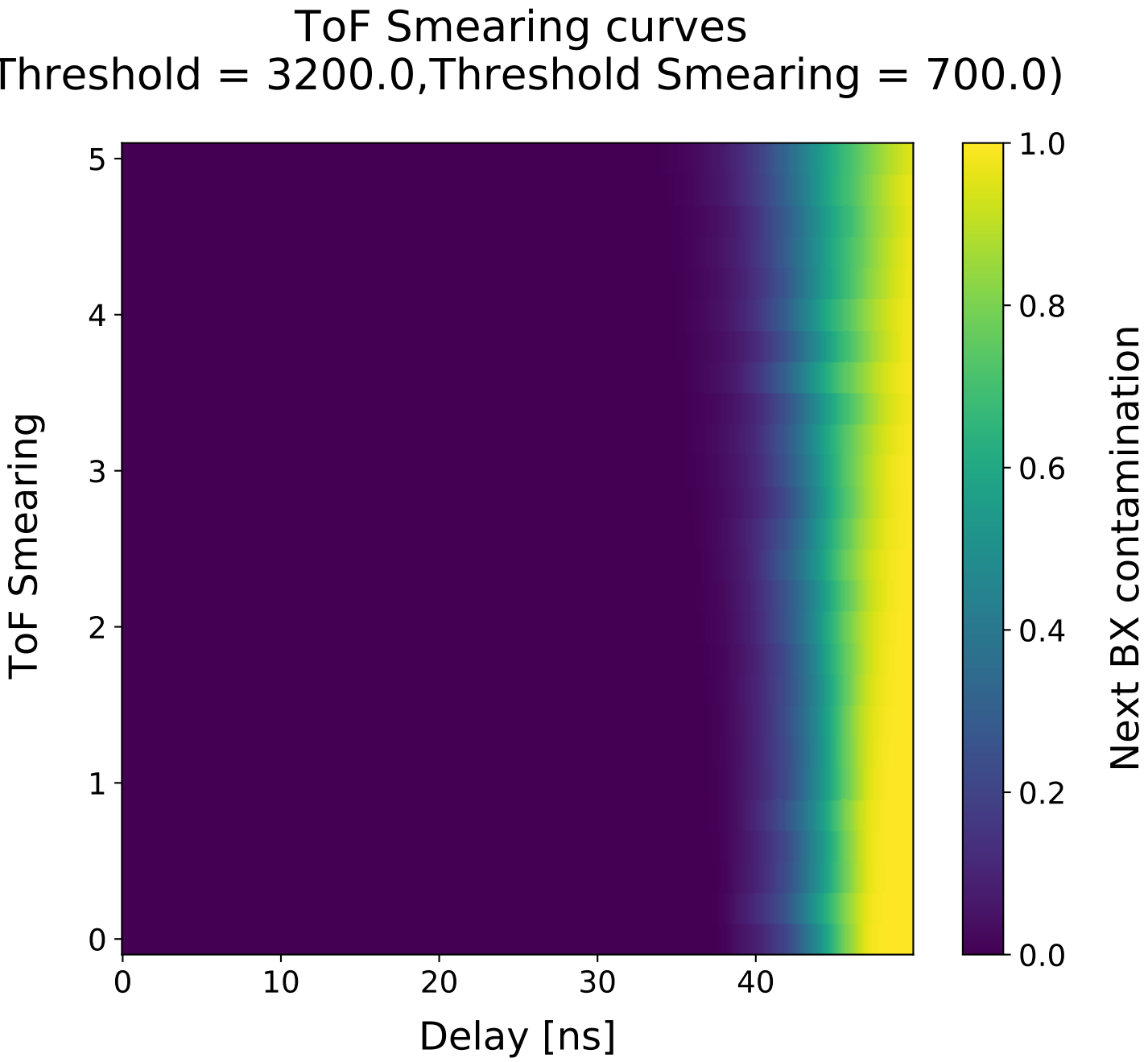

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

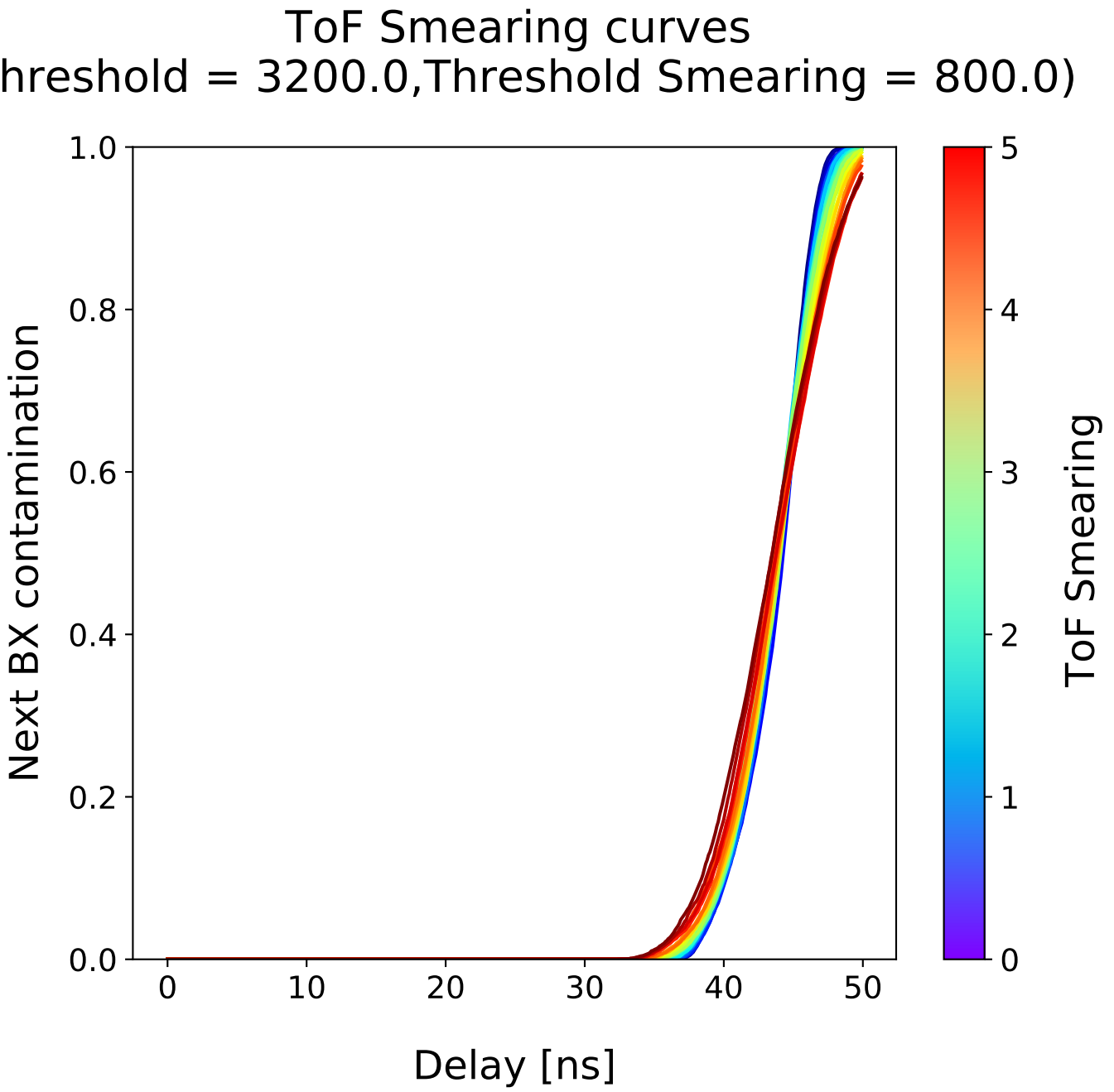

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

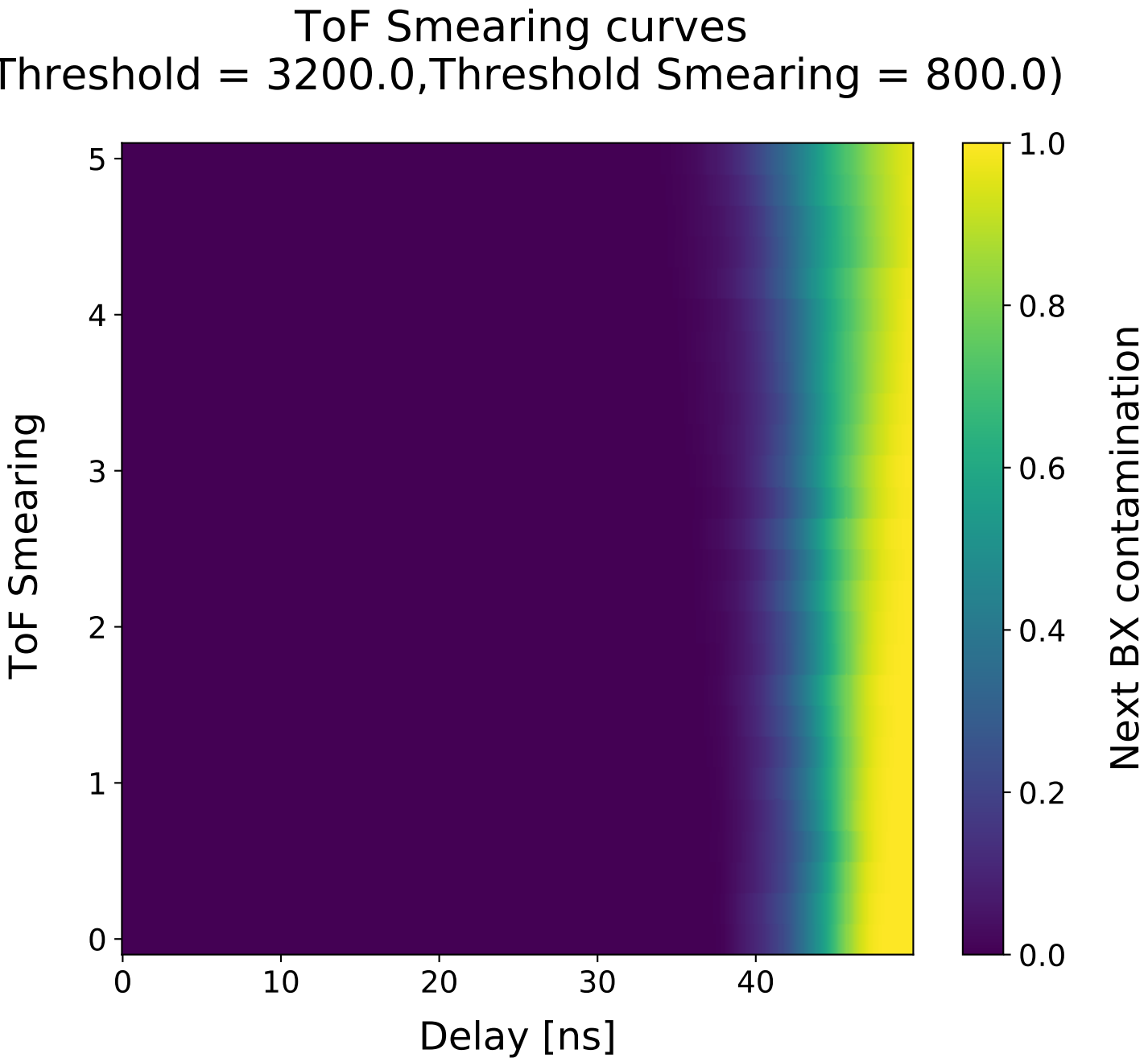

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

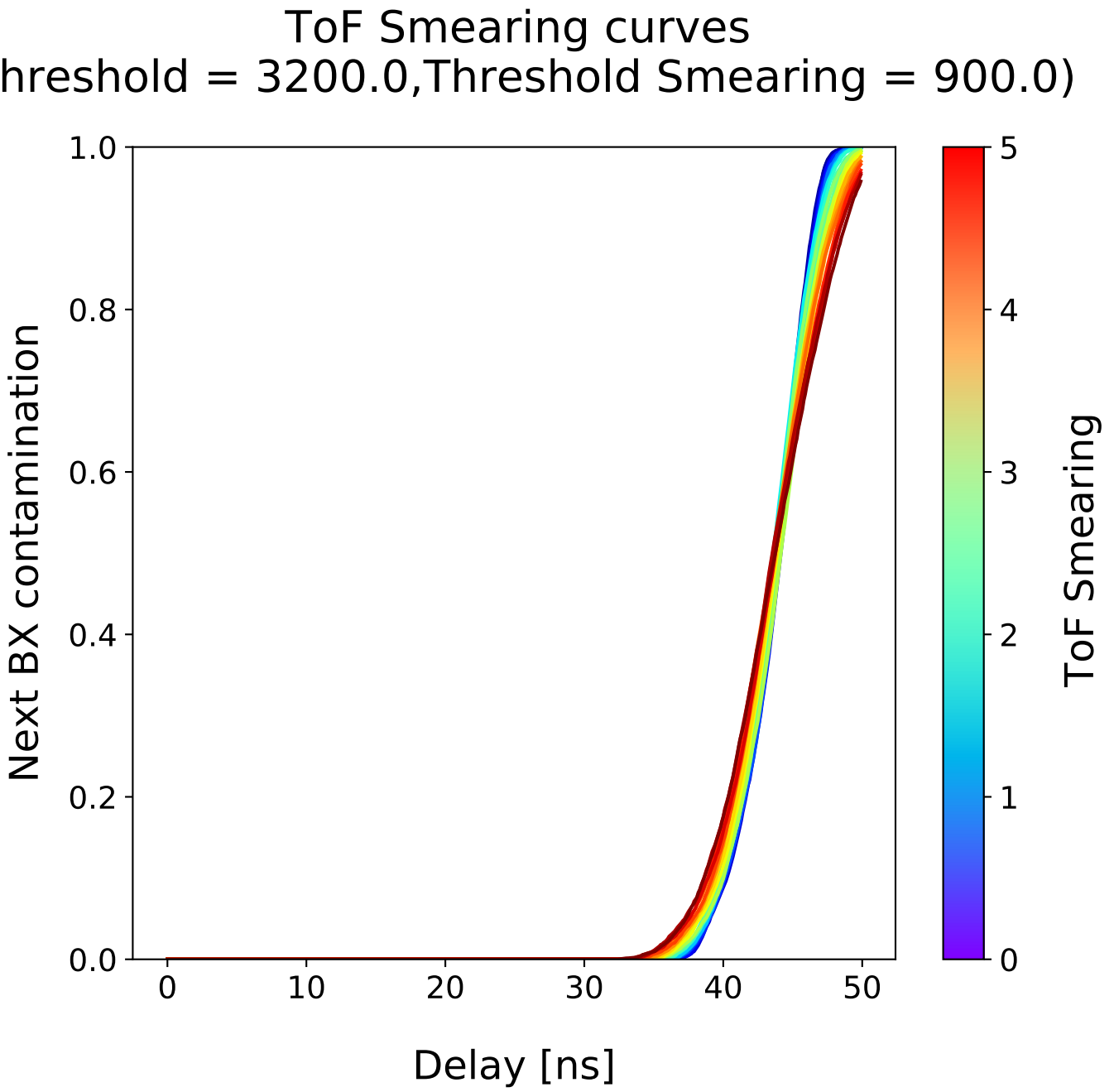

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

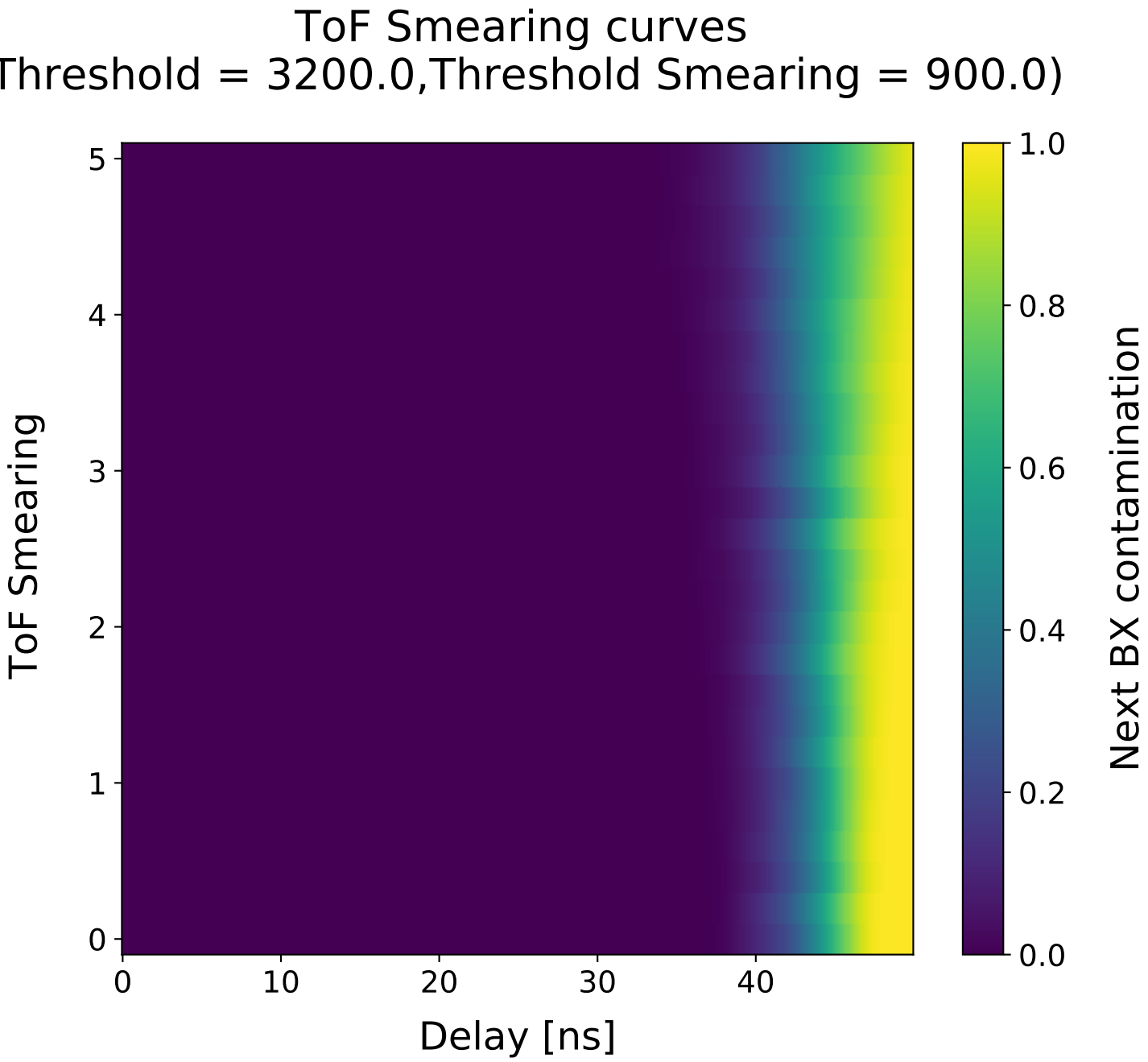

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

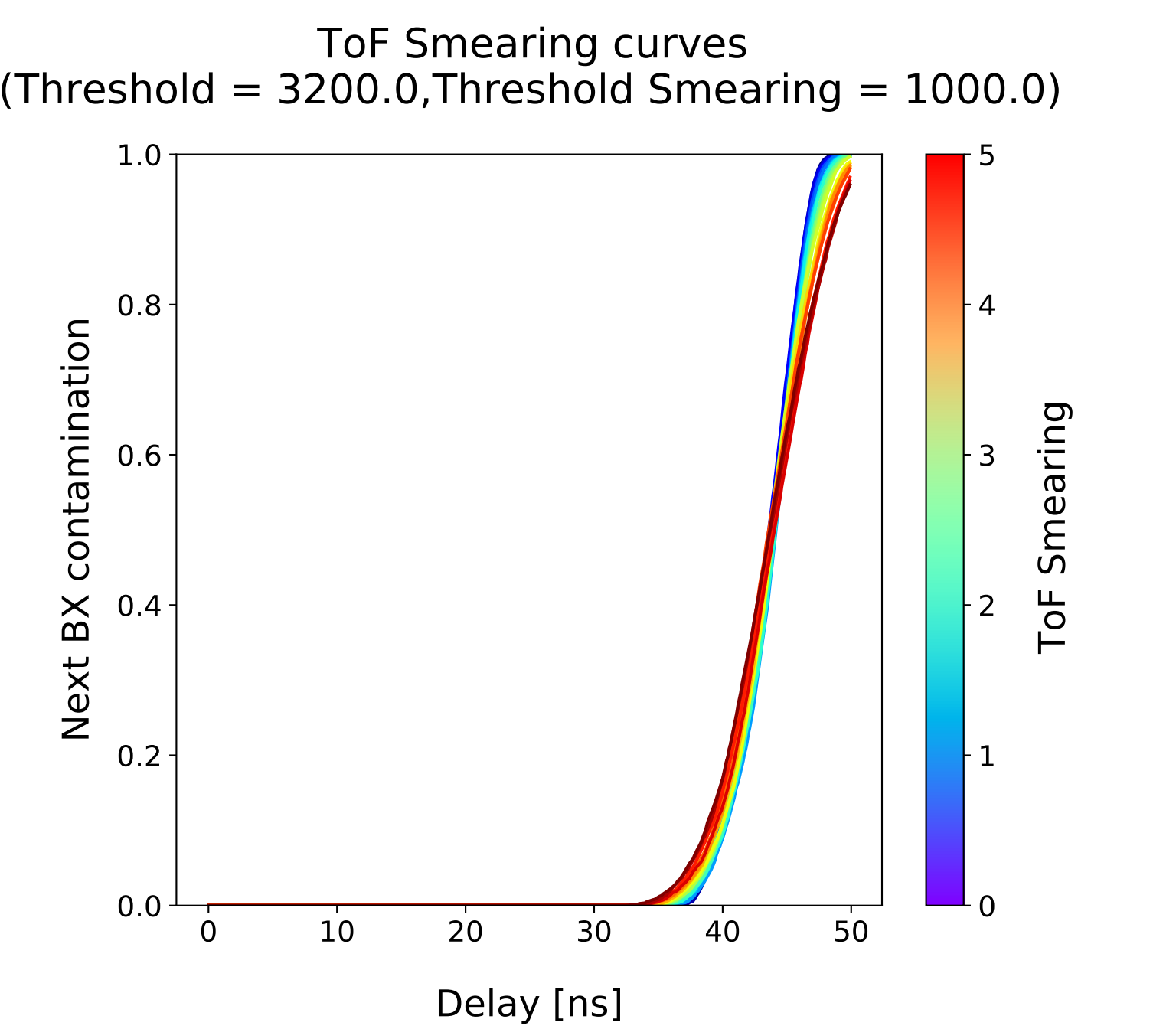

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

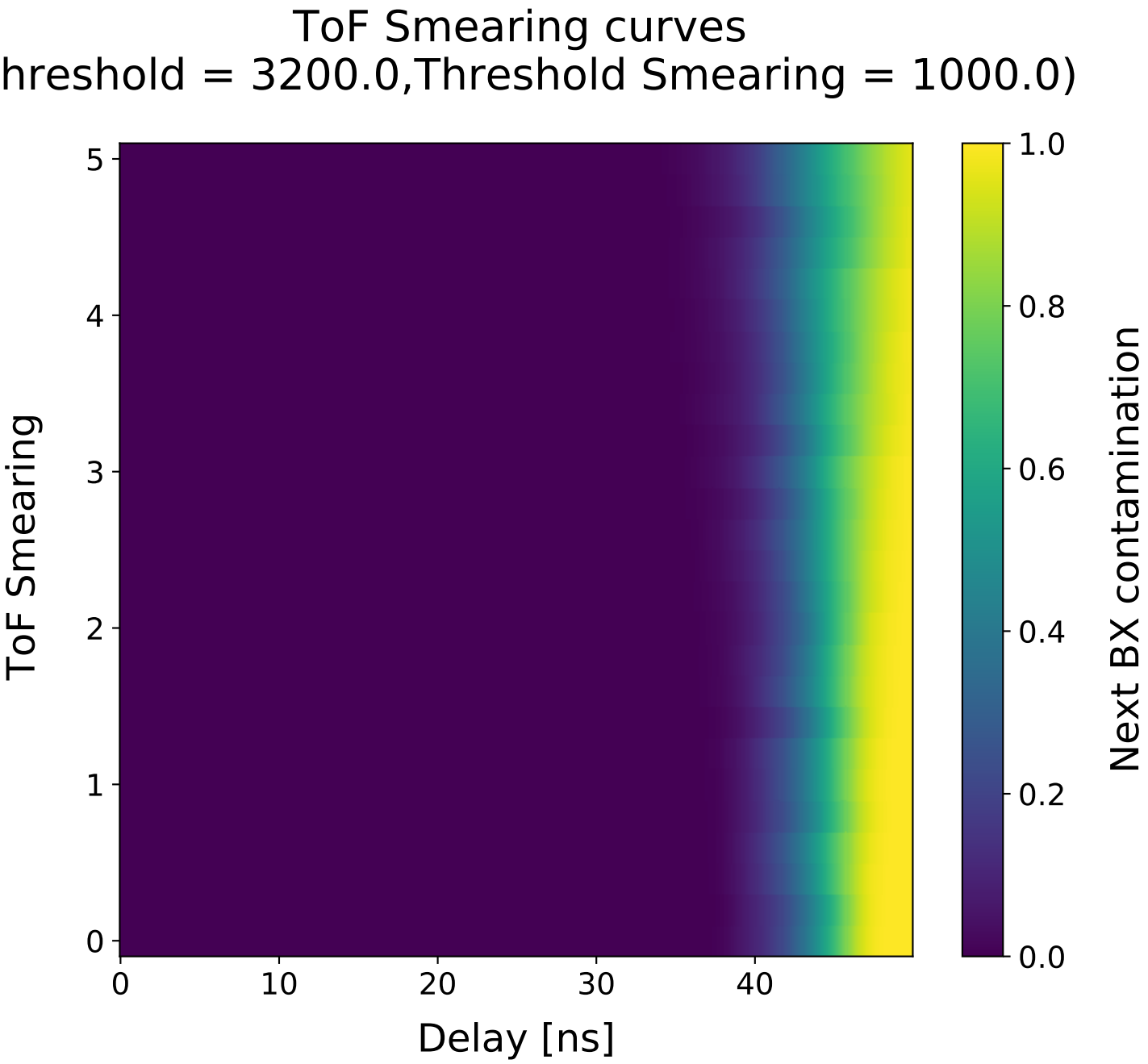

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

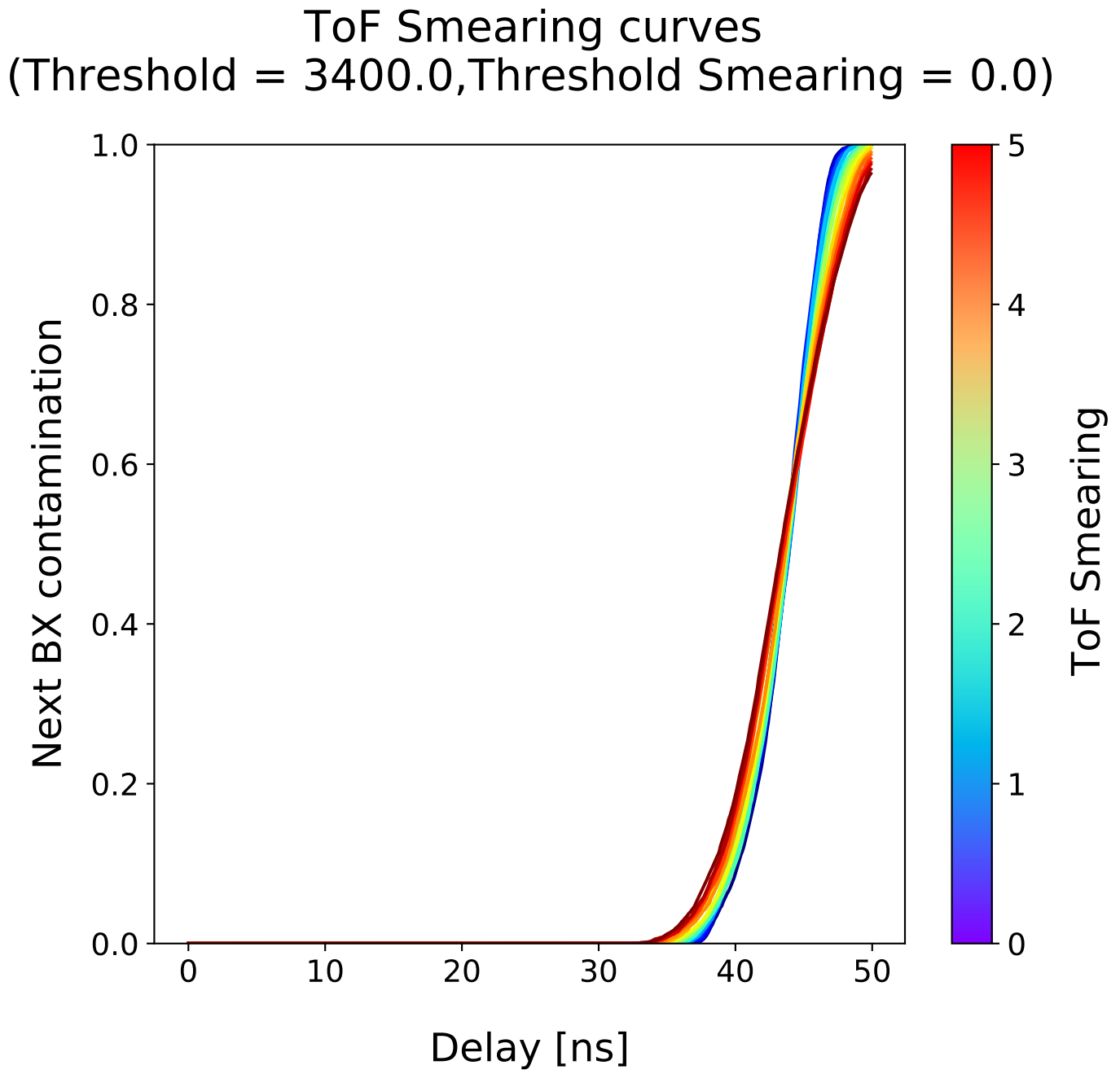

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

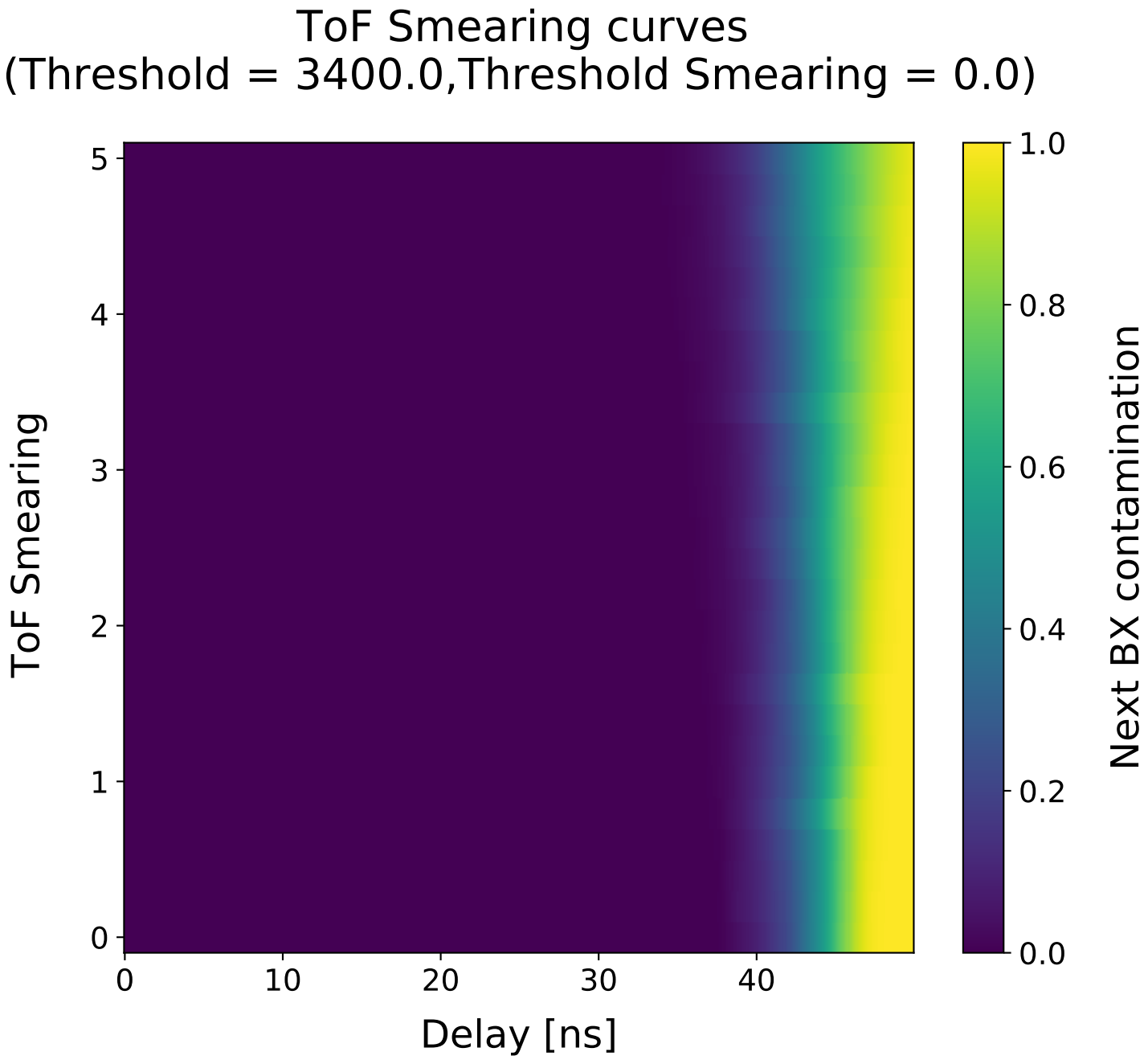

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

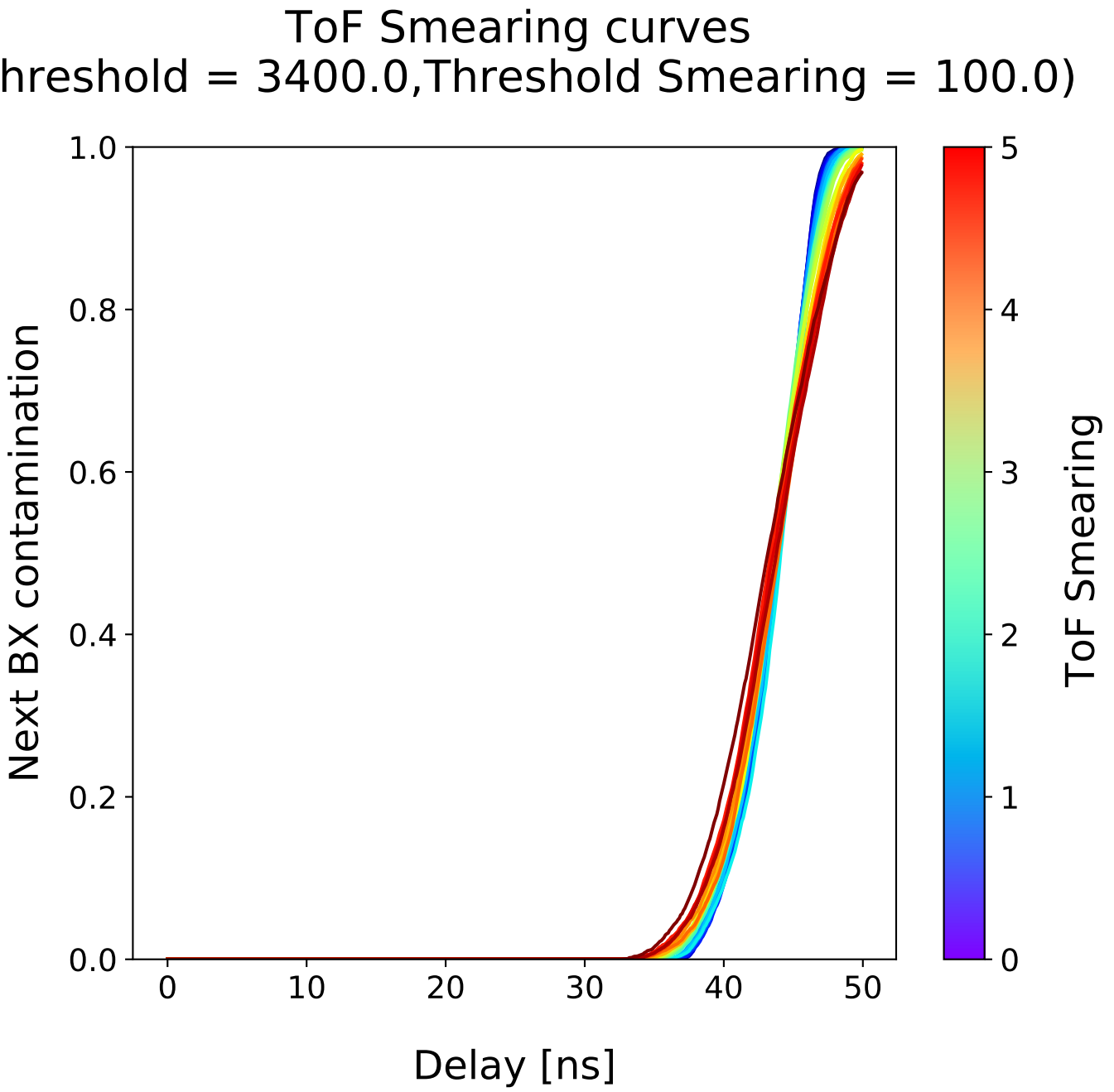

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

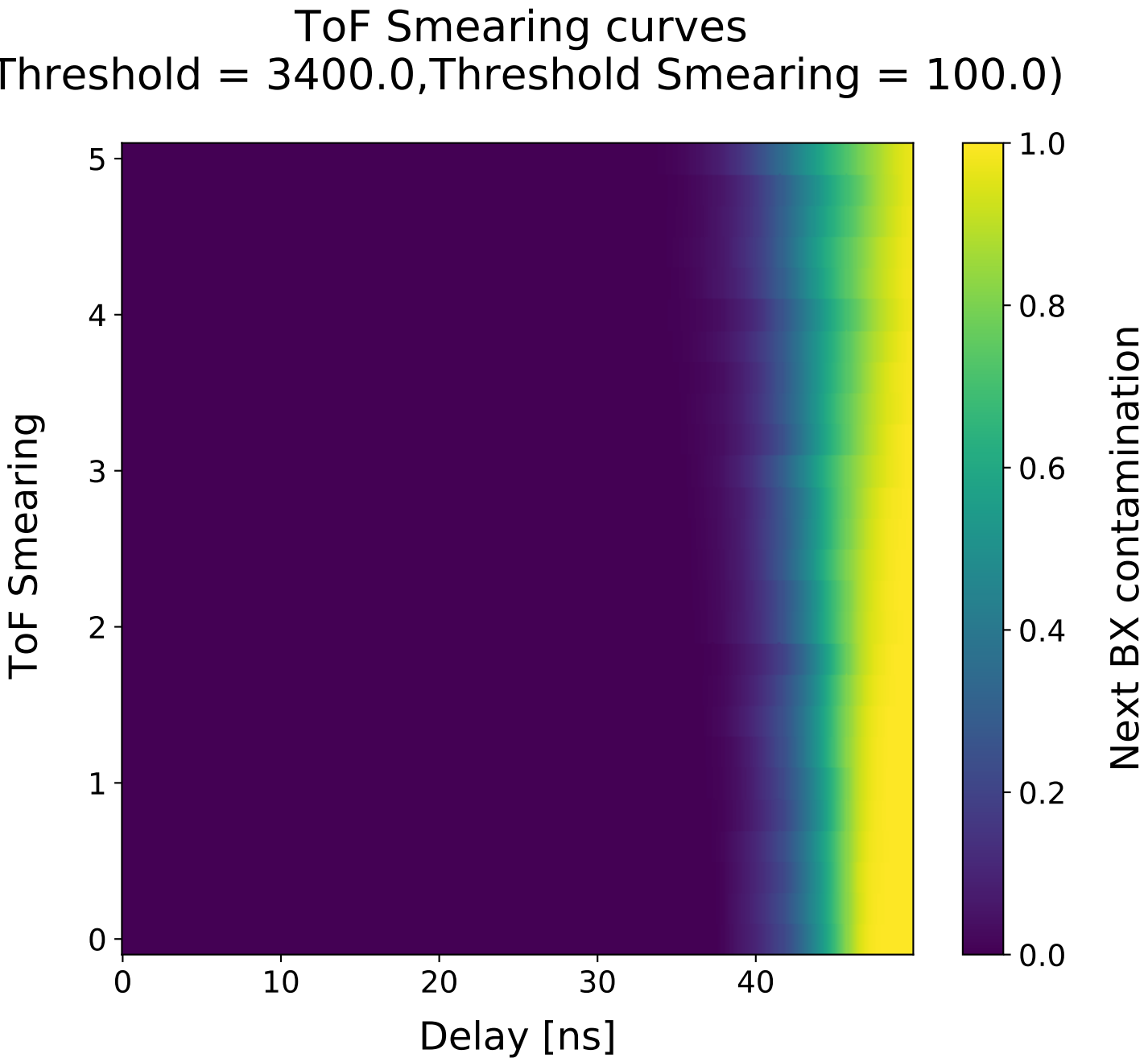

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
5
4
3
2
1
0

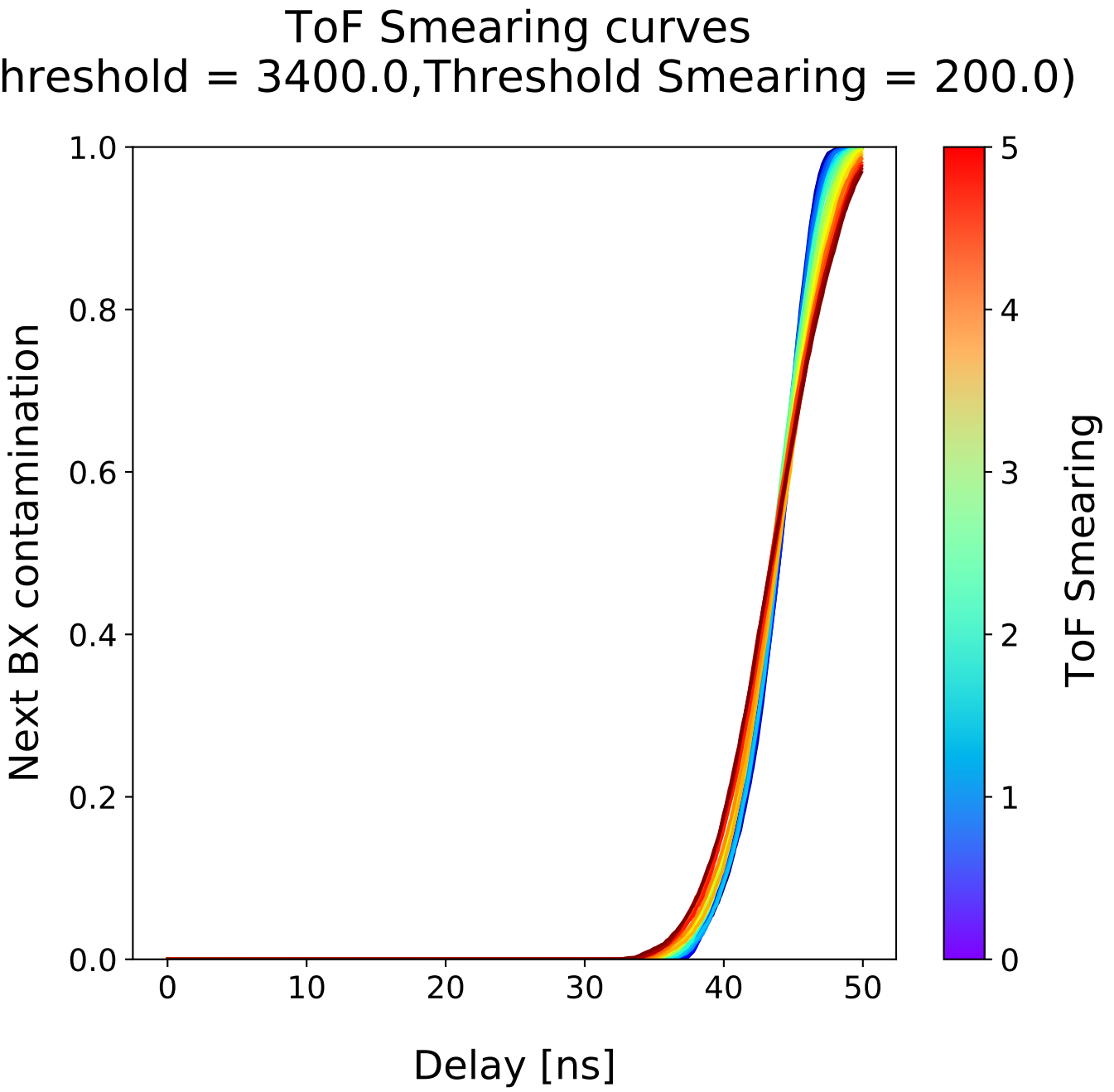

ToF Smearing curves
(Threshold = 3200.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

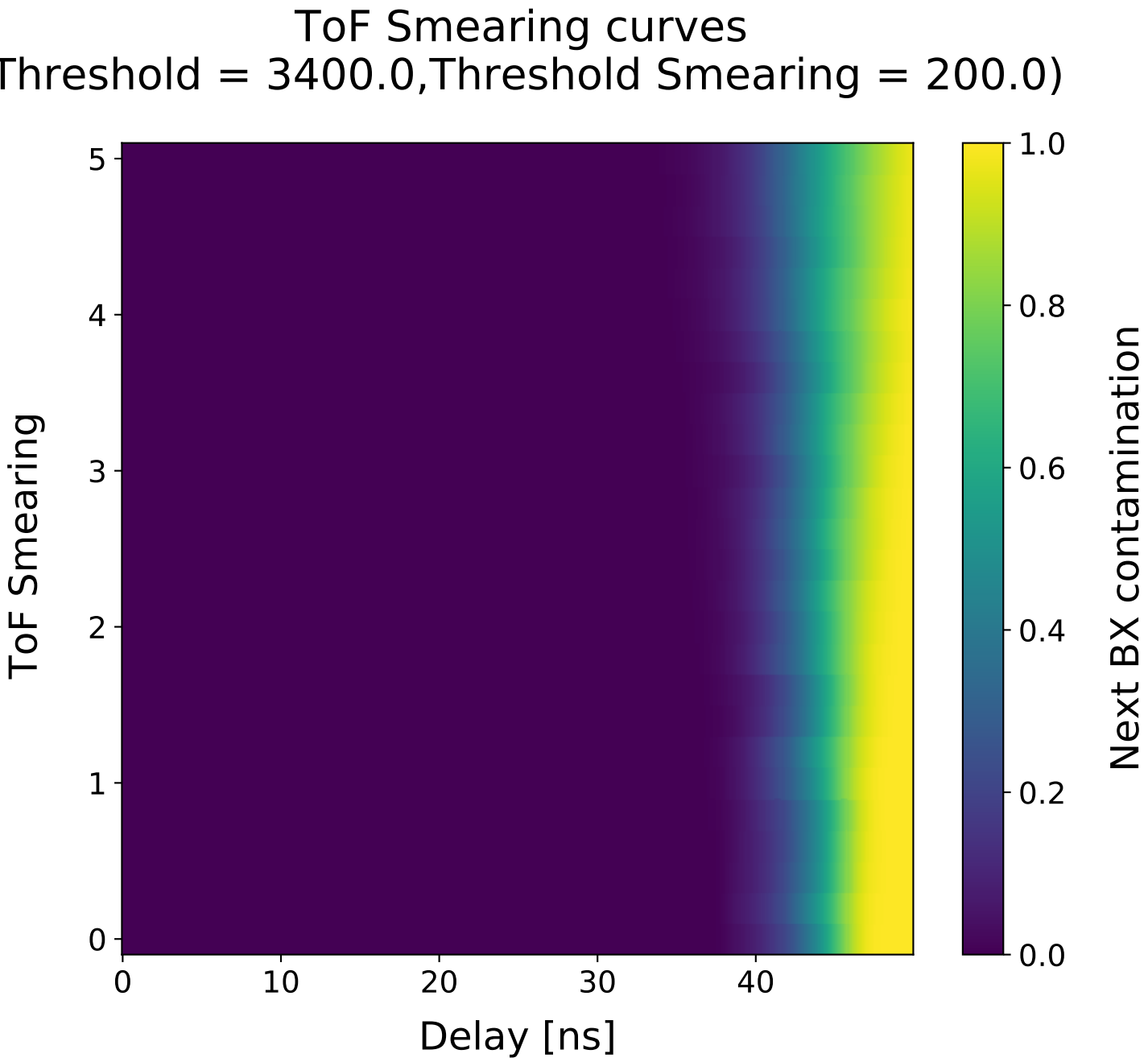

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
5
4
3
2
1
0

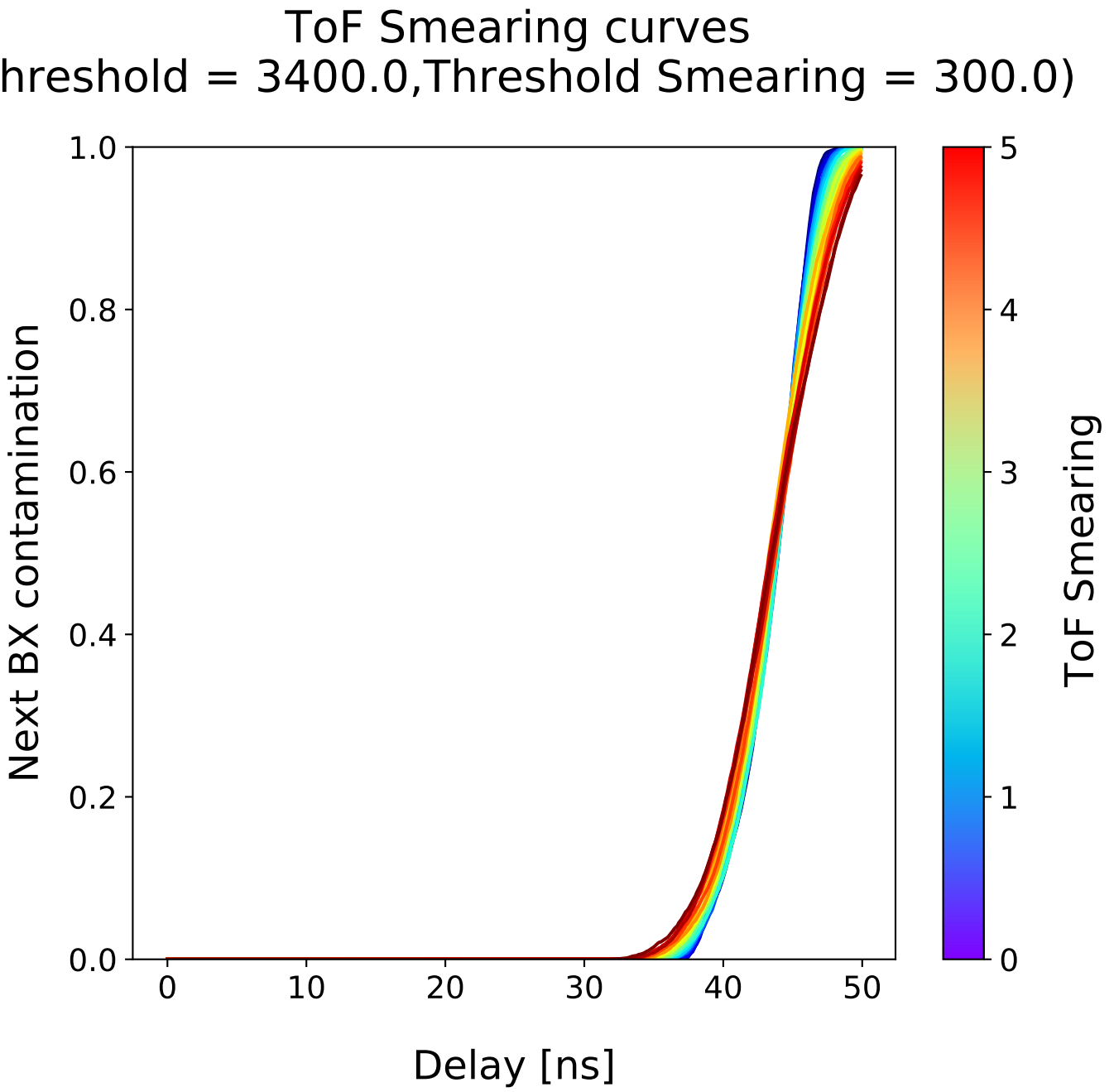

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

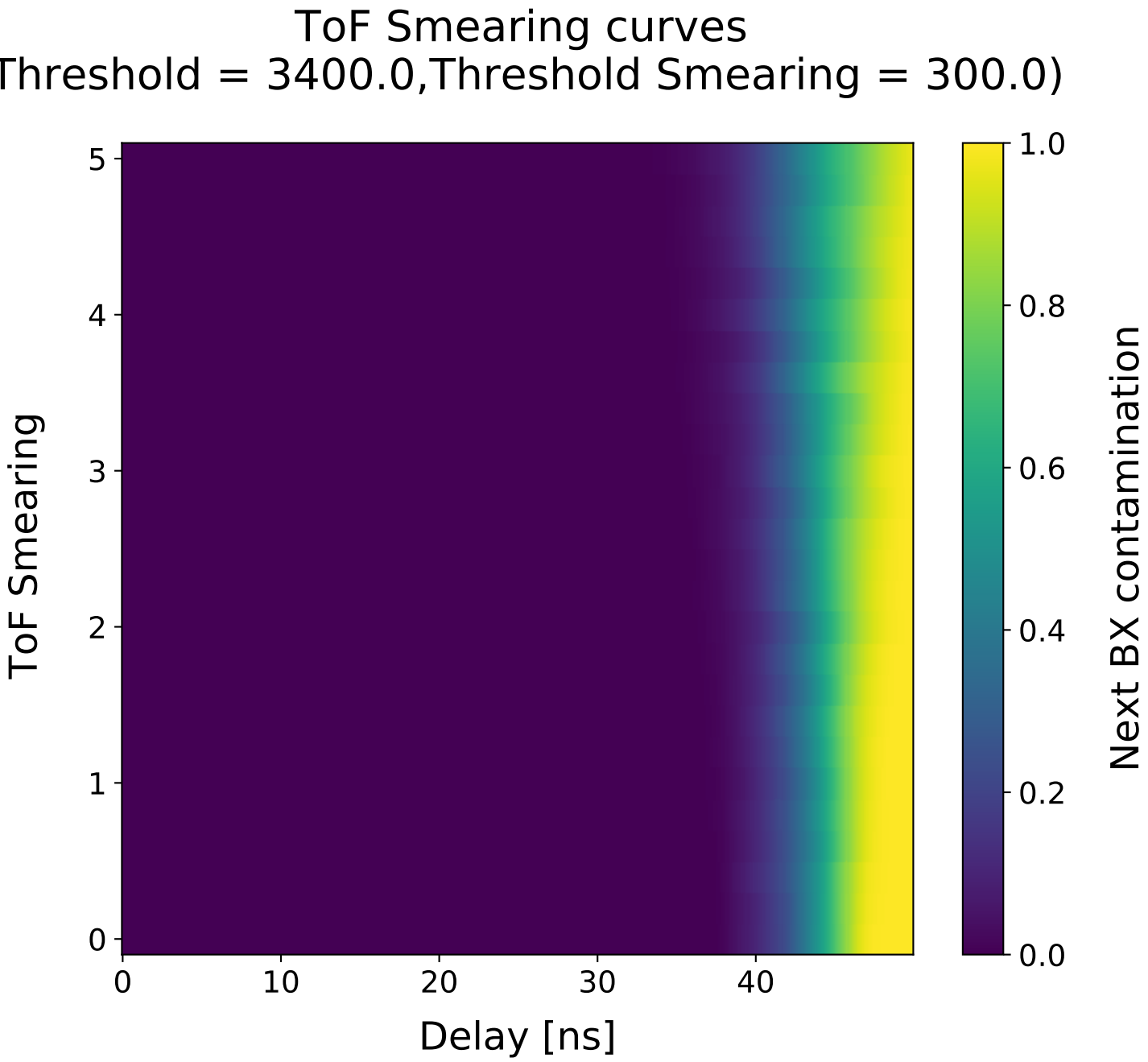

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

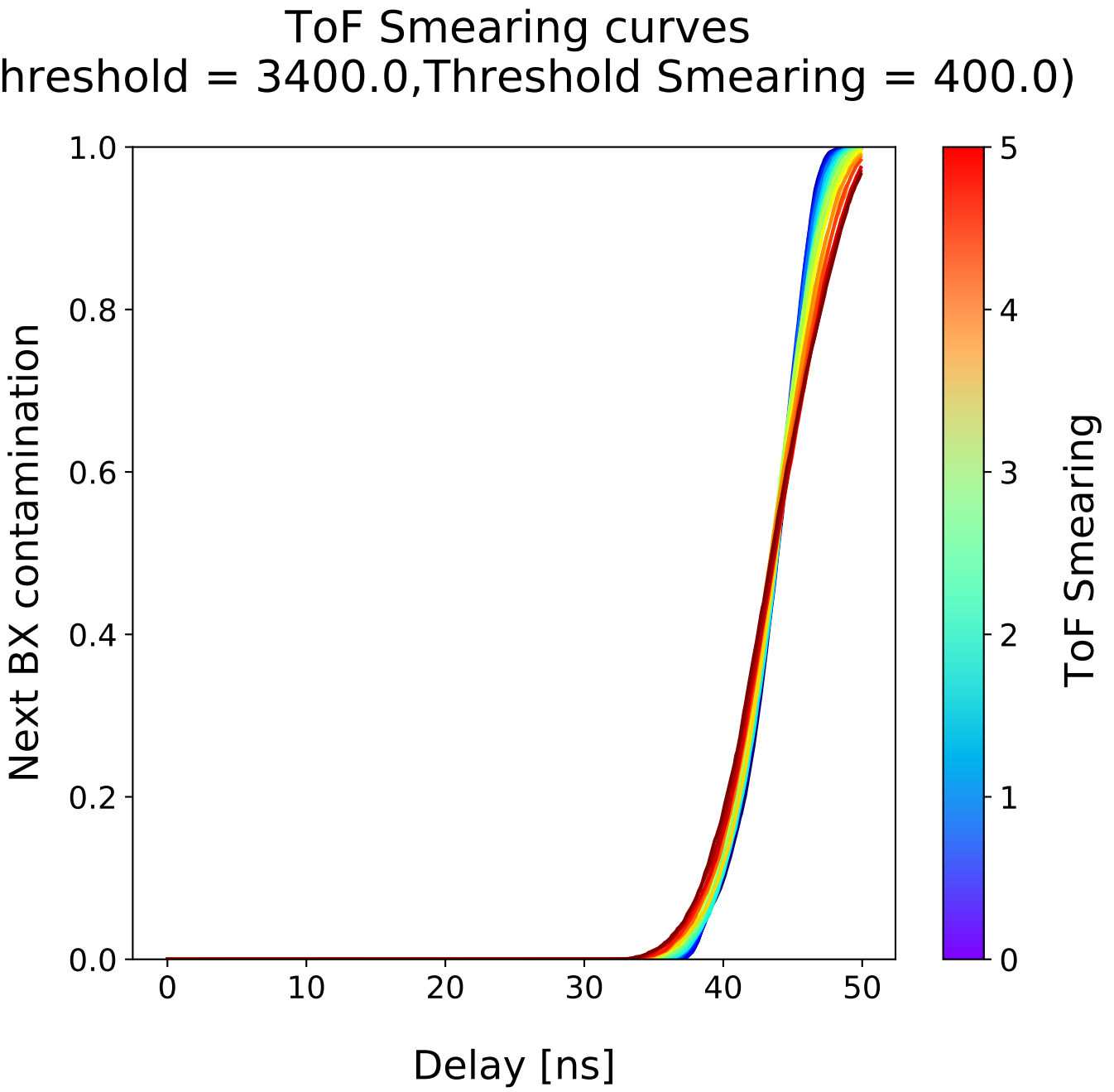

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

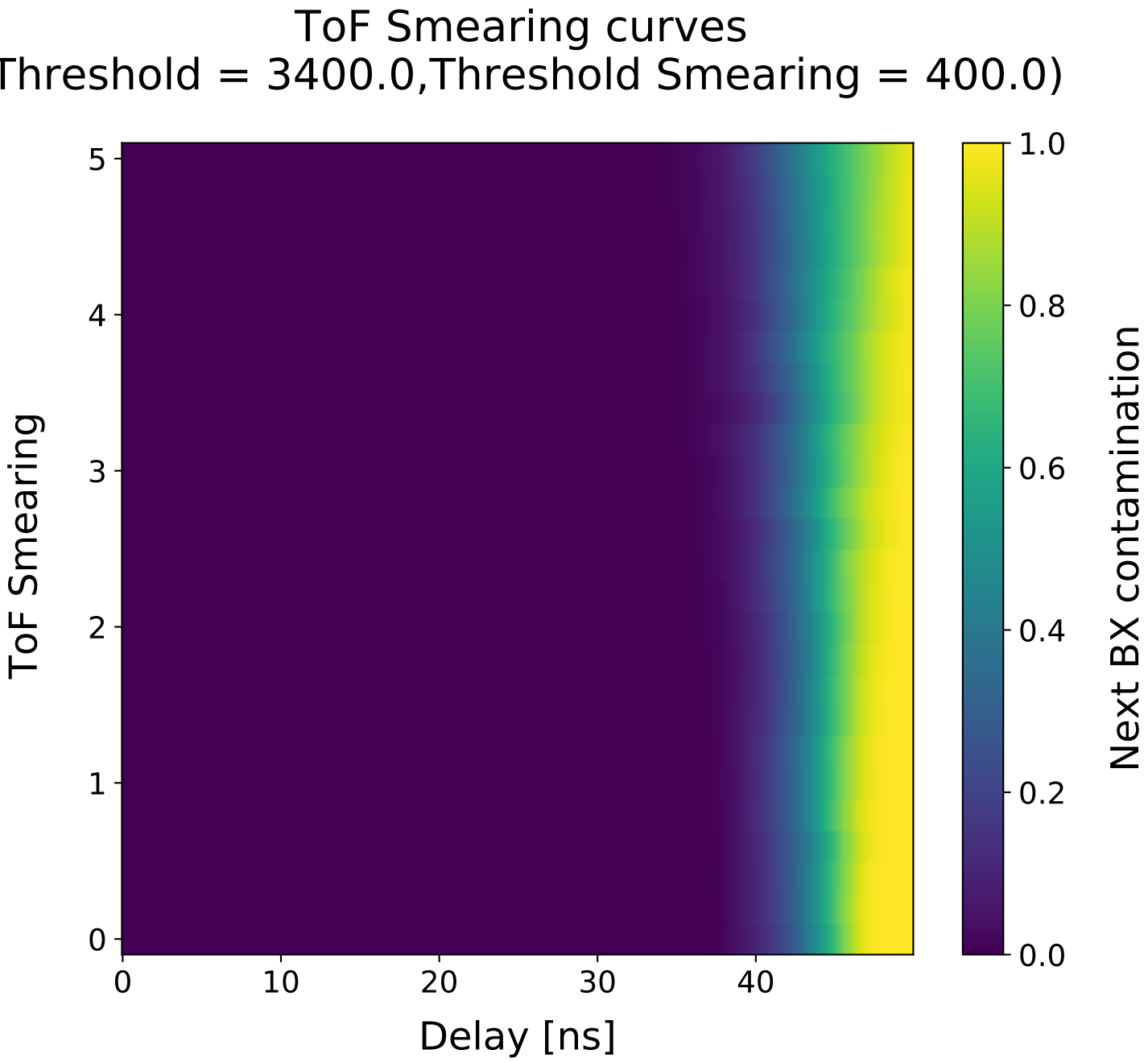

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

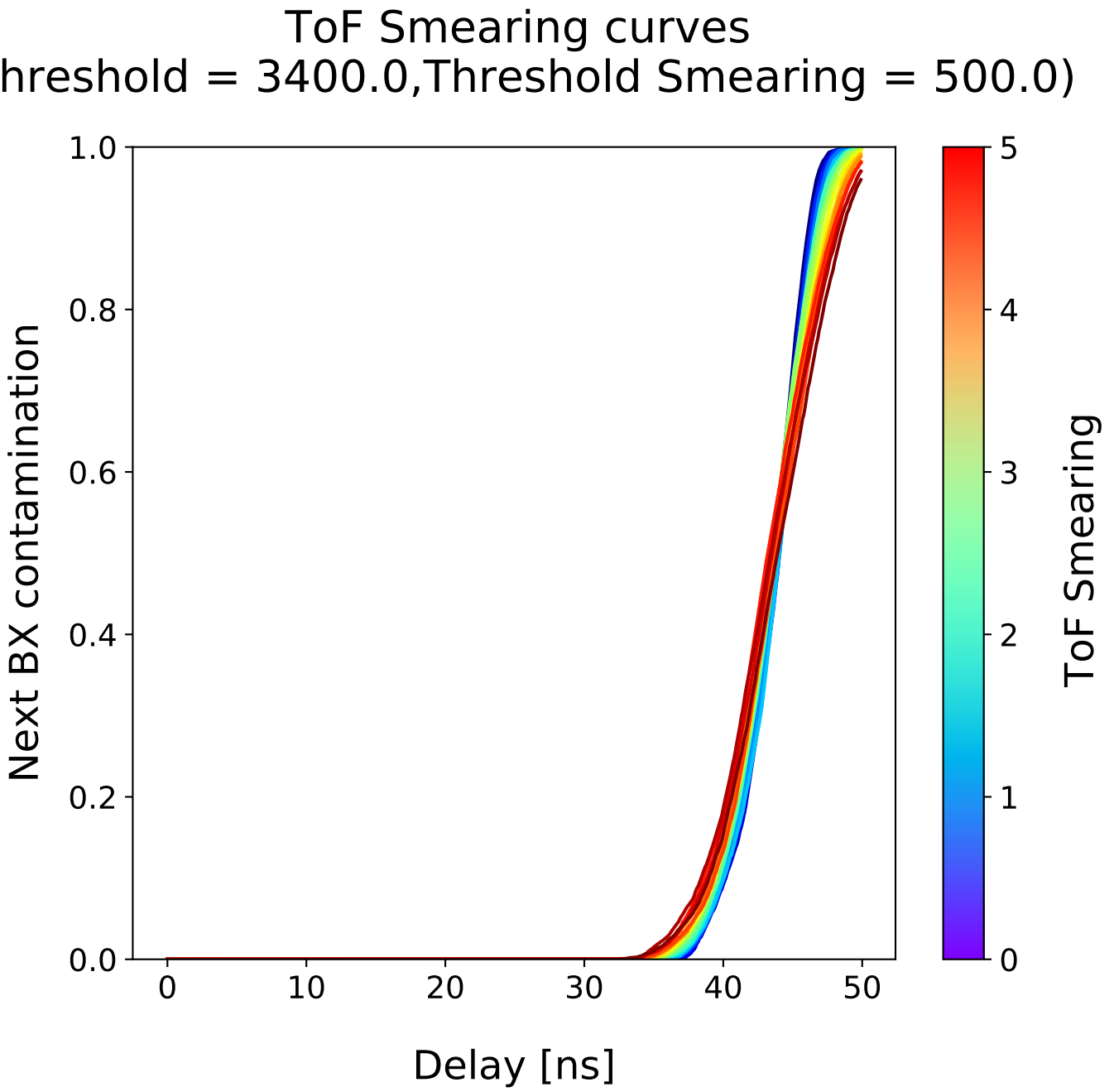

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

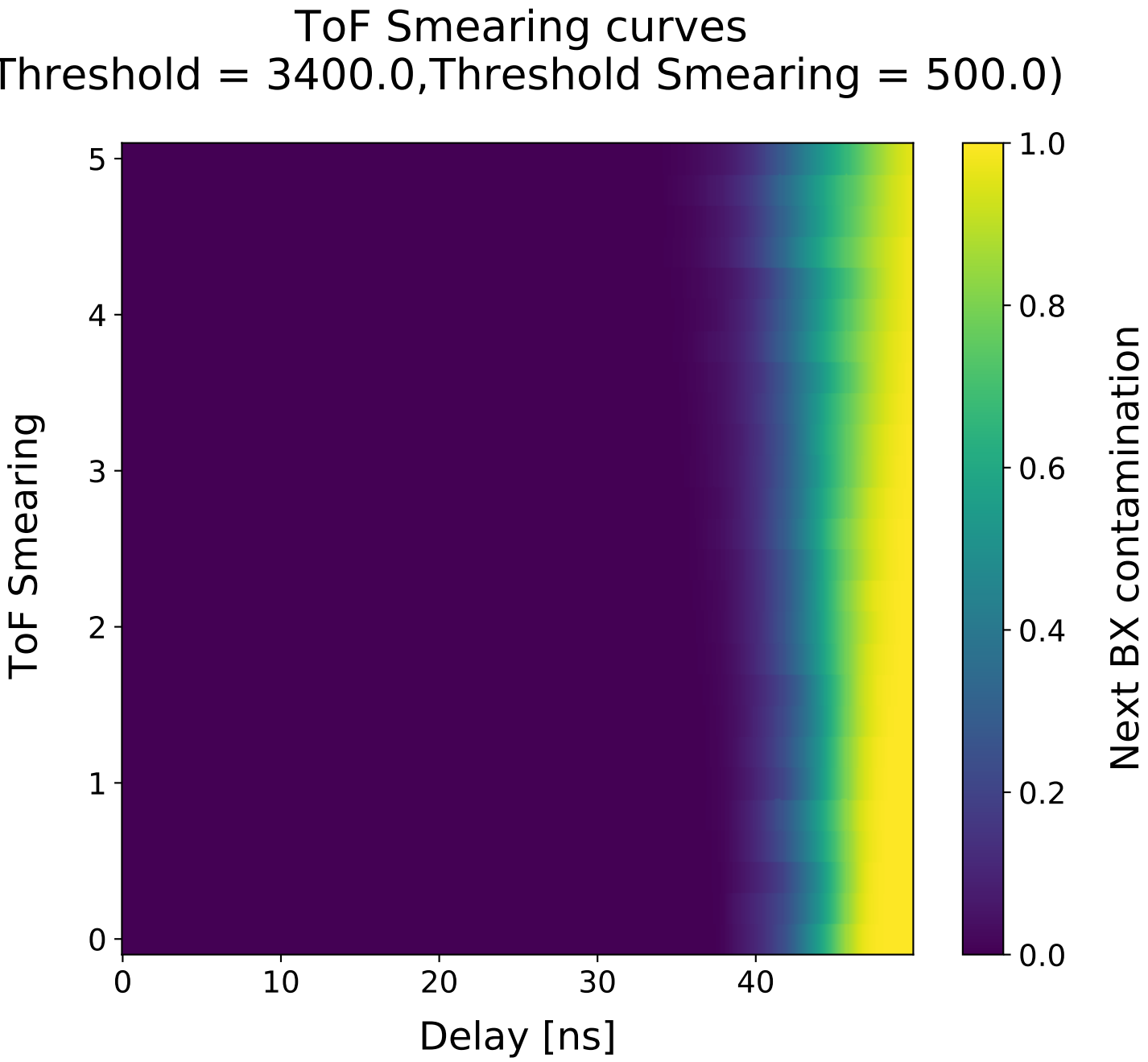

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

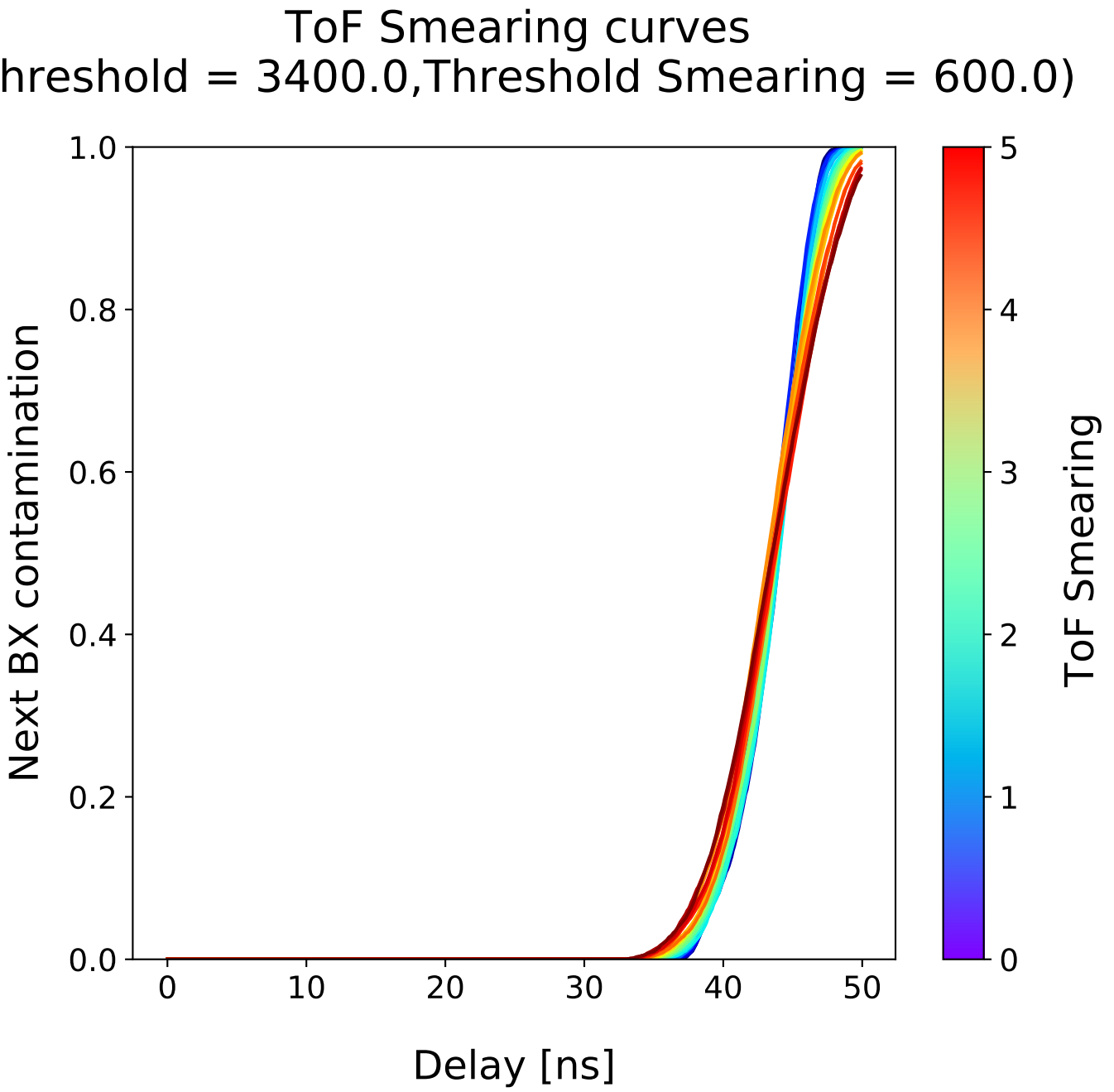

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

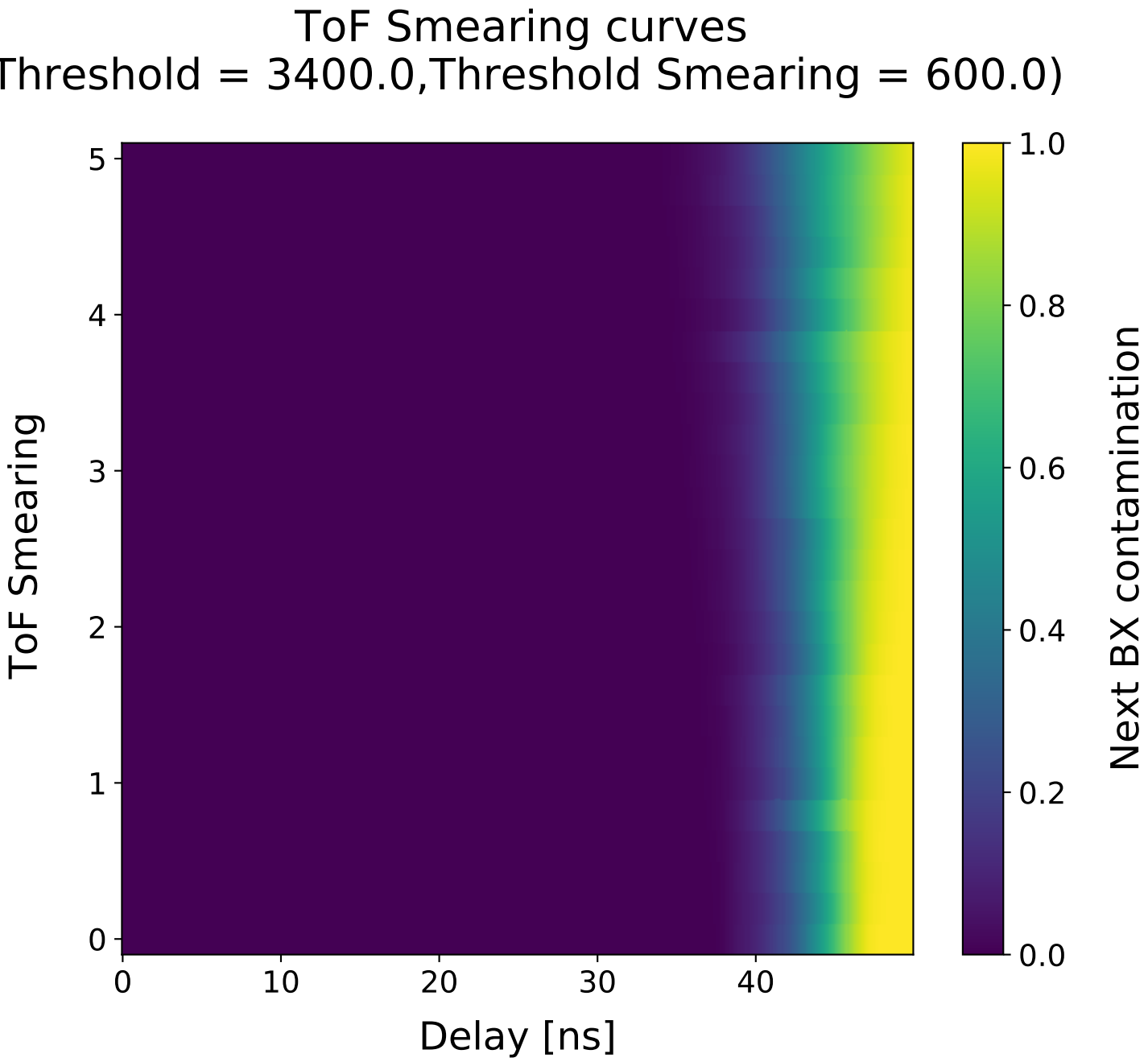

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

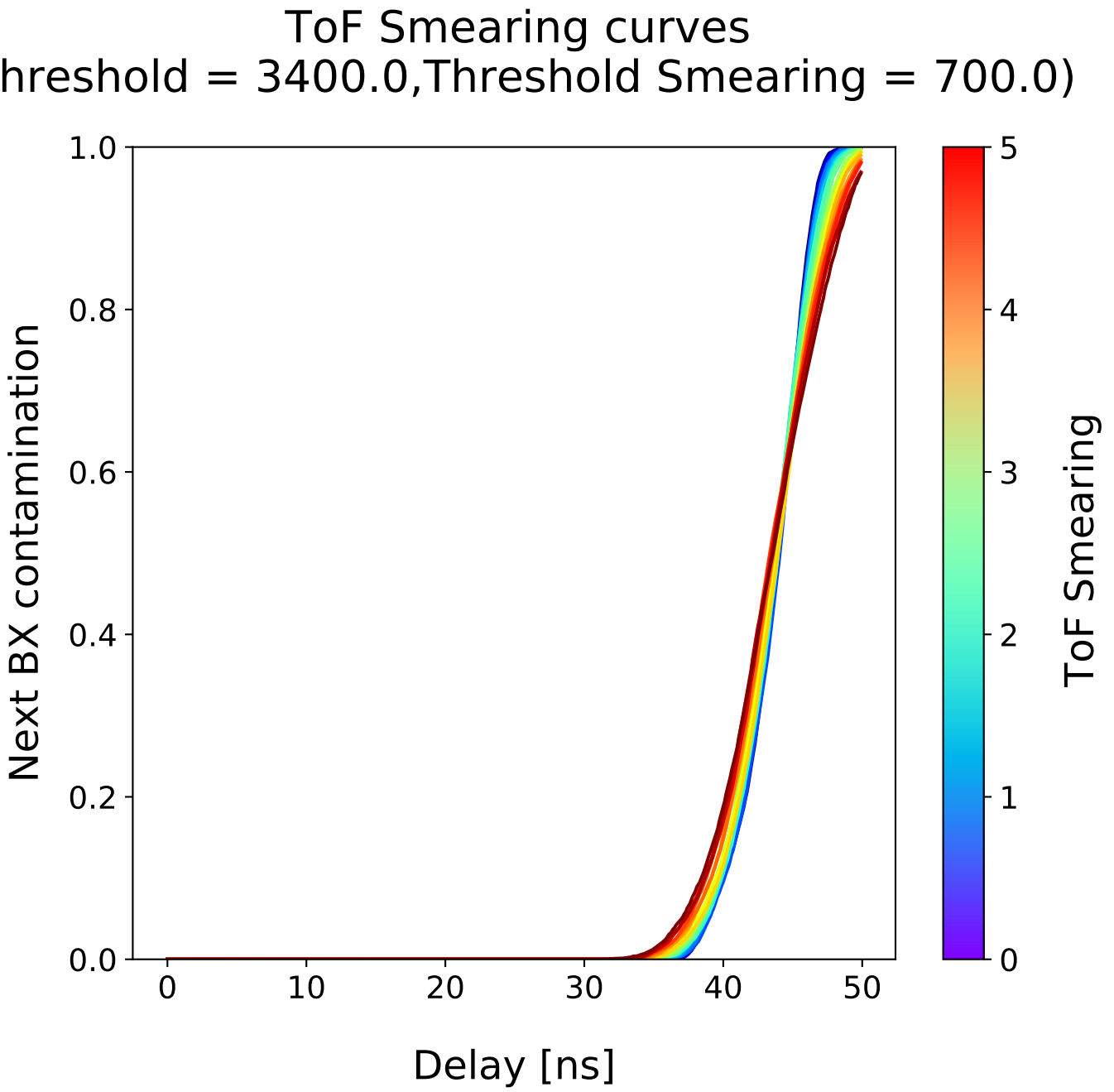

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

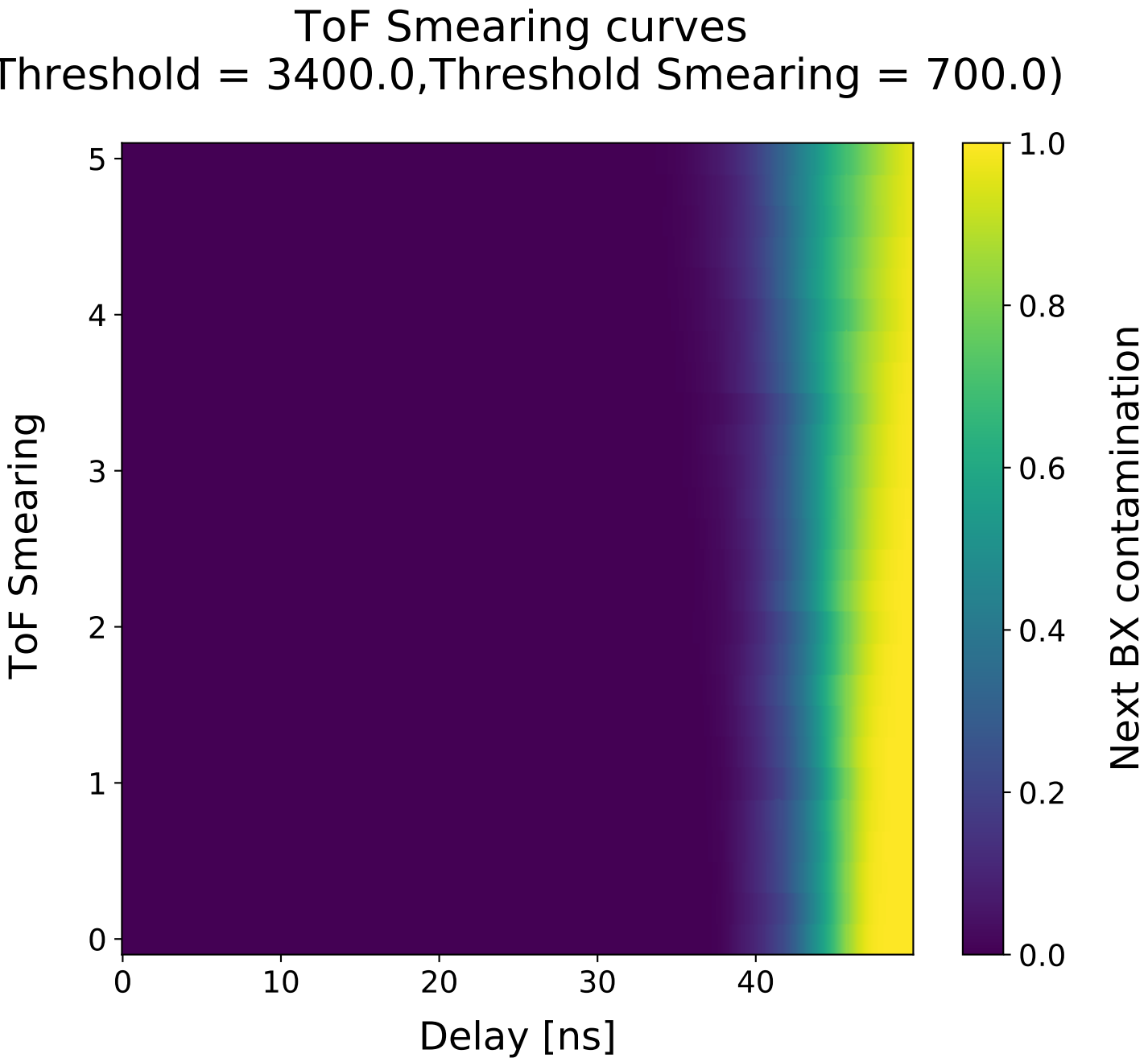

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

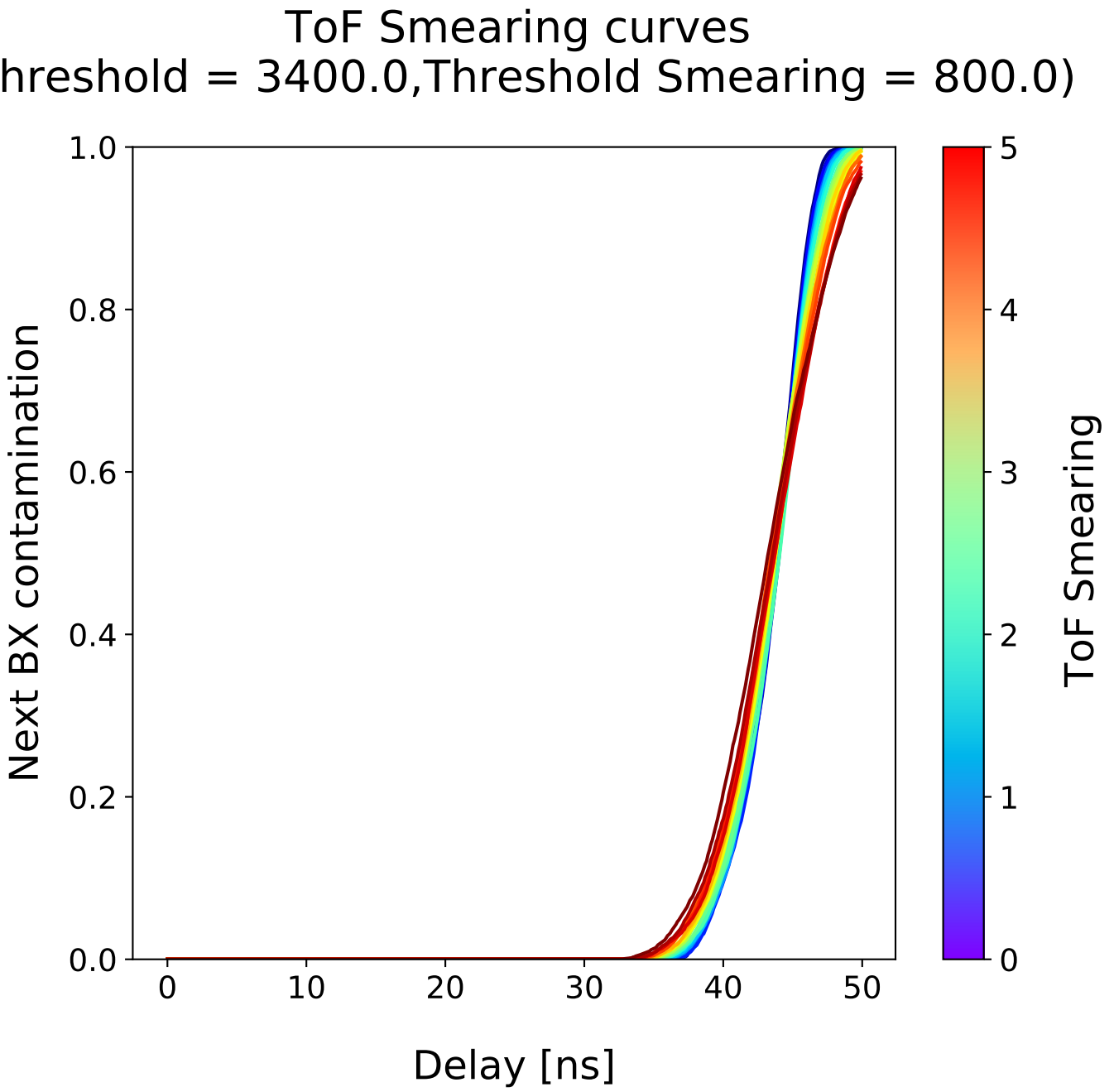

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

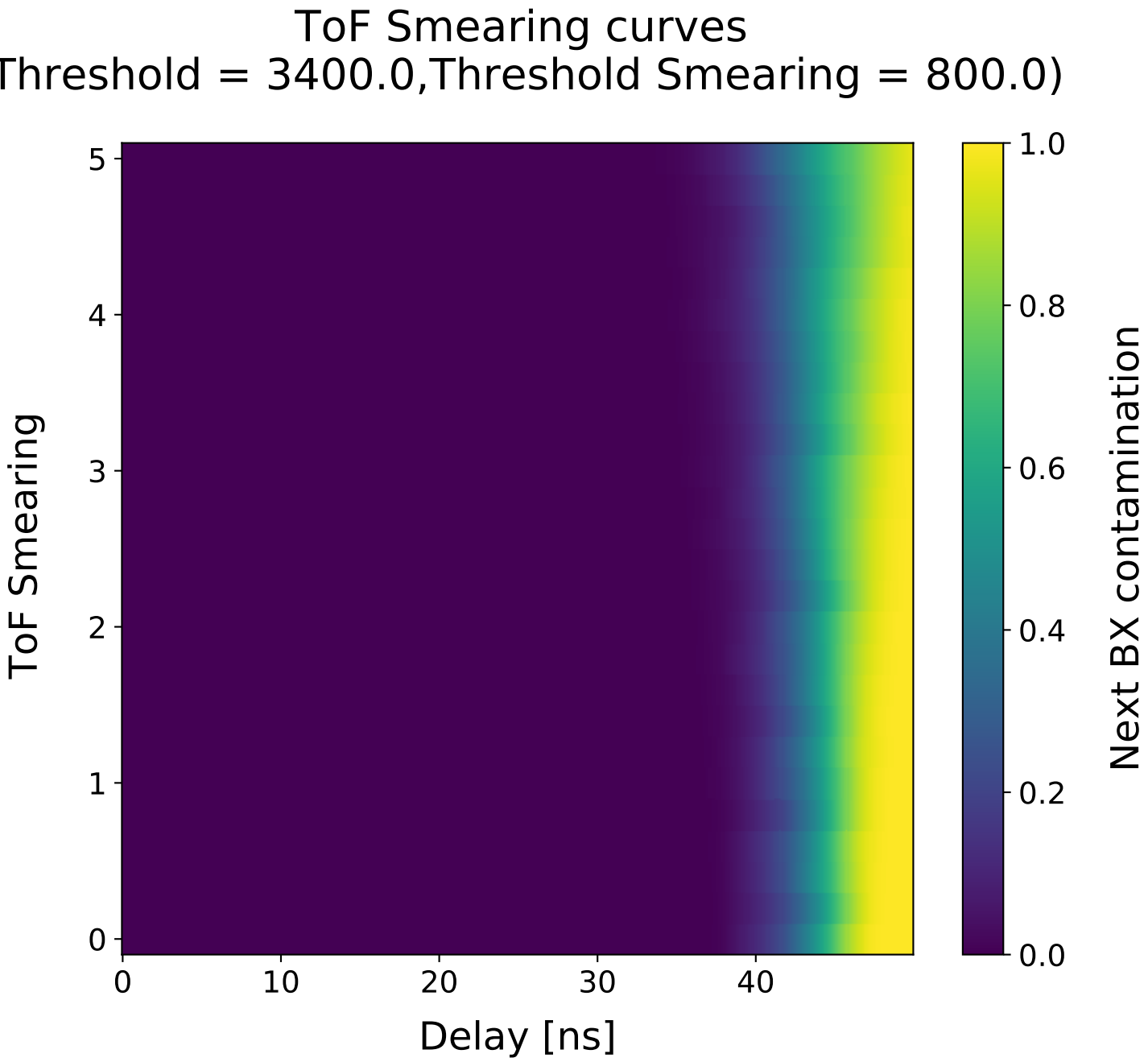

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

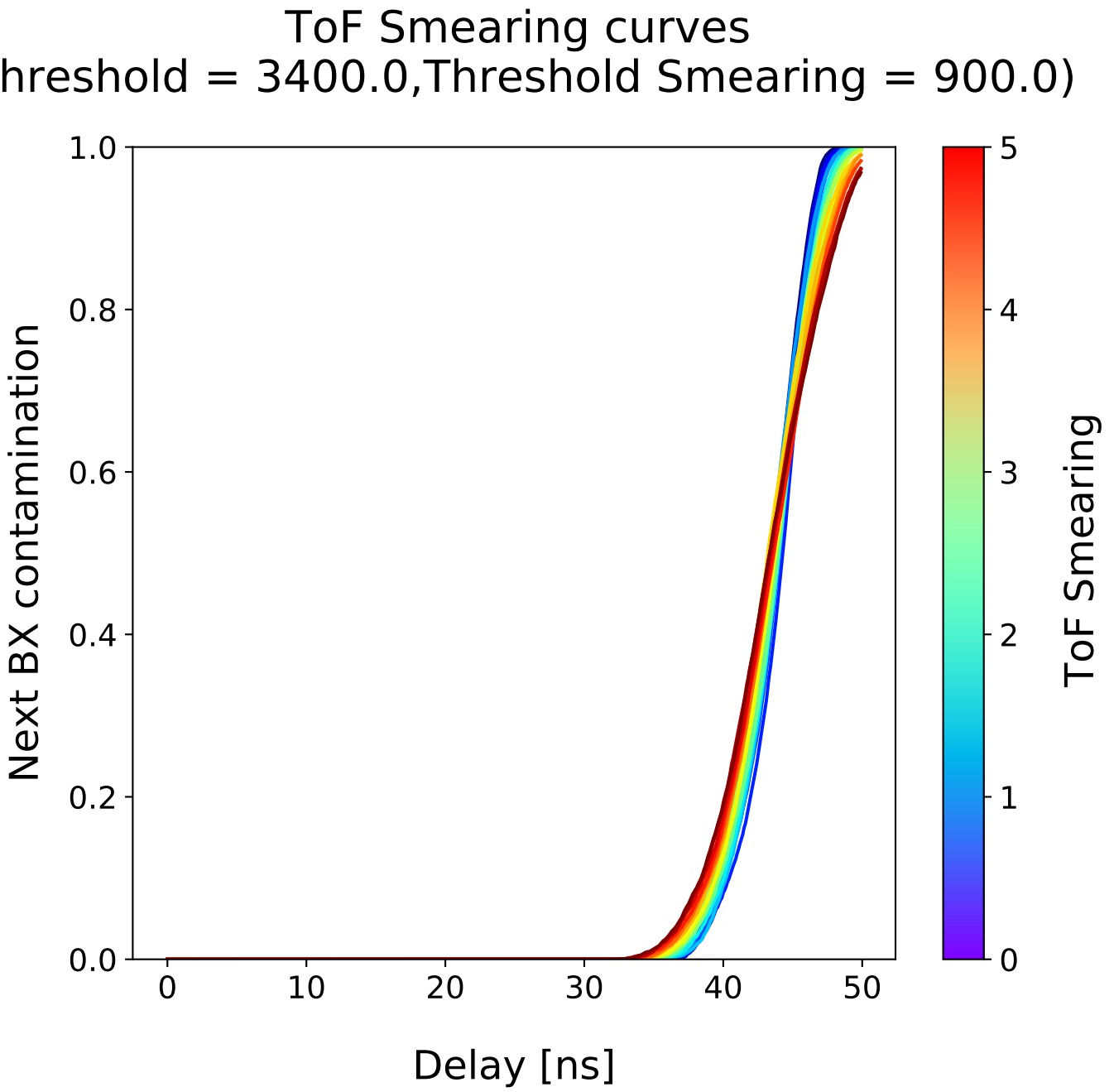

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

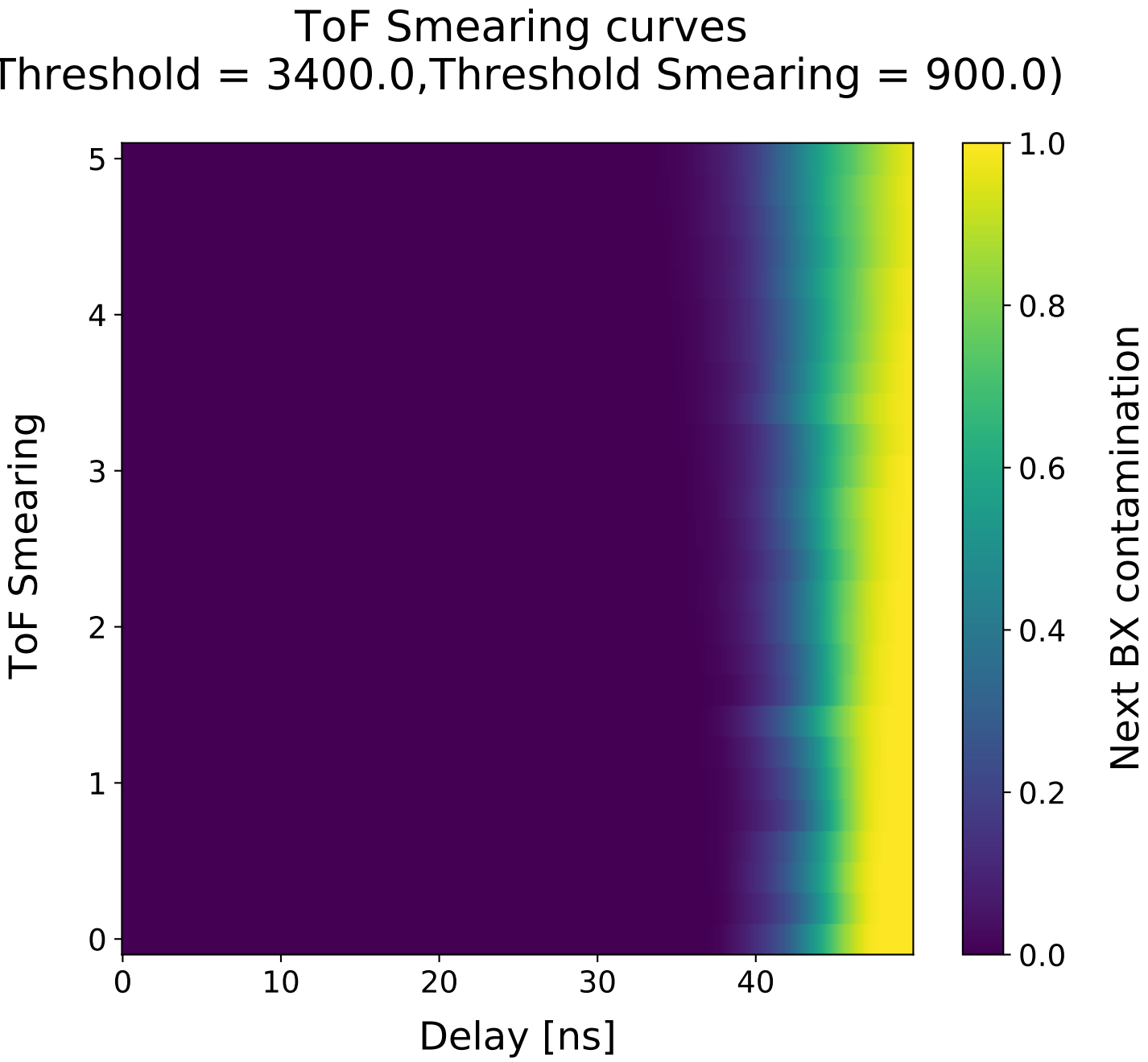

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

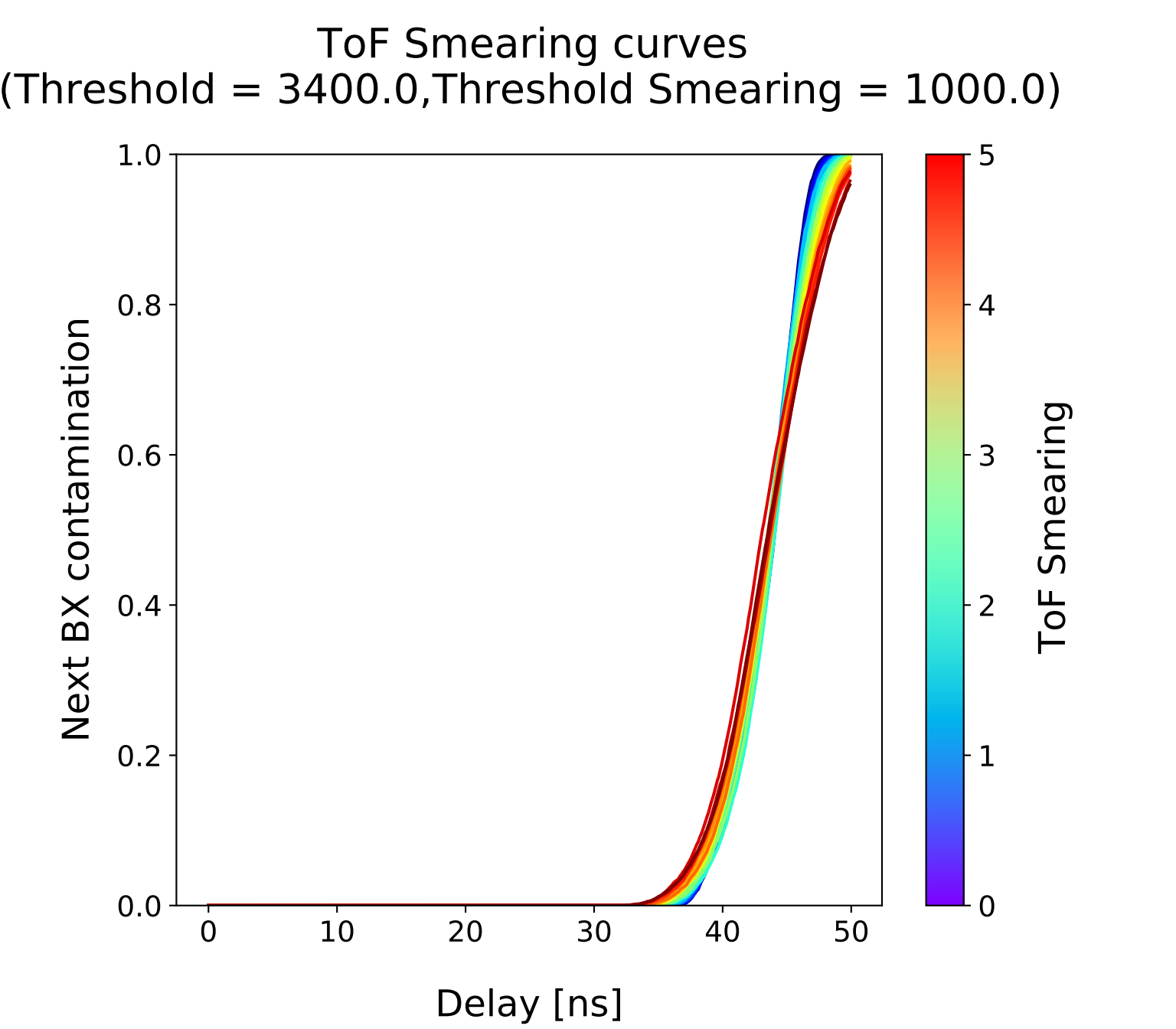

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

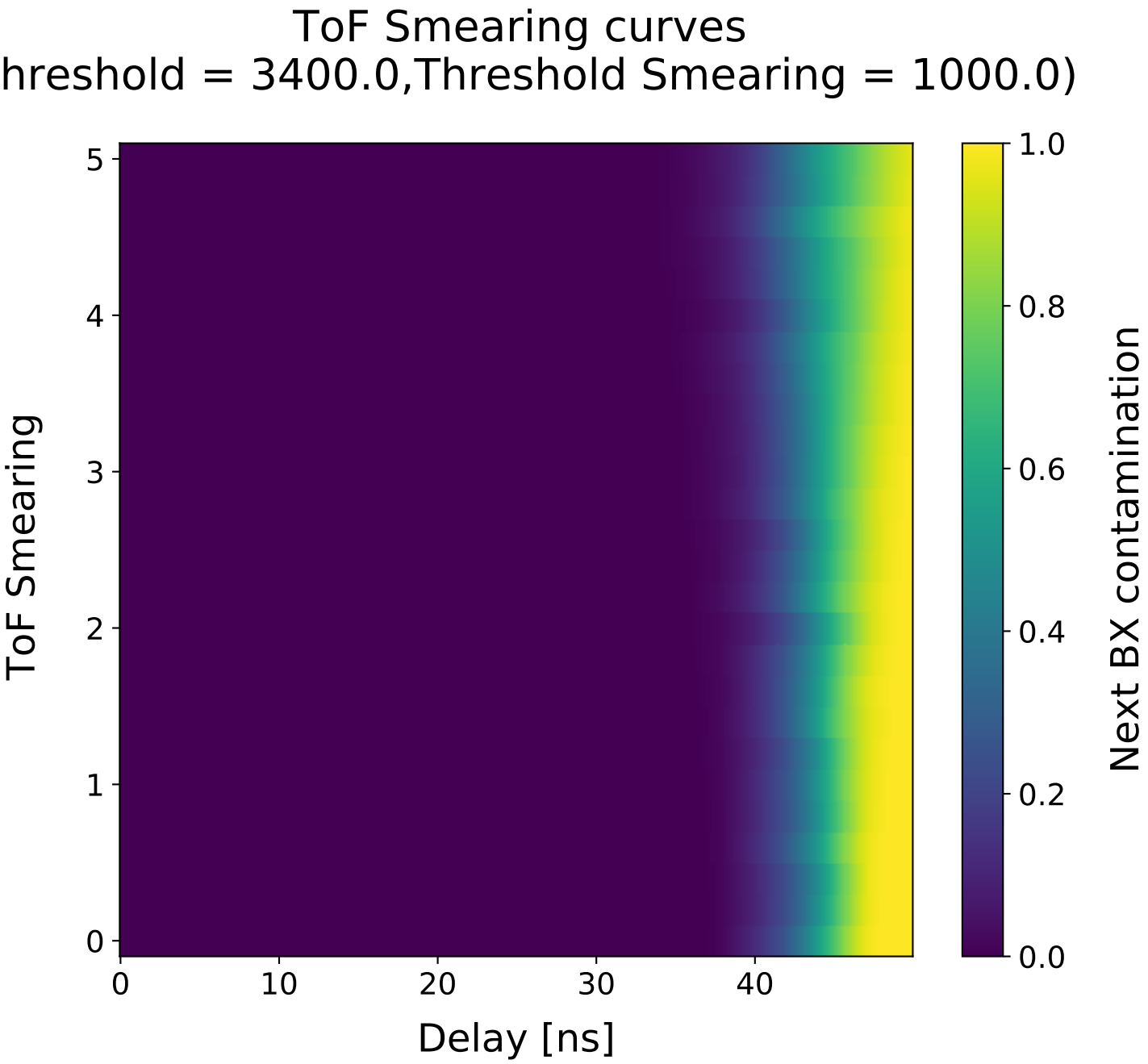

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

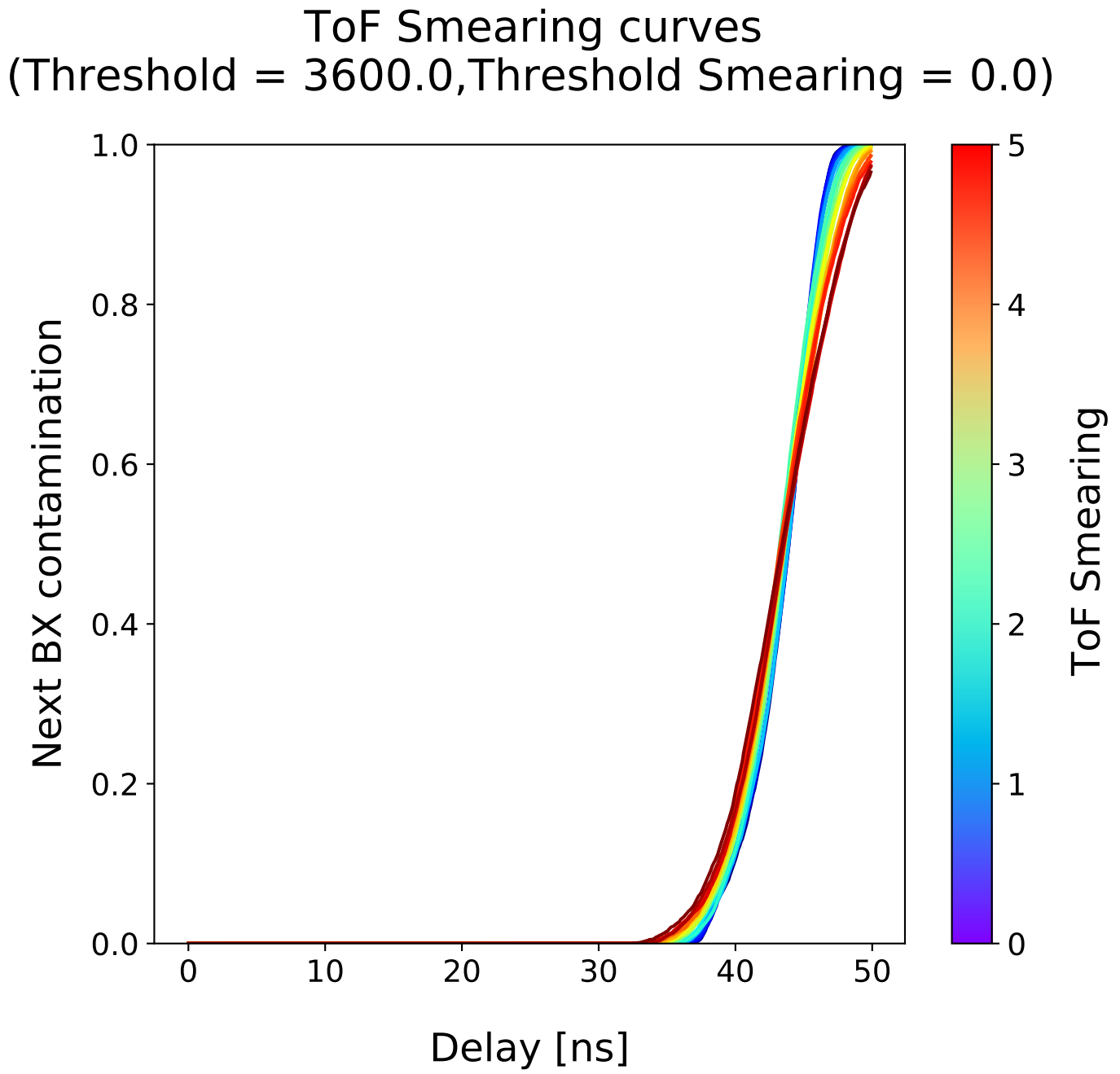

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

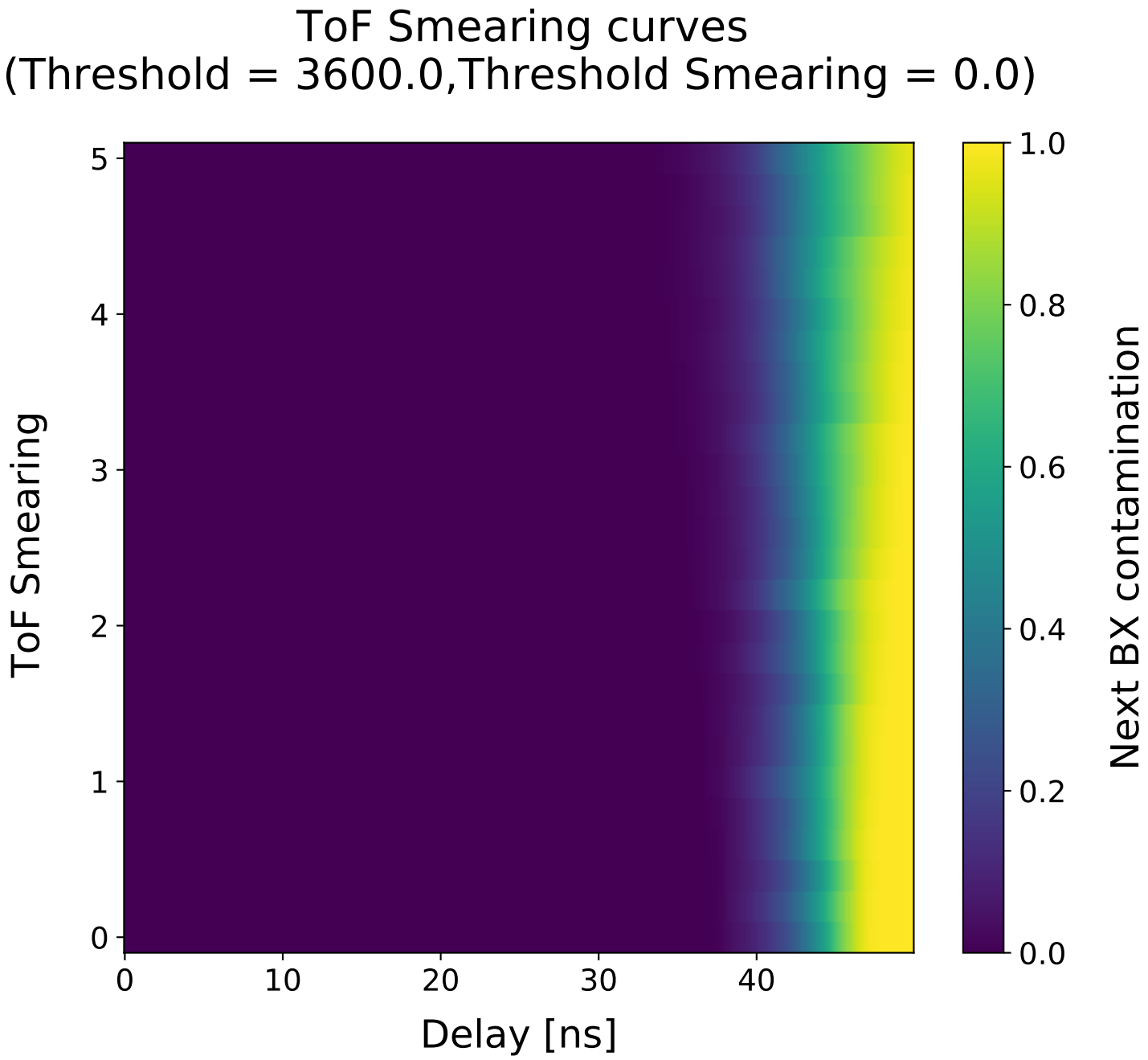

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

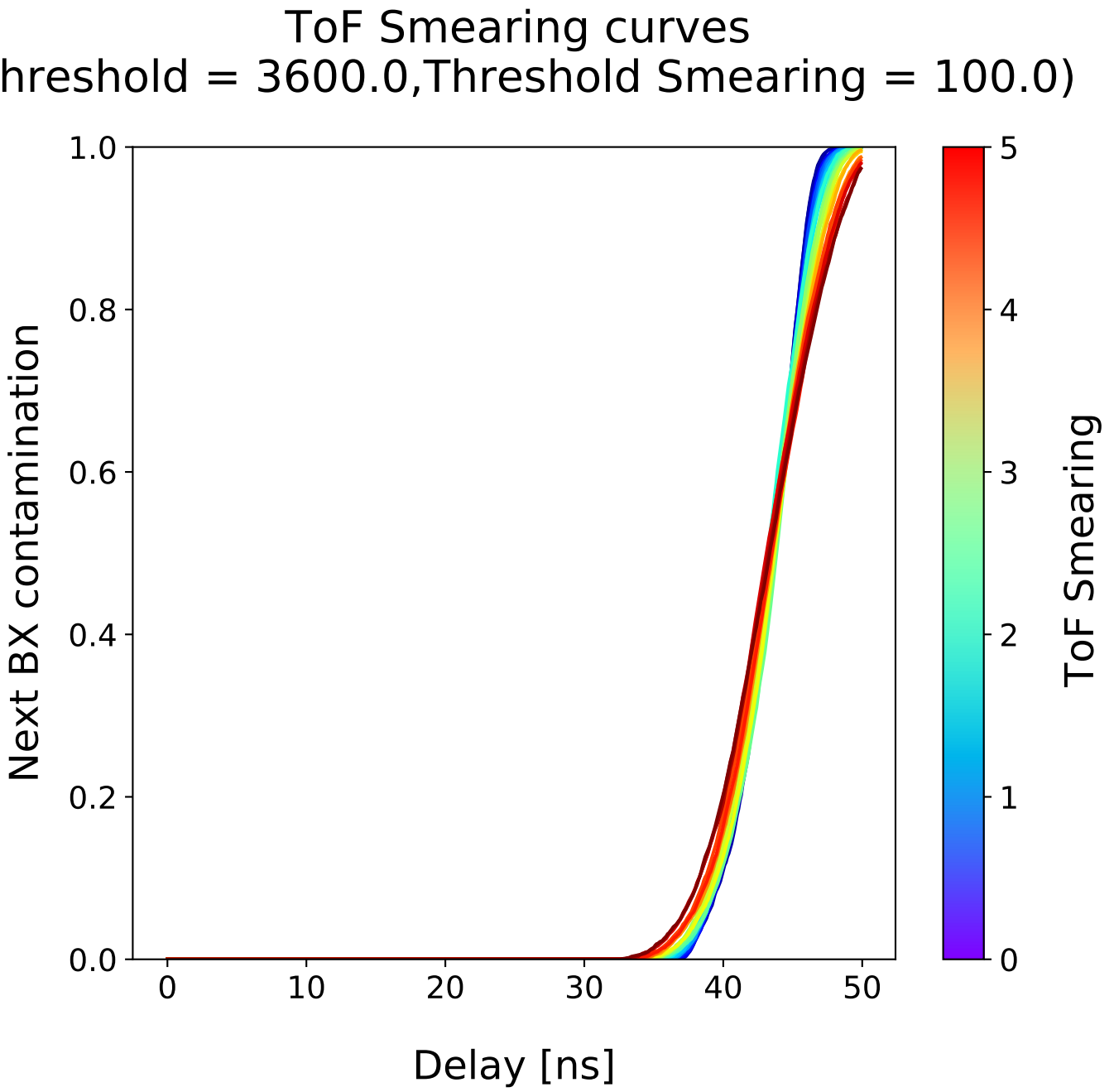

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

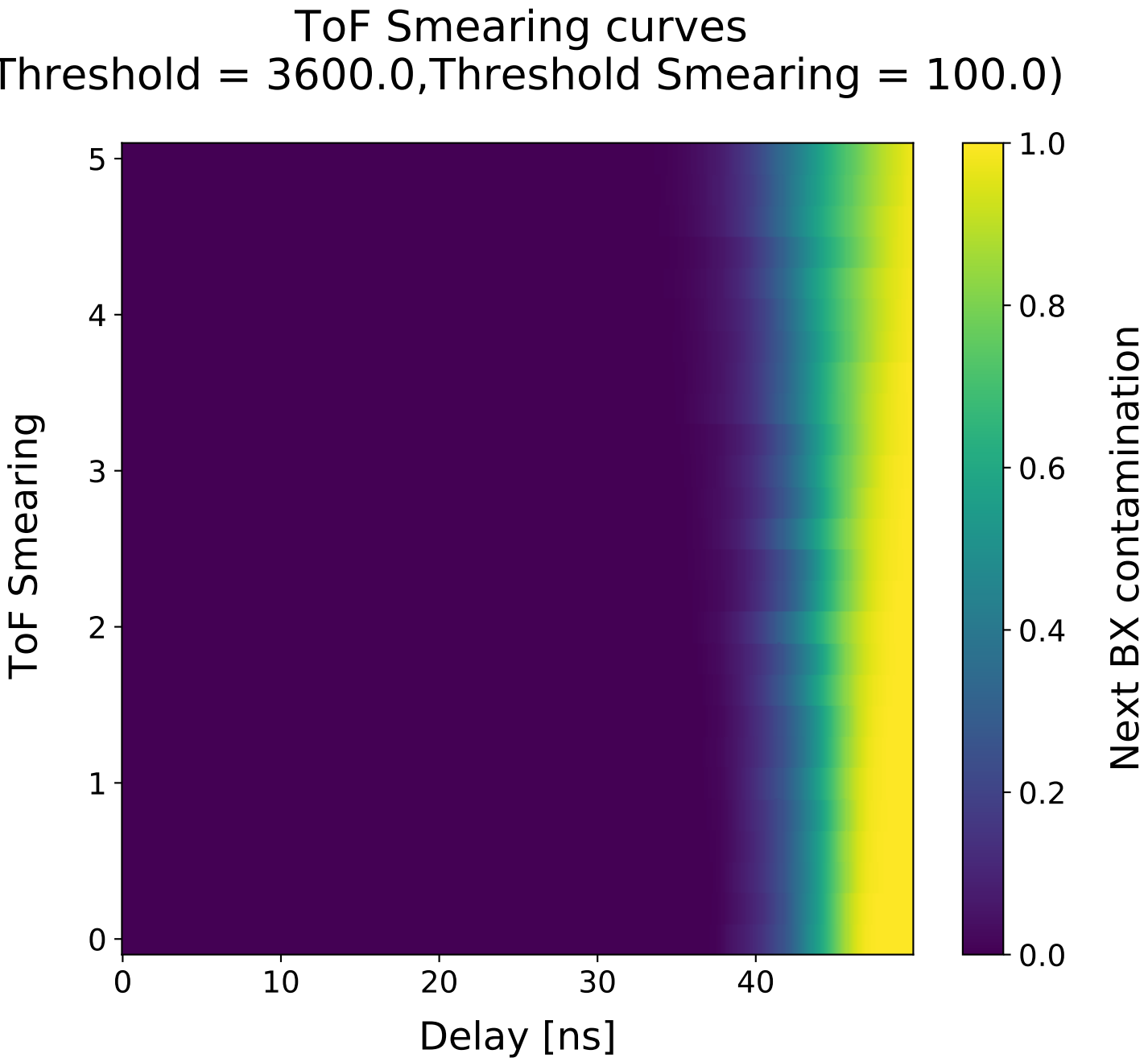

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

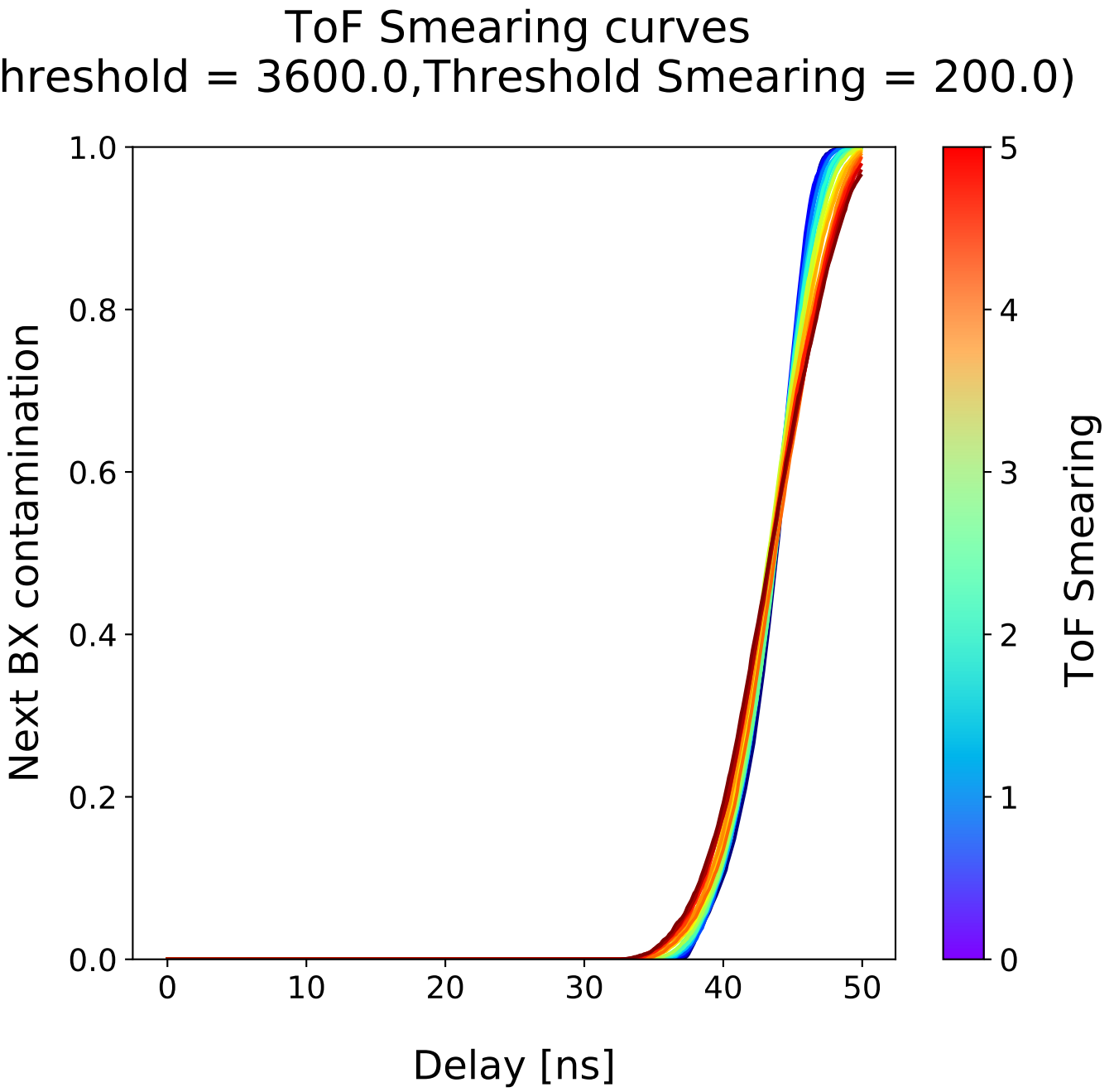

ToF Smearing curves
(Threshold = 3400.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

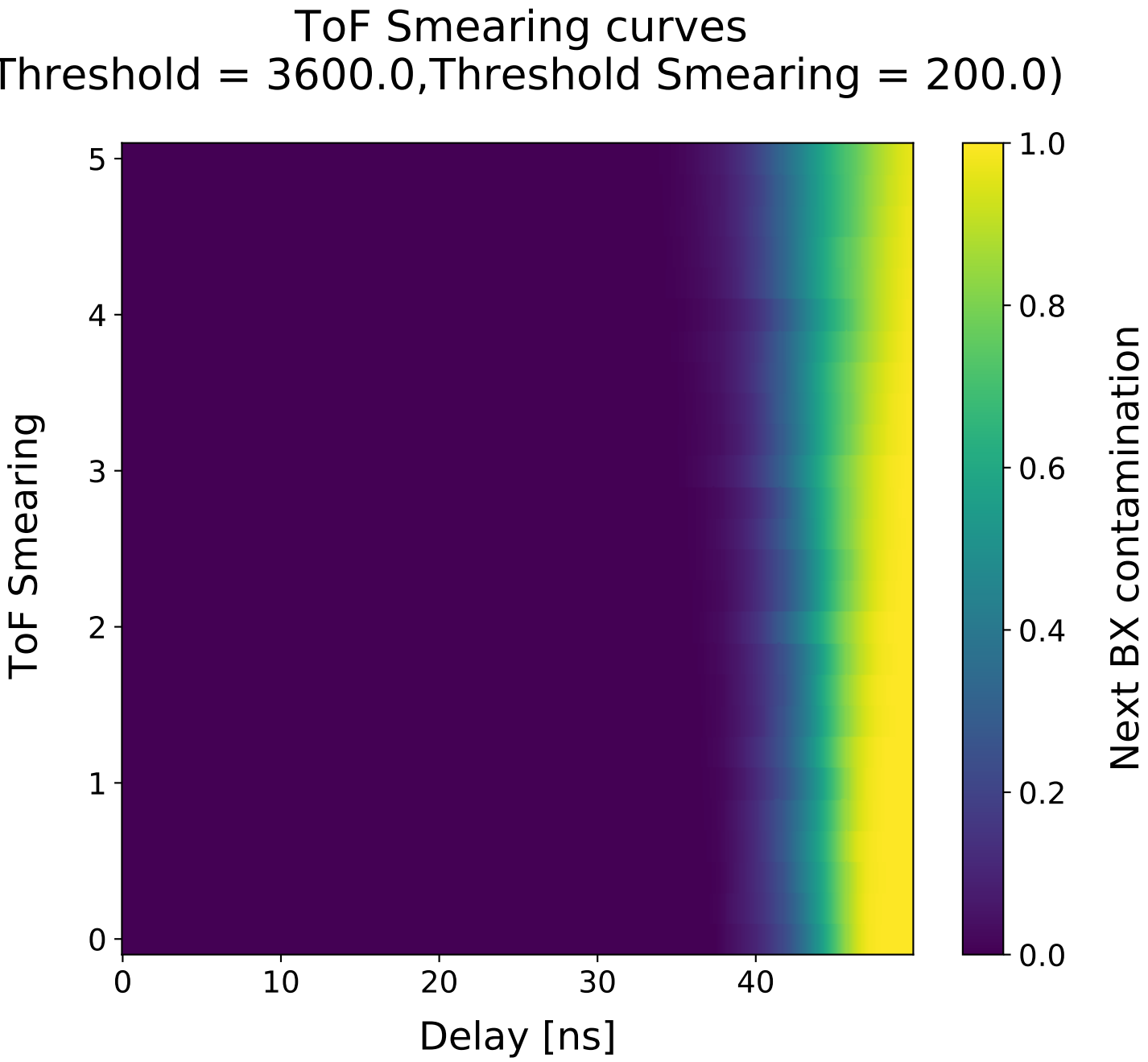

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

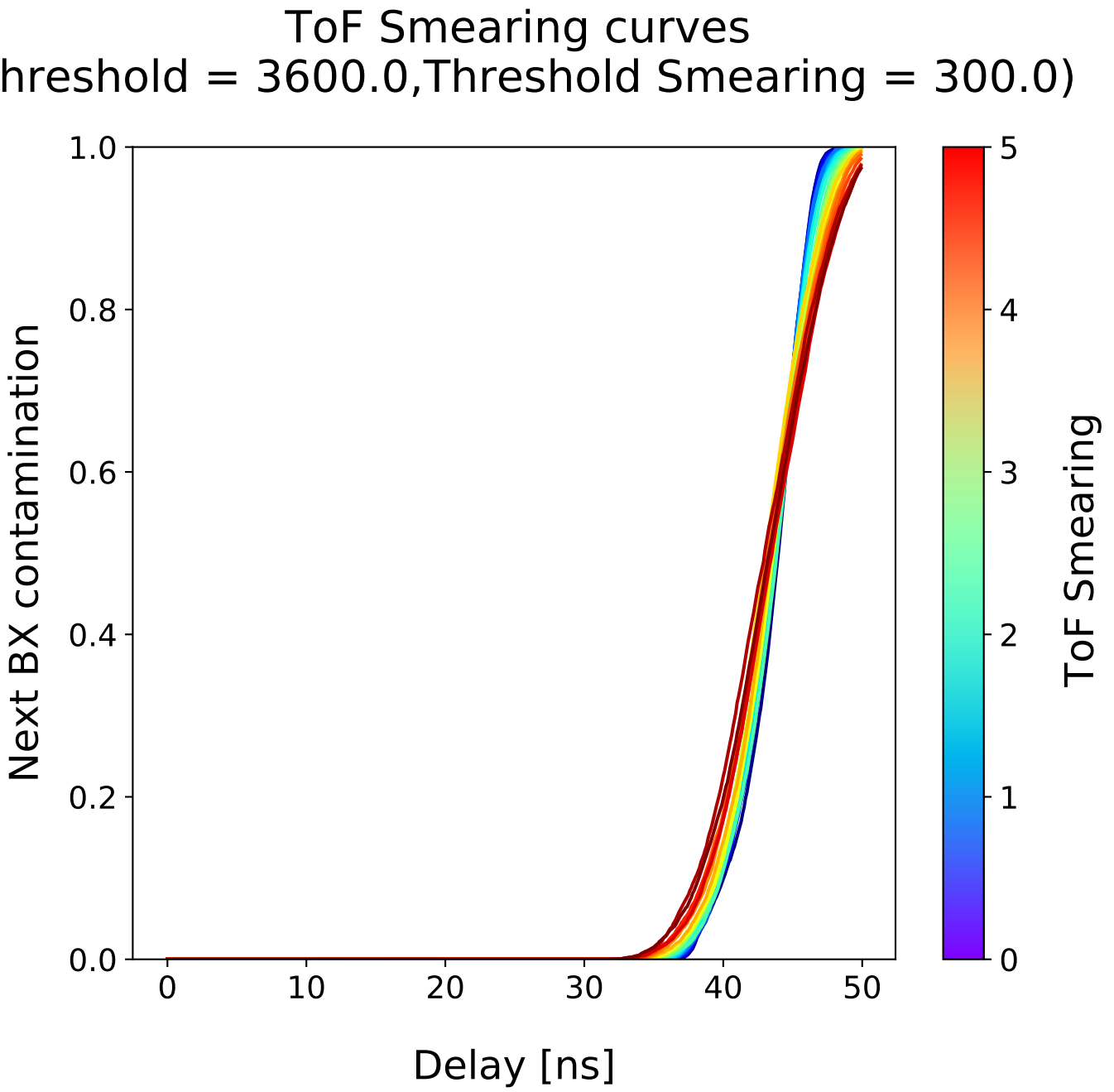

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

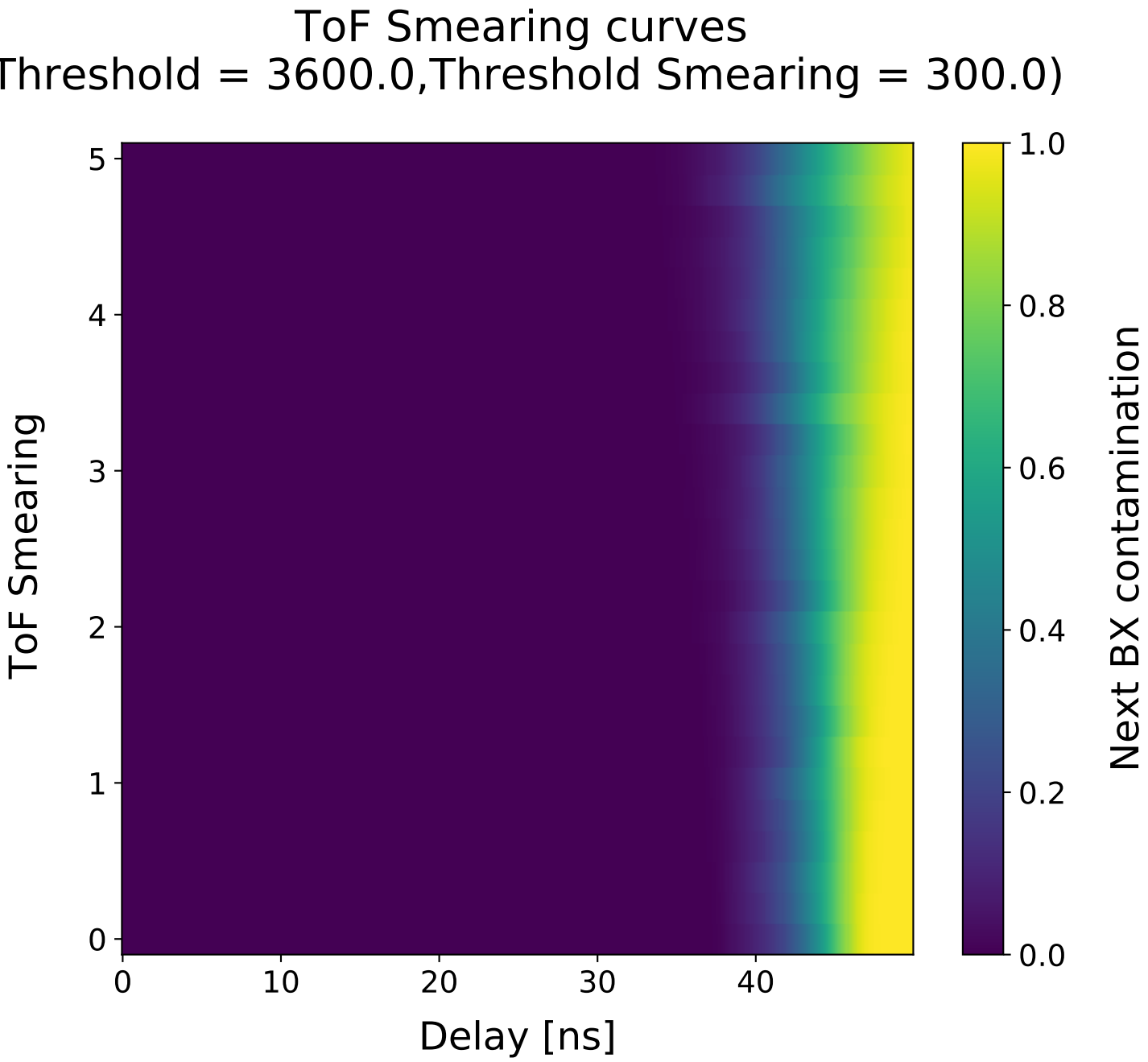

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
5
4
3
2
1
0

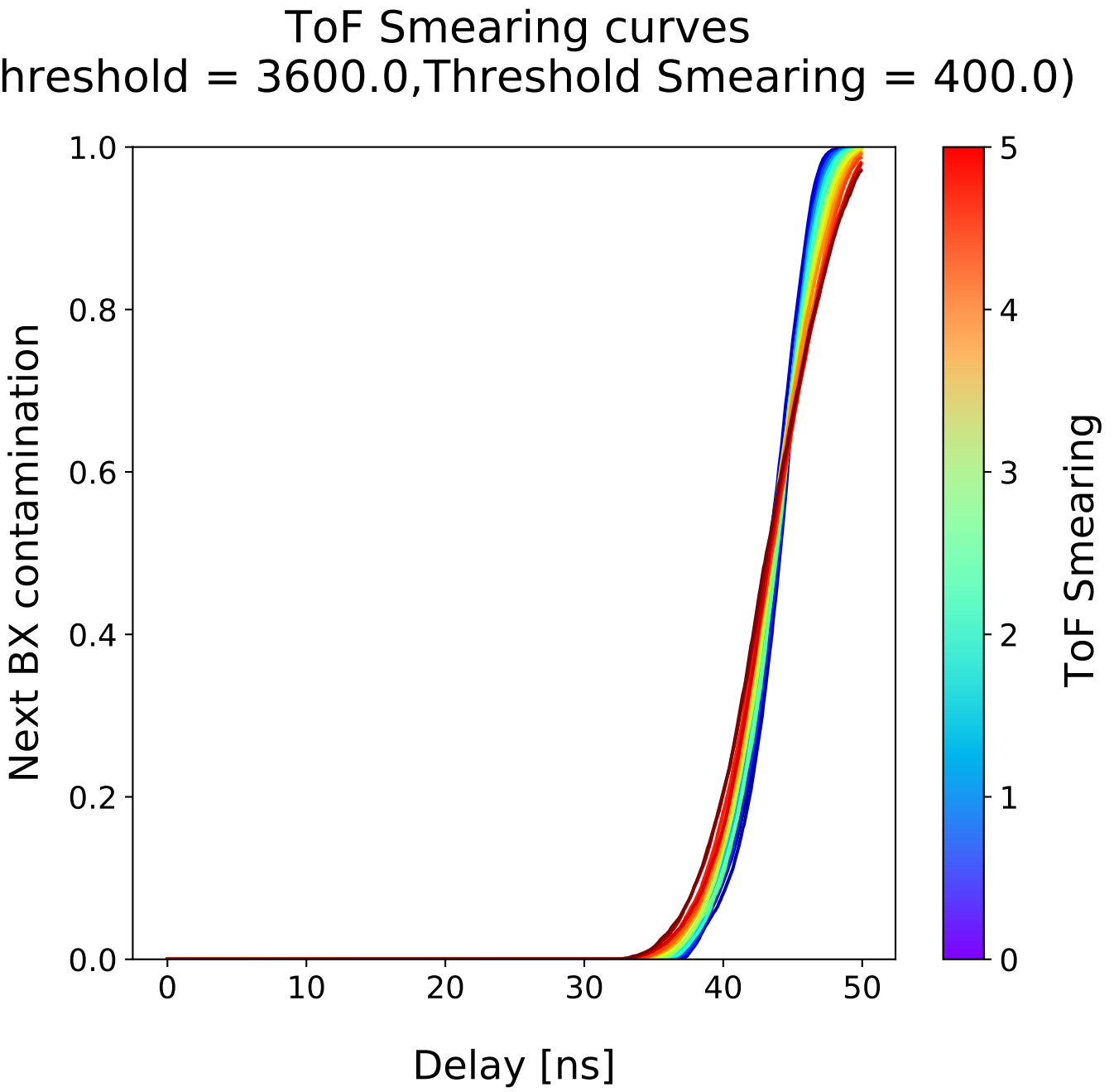

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

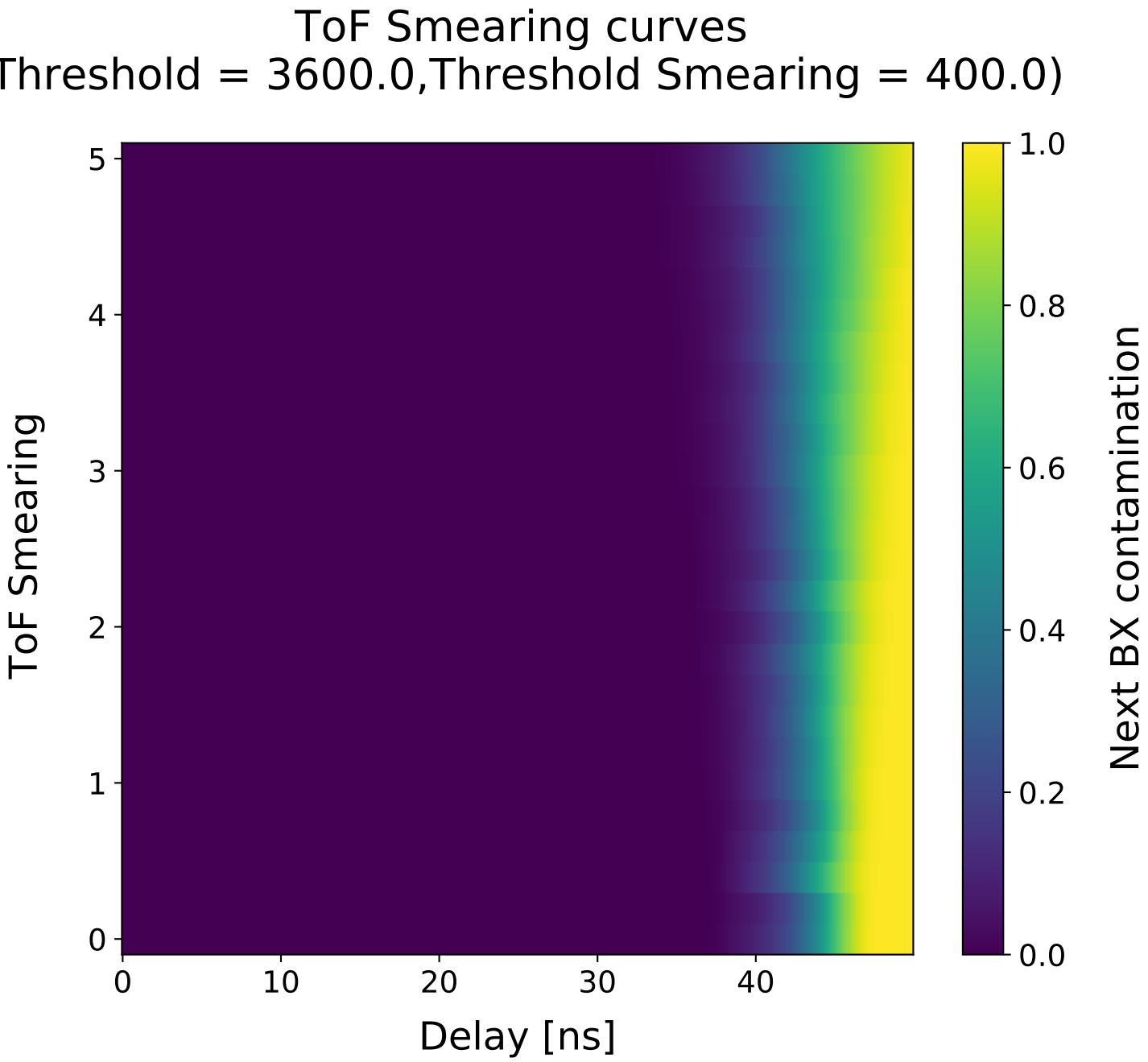

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

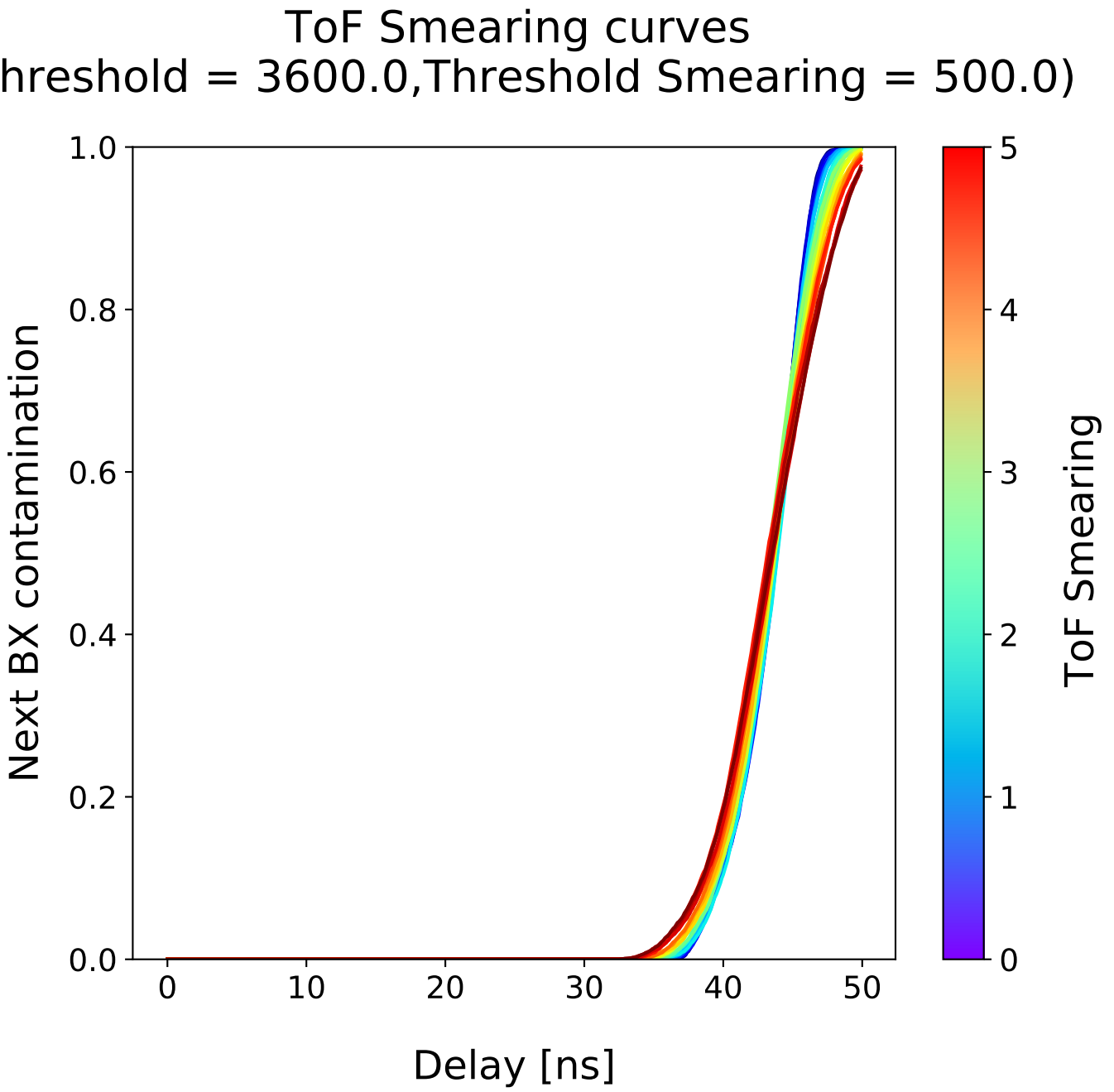

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

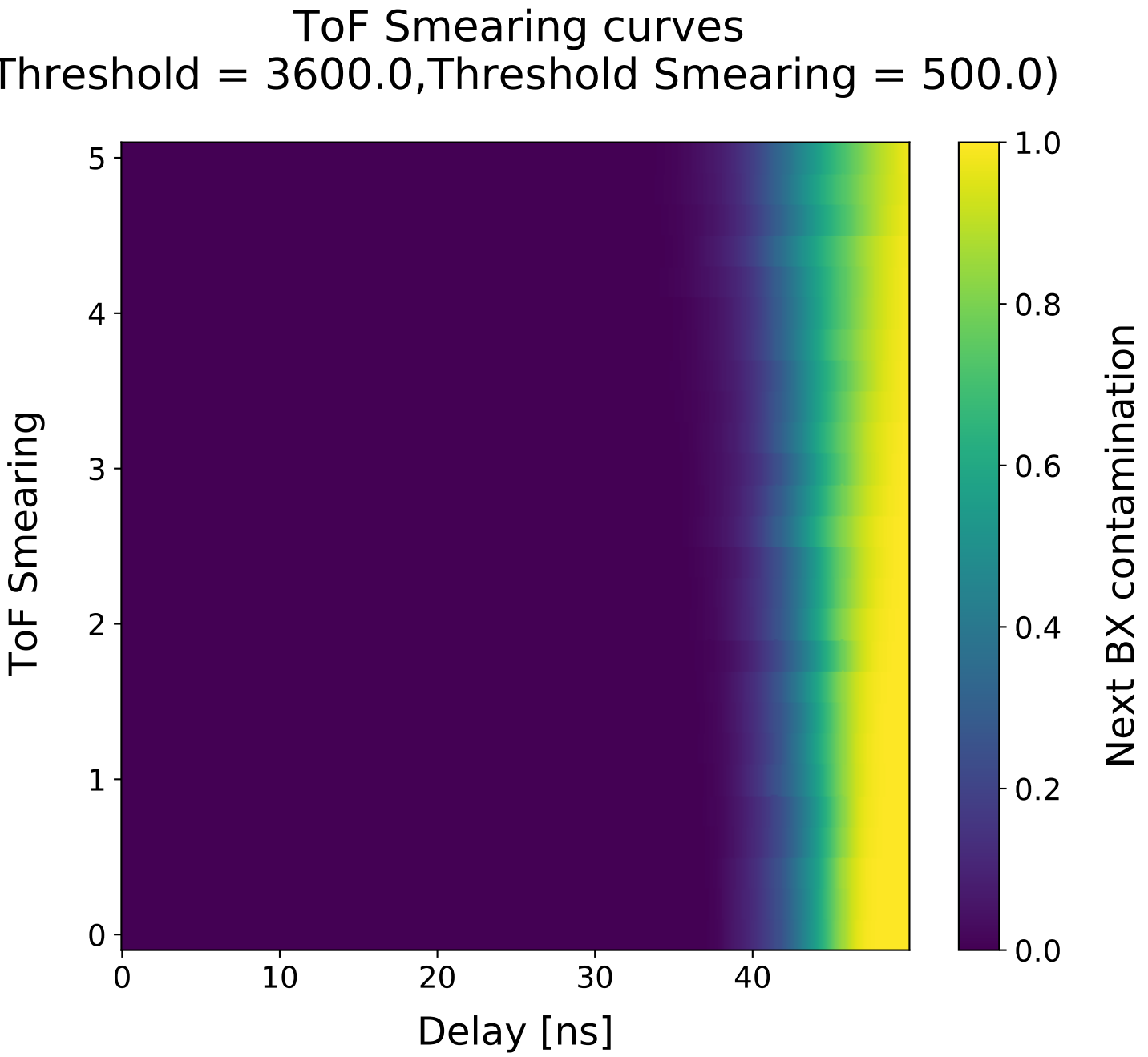

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

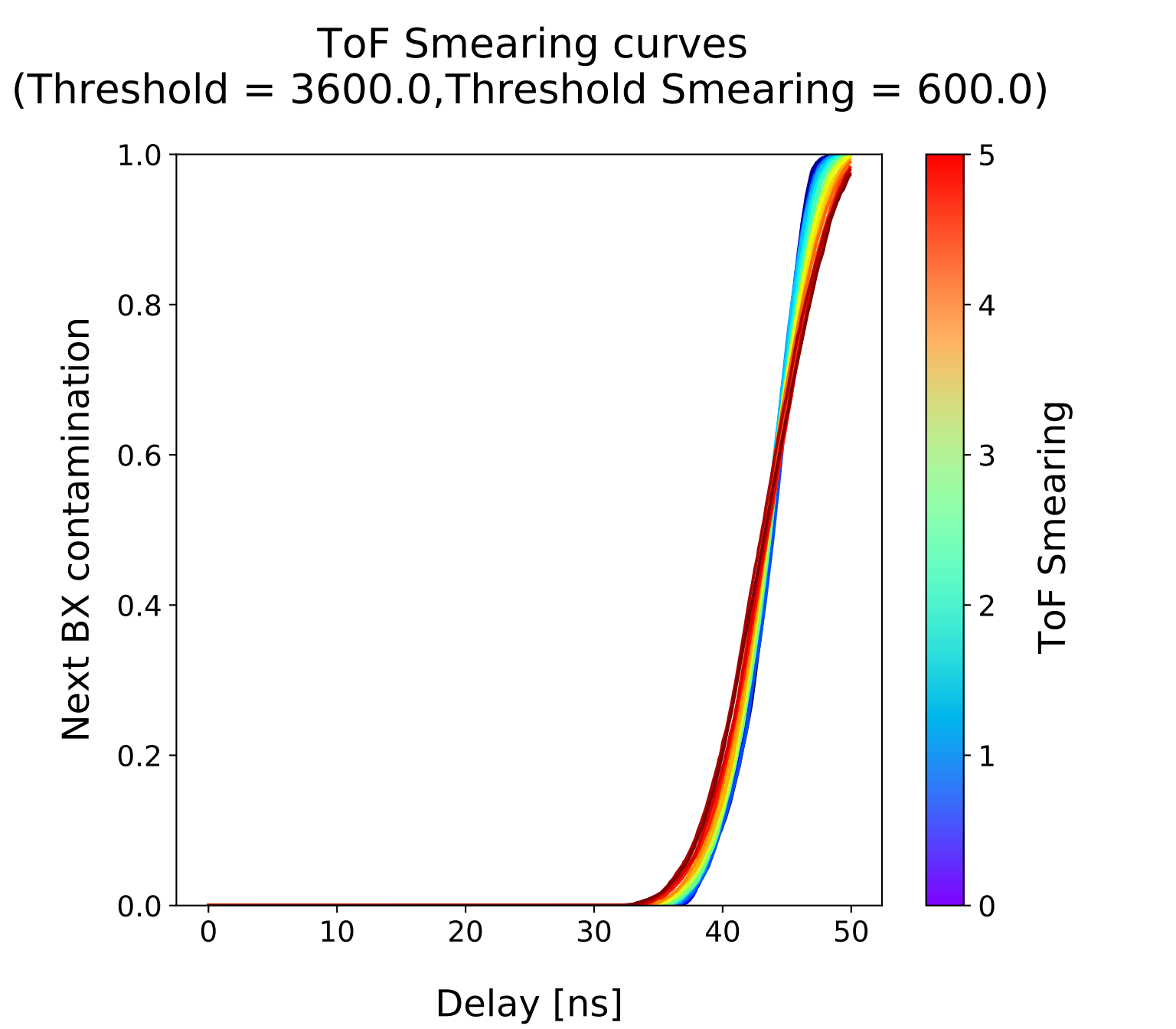

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

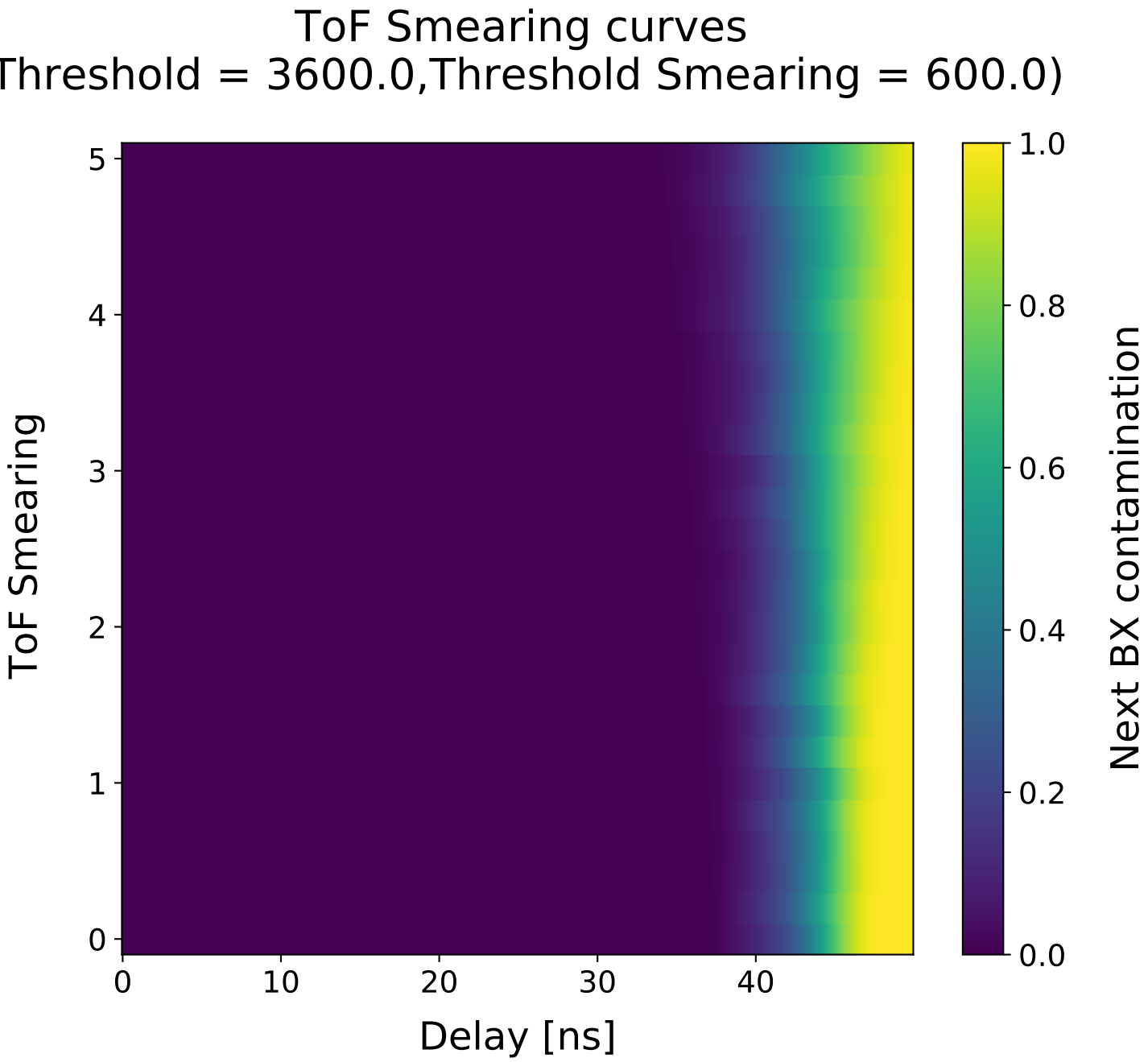

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

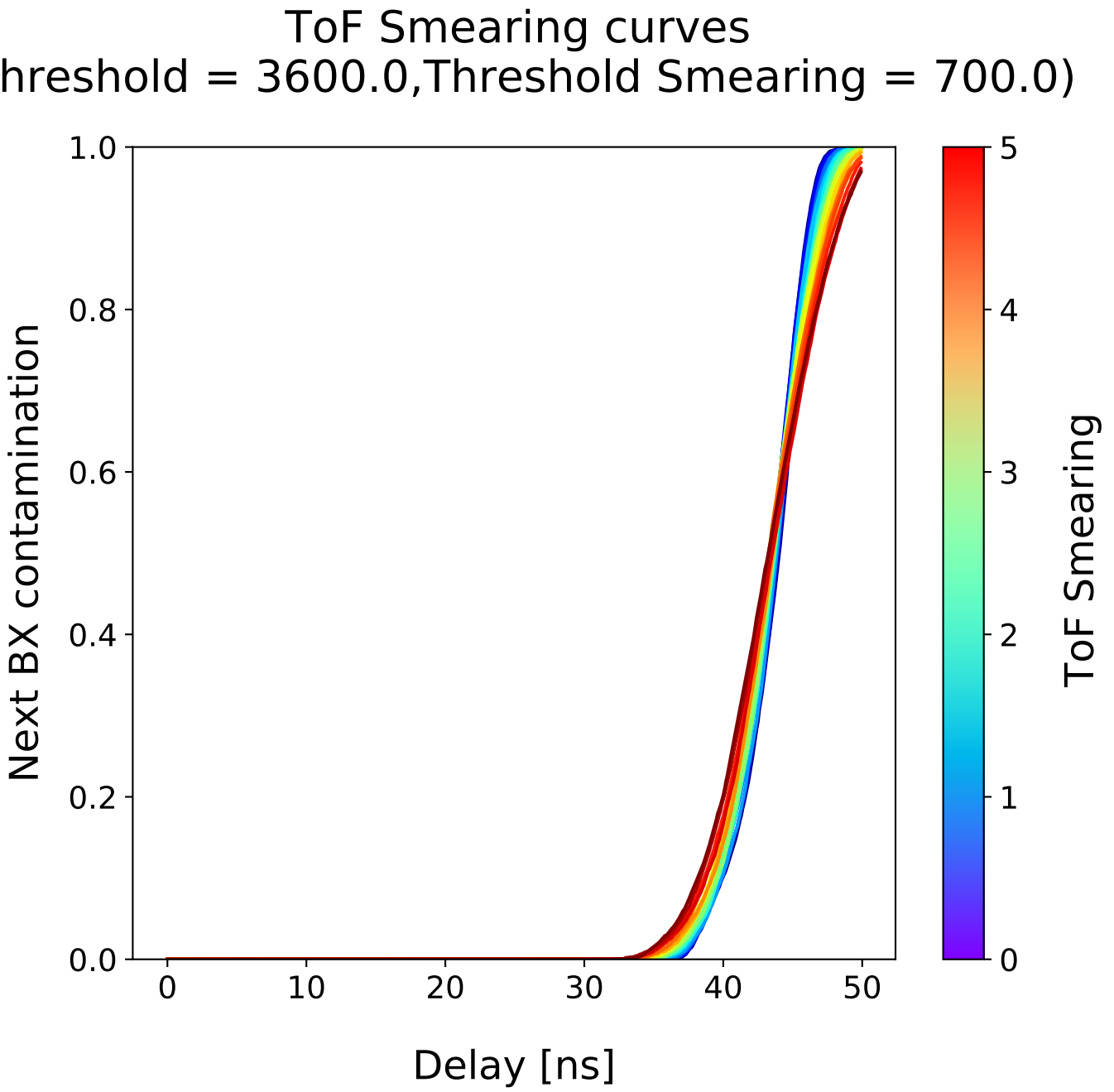

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

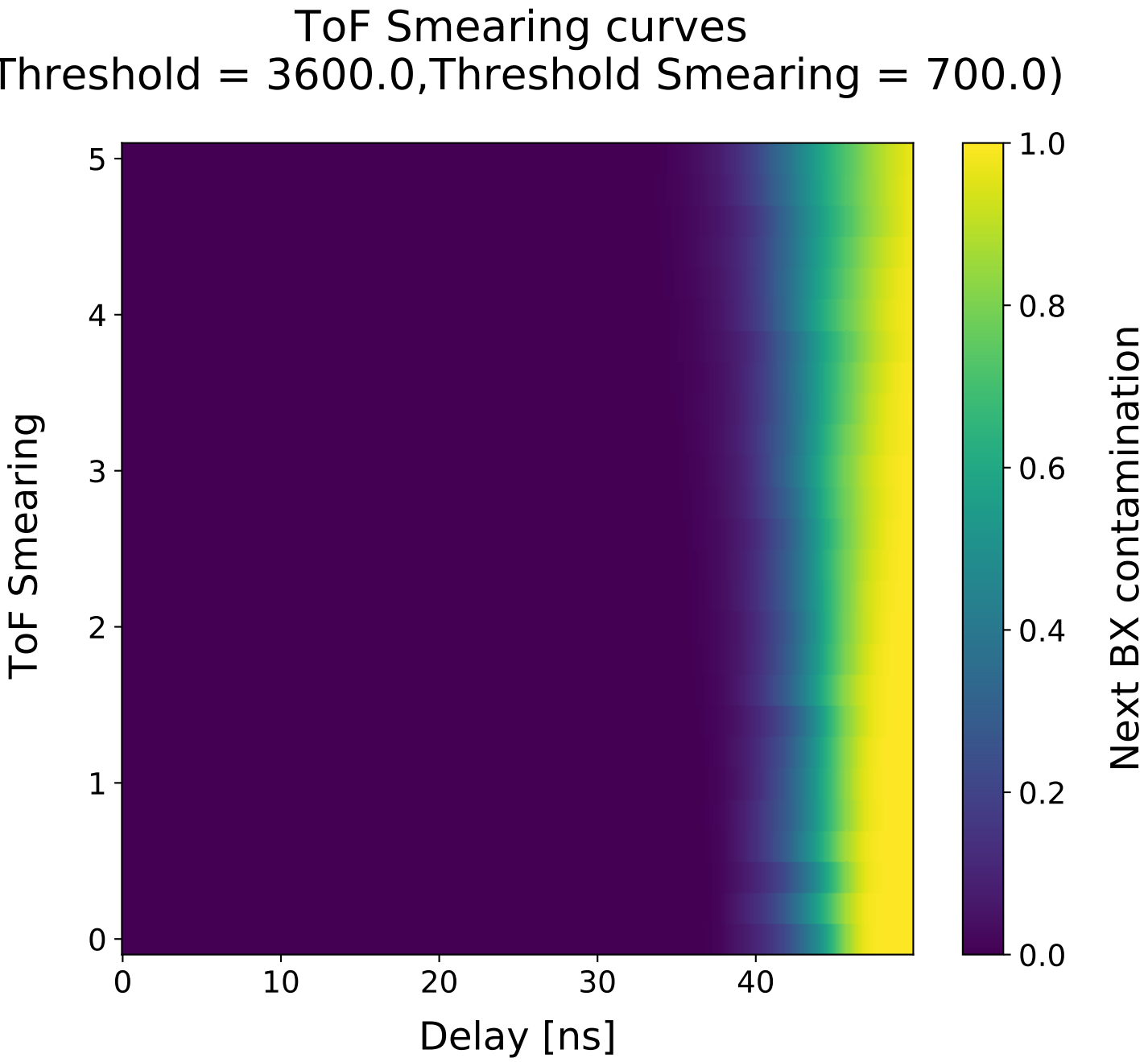

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

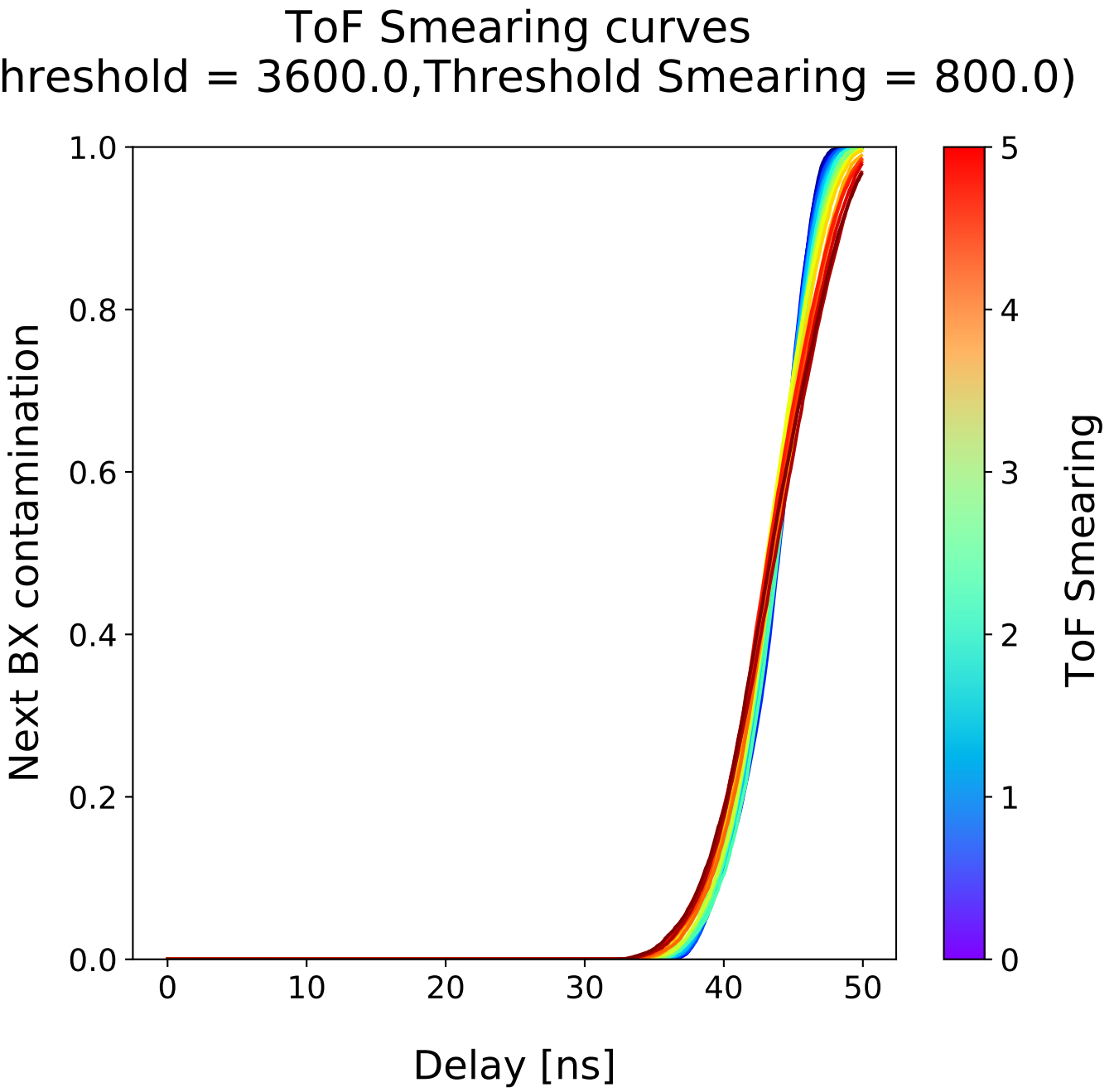

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

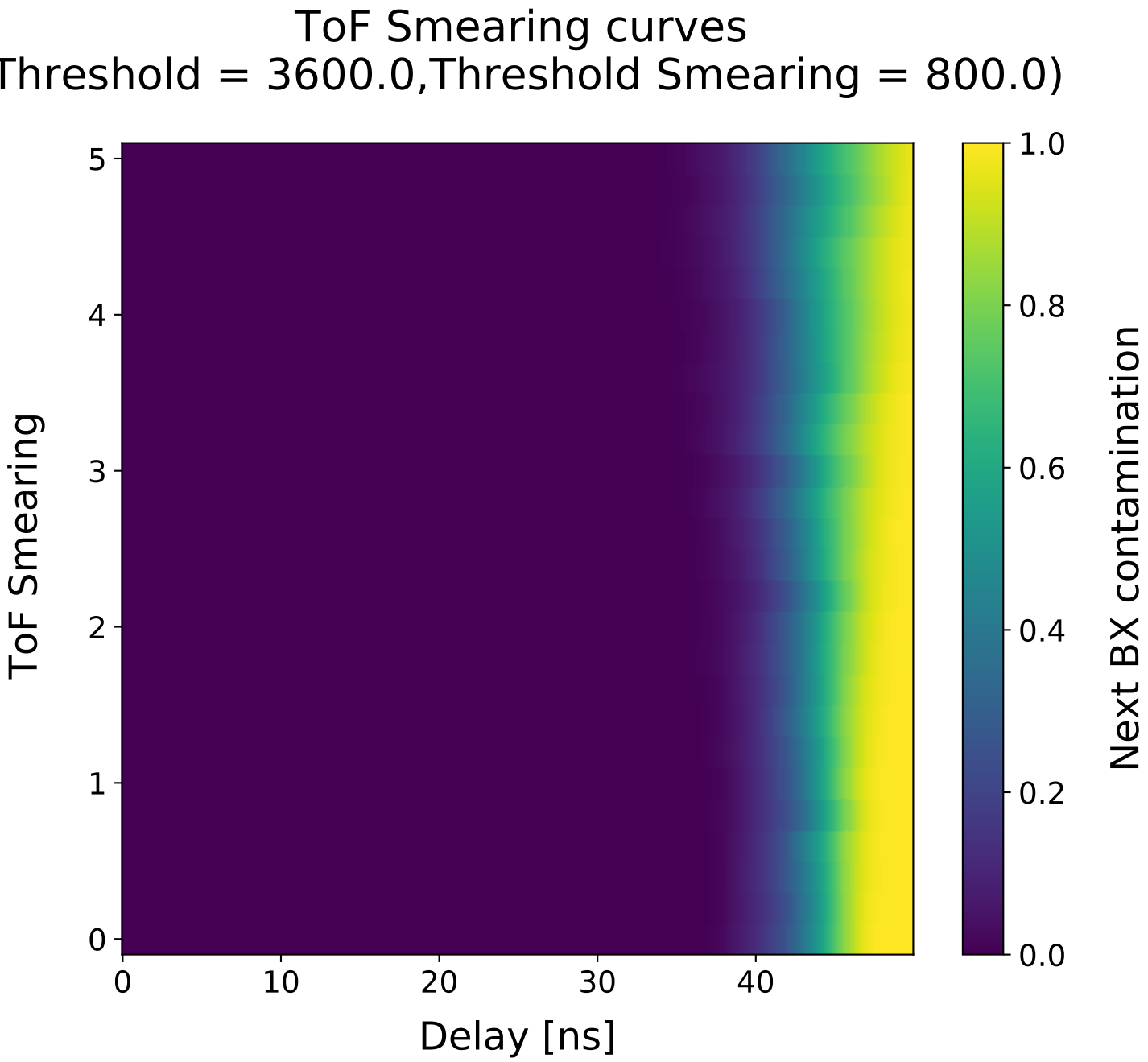

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

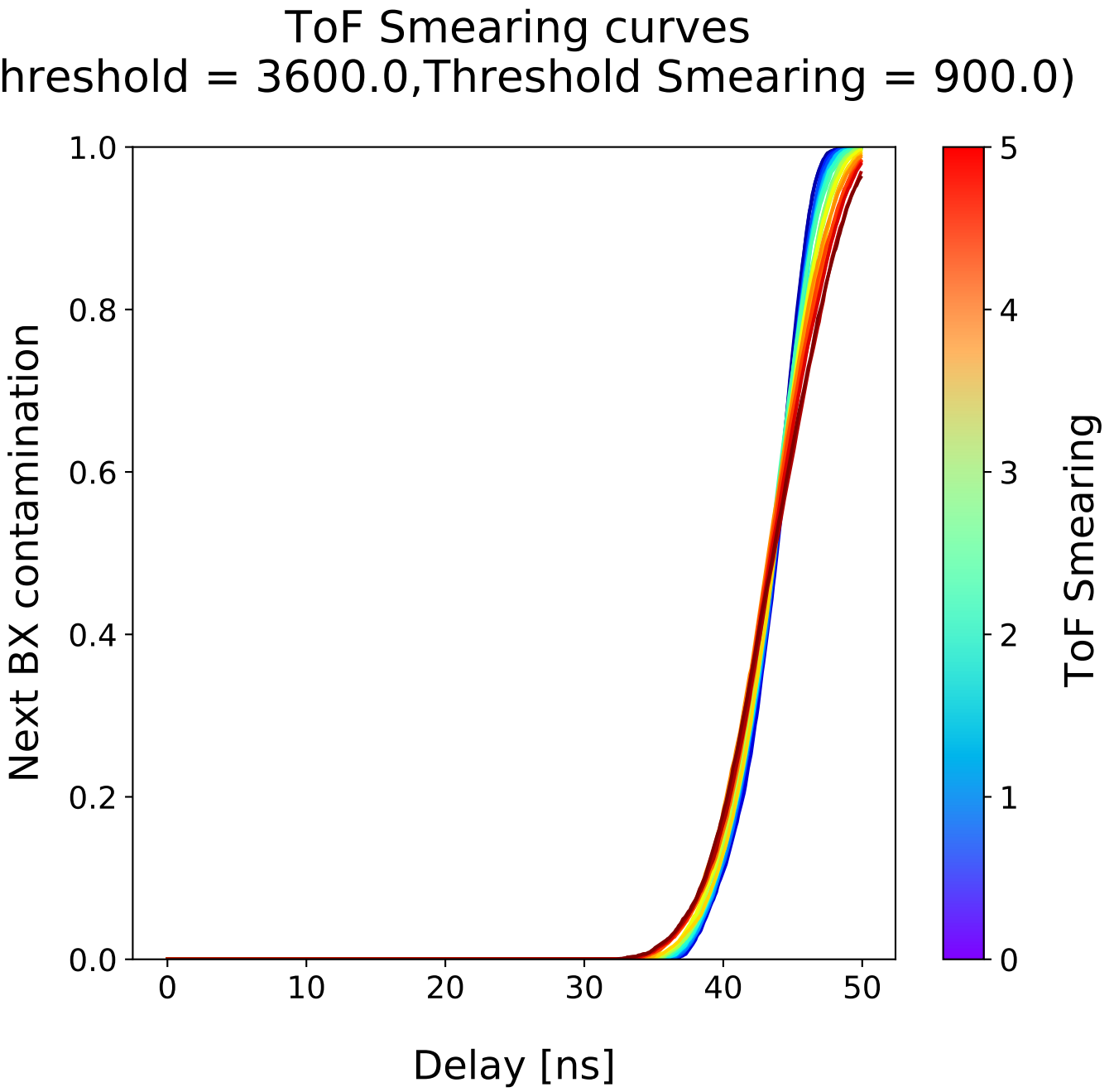

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

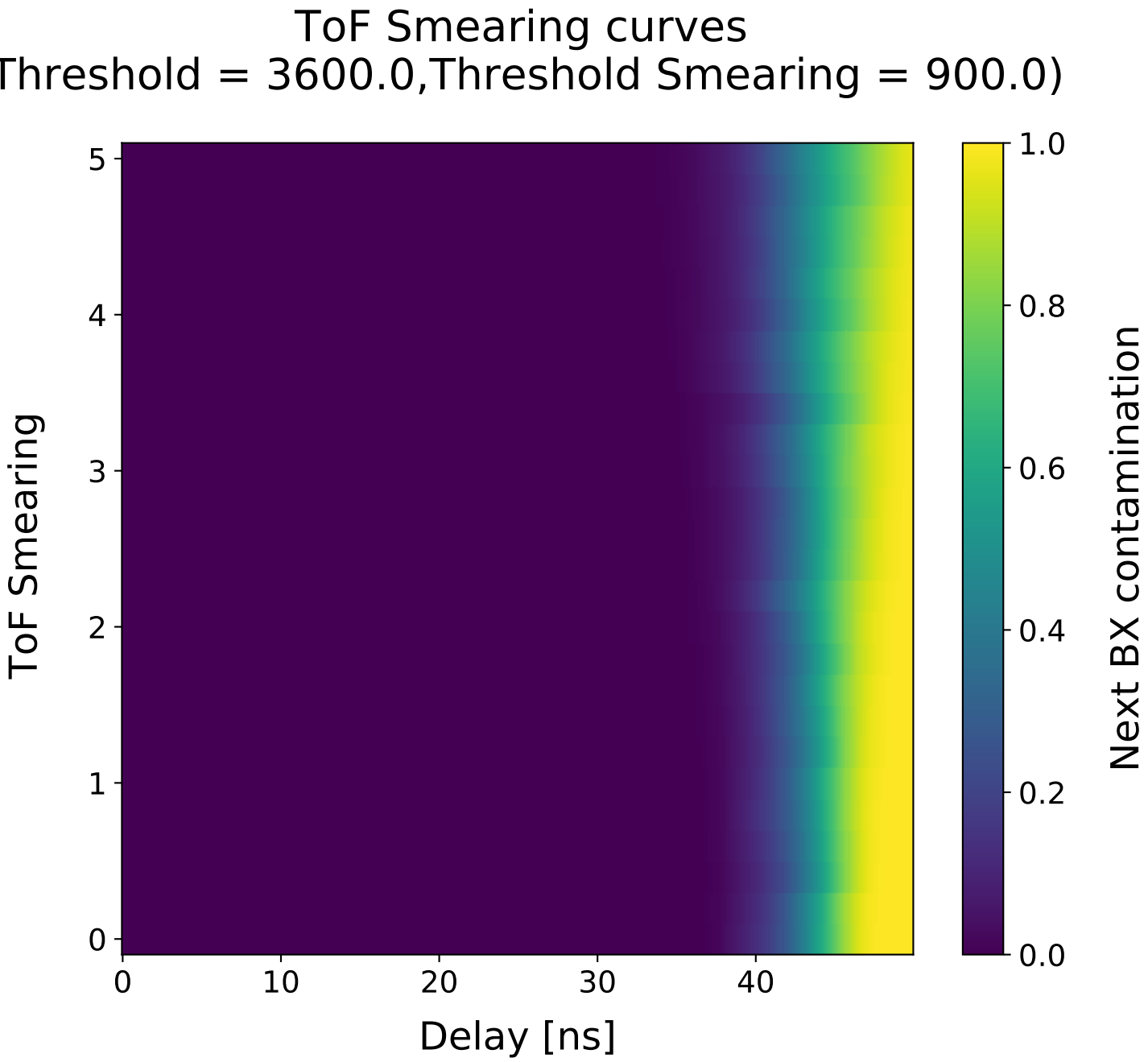

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

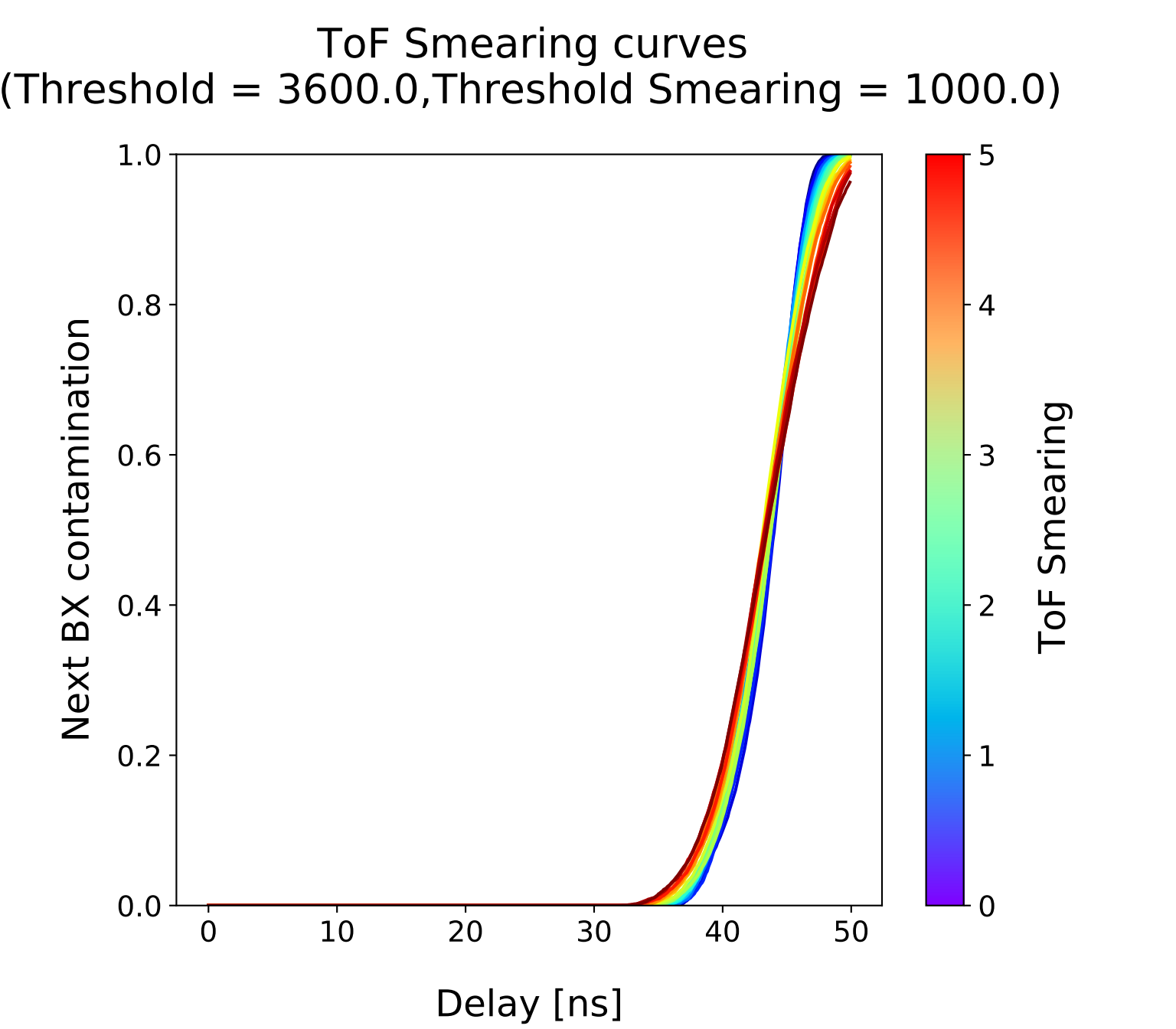

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

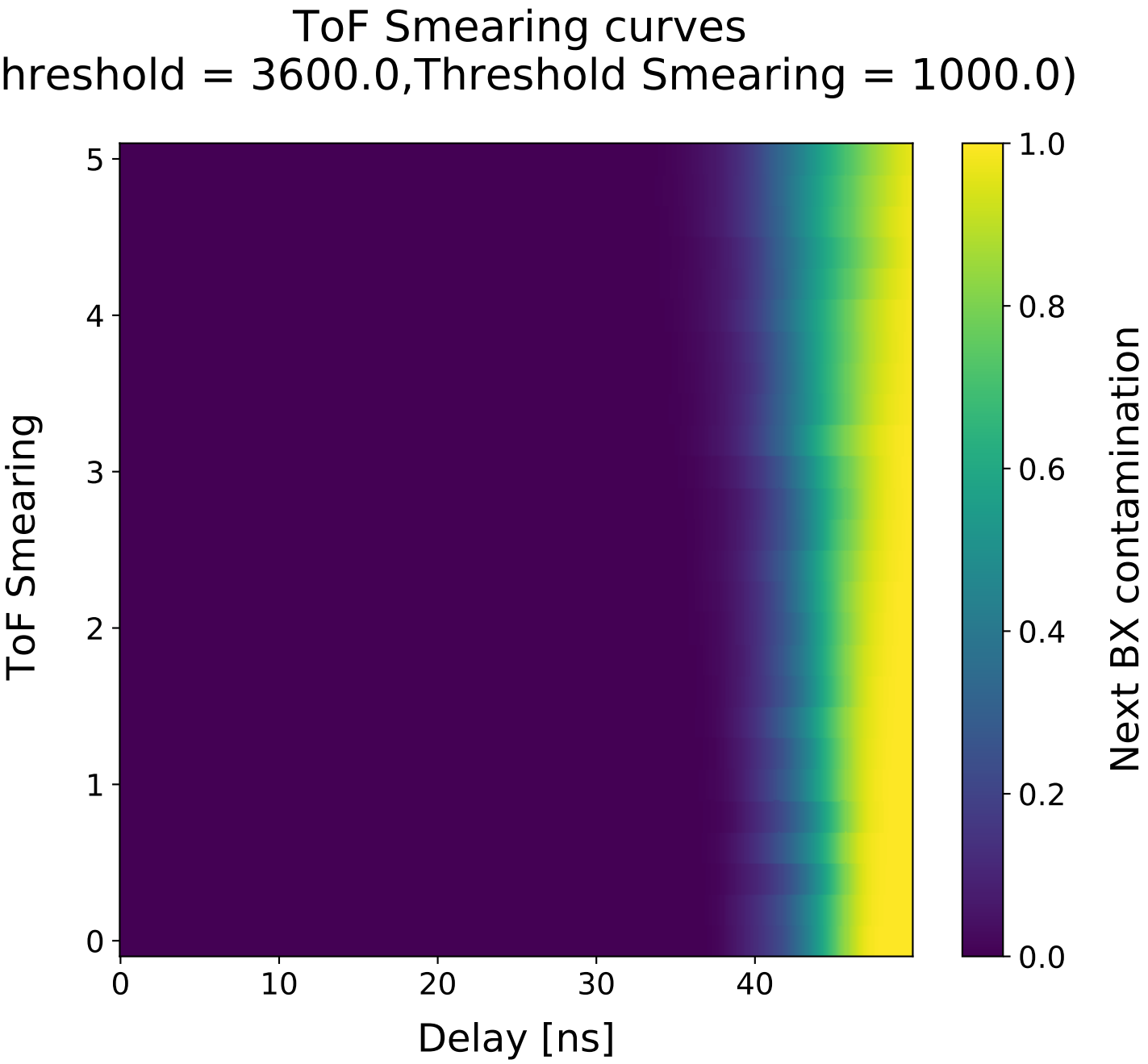

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

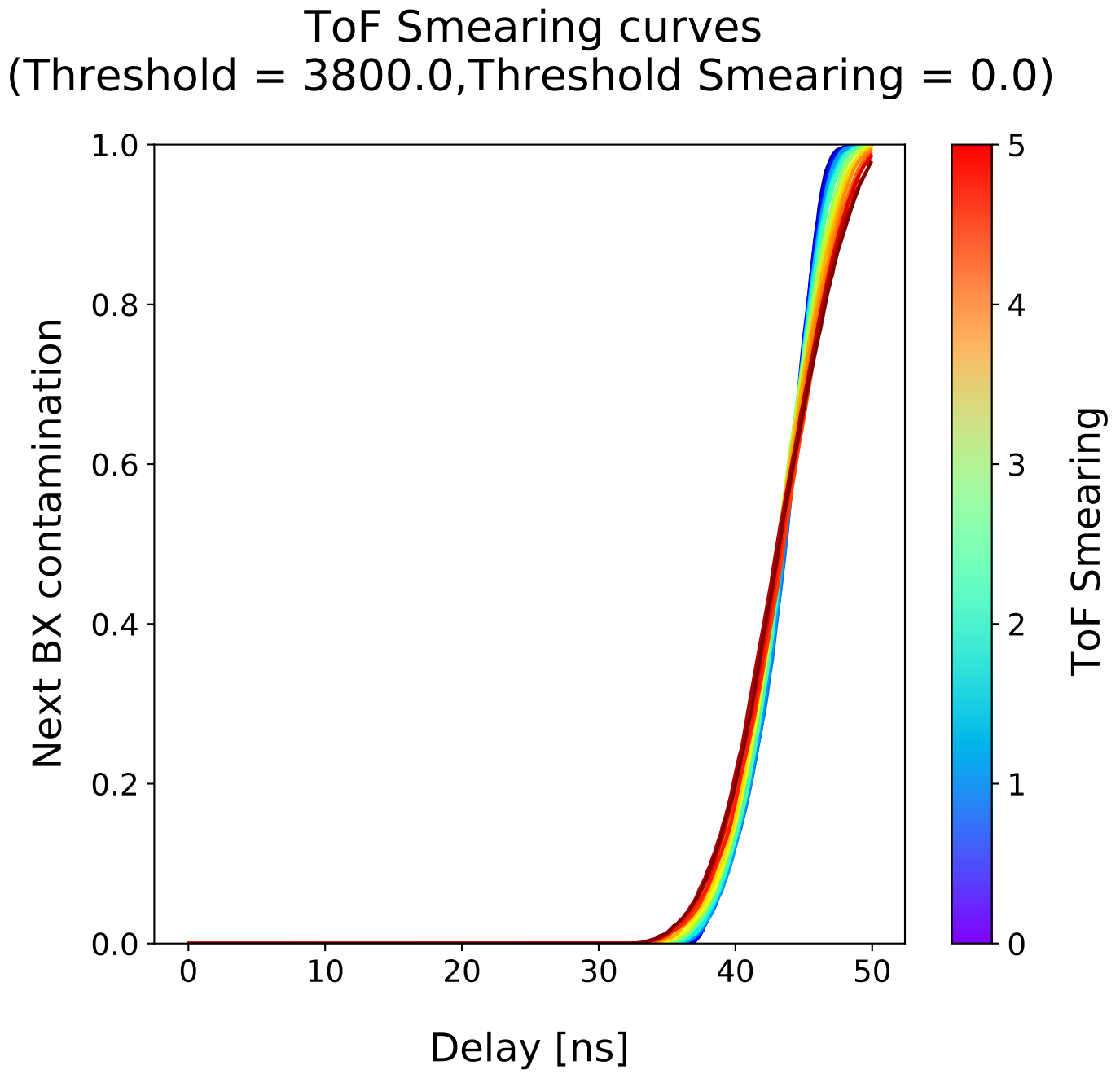

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

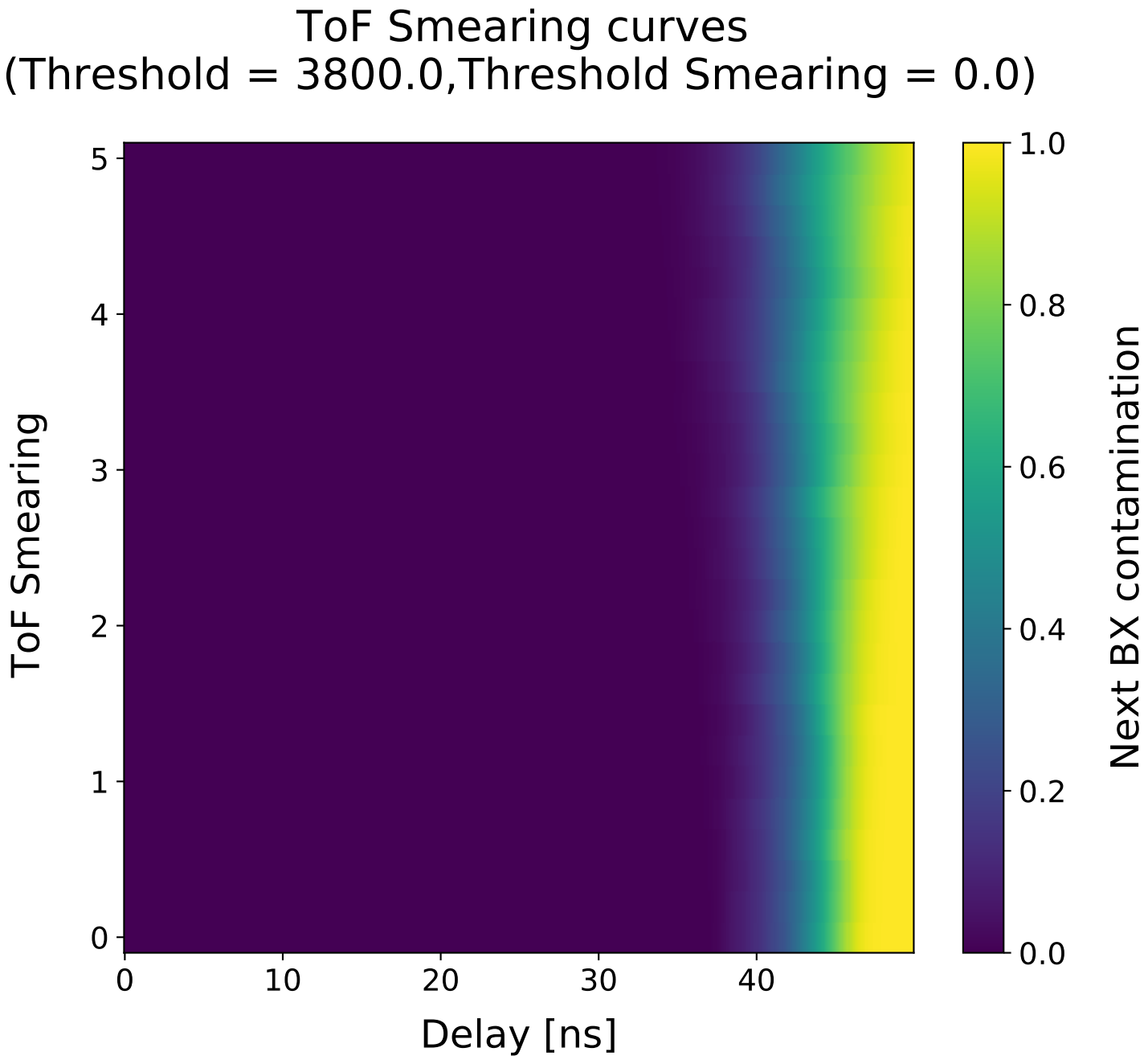

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
5
4
3
2
1
0

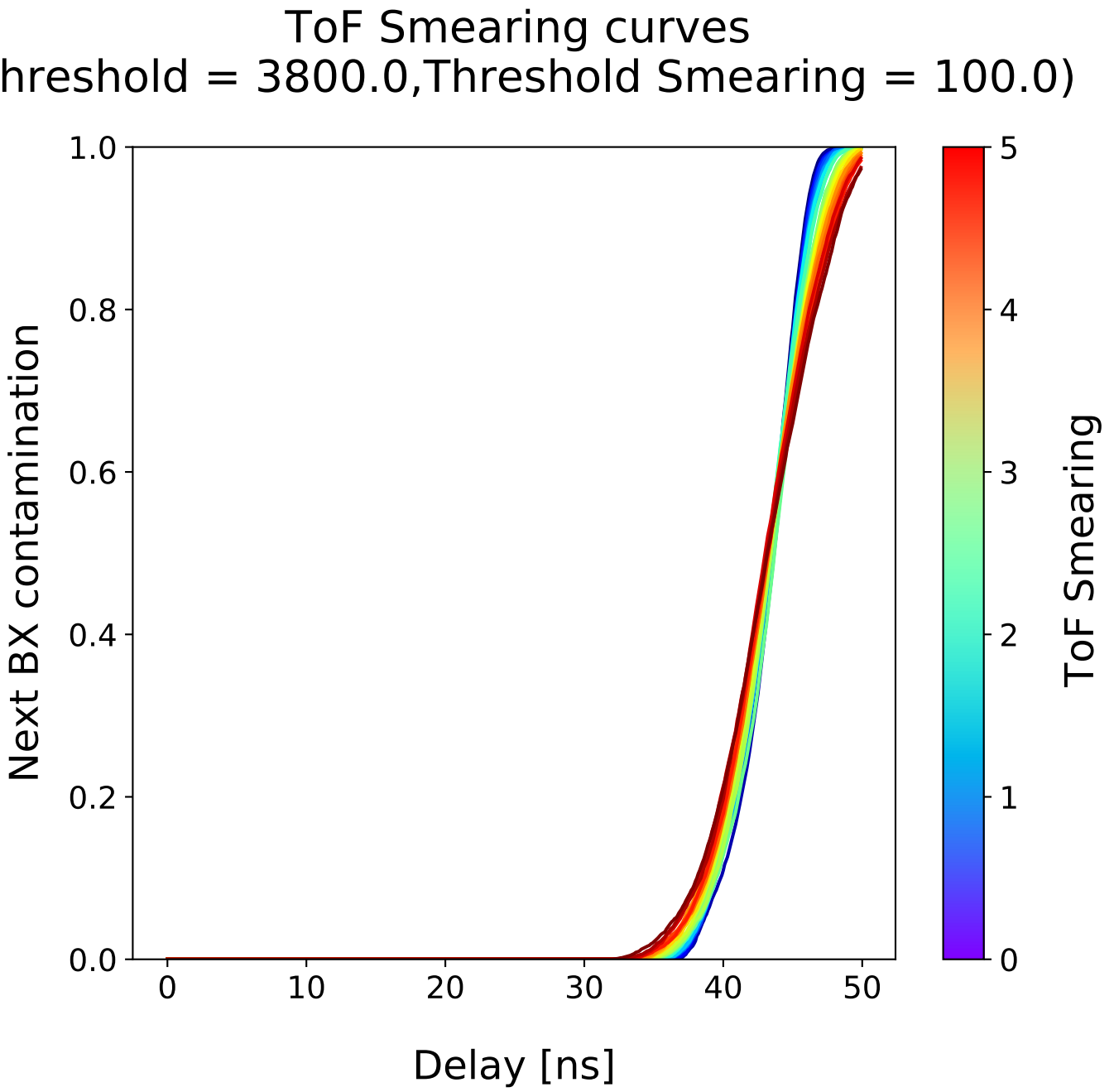

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

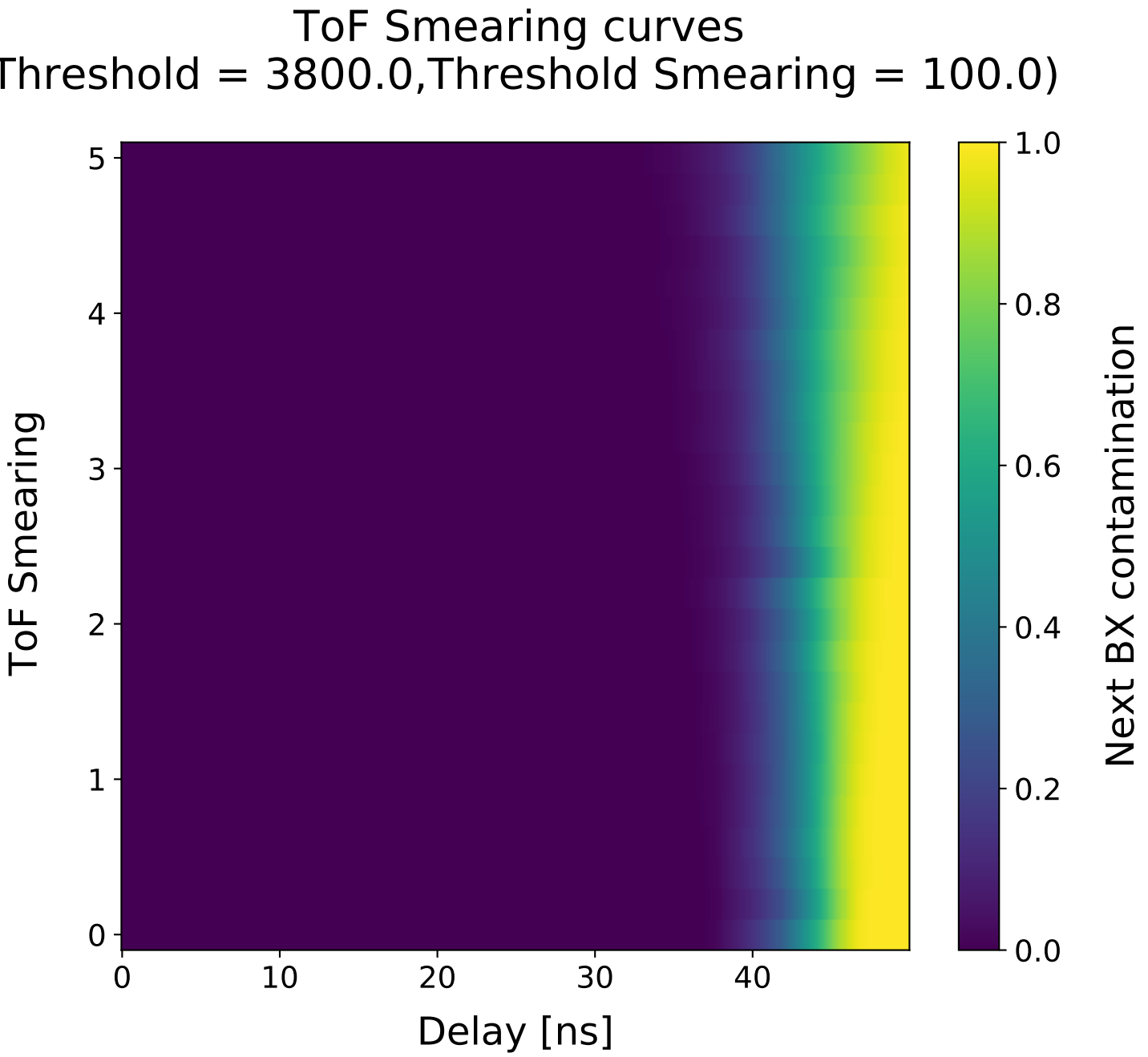

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

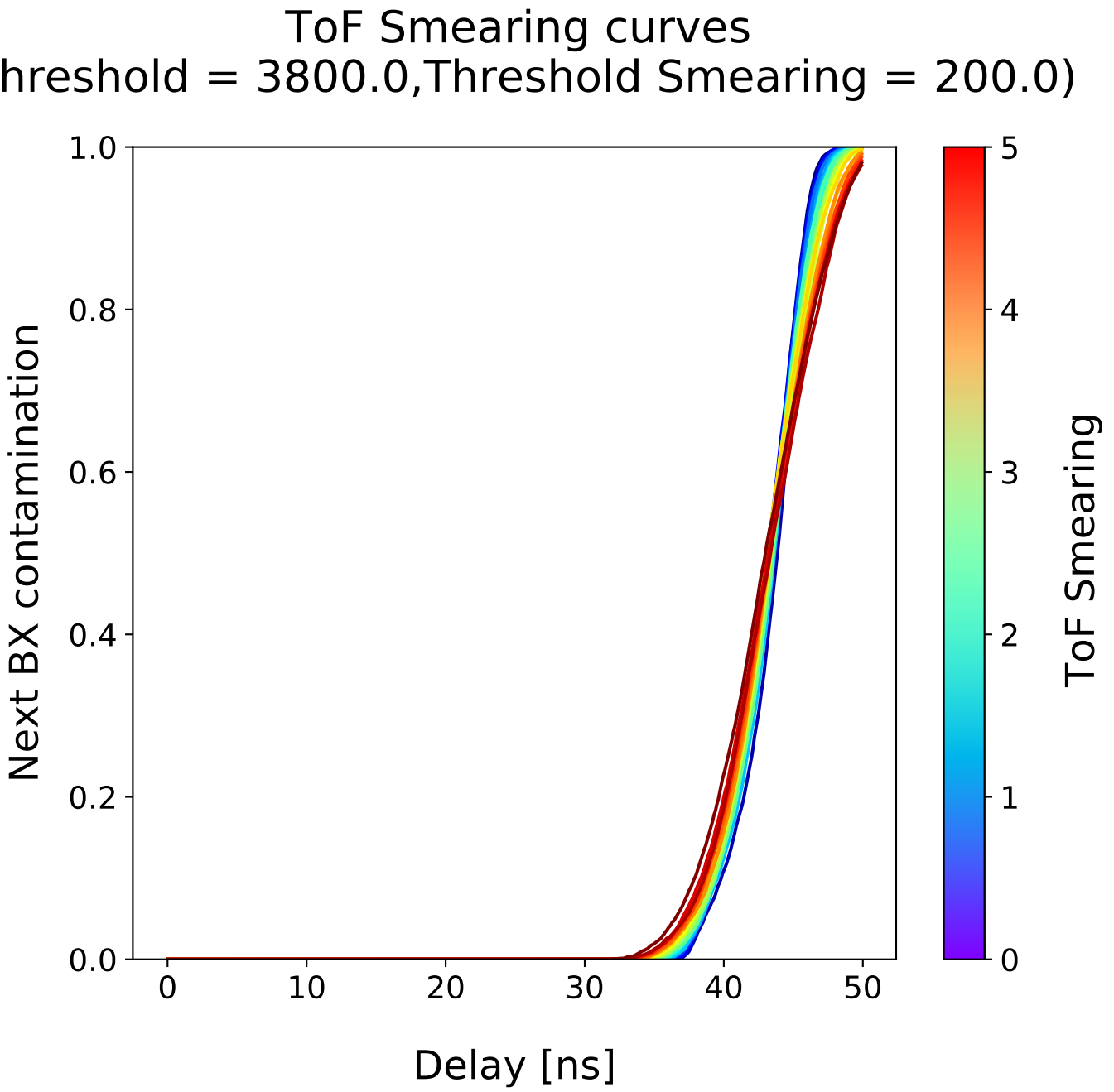

ToF Smearing curves
(Threshold = 3600.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

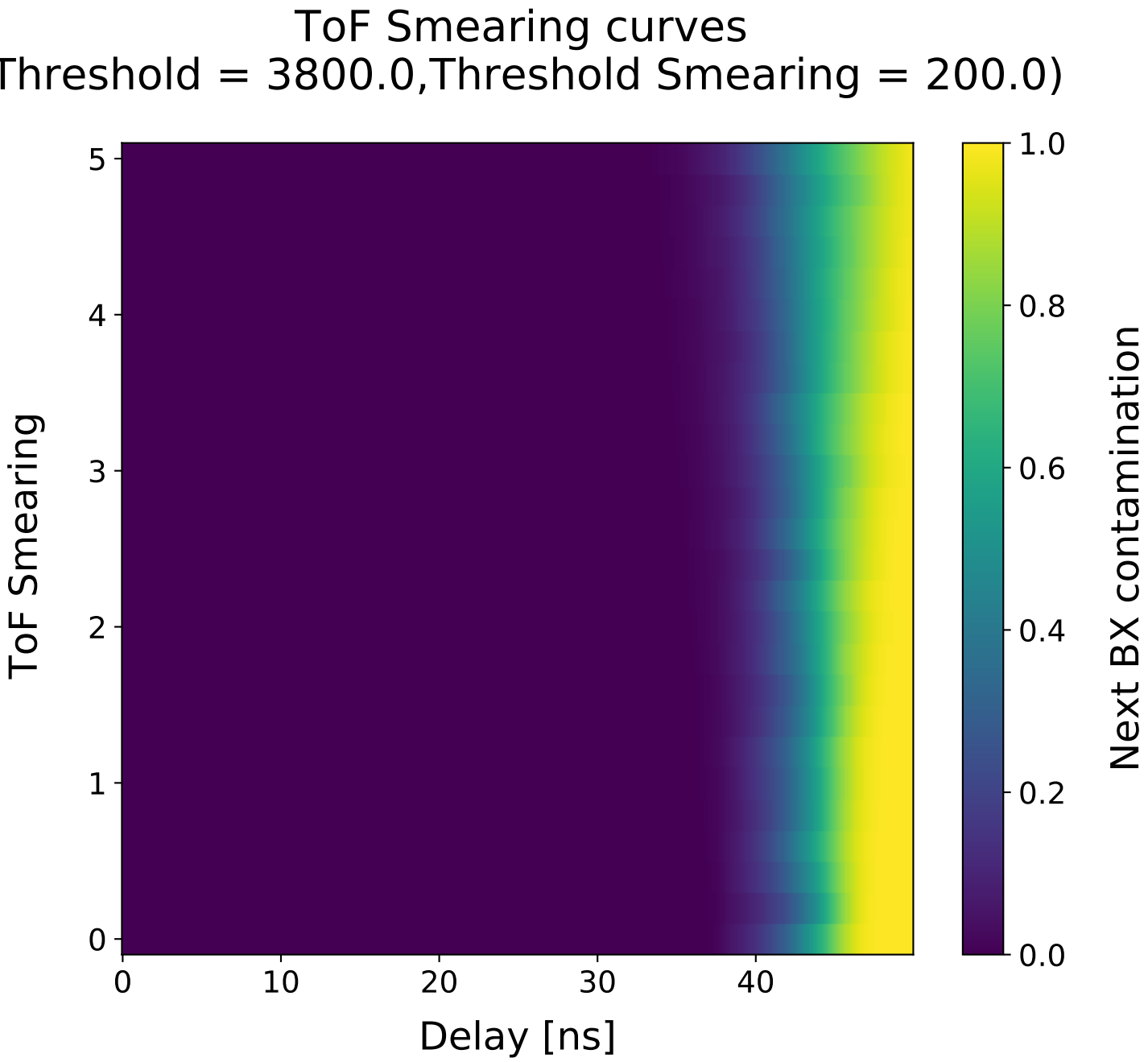

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

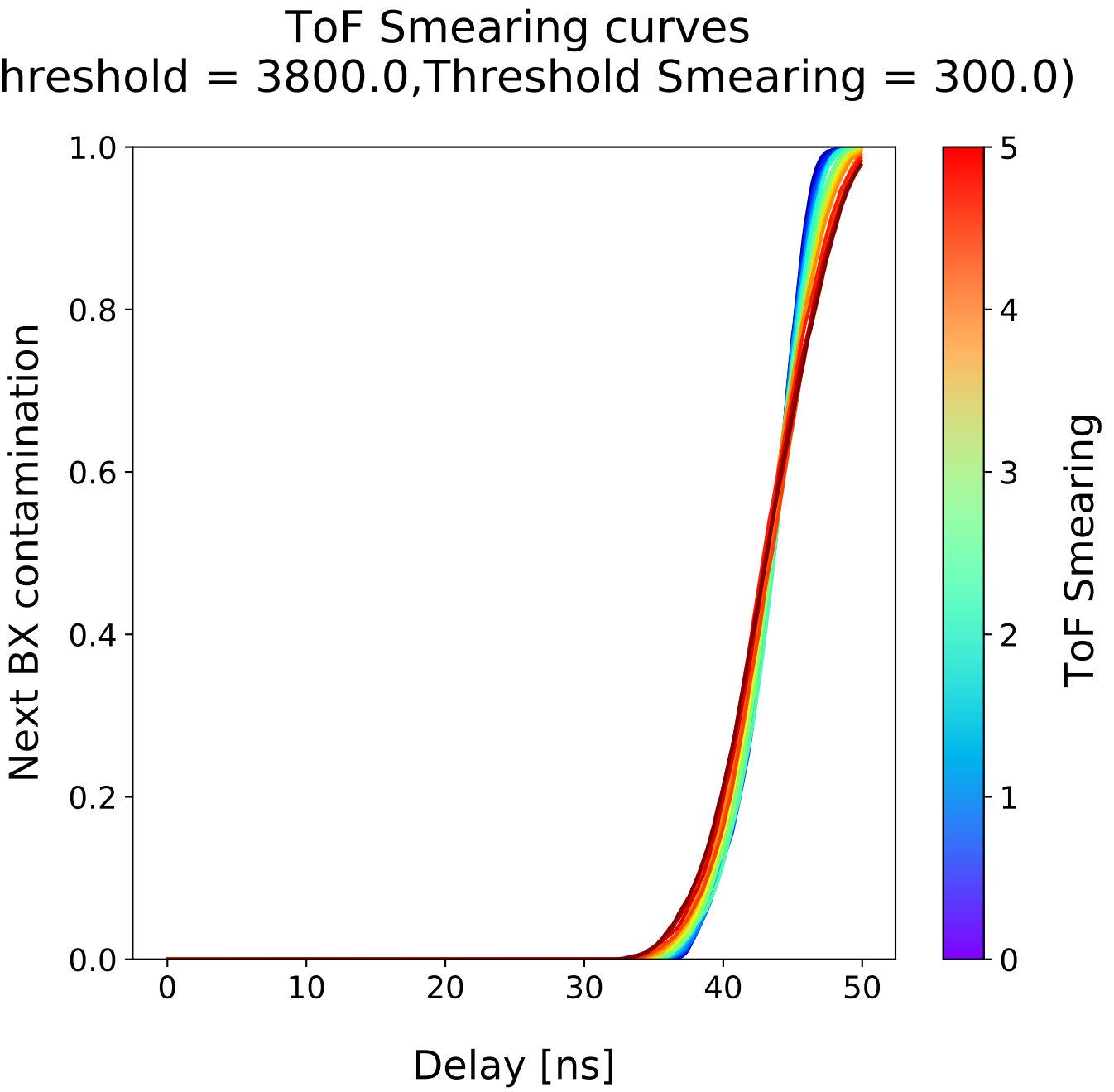

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

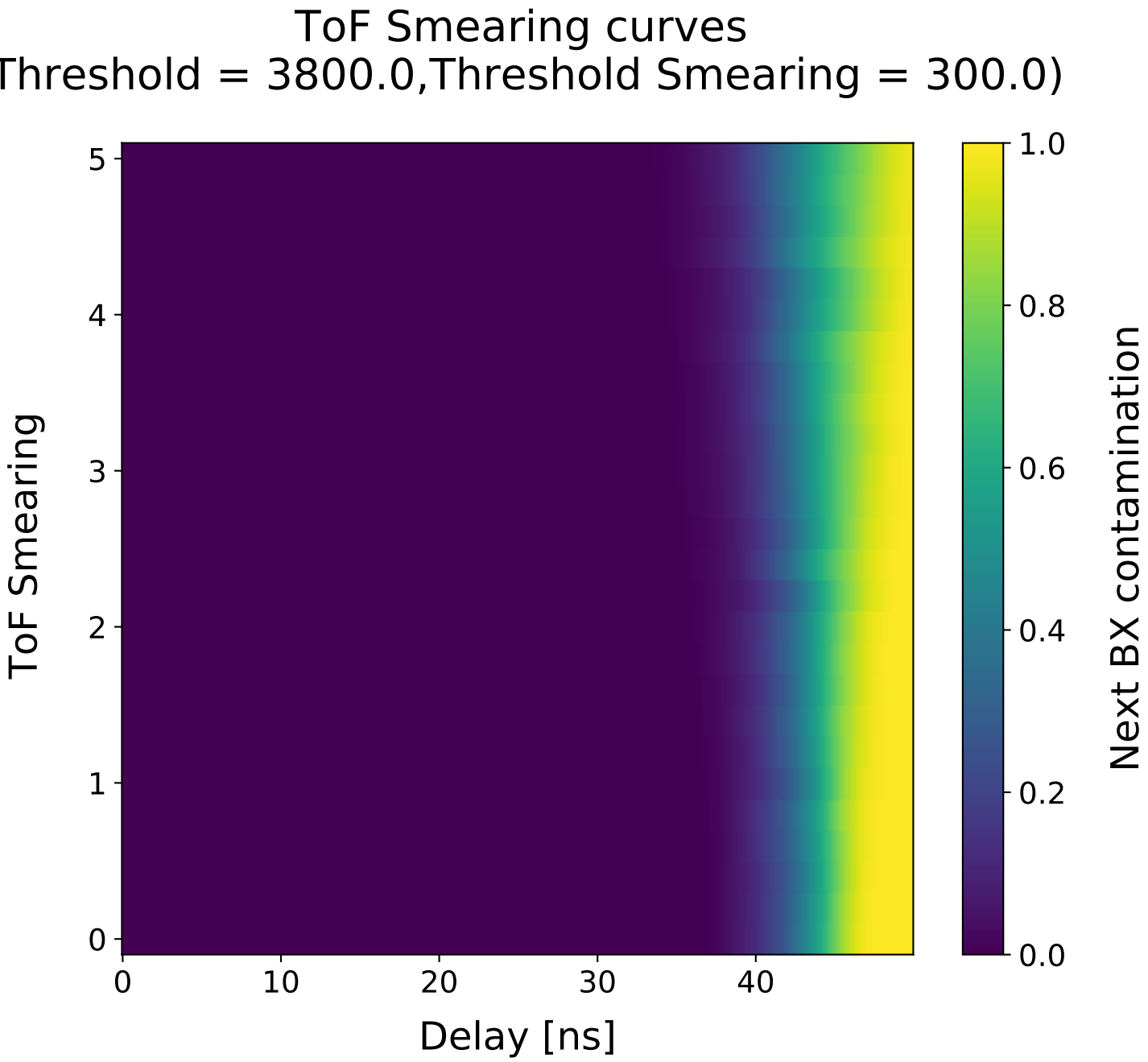

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

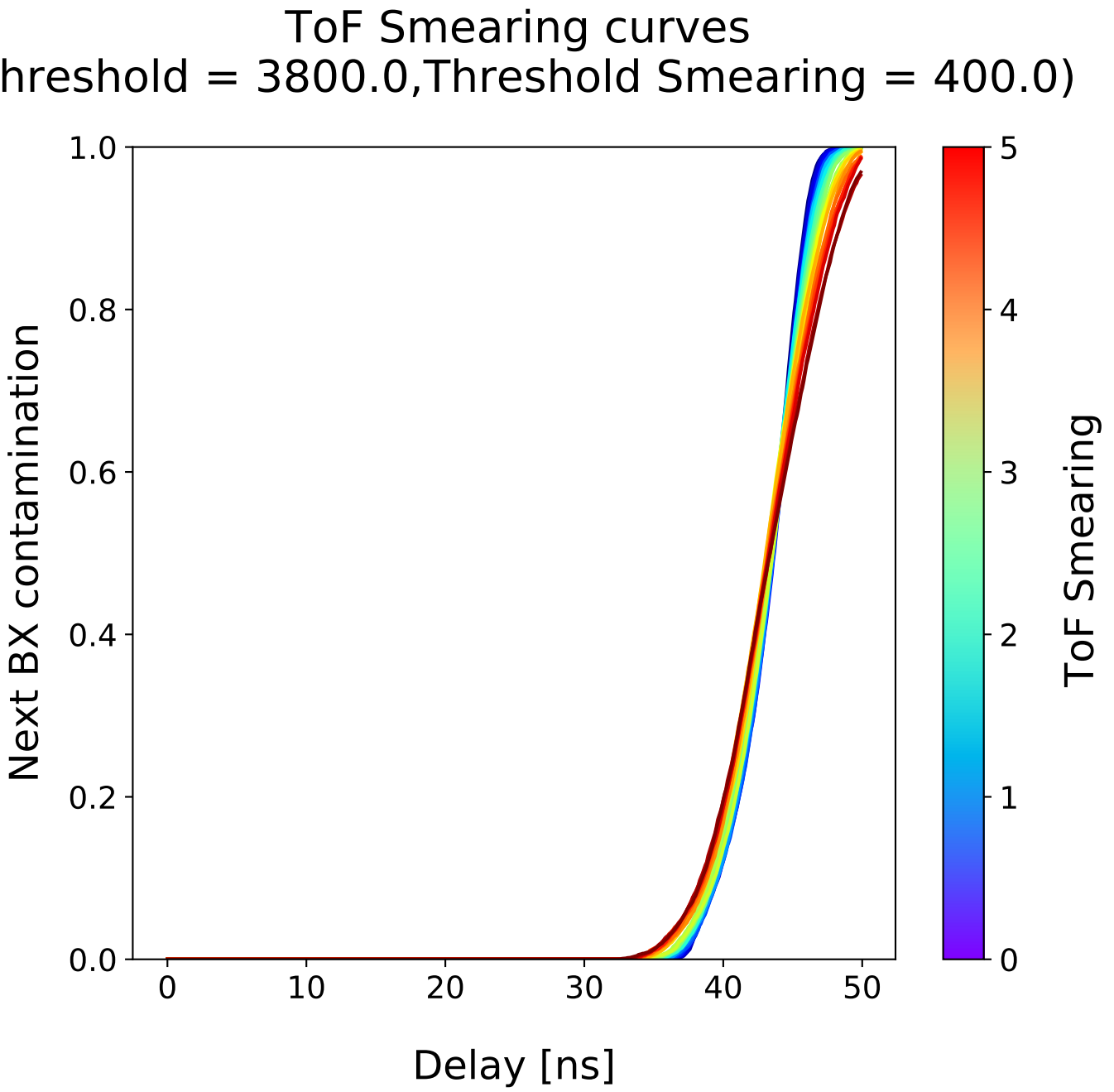

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

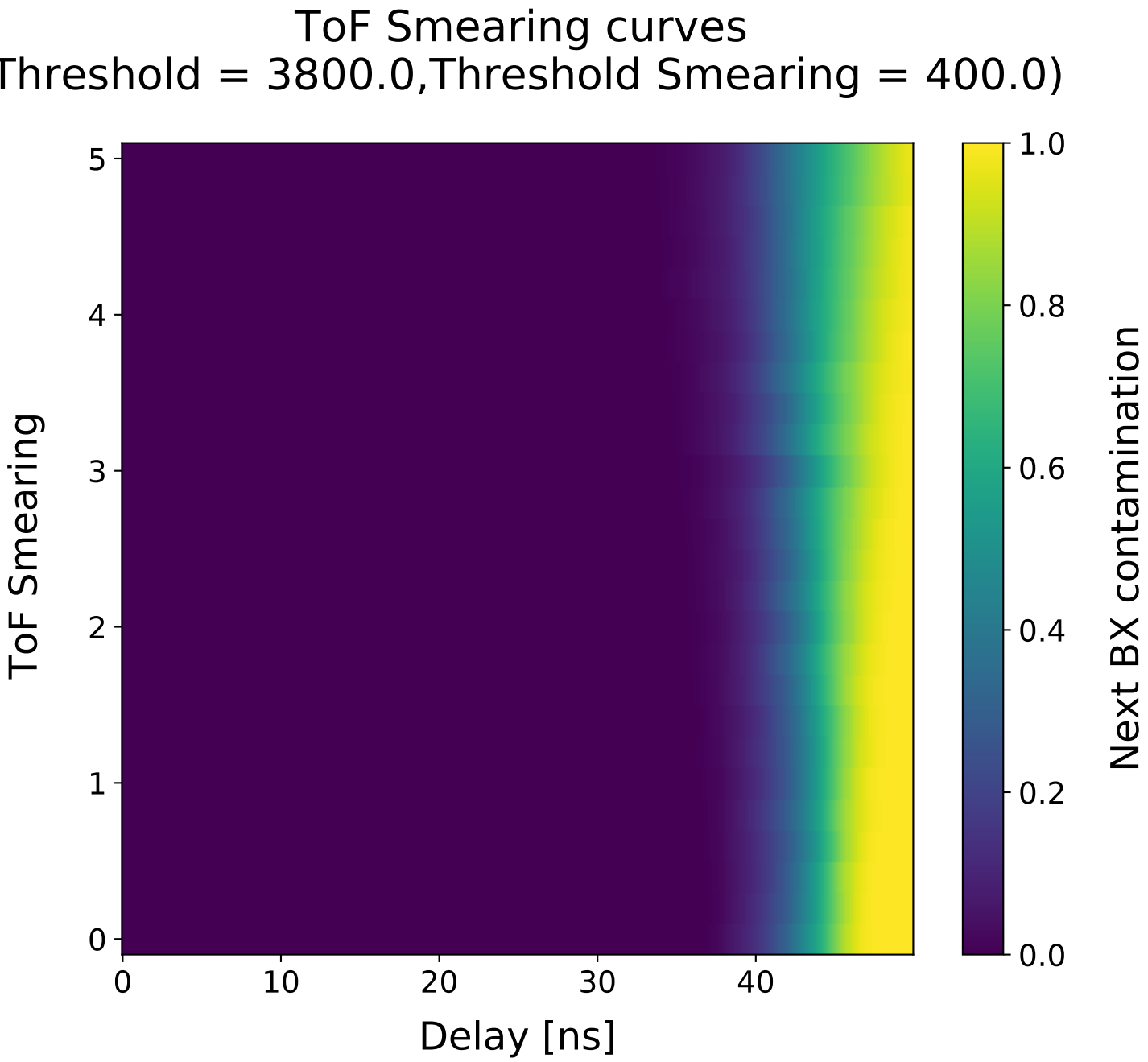

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

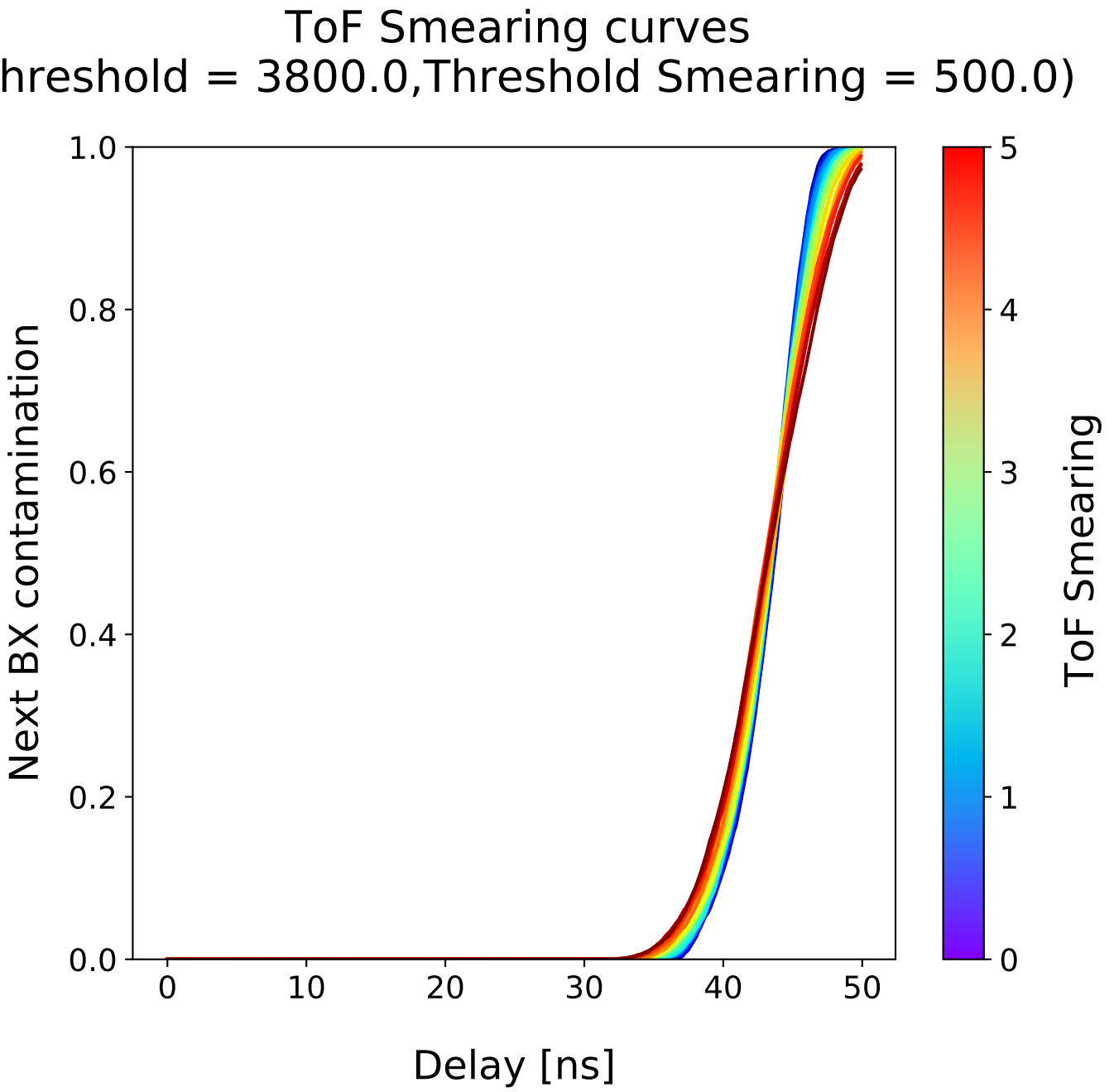

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

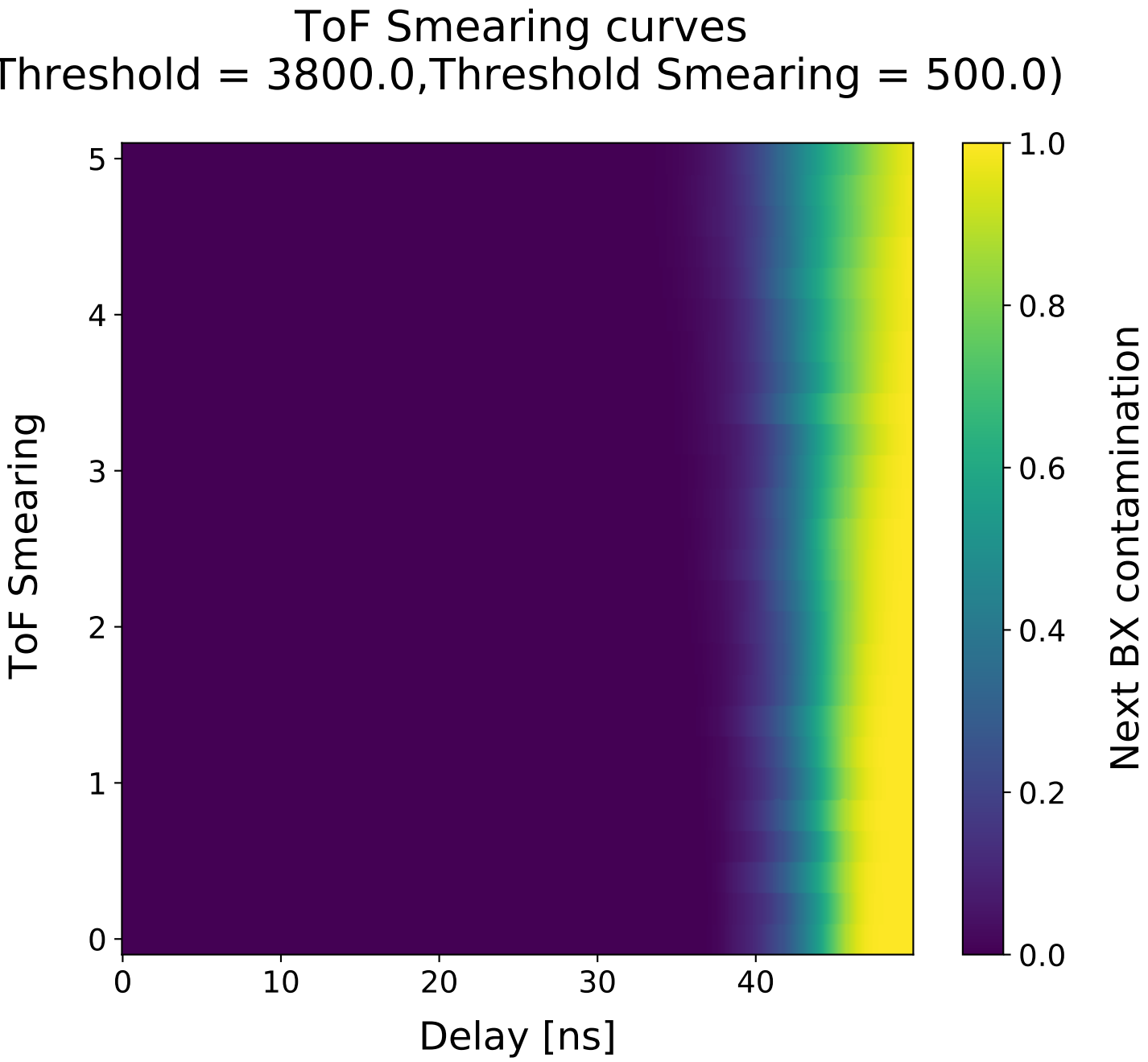

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

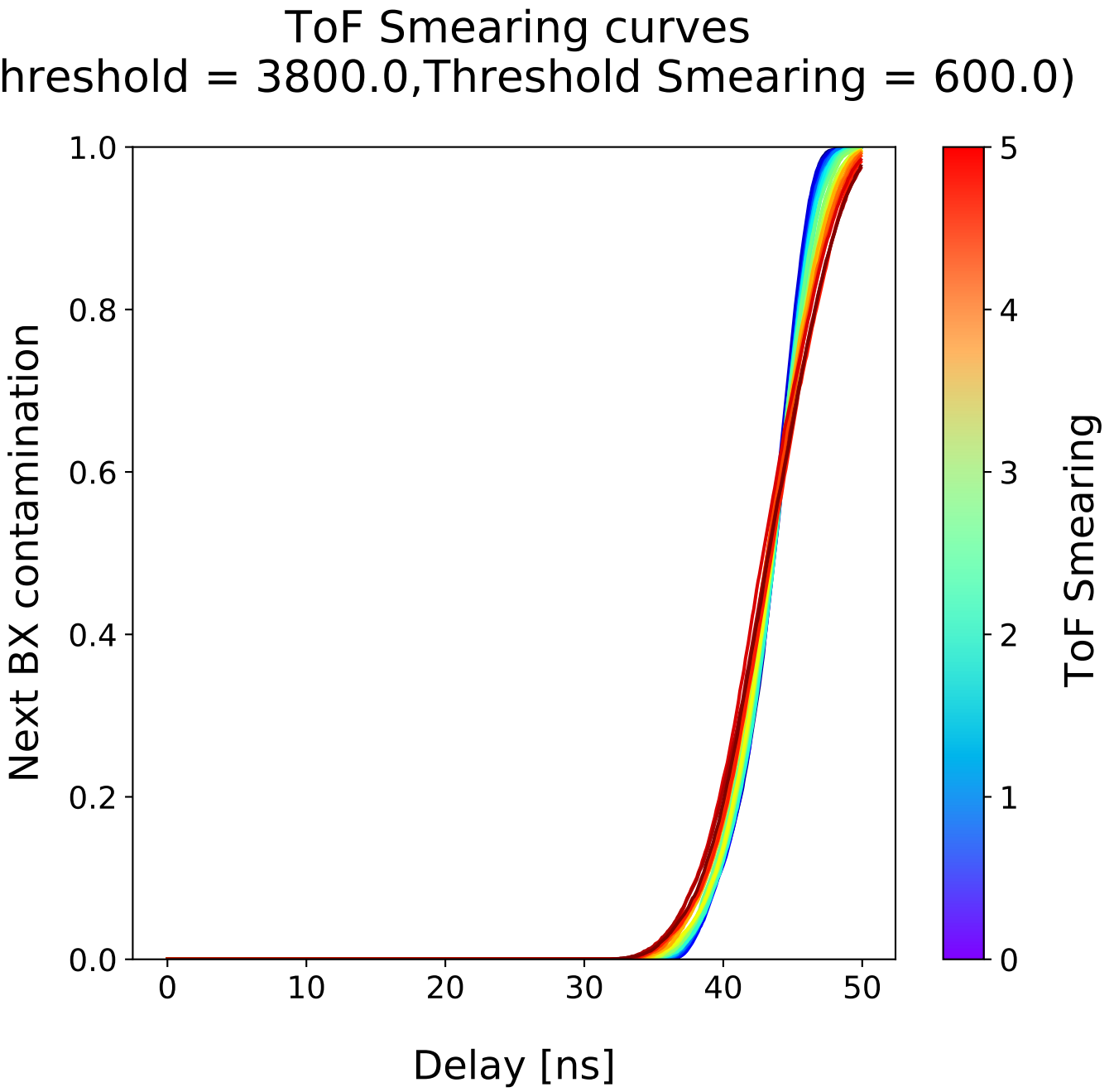

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

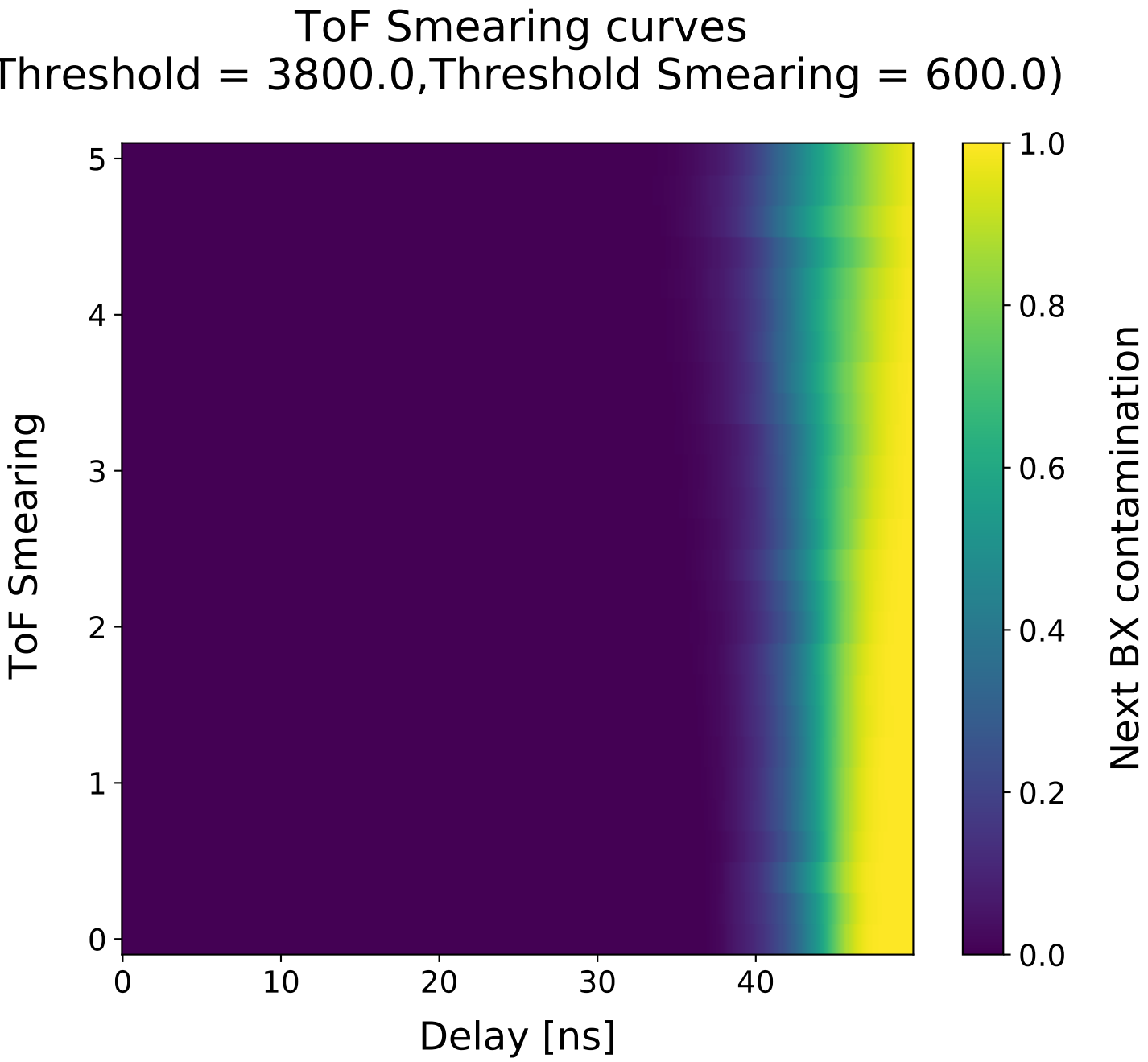

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

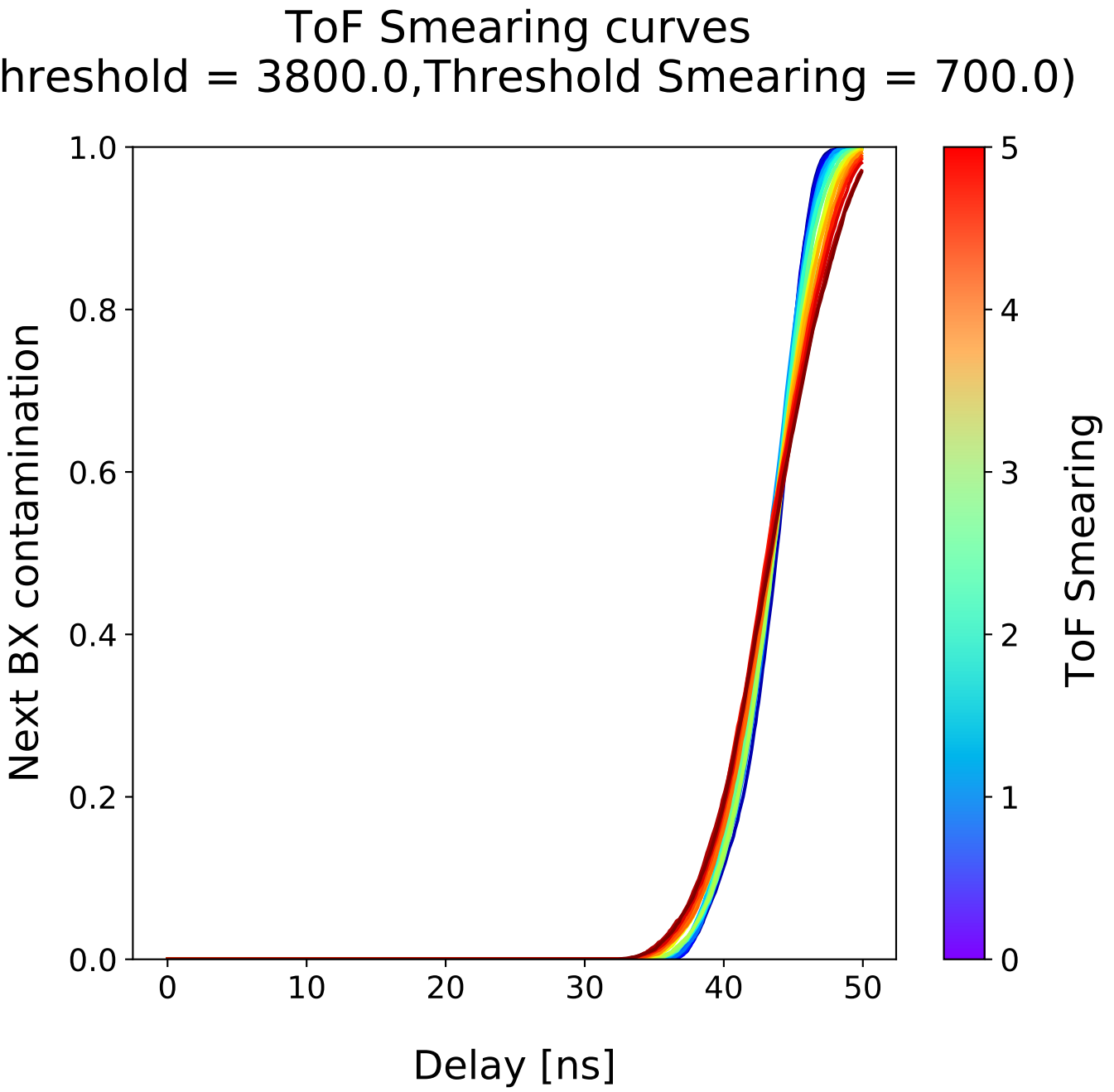

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

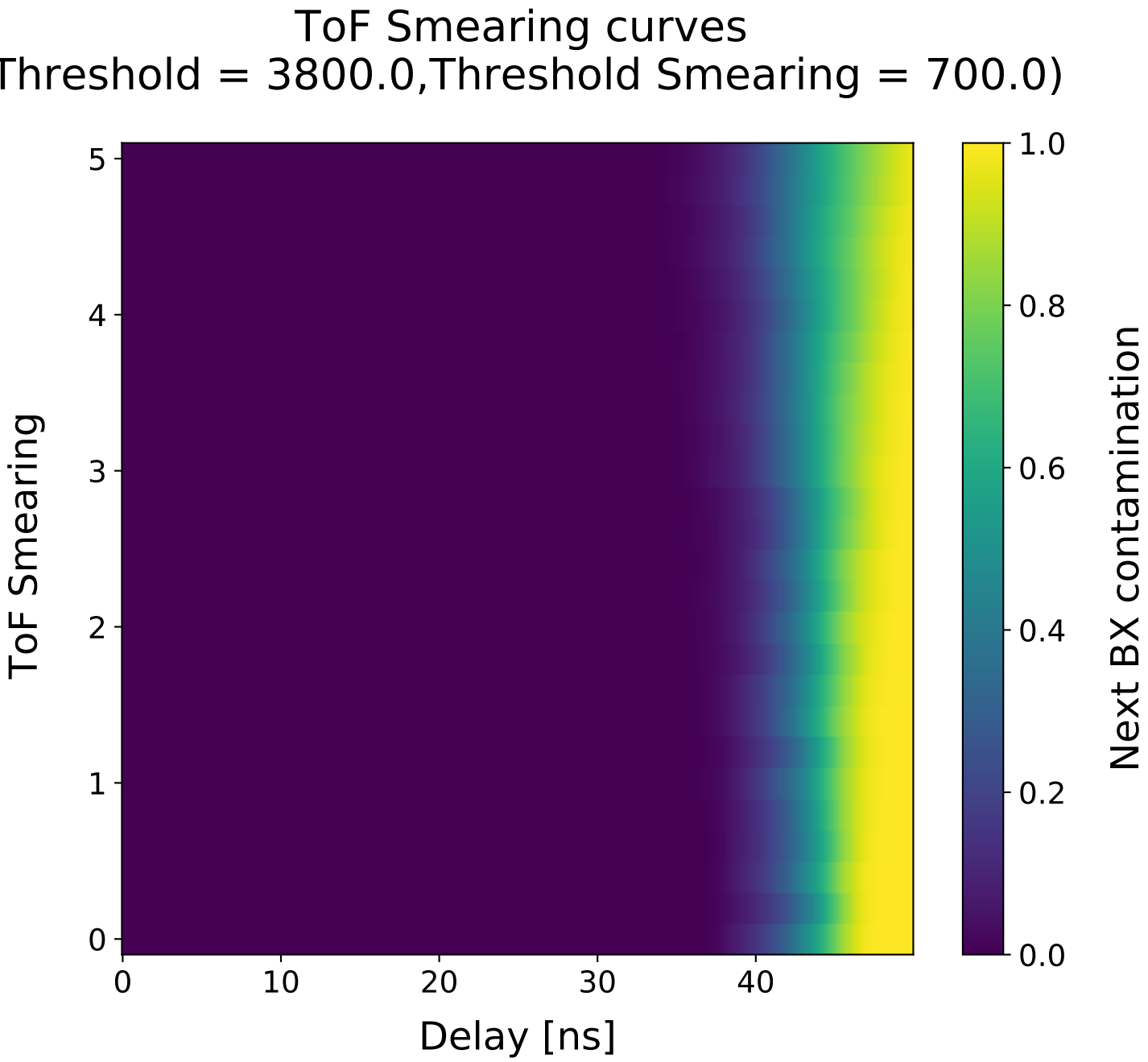

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

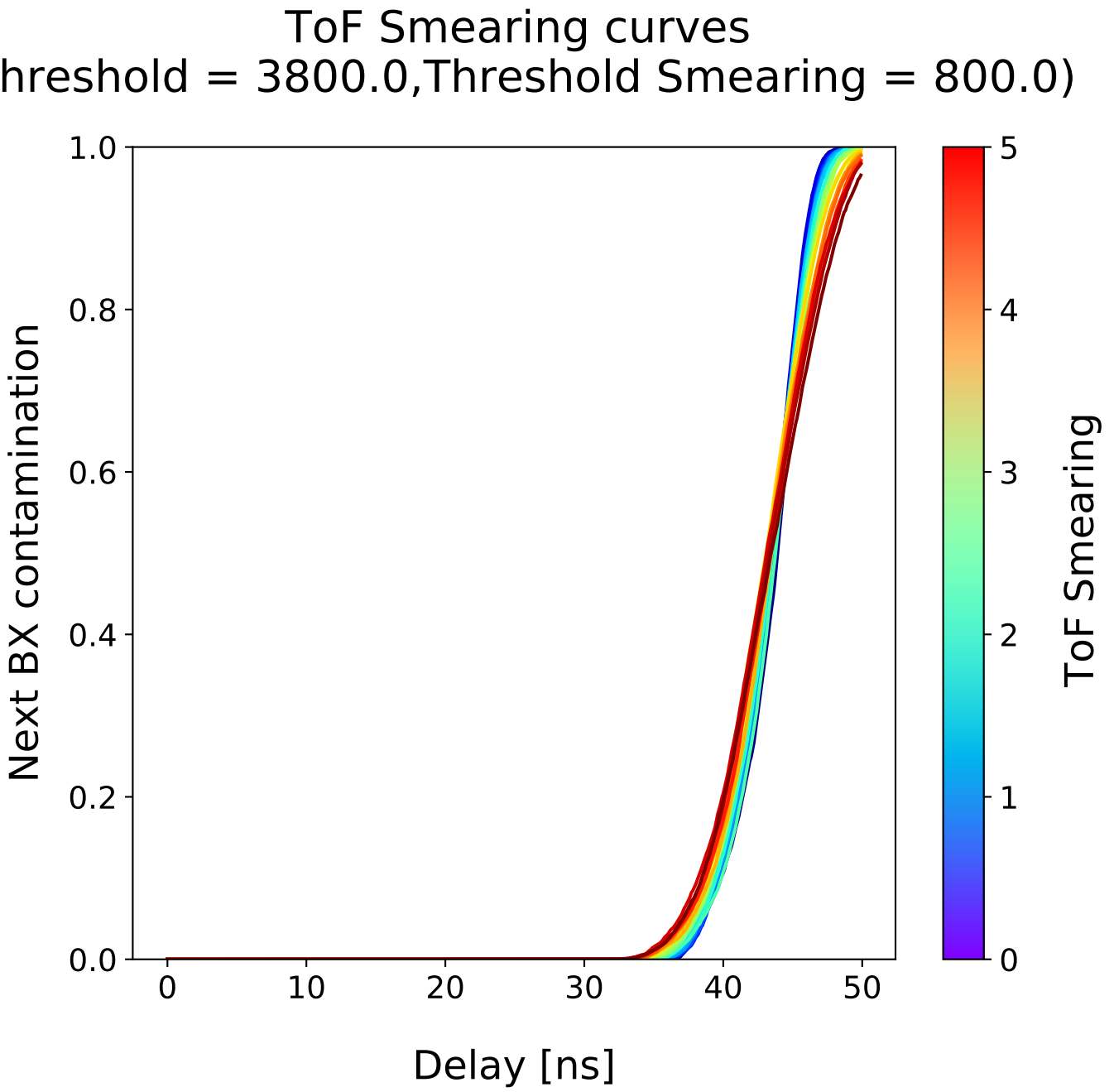

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

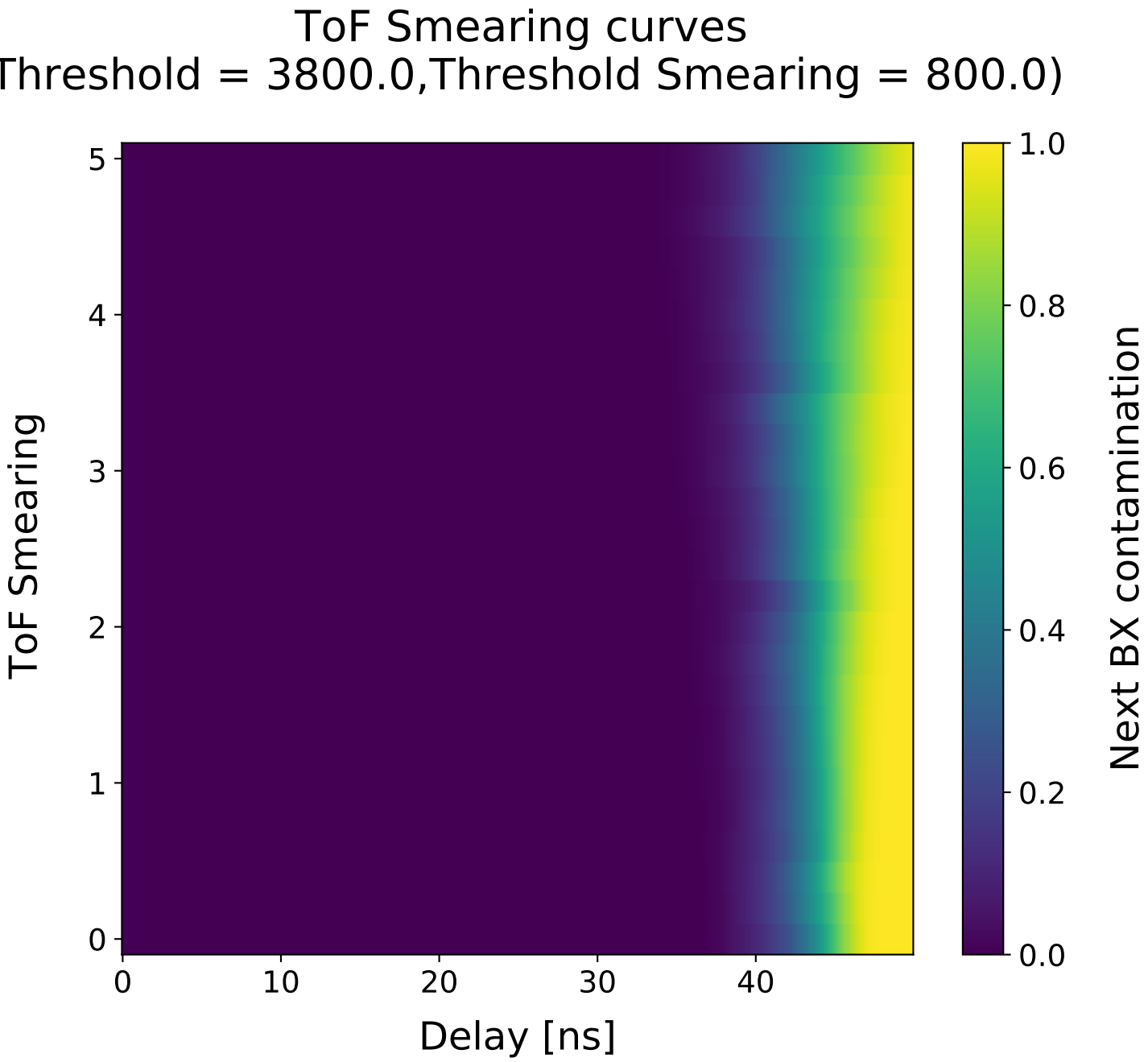

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

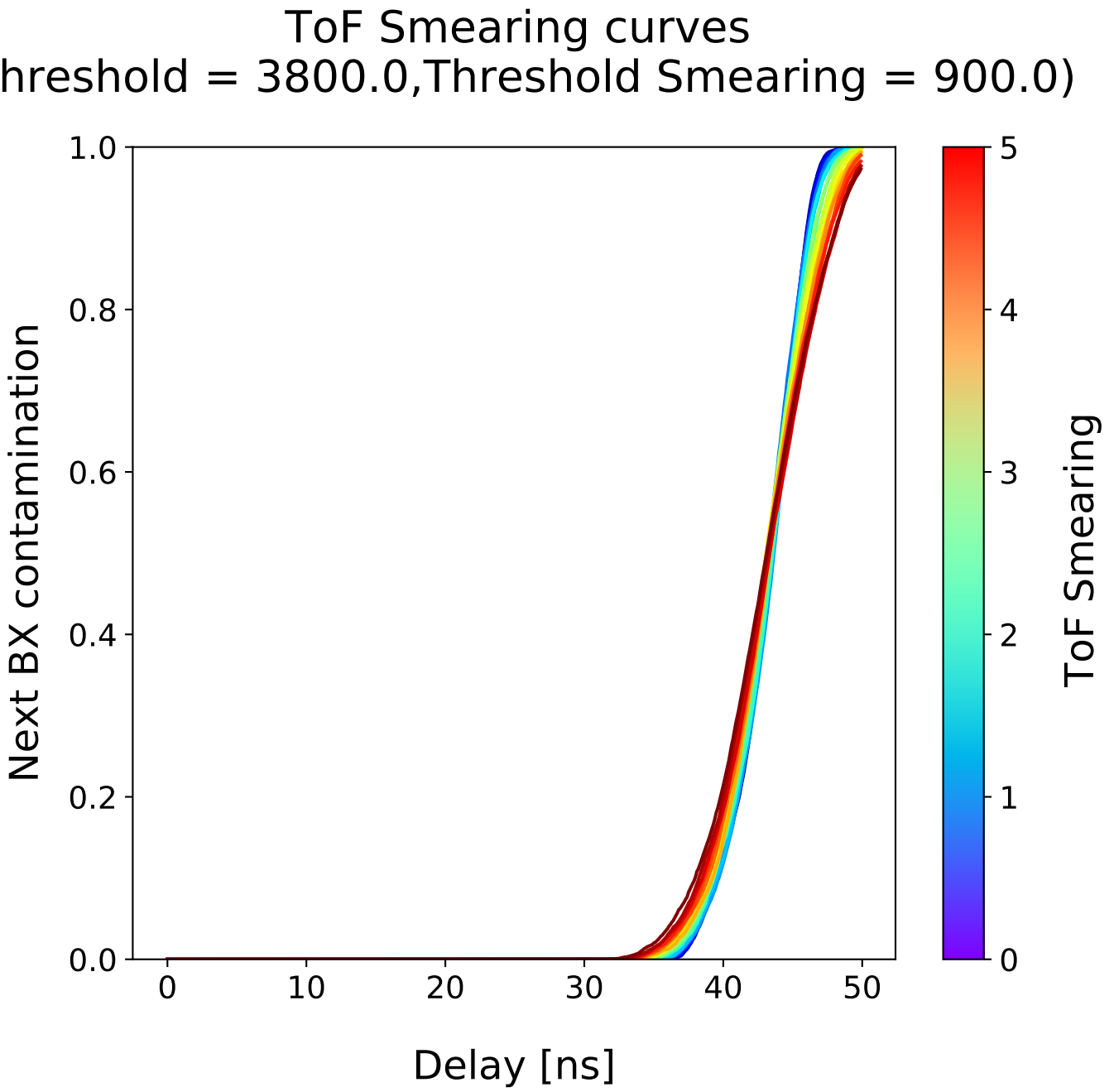

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

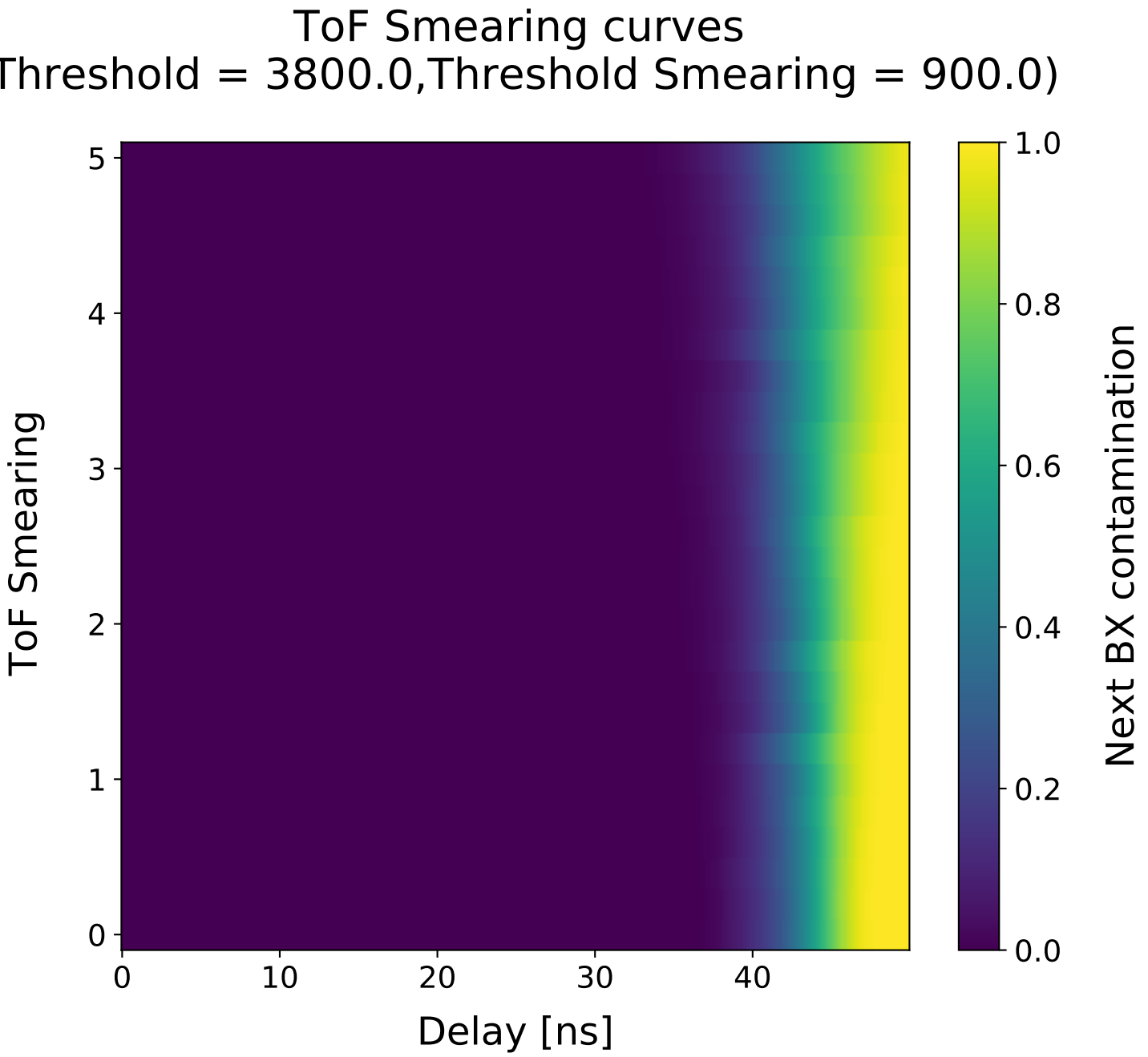

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

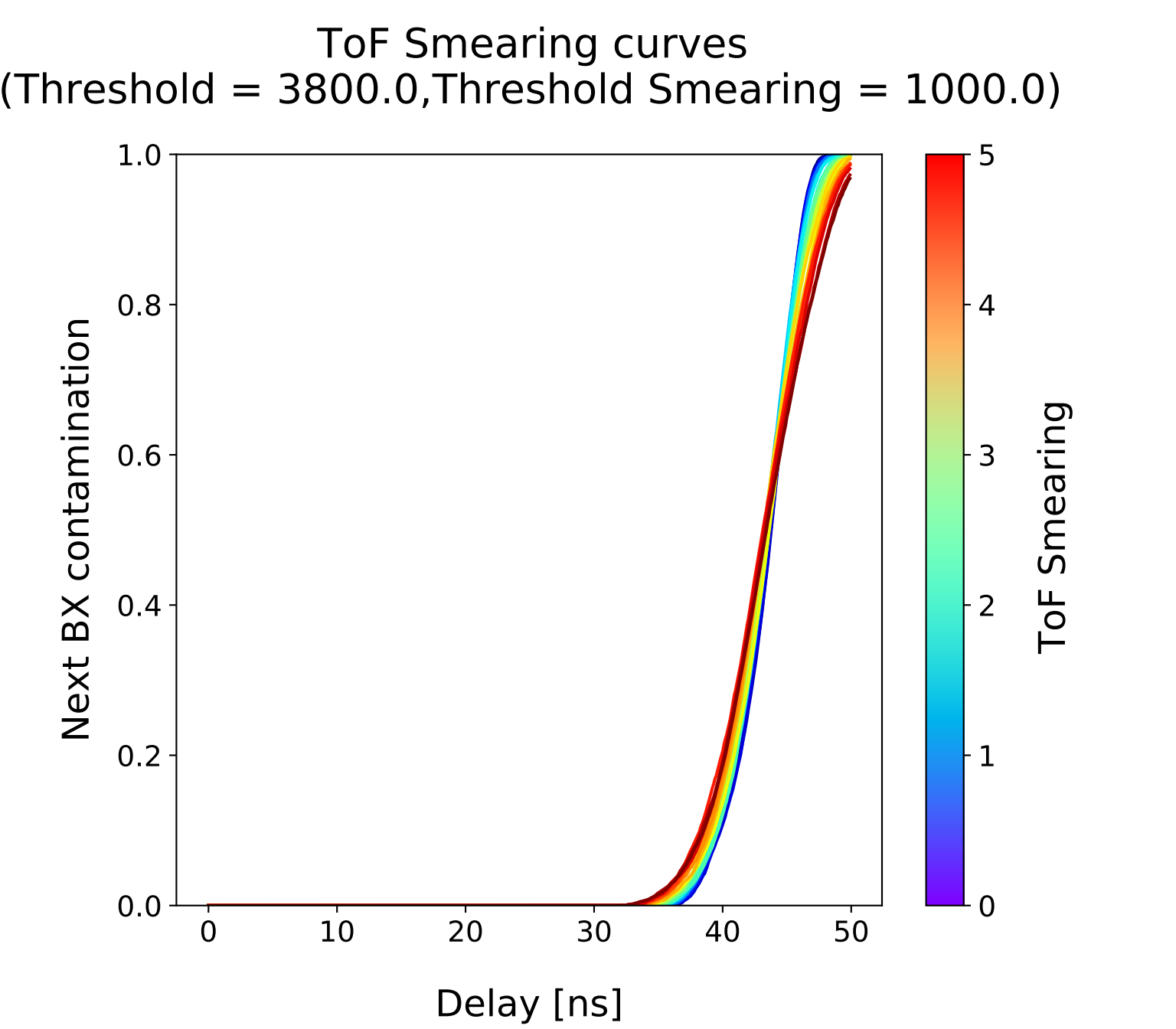

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

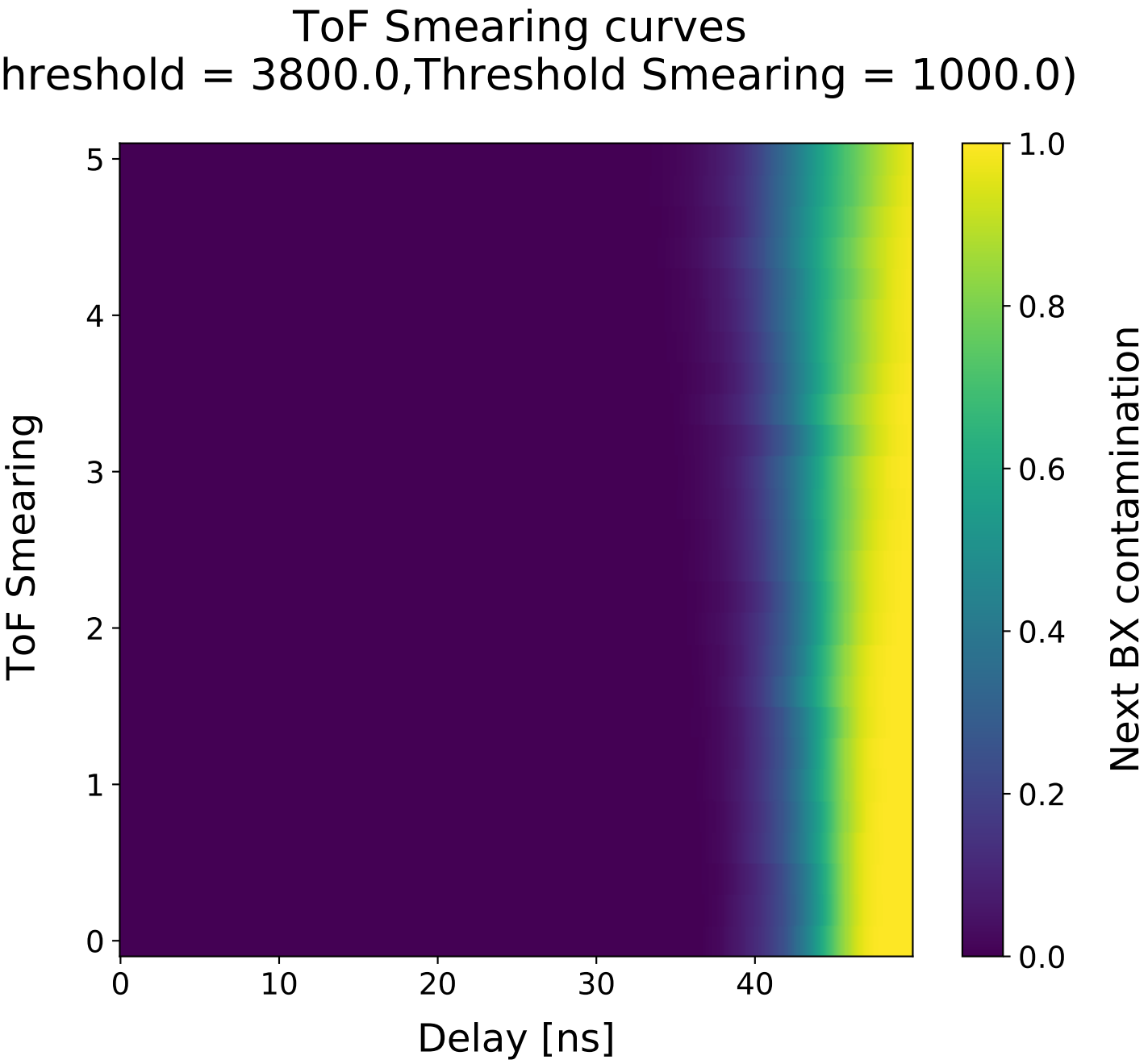

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

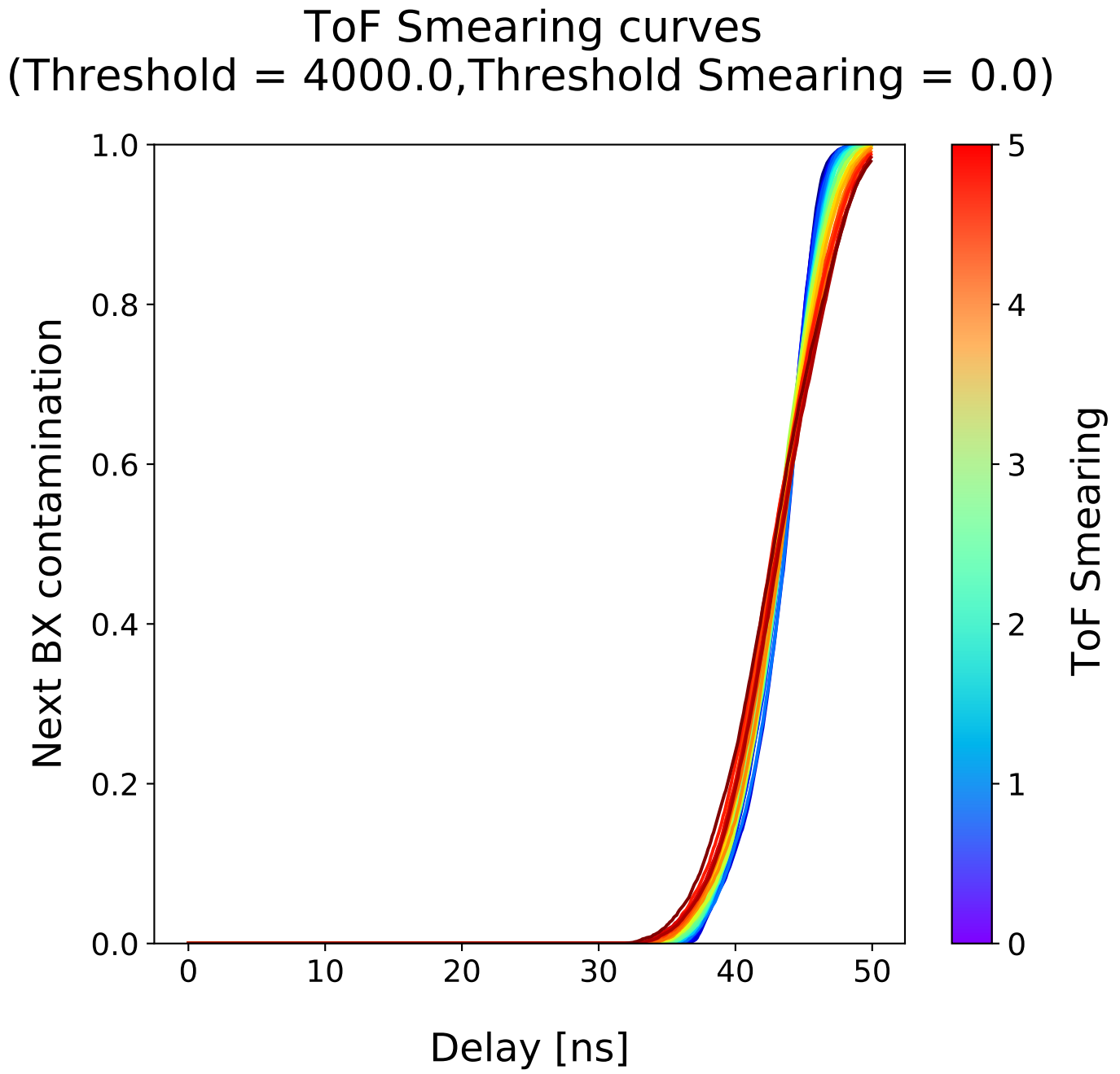

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

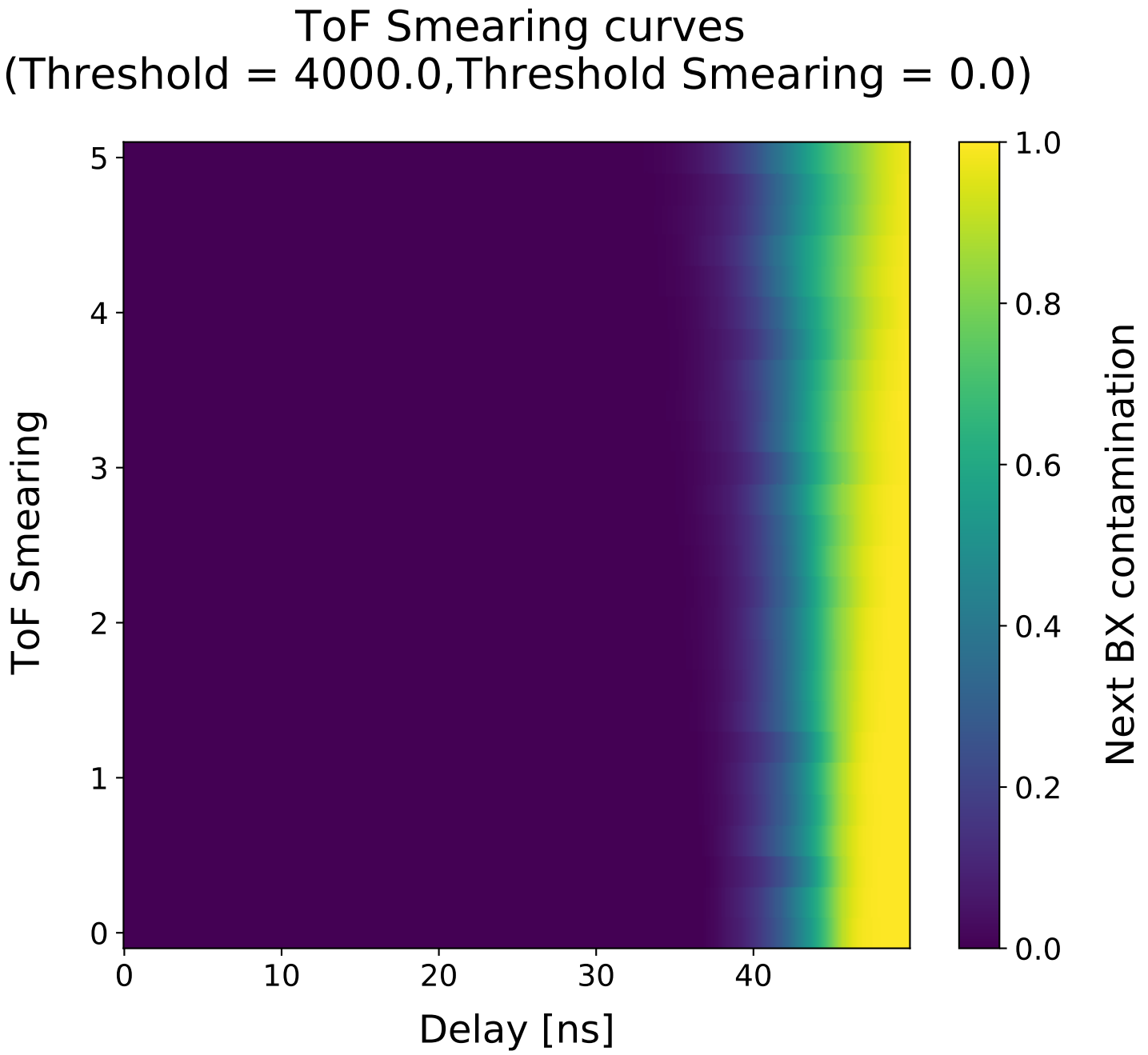

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

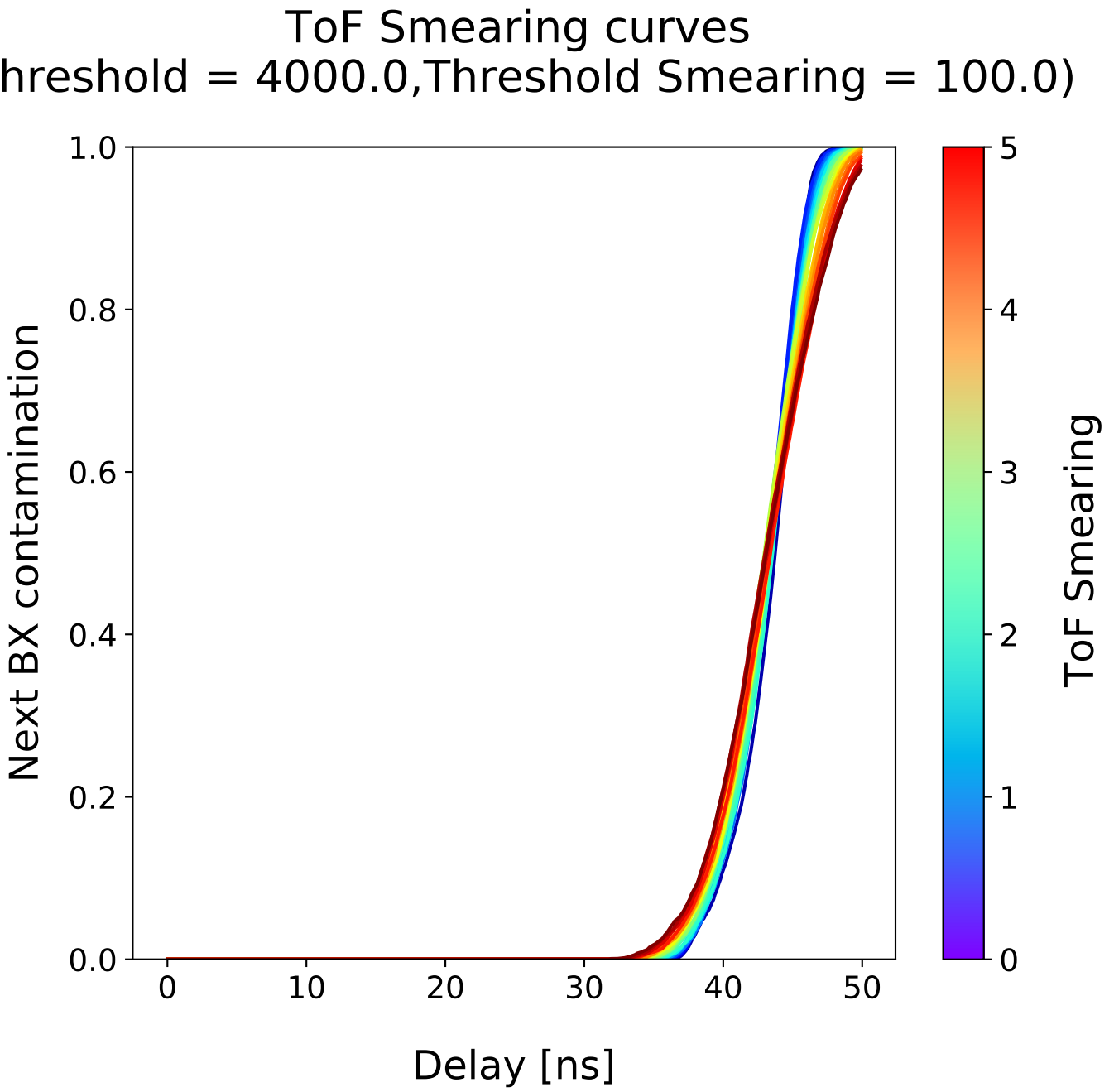

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

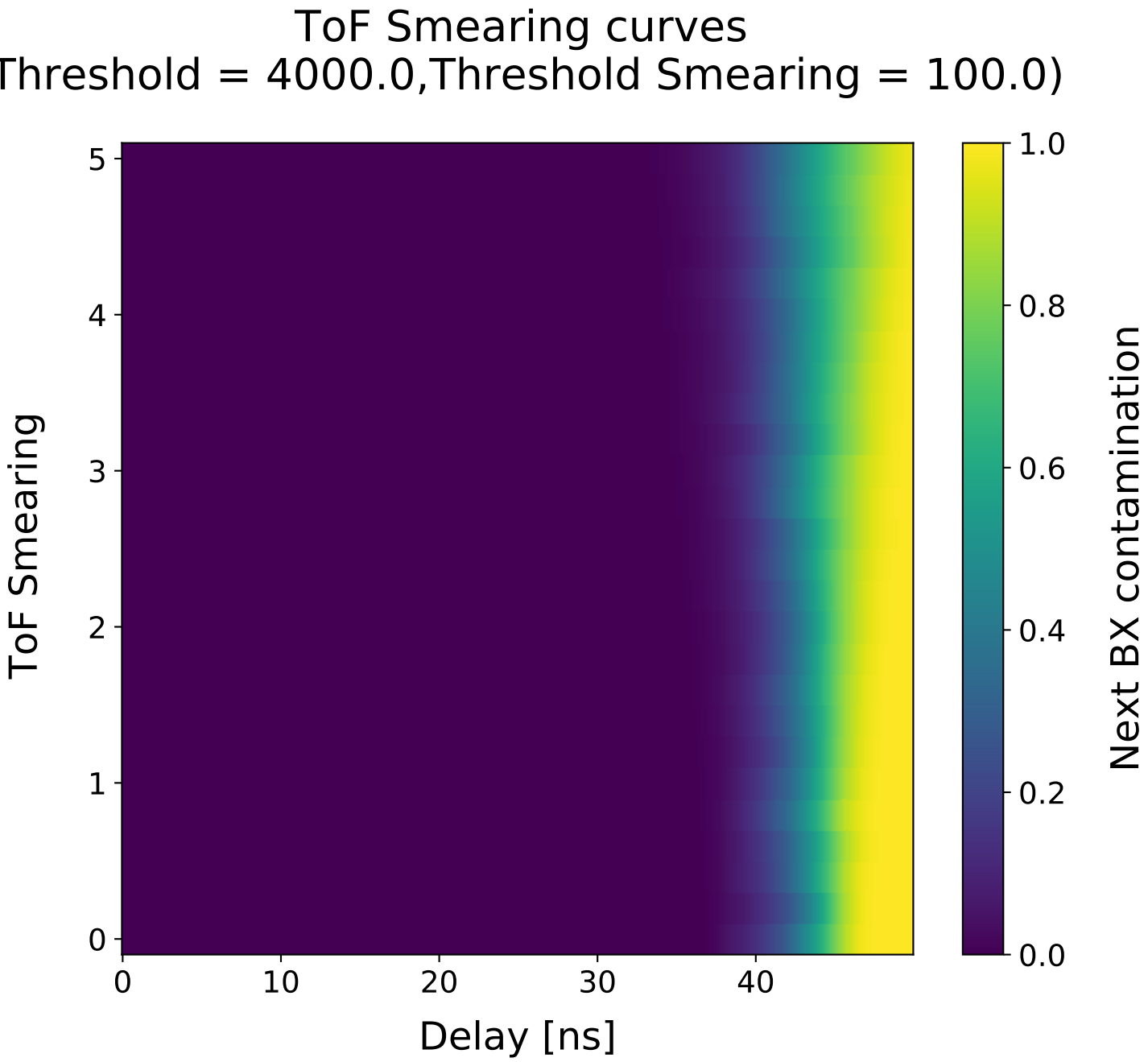

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

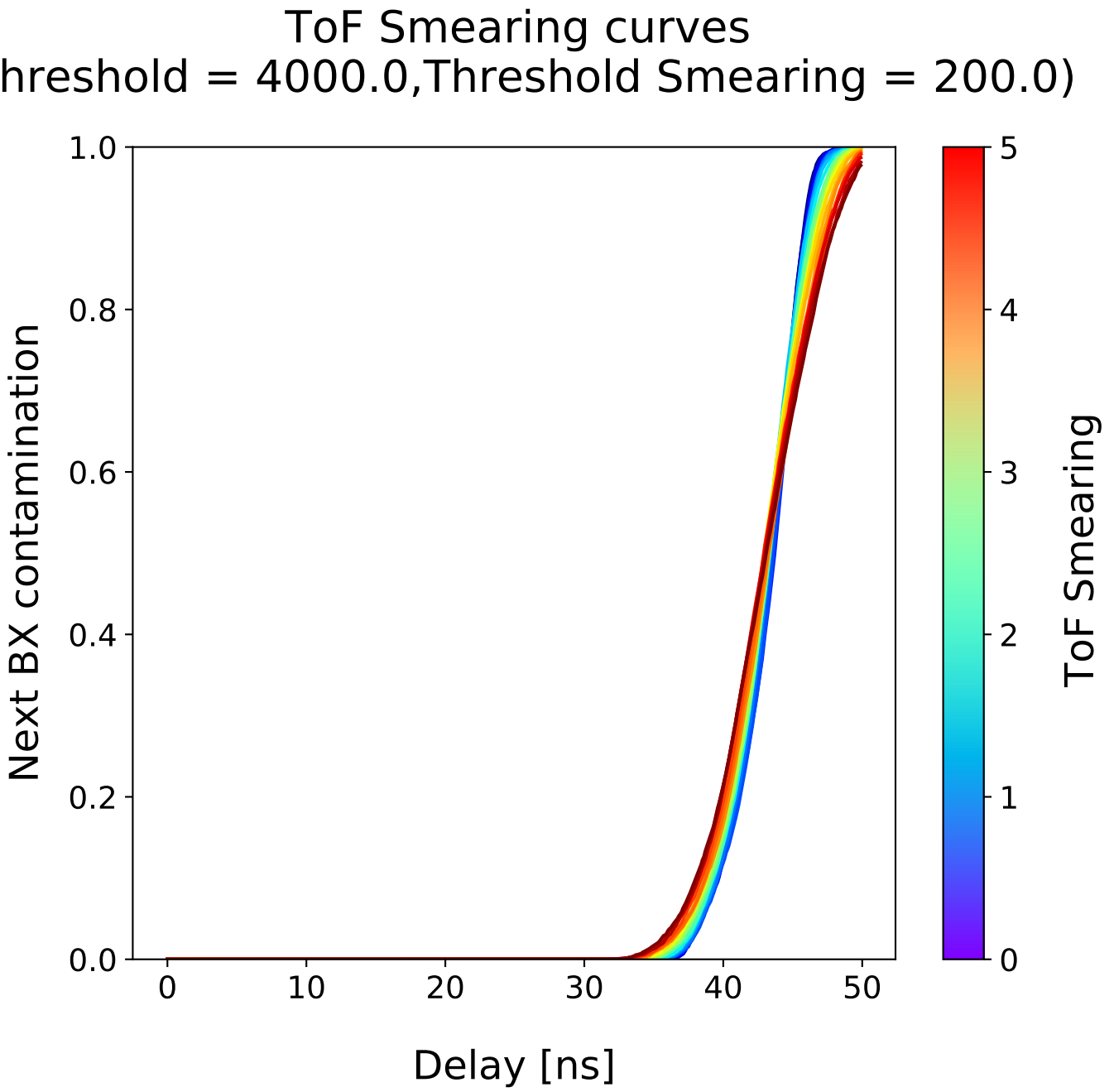

ToF Smearing curves
(Threshold = 3800.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

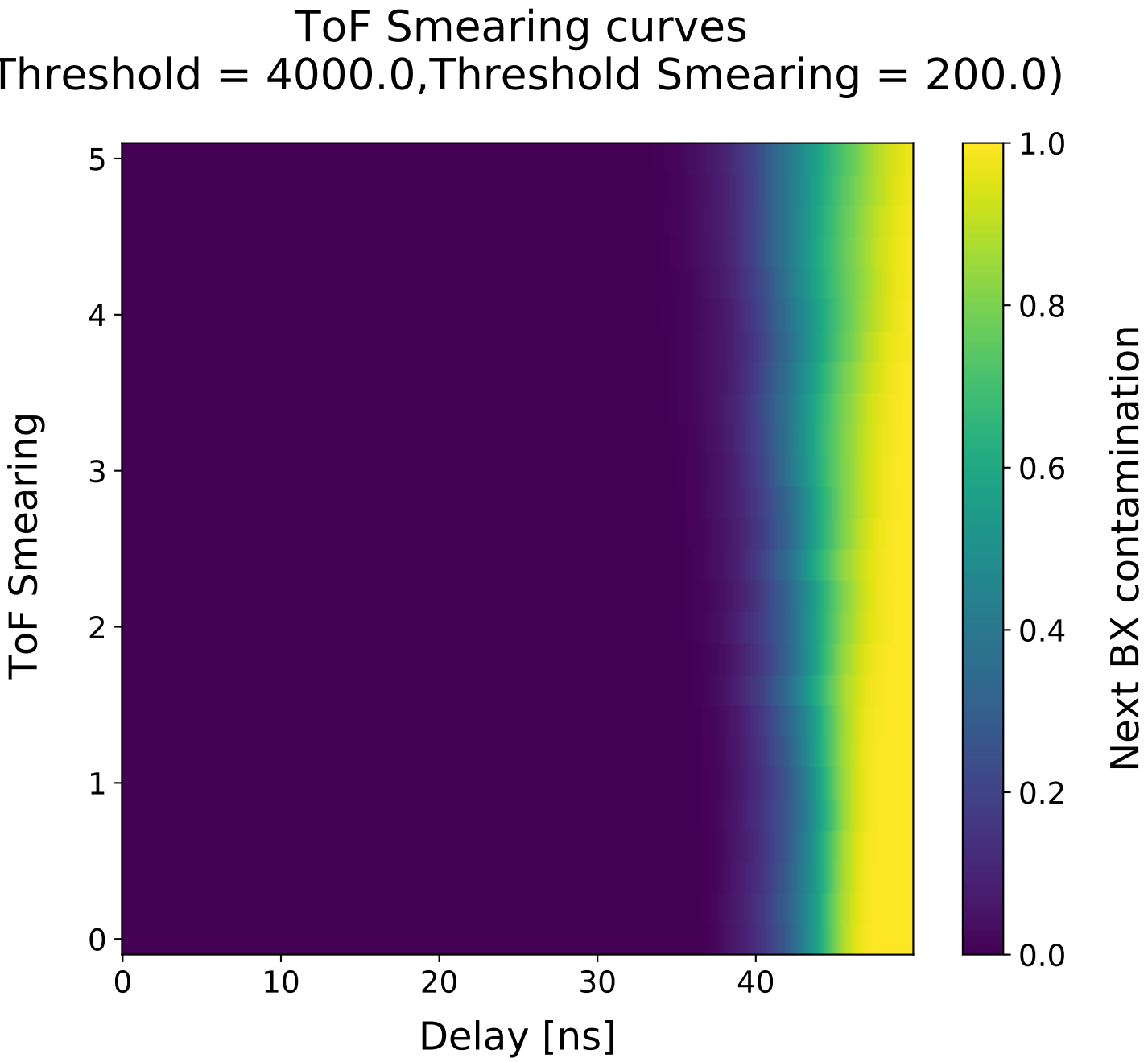

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

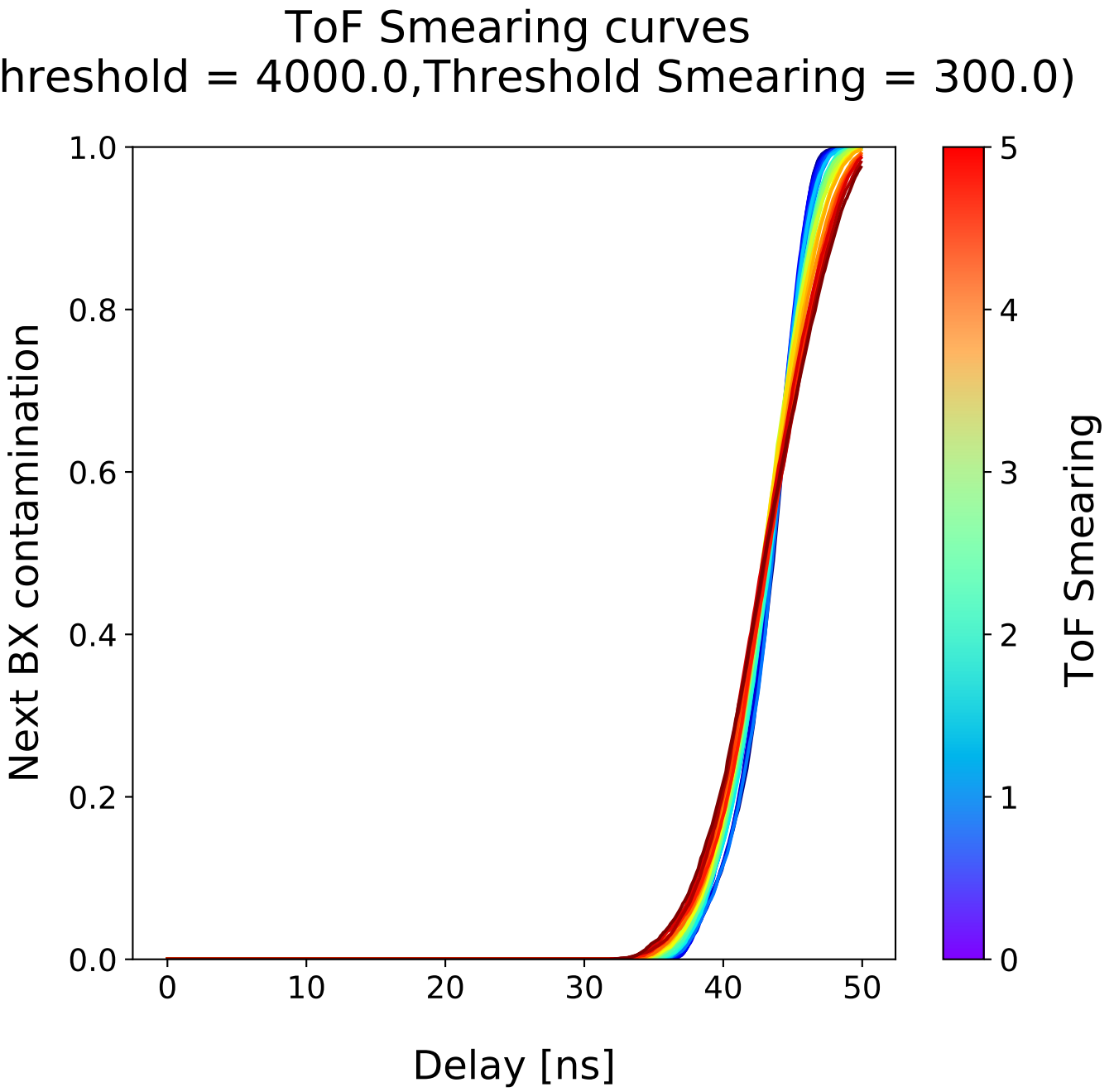

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

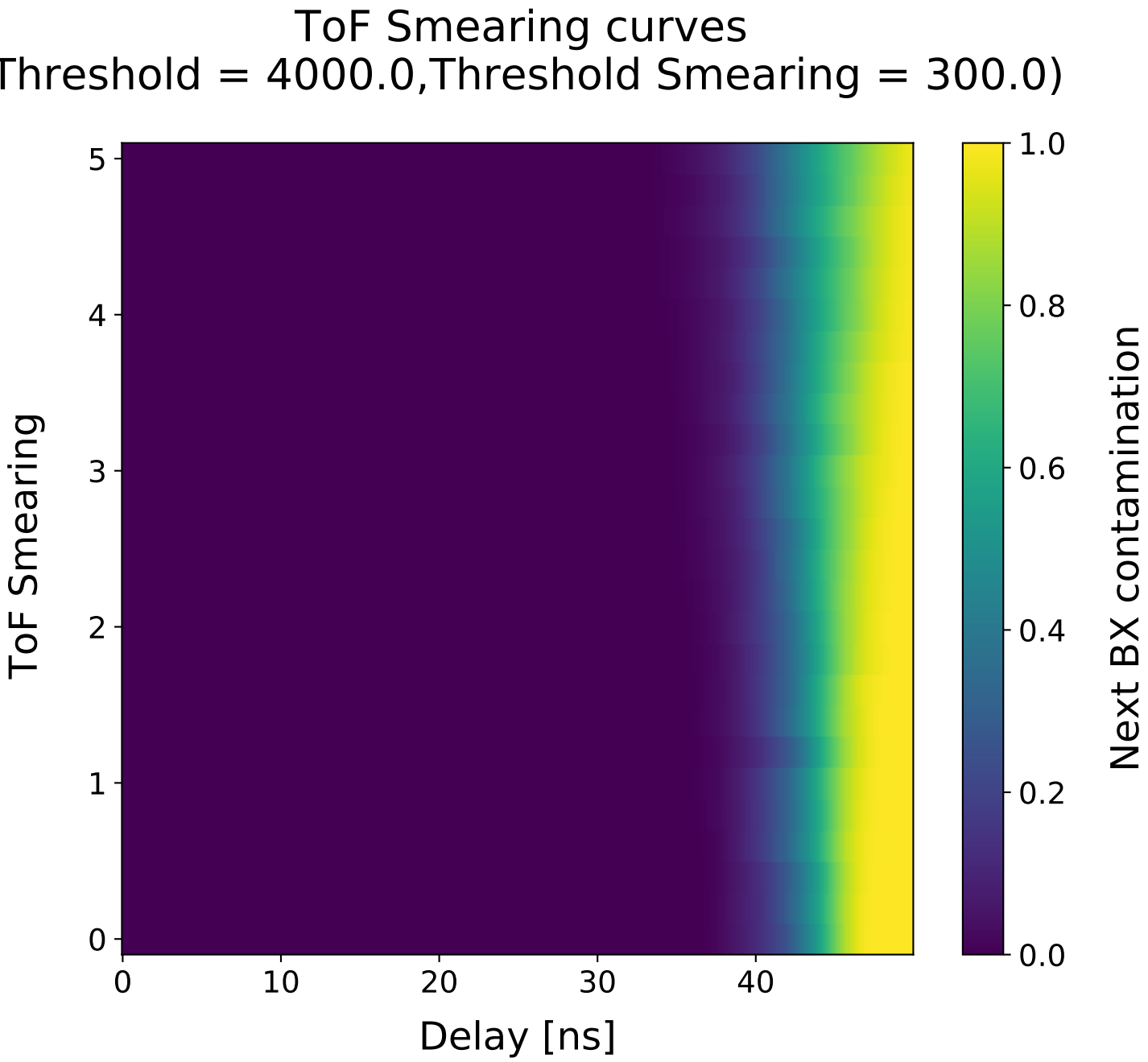

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

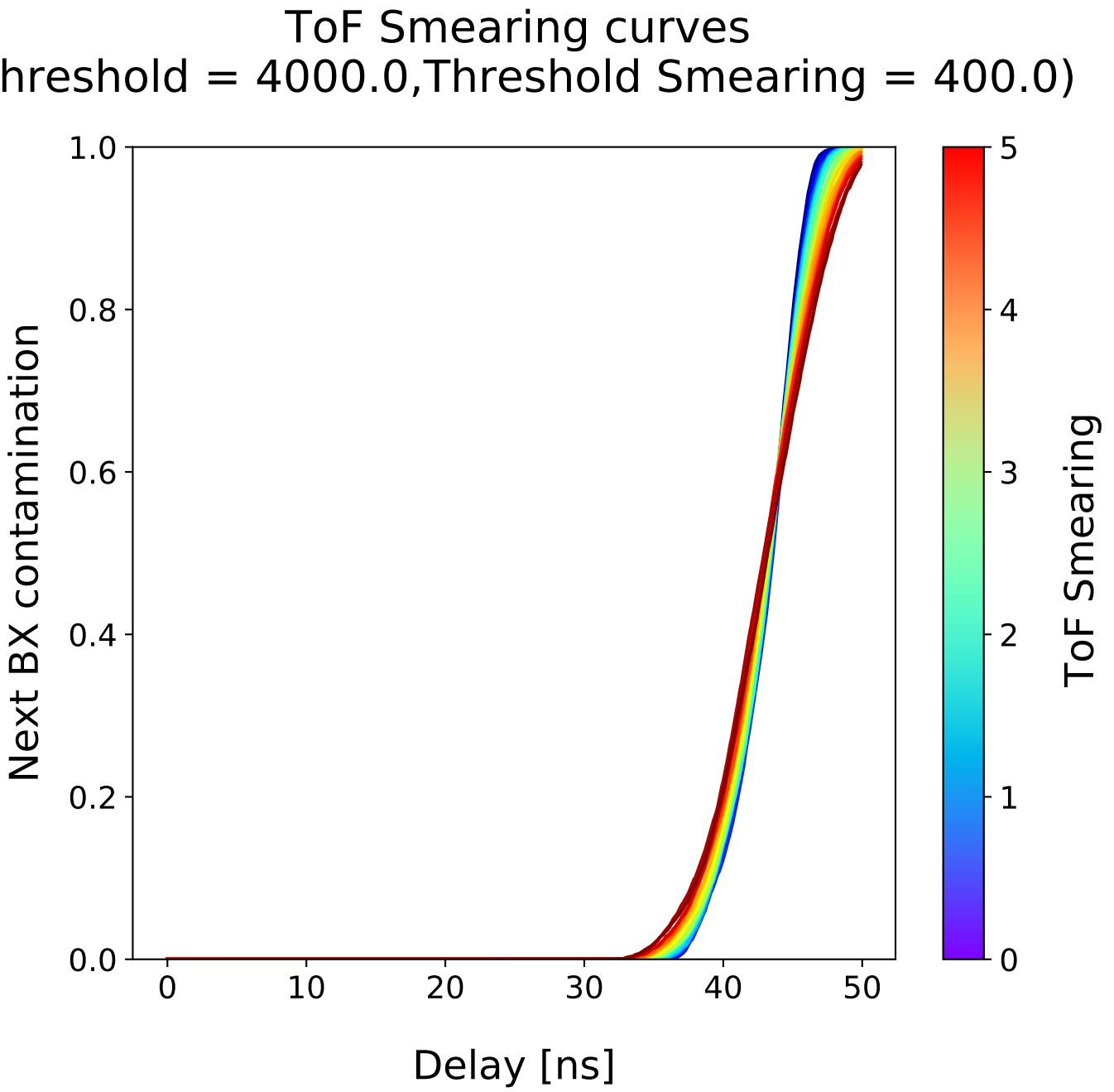

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

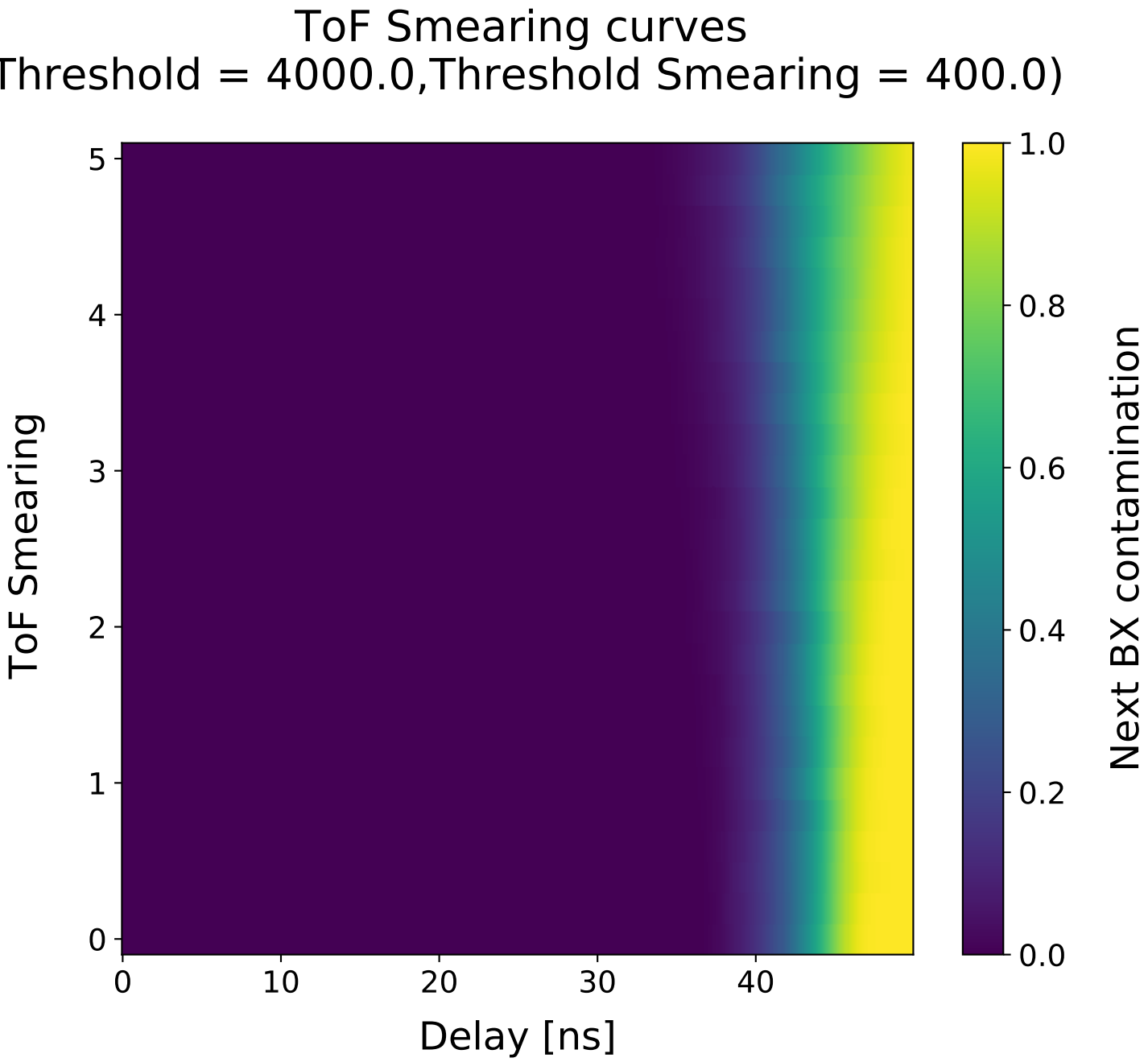

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

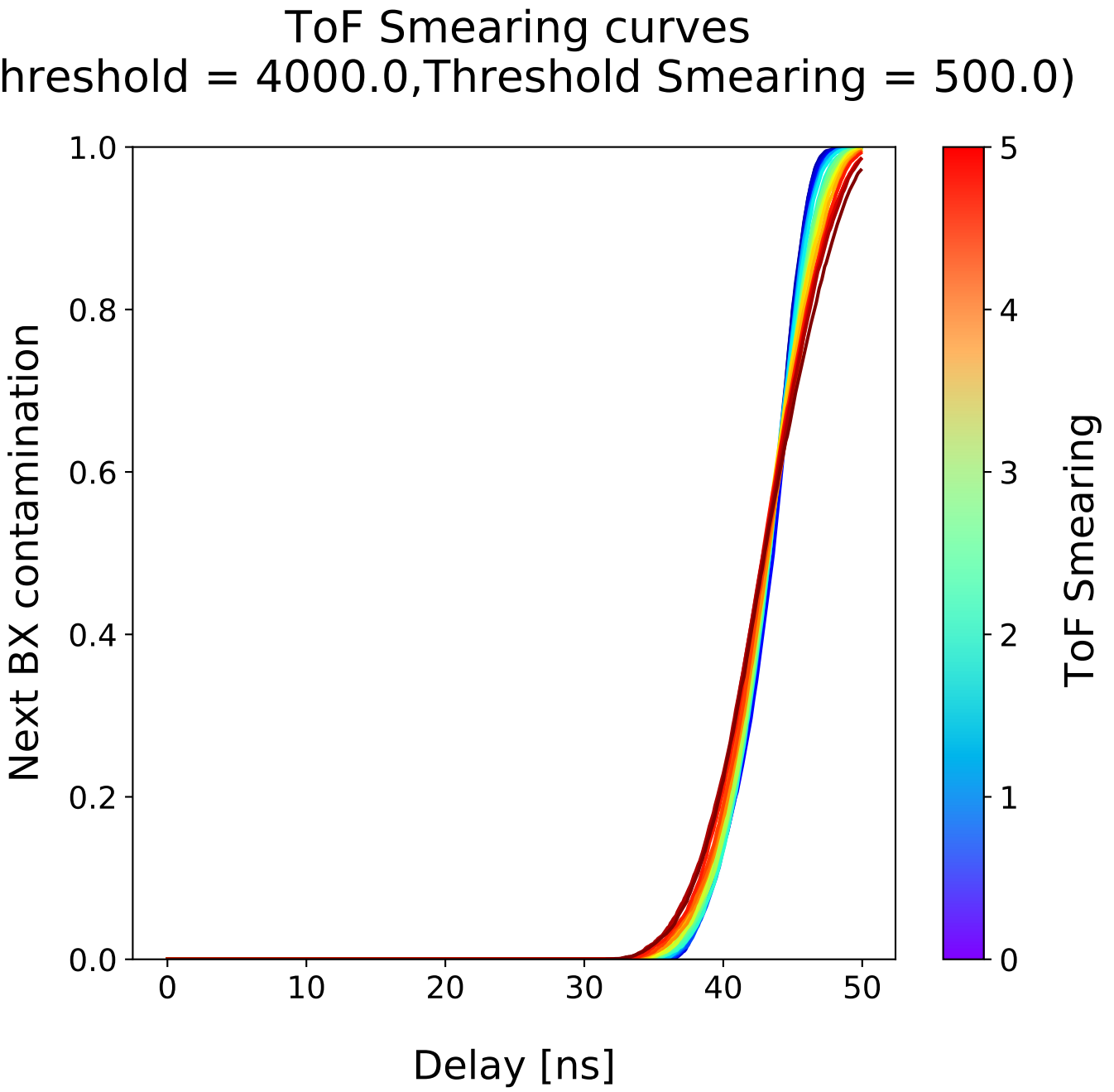

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

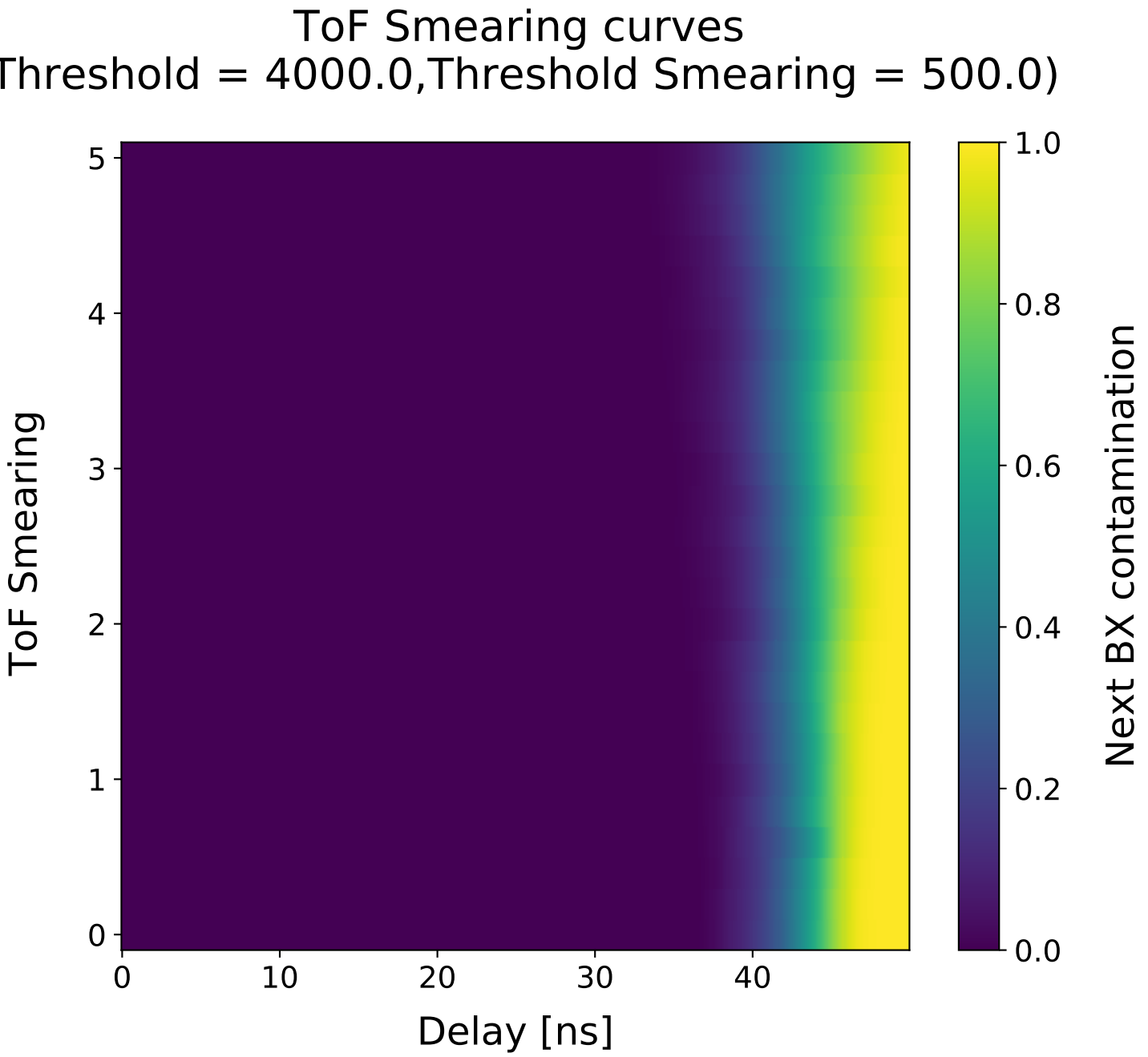

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

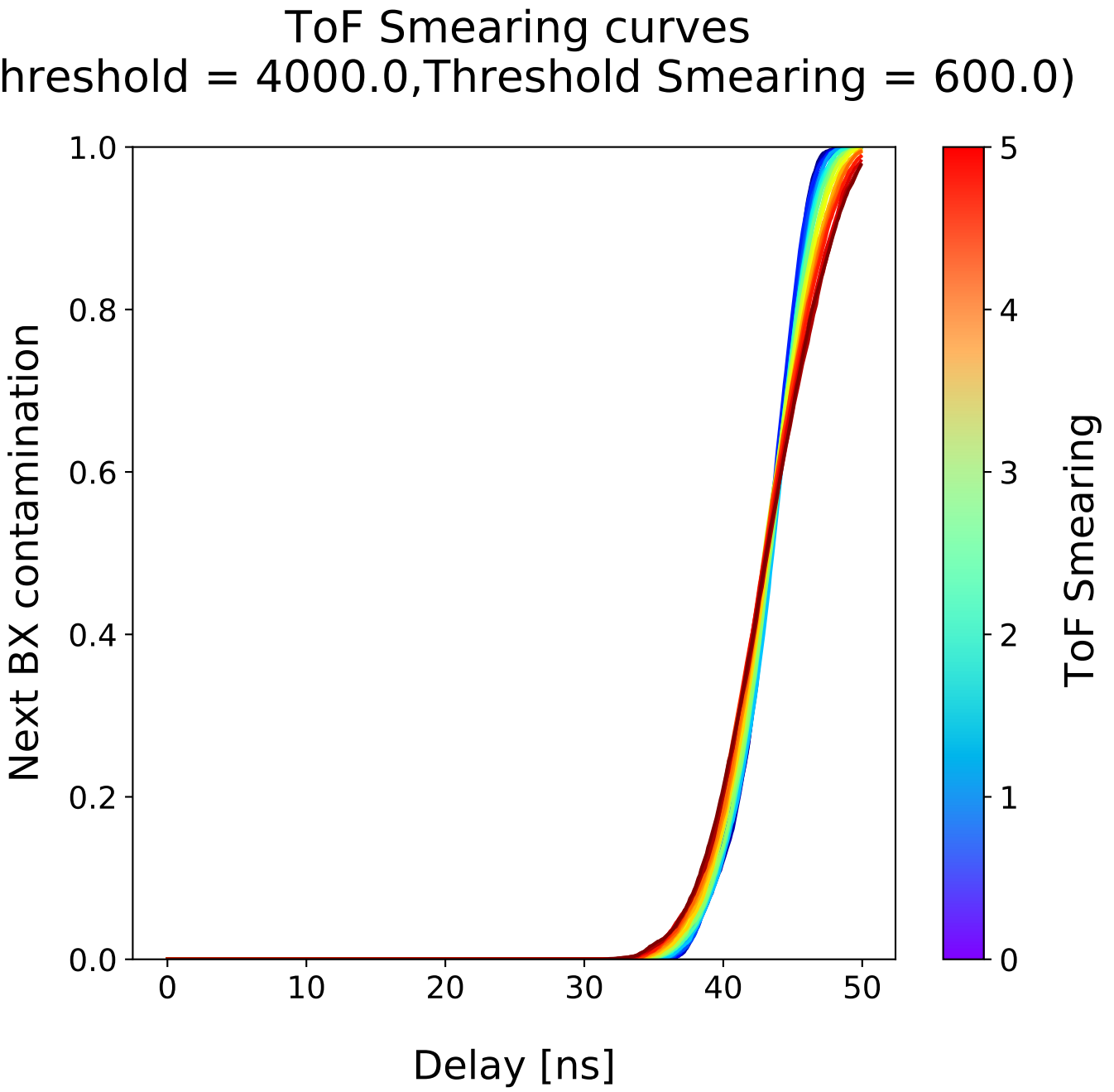

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

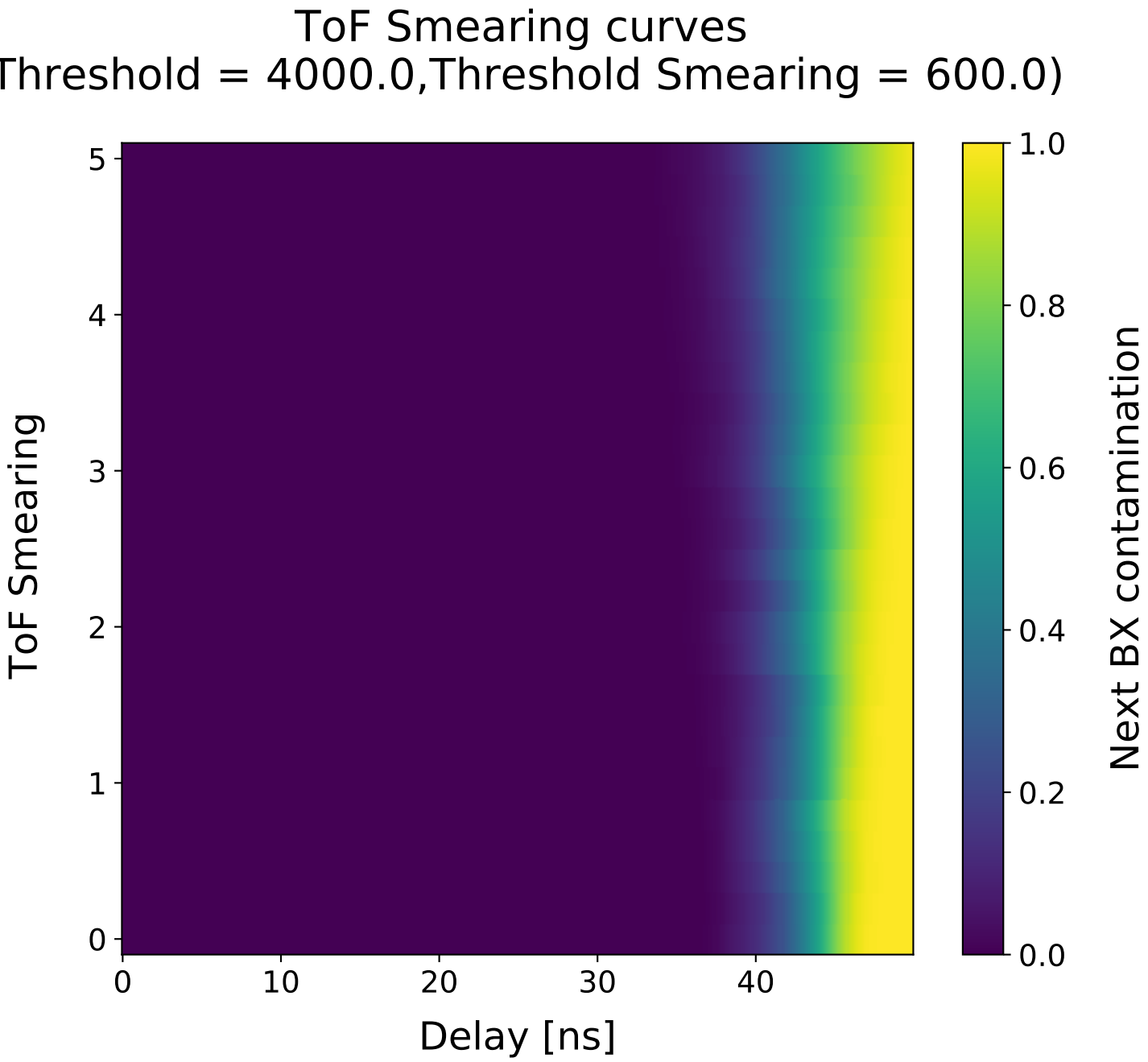

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

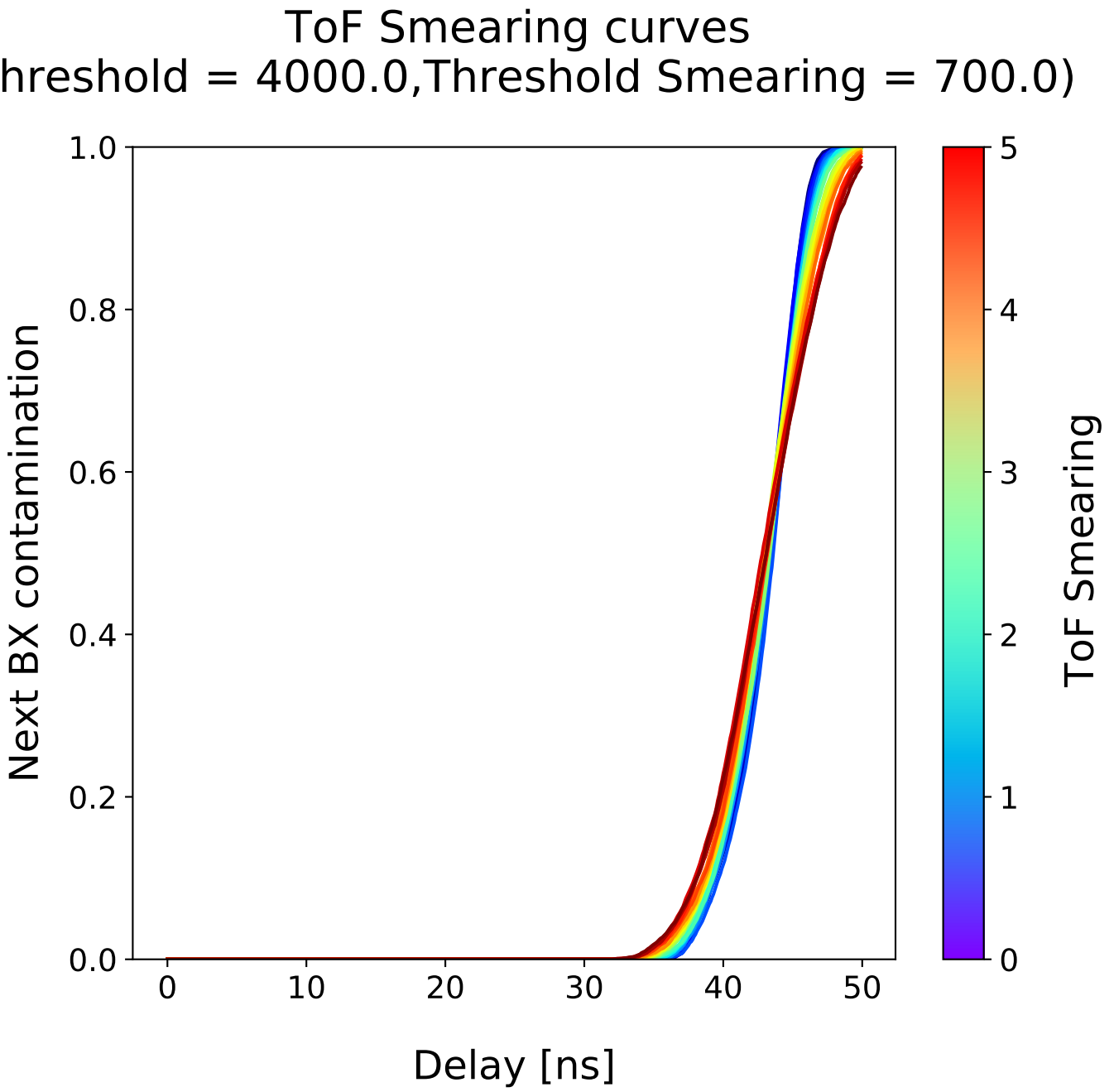

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

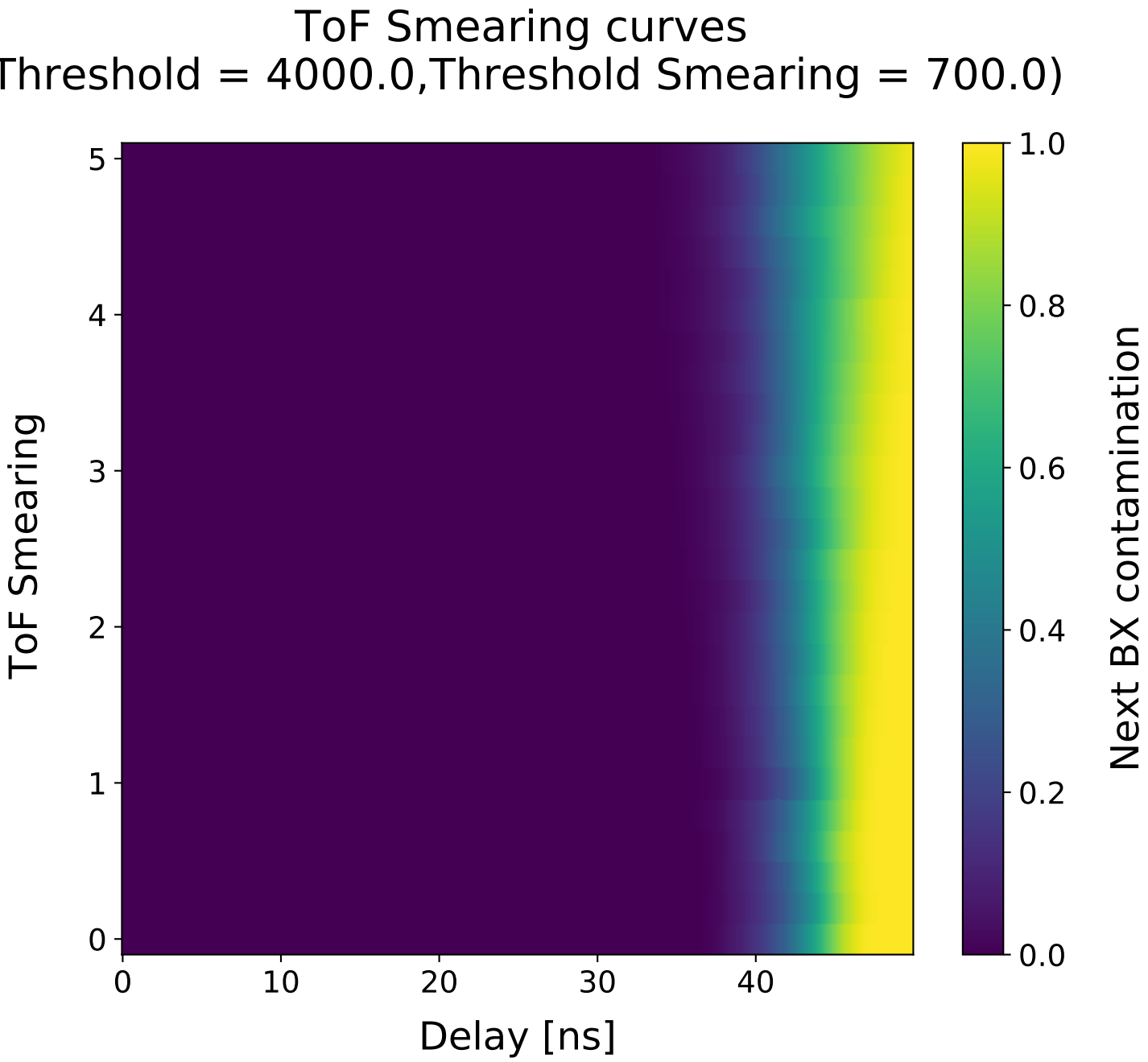

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

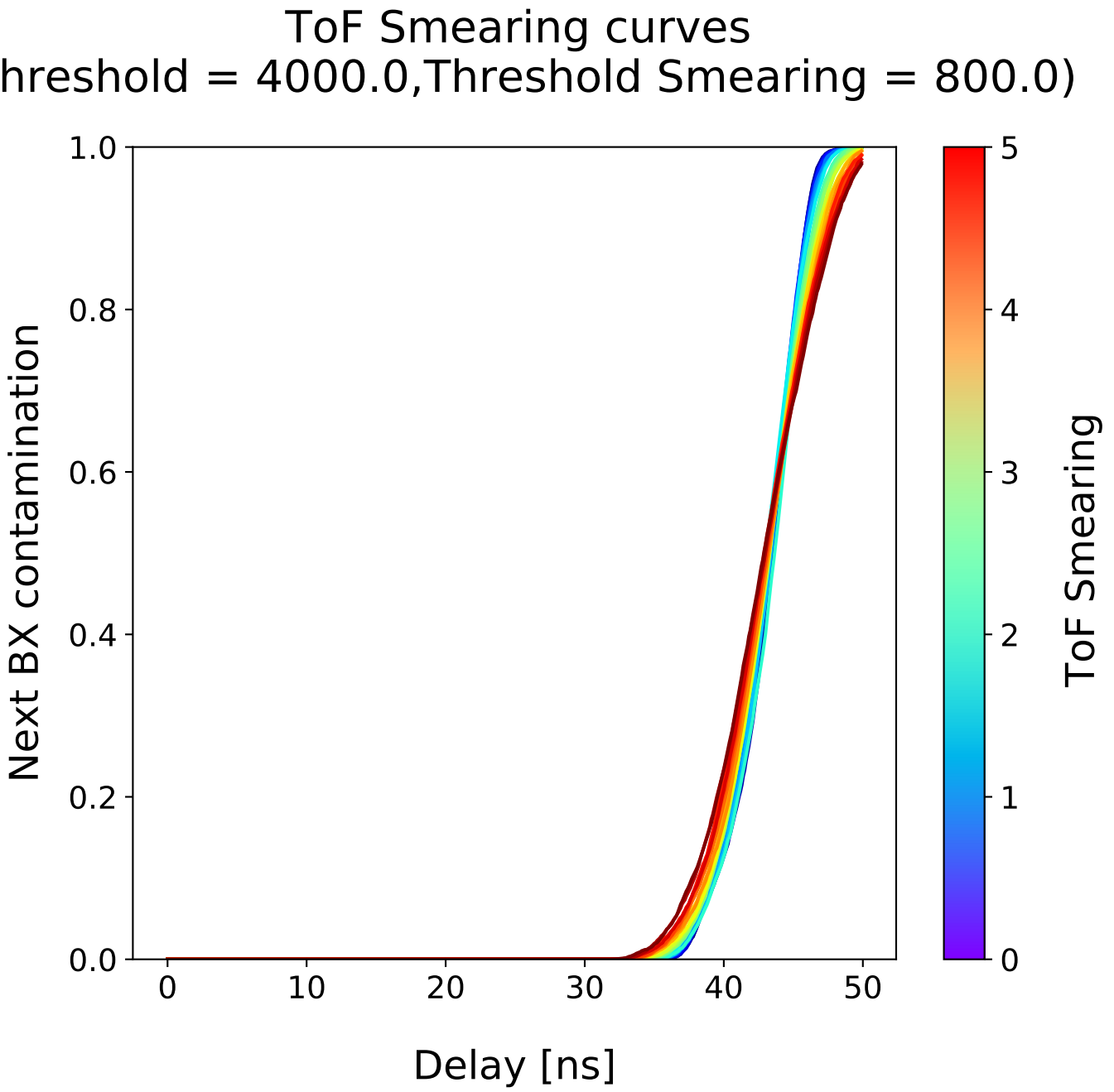

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

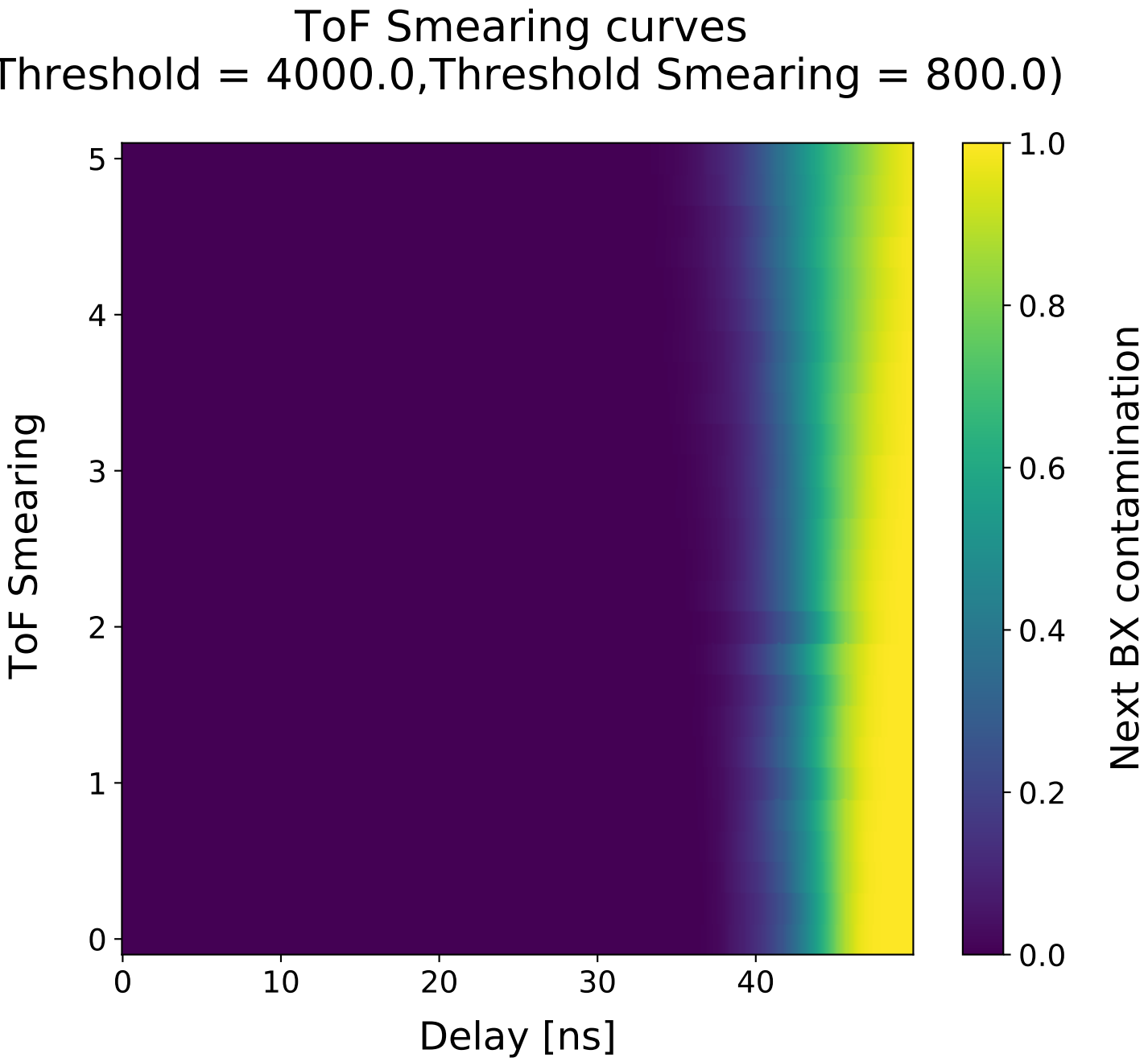

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

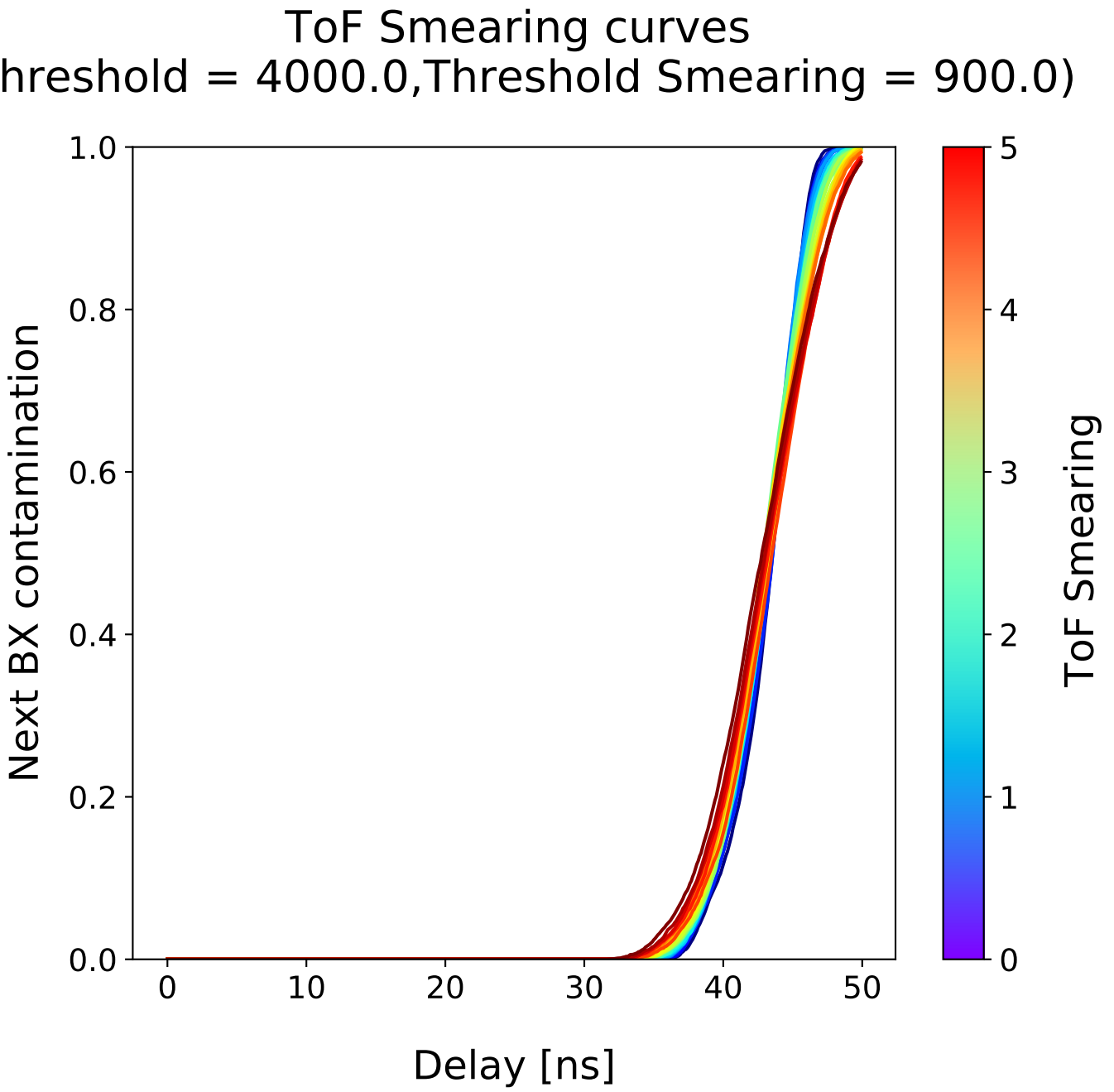

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

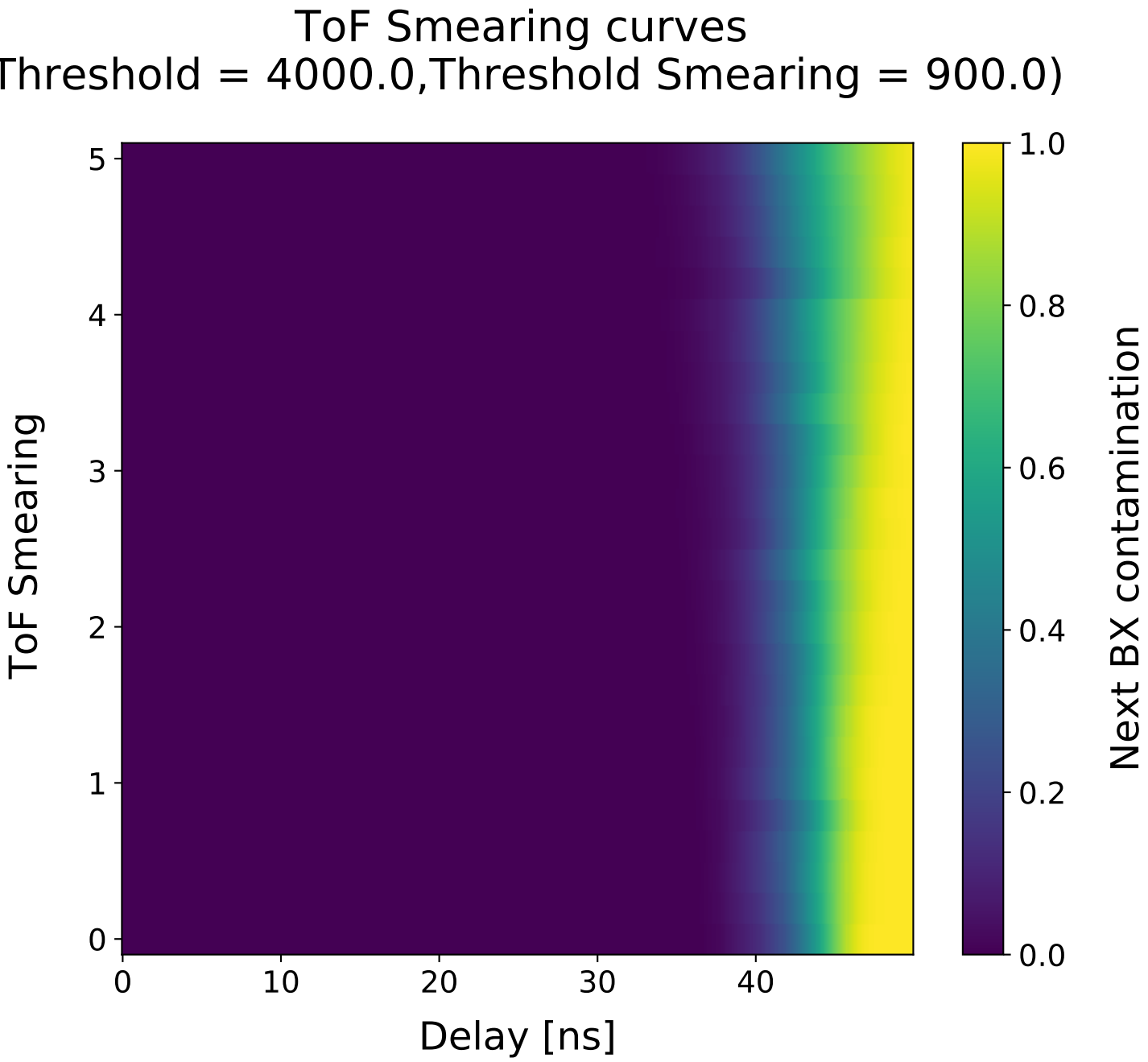

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

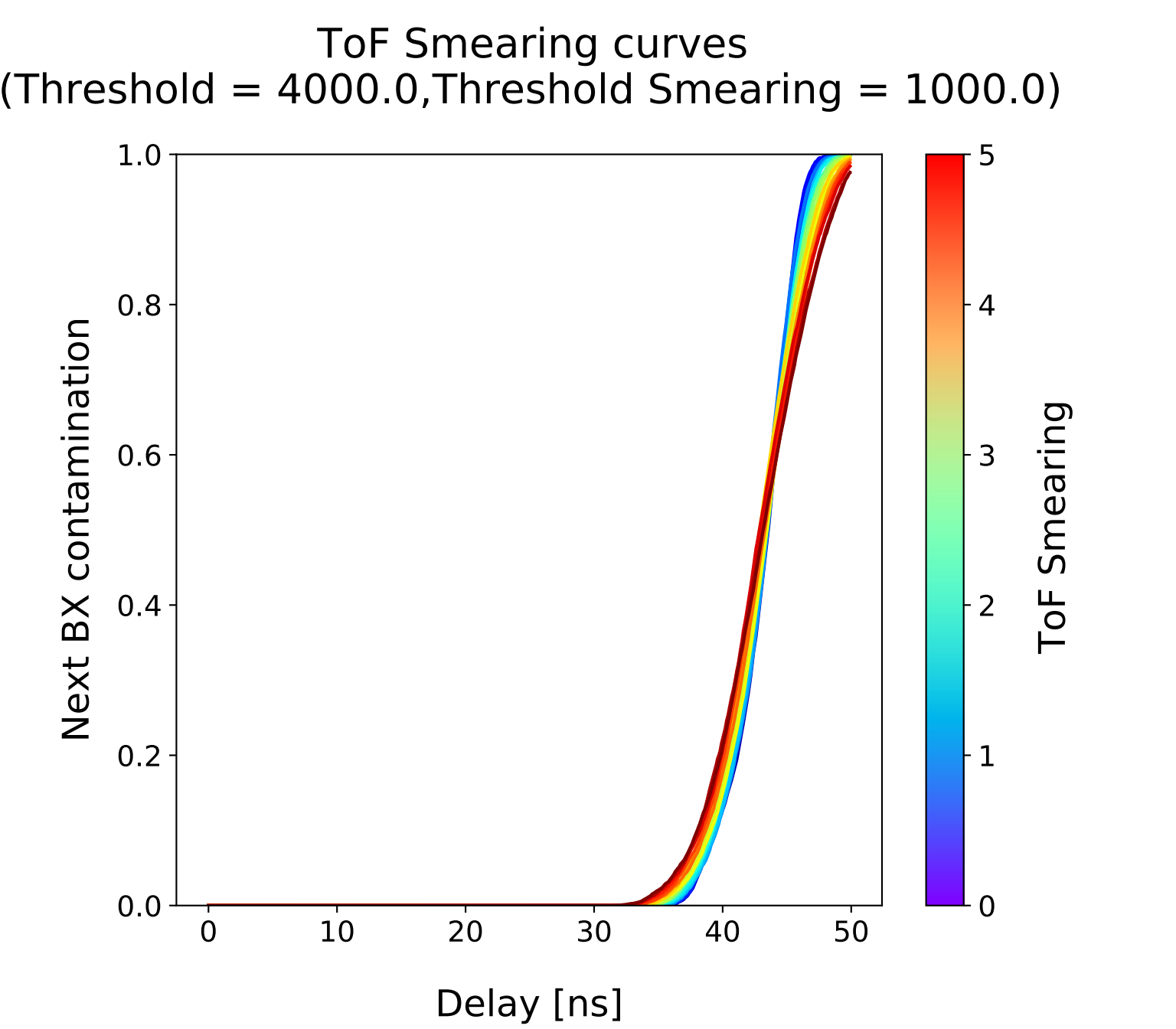

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

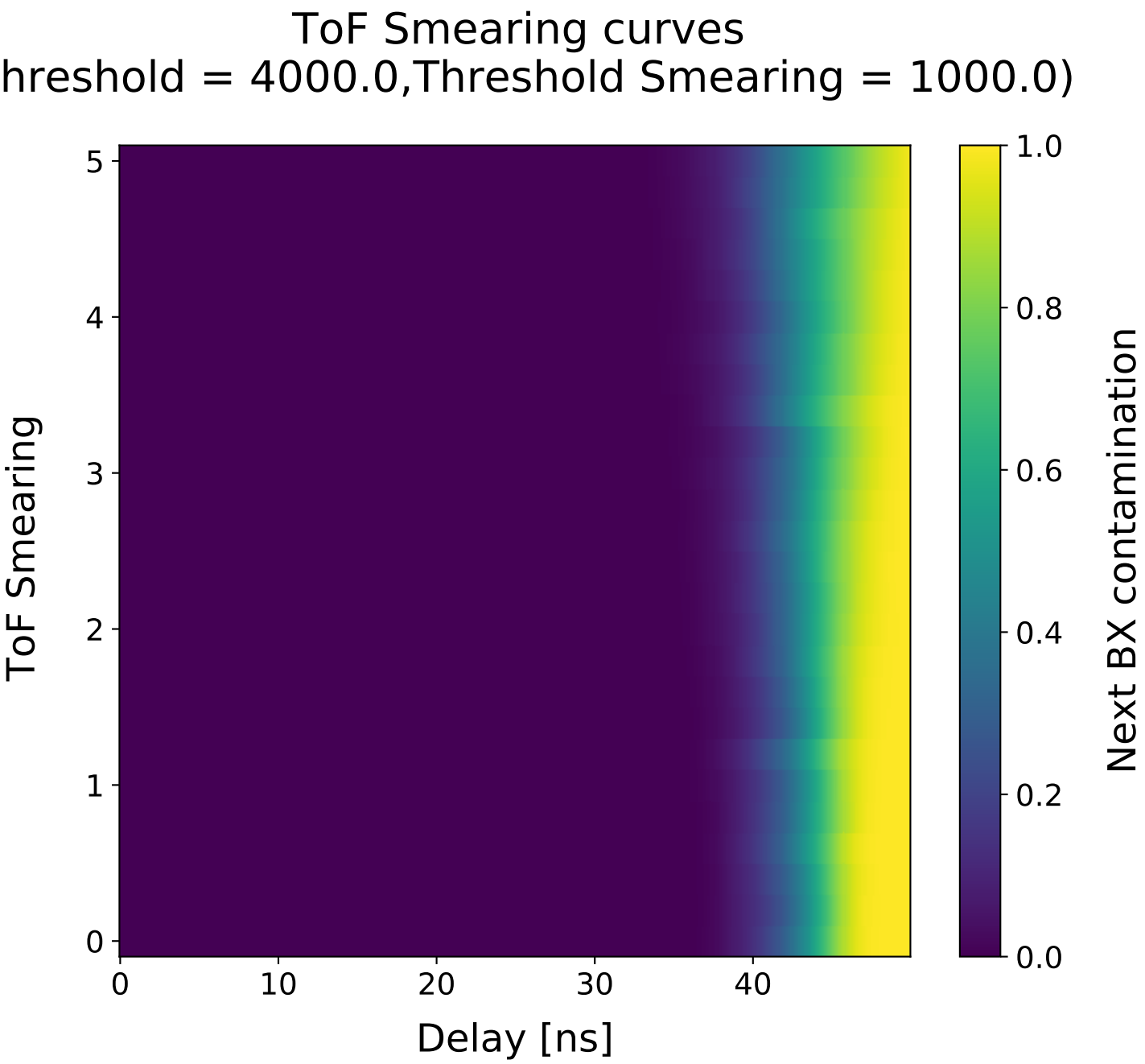

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

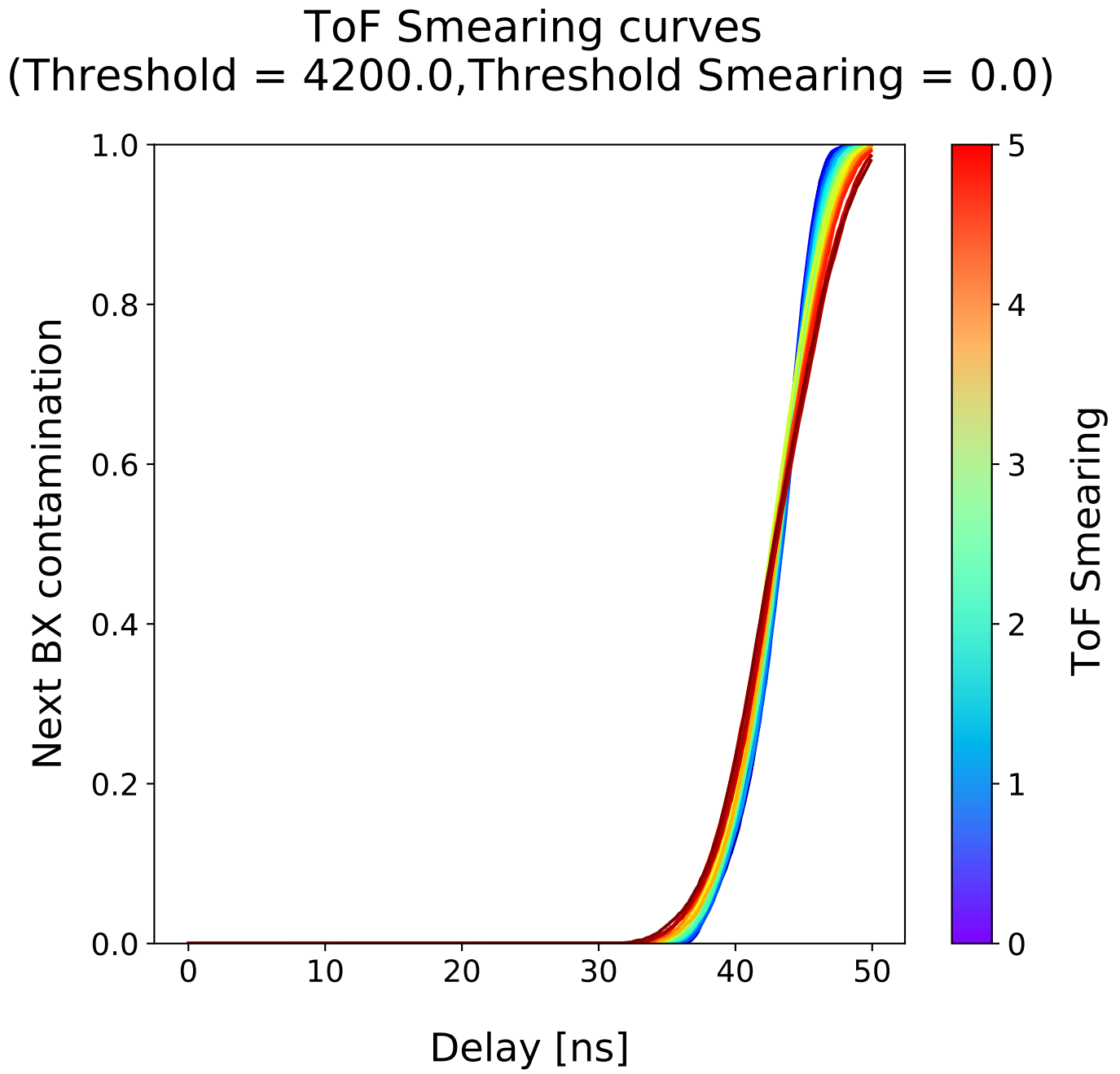

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

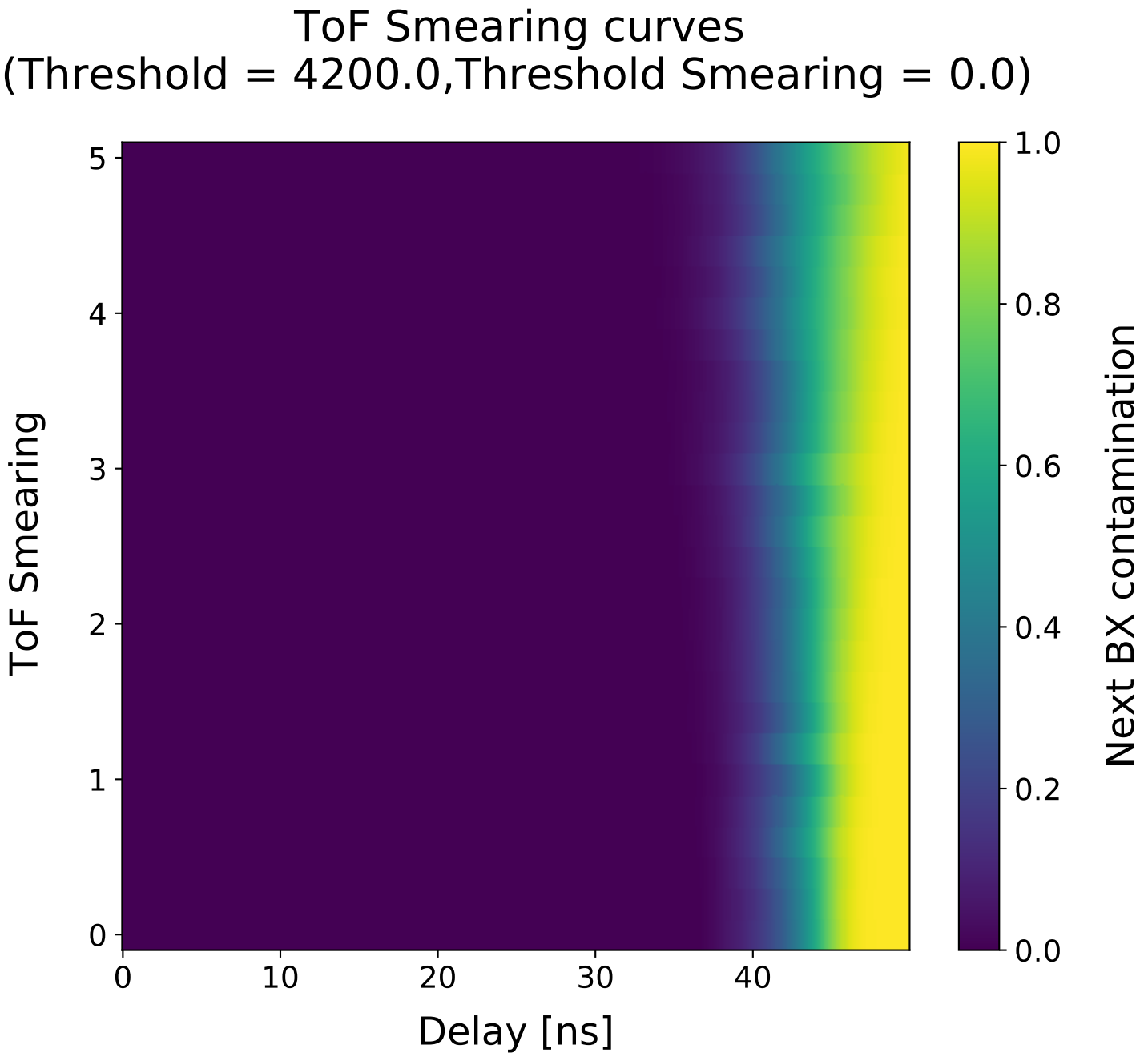

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

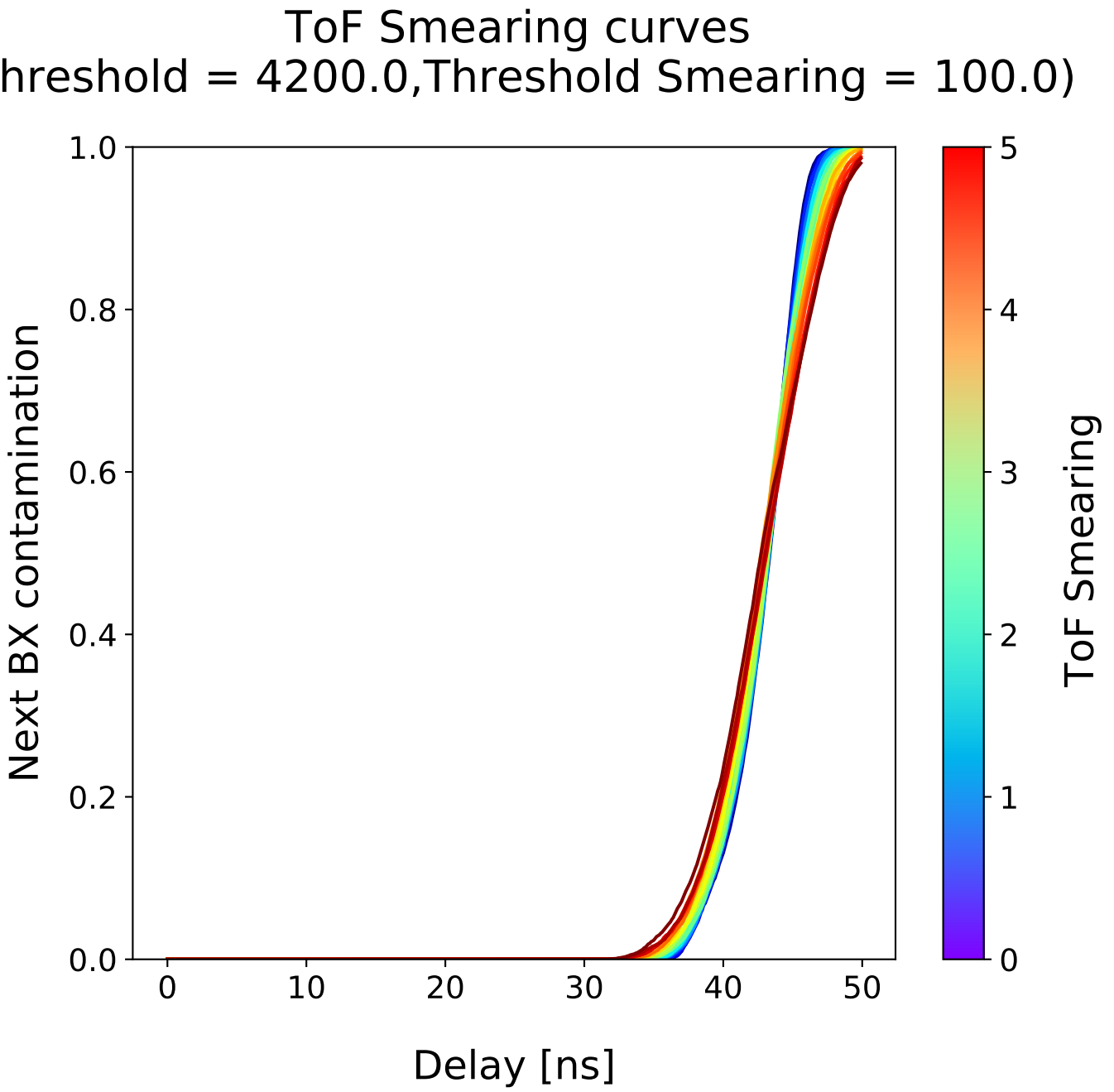

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

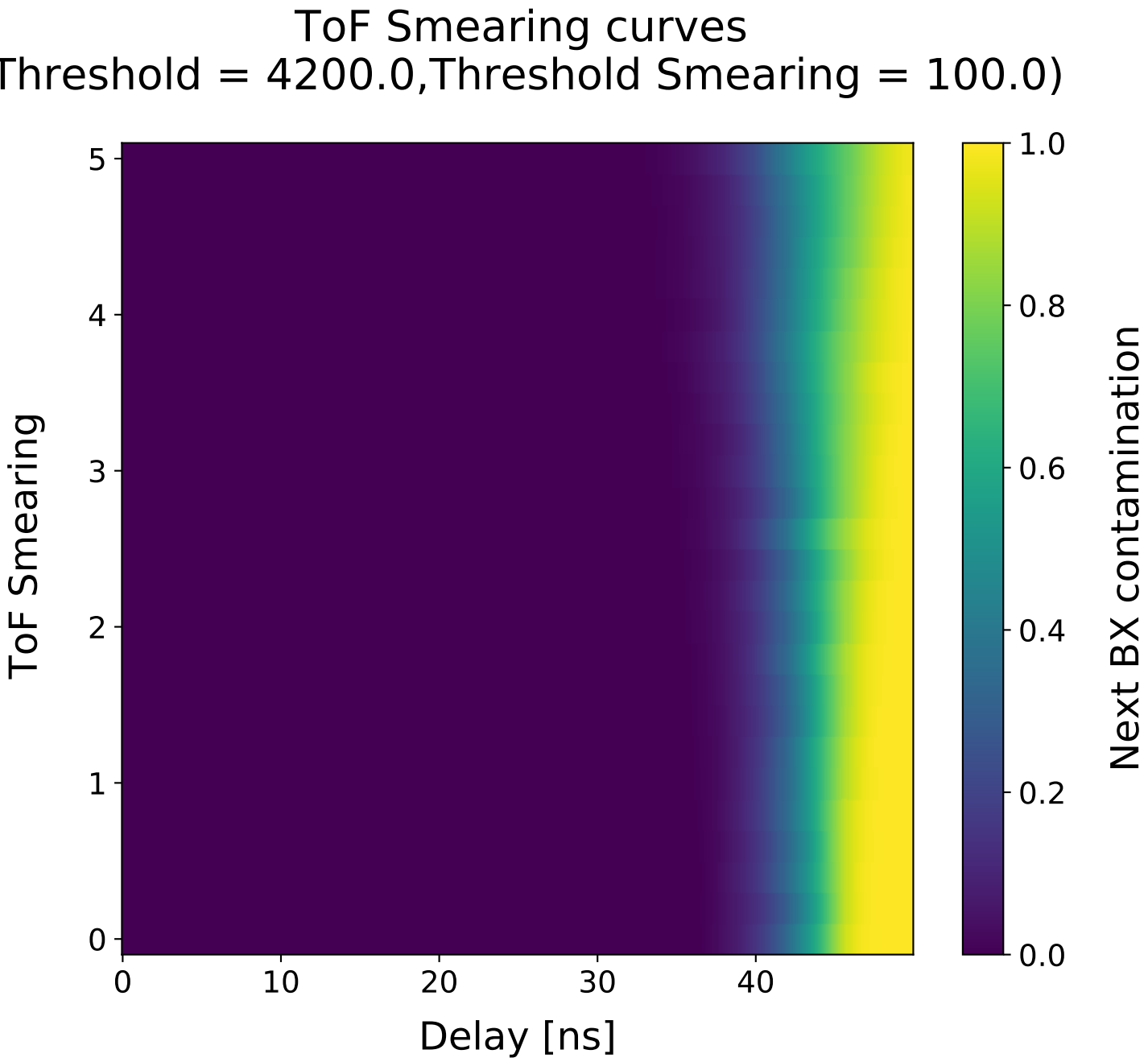

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
5
4
3
2
1
0

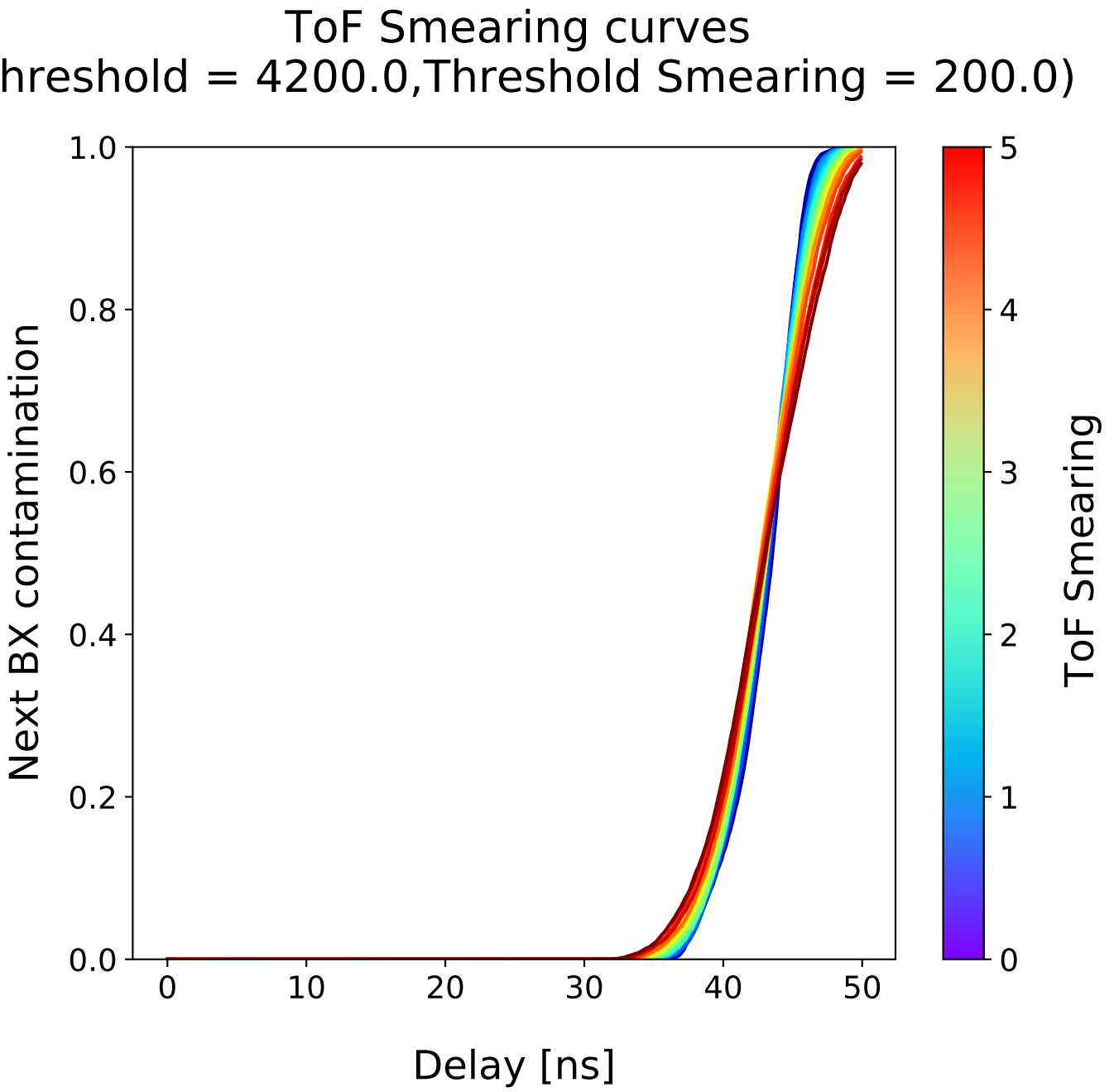

ToF Smearing curves
(Threshold = 4000.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

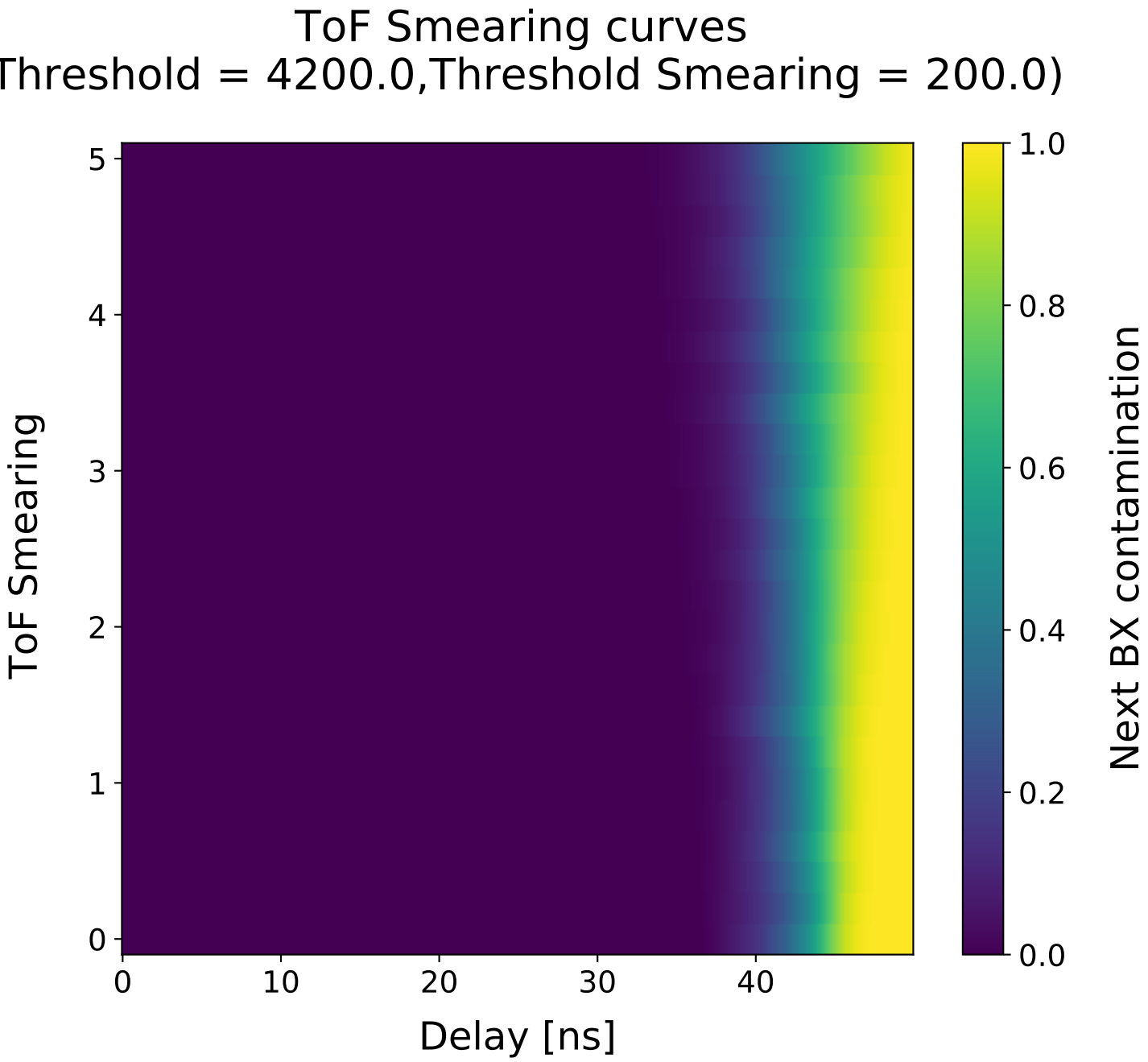

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

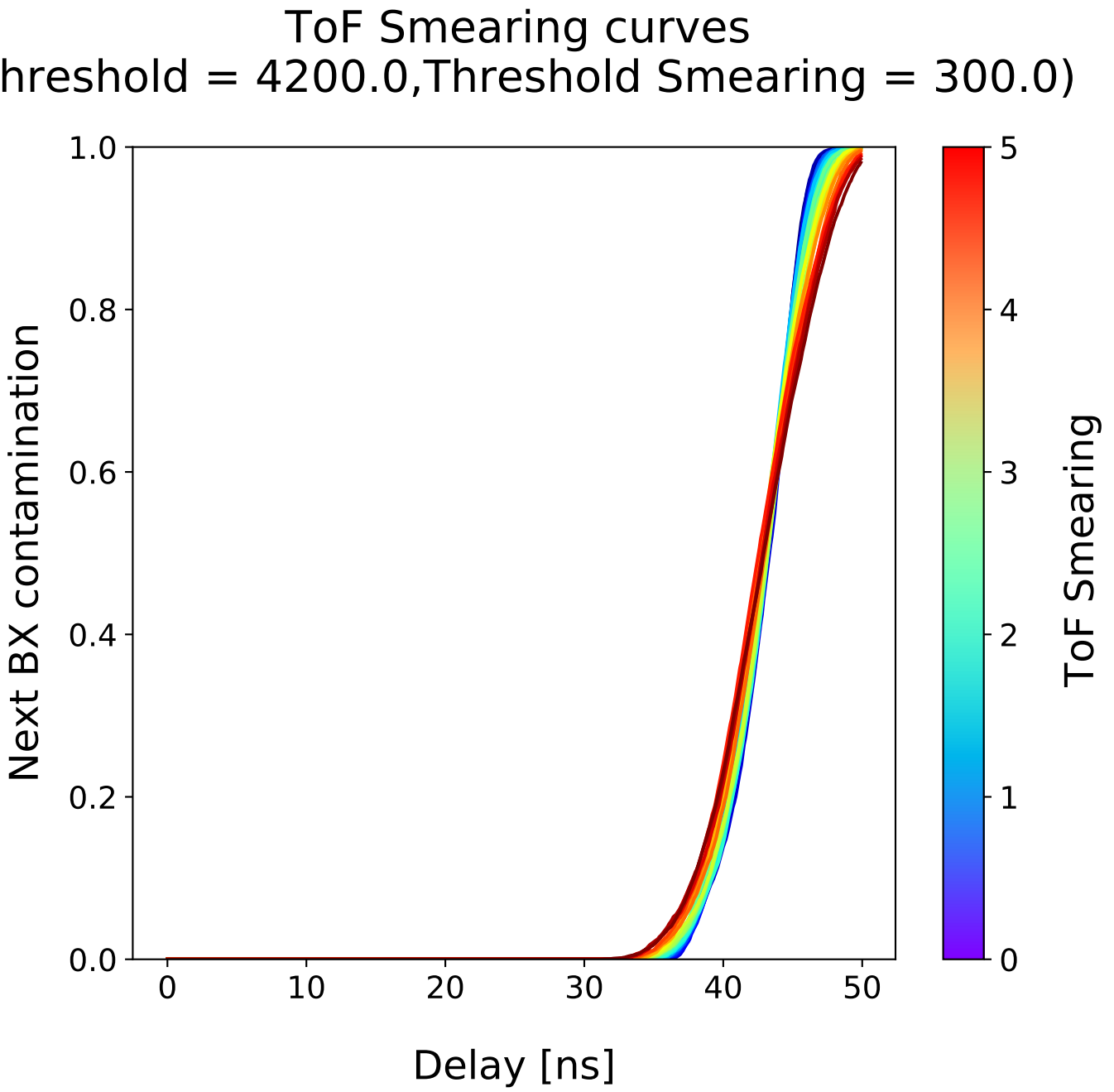

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

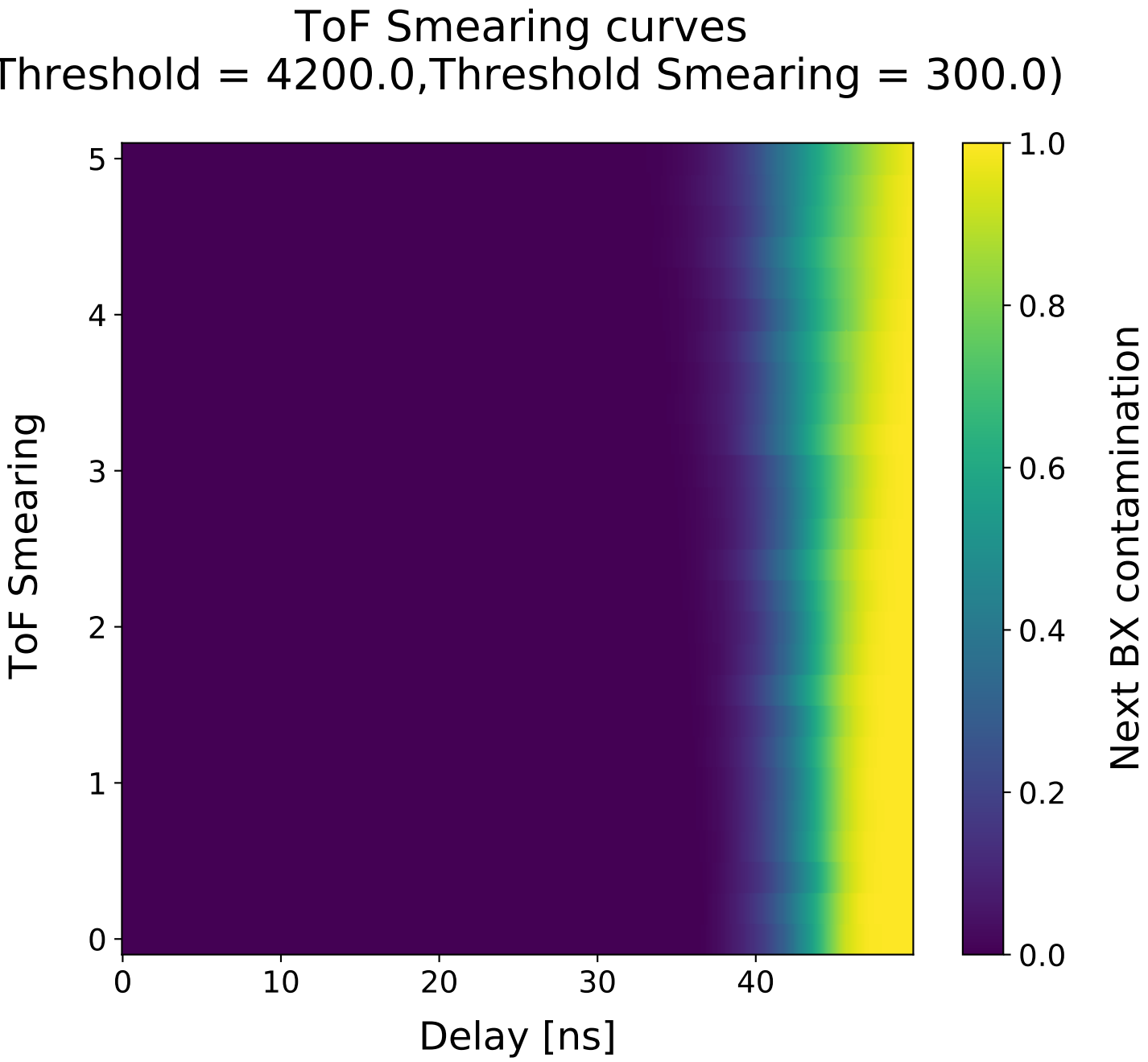

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

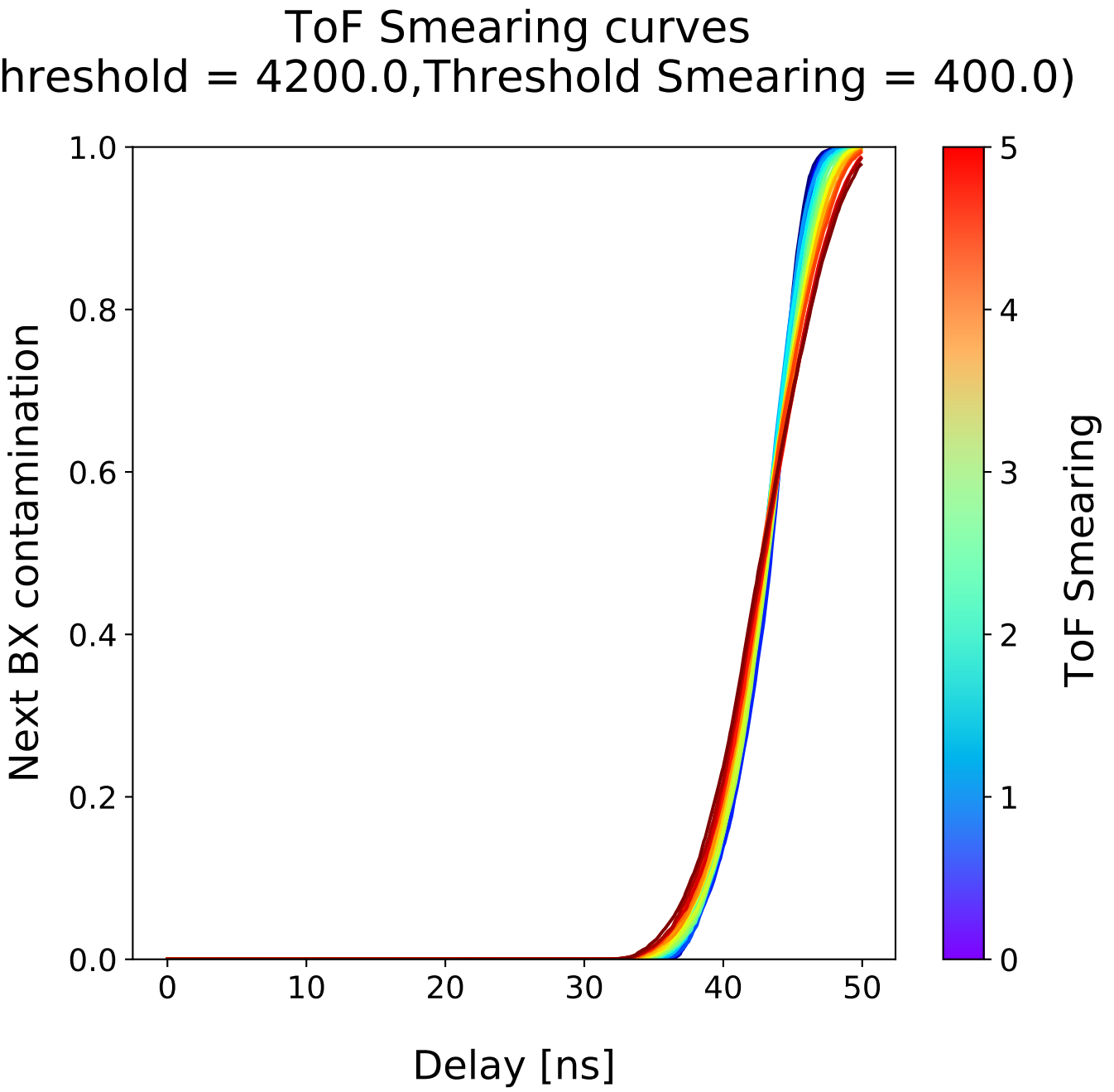

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

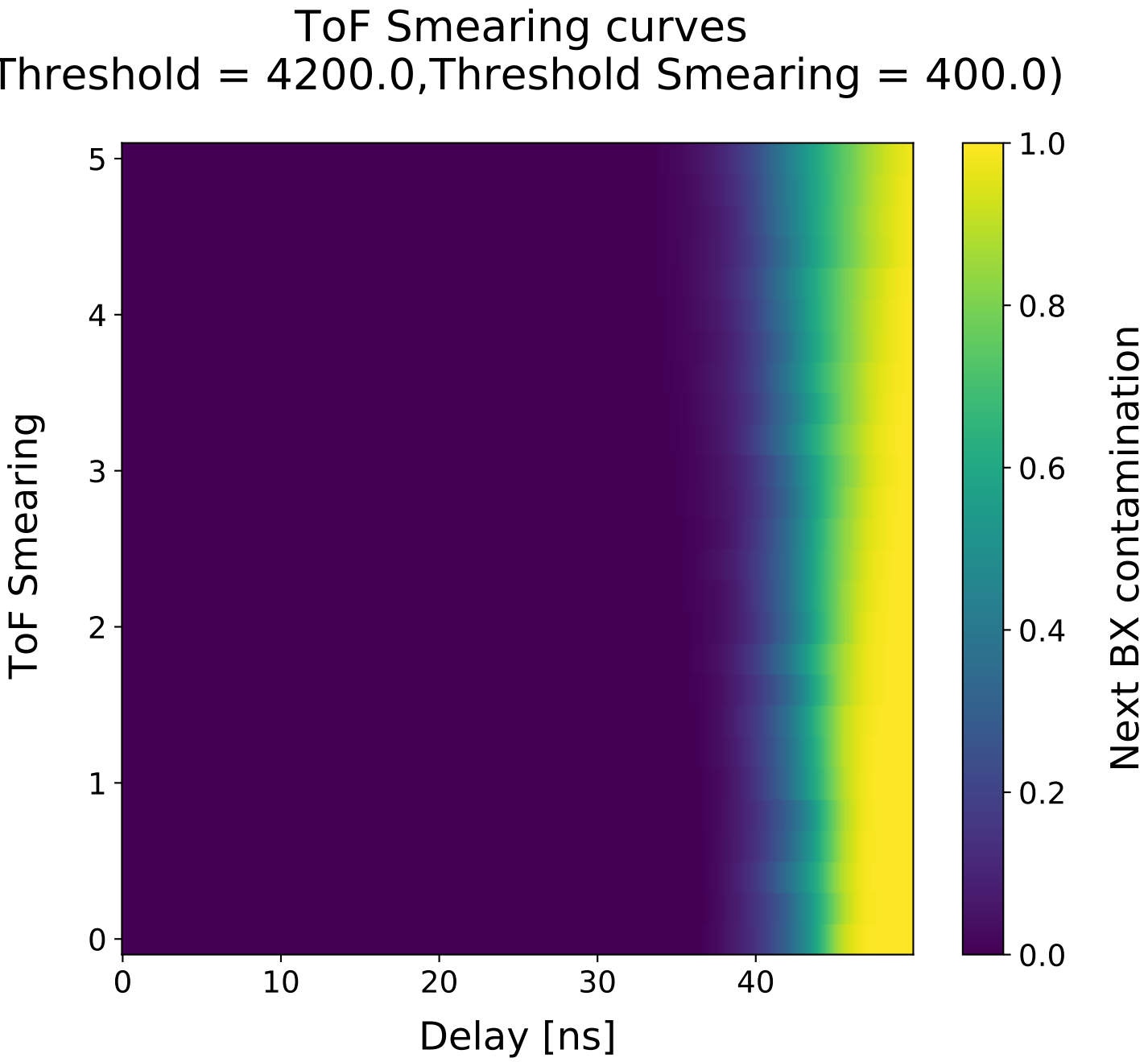

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

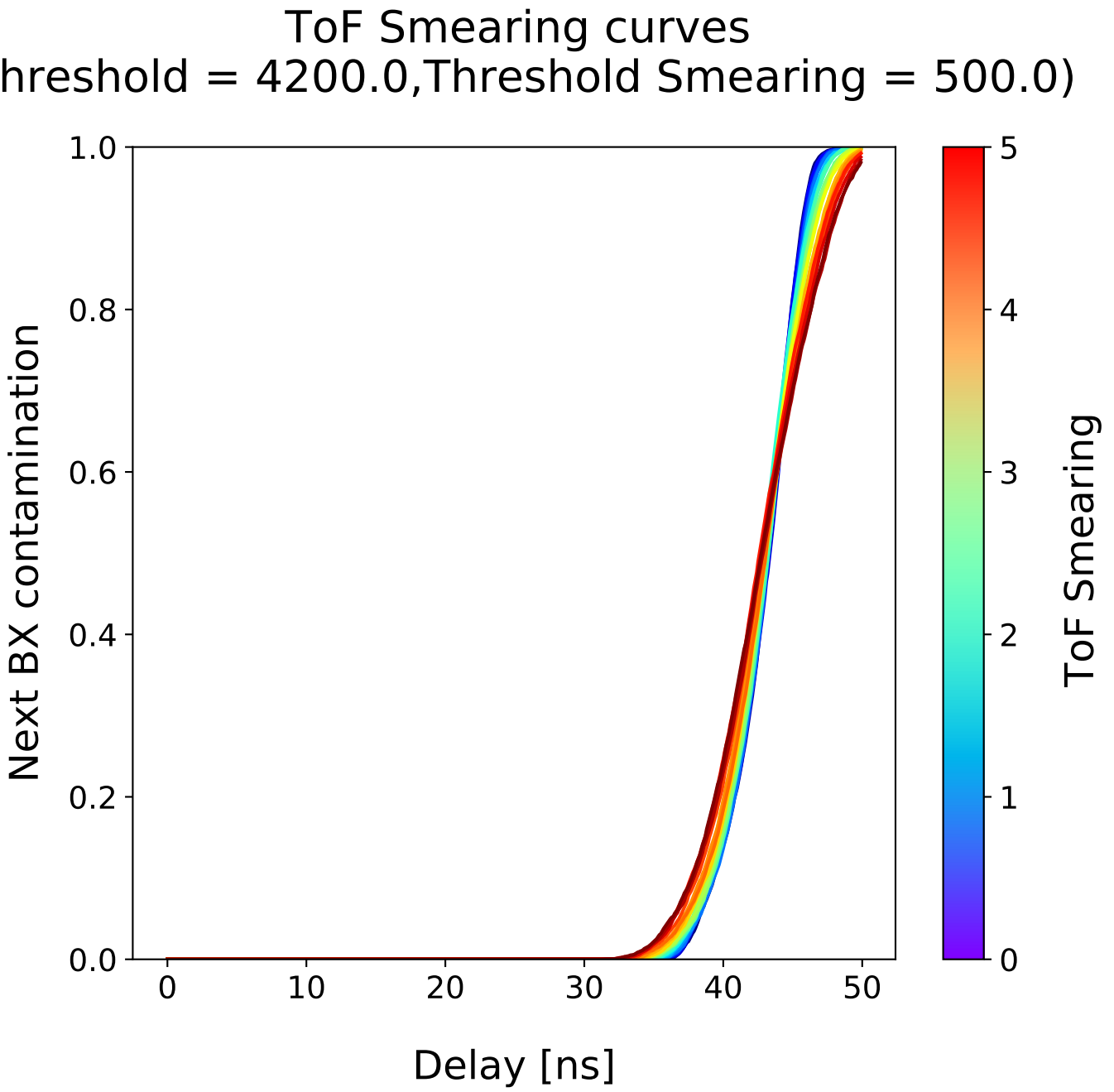

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

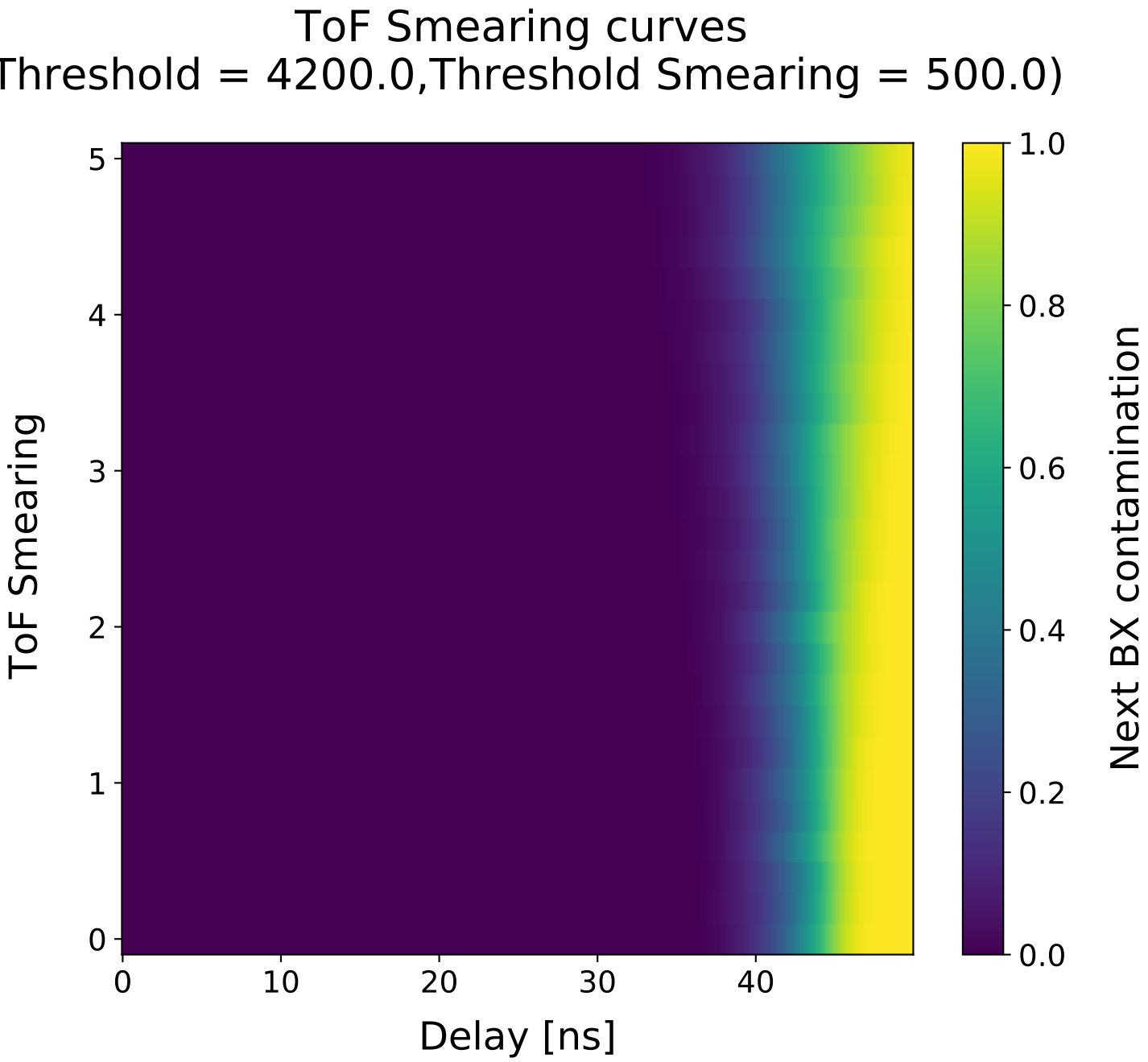

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

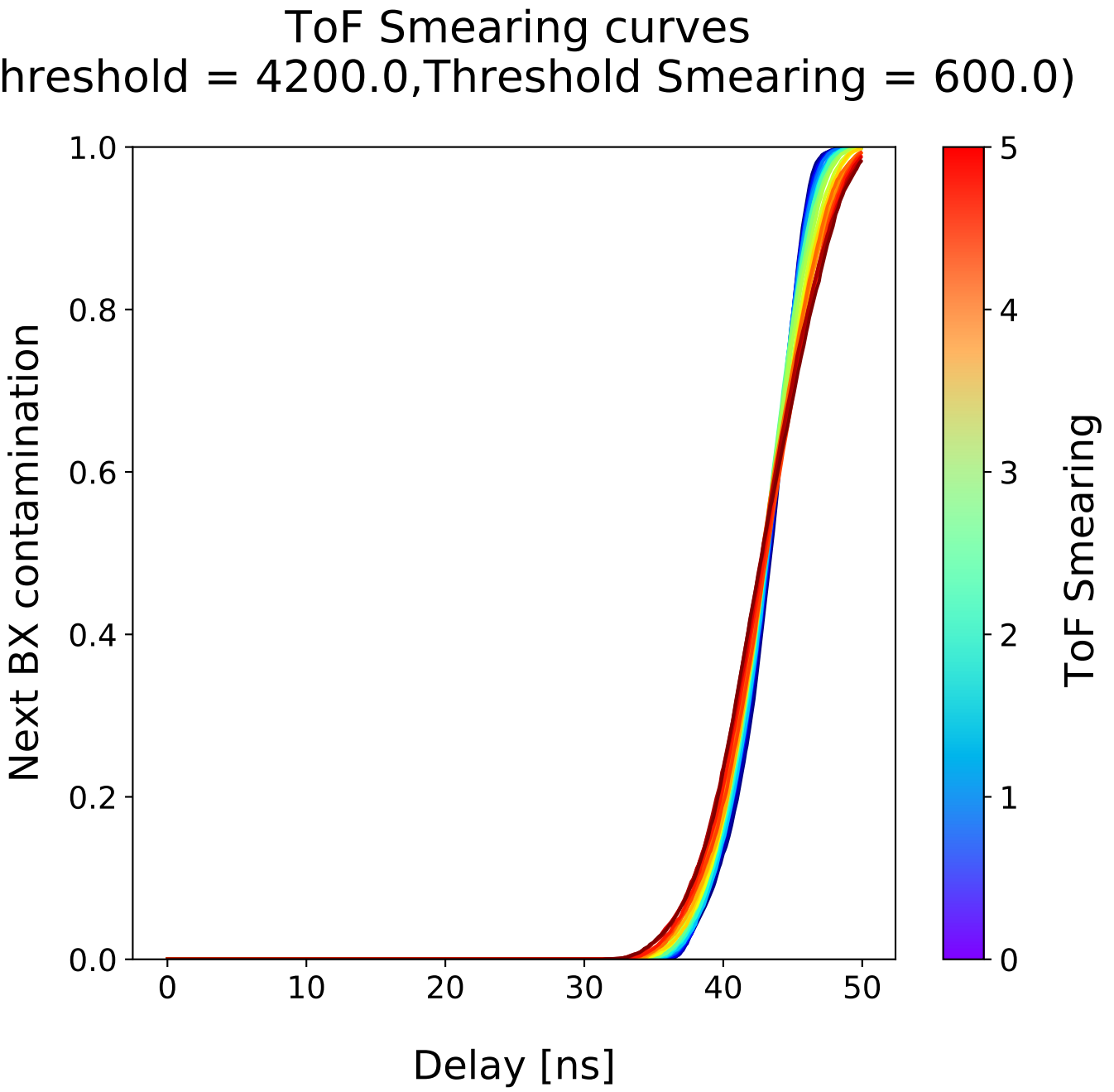

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

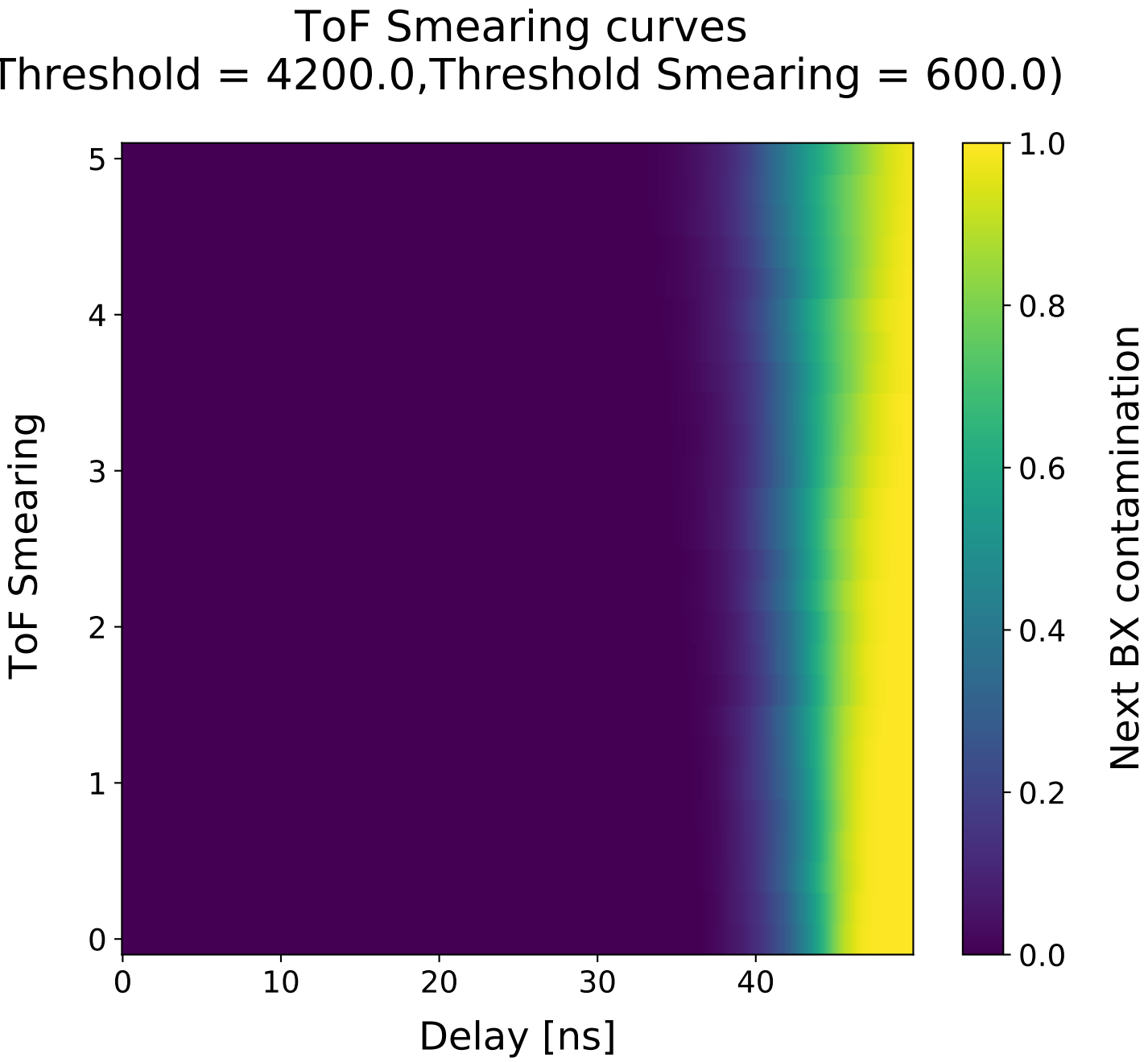

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

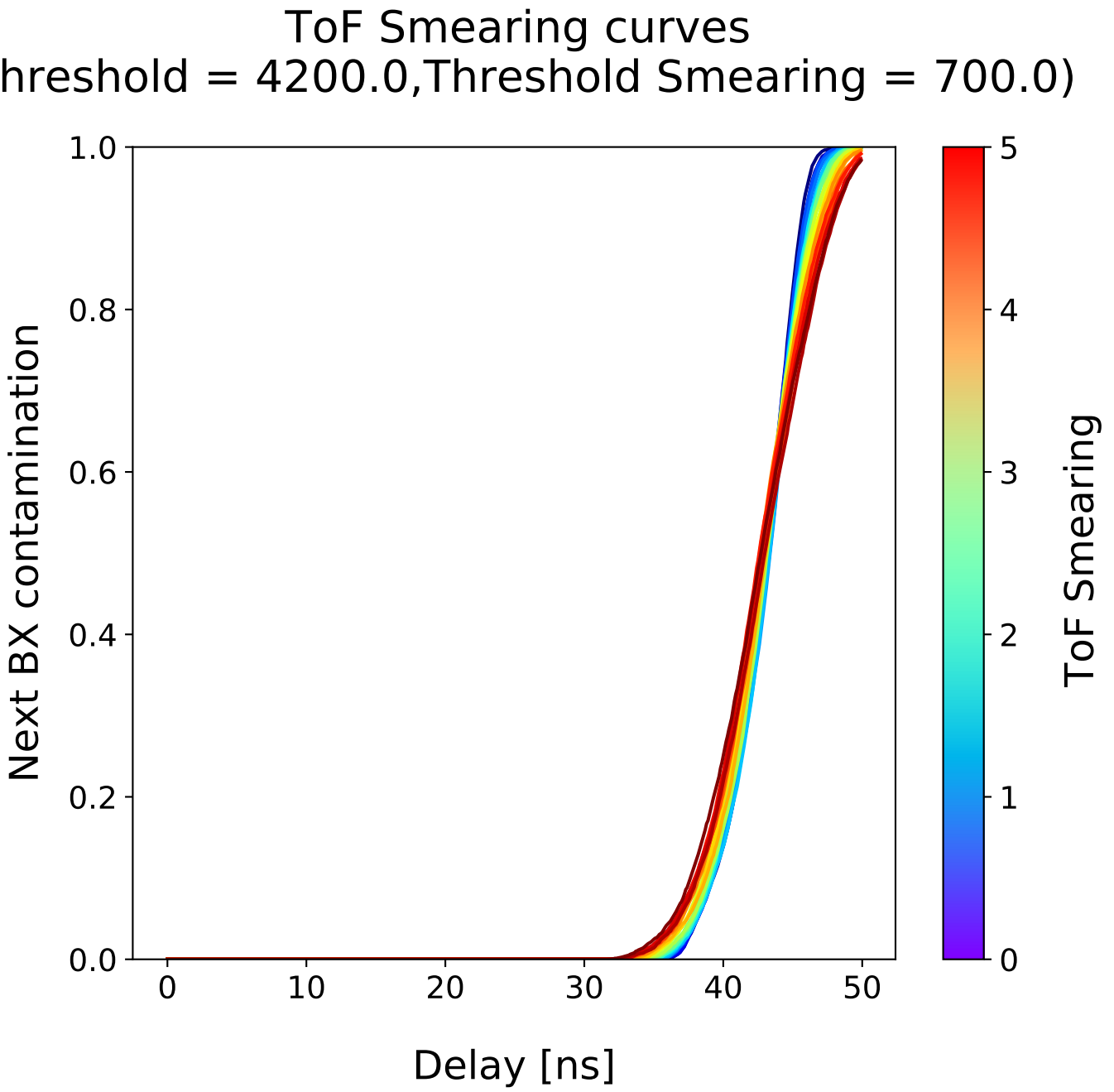

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

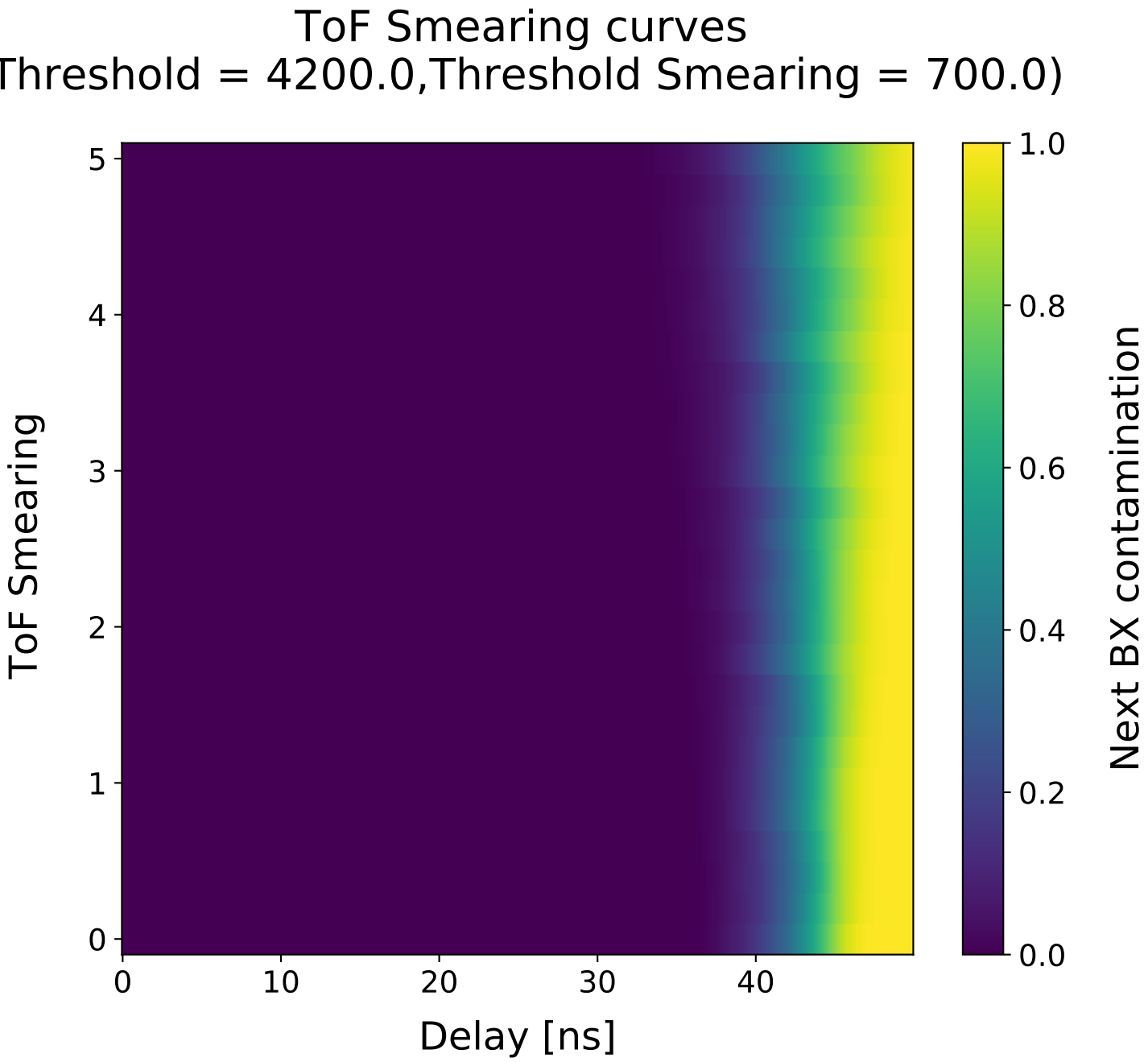

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

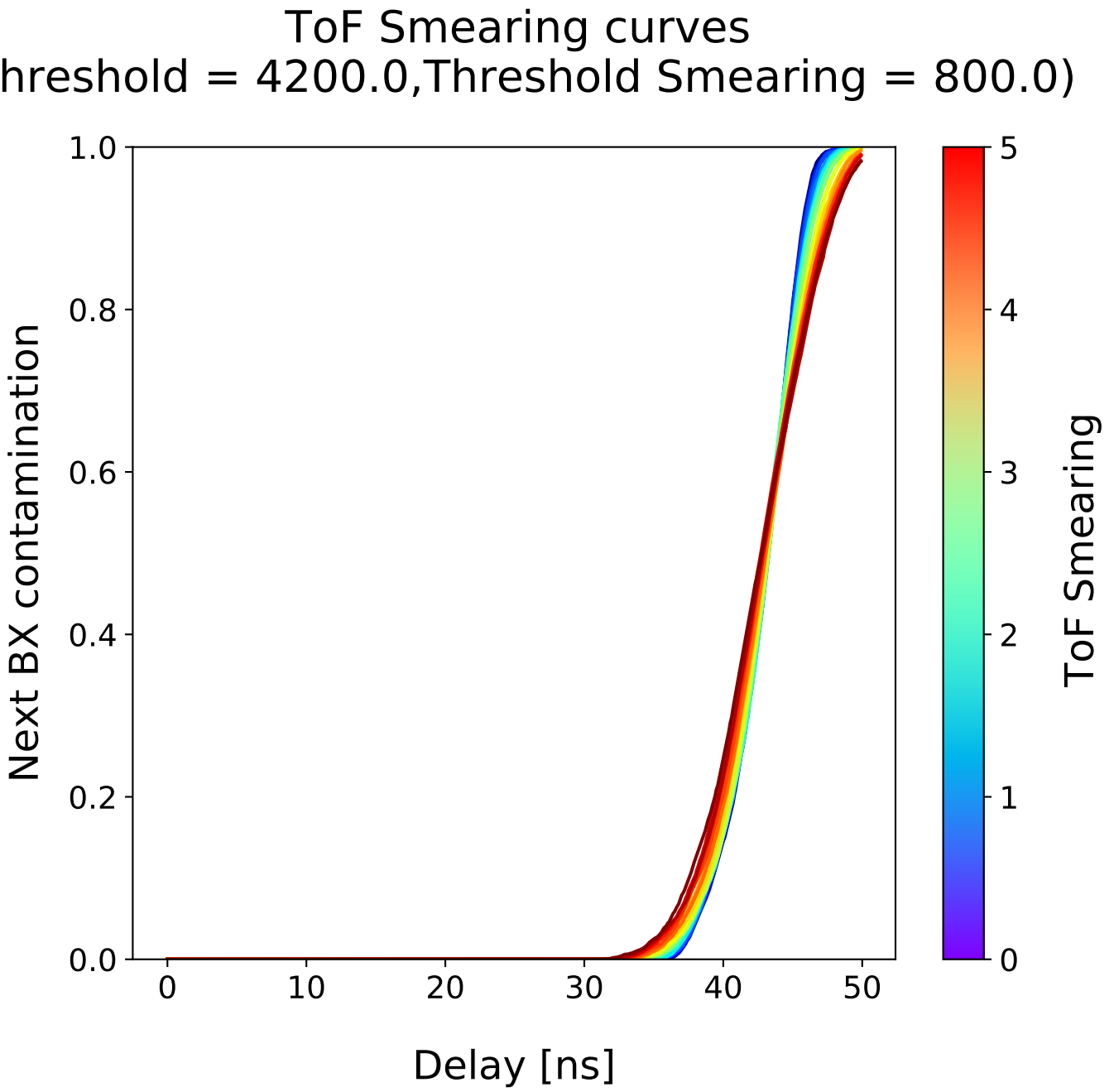

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

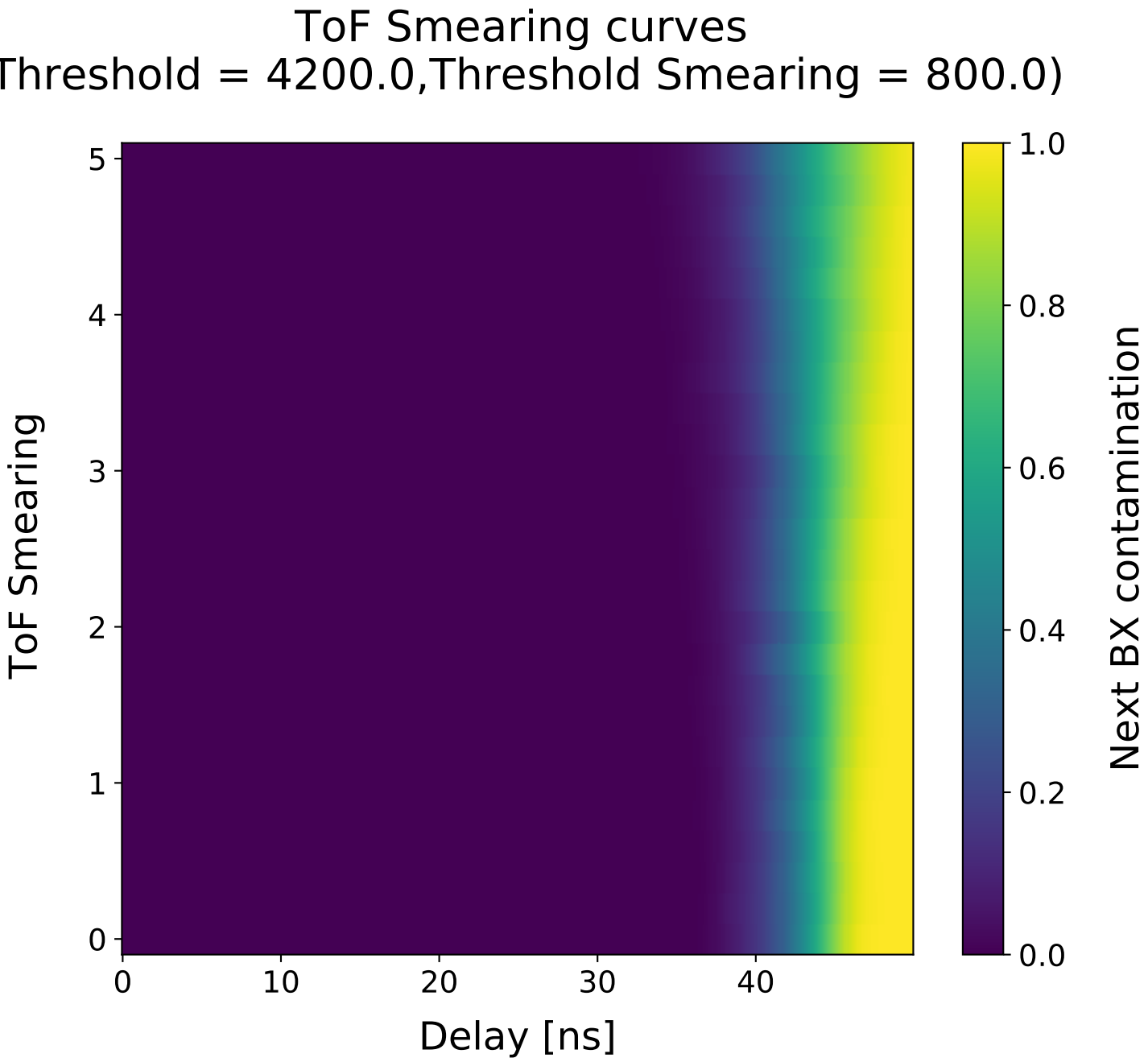

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

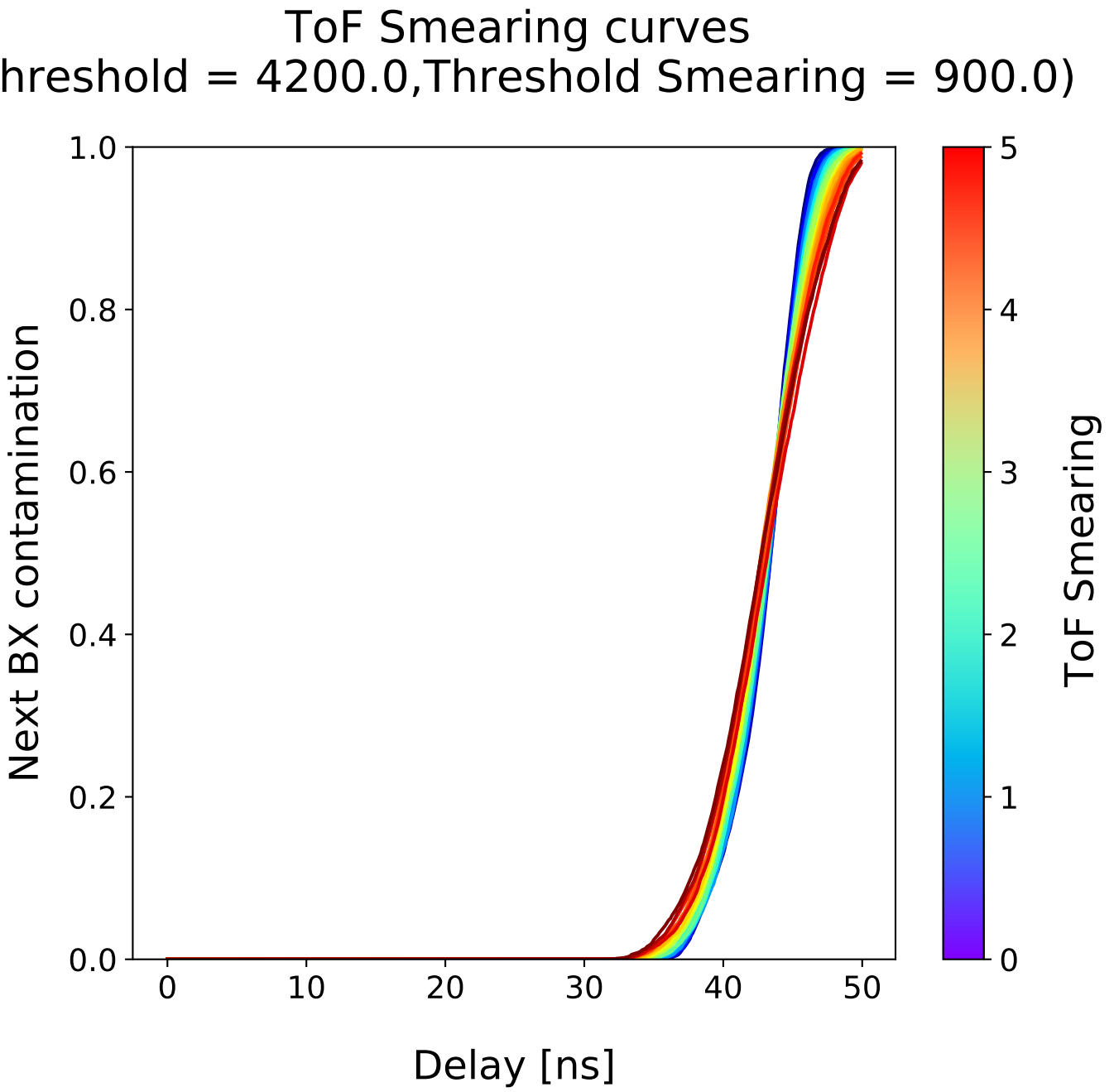

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

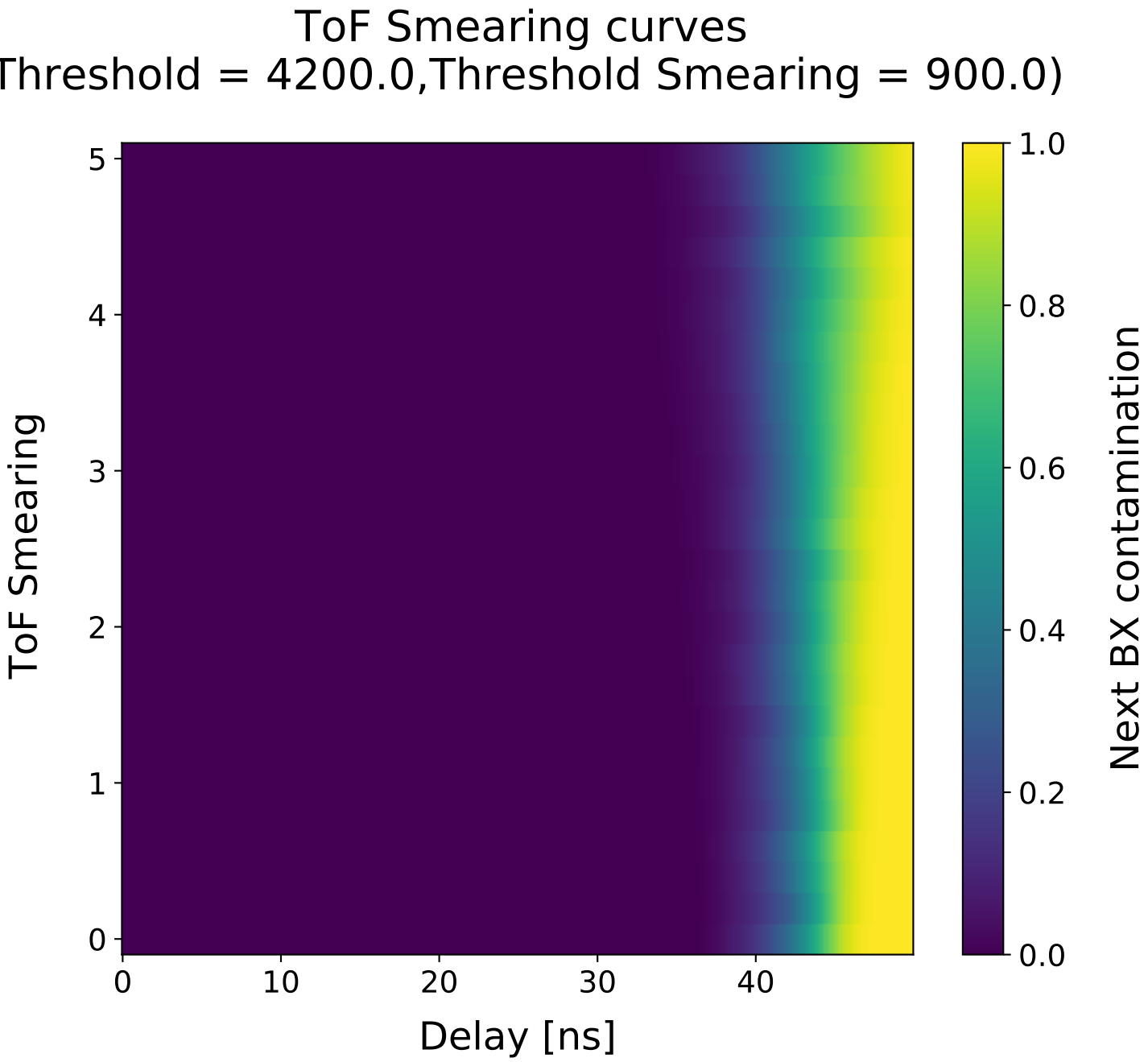

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

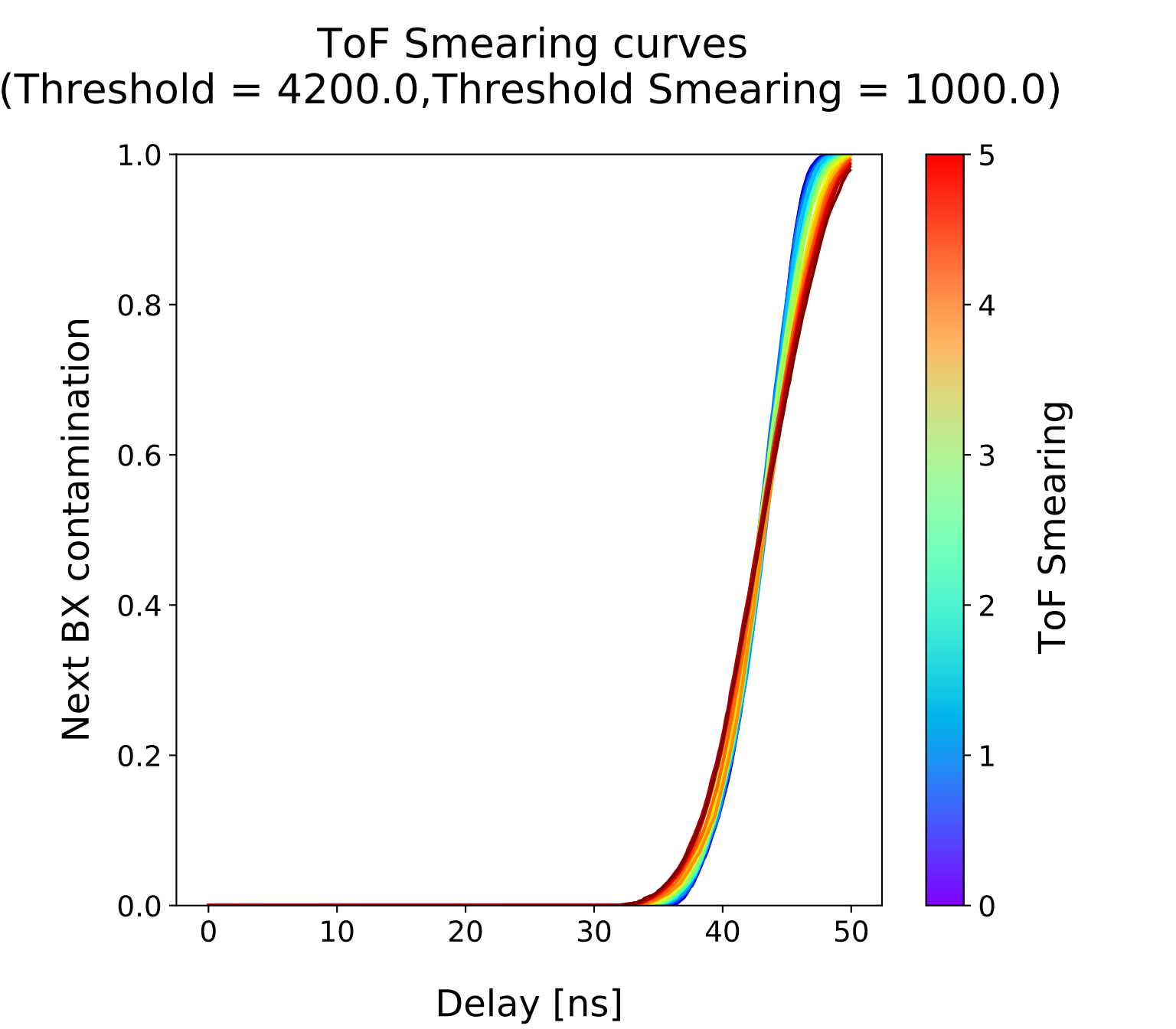

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

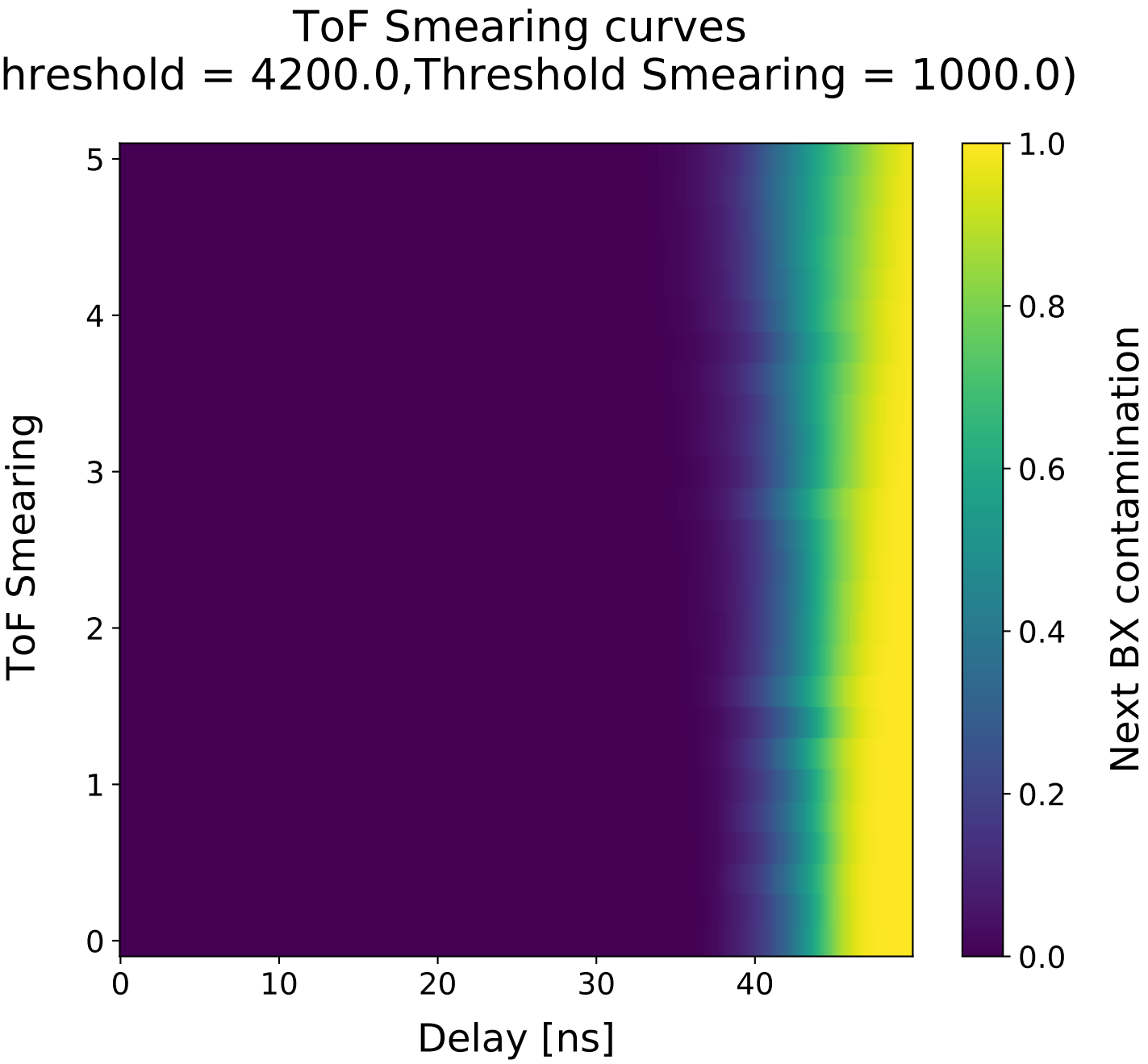

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

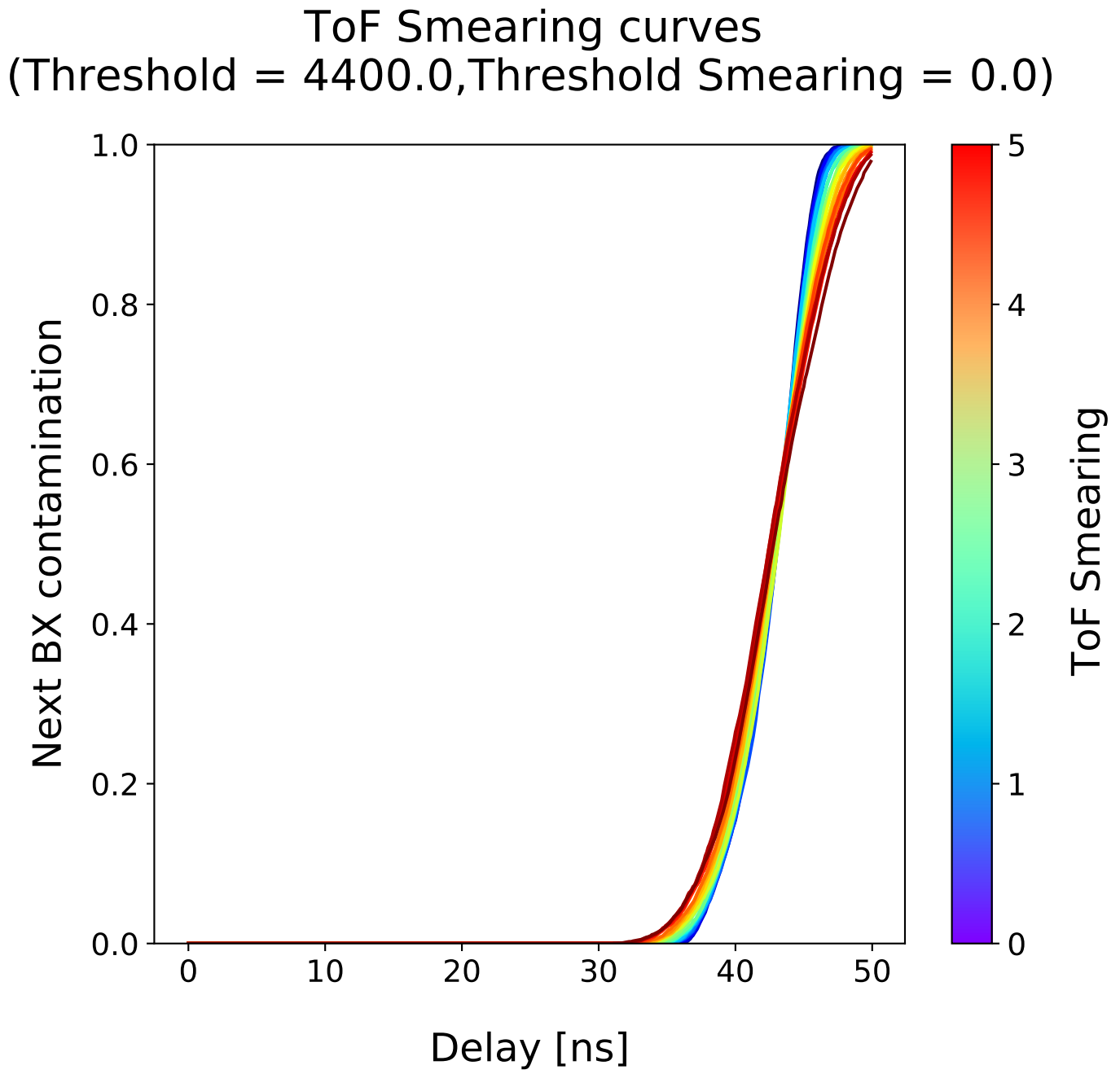

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

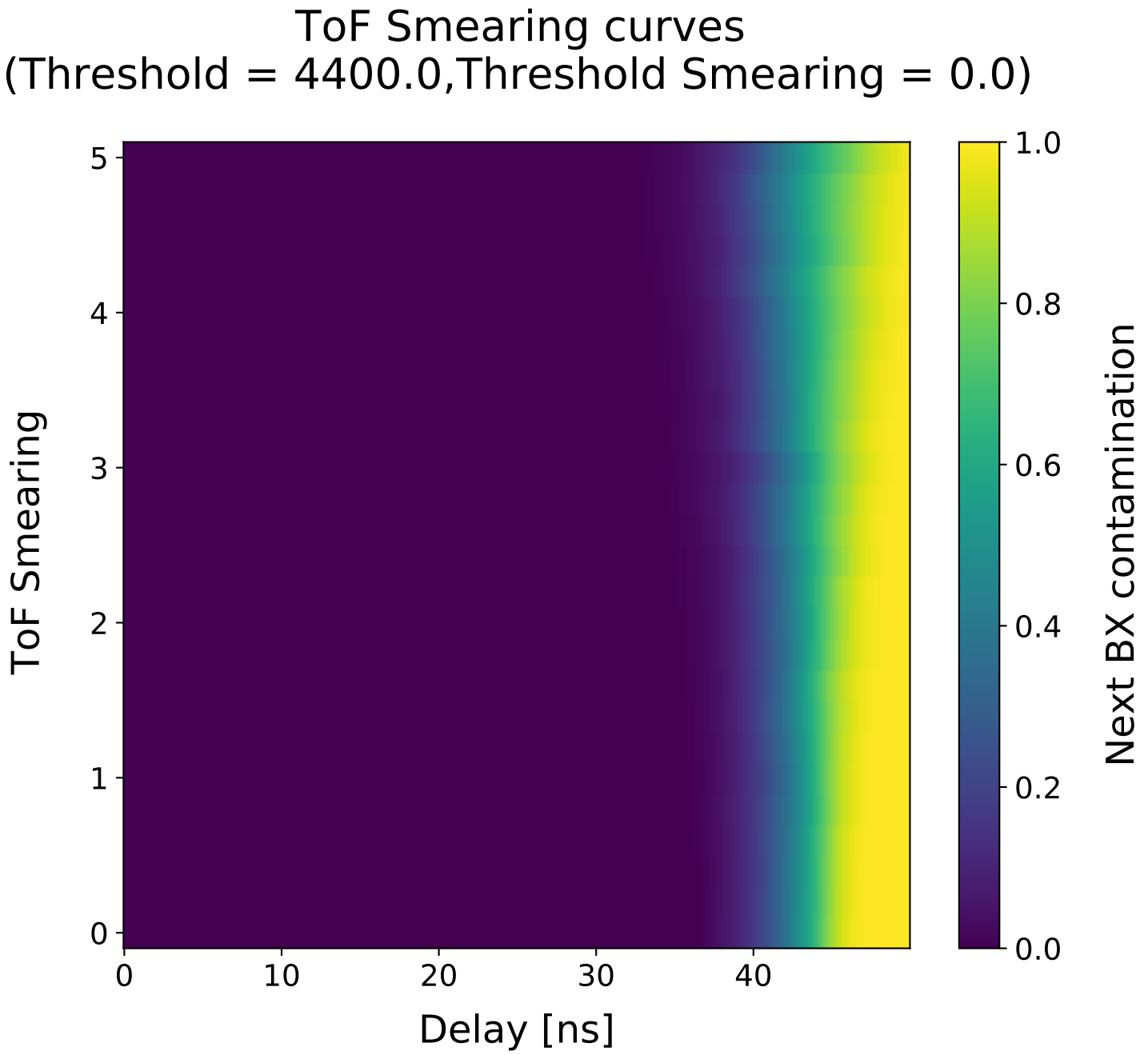

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

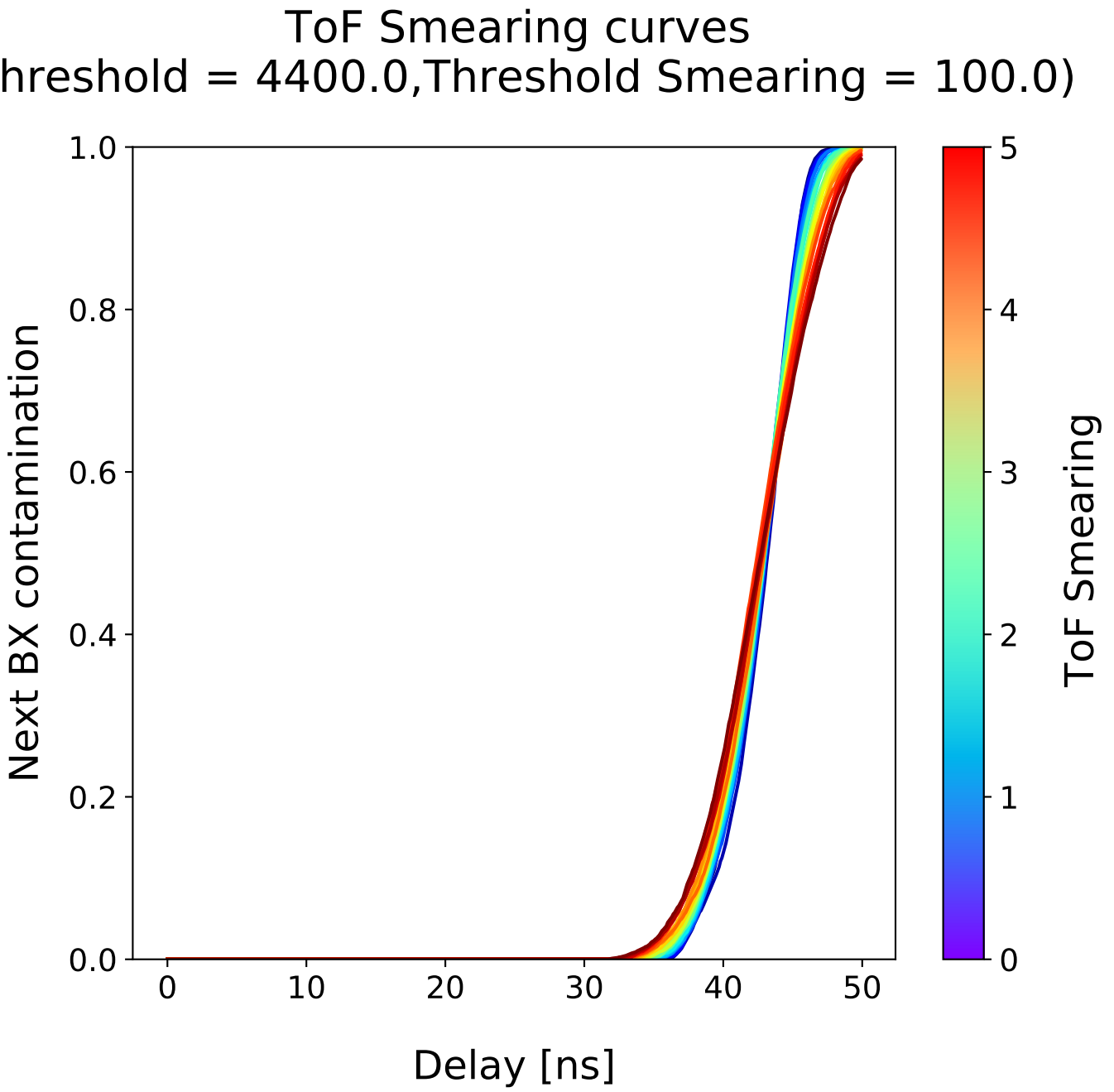

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

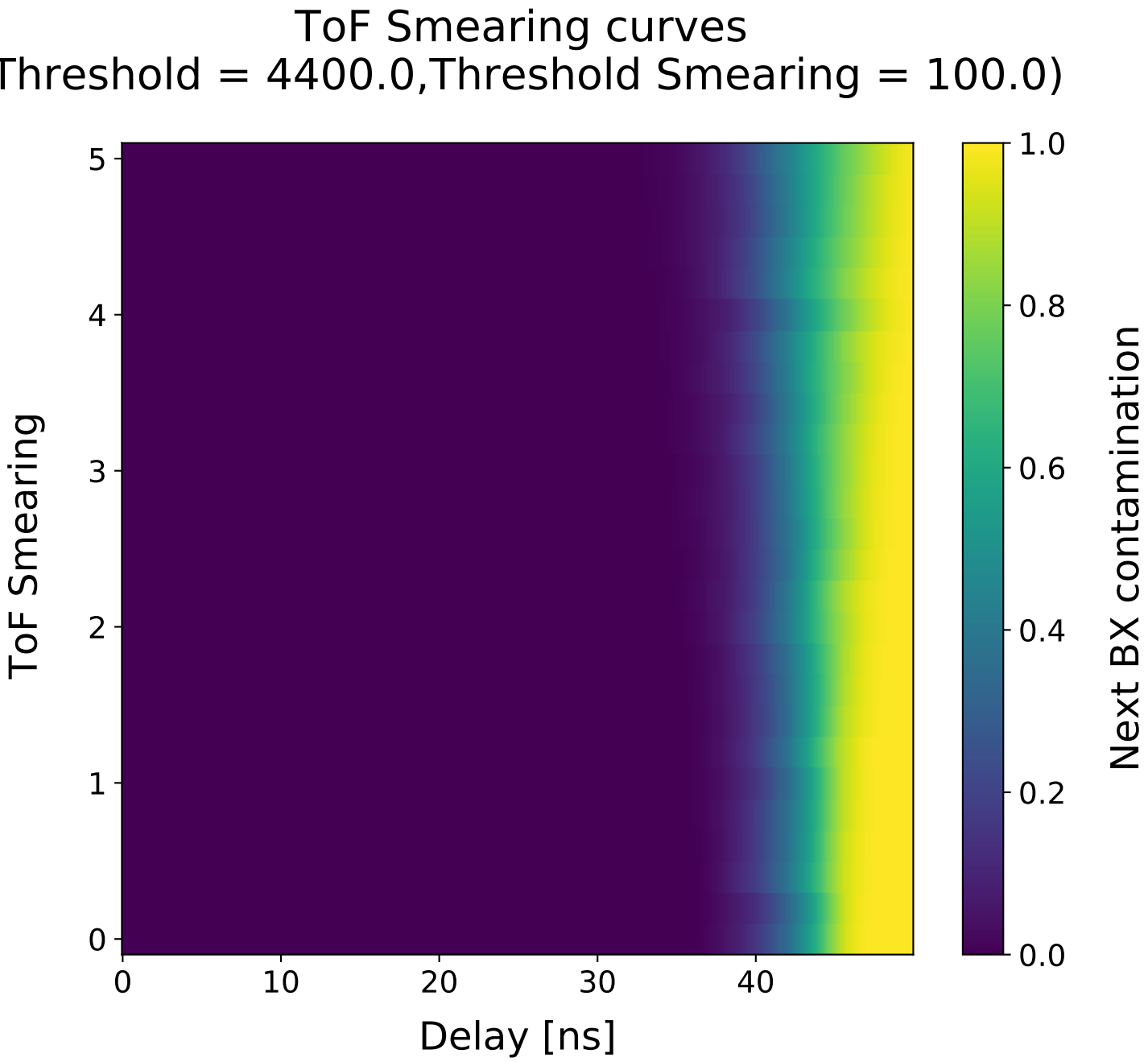

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

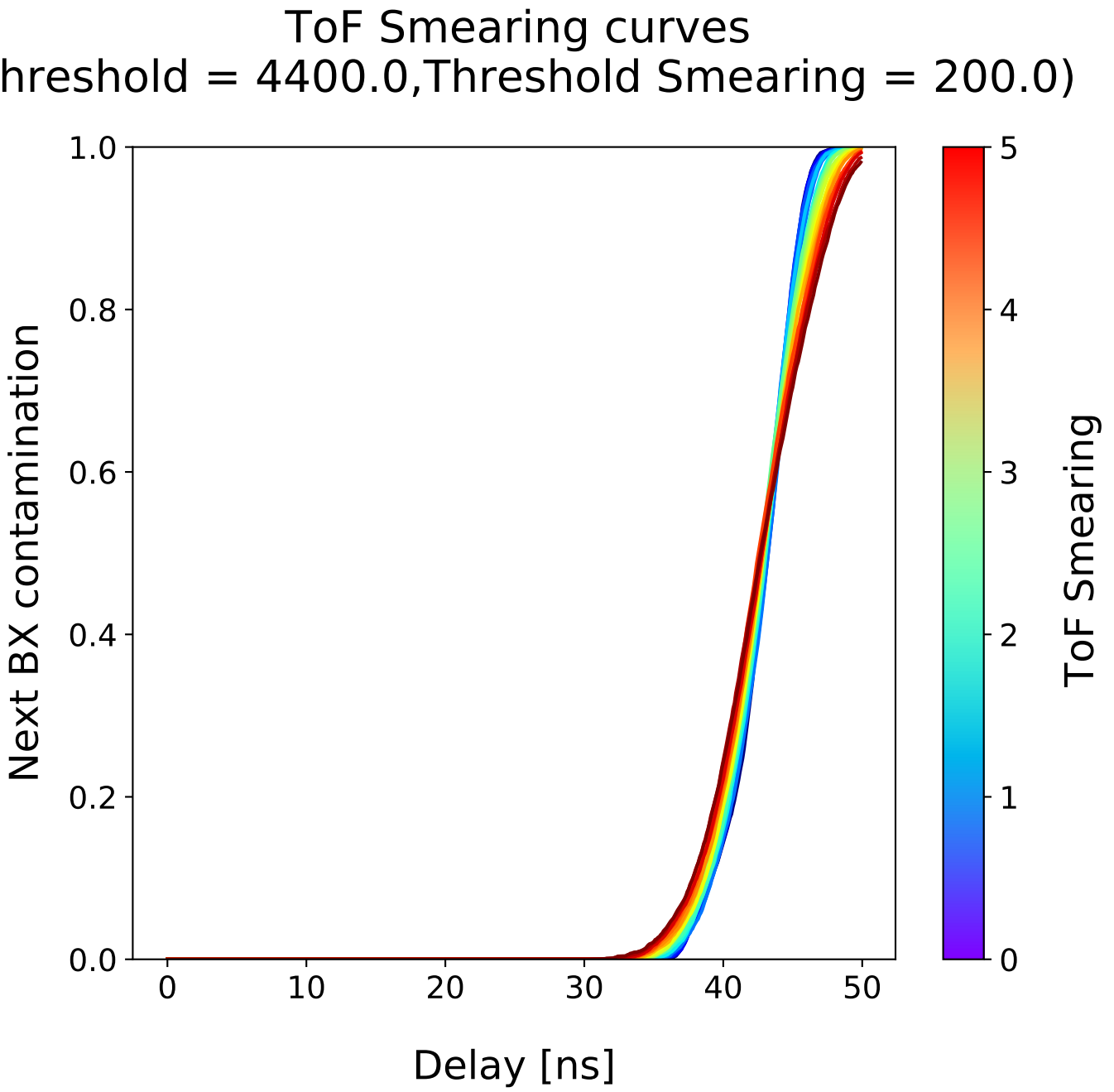

ToF Smearing curves
(Threshold = 4200.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

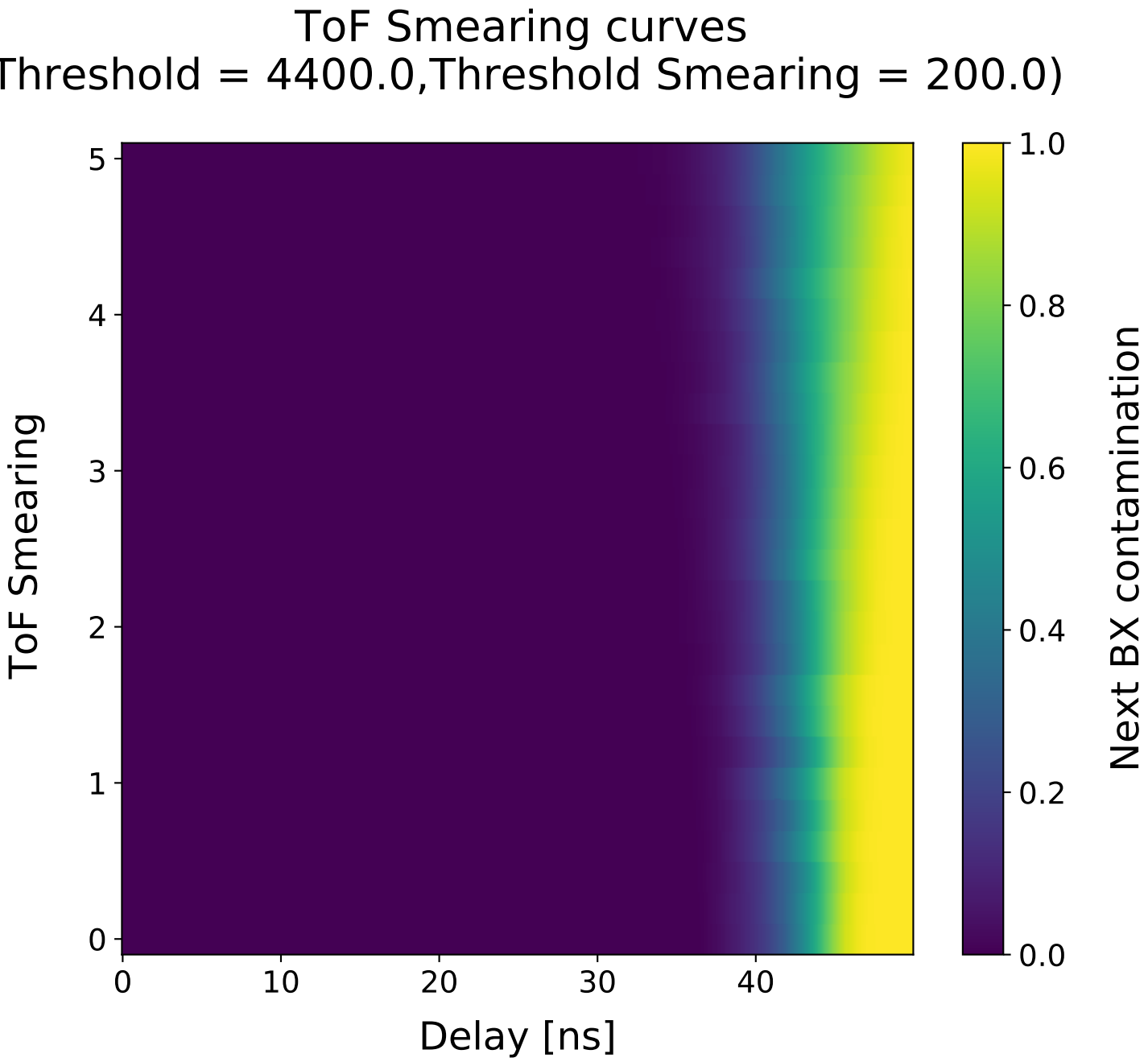

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

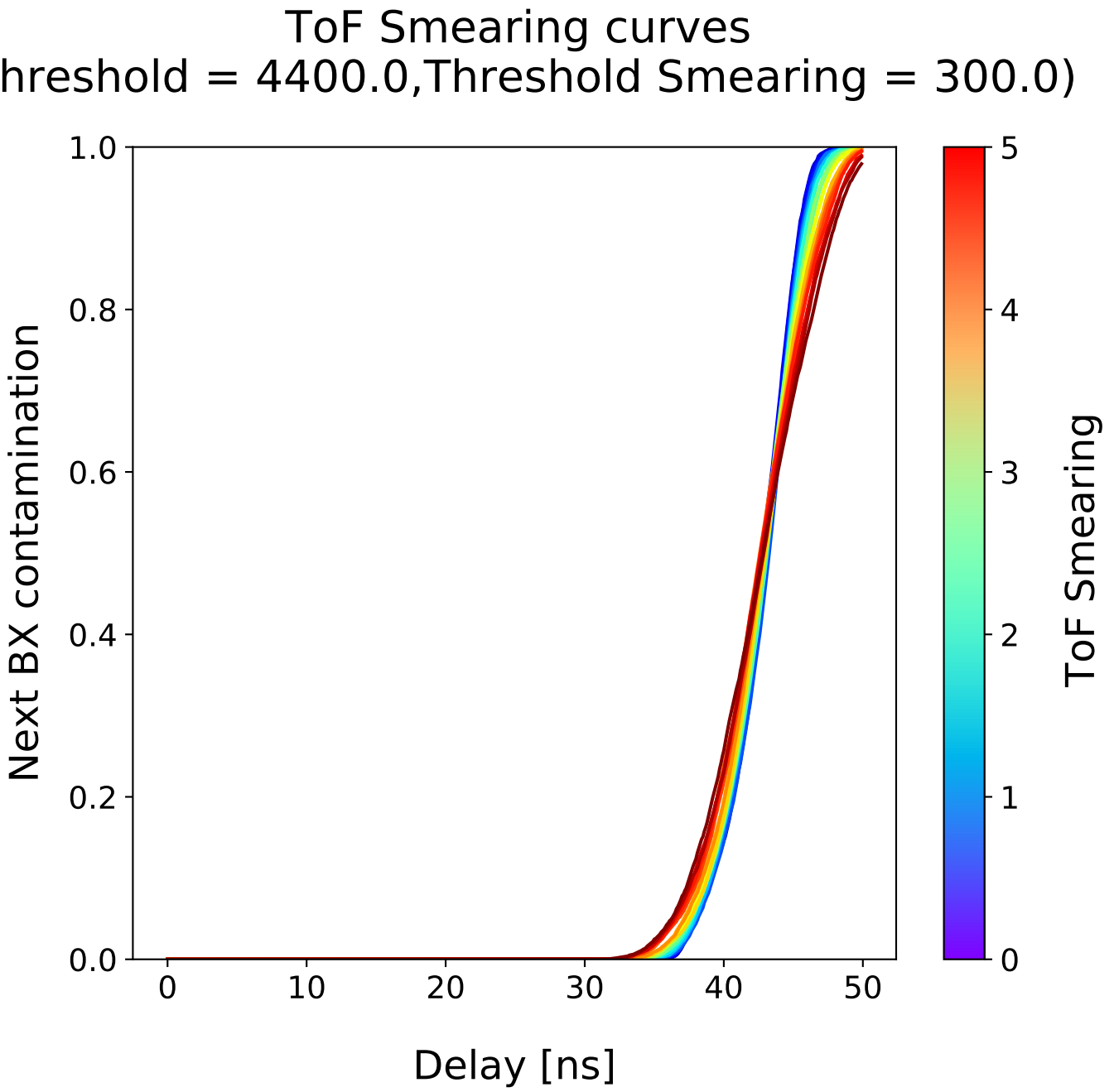

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

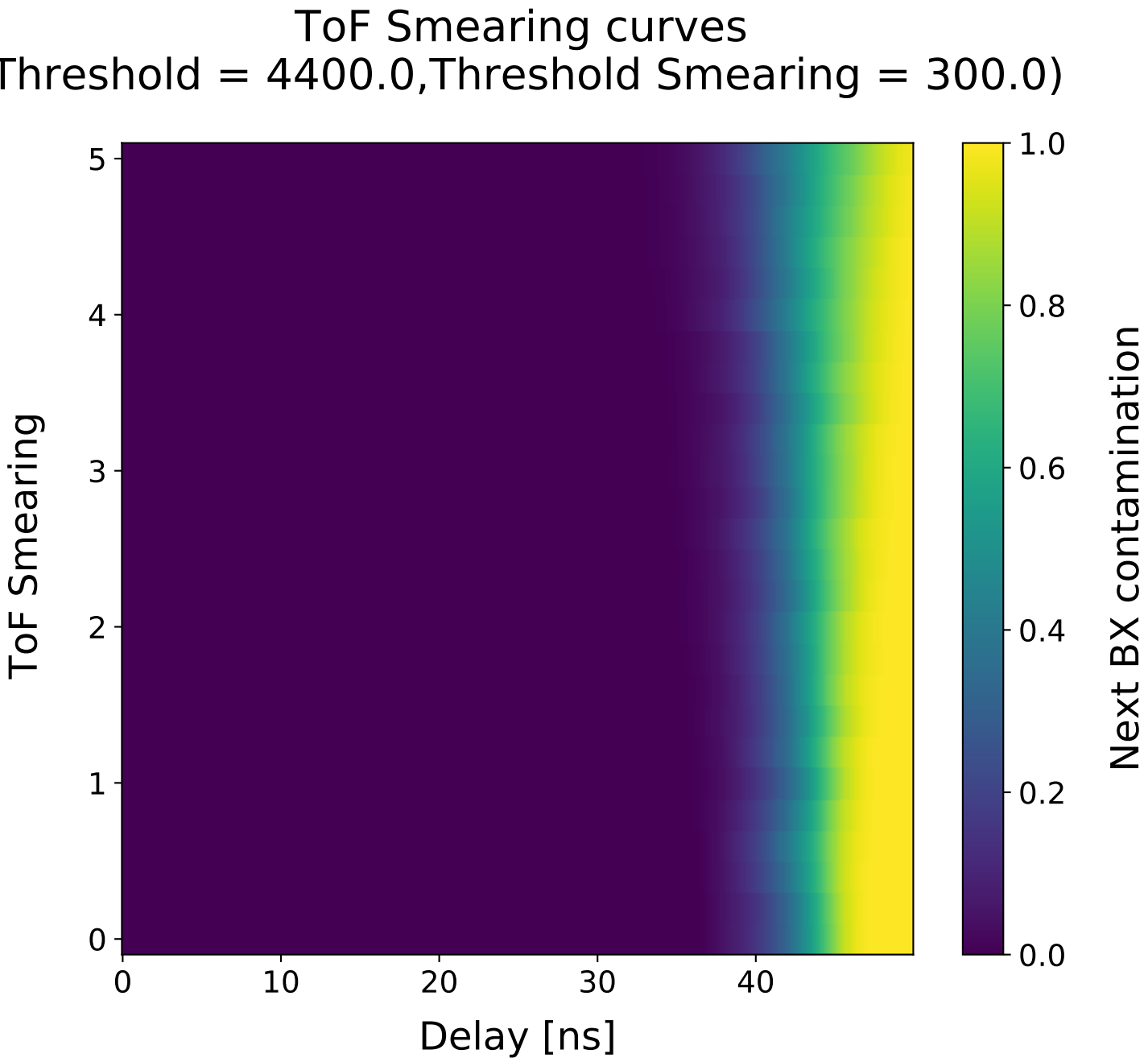

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

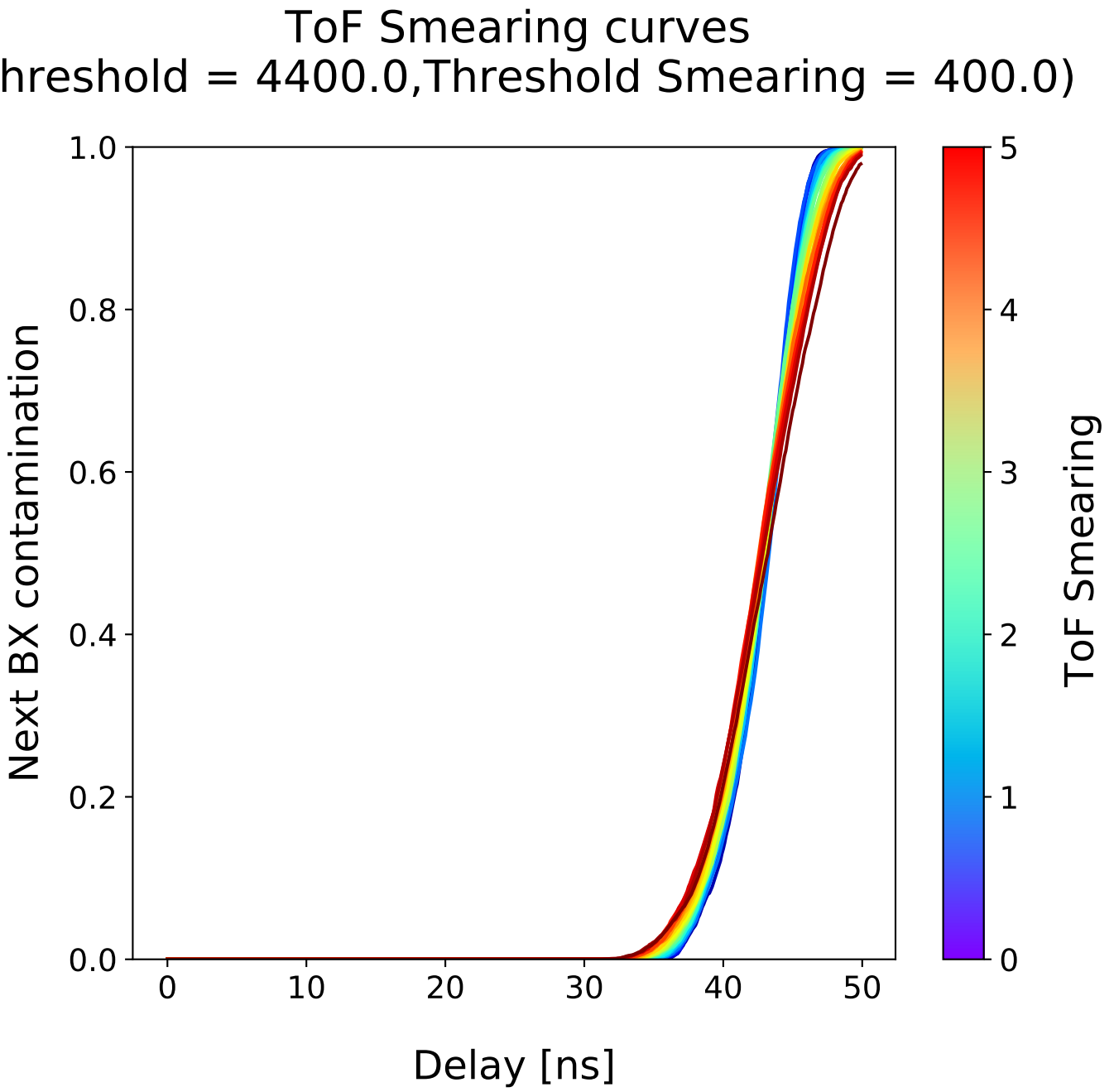

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

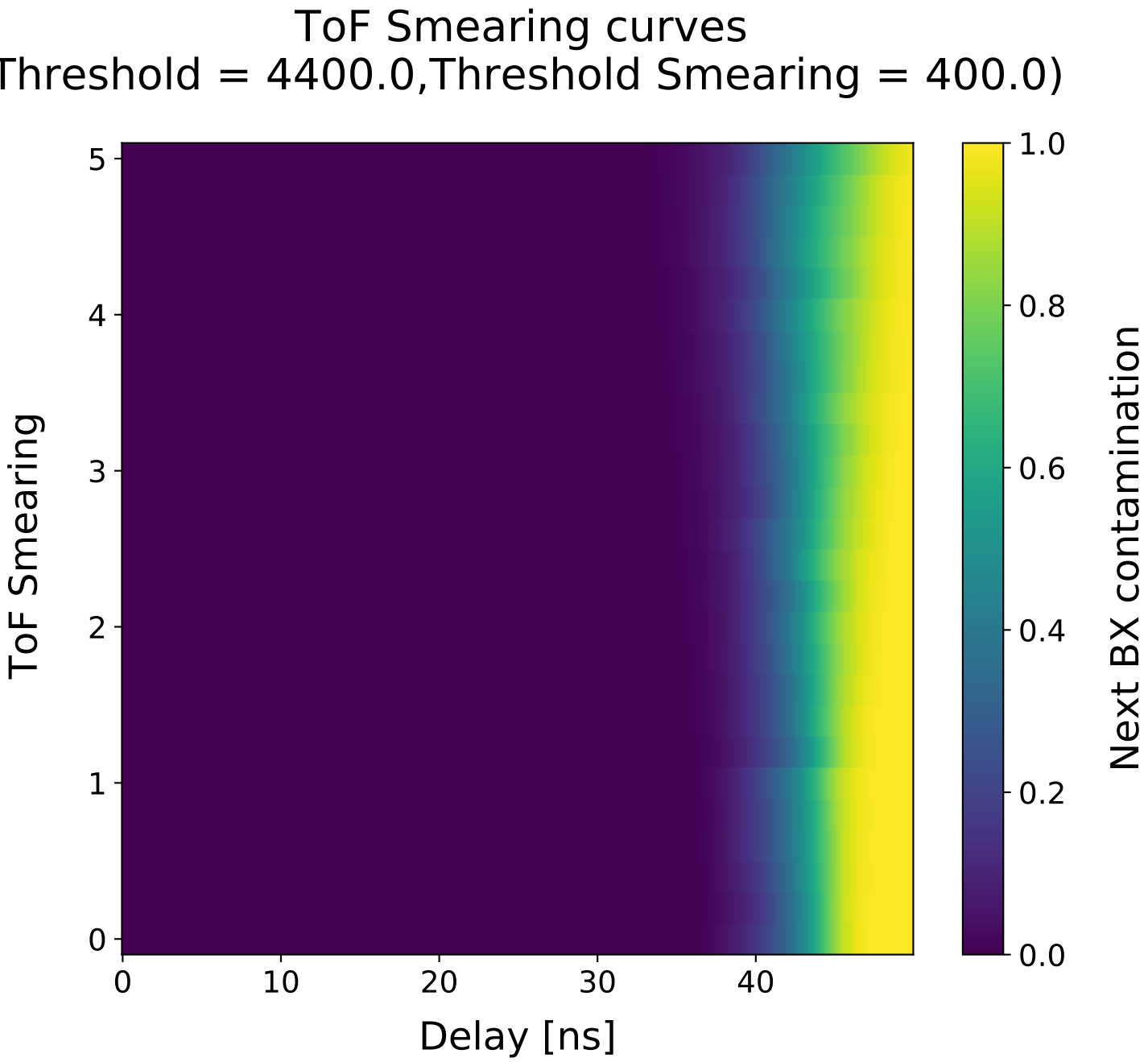

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

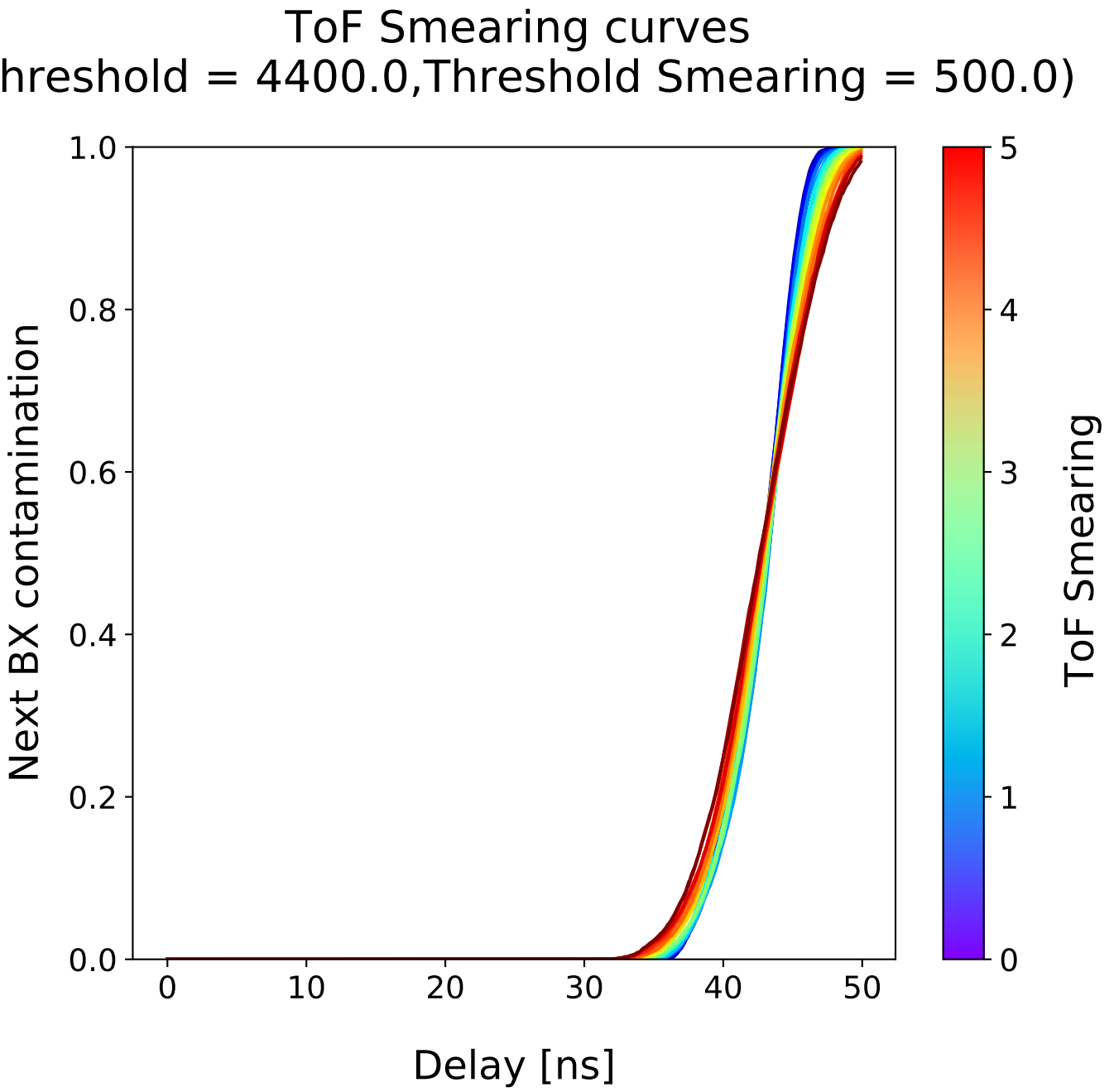

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

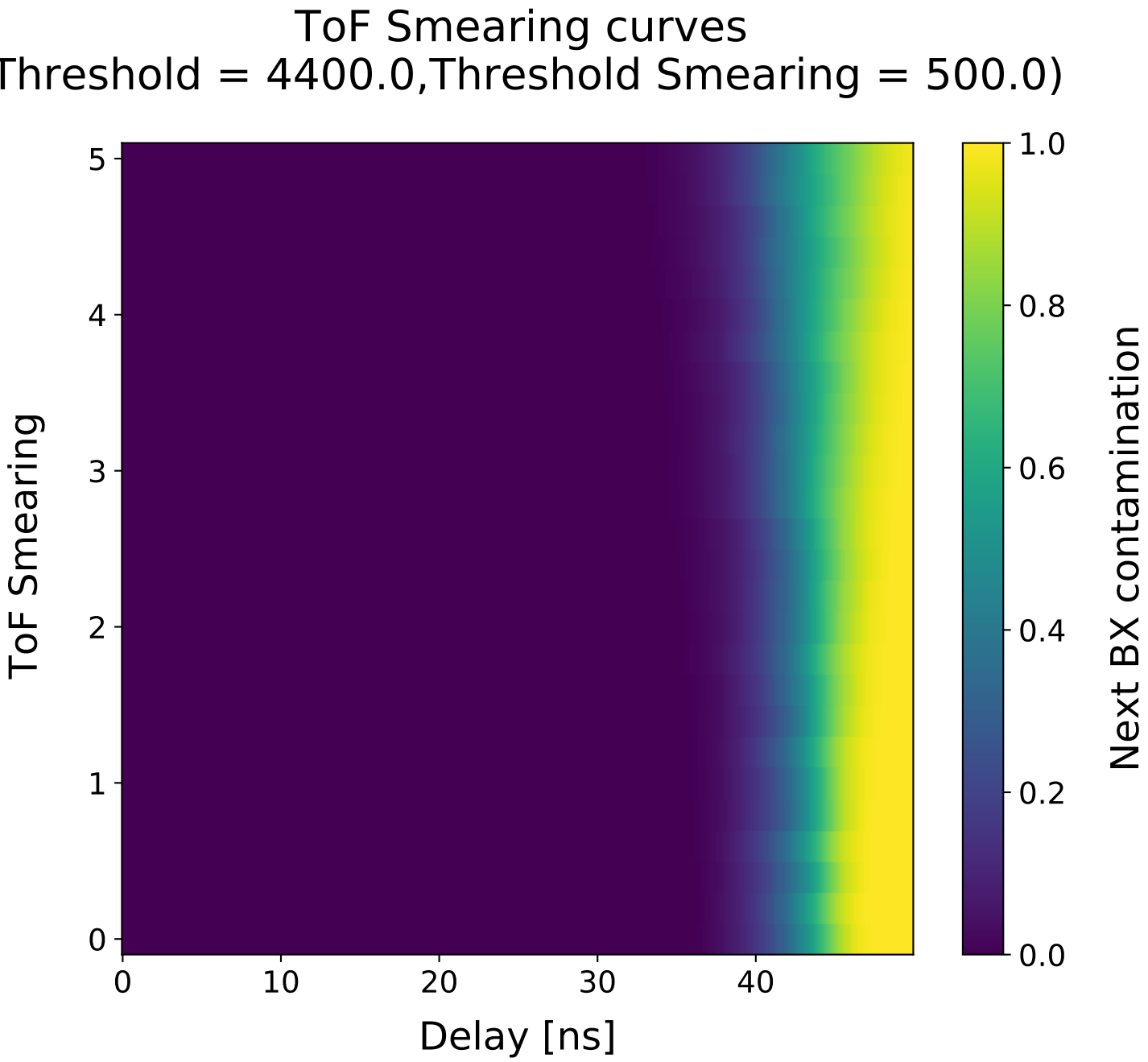

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

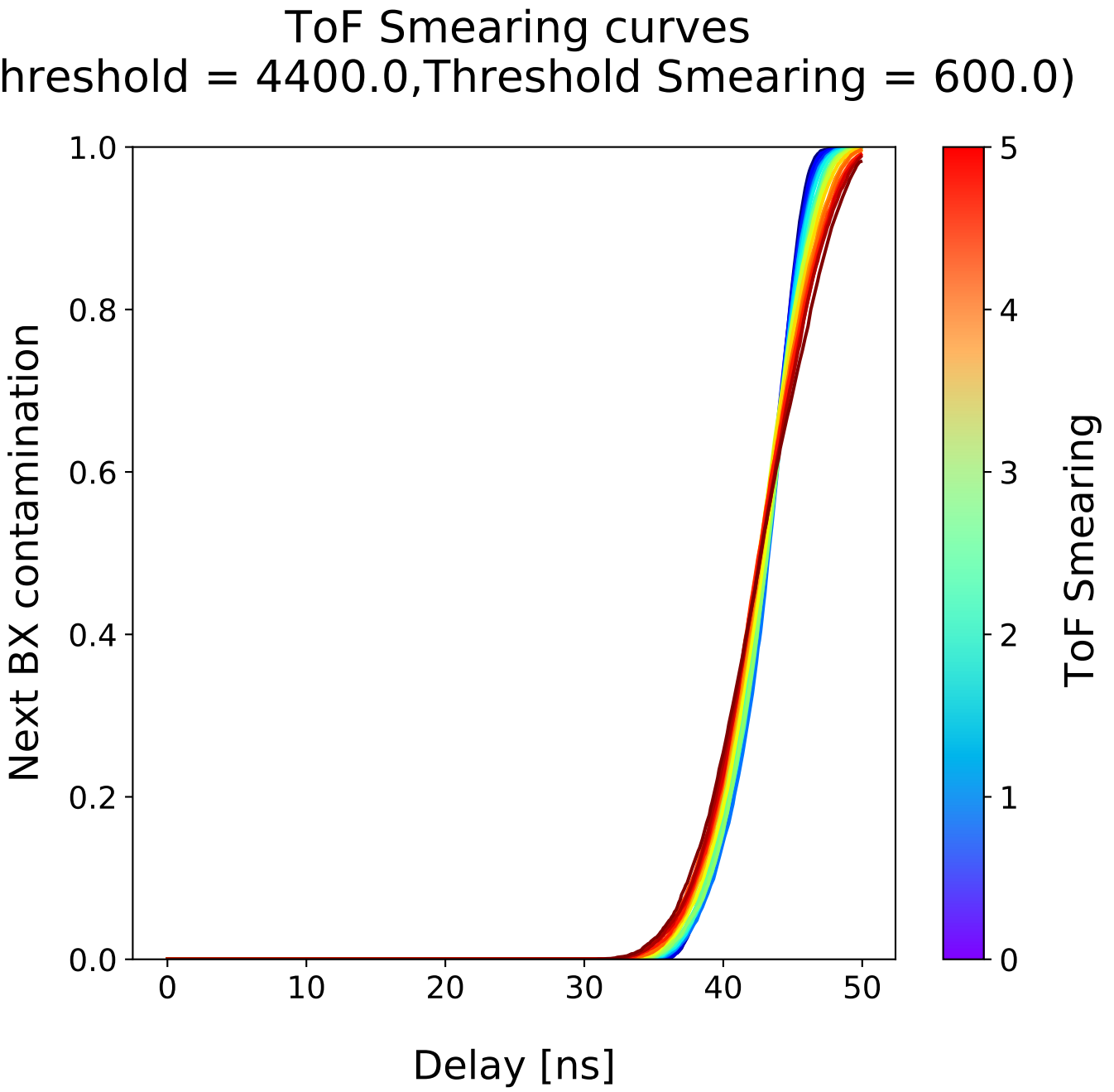

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

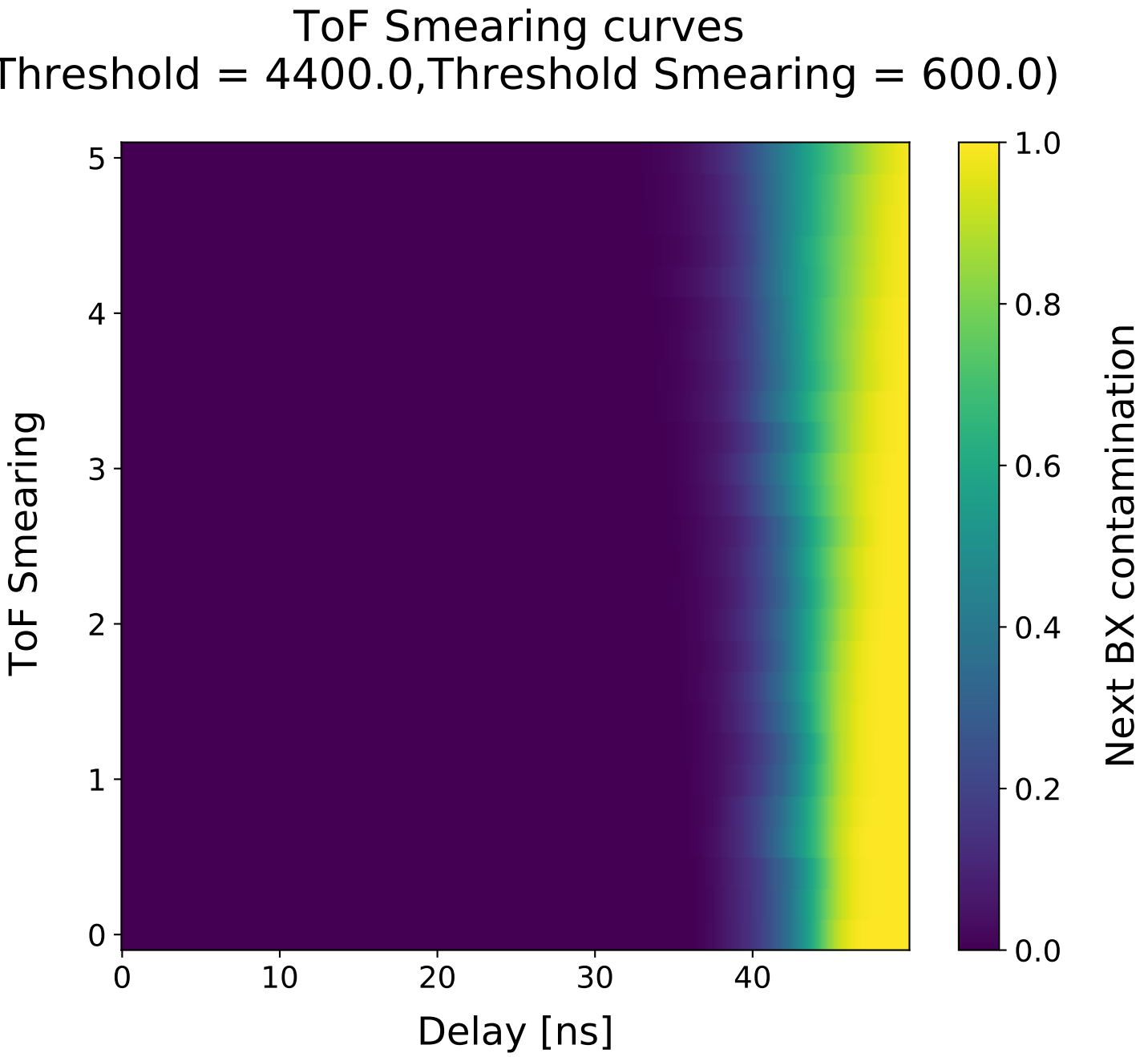

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

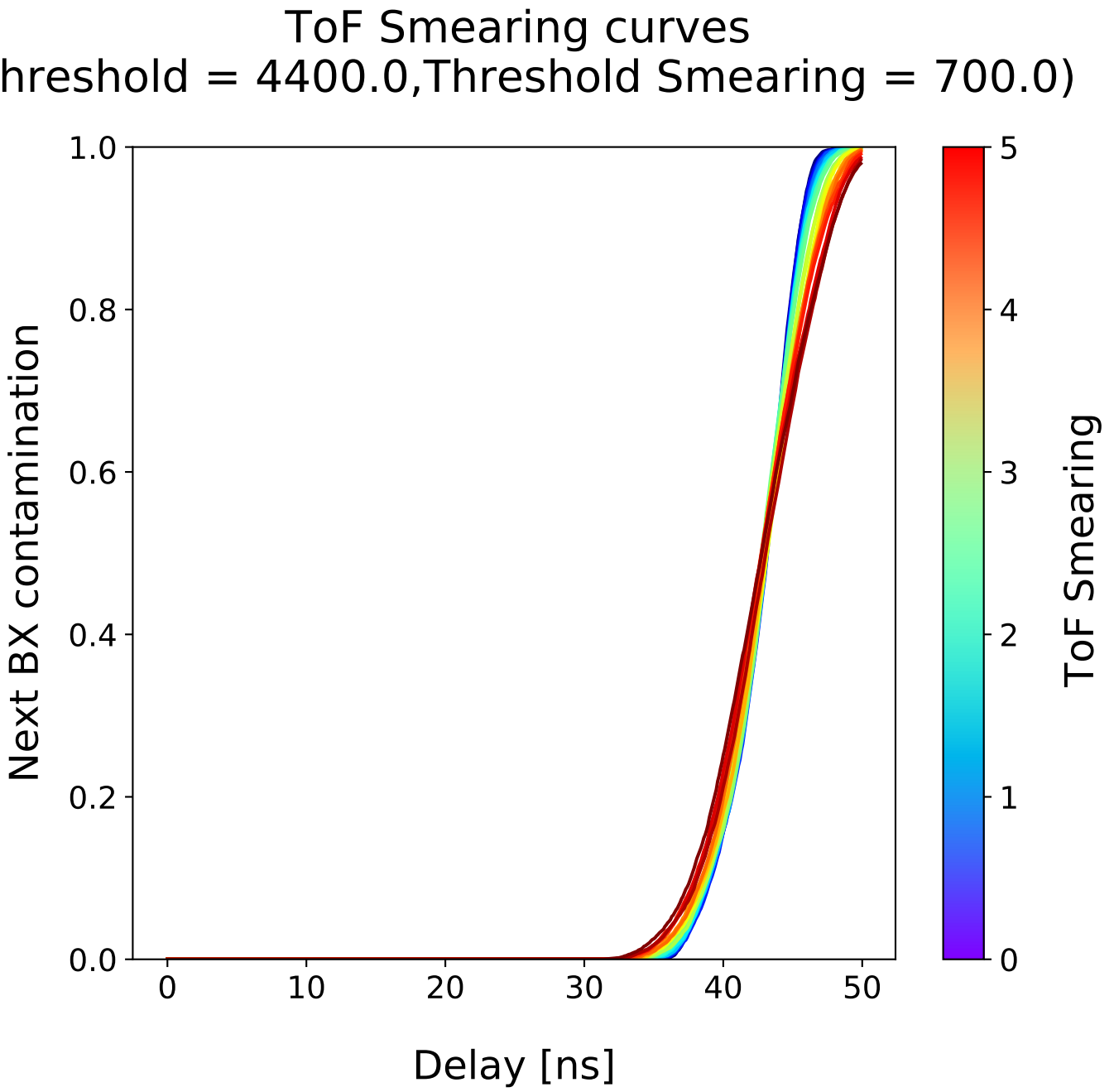

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

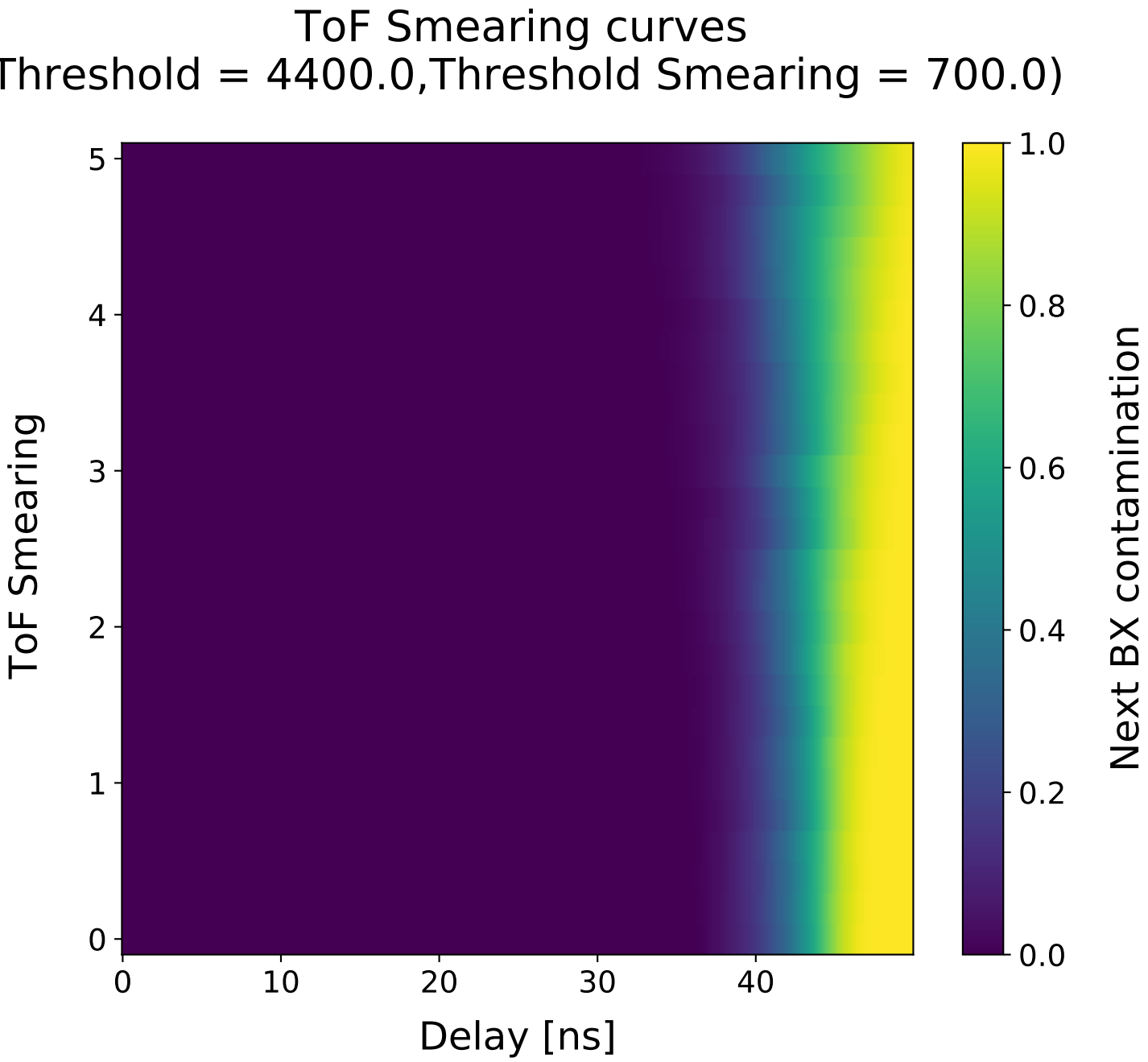

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

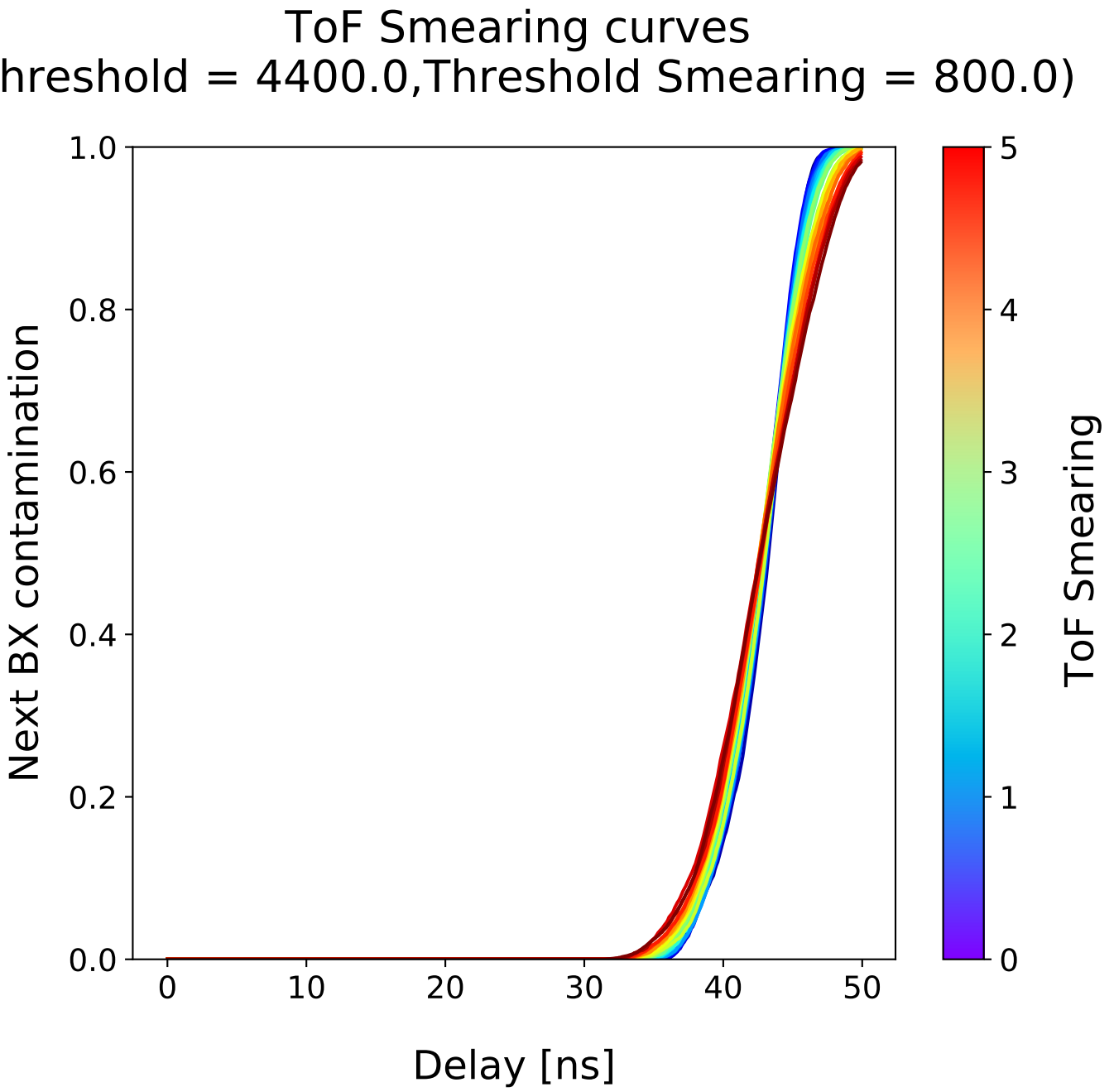

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

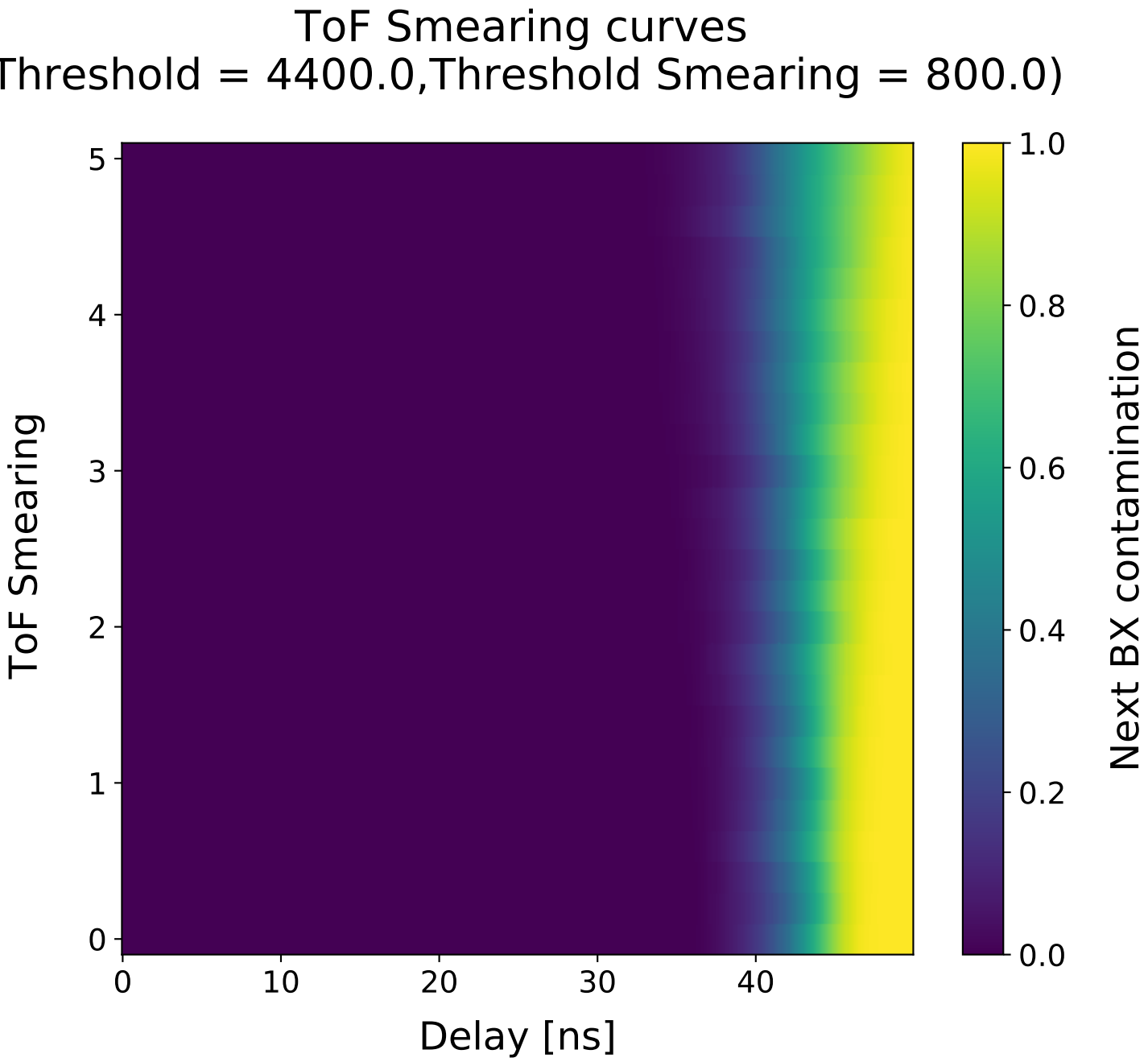

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

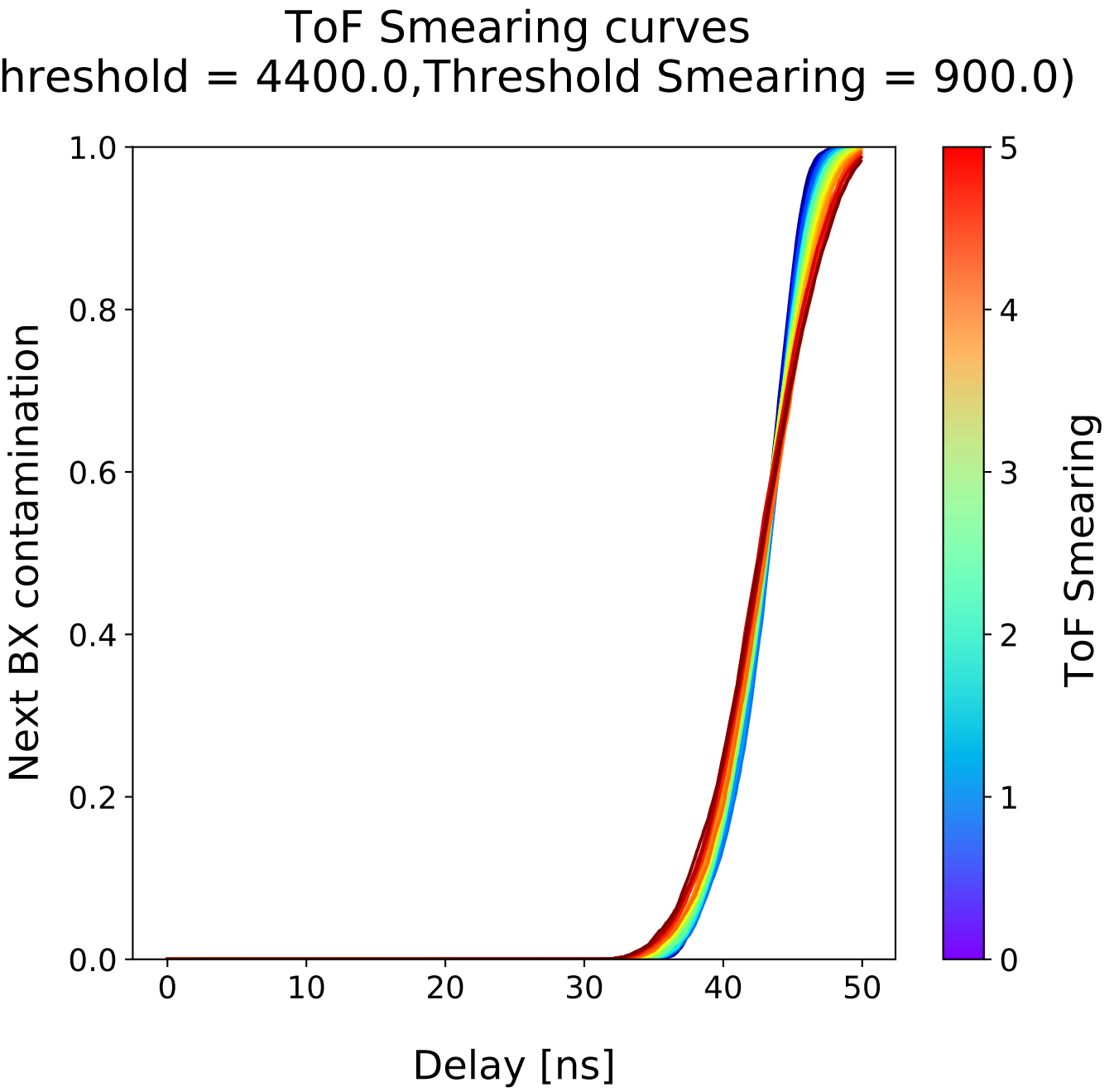

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

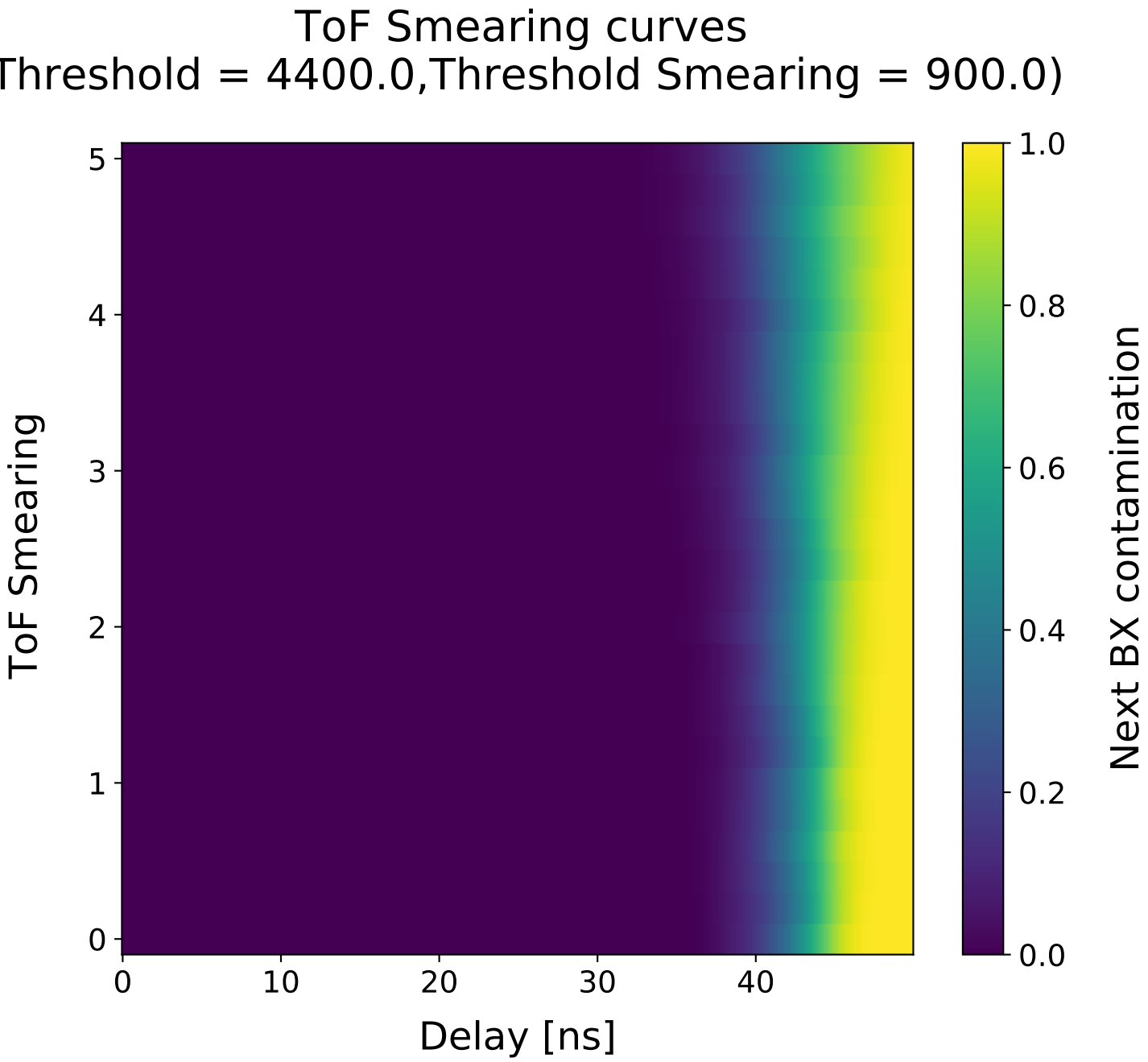

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

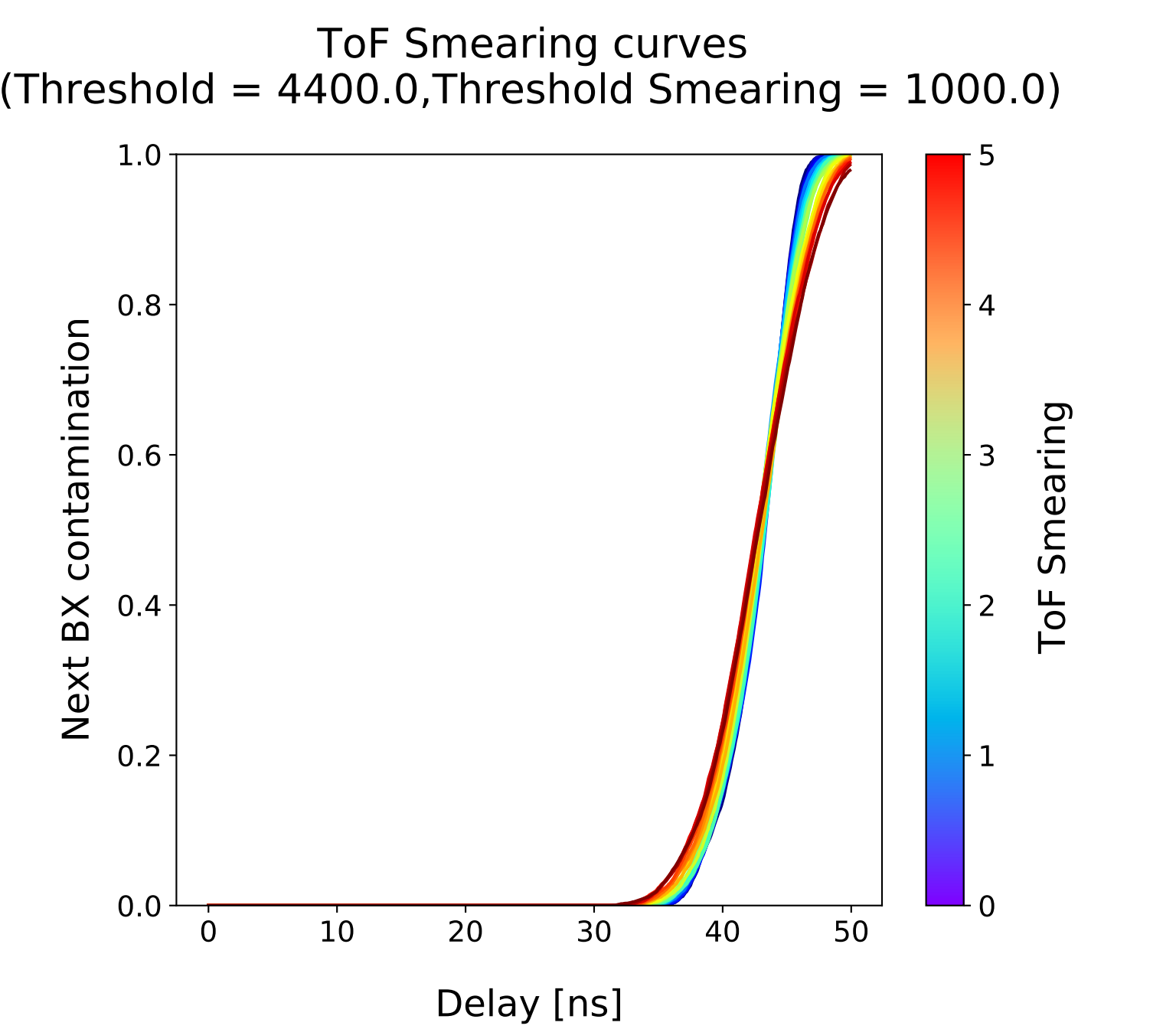

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

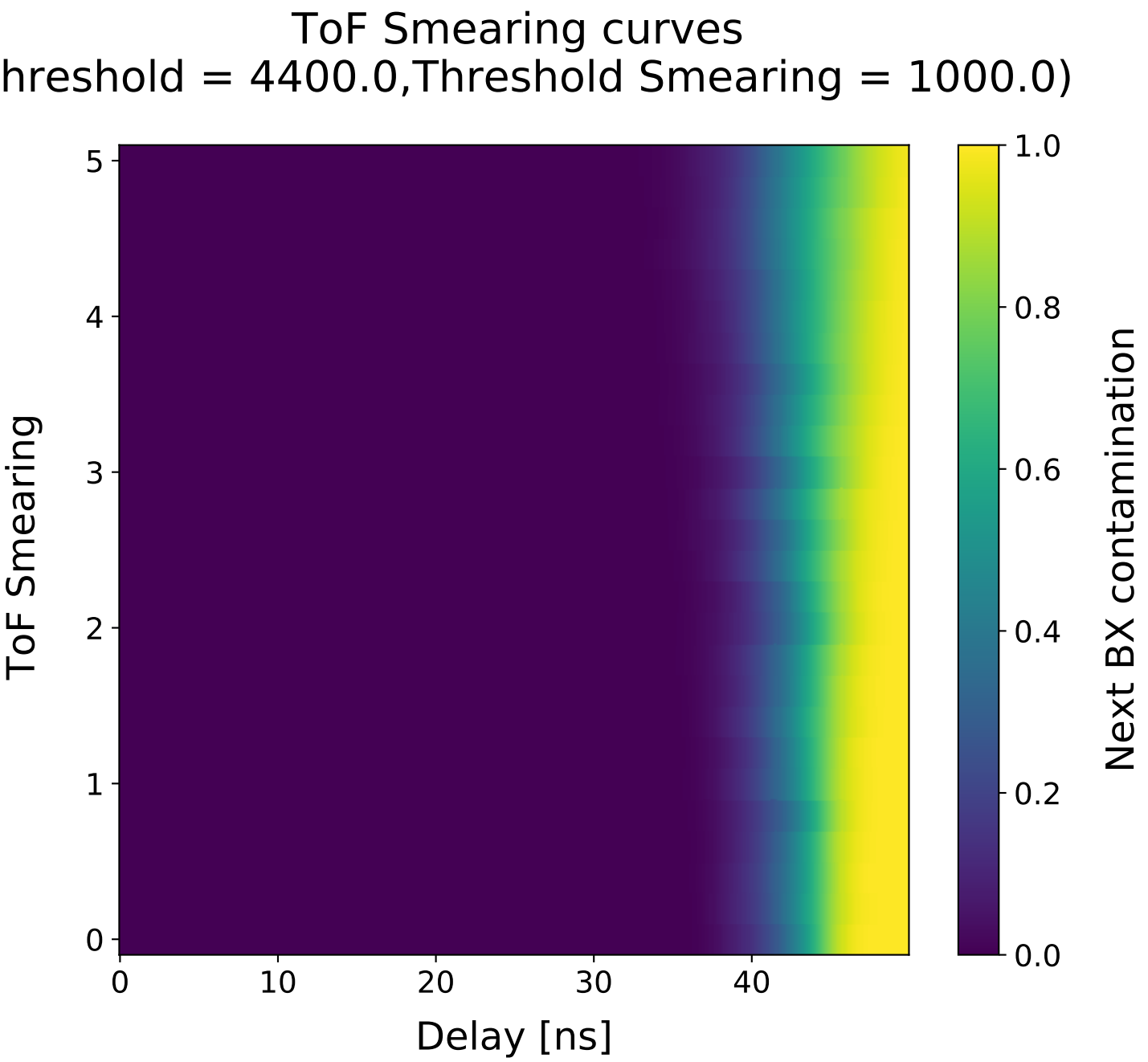

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

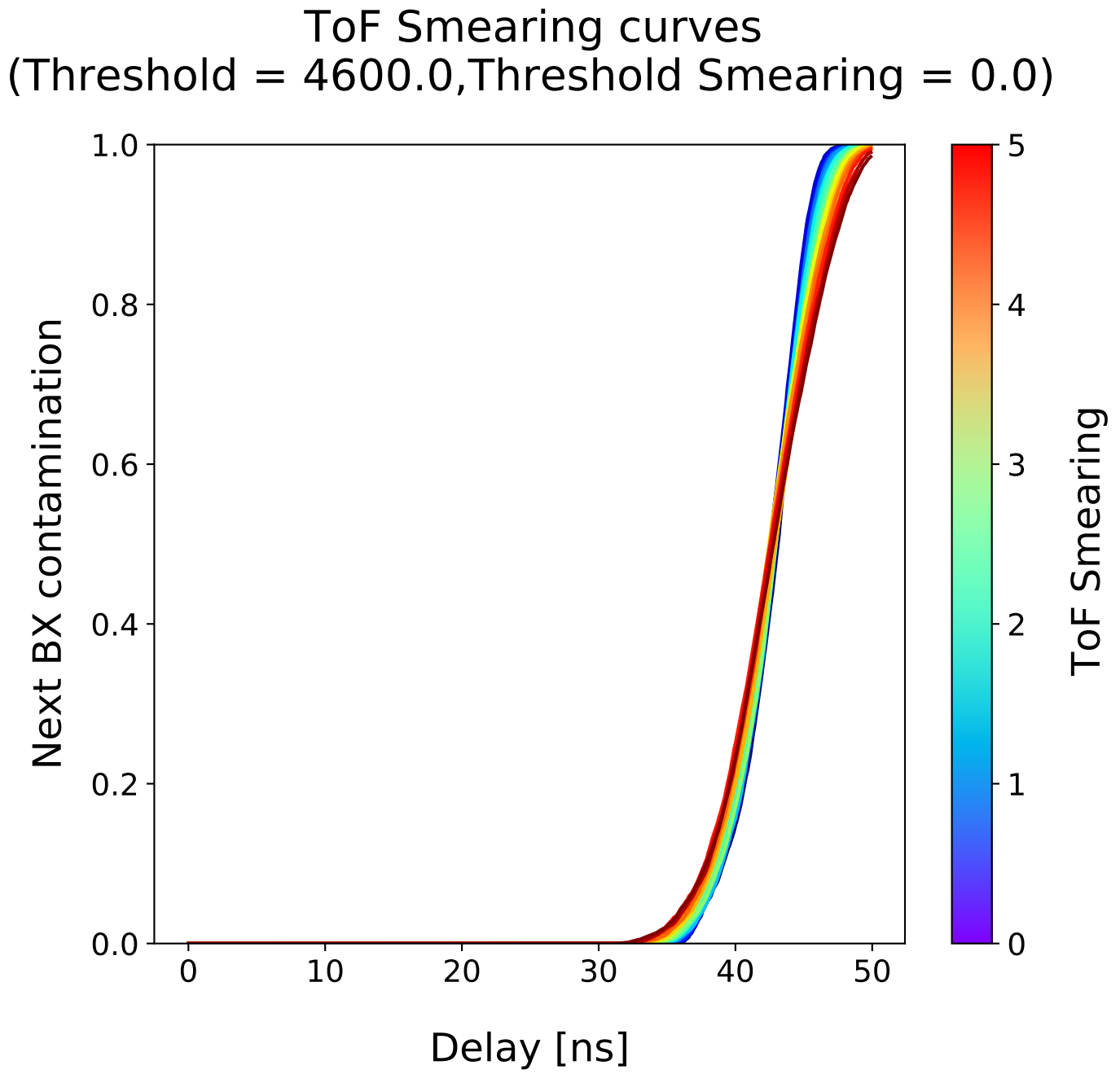

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

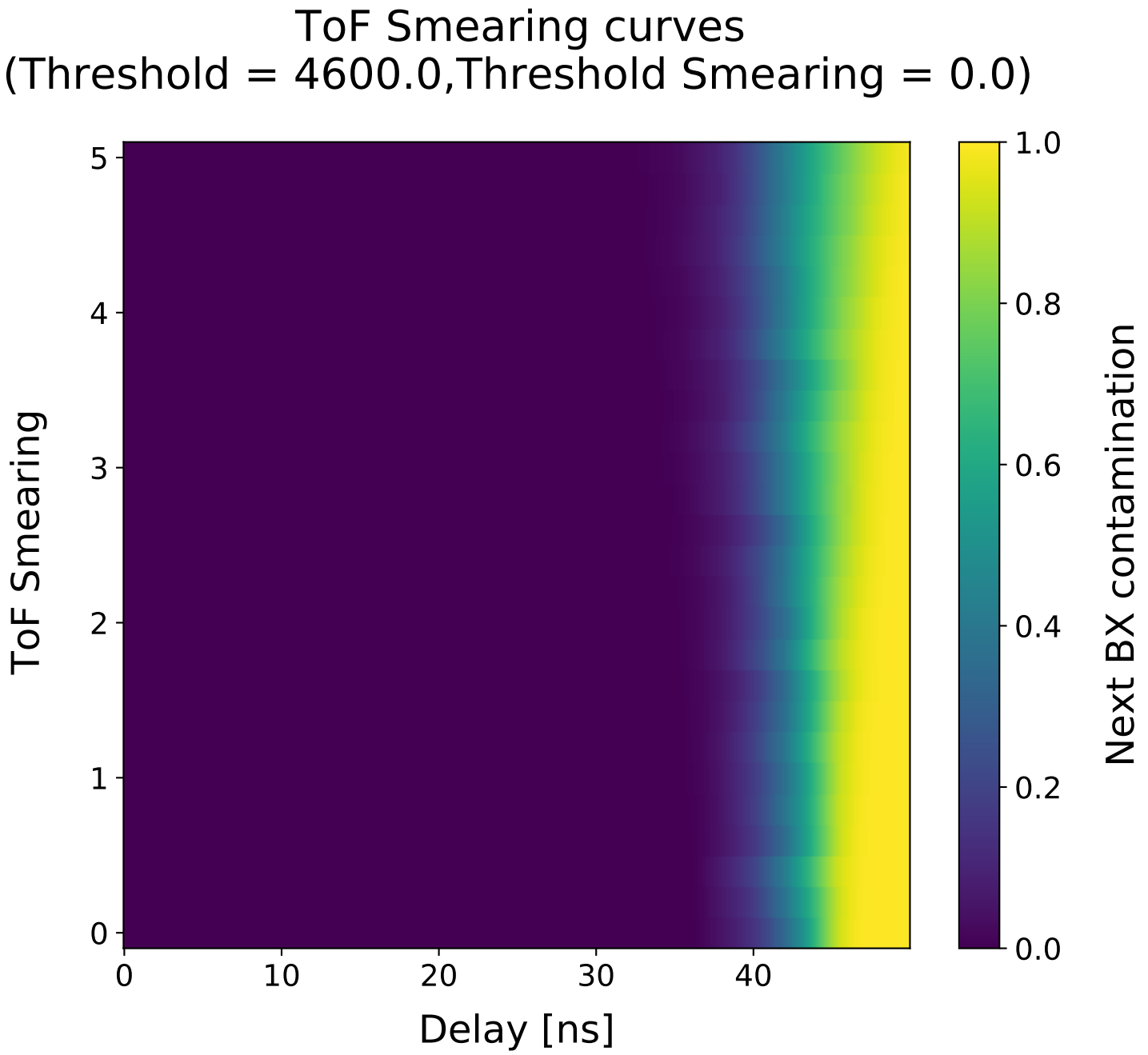

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

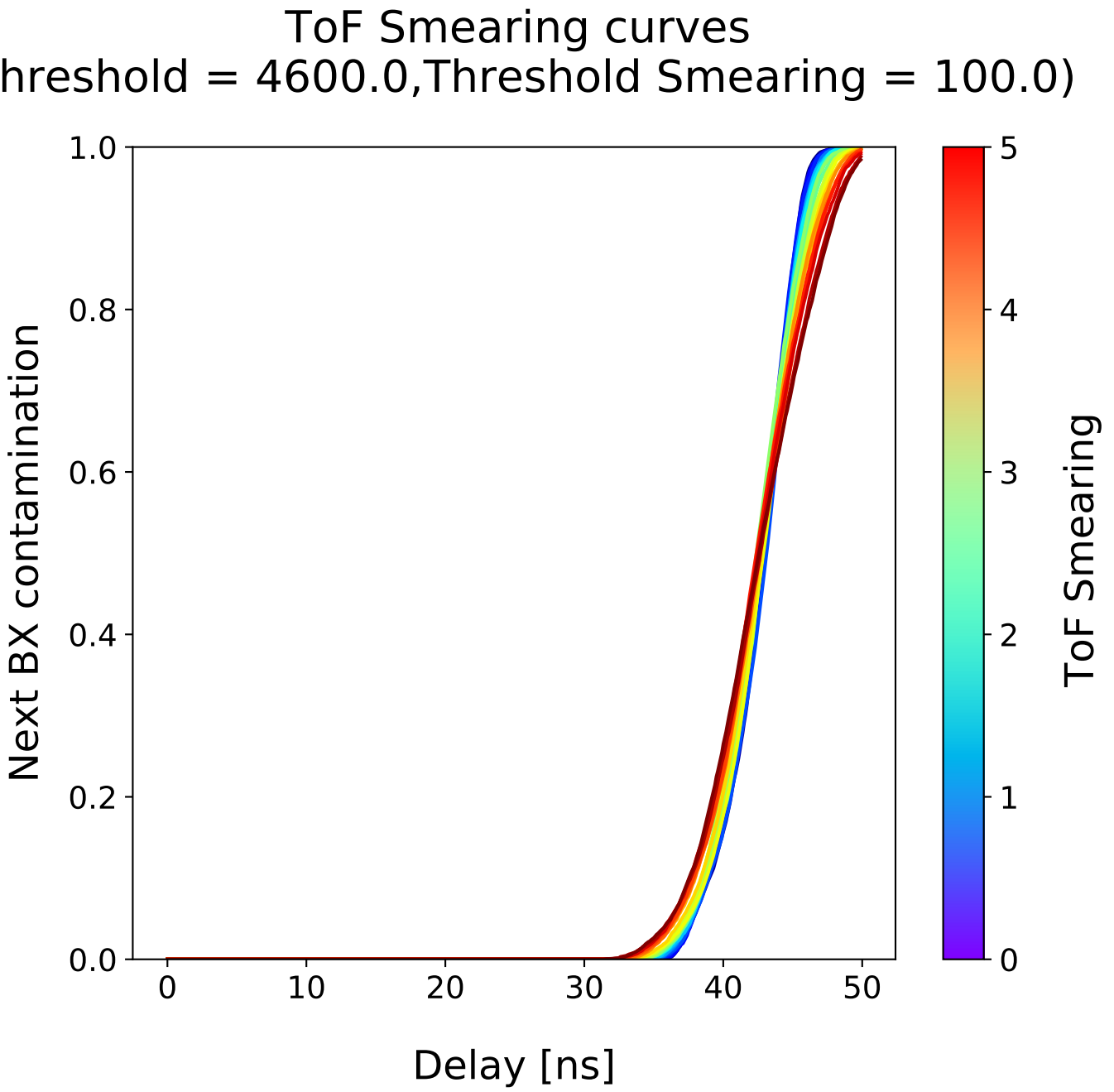

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

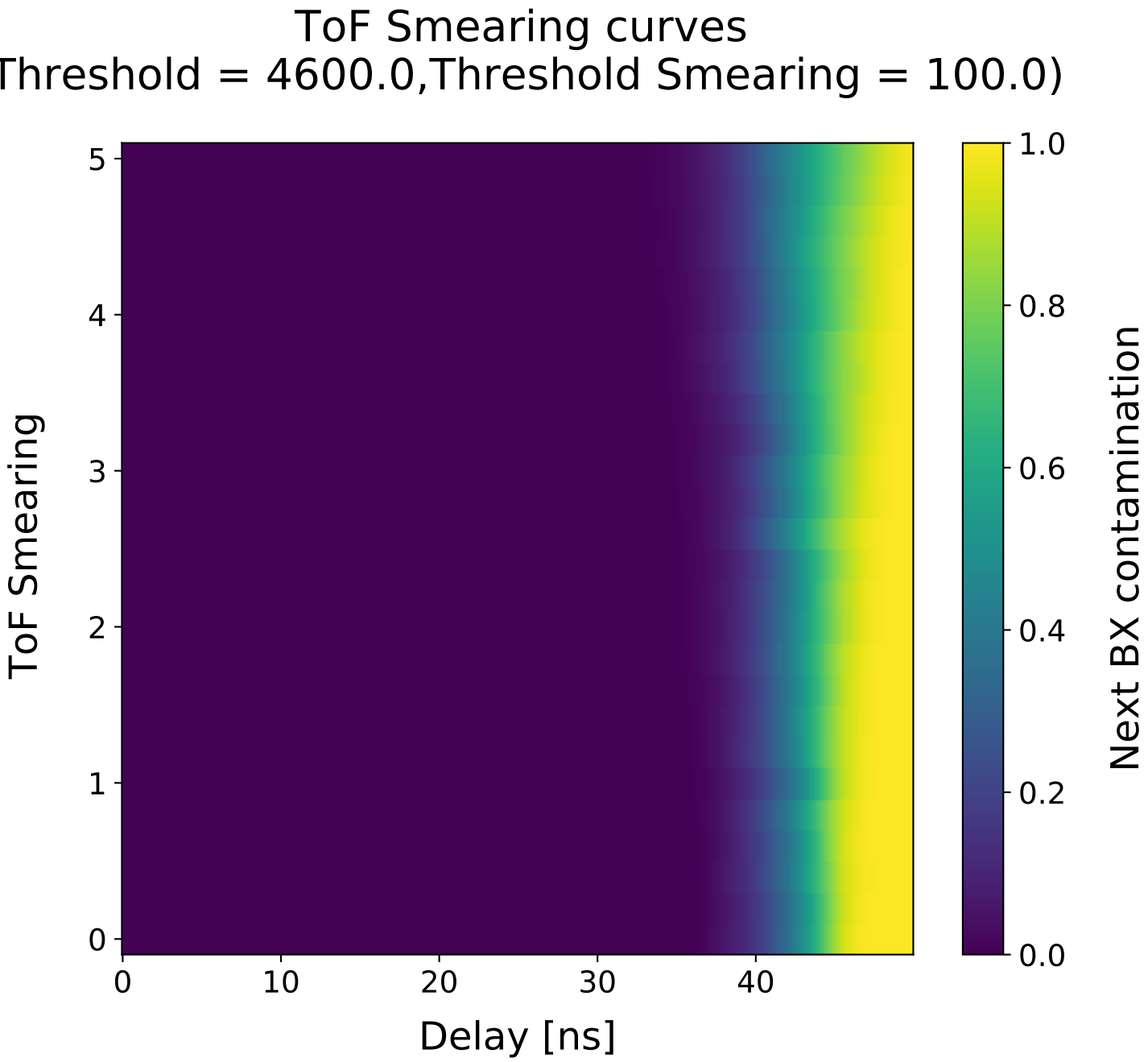

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

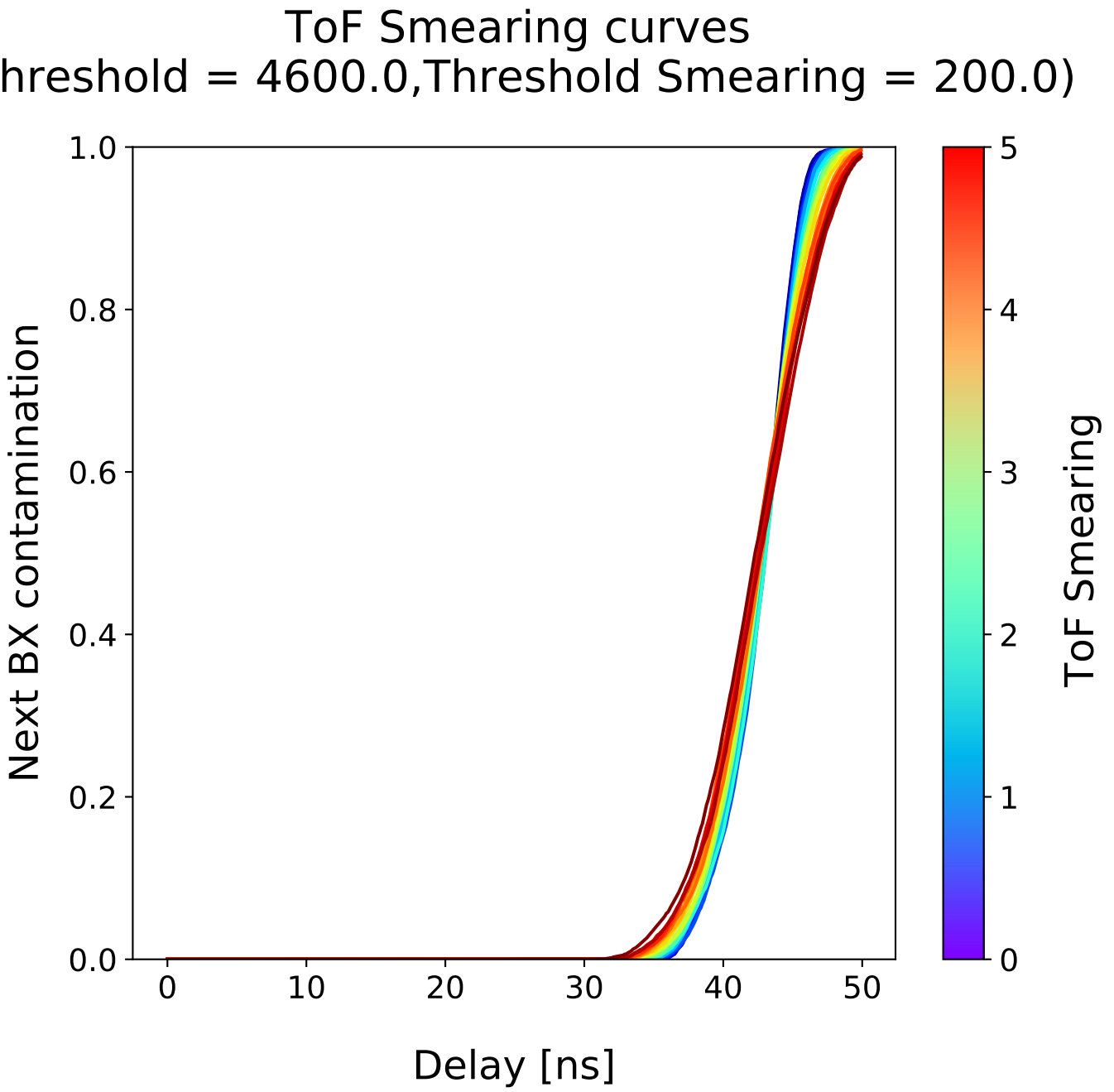

ToF Smearing curves
(Threshold = 4400.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

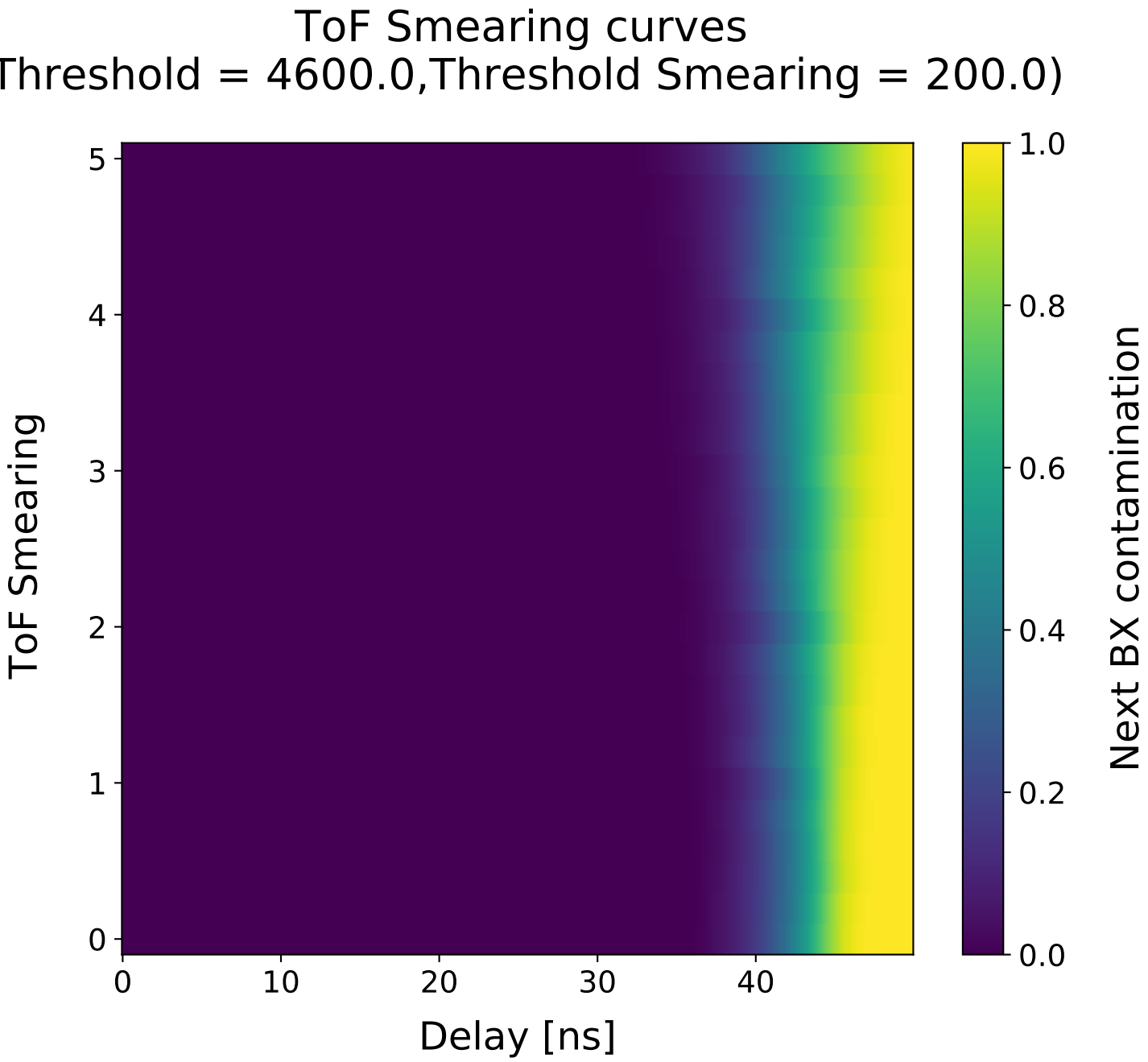

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

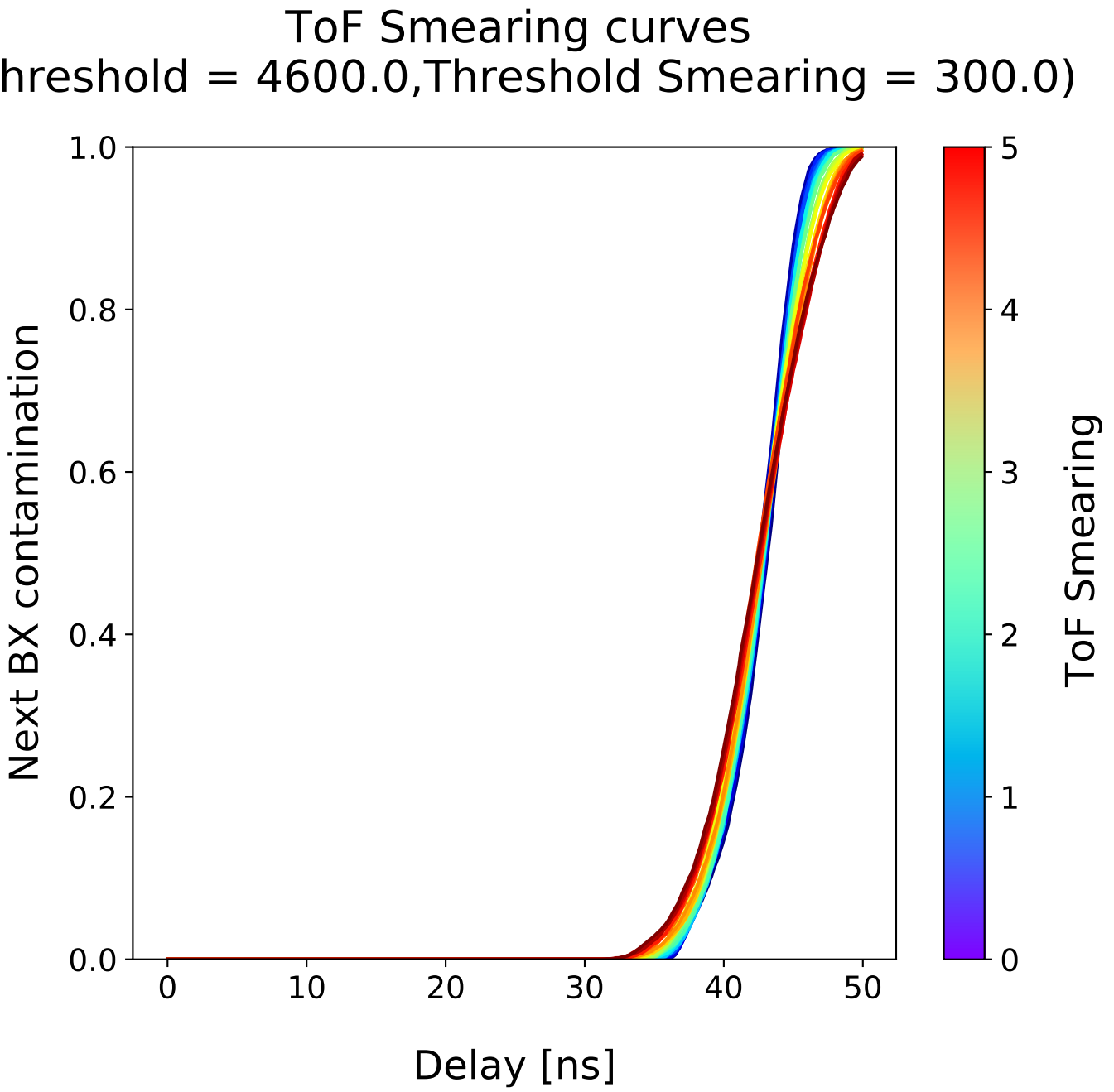

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

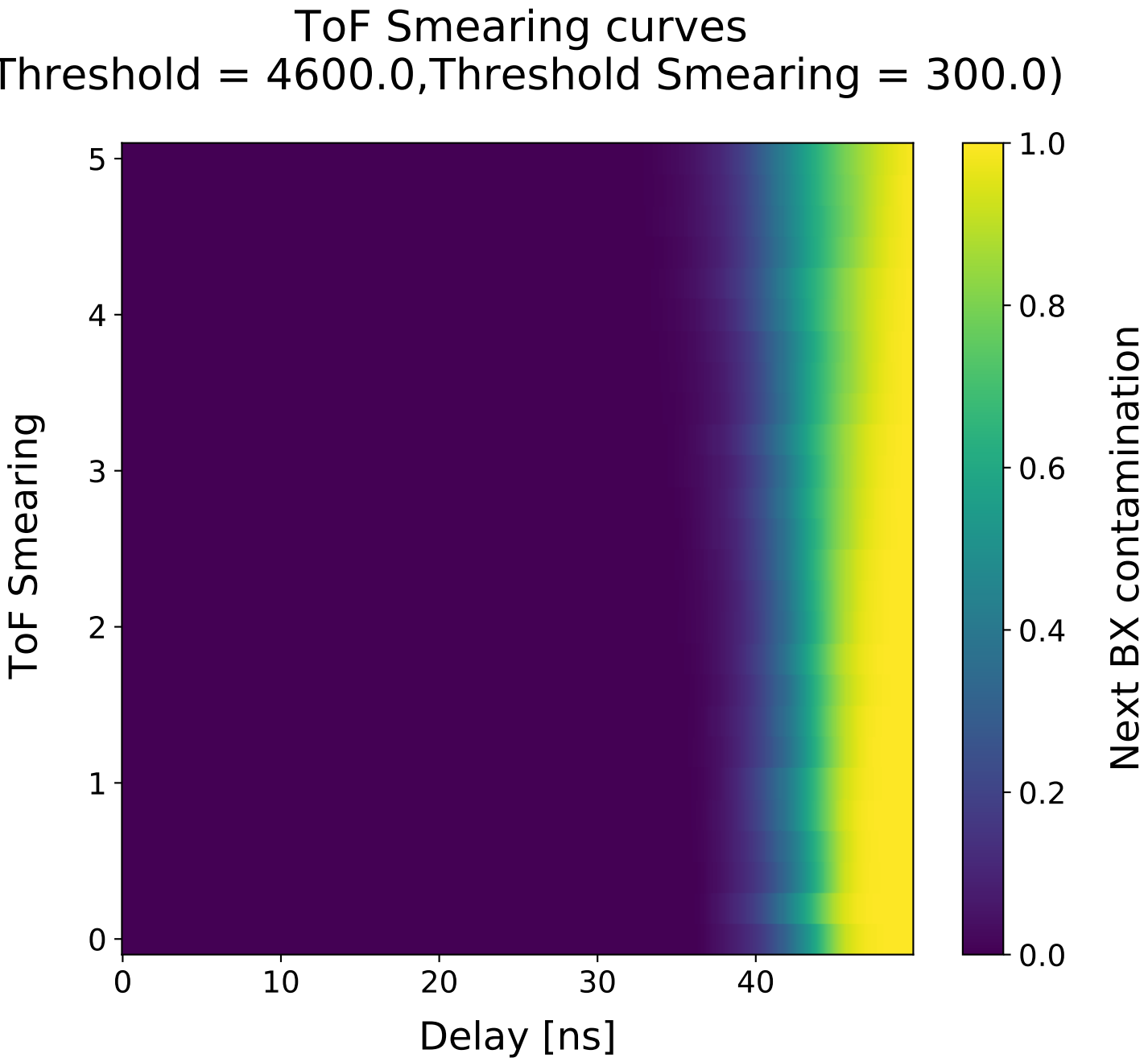

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

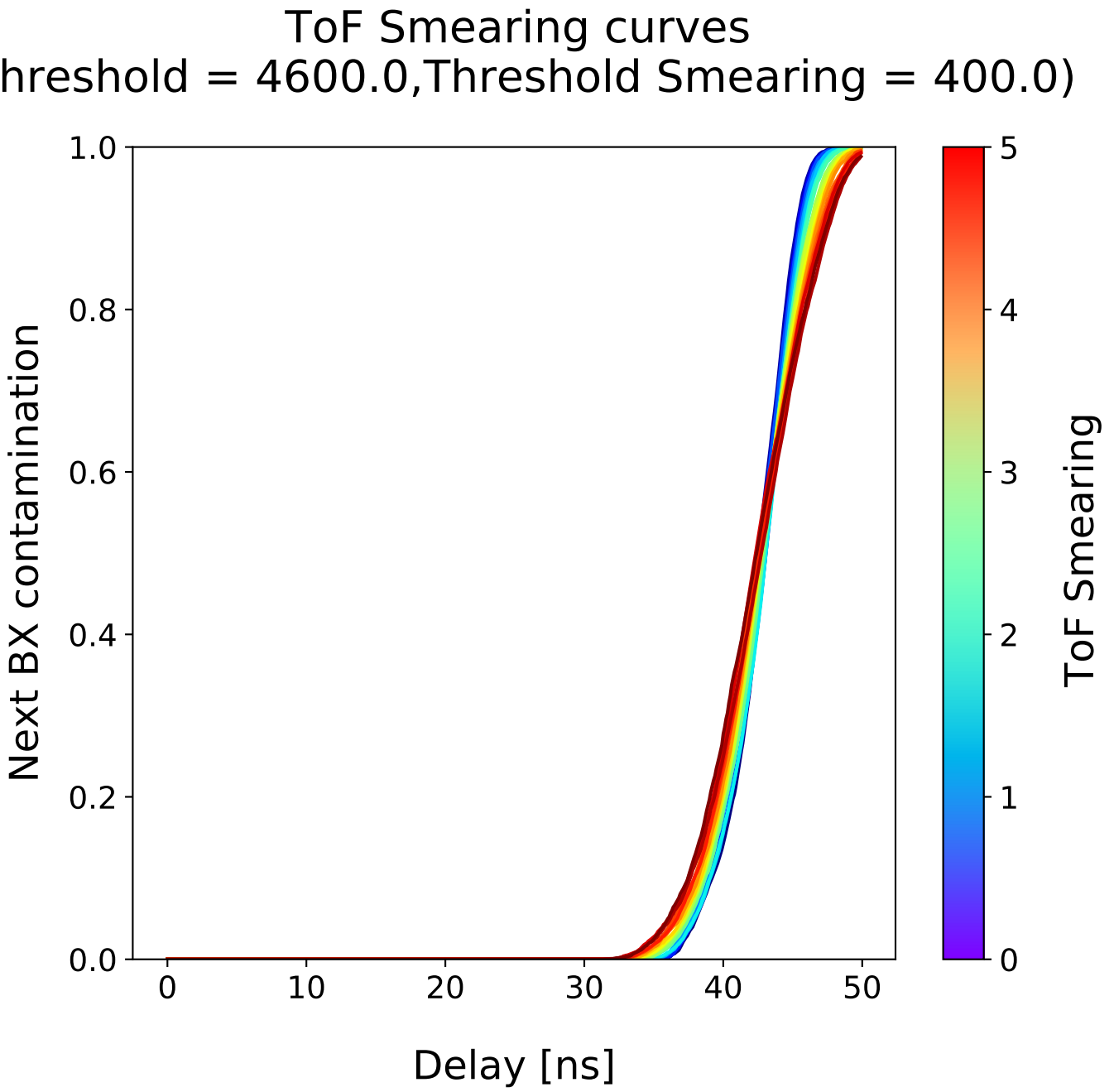

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

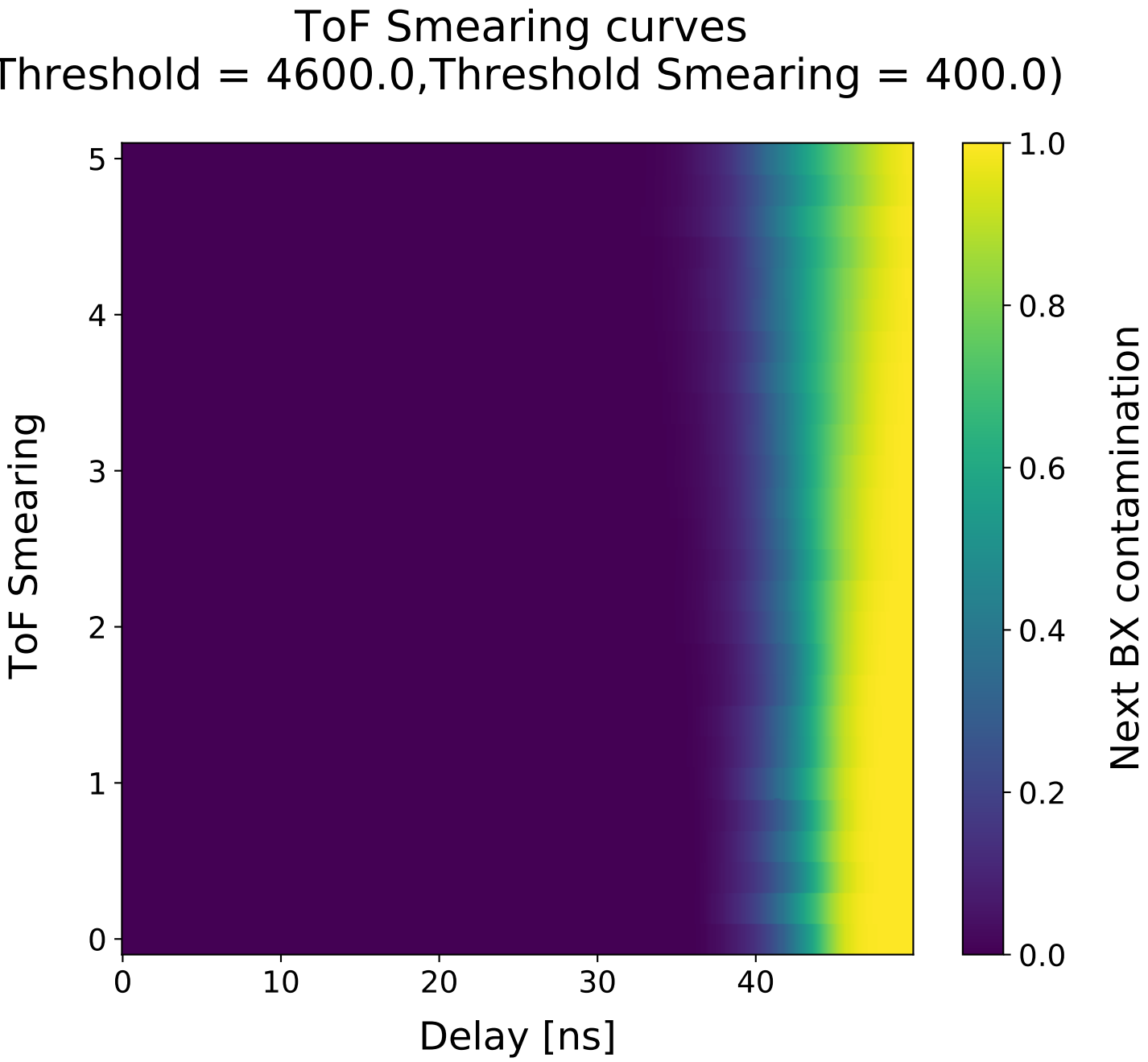

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

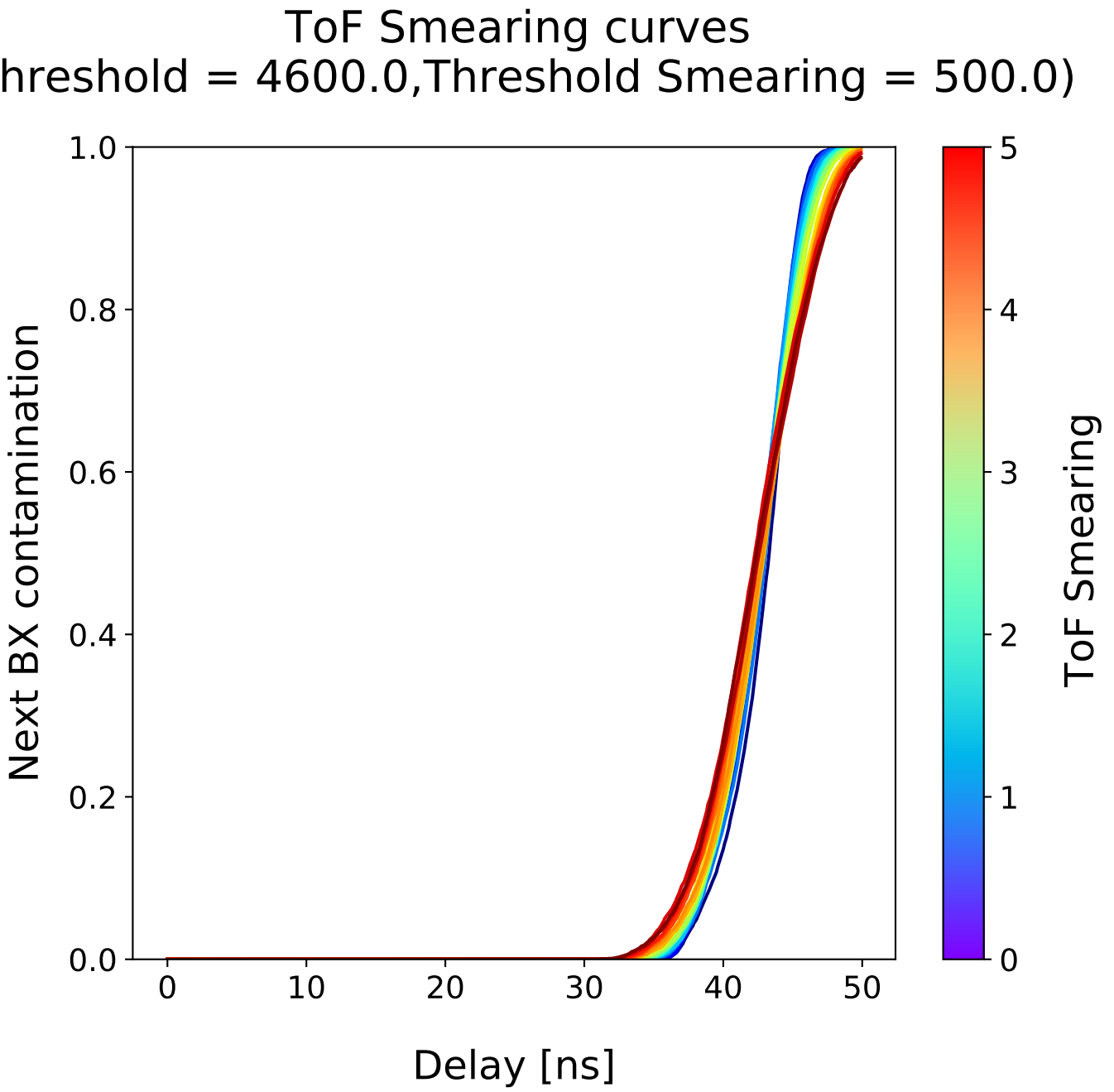

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

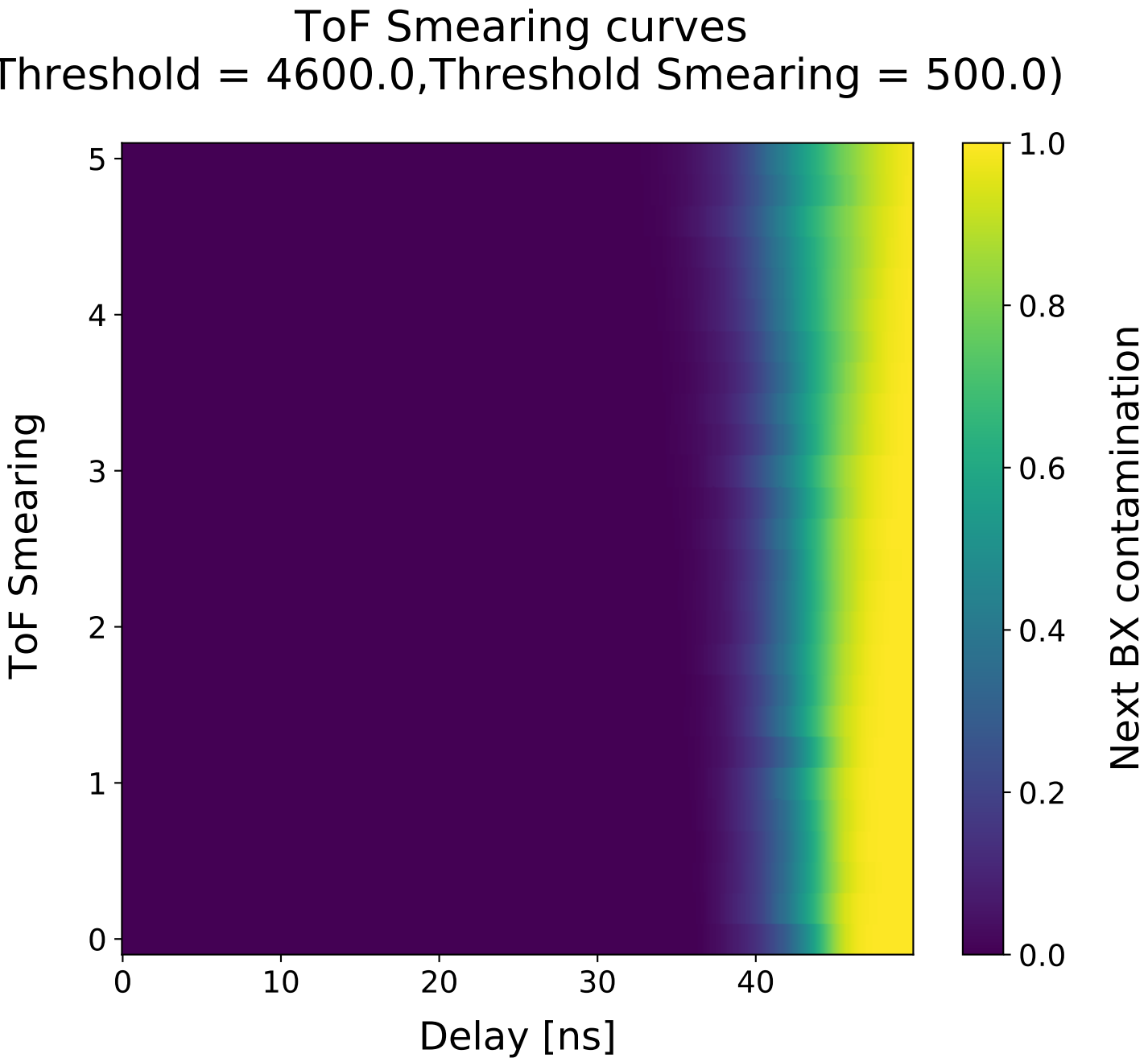

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

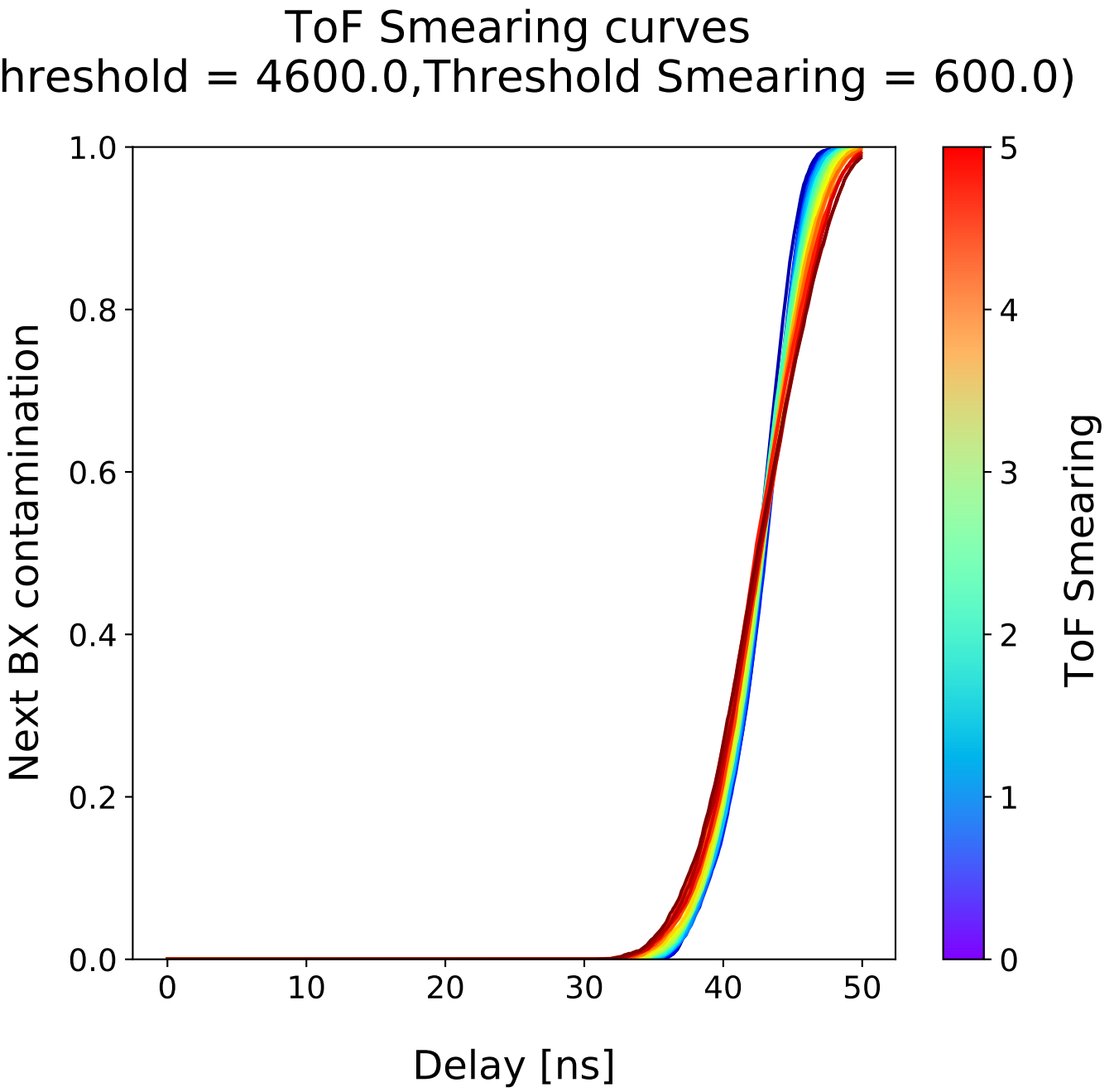

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

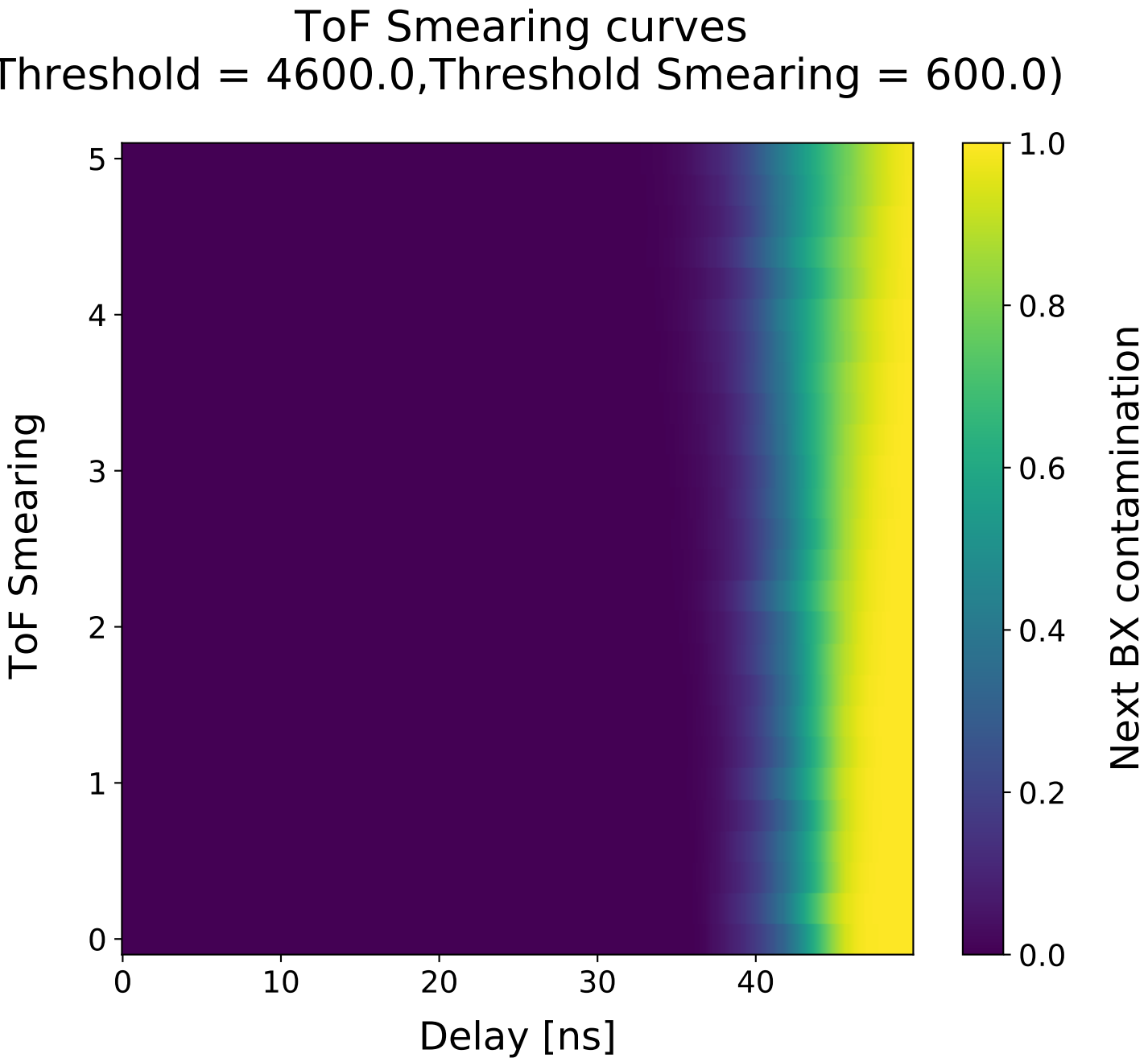

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

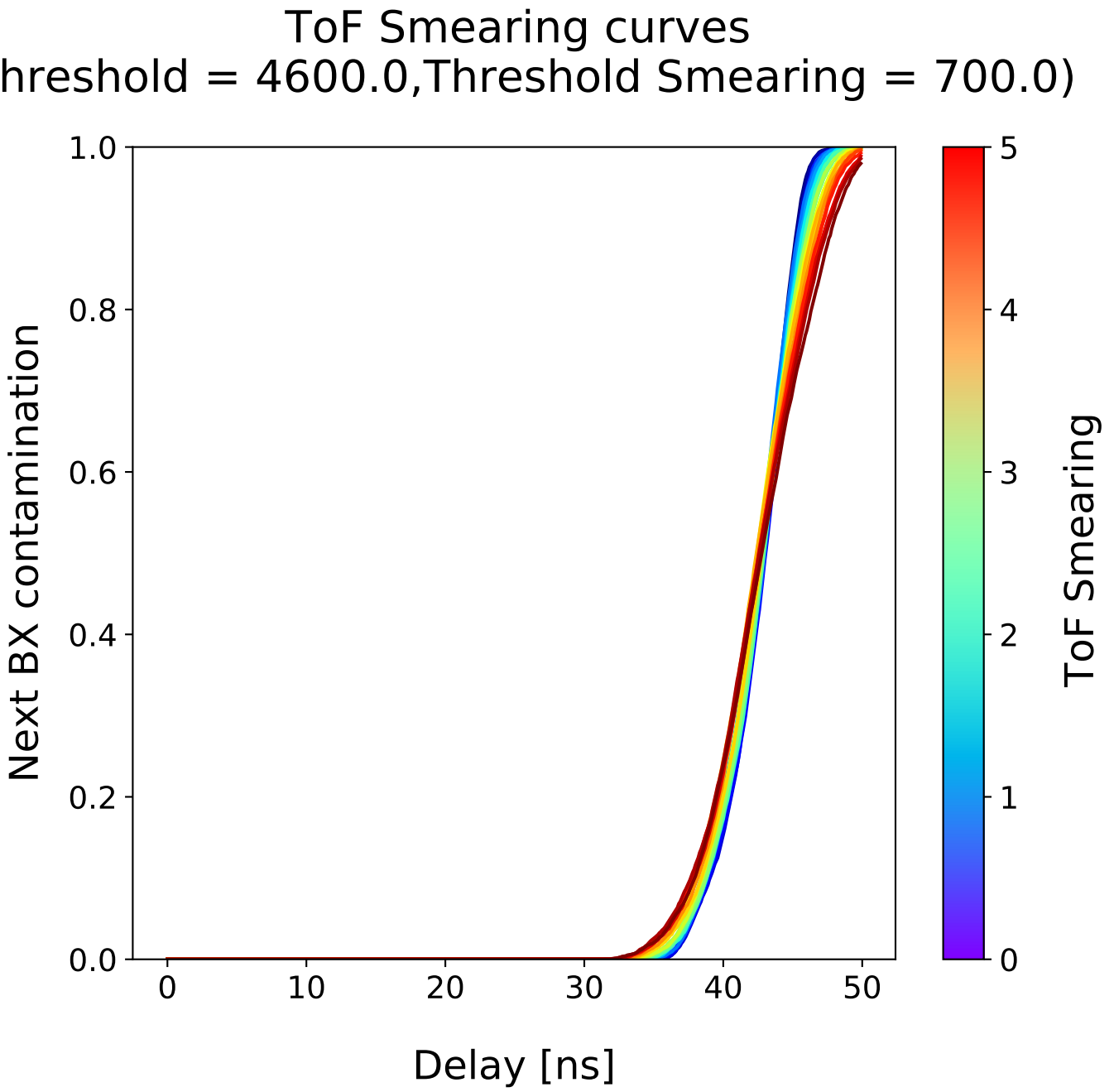

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

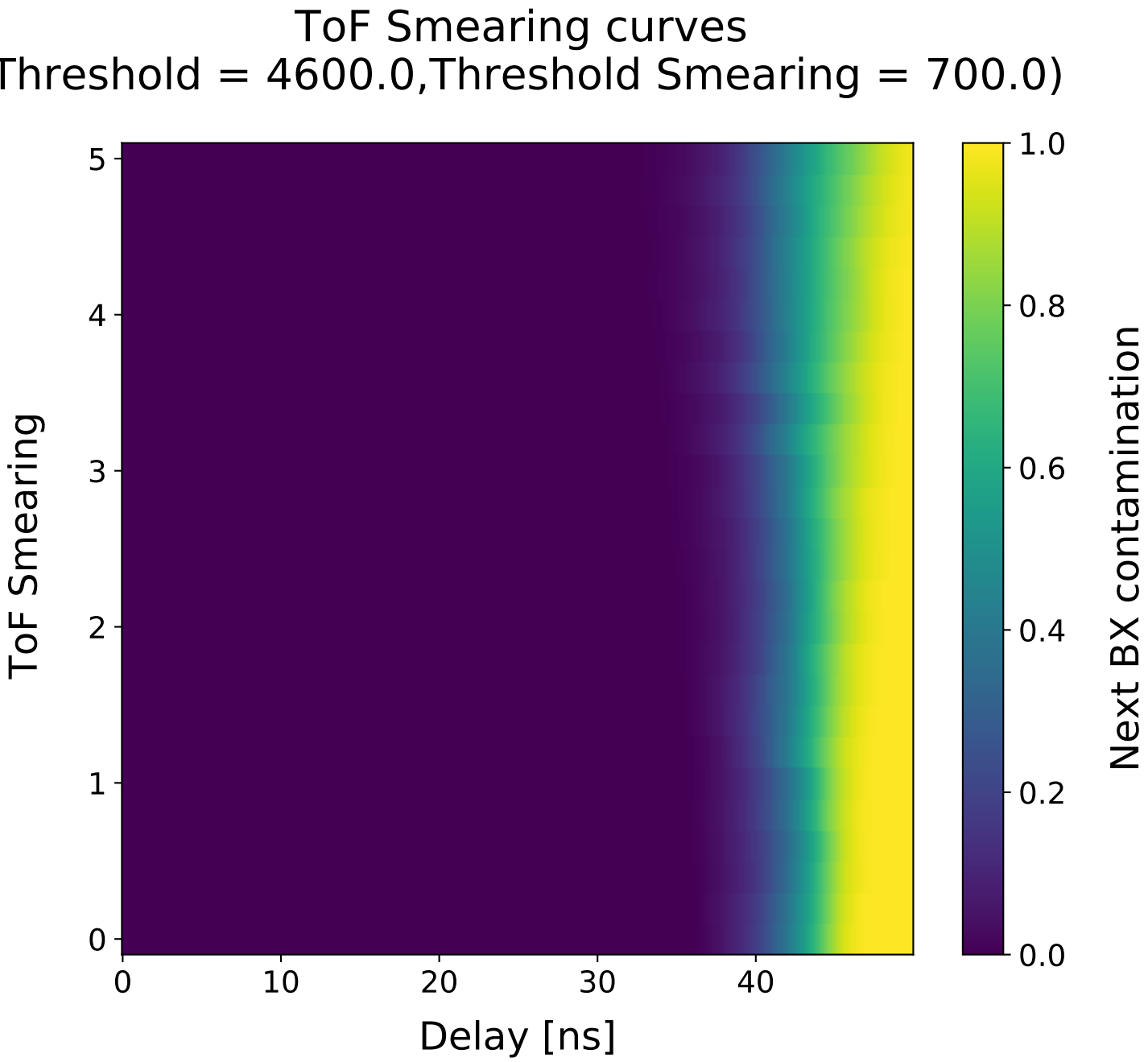

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

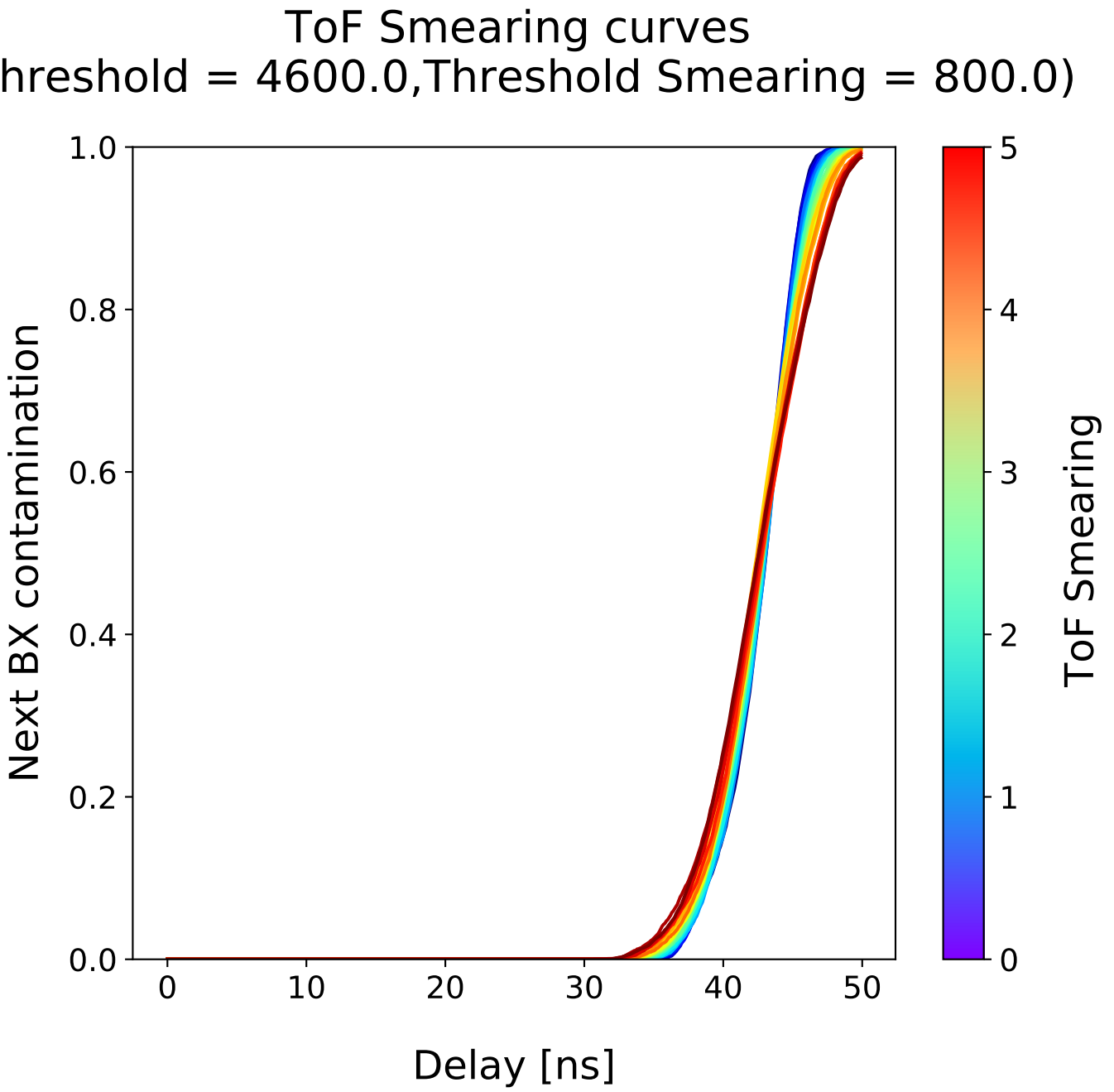

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

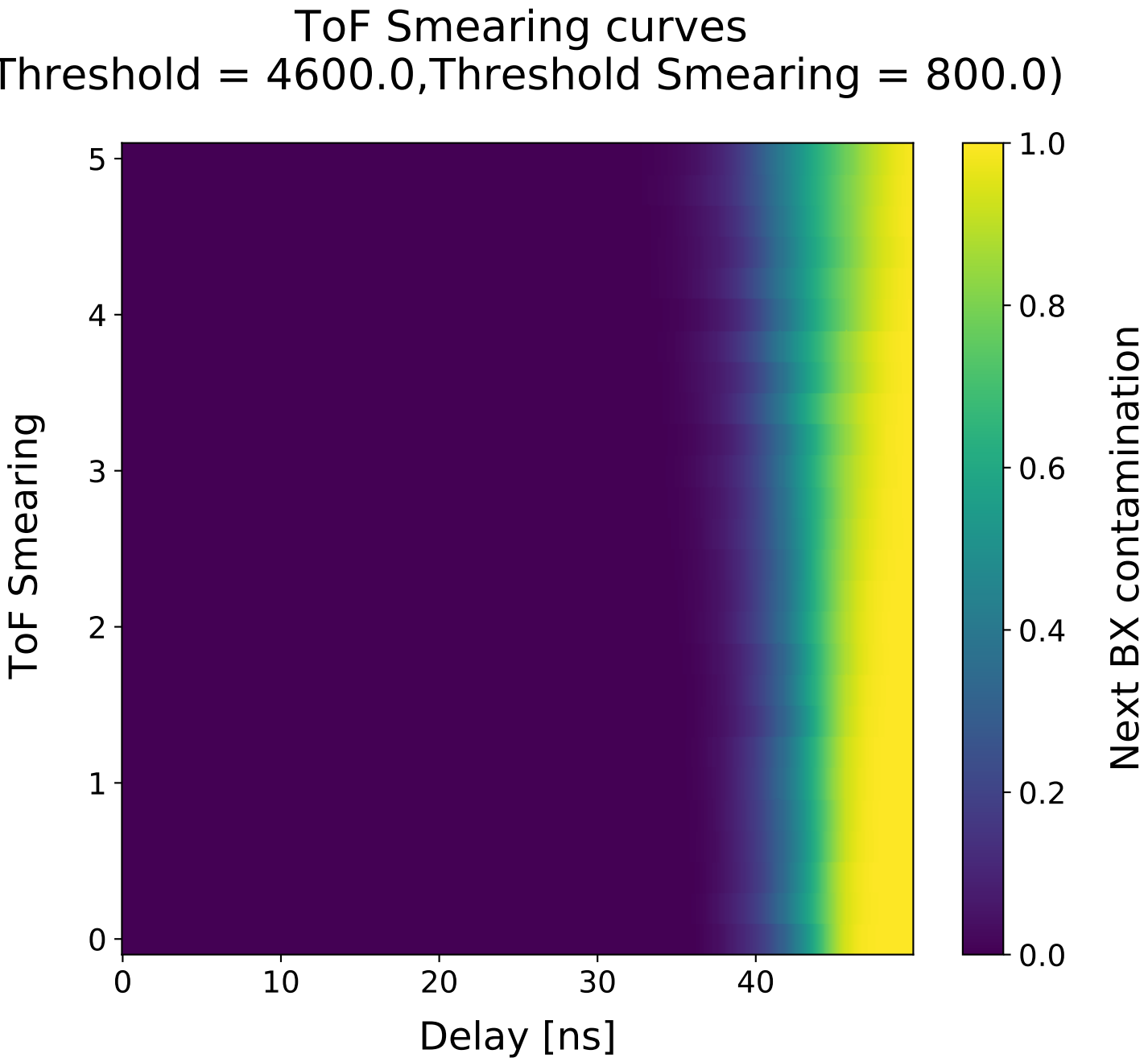

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

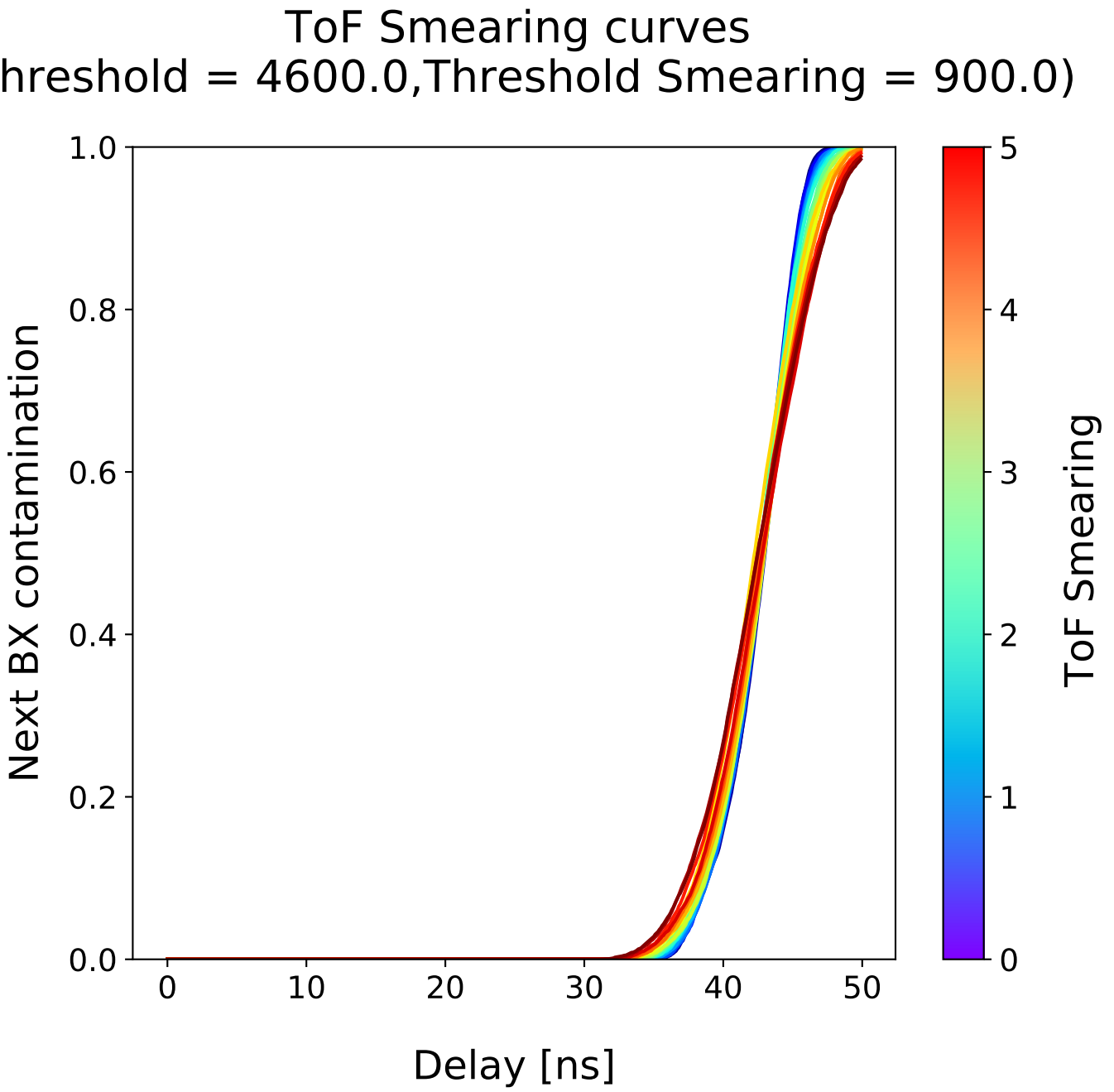

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

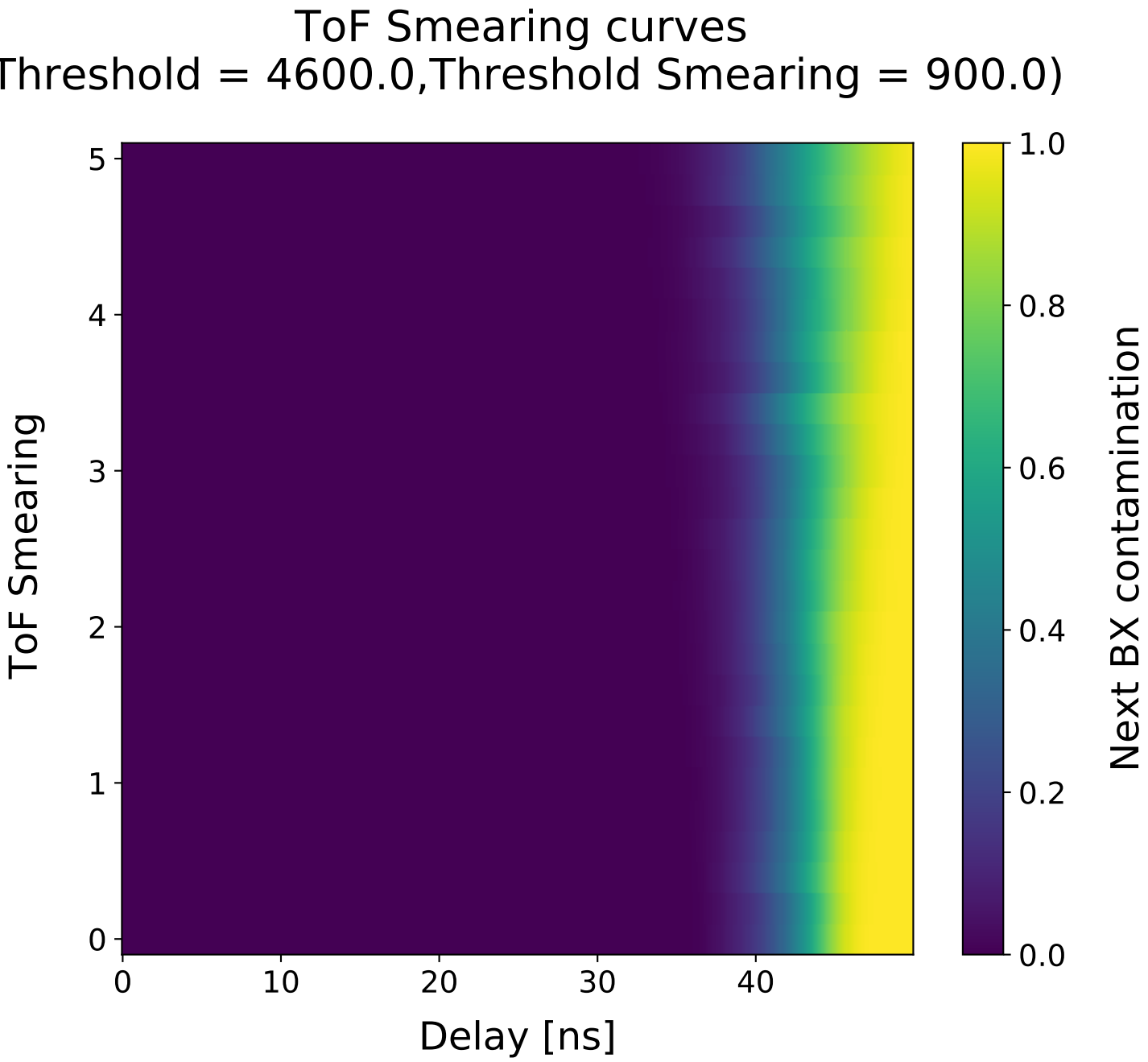

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

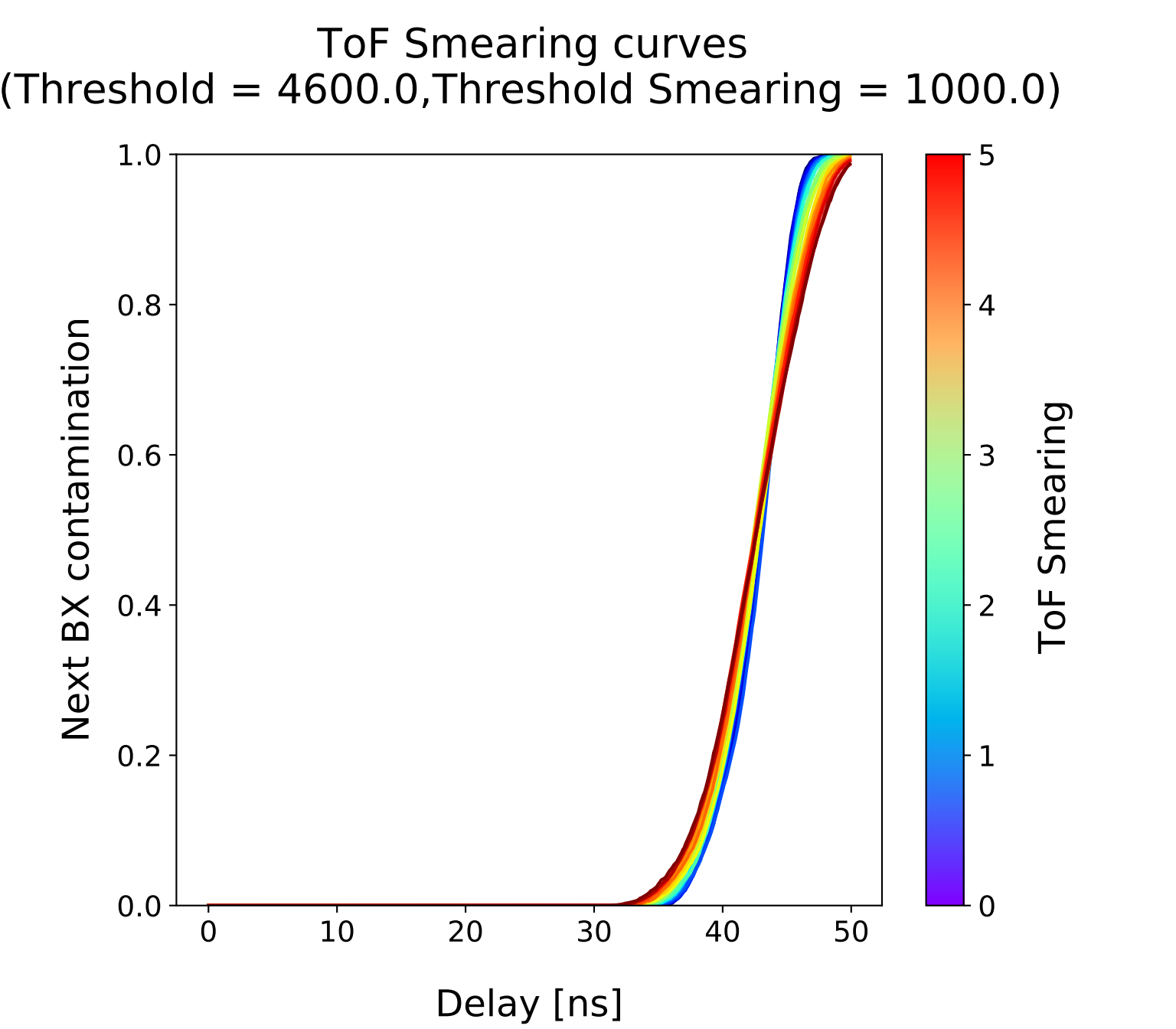

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

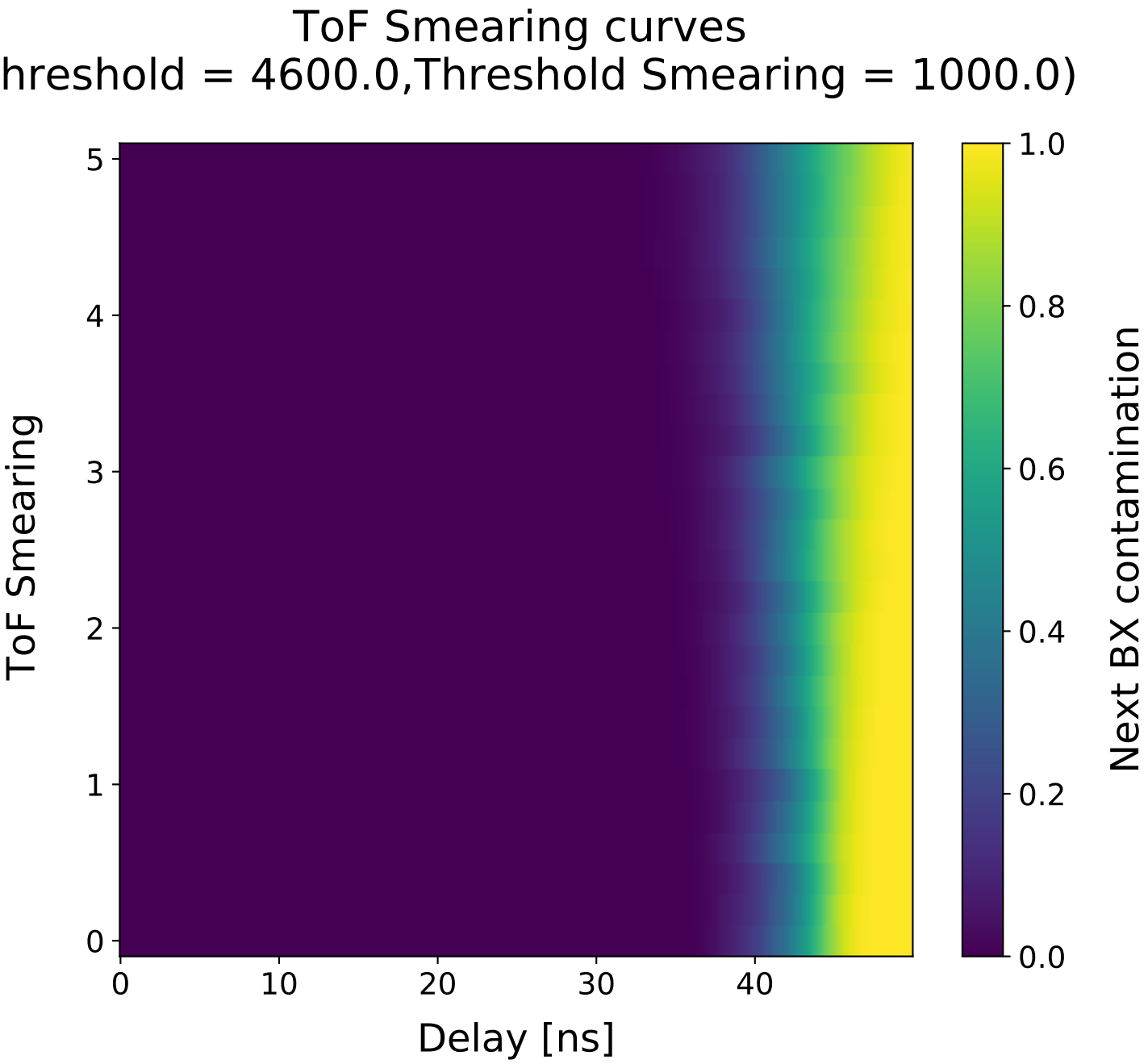

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

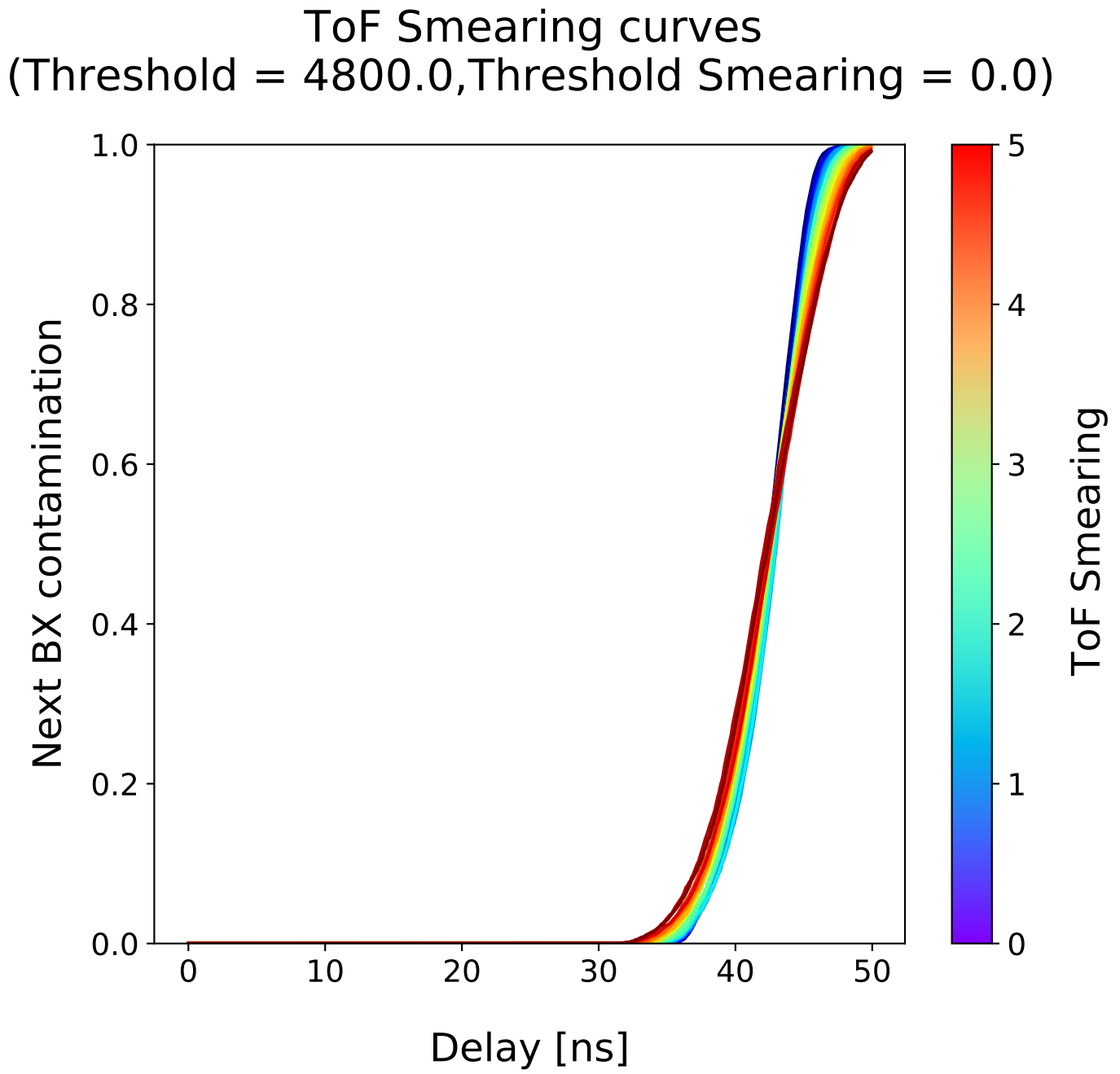

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

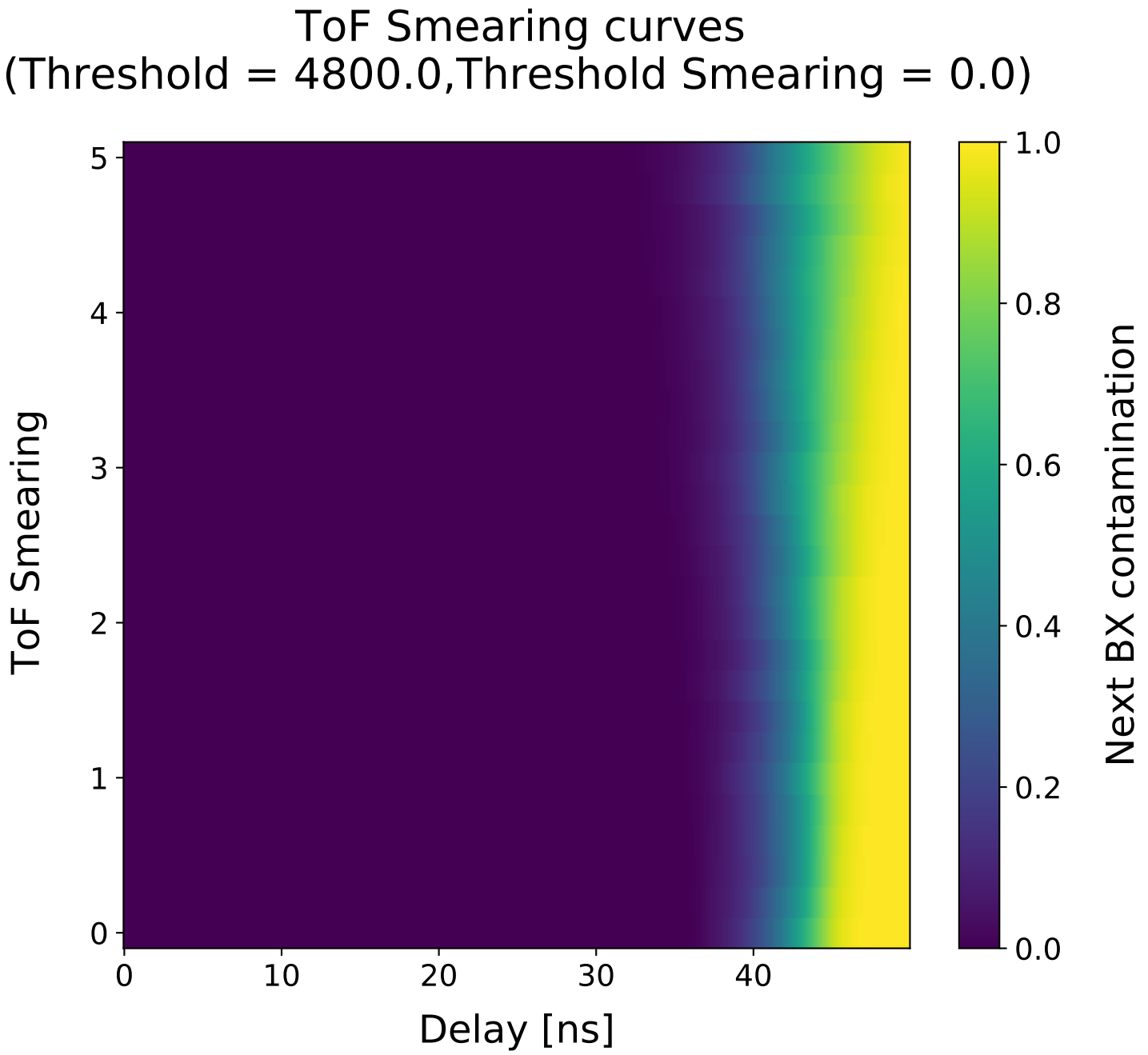

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

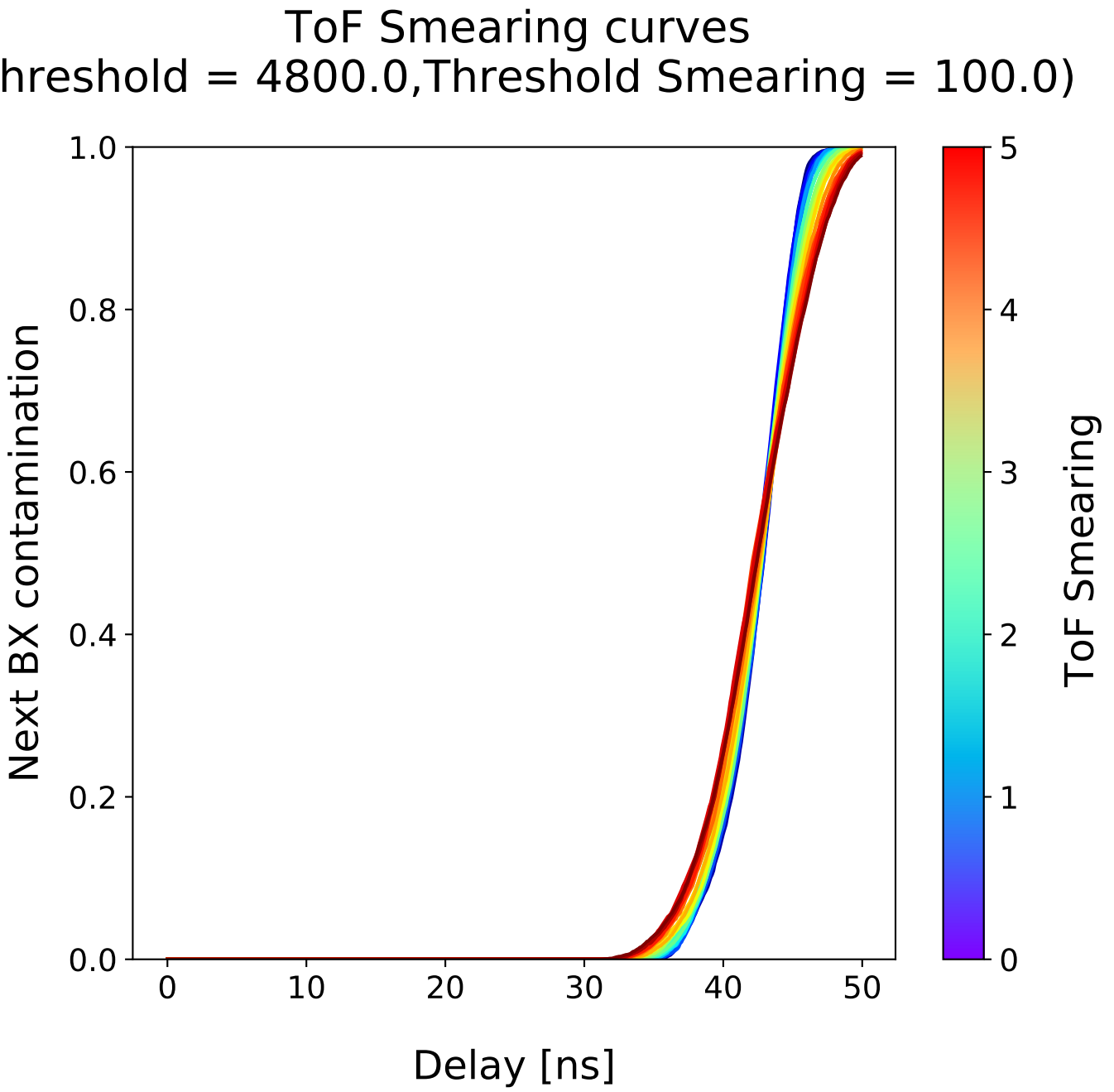

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

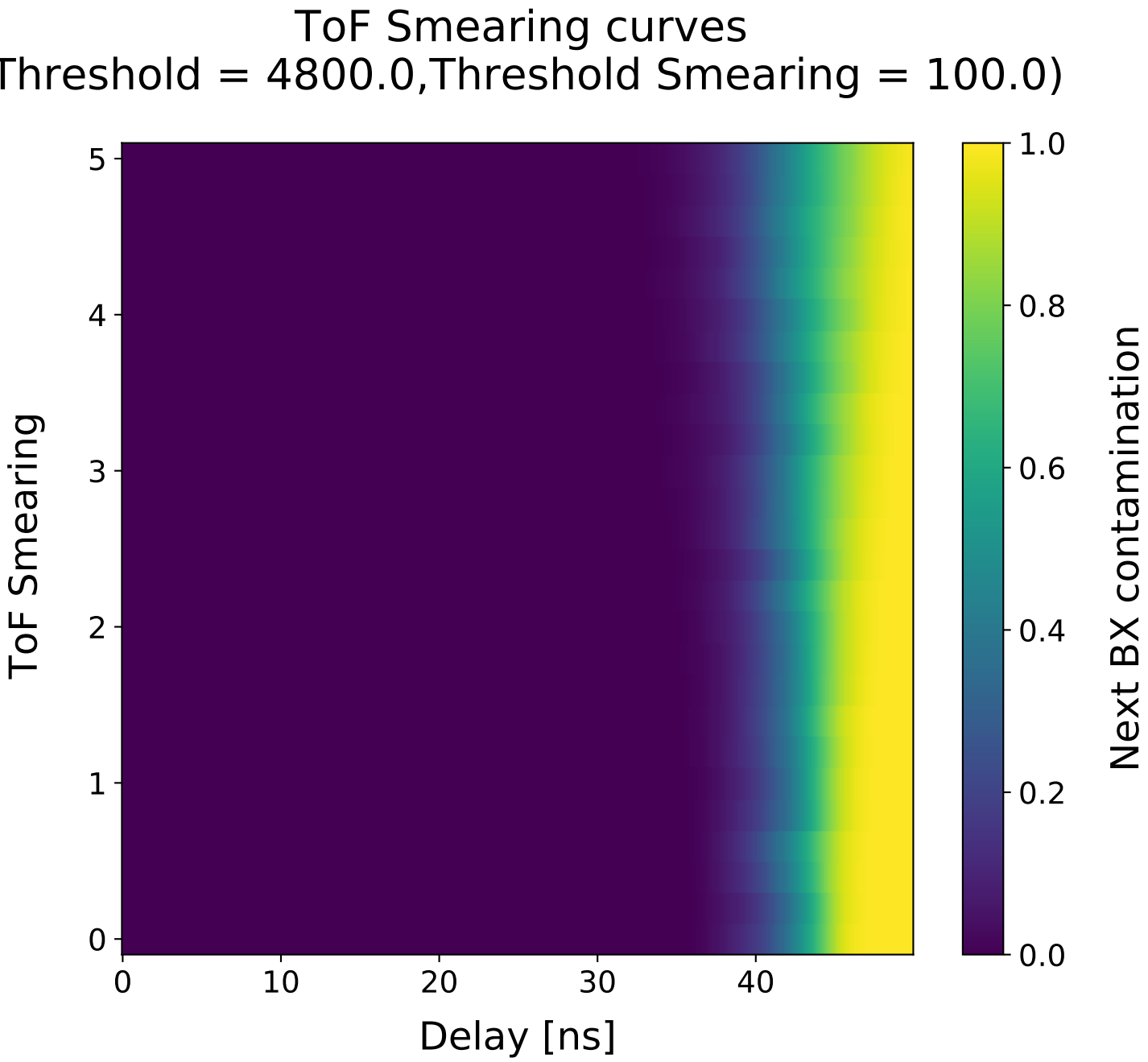

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

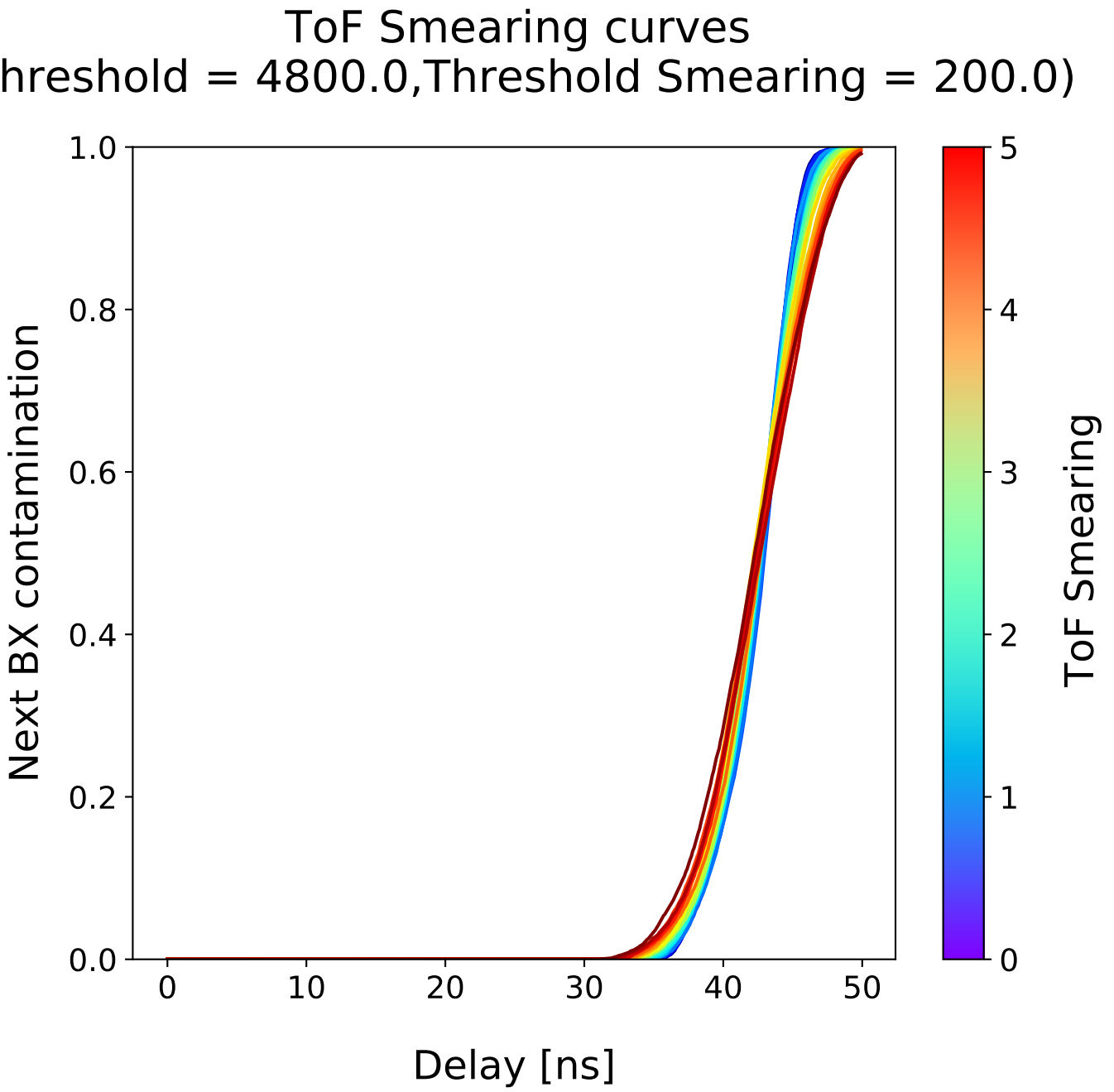

ToF Smearing curves
(Threshold = 4600.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

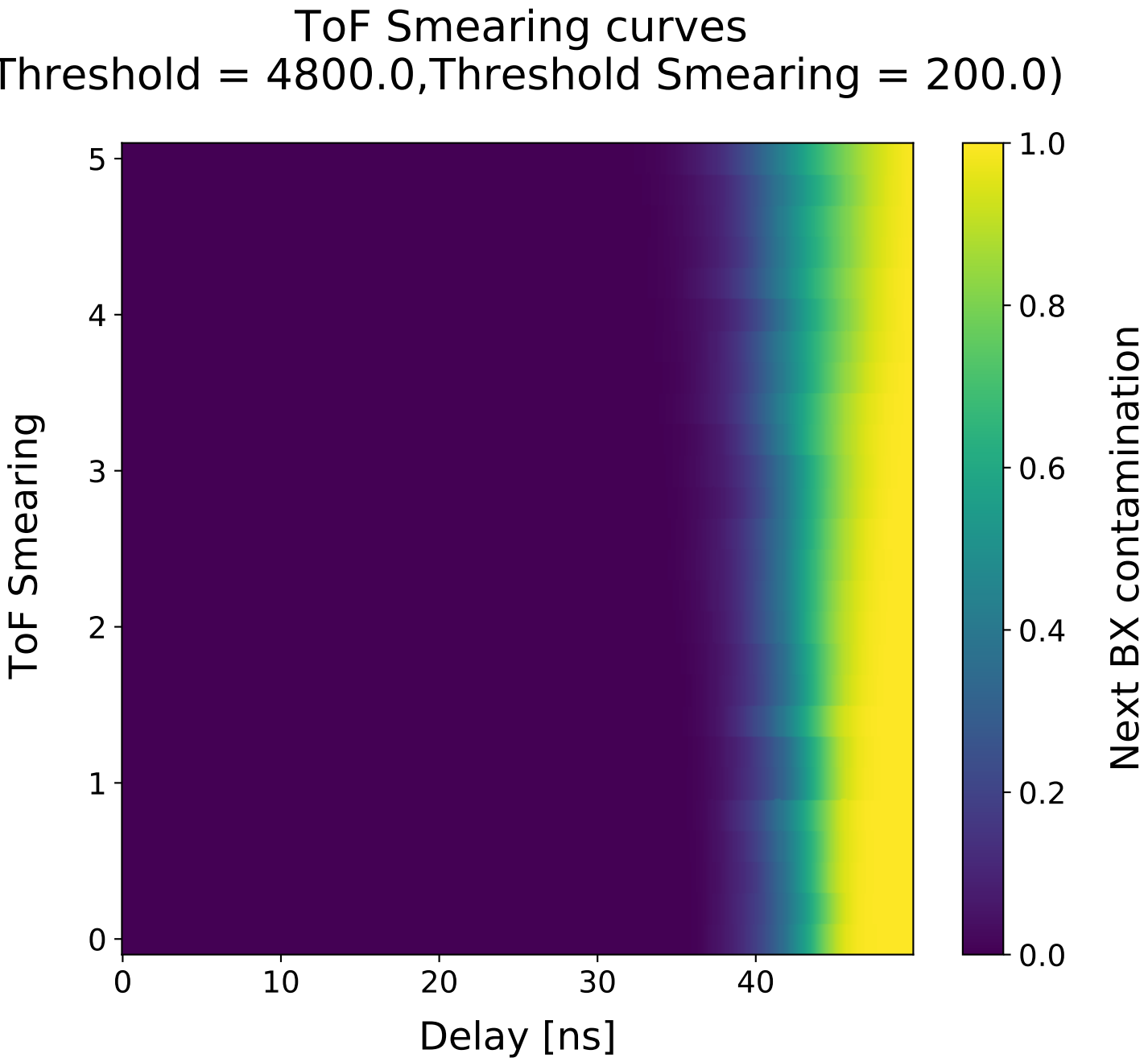

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

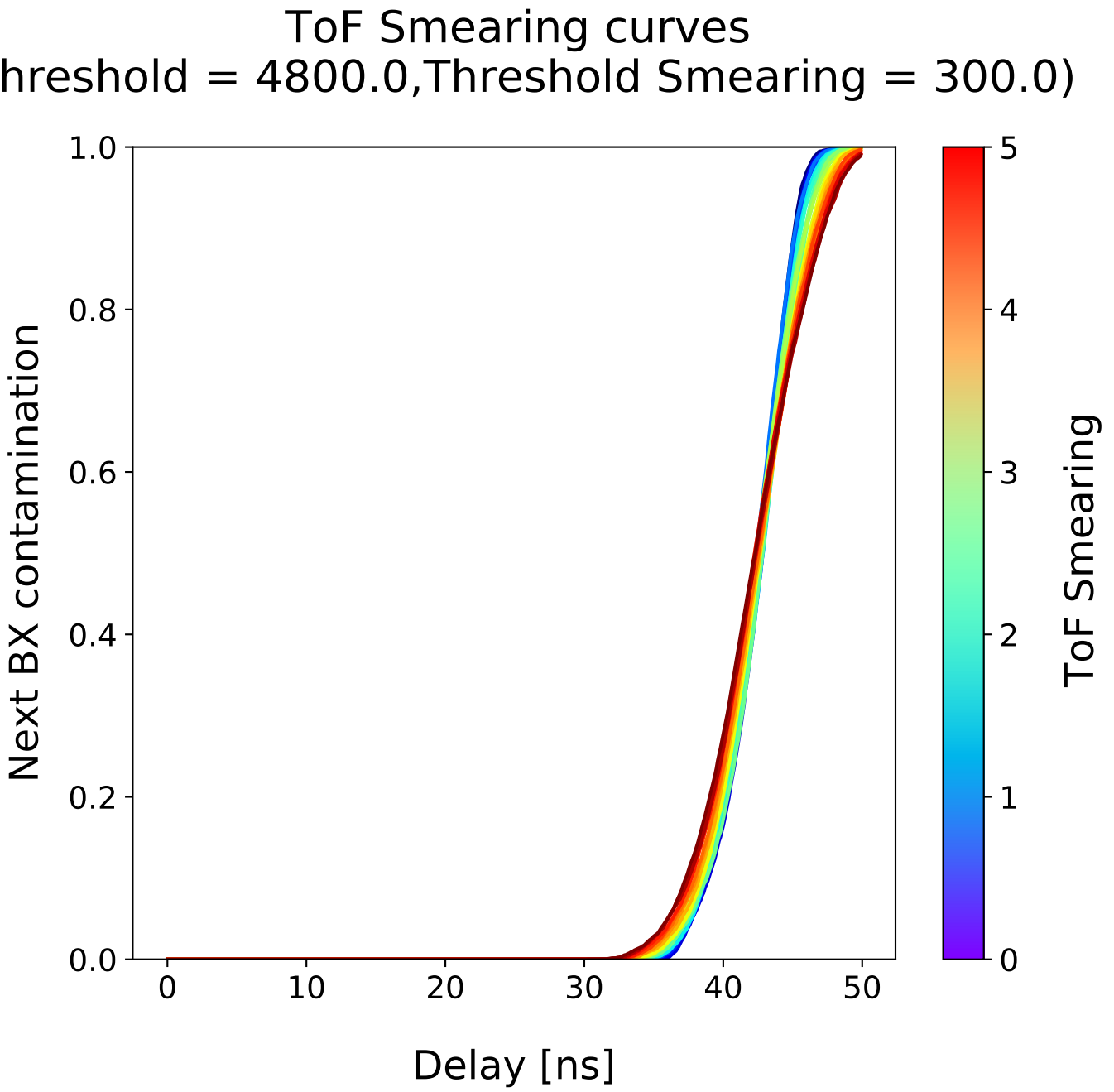

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

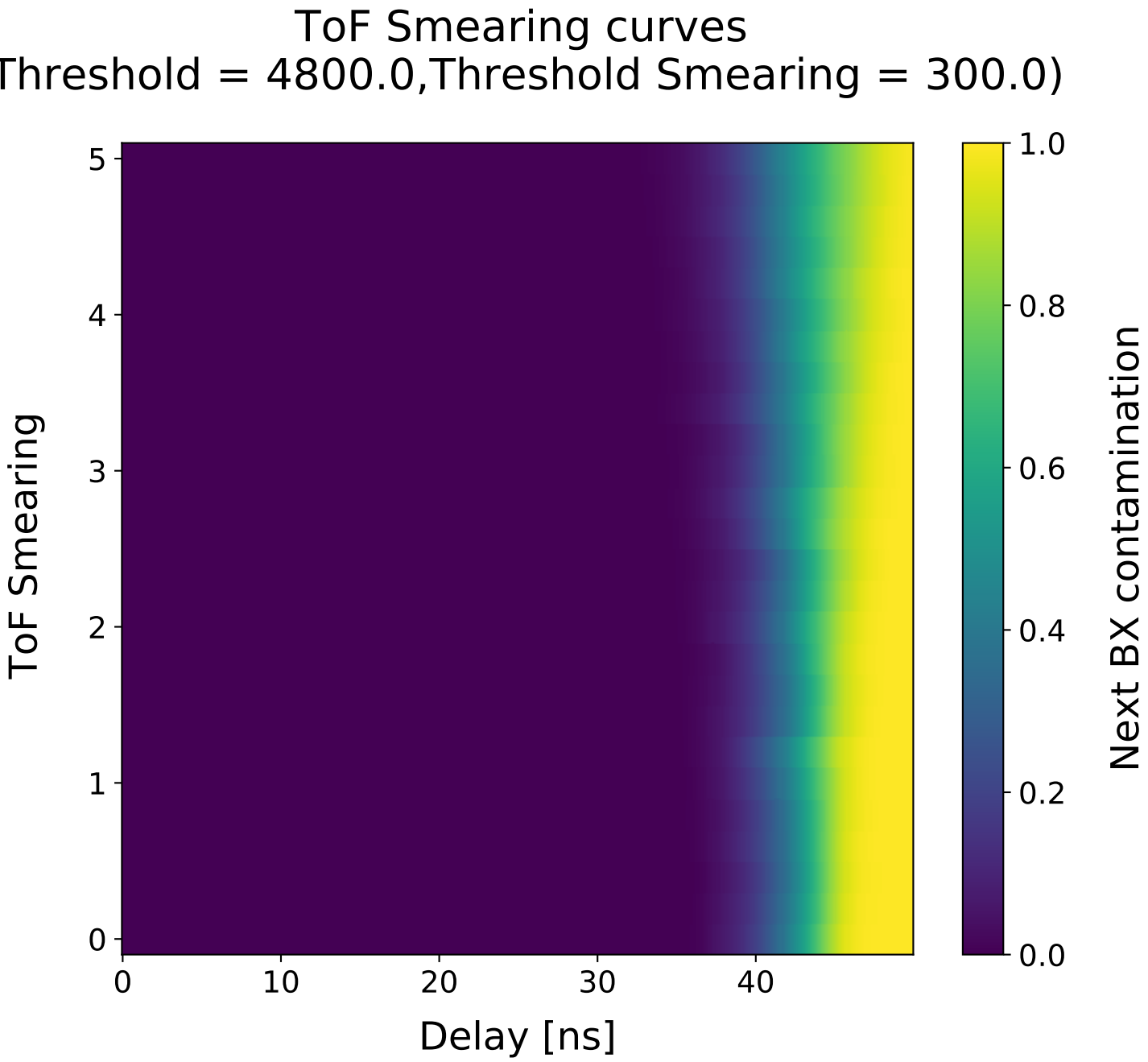

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

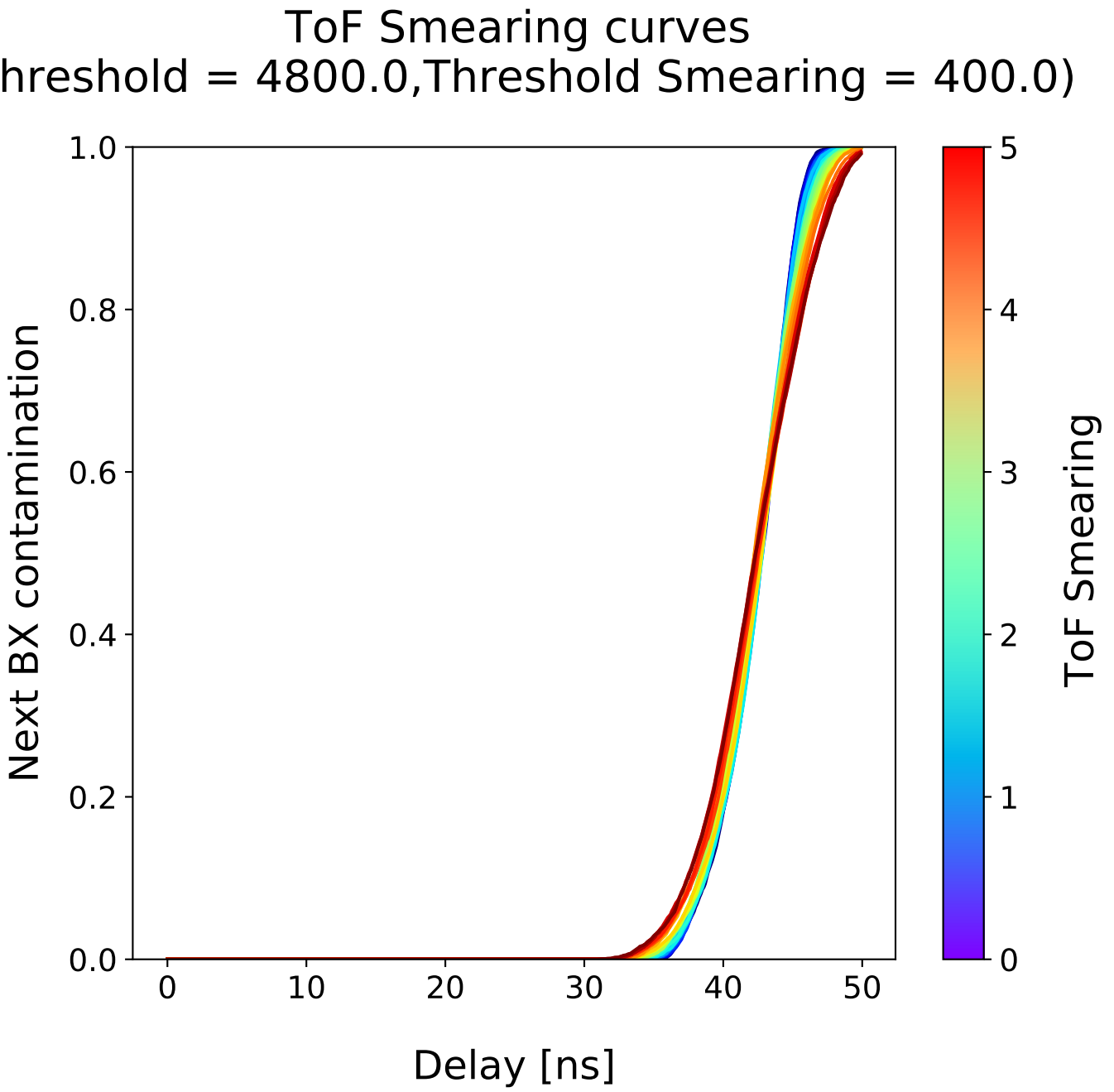

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

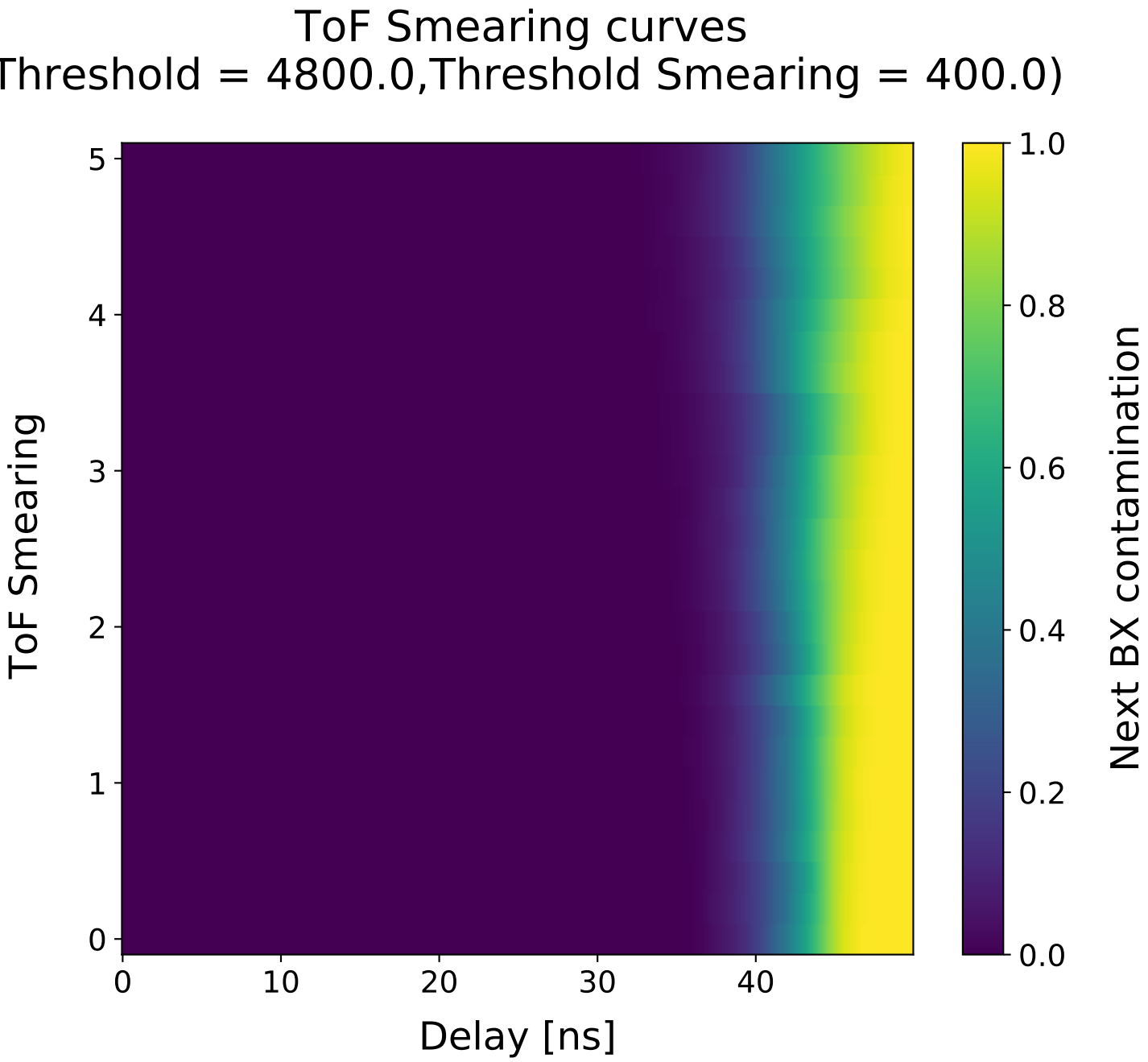

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

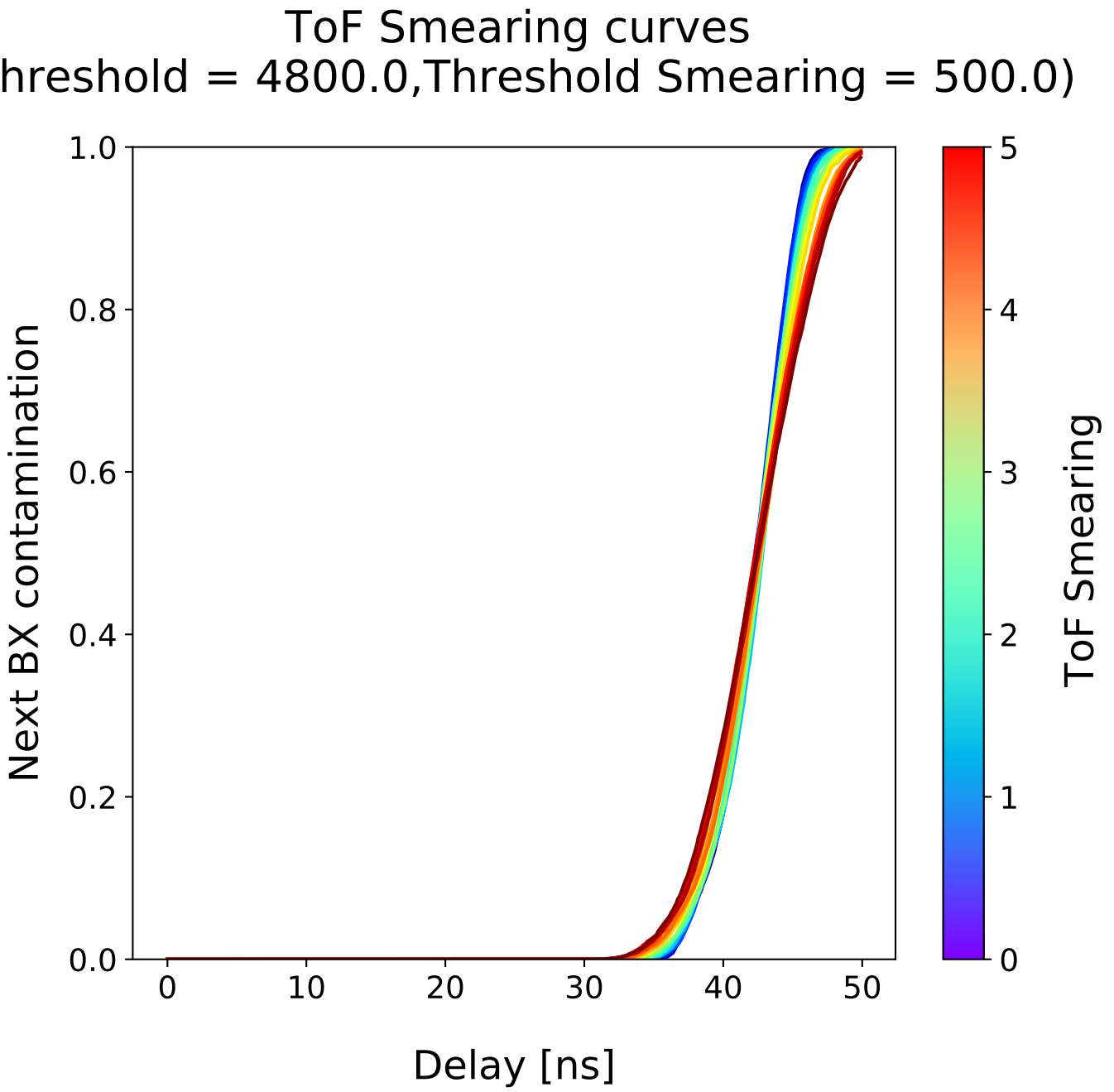

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

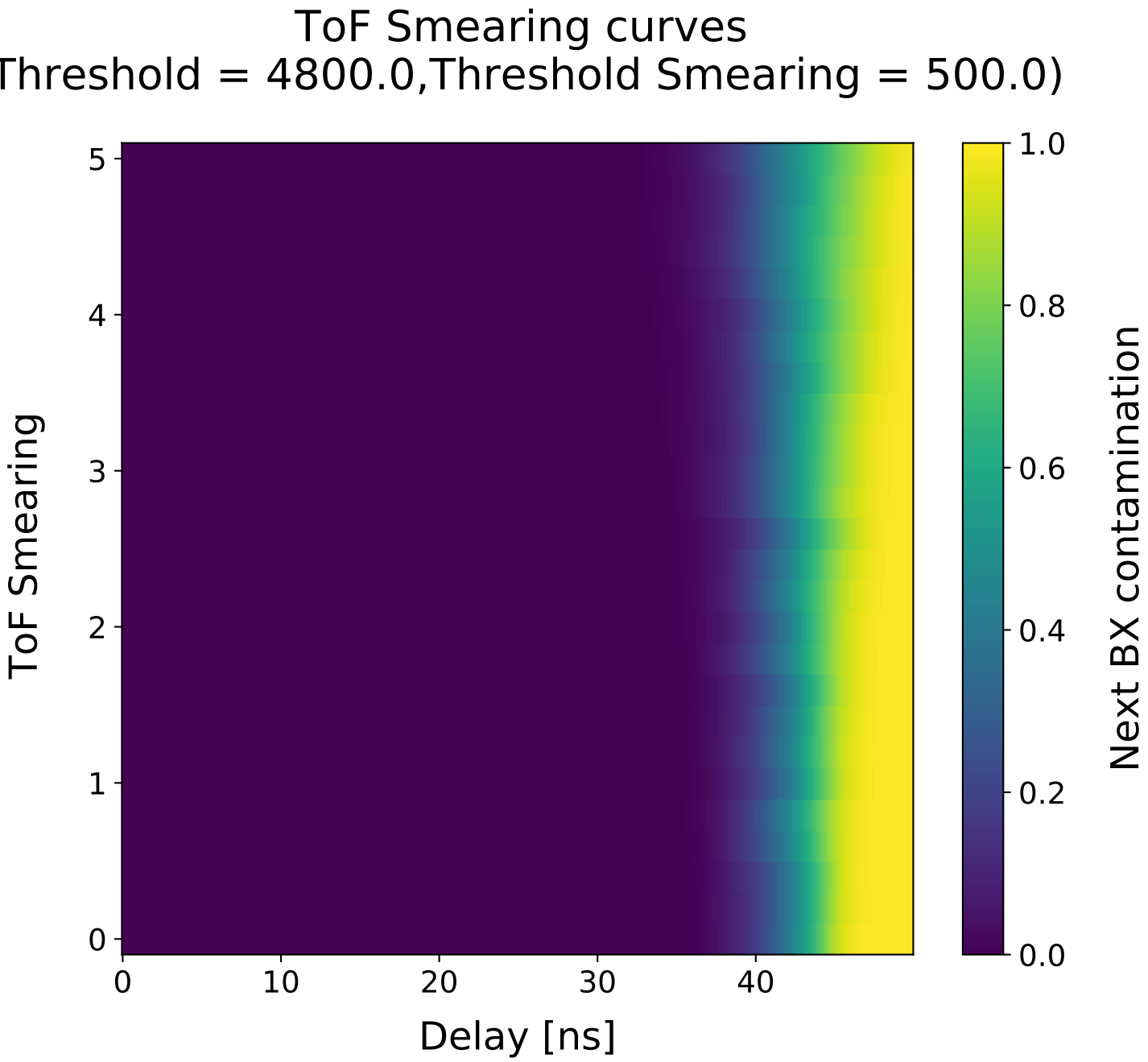

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

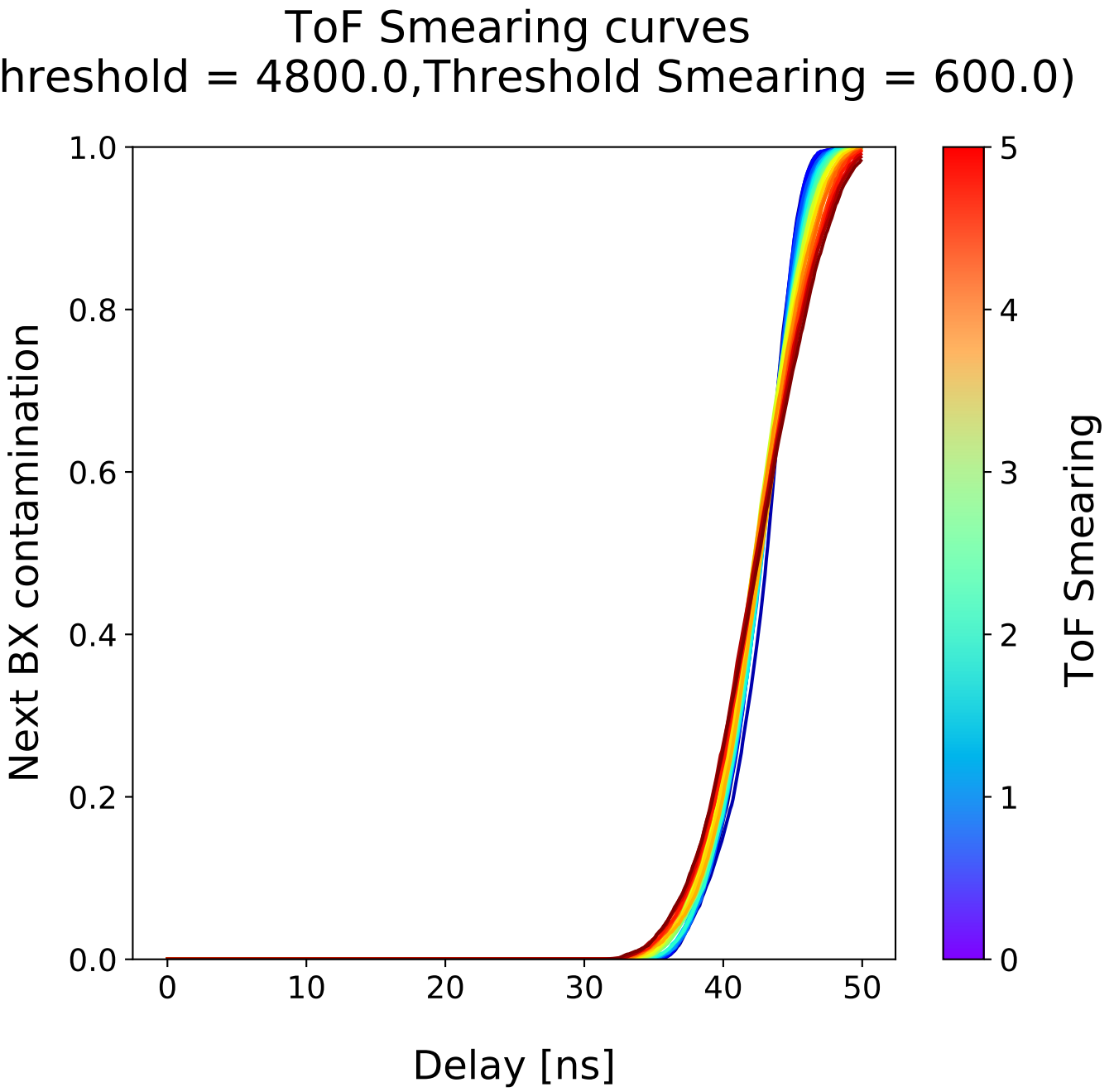

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

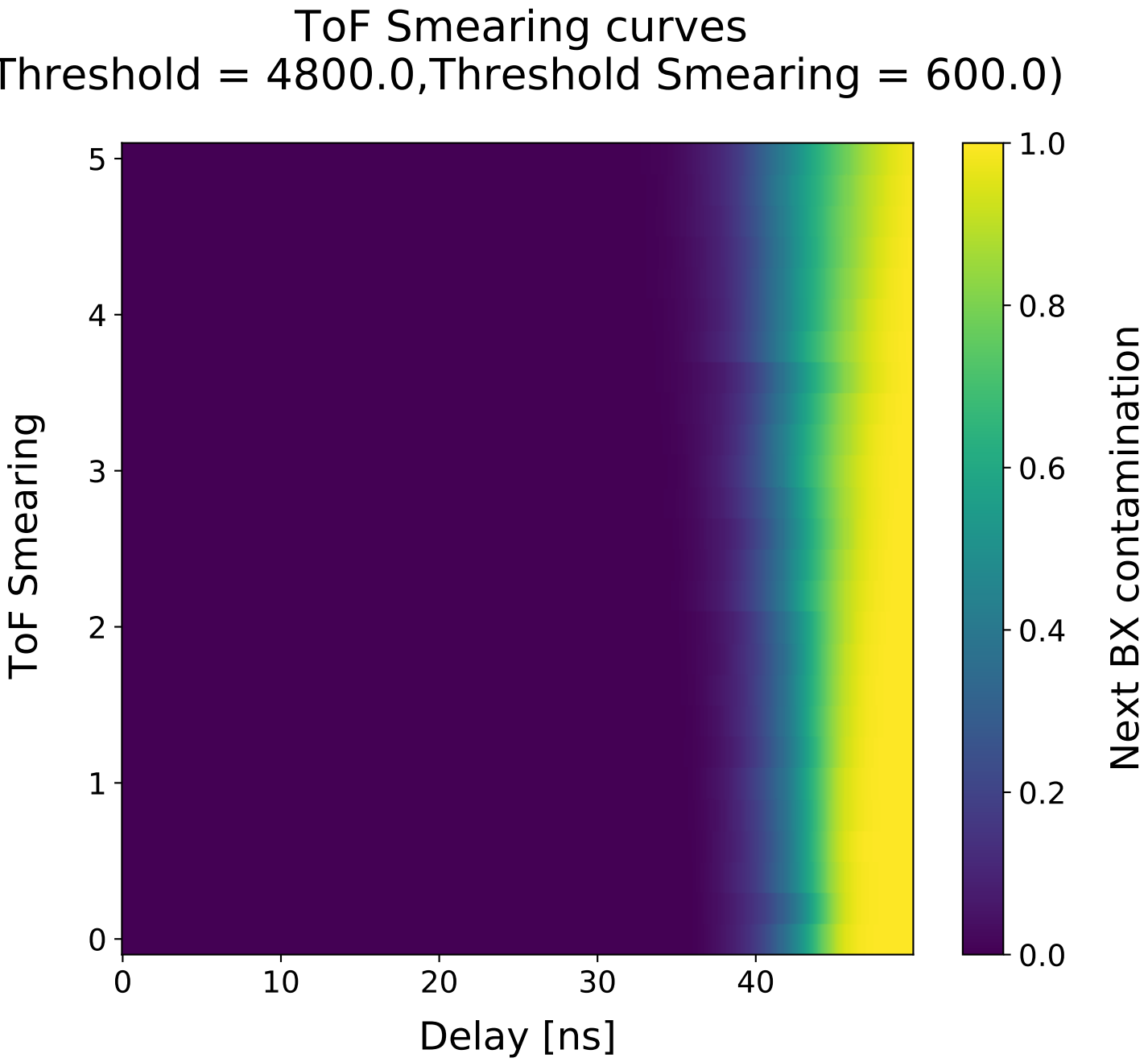

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

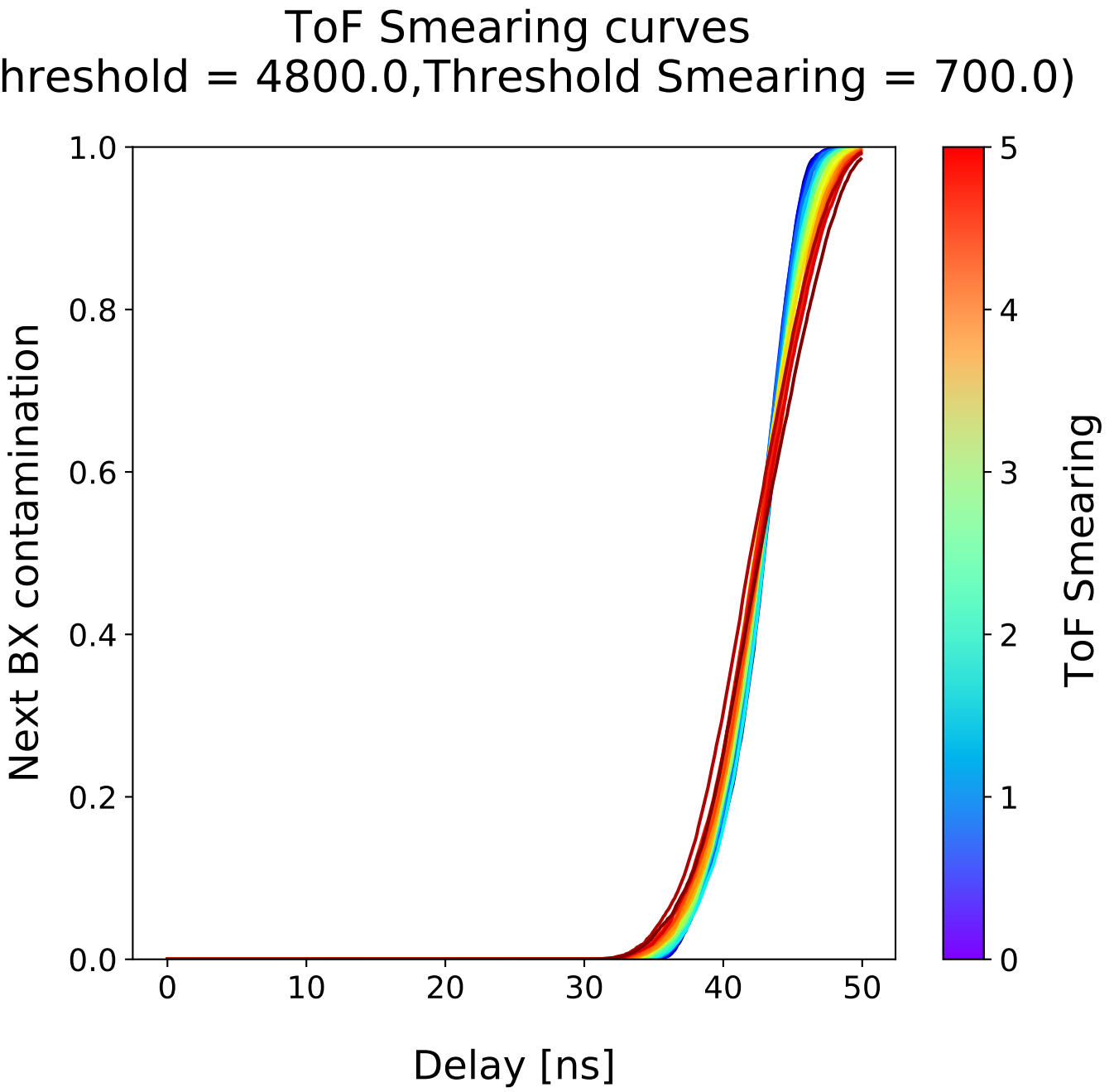

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

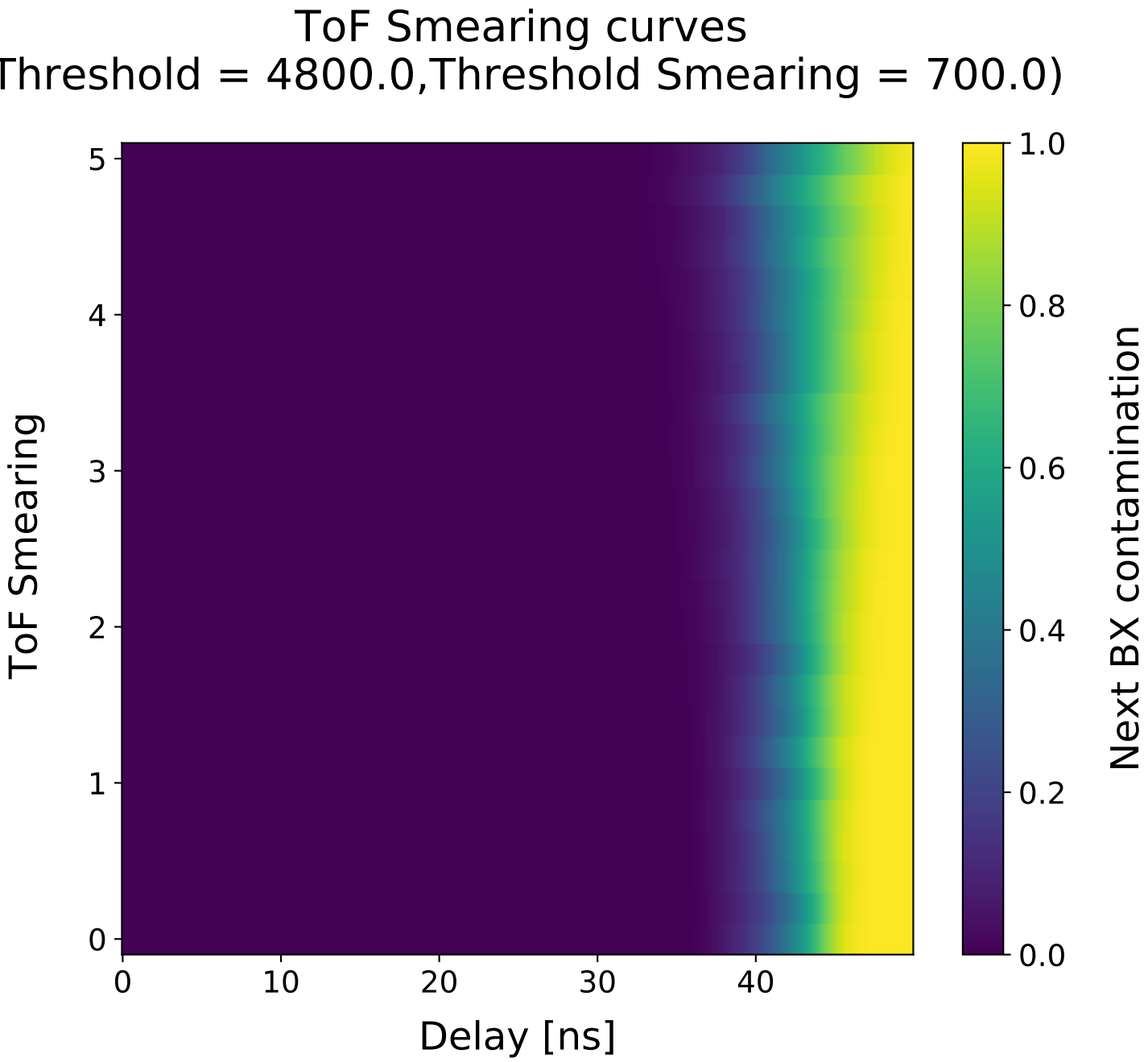

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

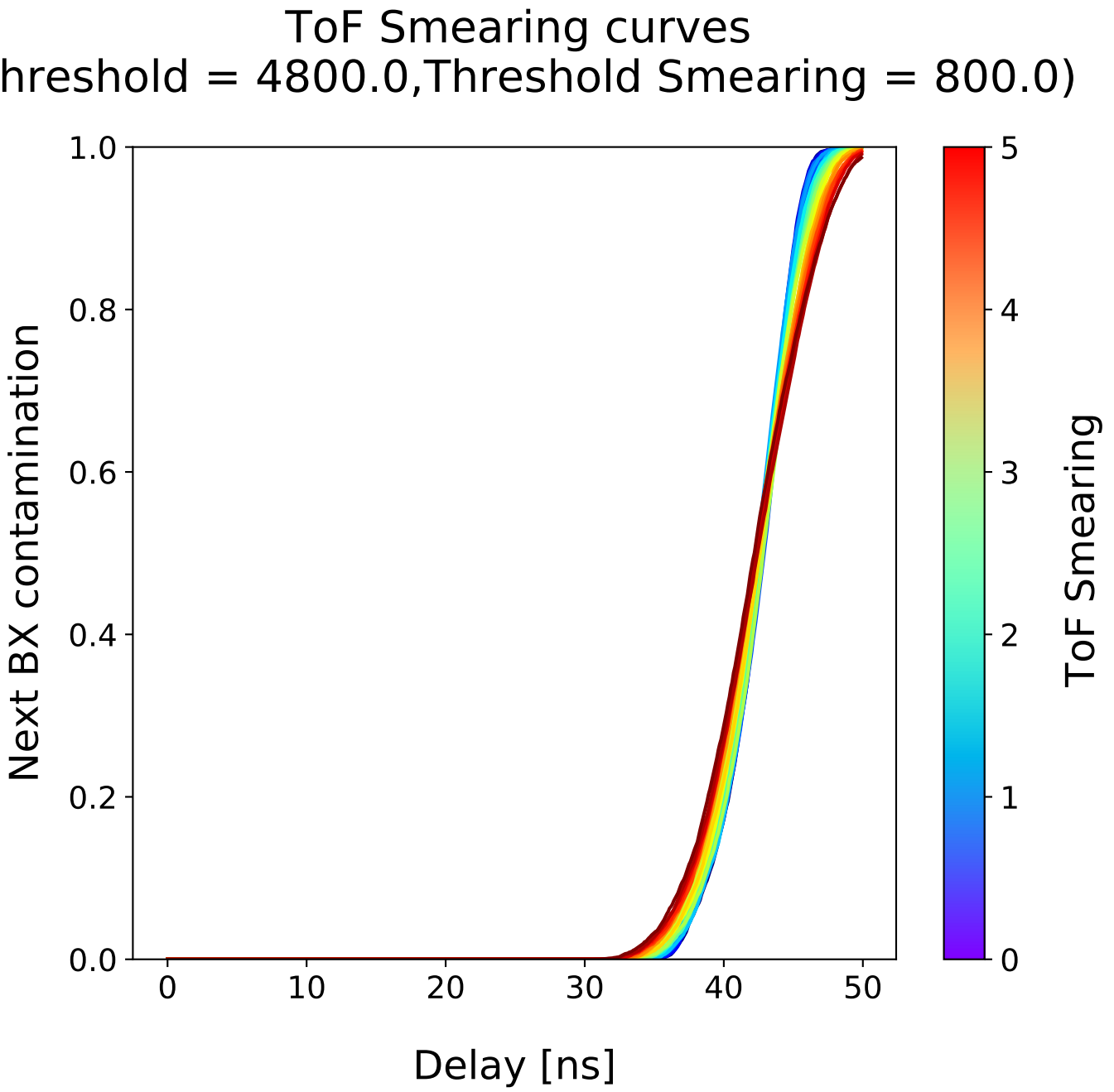

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

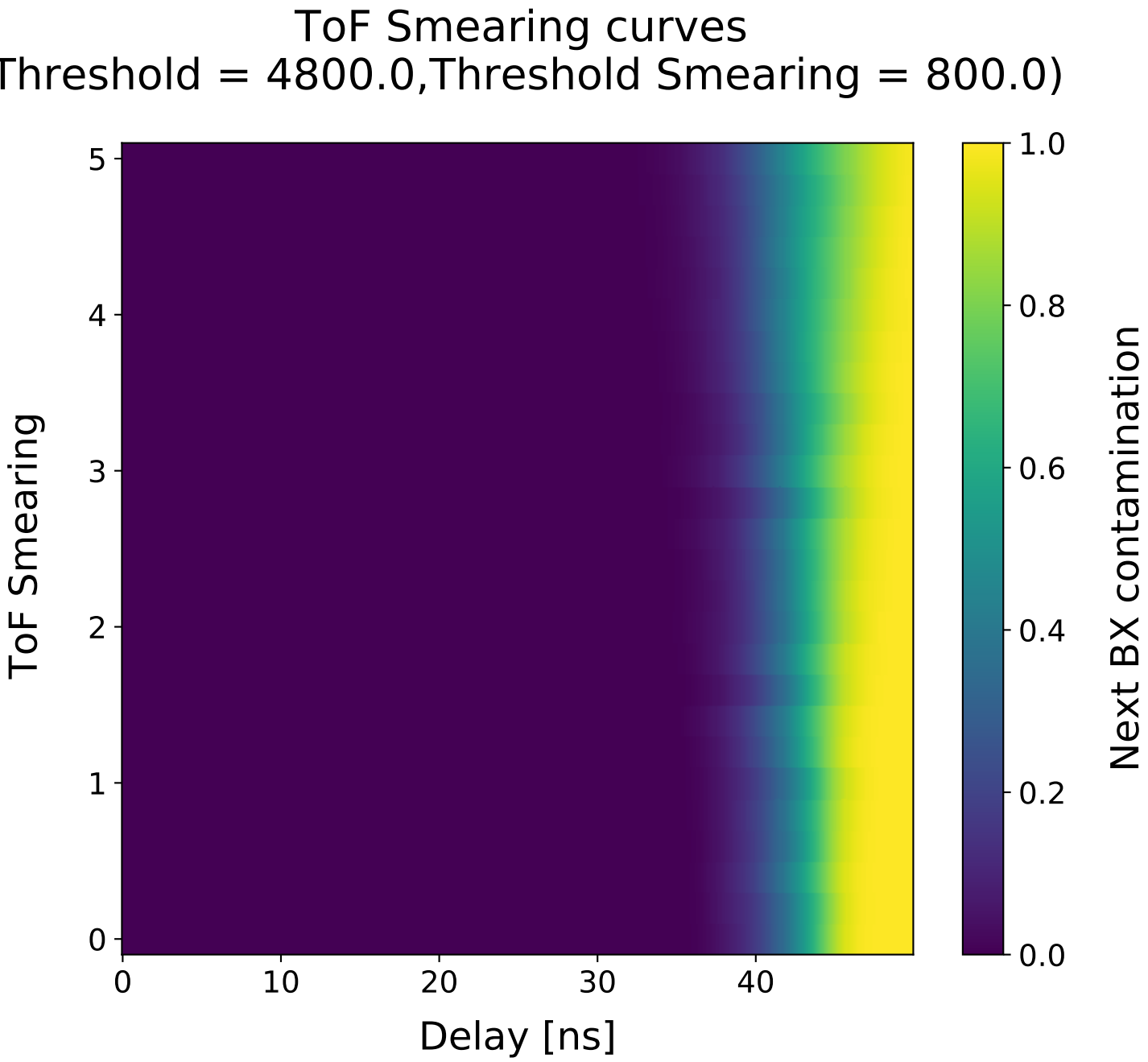

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

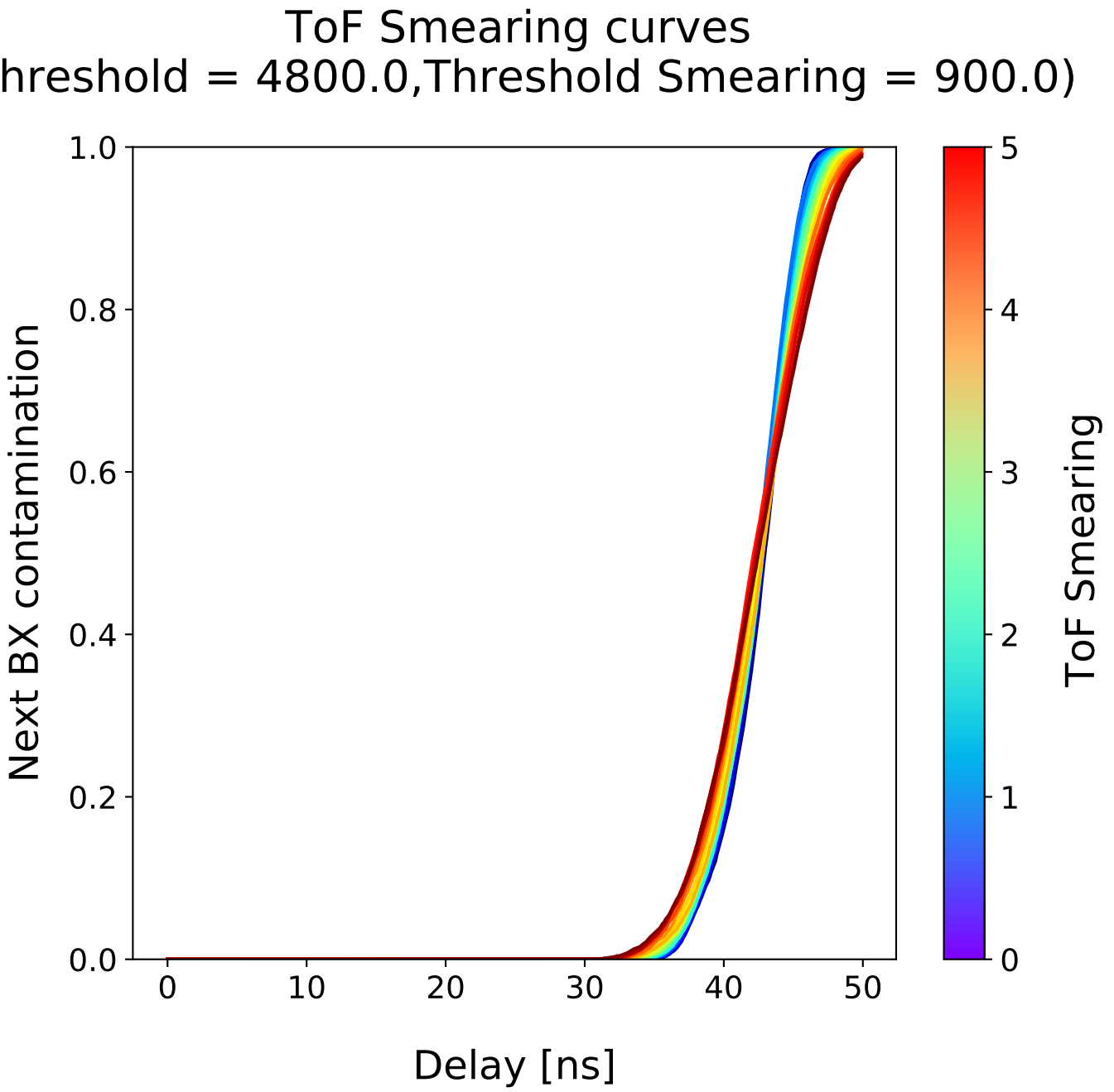

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

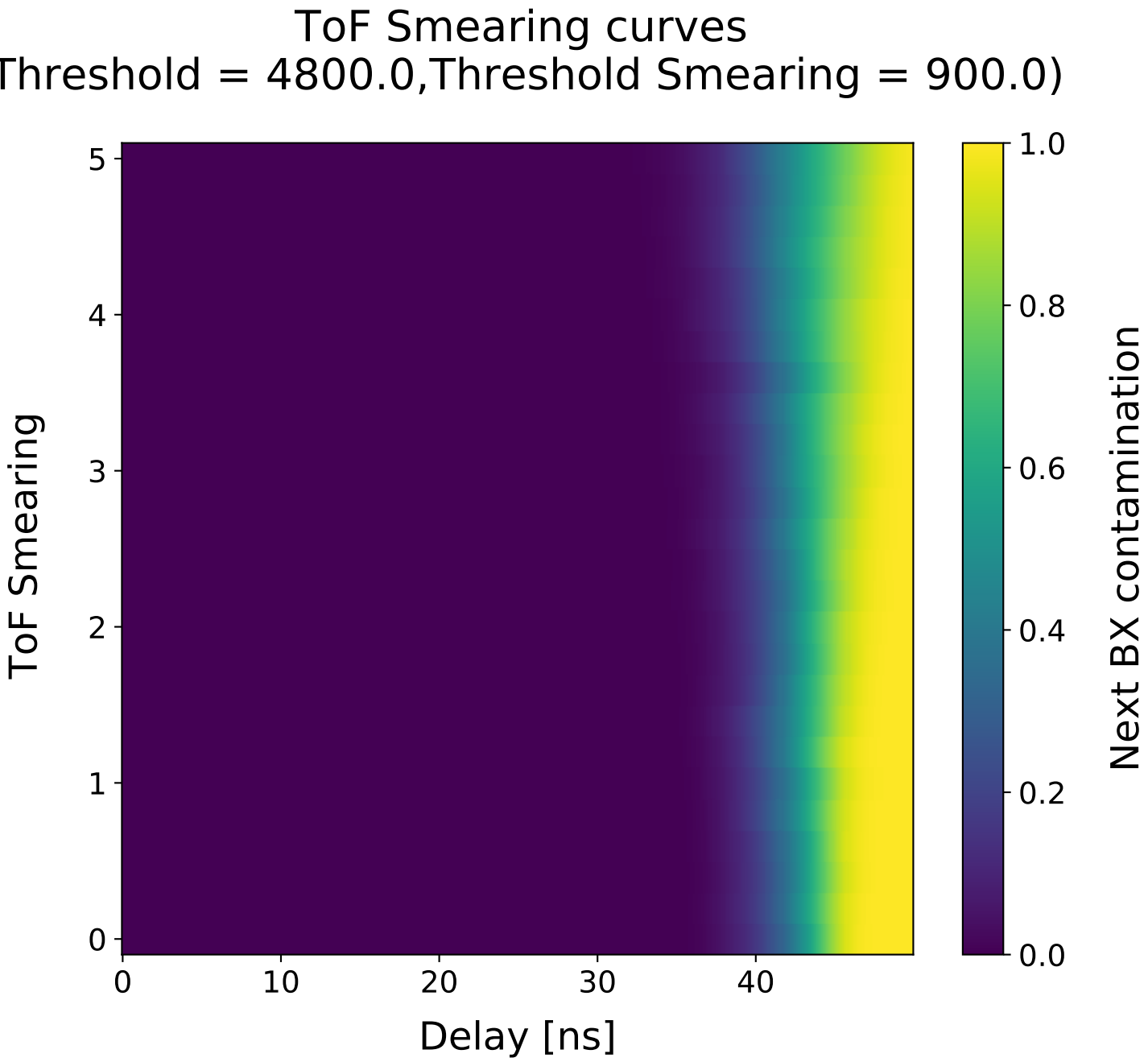

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

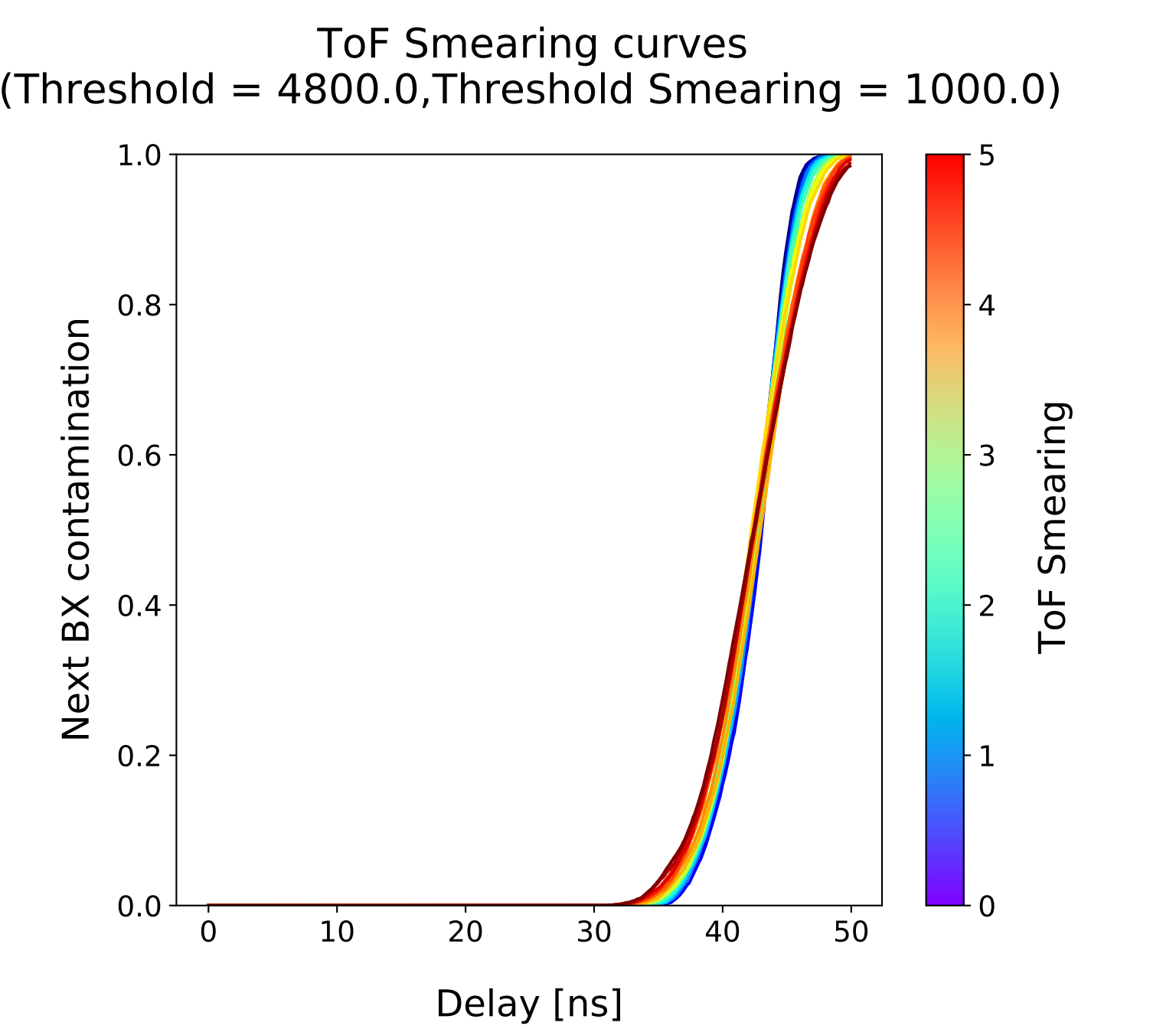

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

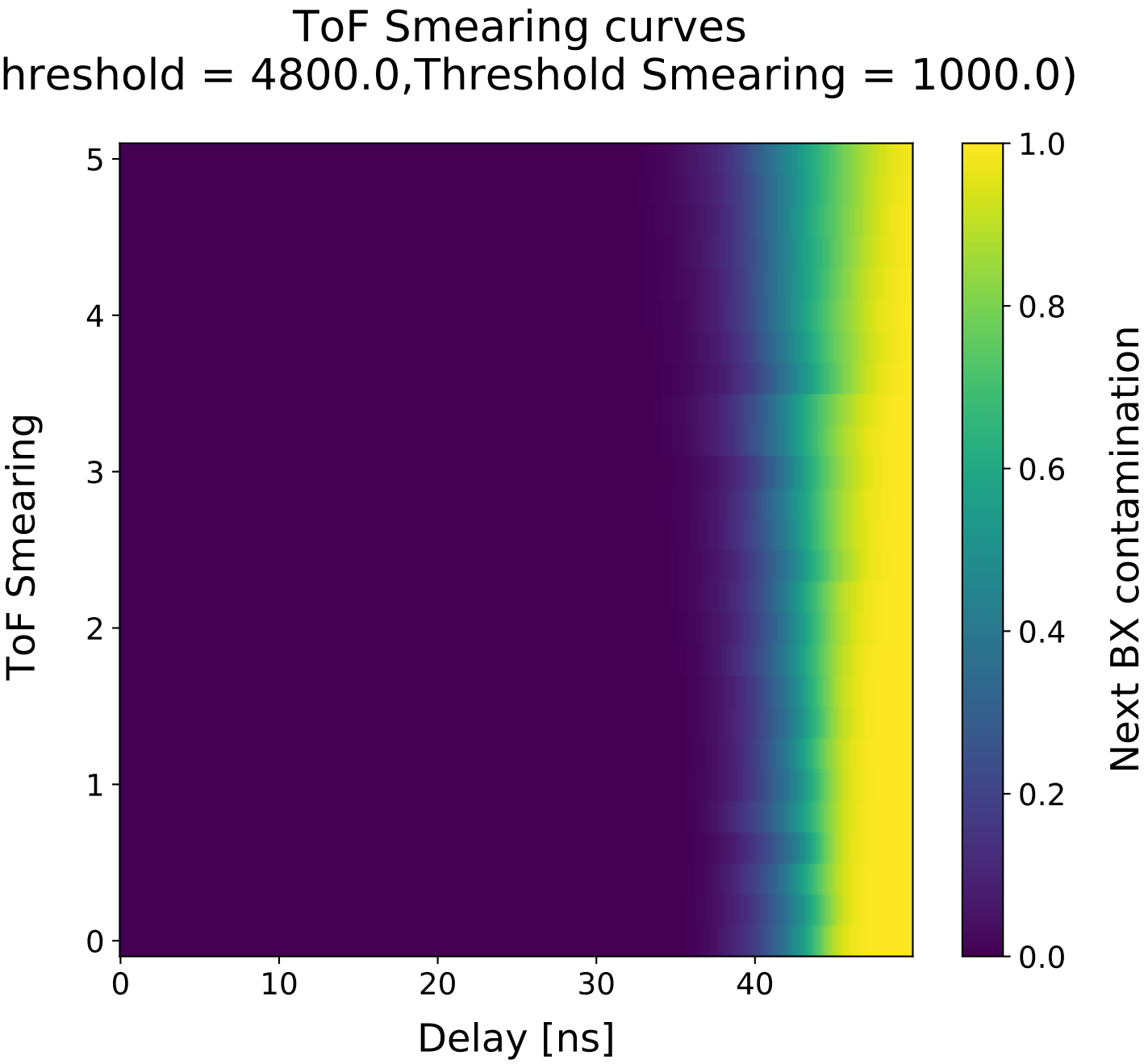

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

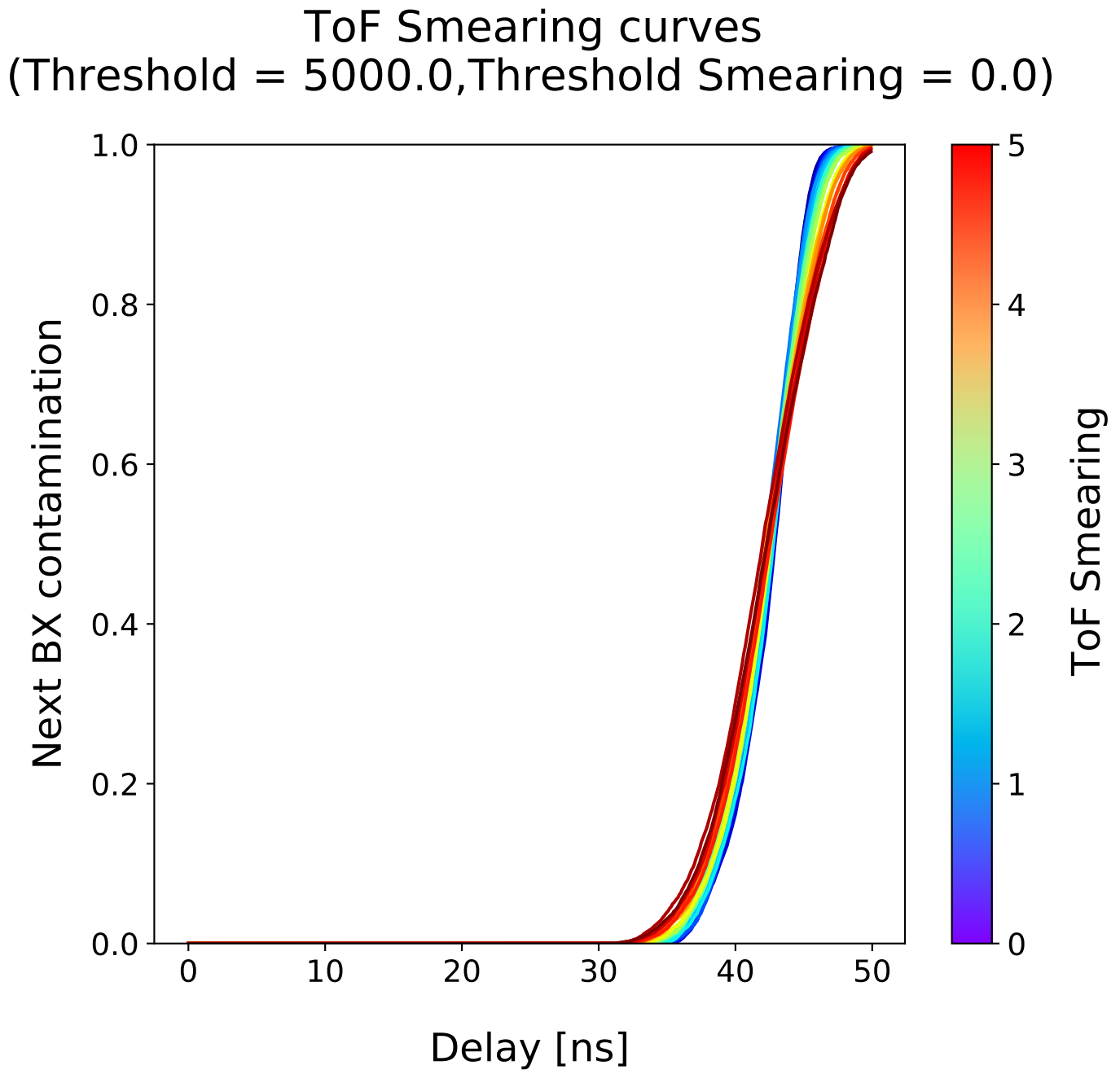

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

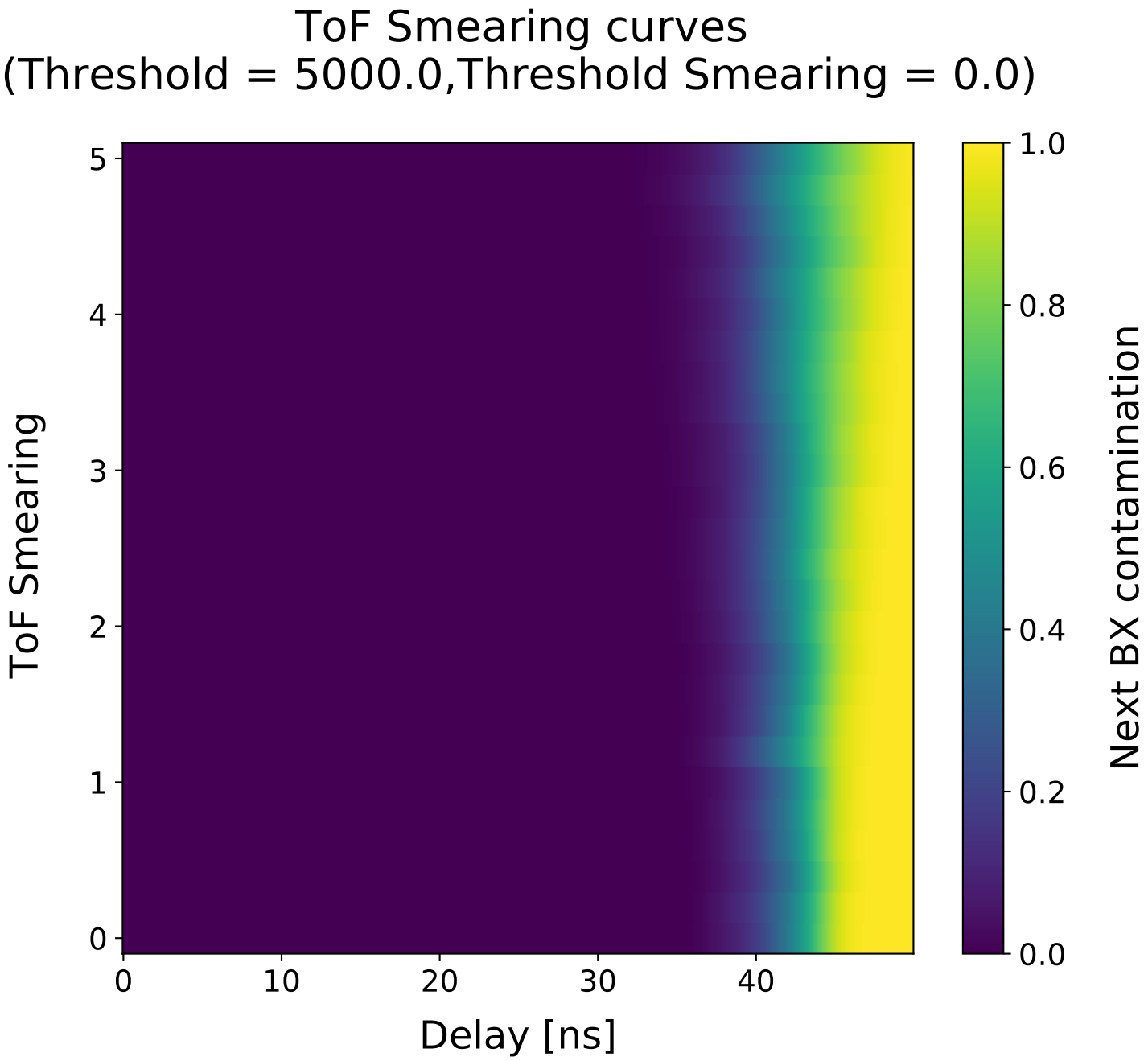

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

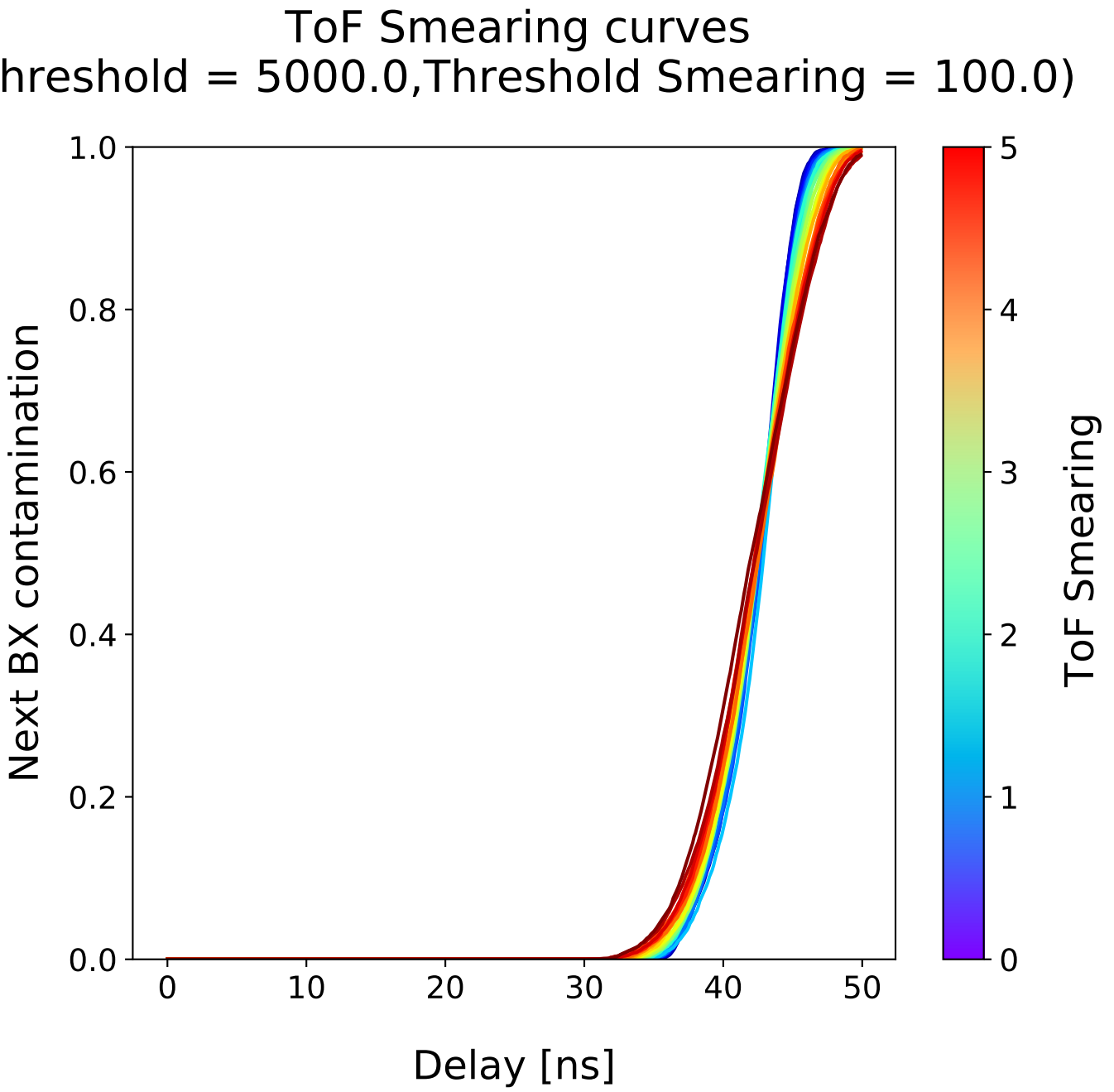

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

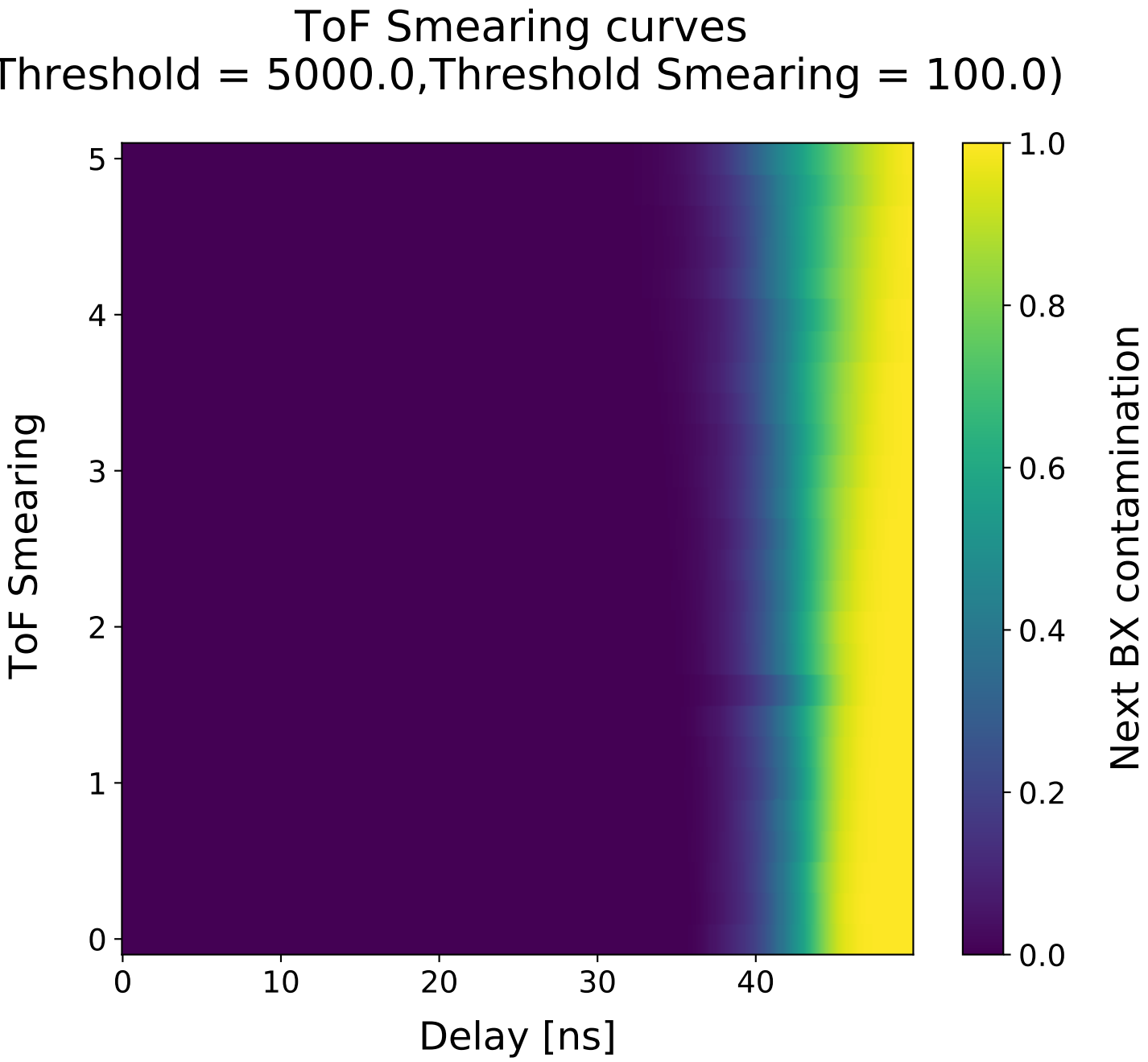

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
5
4
3
2
1
0

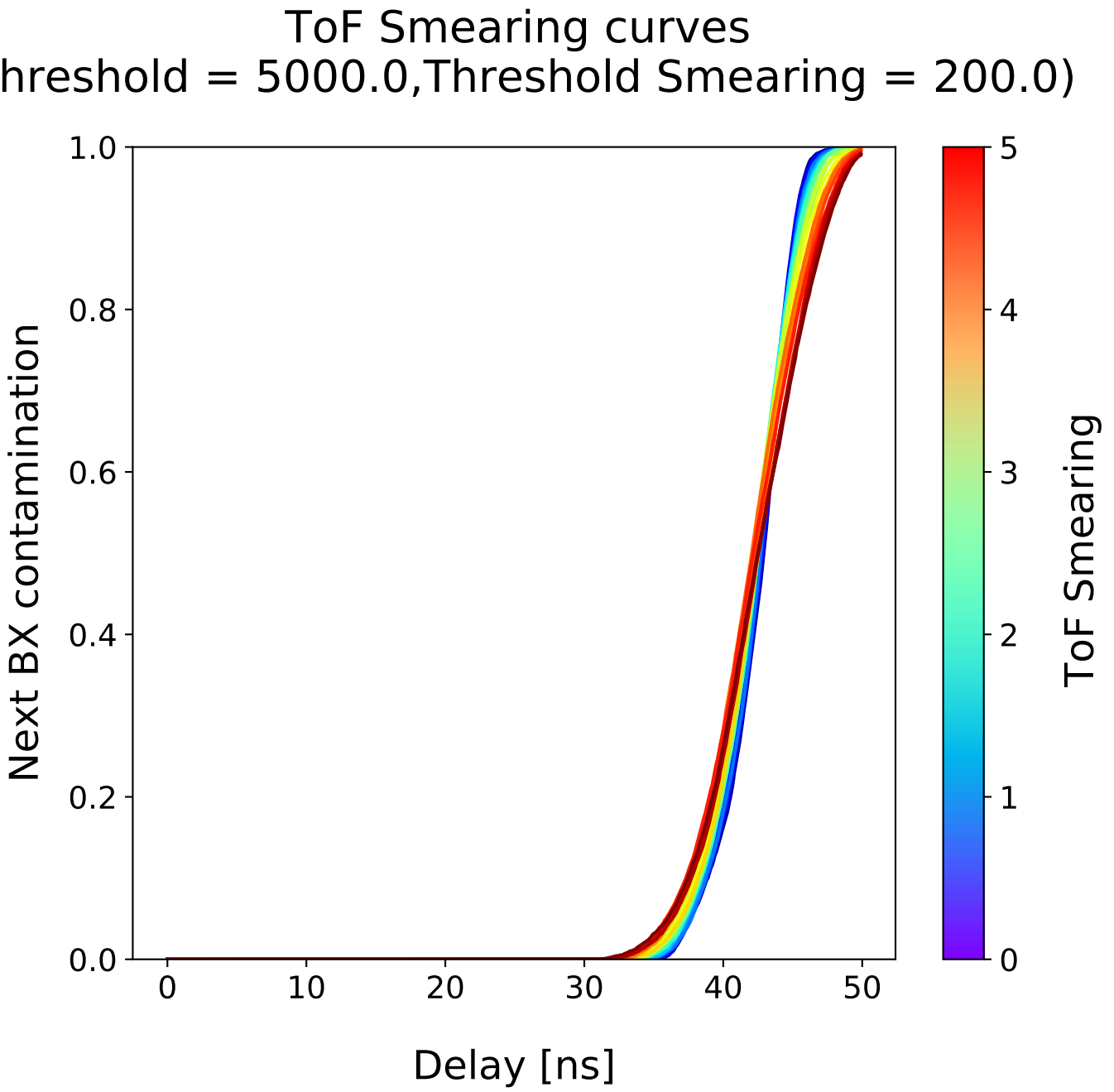

ToF Smearing curves
(Threshold = 4800.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

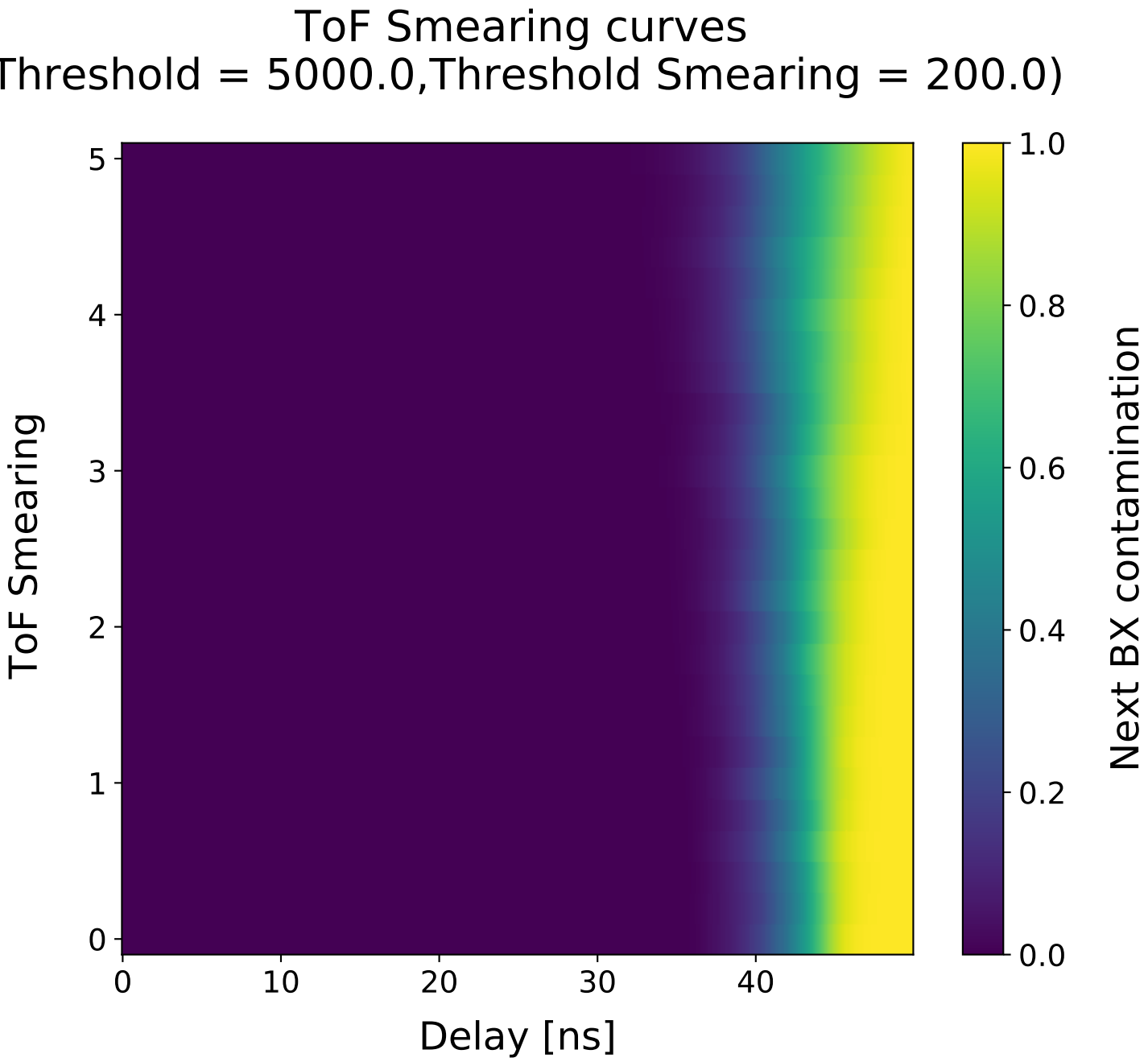

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
5
4
3
2
1
0

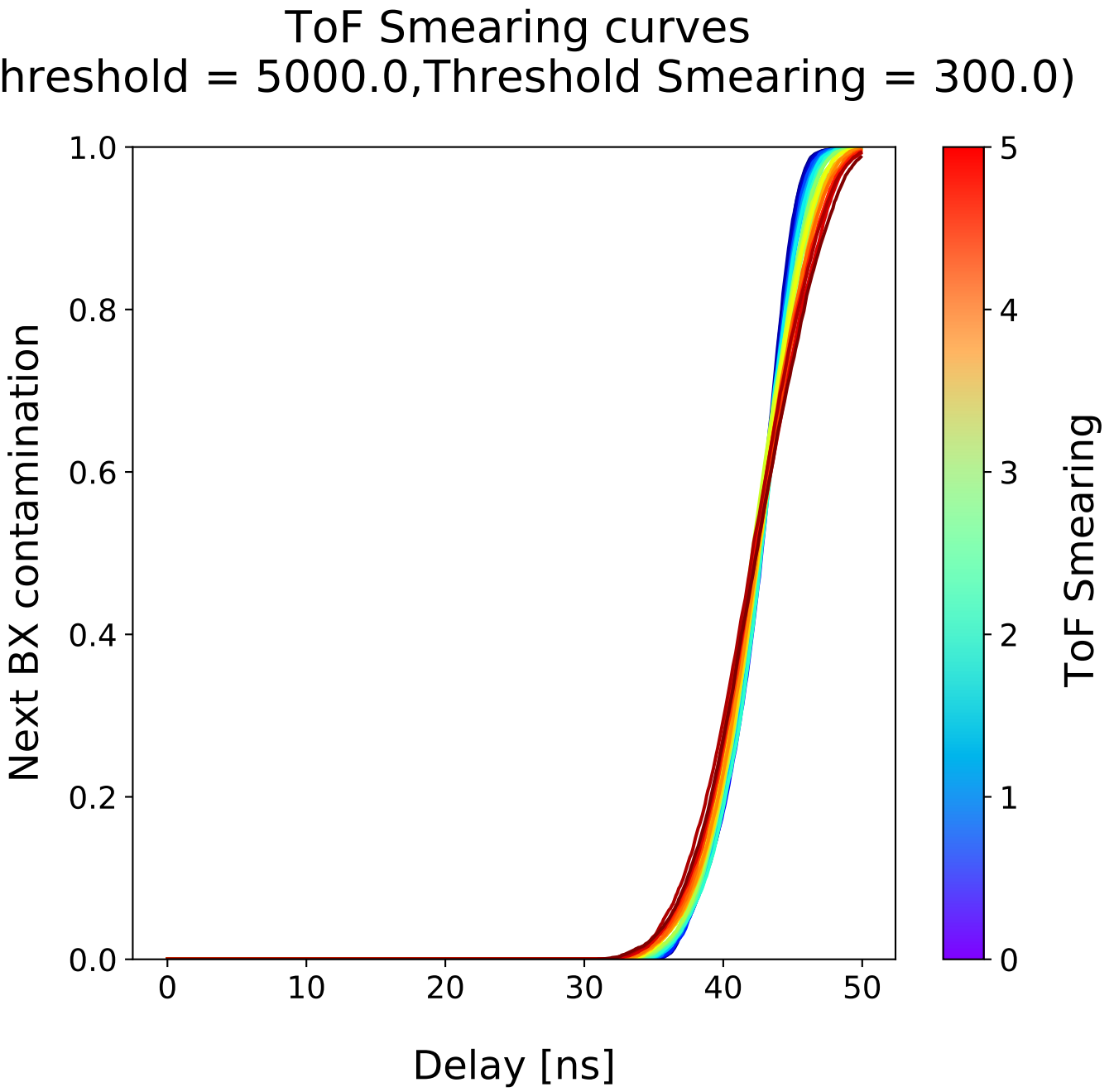

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

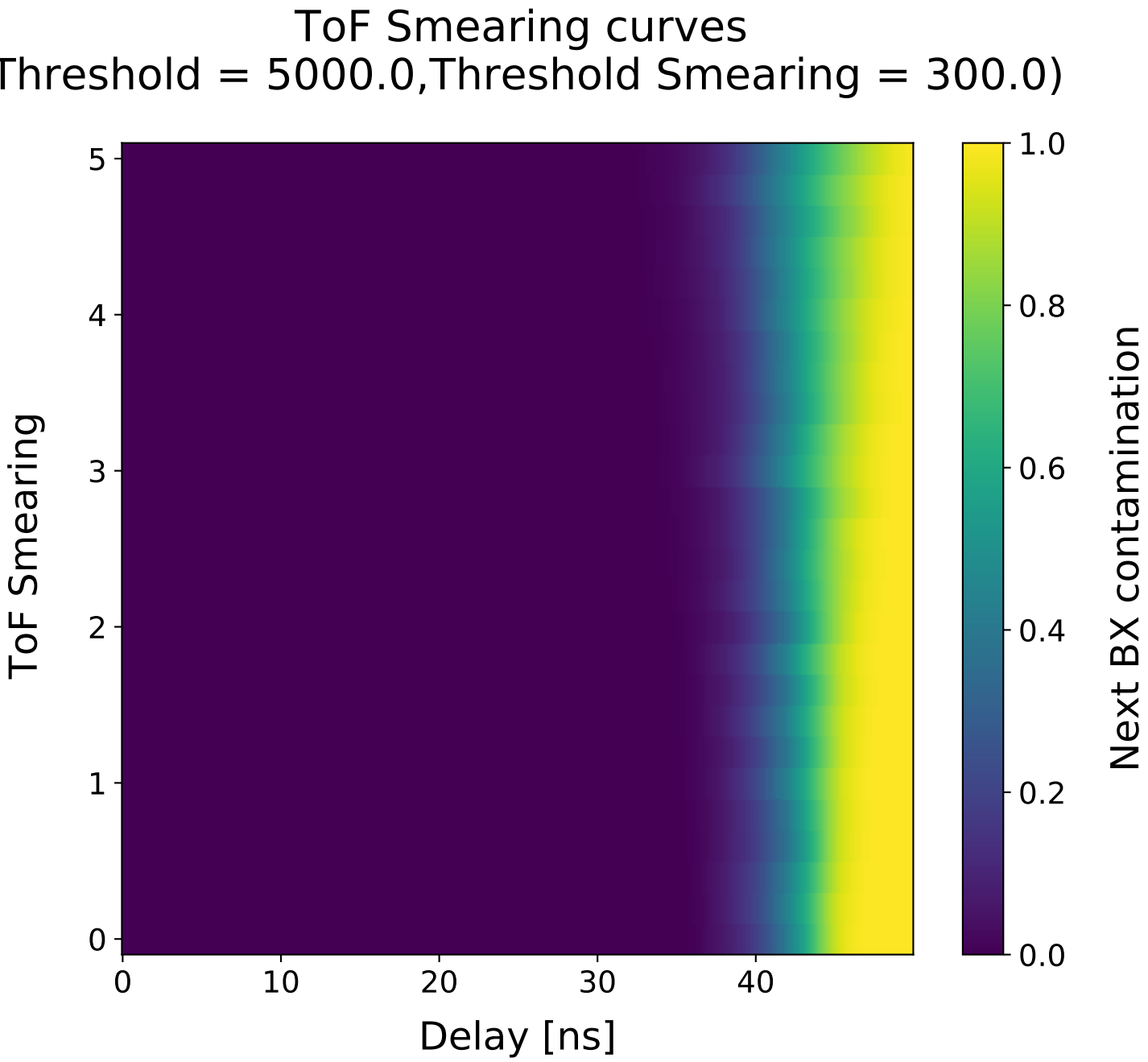

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

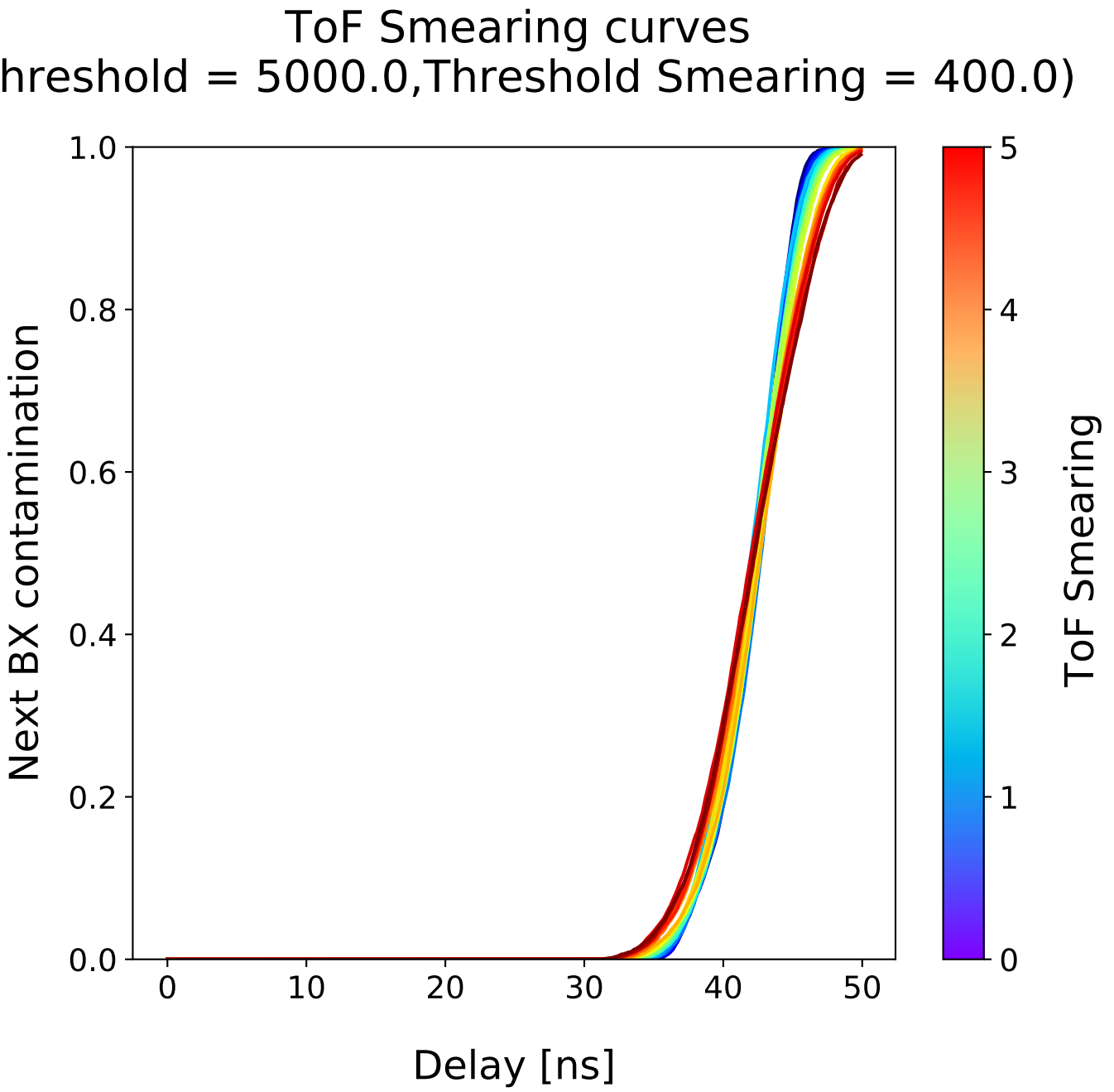

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

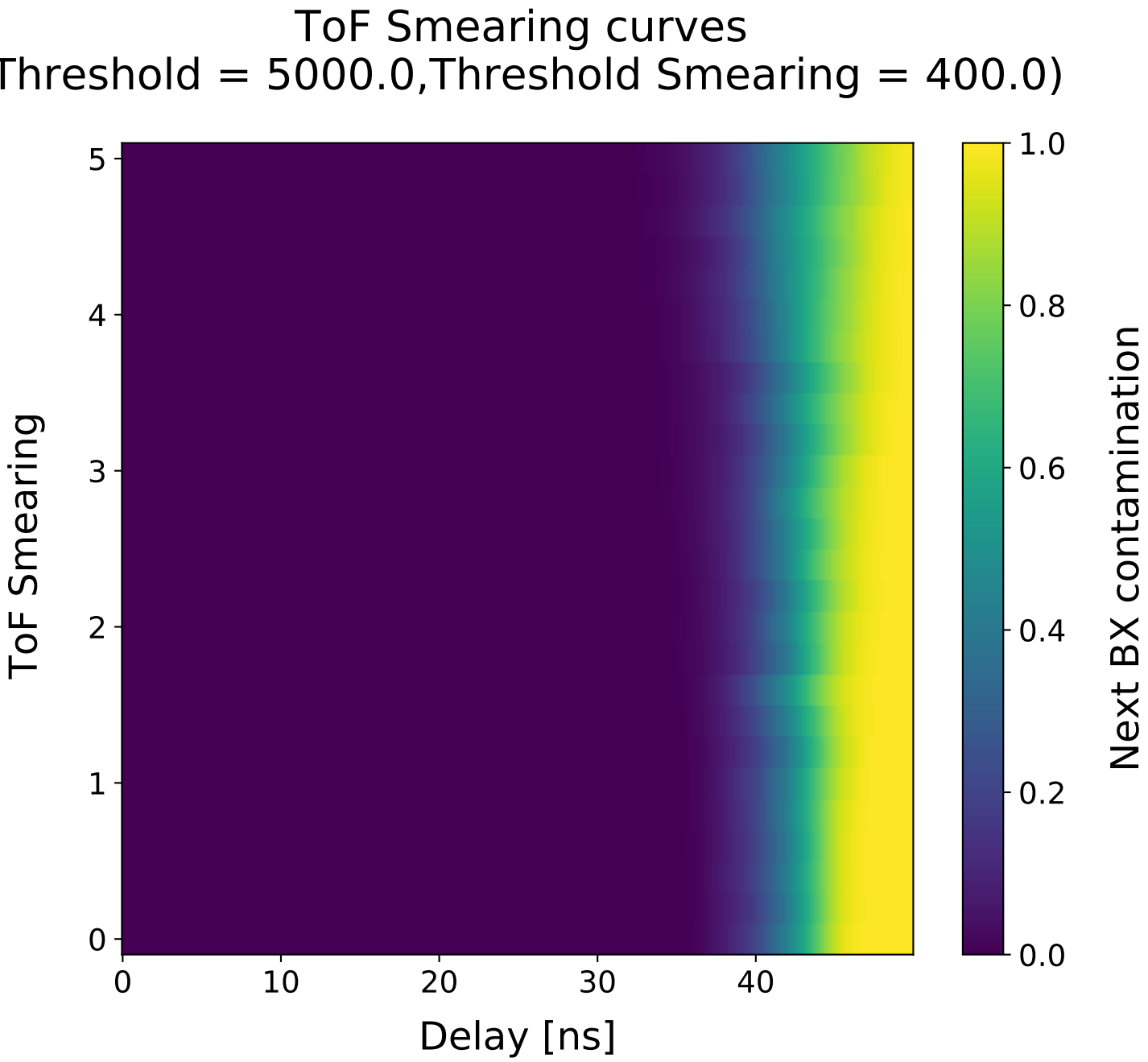

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

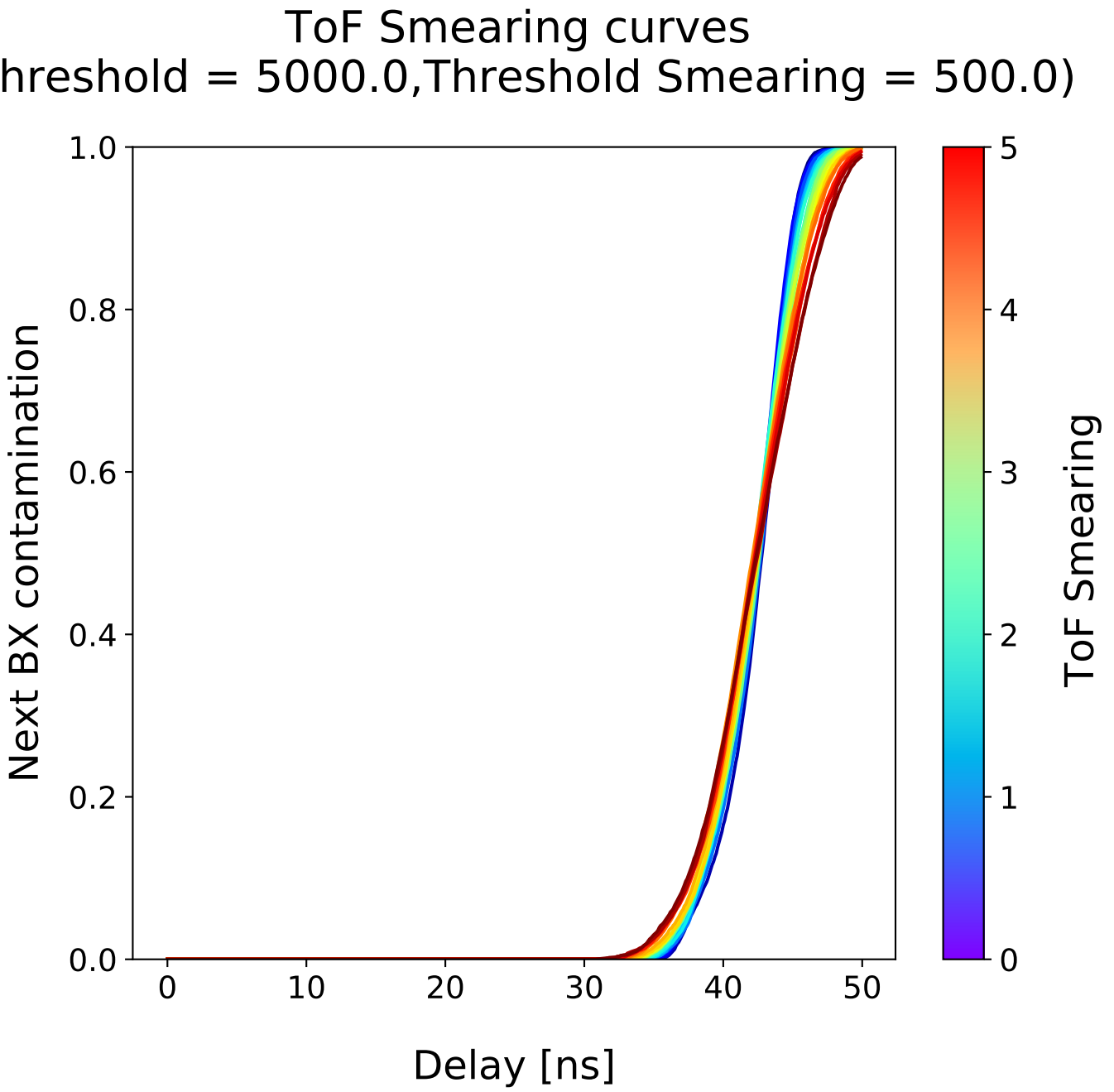

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

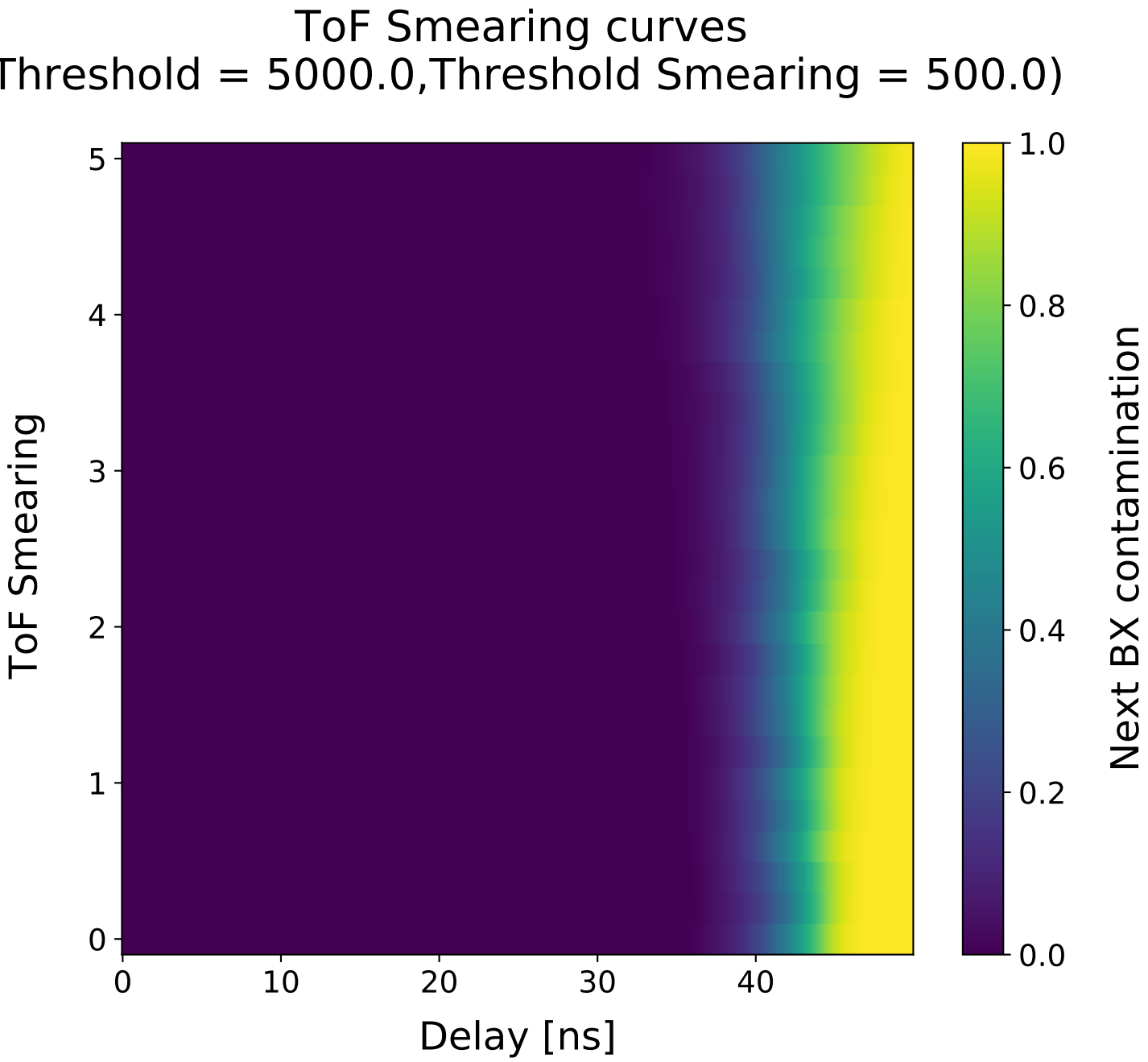

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

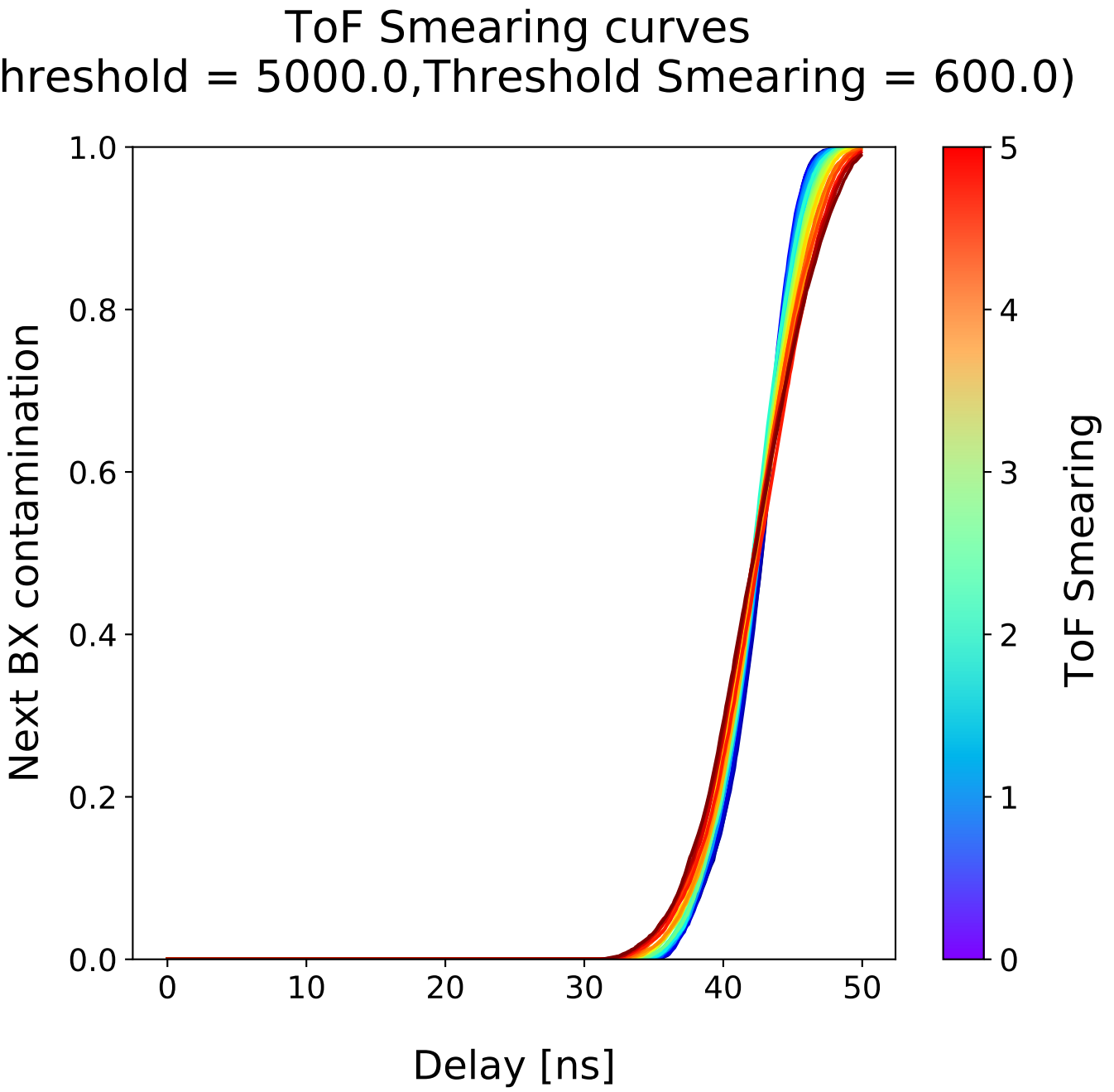

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

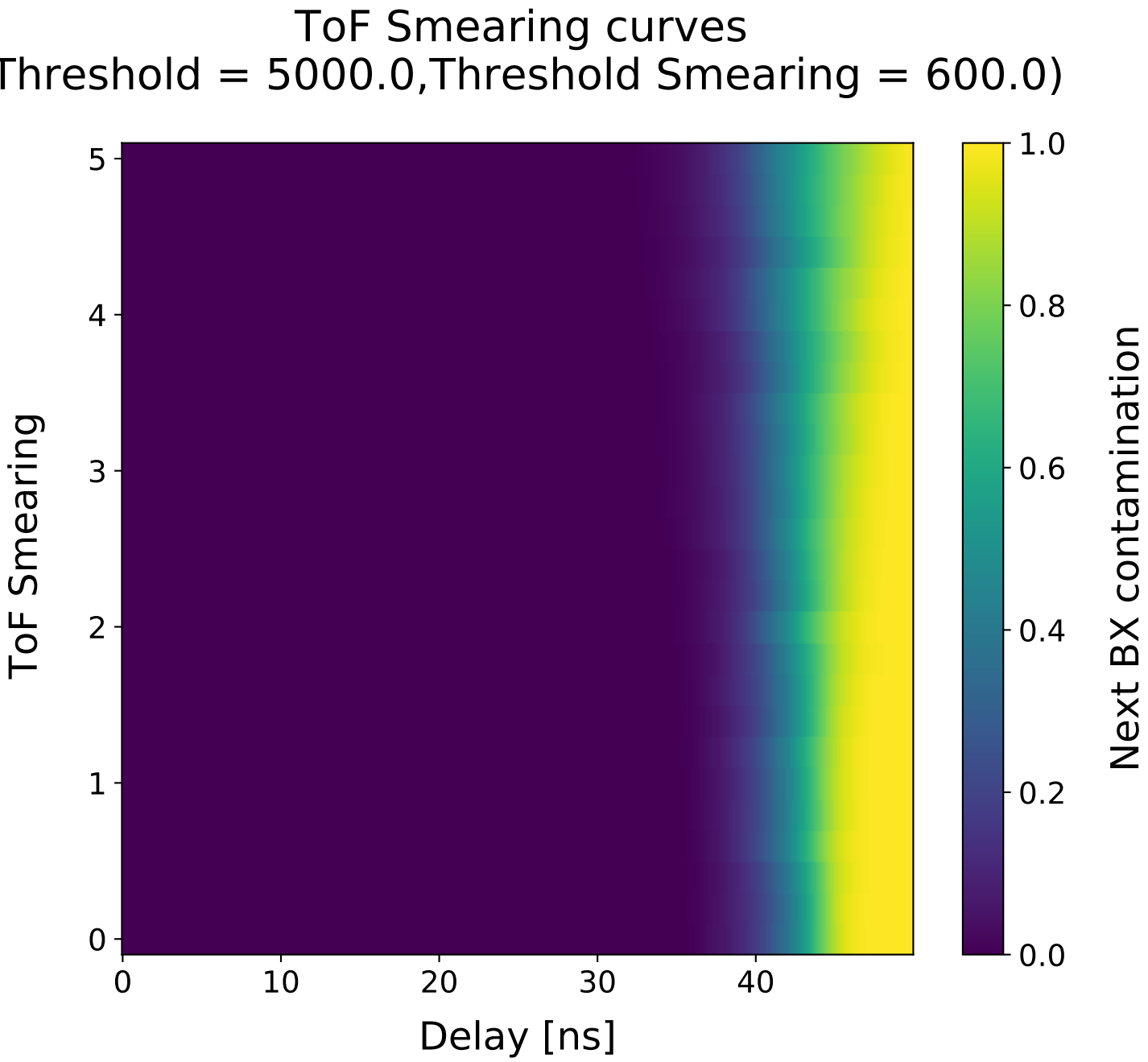

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

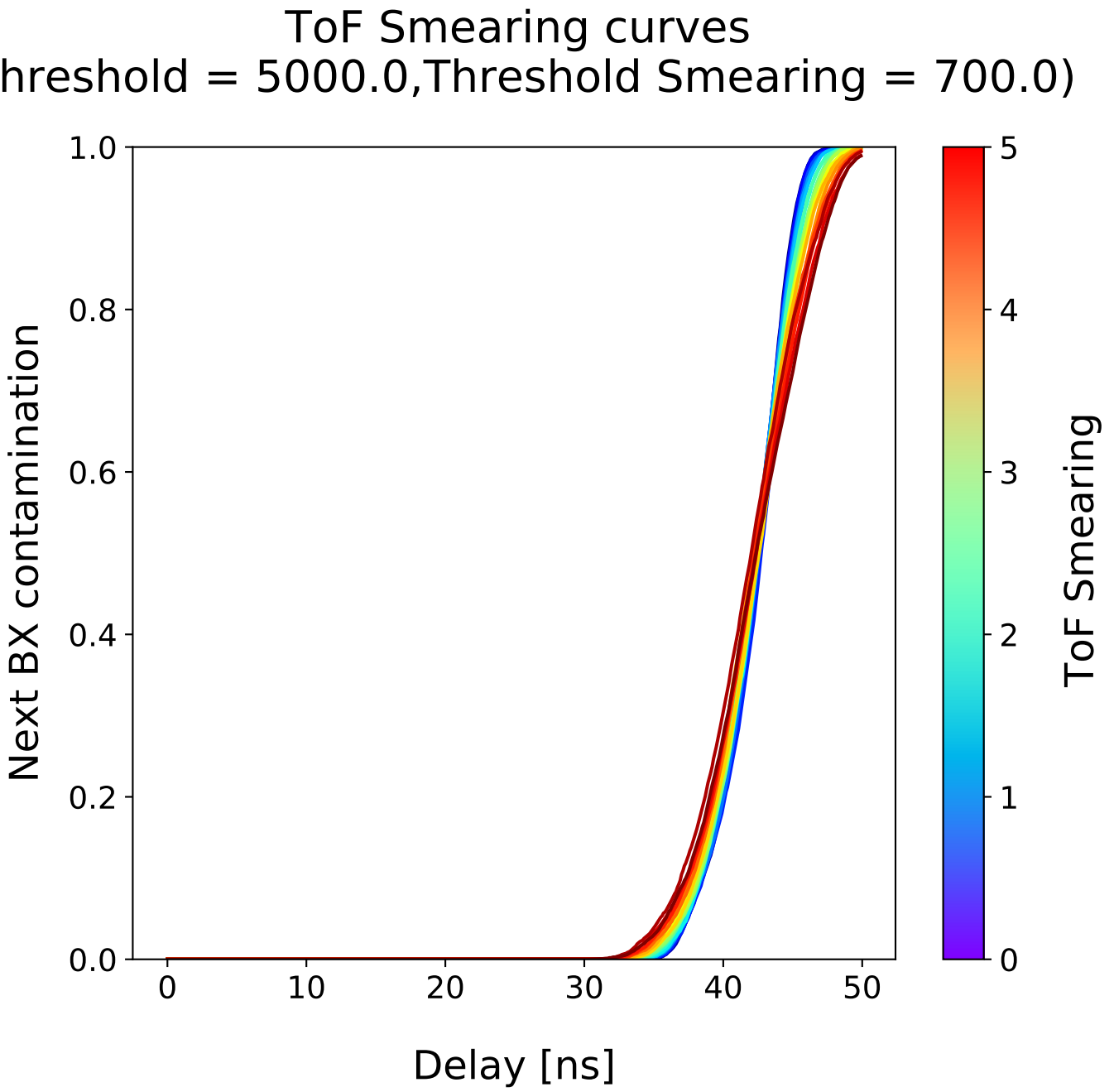

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

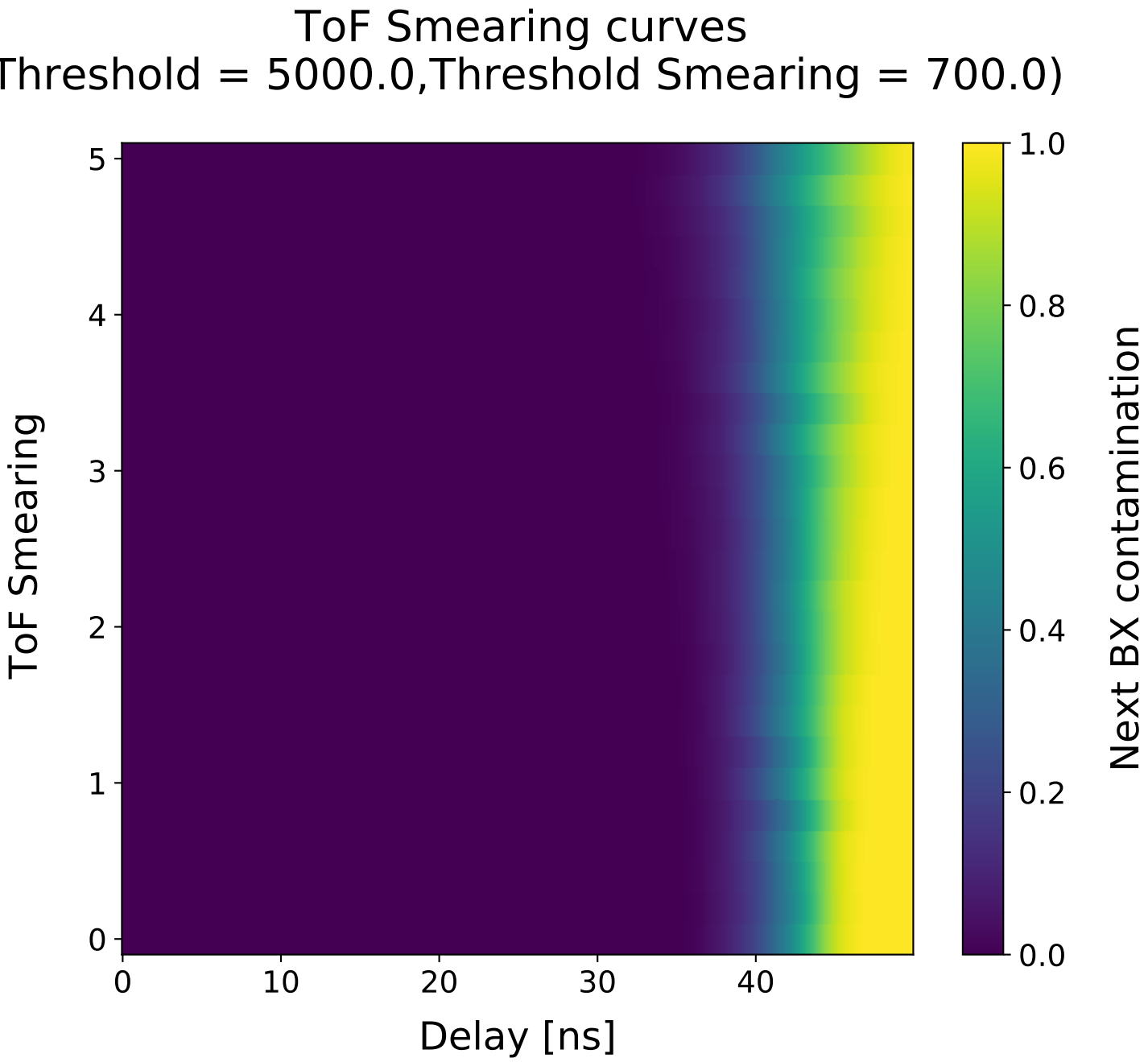

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

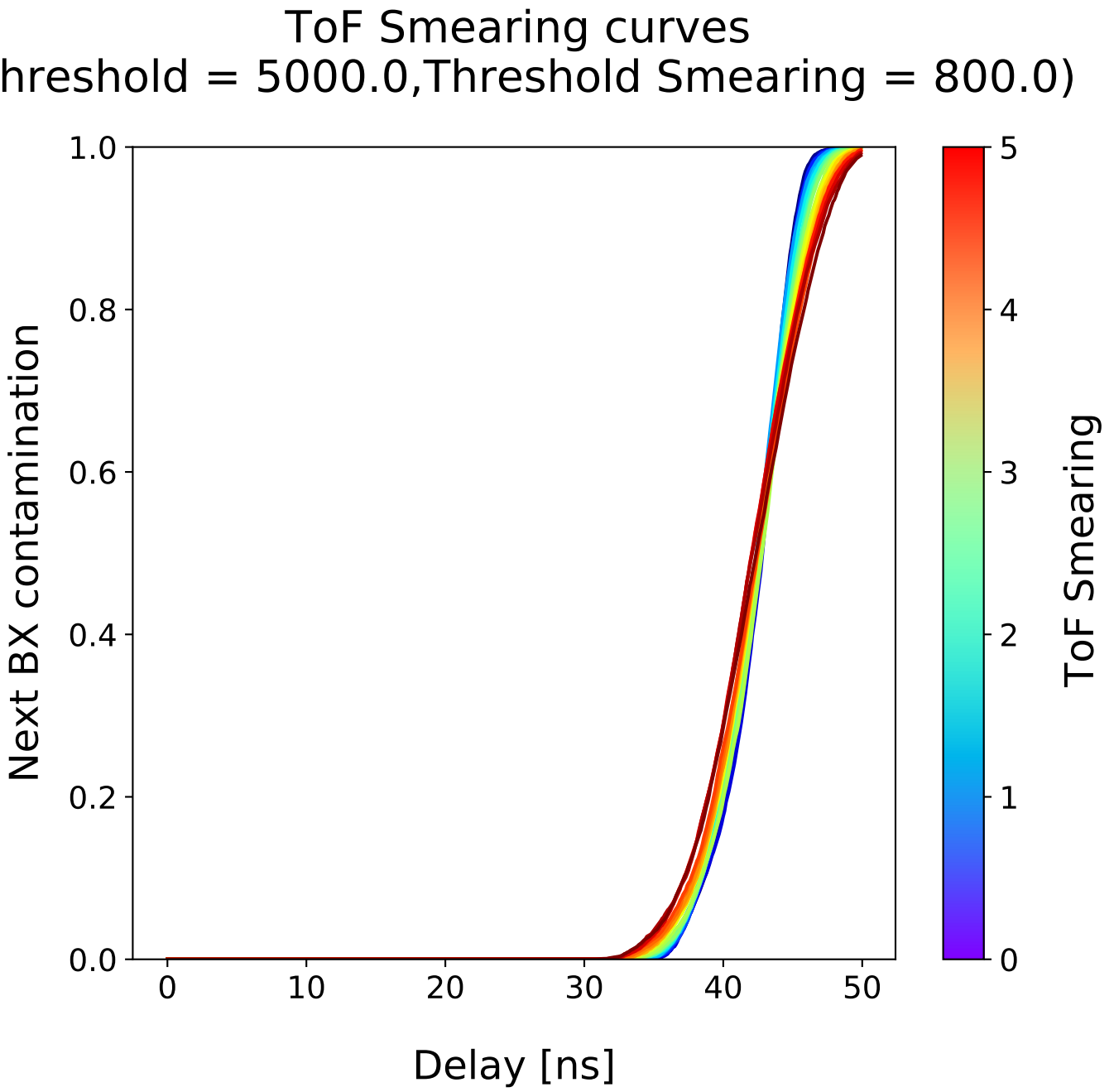

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

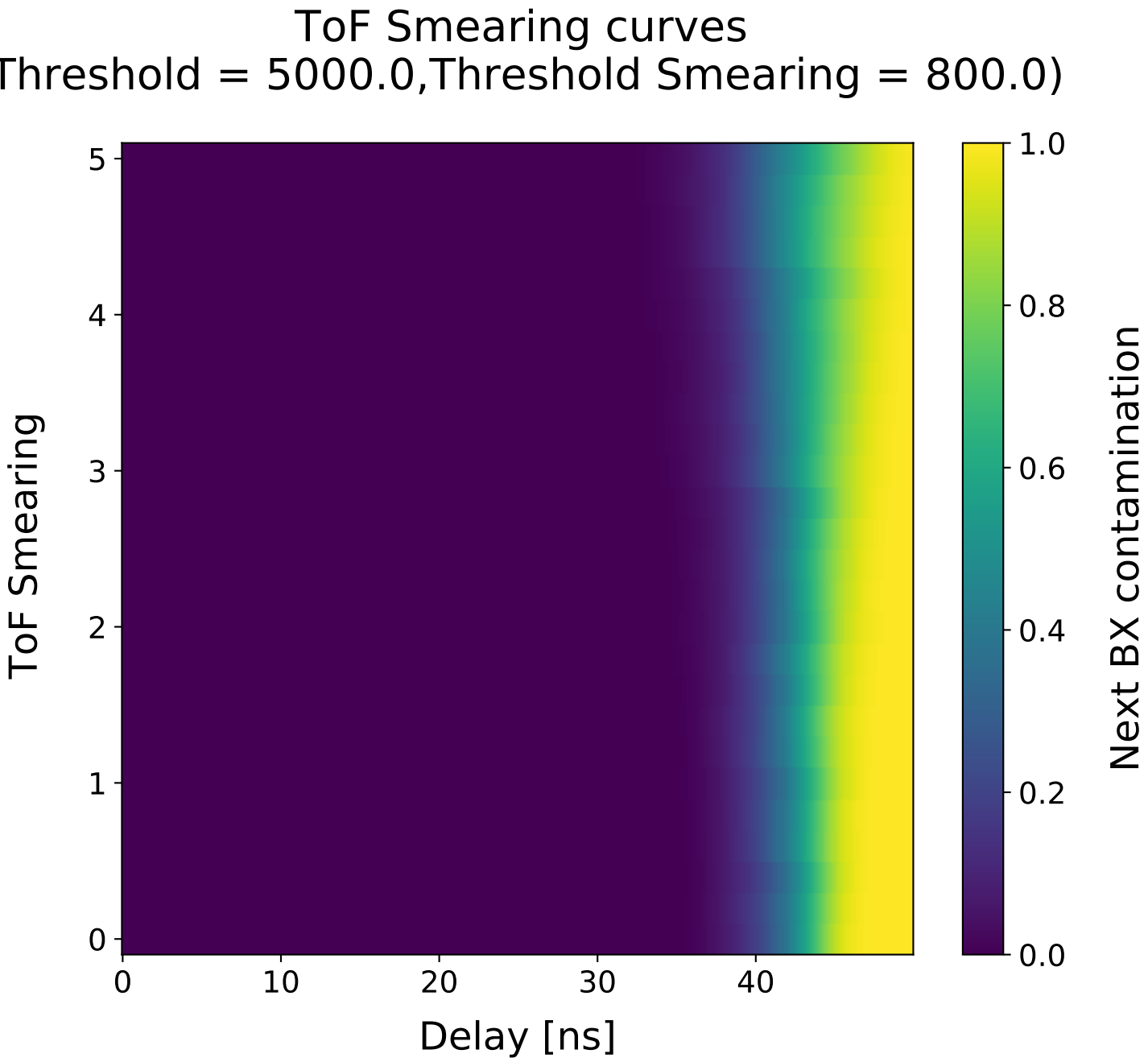

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

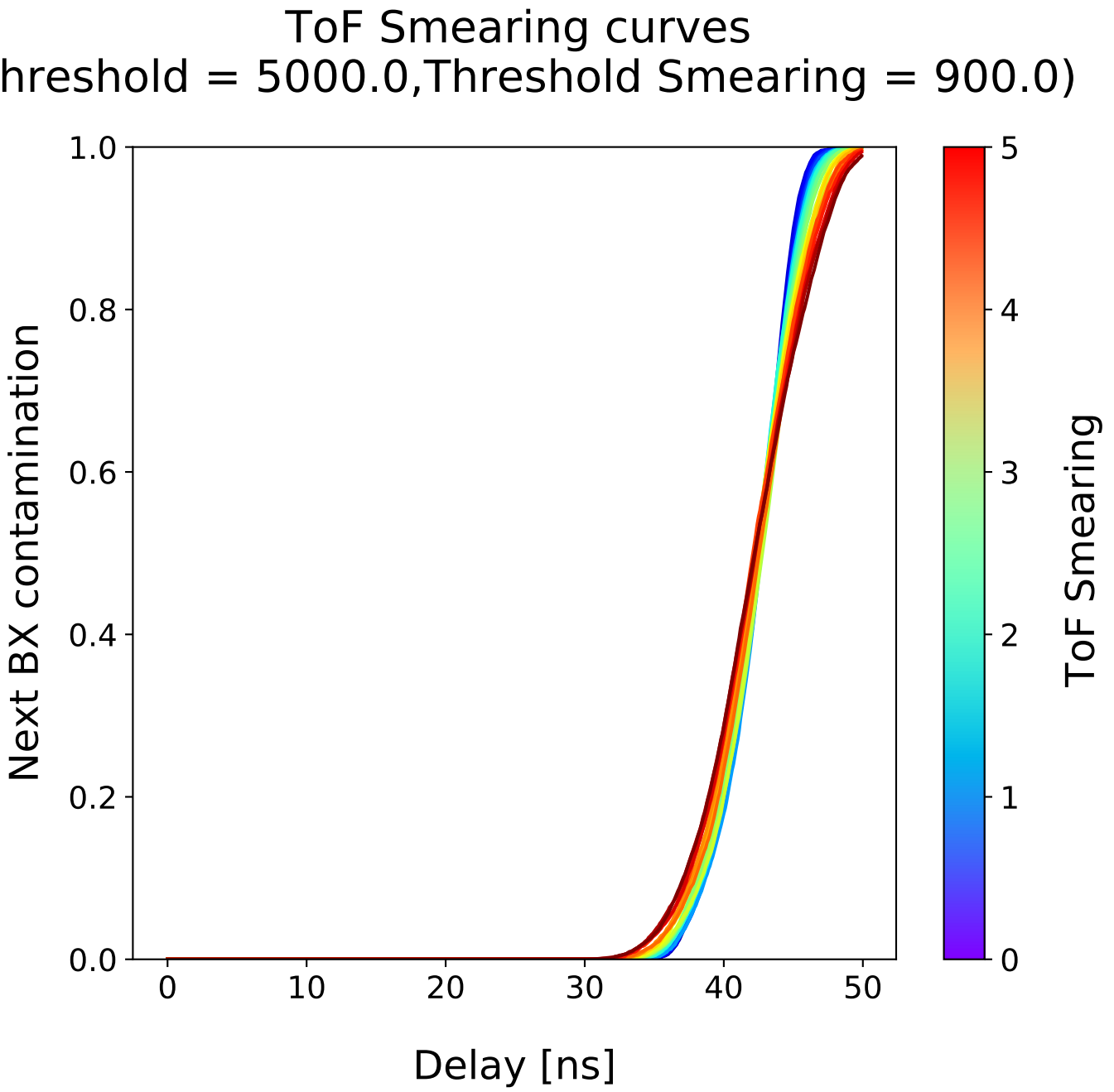

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

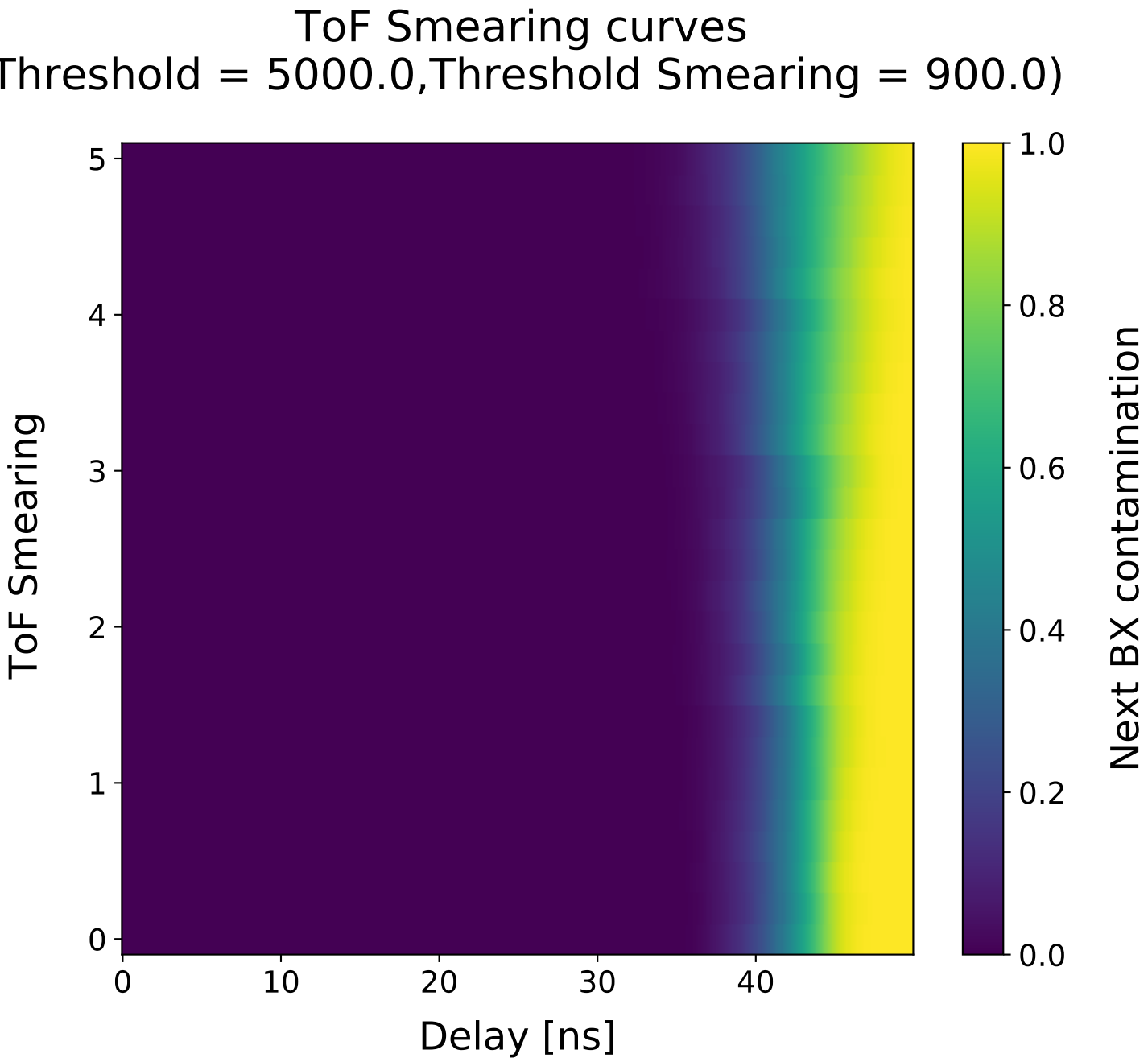

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

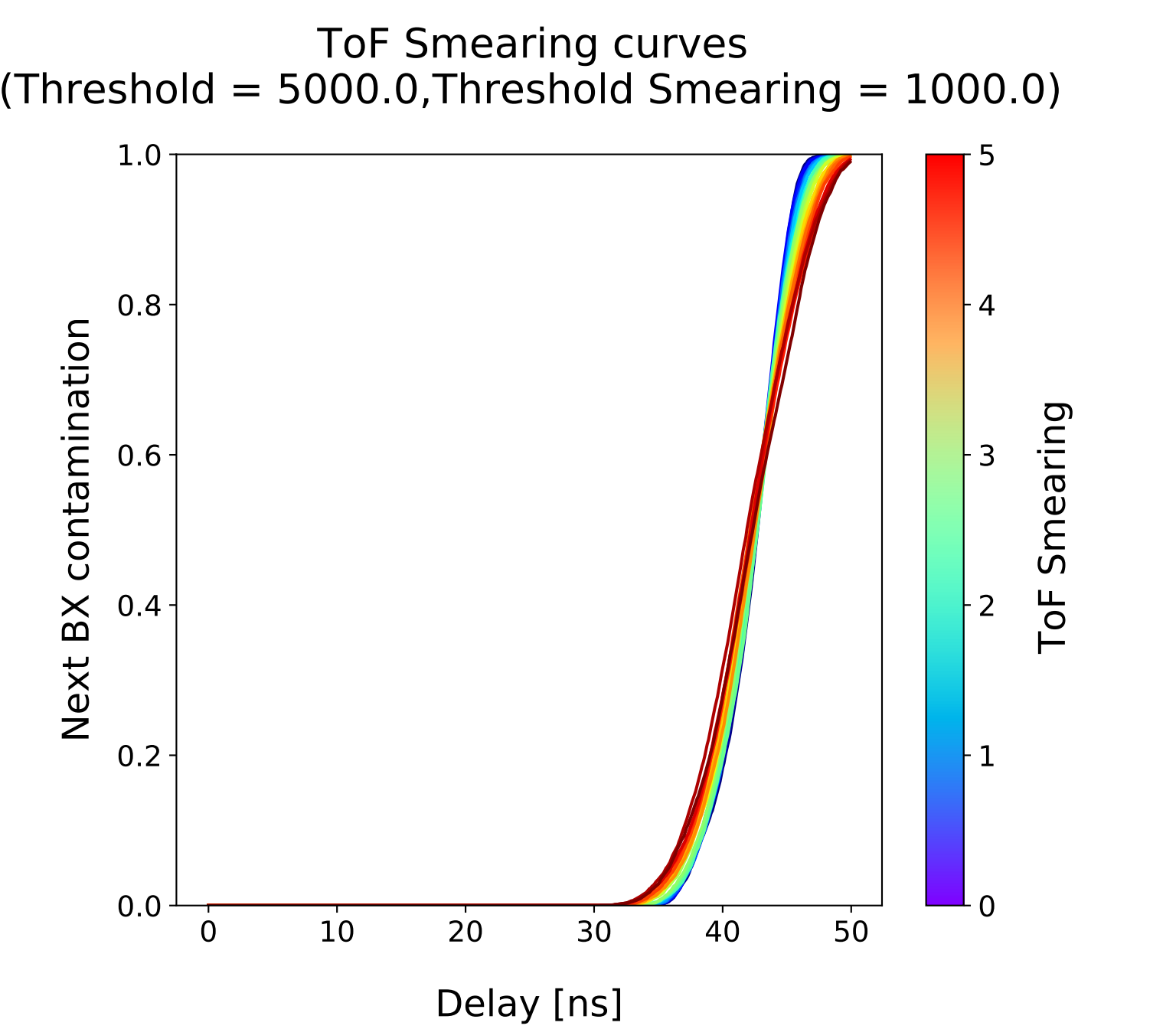

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

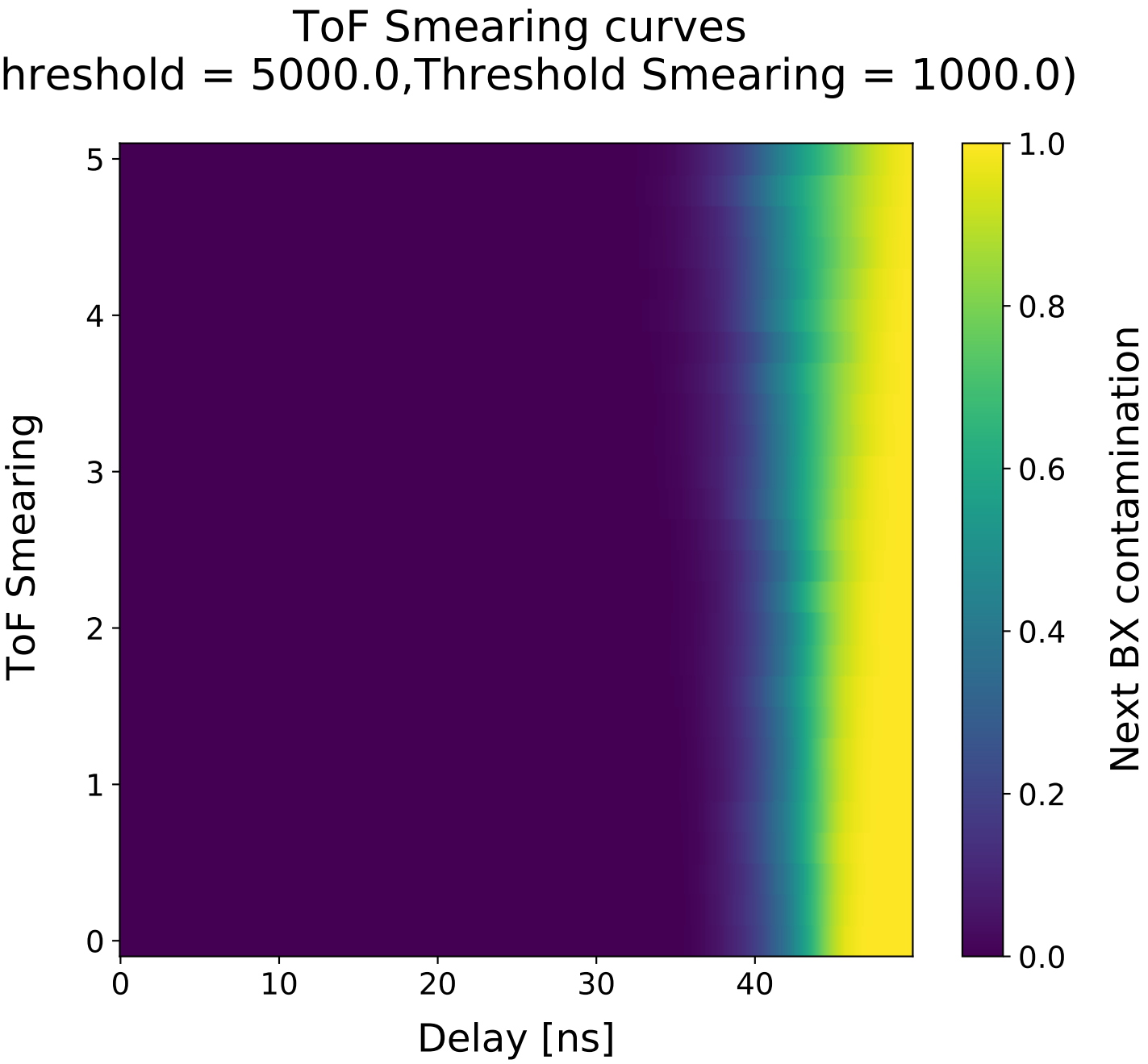

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

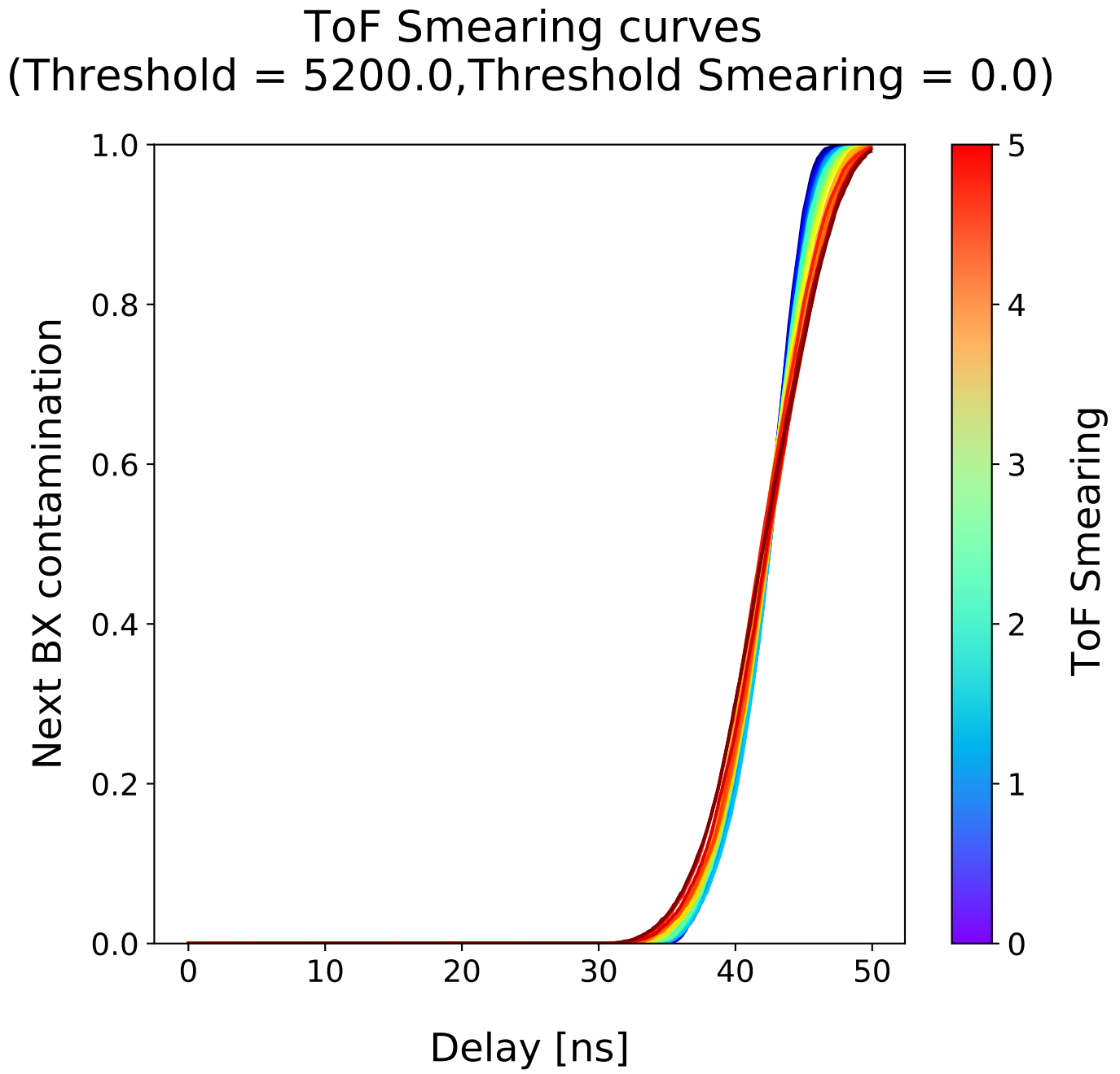

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

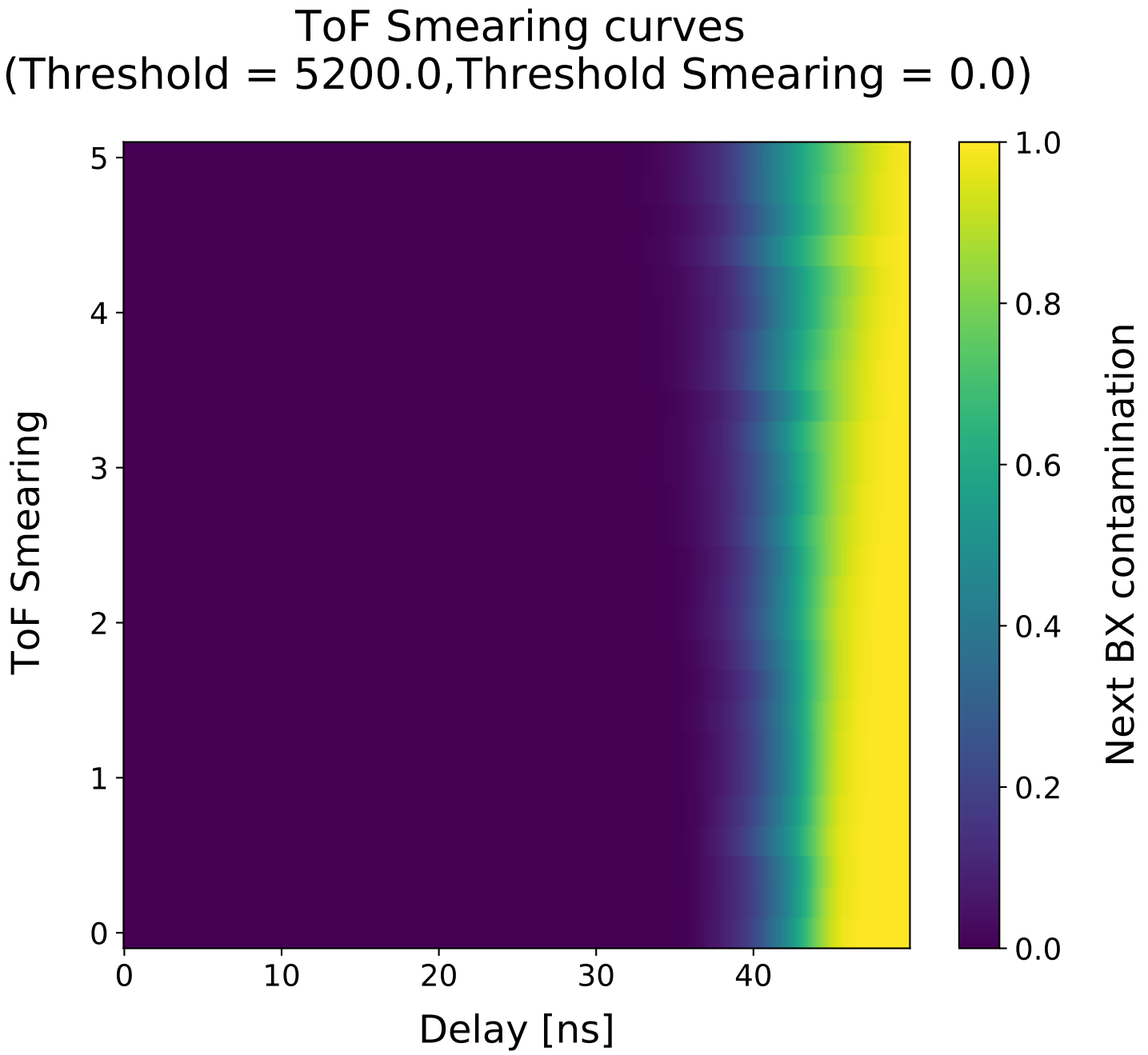

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

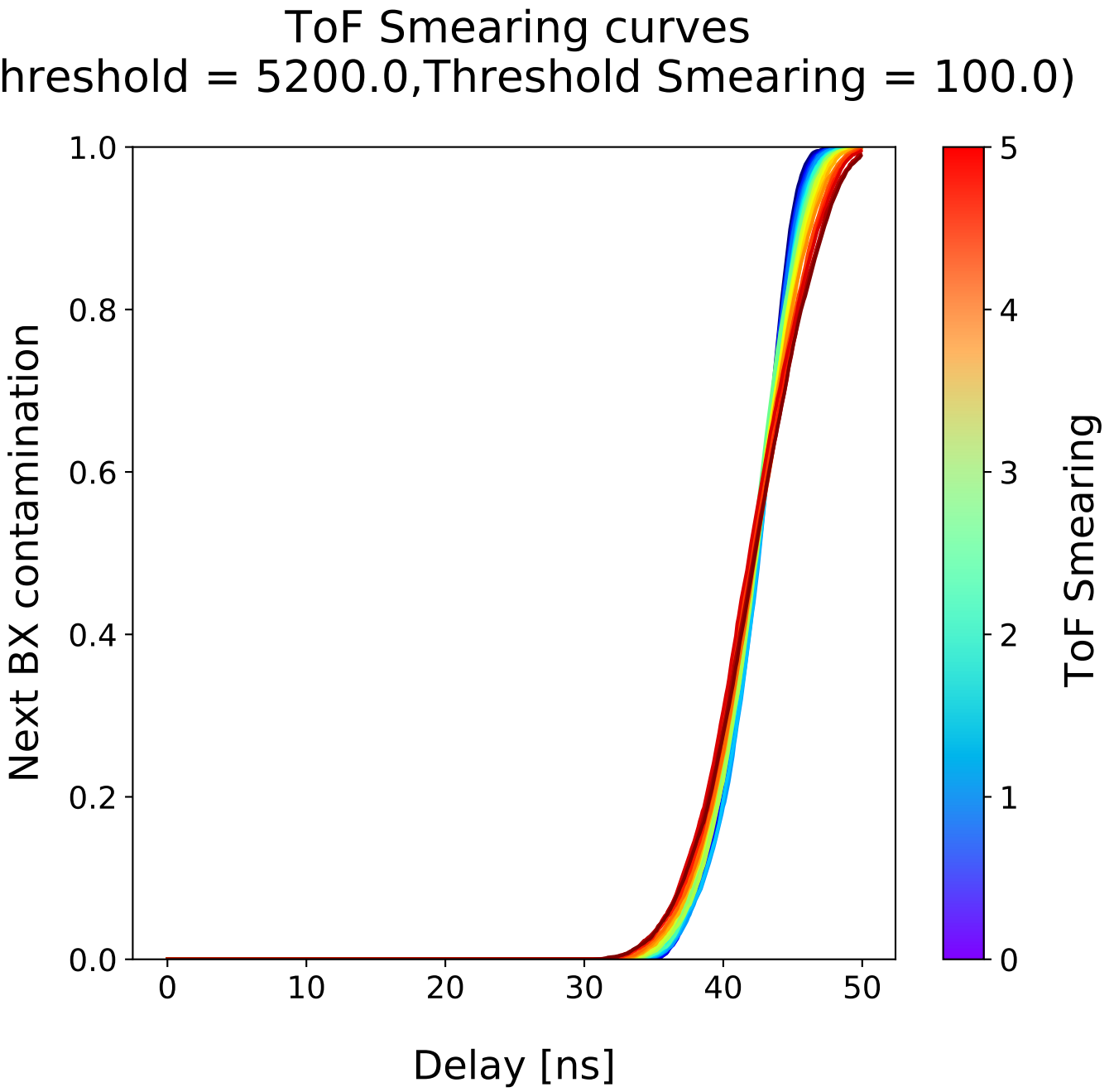

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

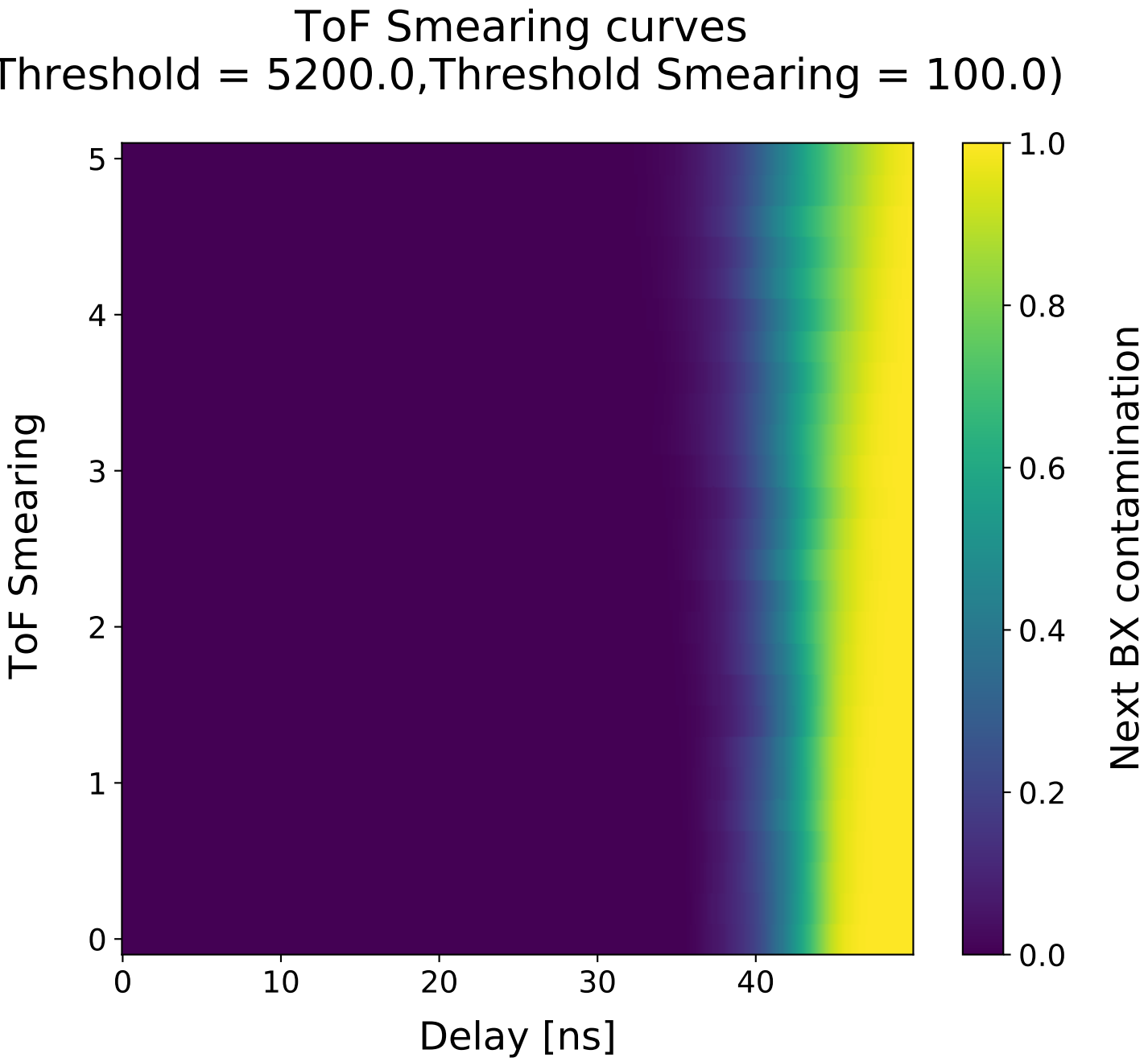

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
5
4
3
2
1
0

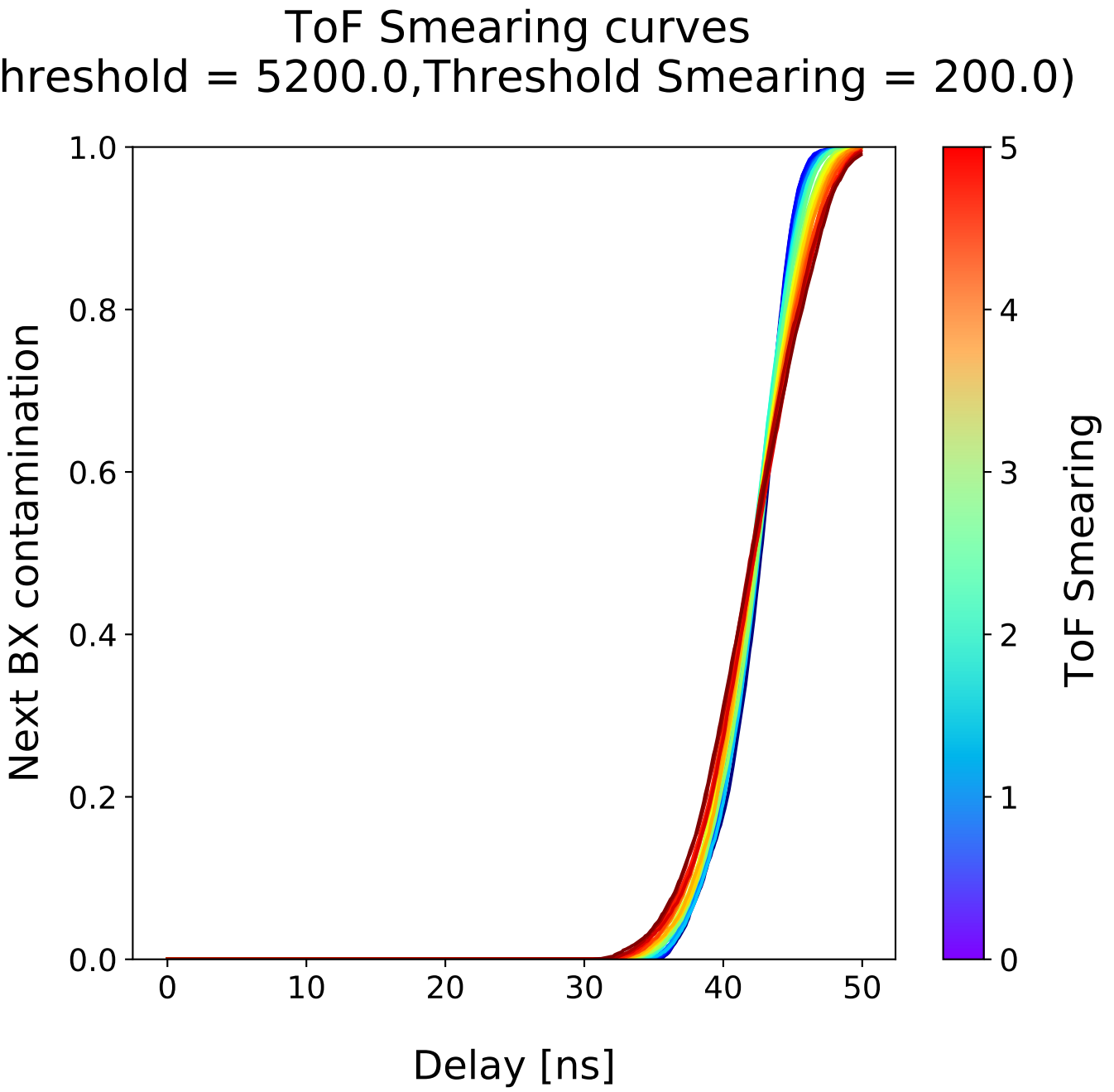

ToF Smearing curves
(Threshold = 5000.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

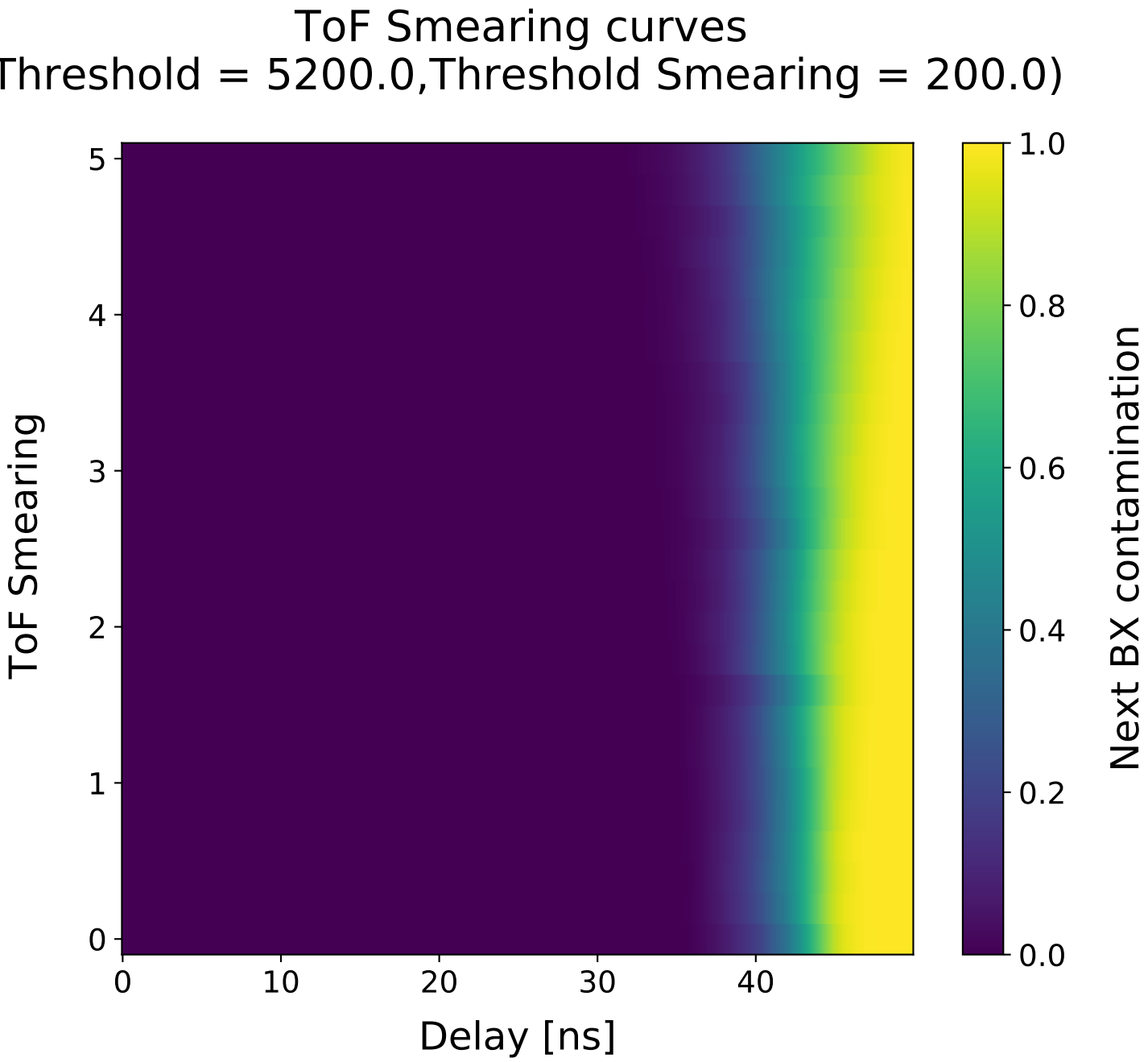

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

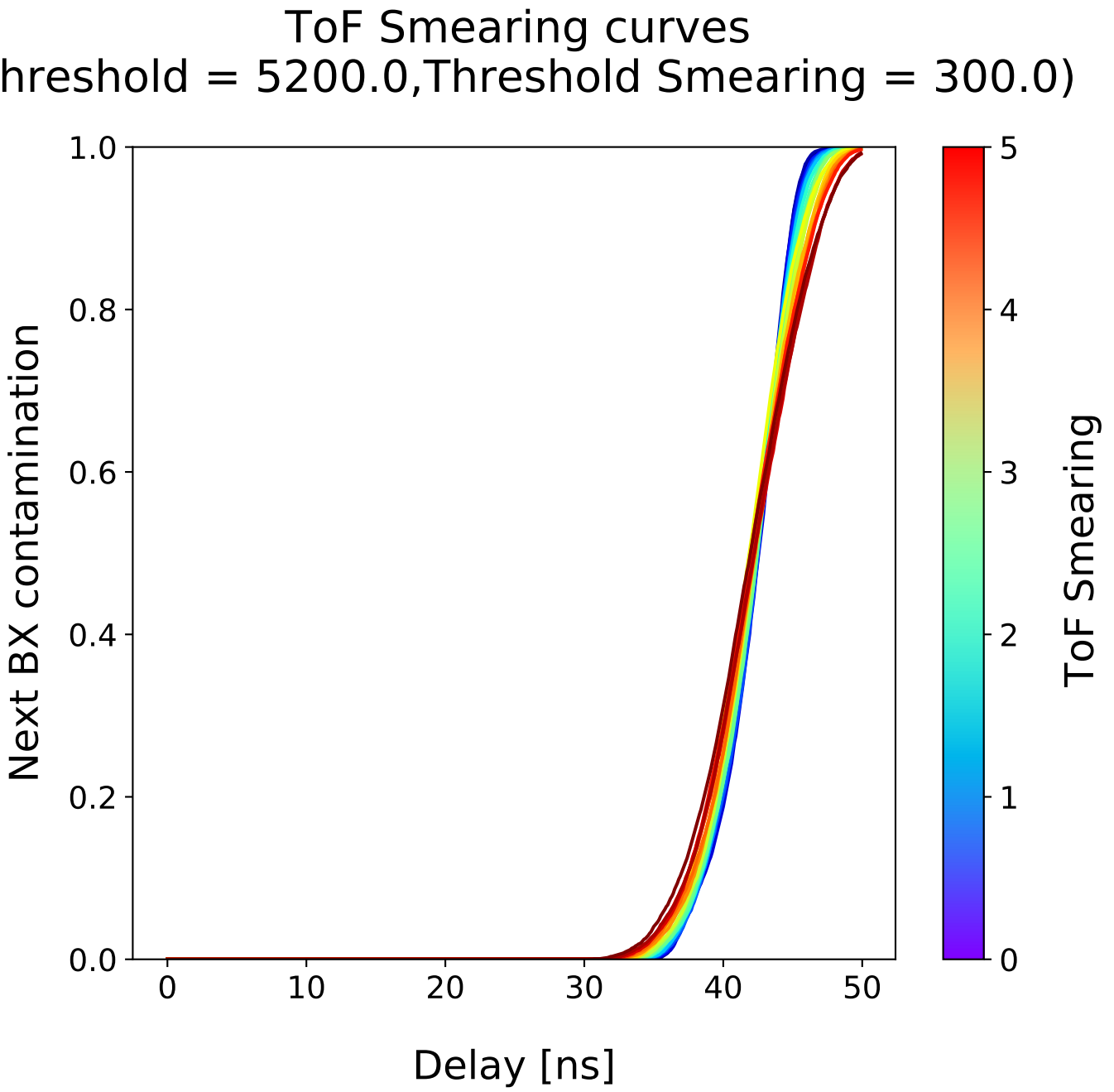

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

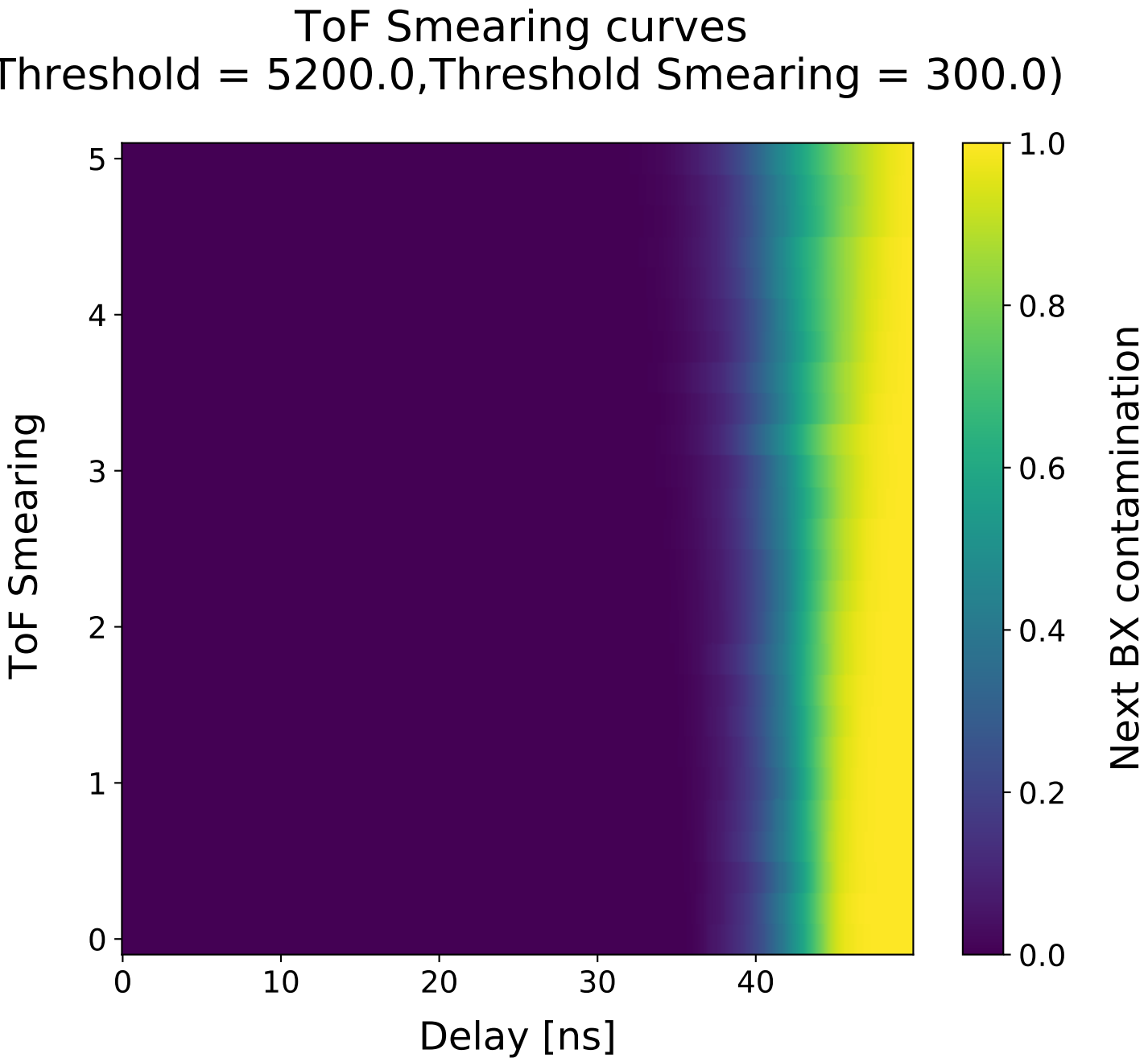

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

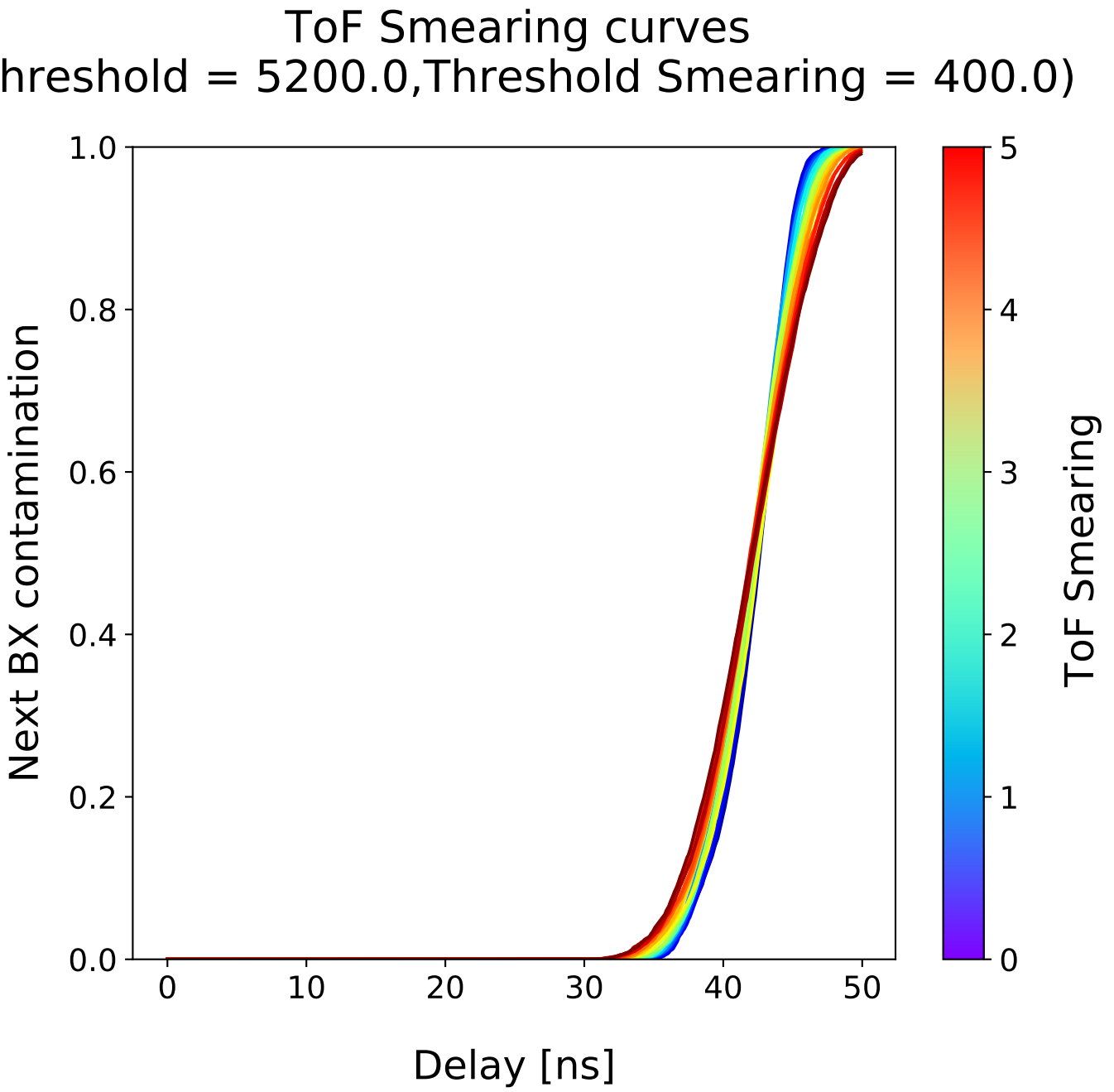

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

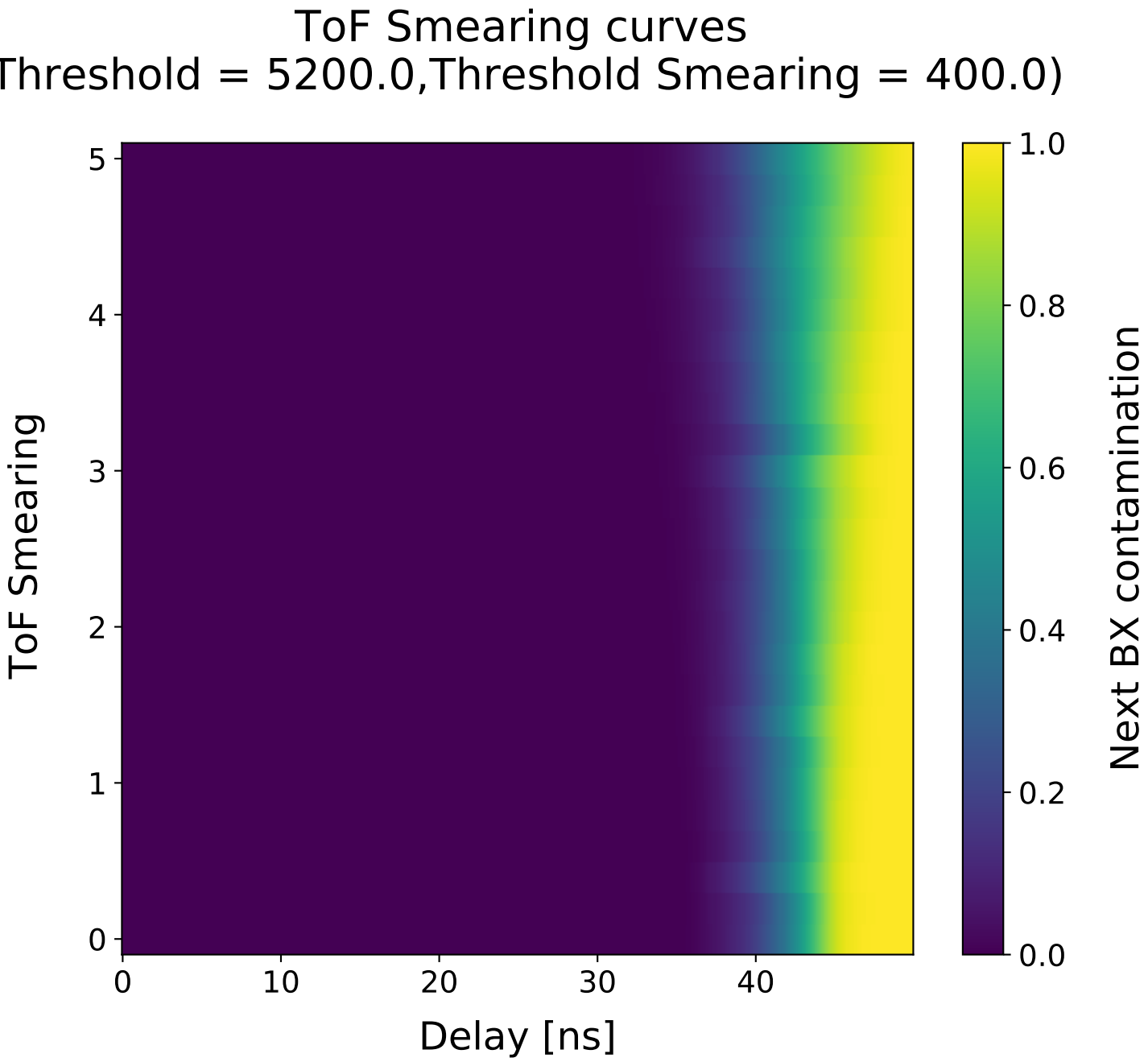

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

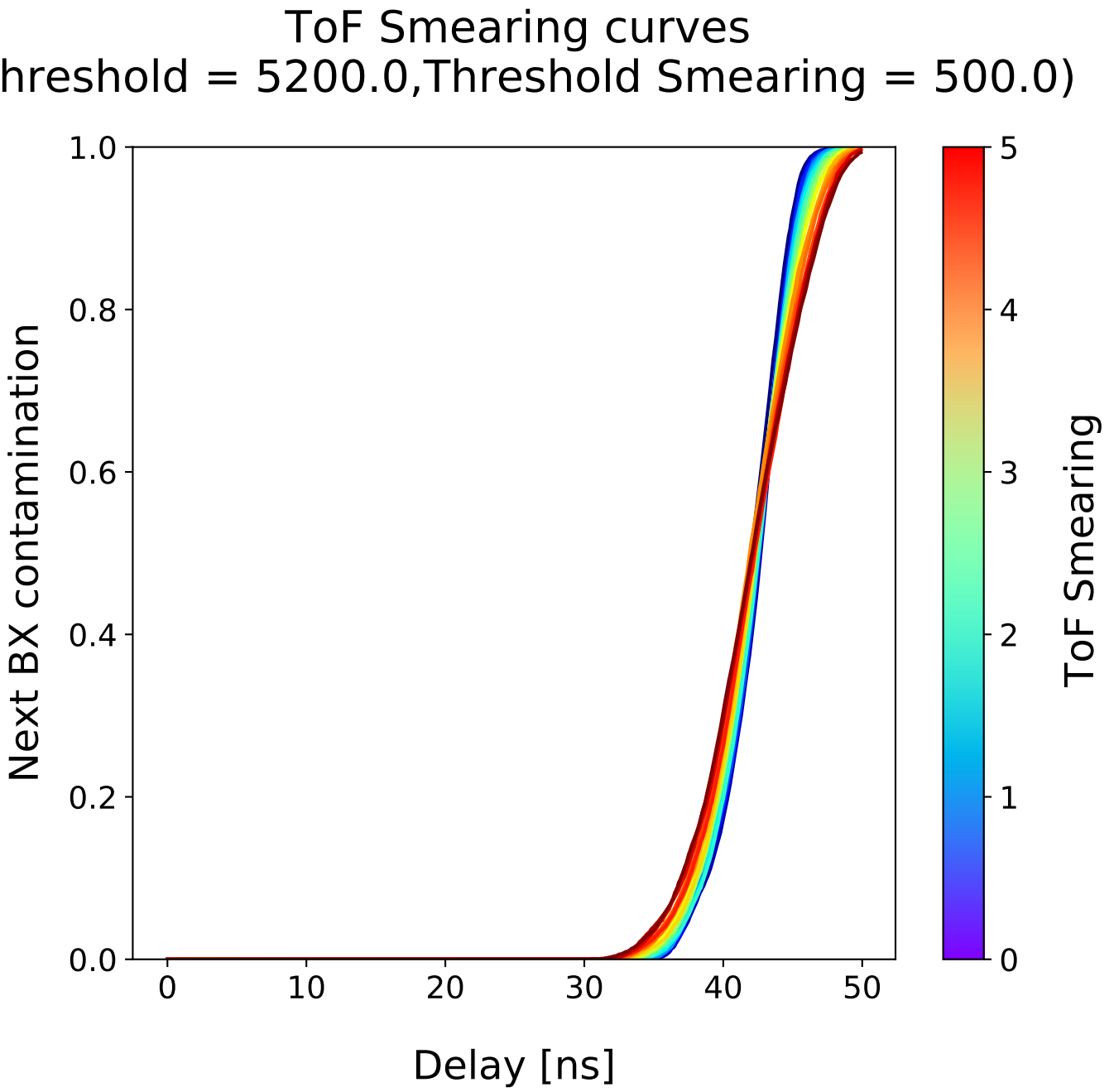

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

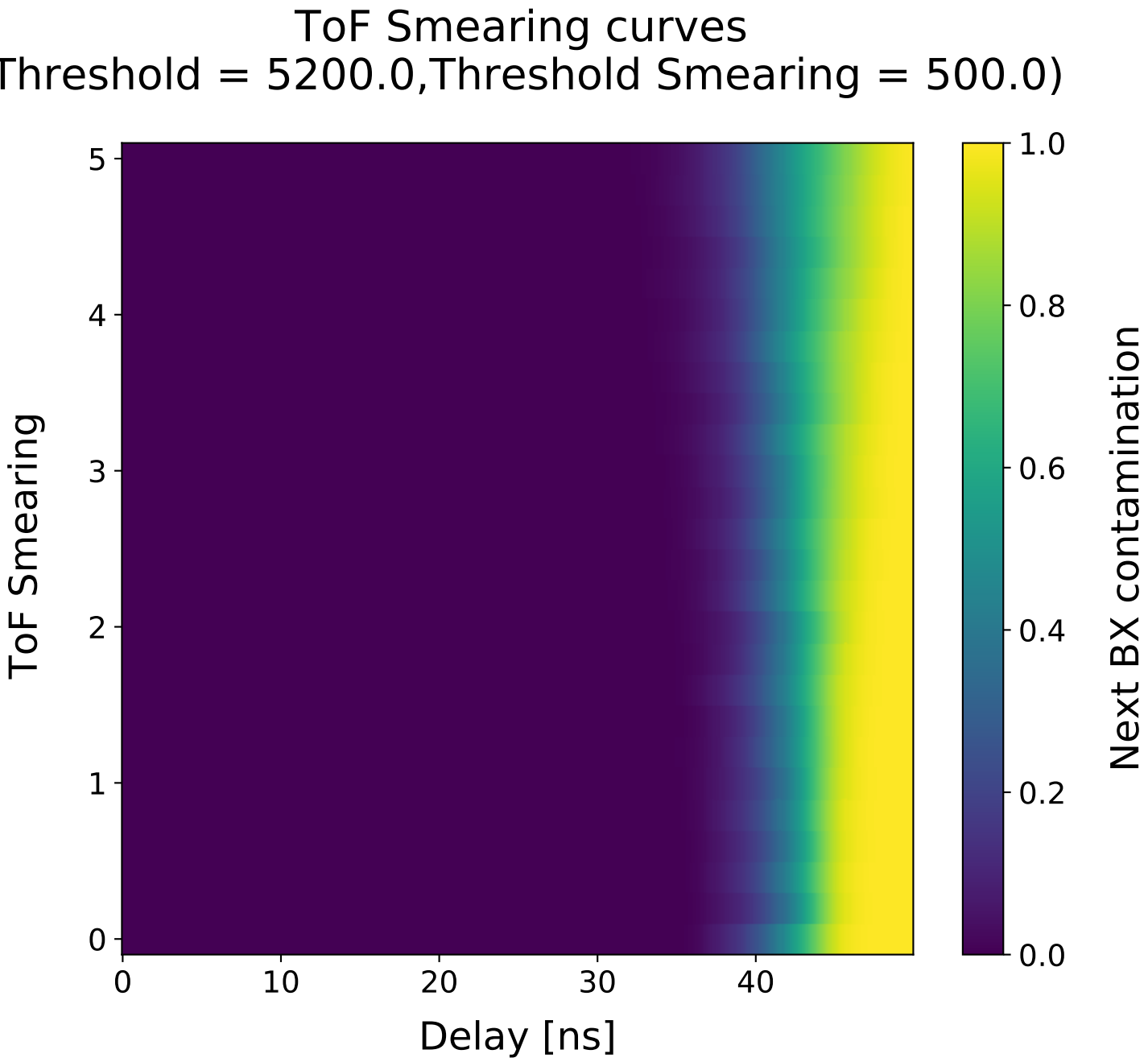

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

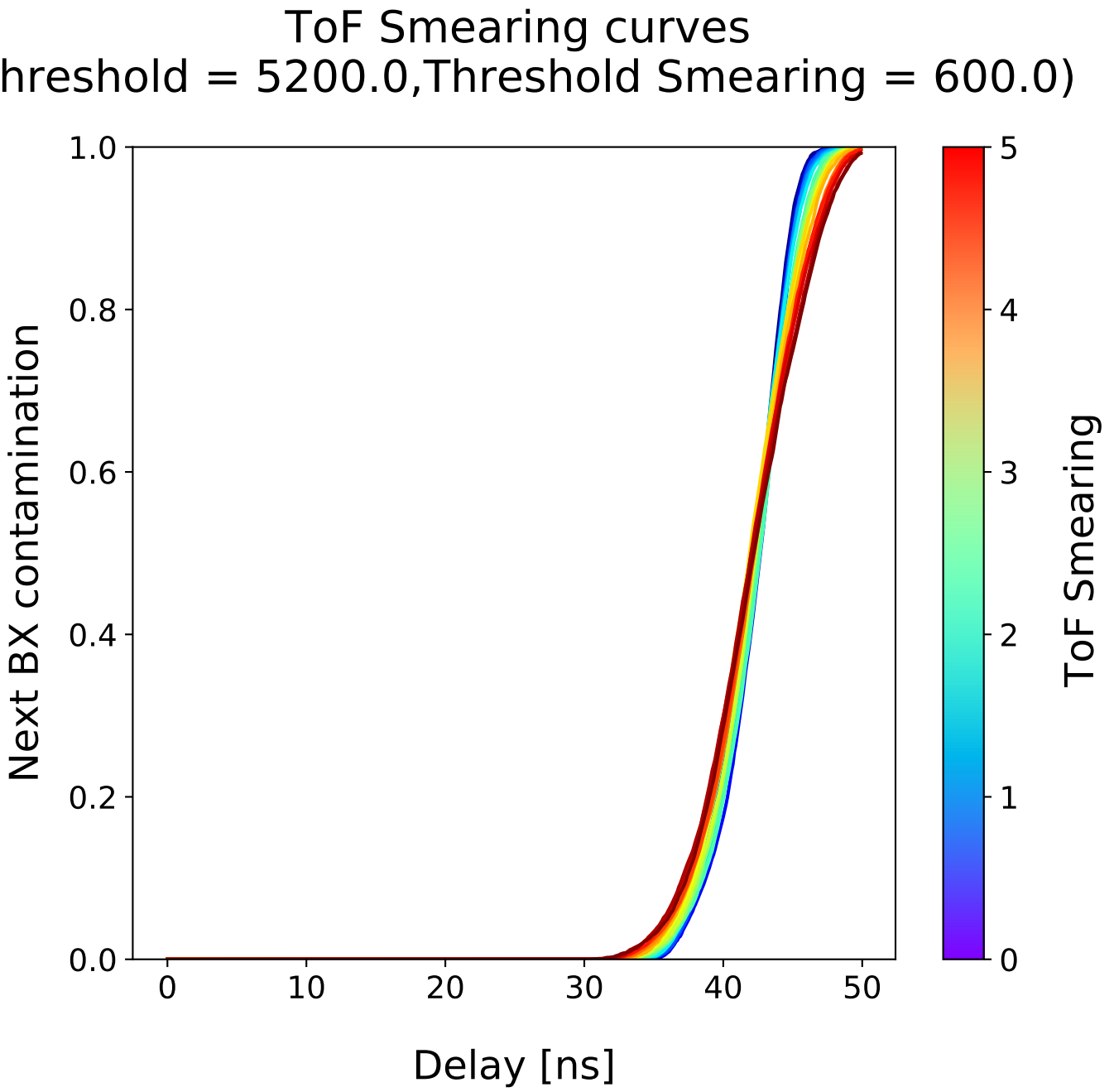

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

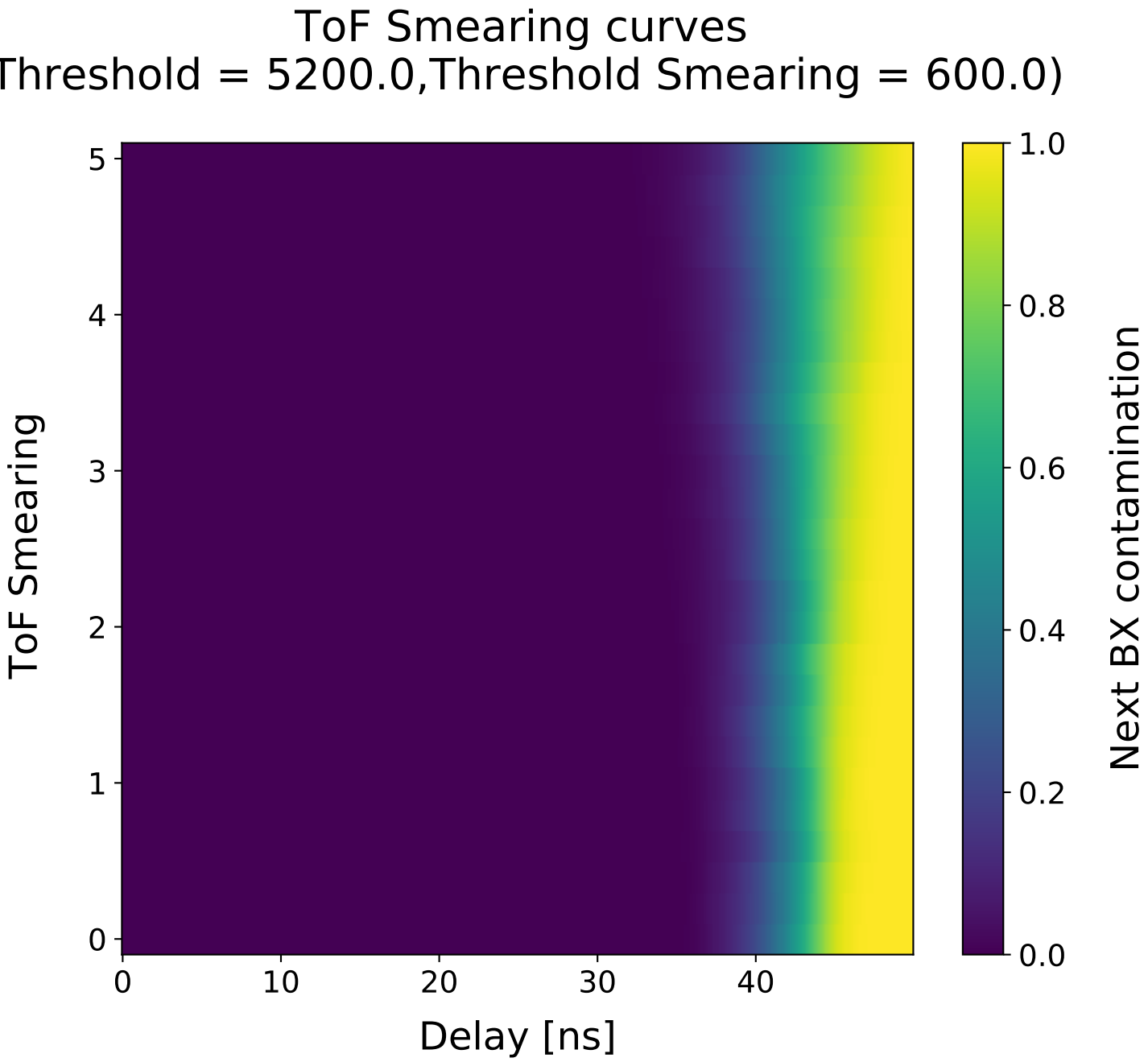

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

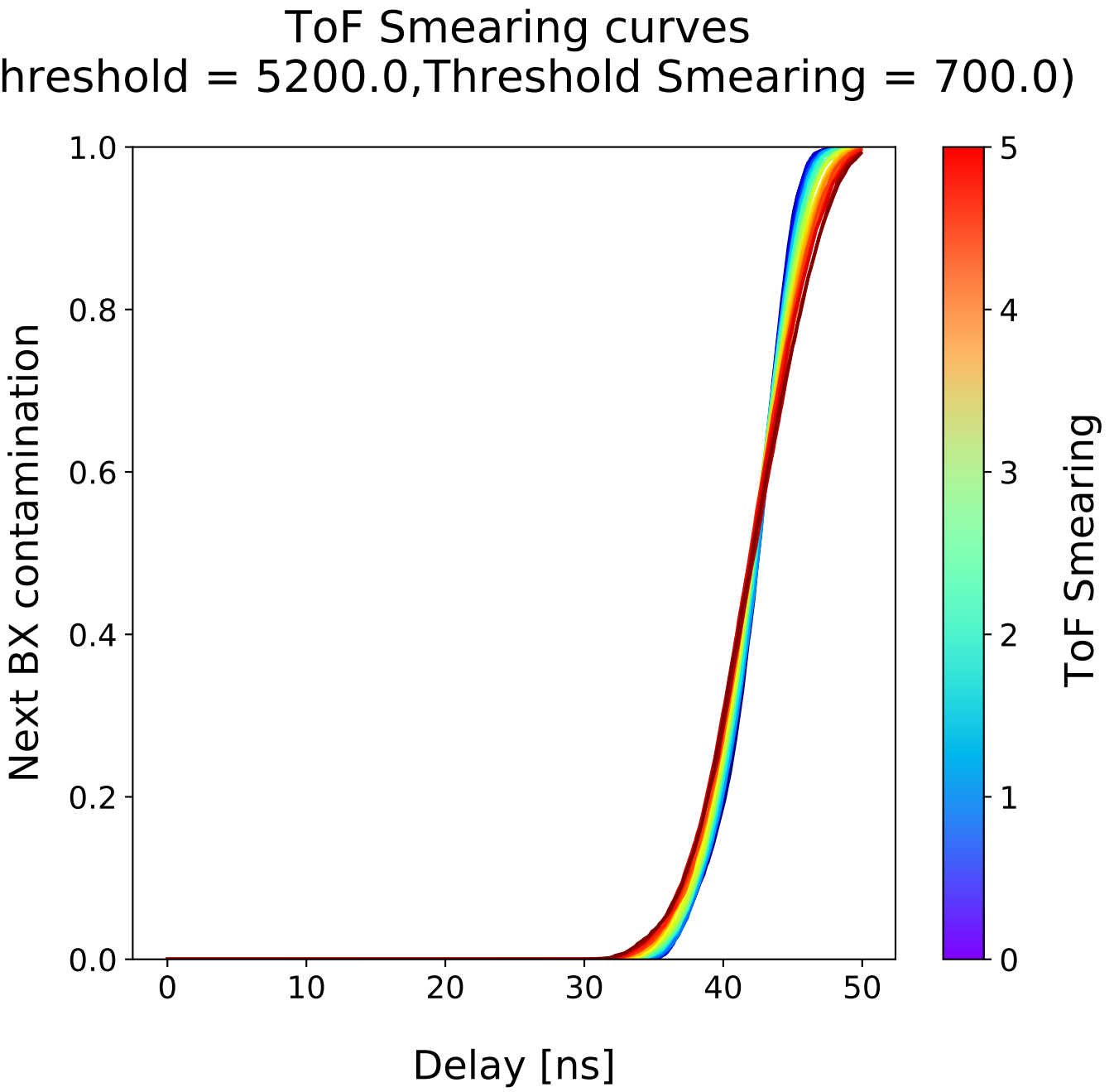

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

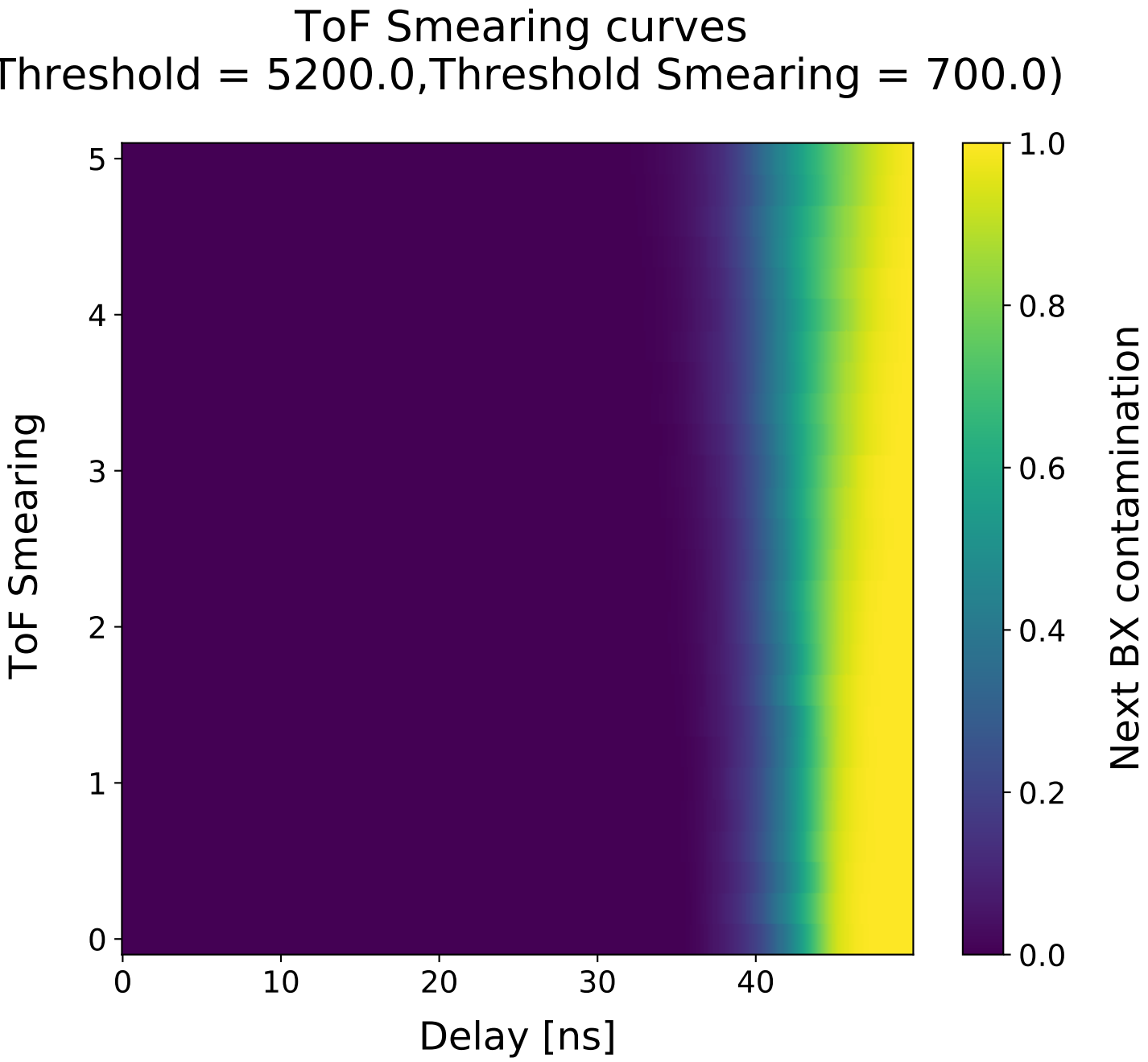

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

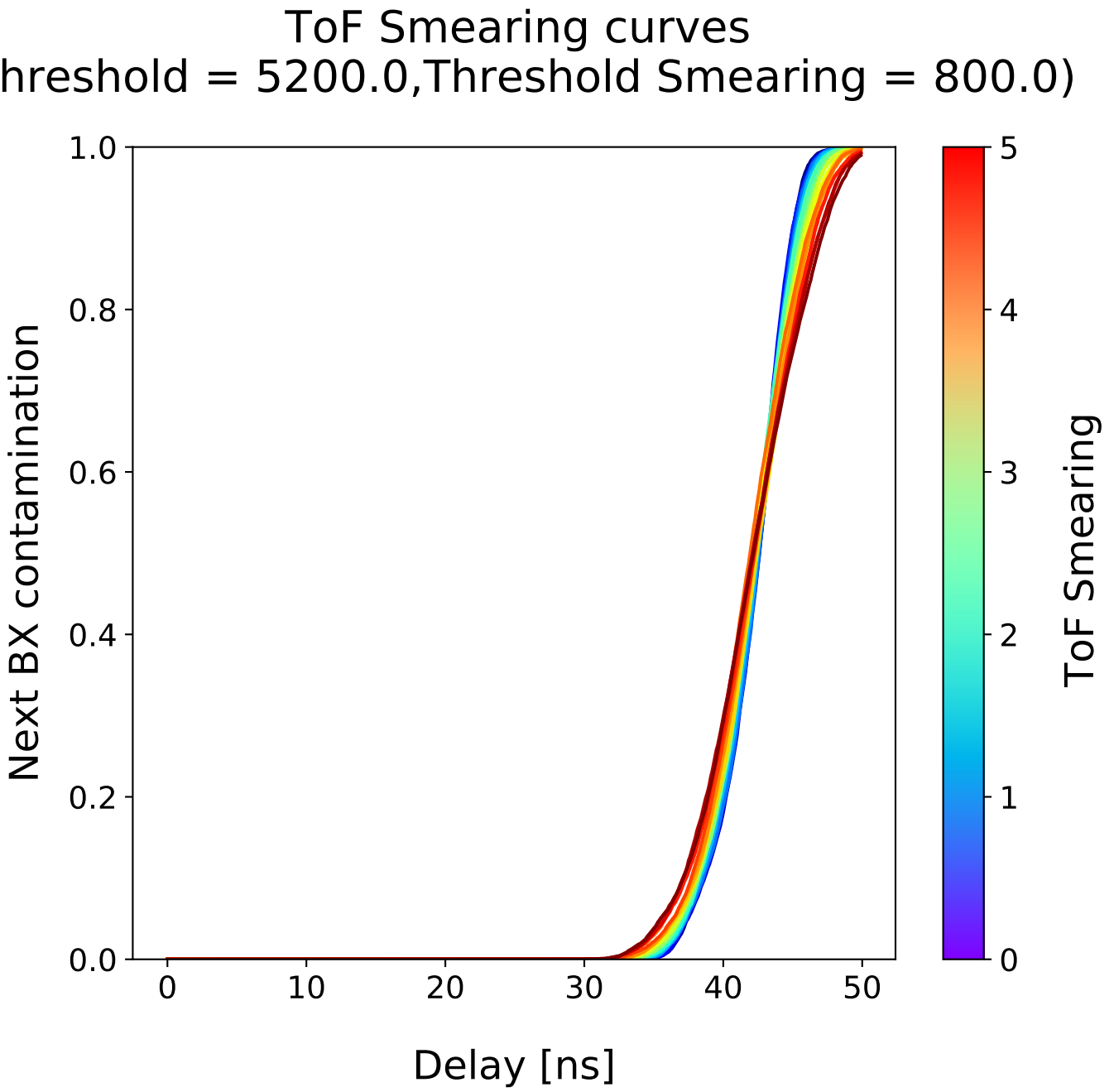

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

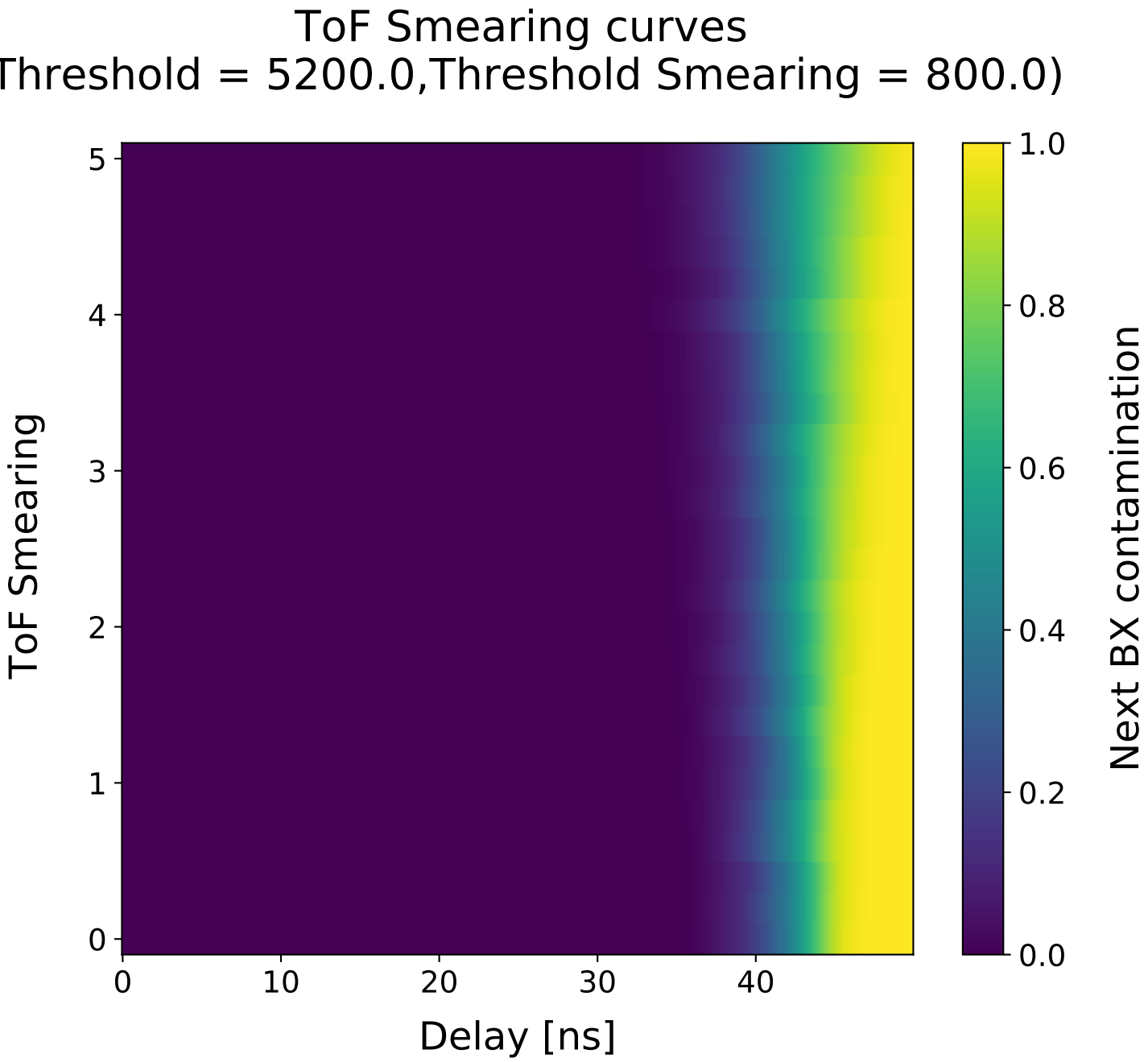

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

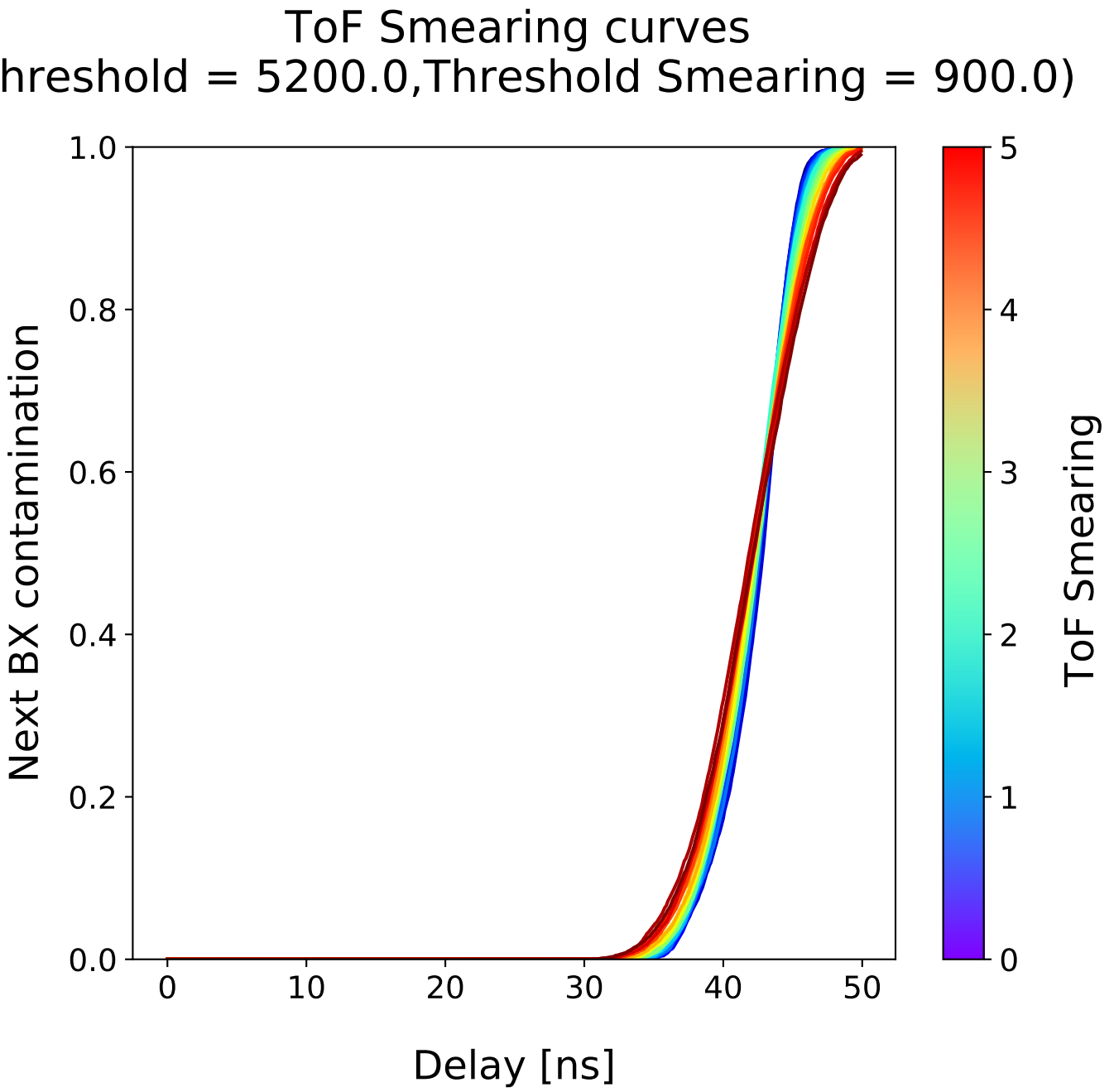

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

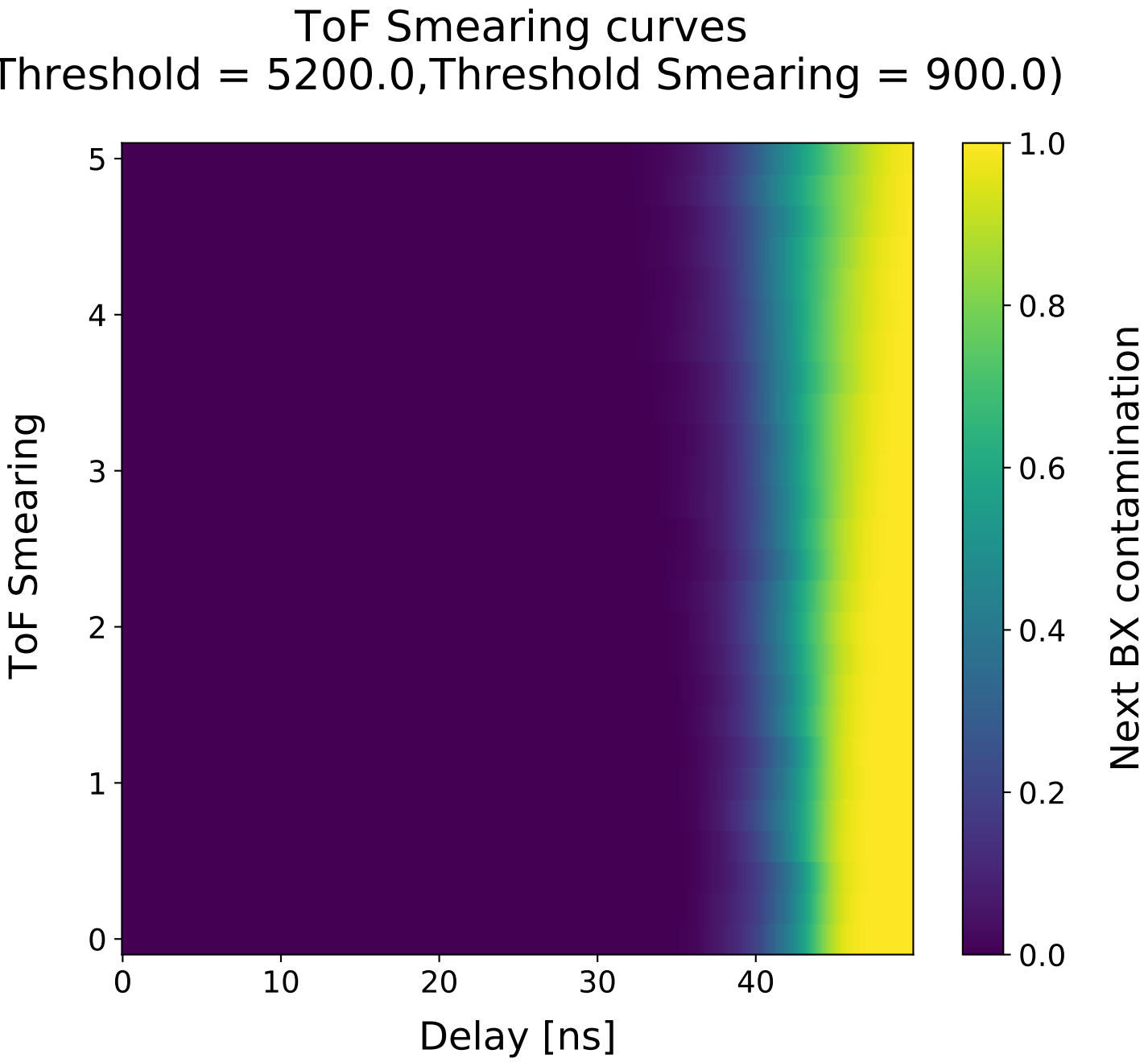

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
5
4
3
2
1
0

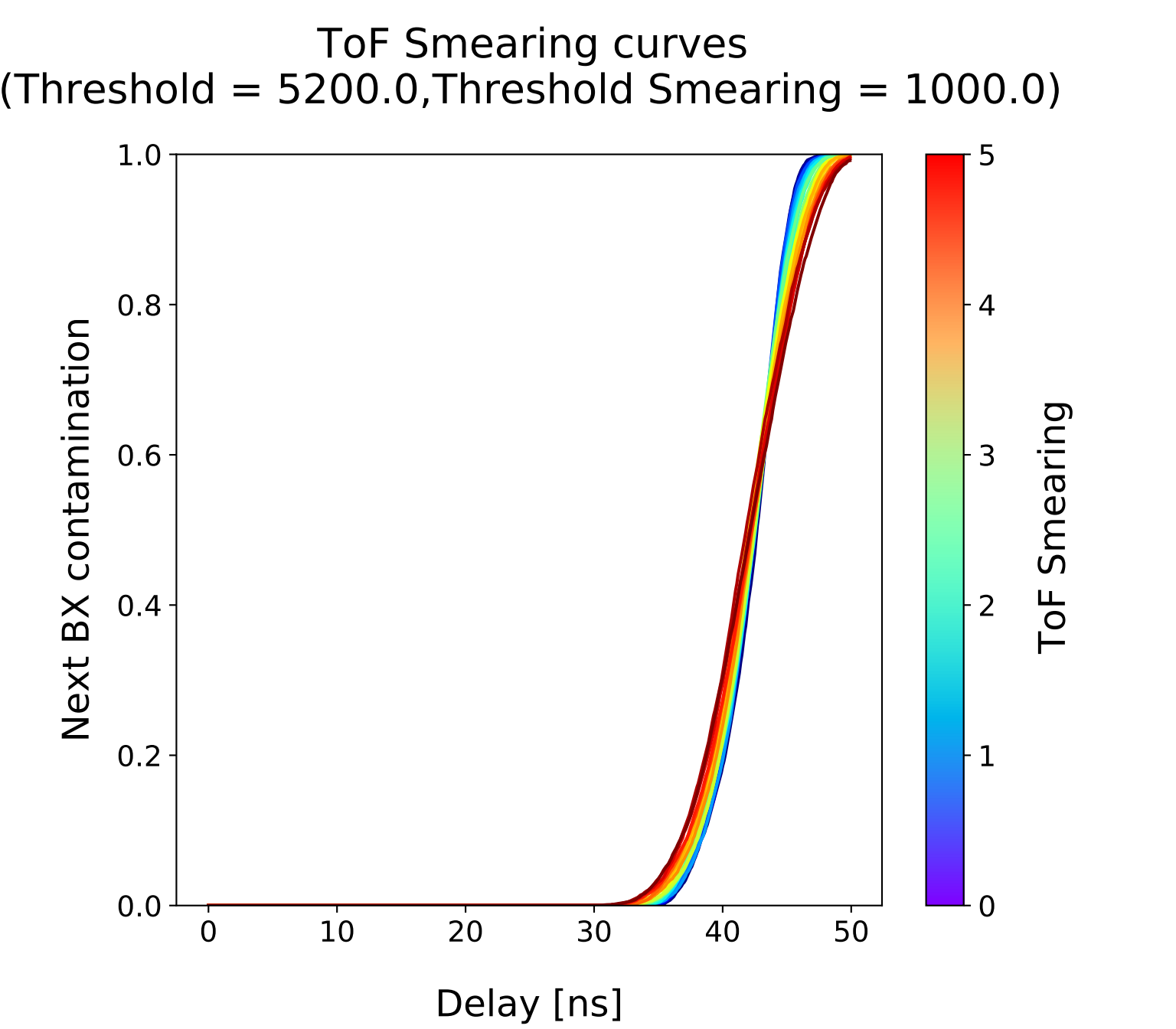

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

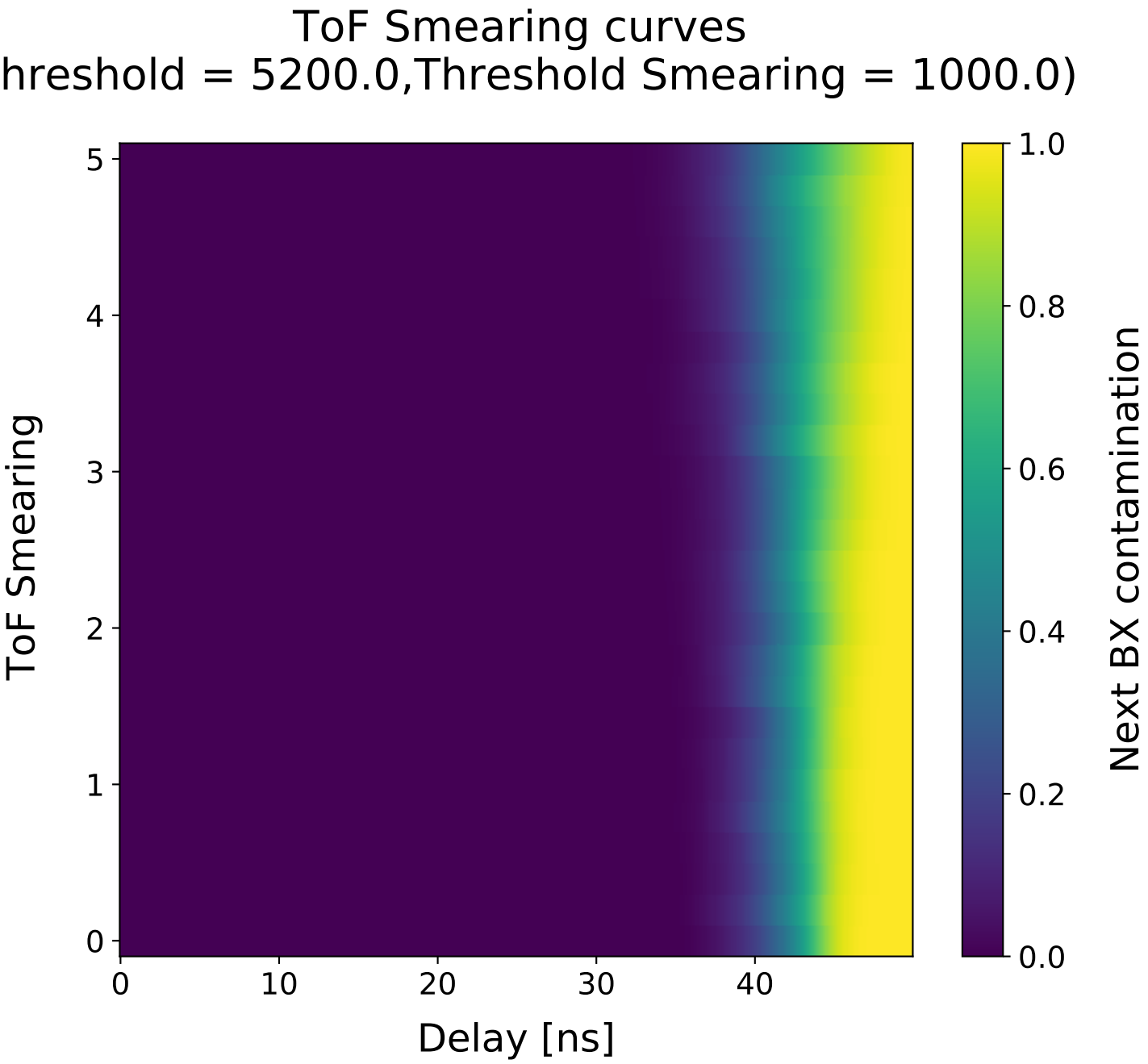

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

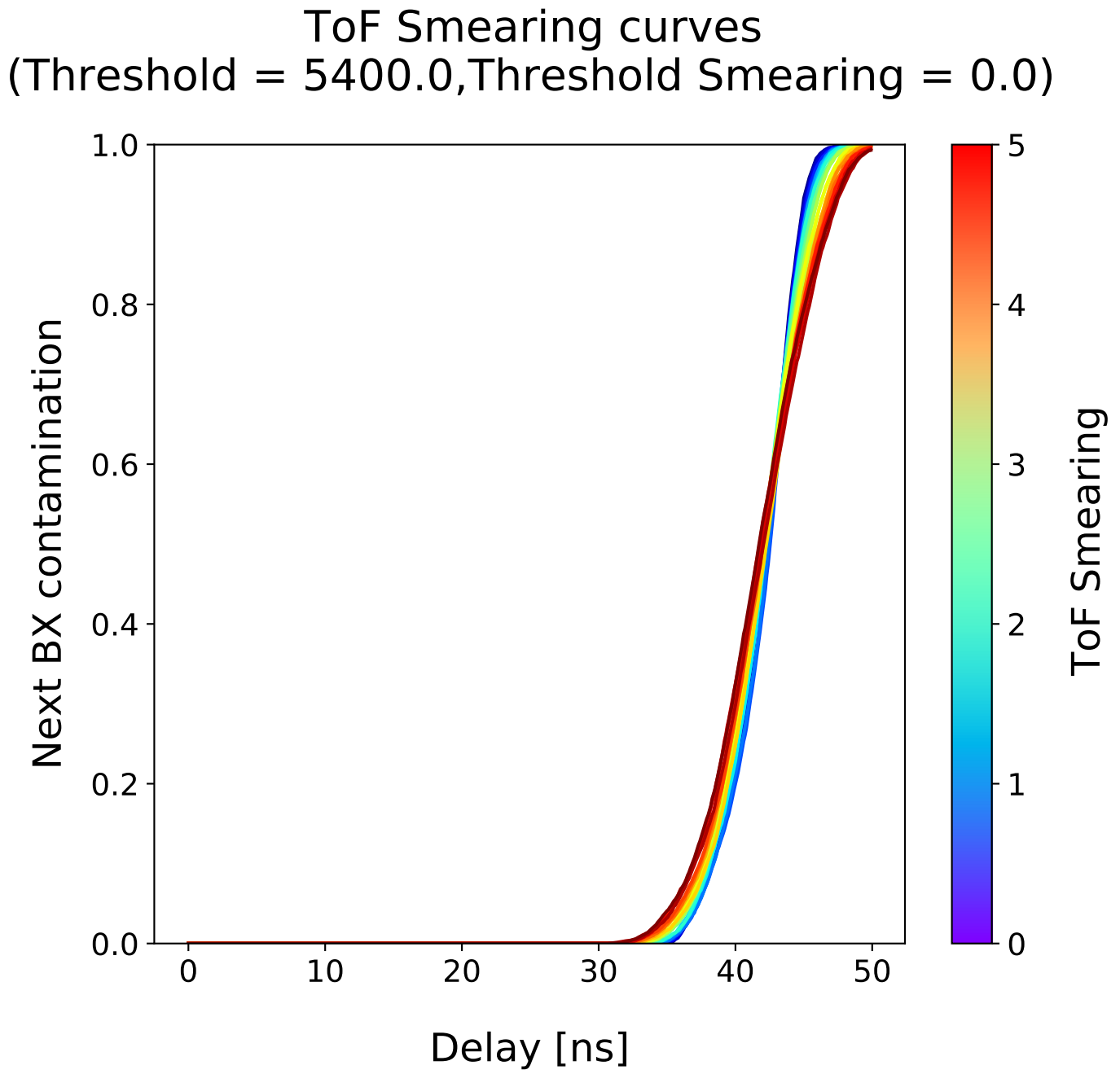

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

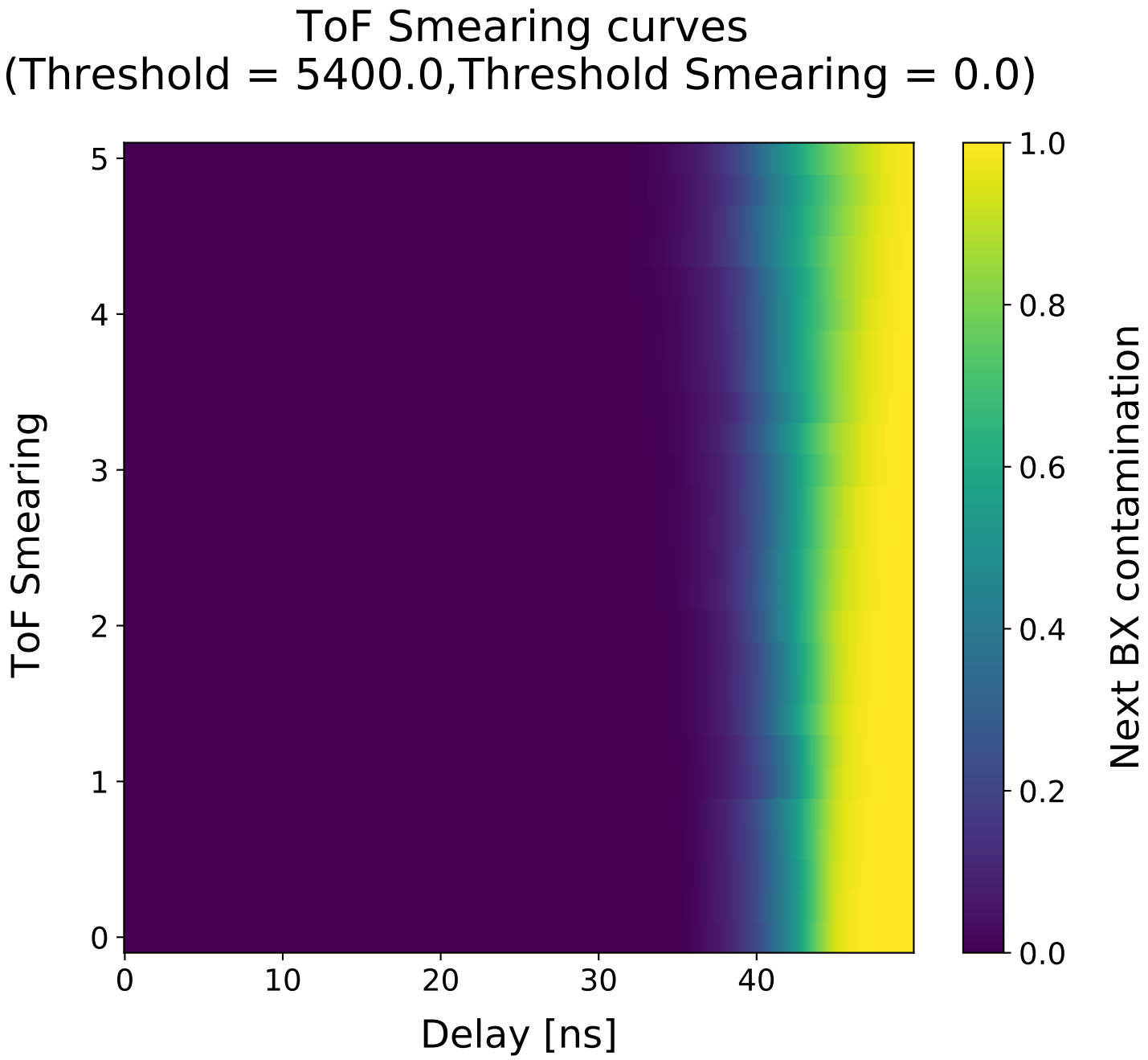

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

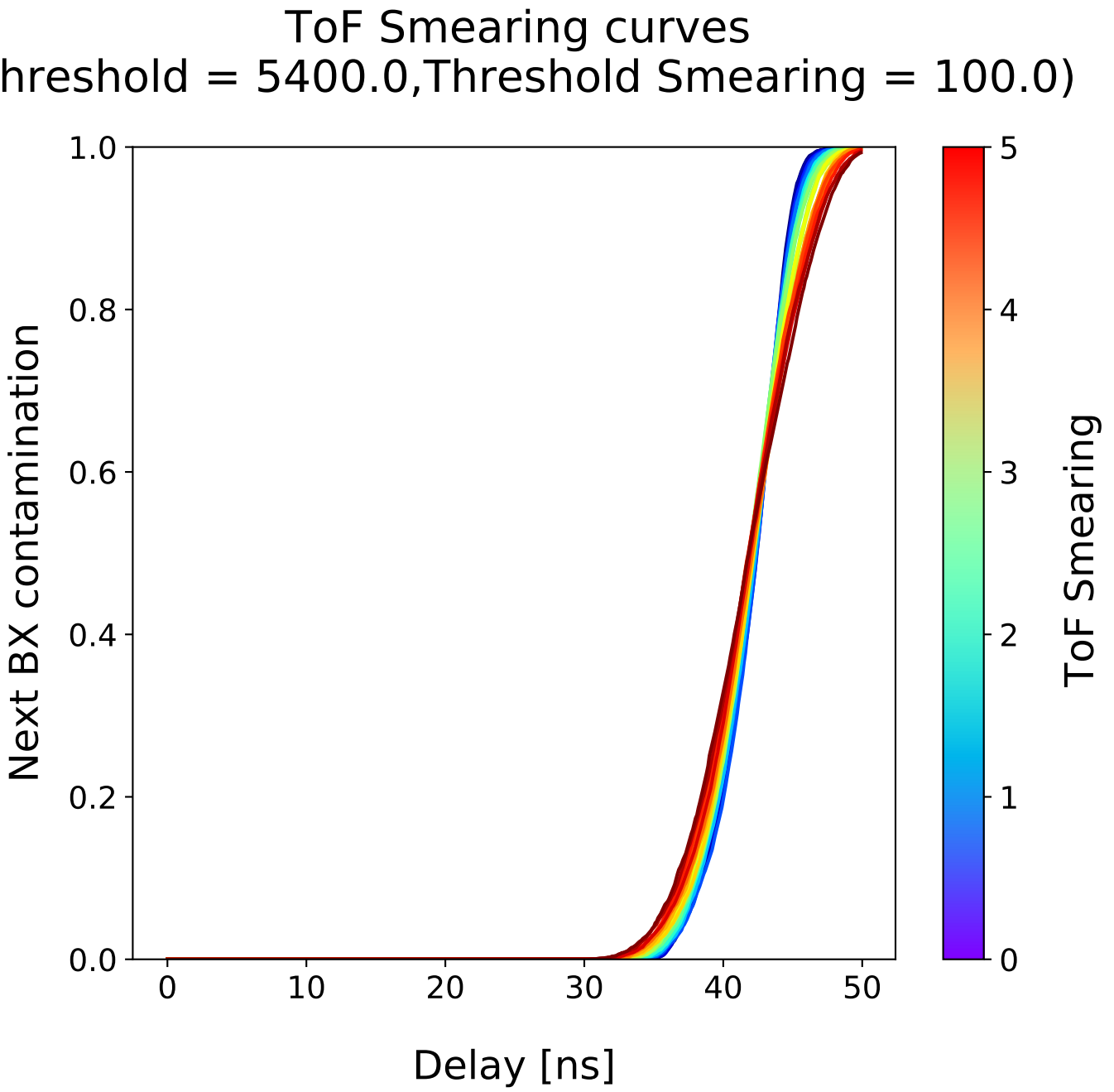

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

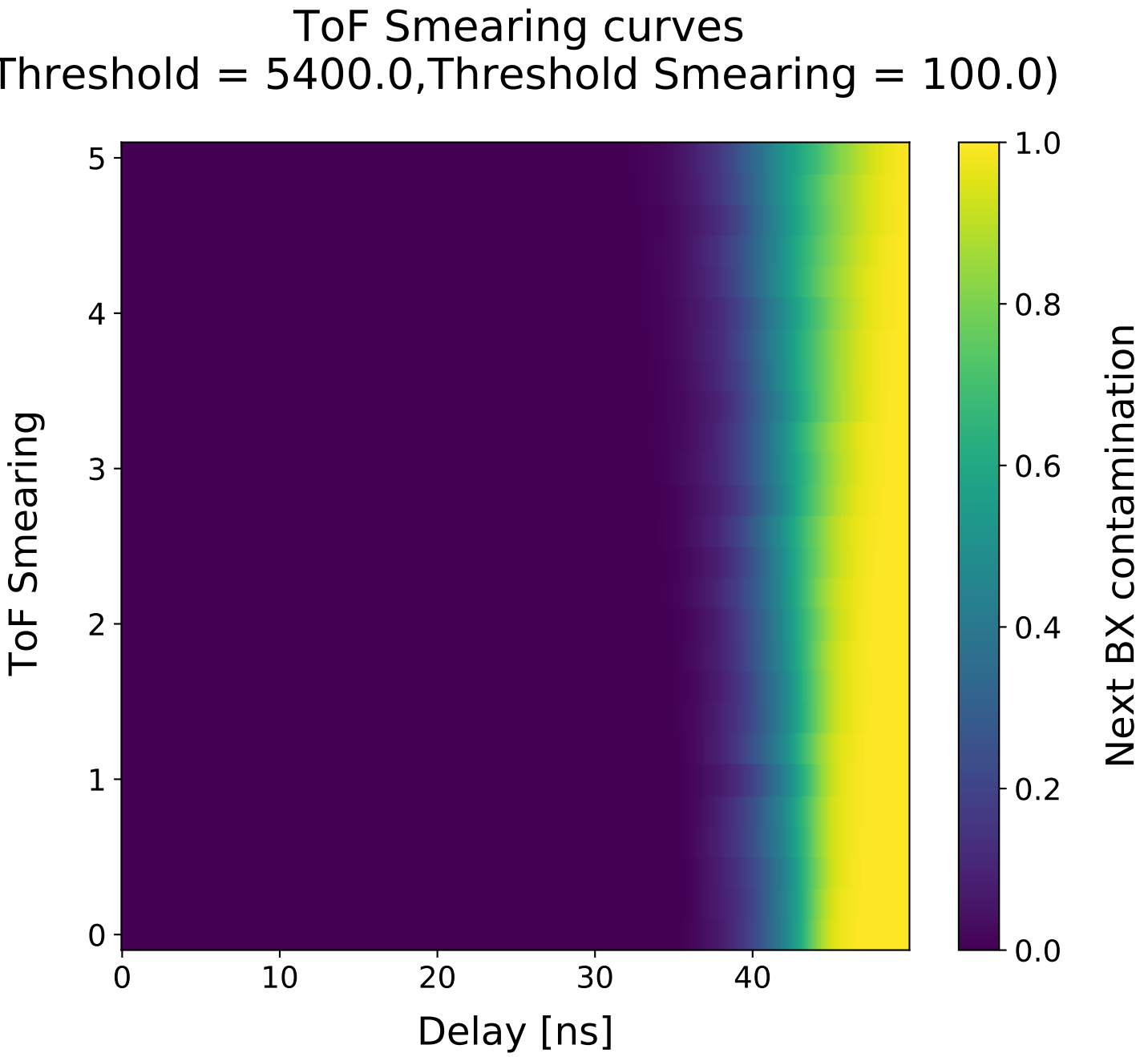

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
5
4
3
2
1
0

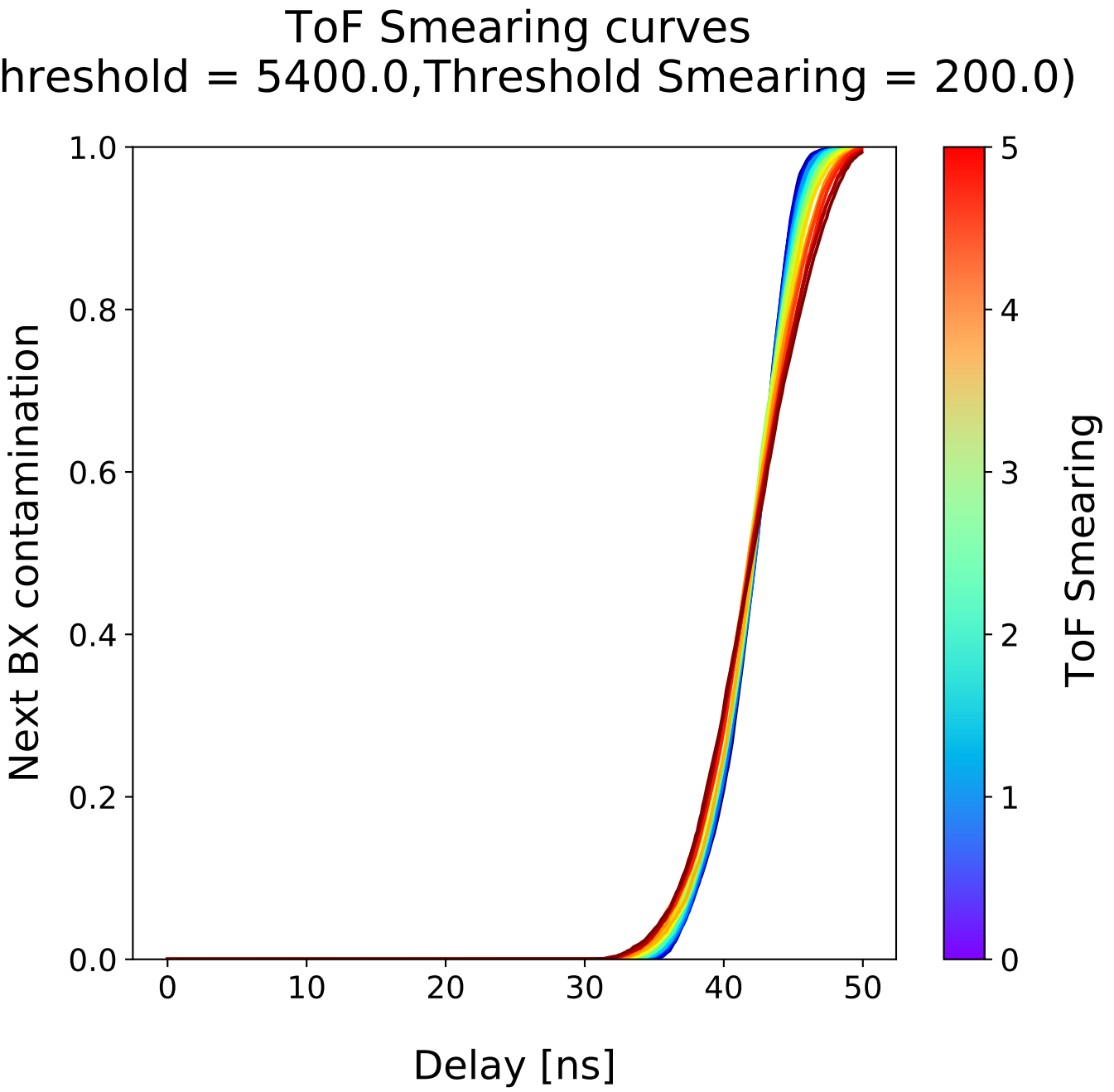

ToF Smearing curves
(Threshold = 5200.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

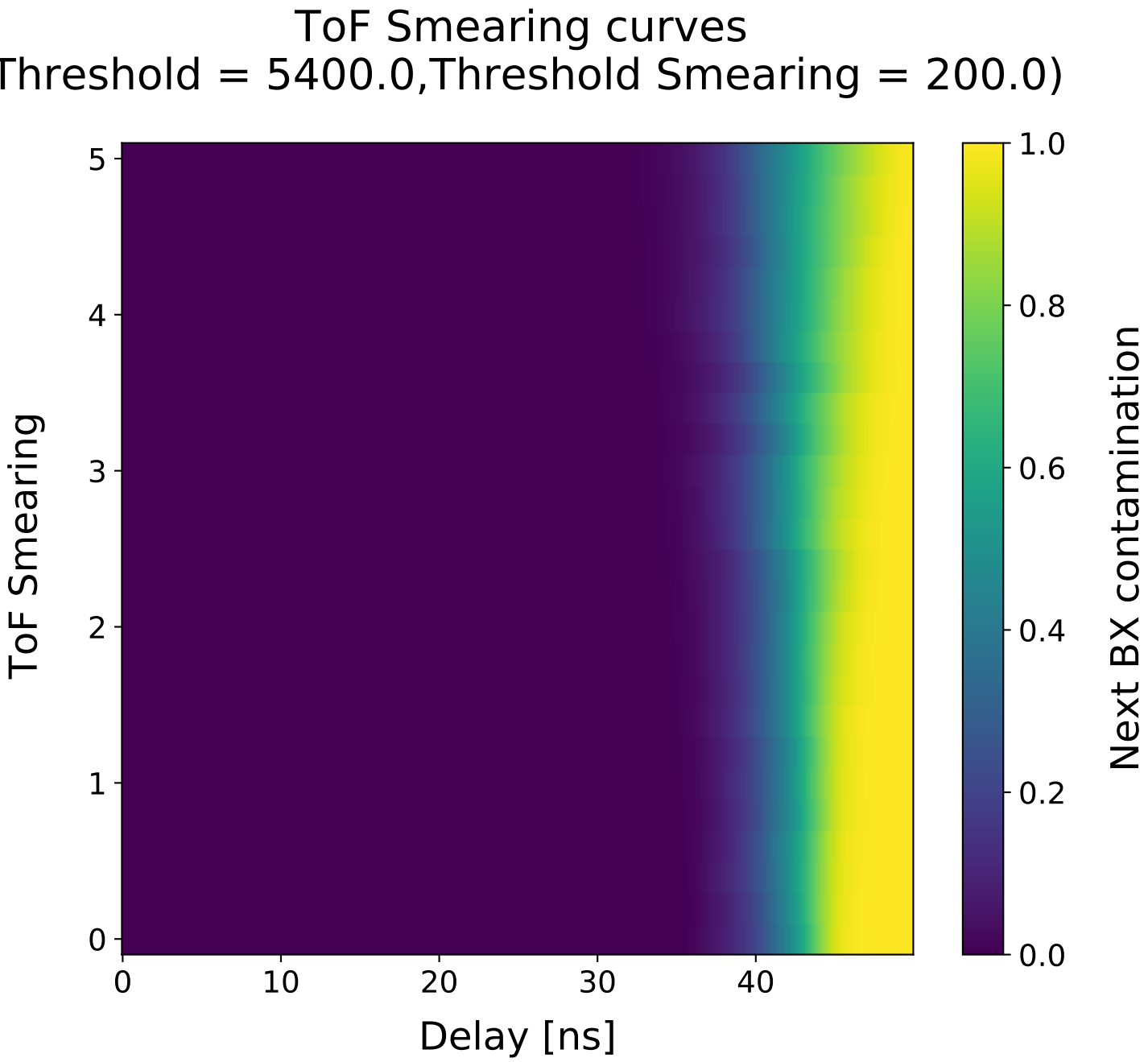

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

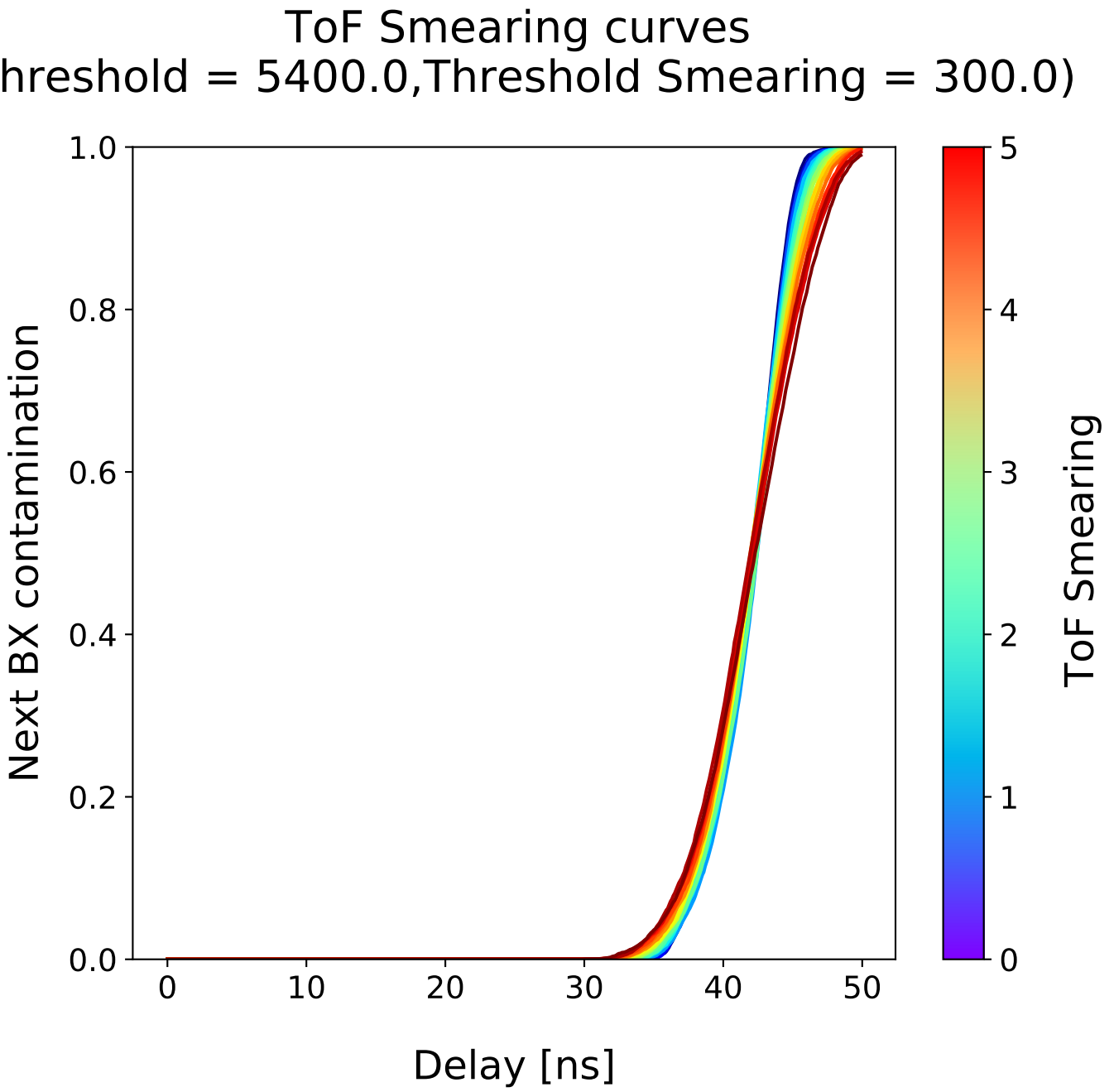

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

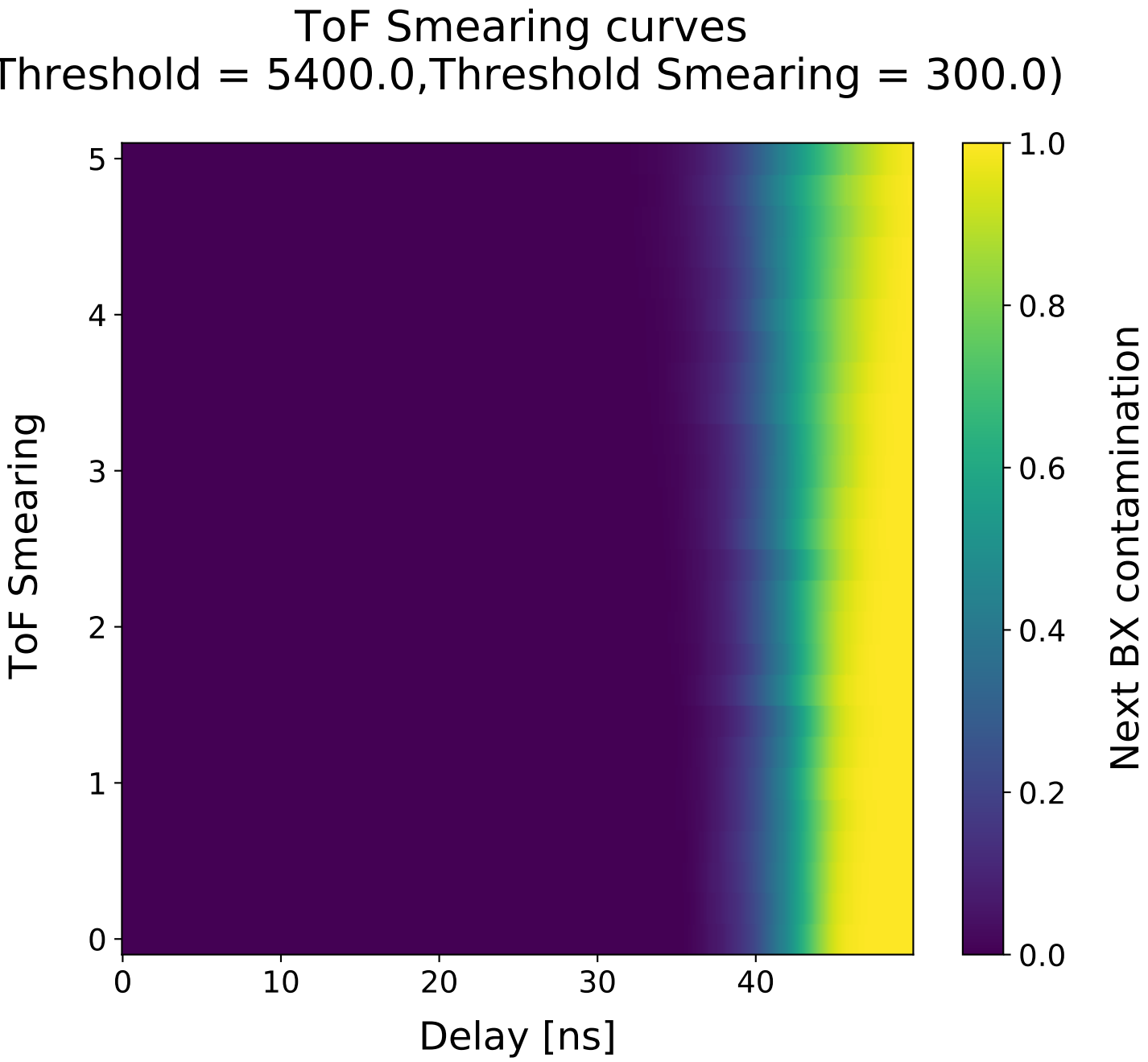

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

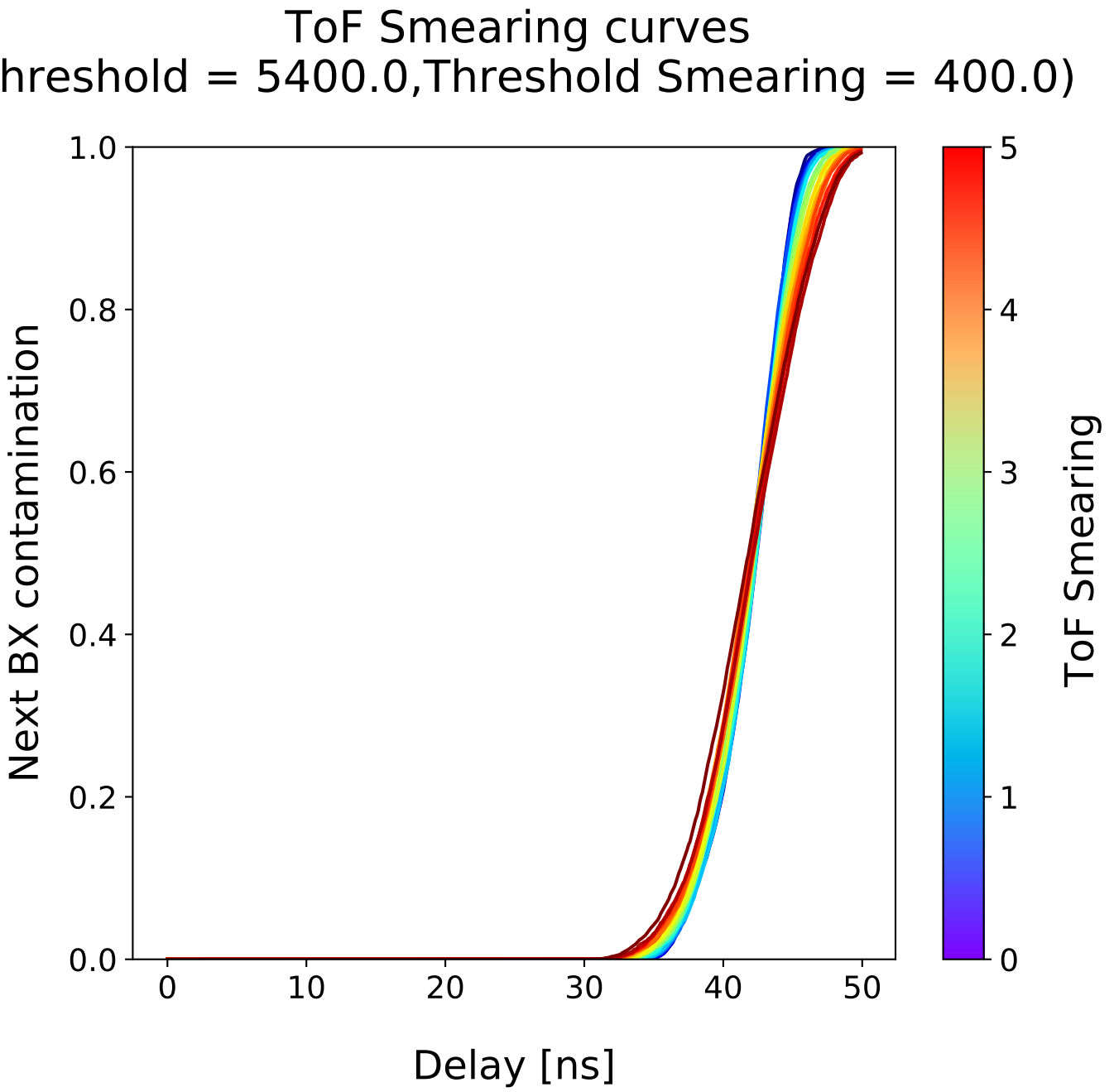

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

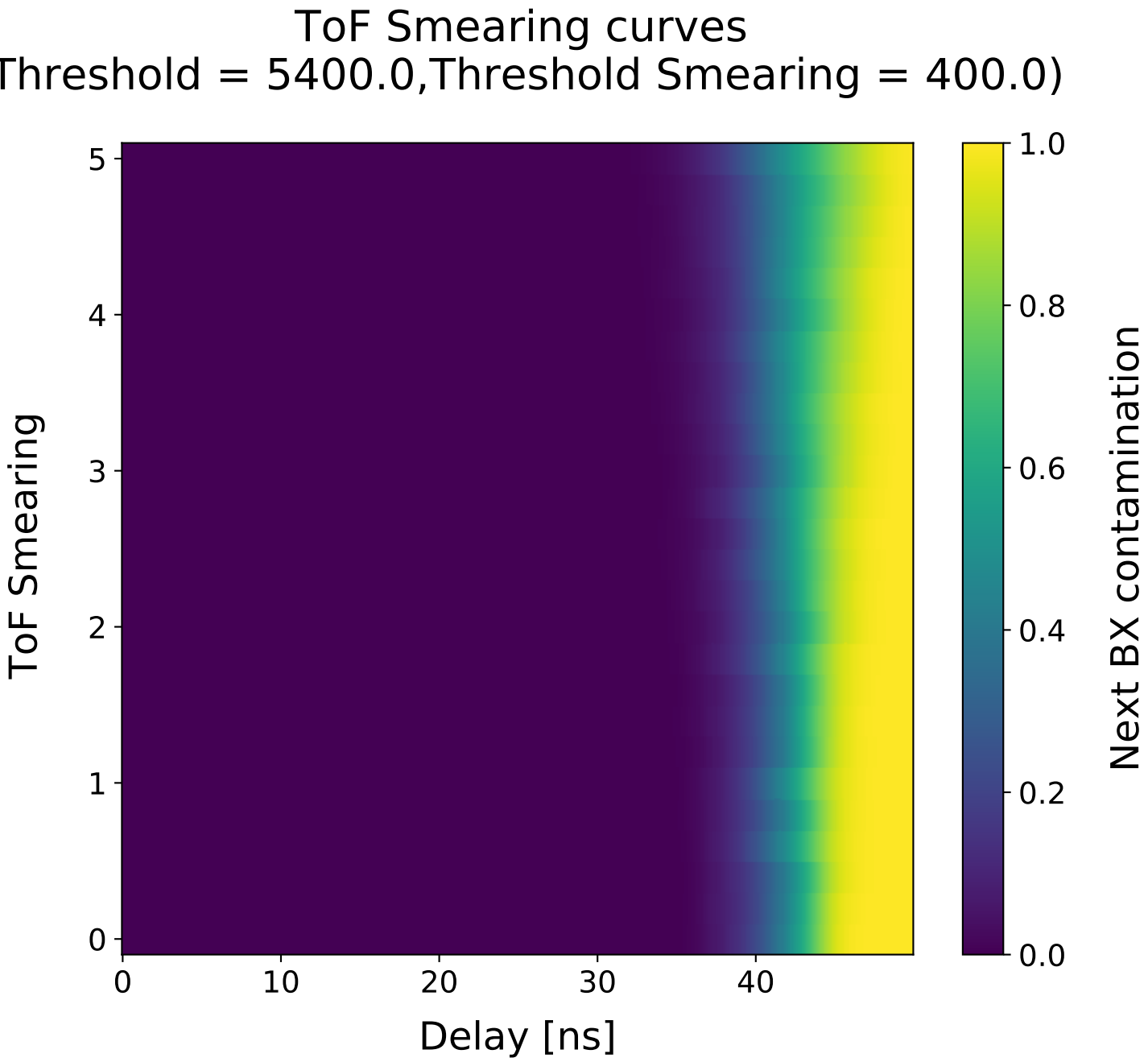

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

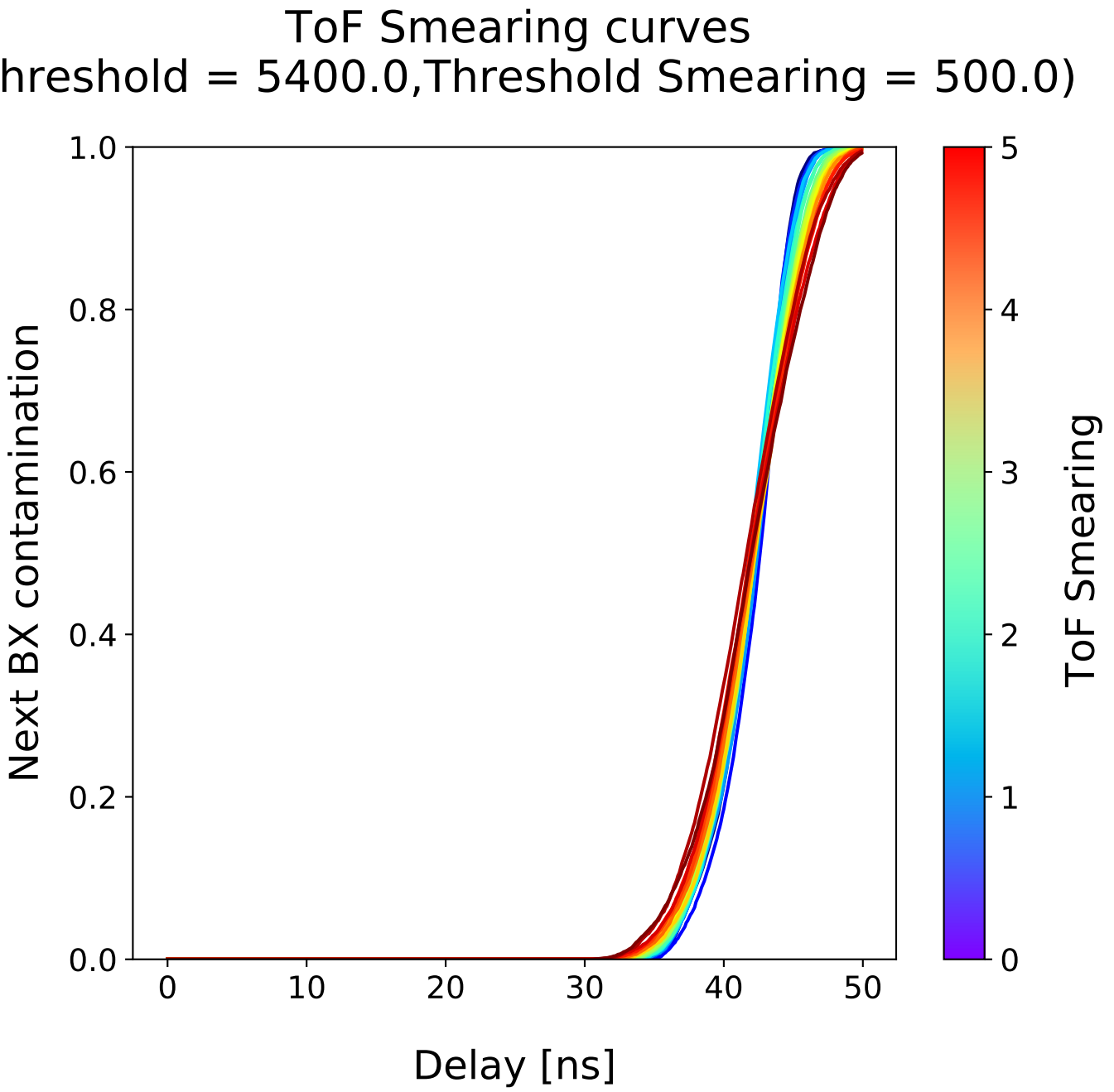

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

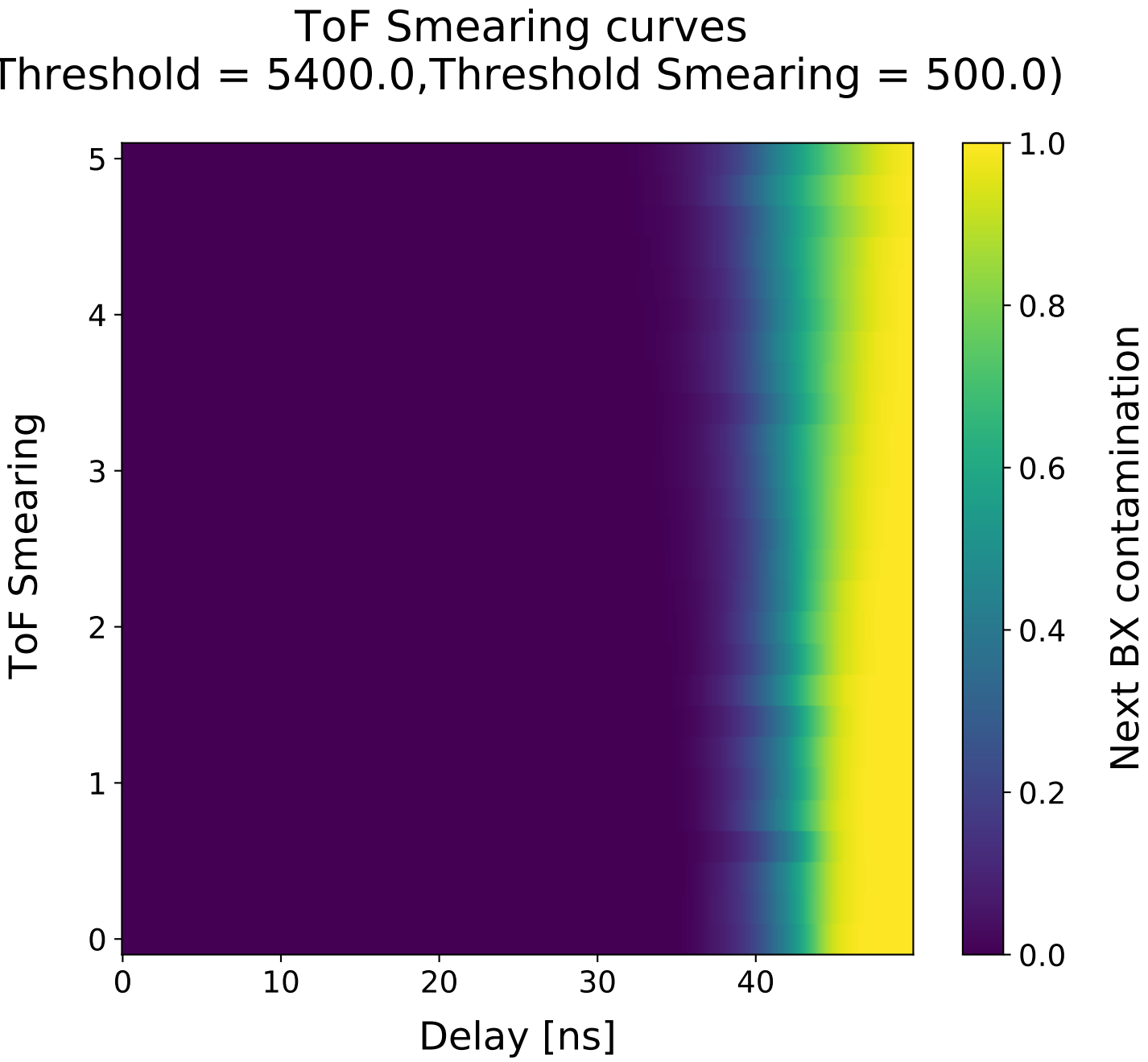

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

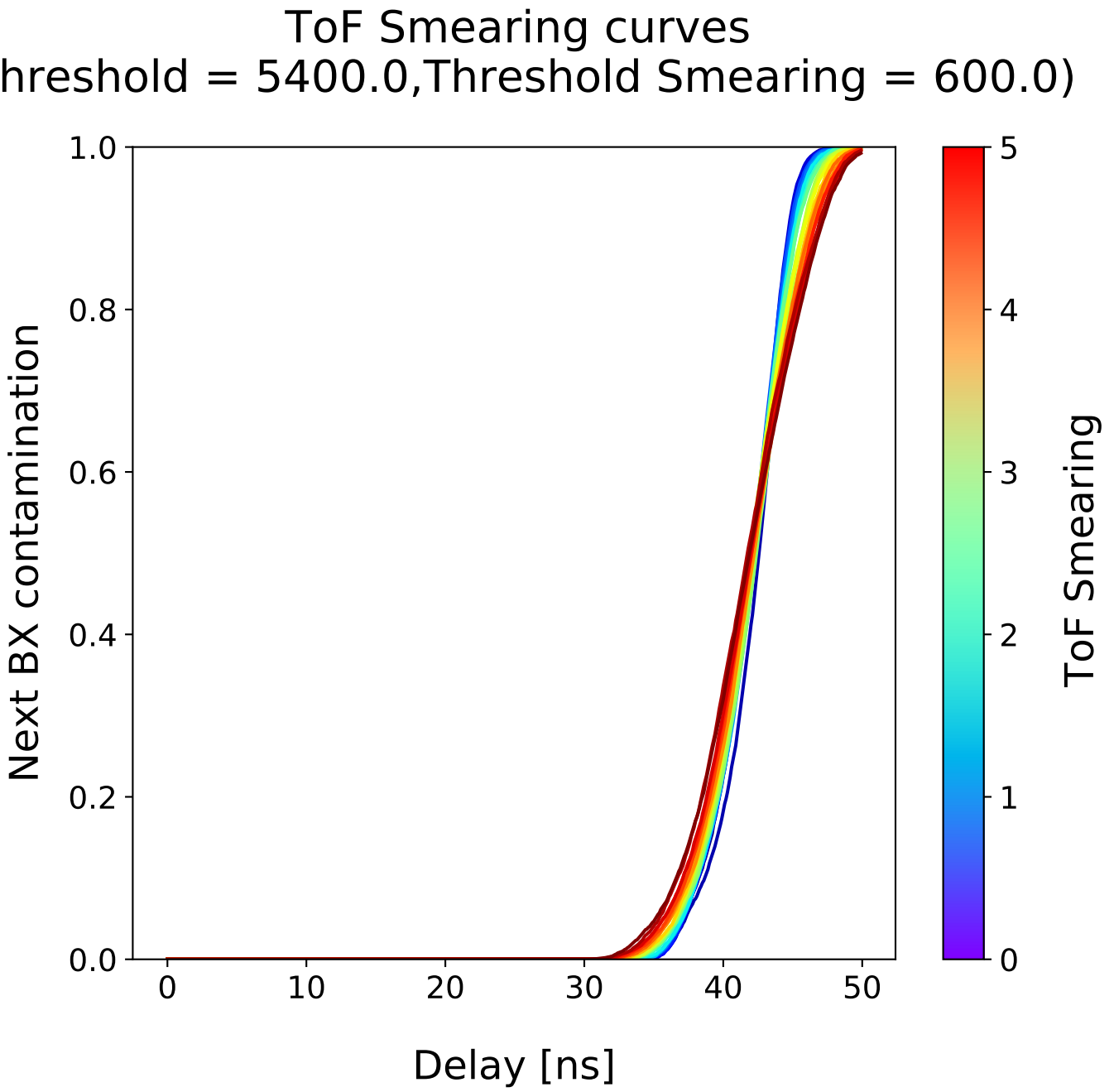

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

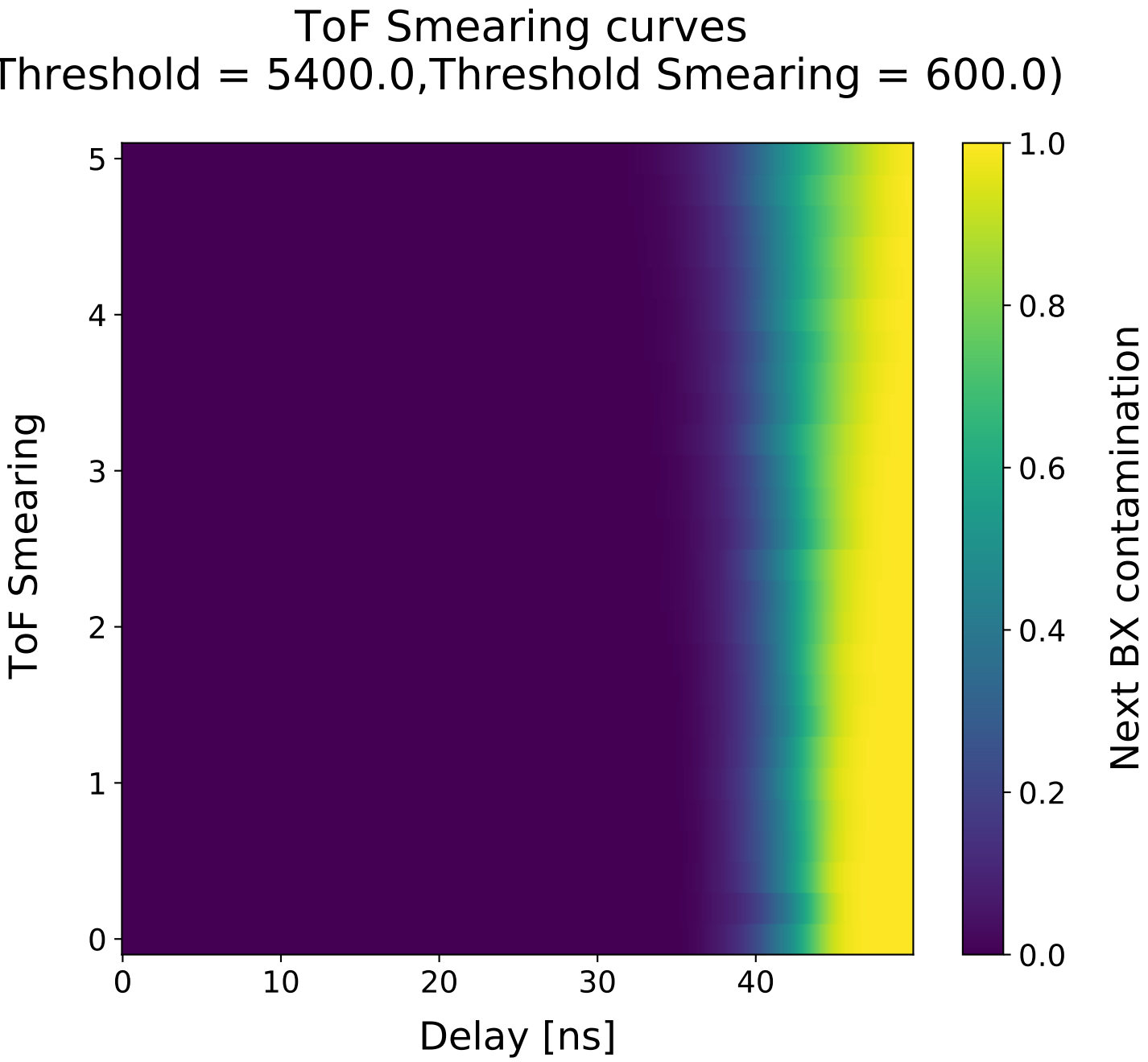

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

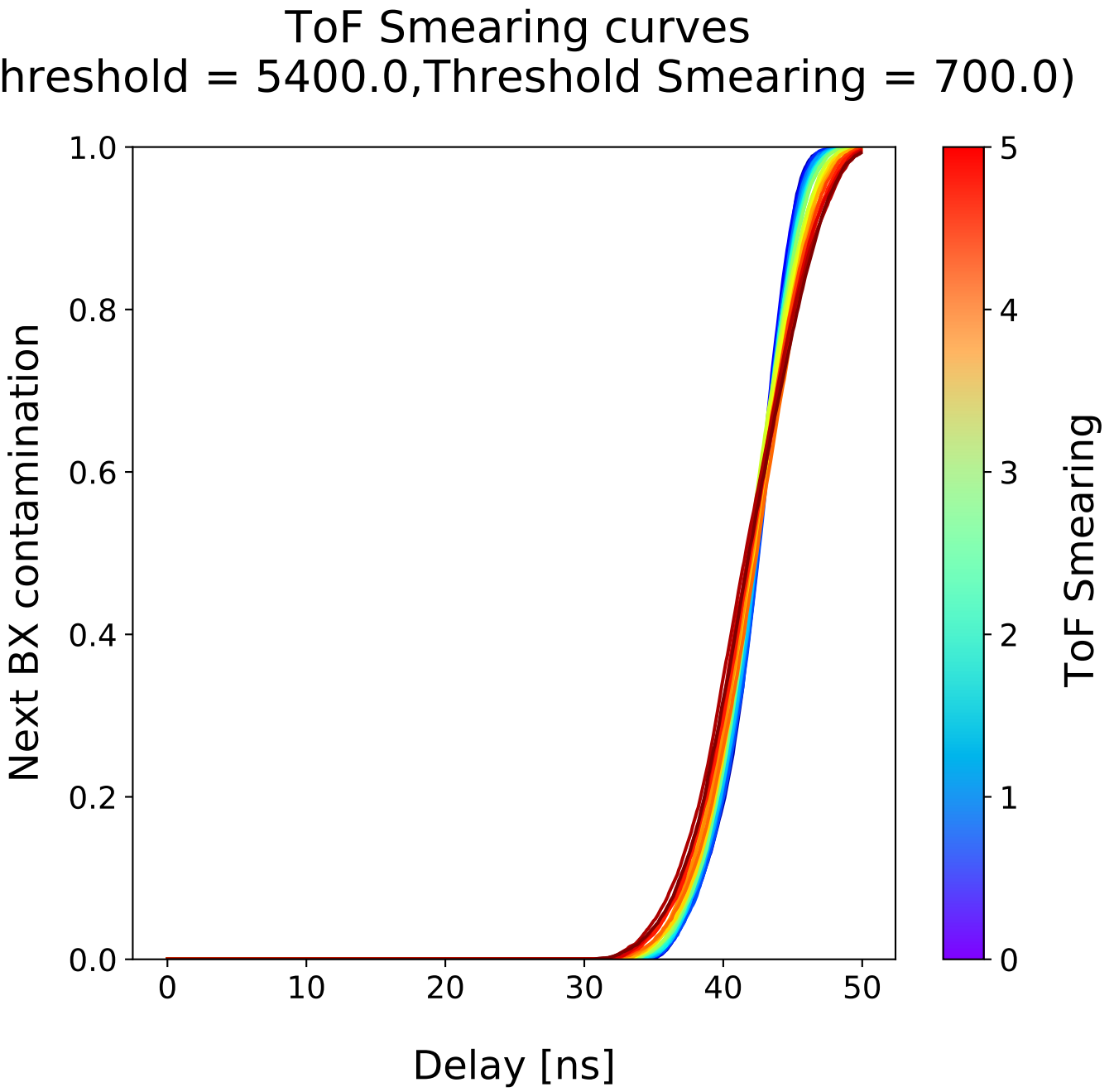

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

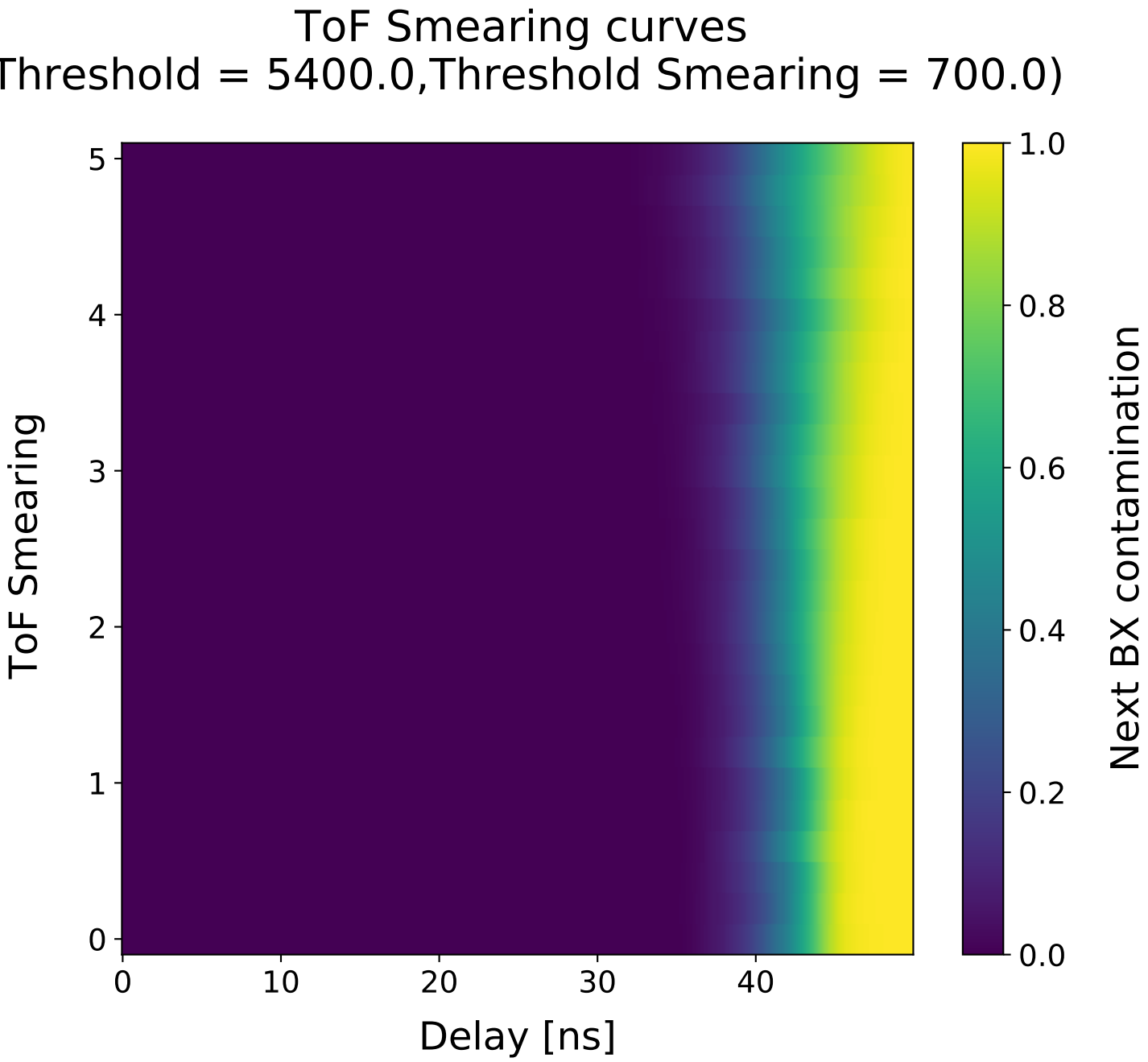

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

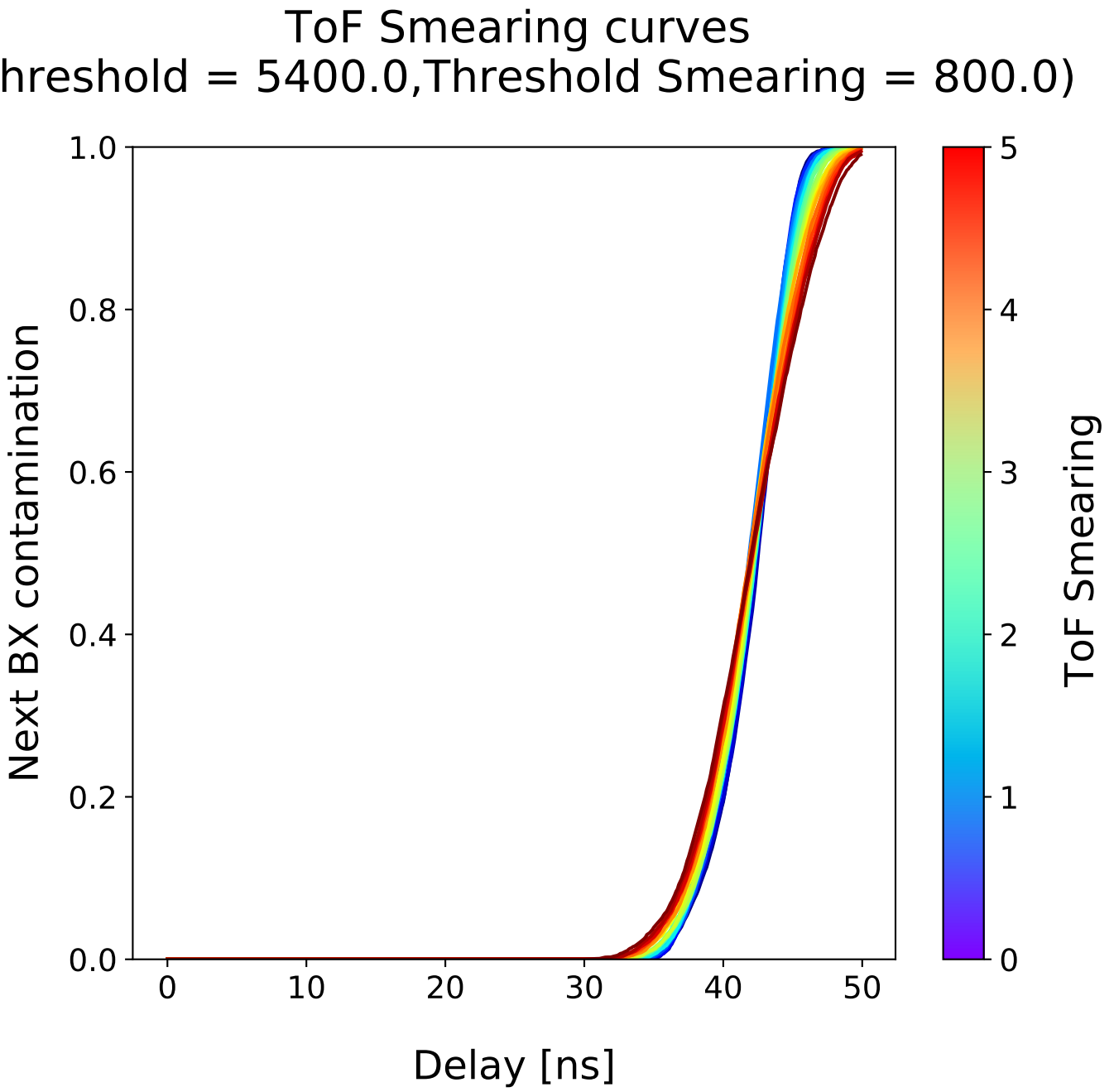

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

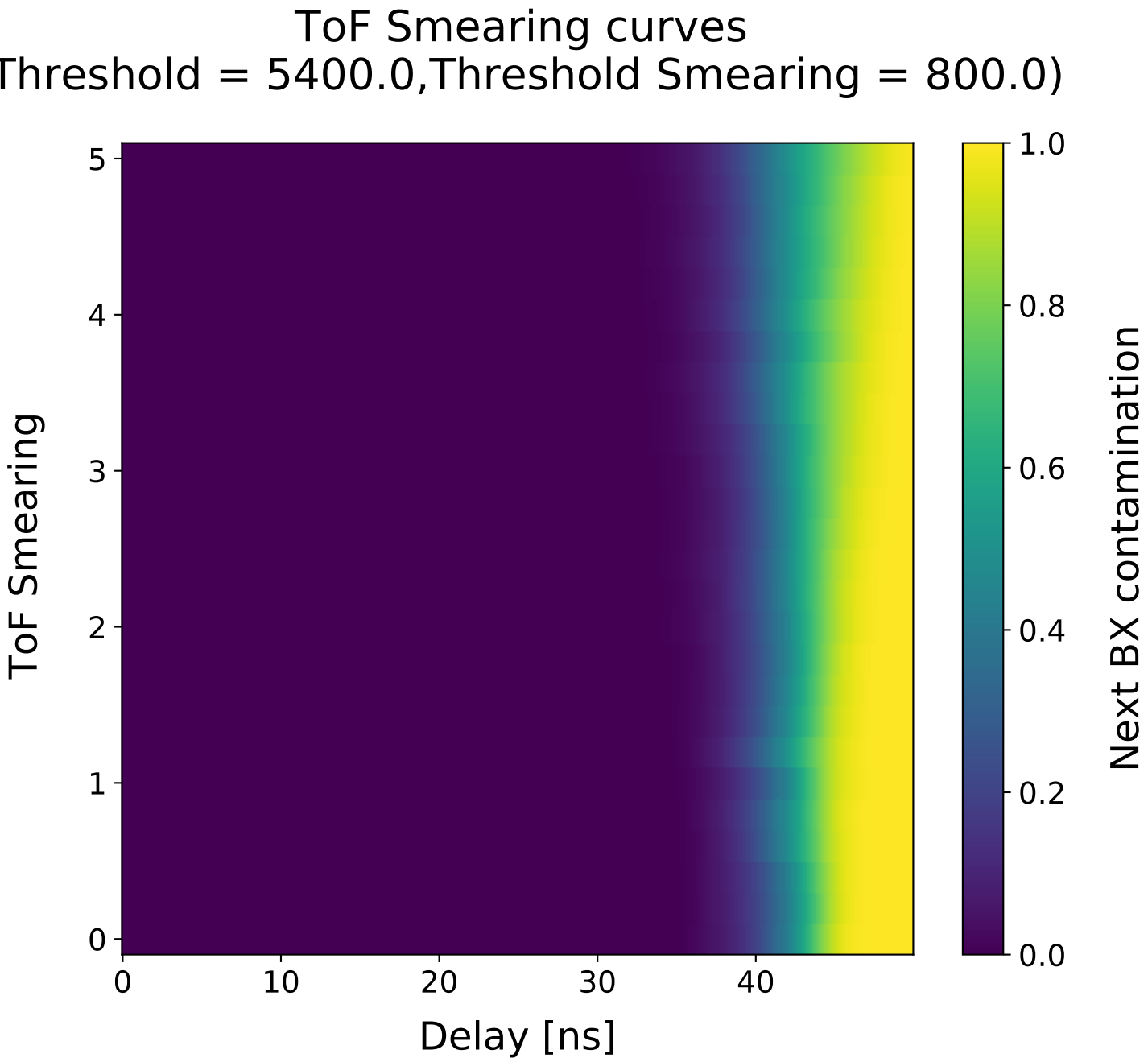

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

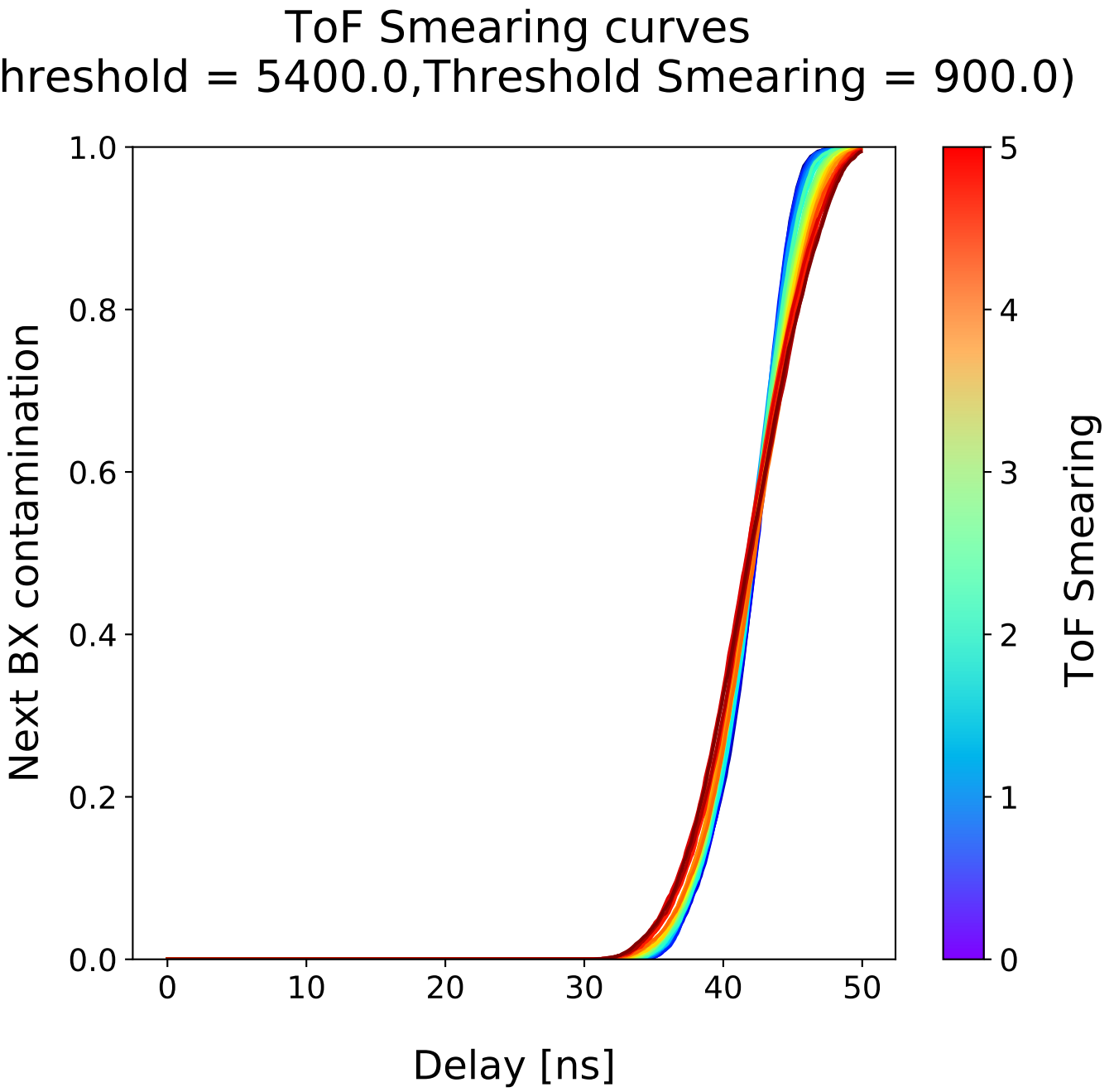

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

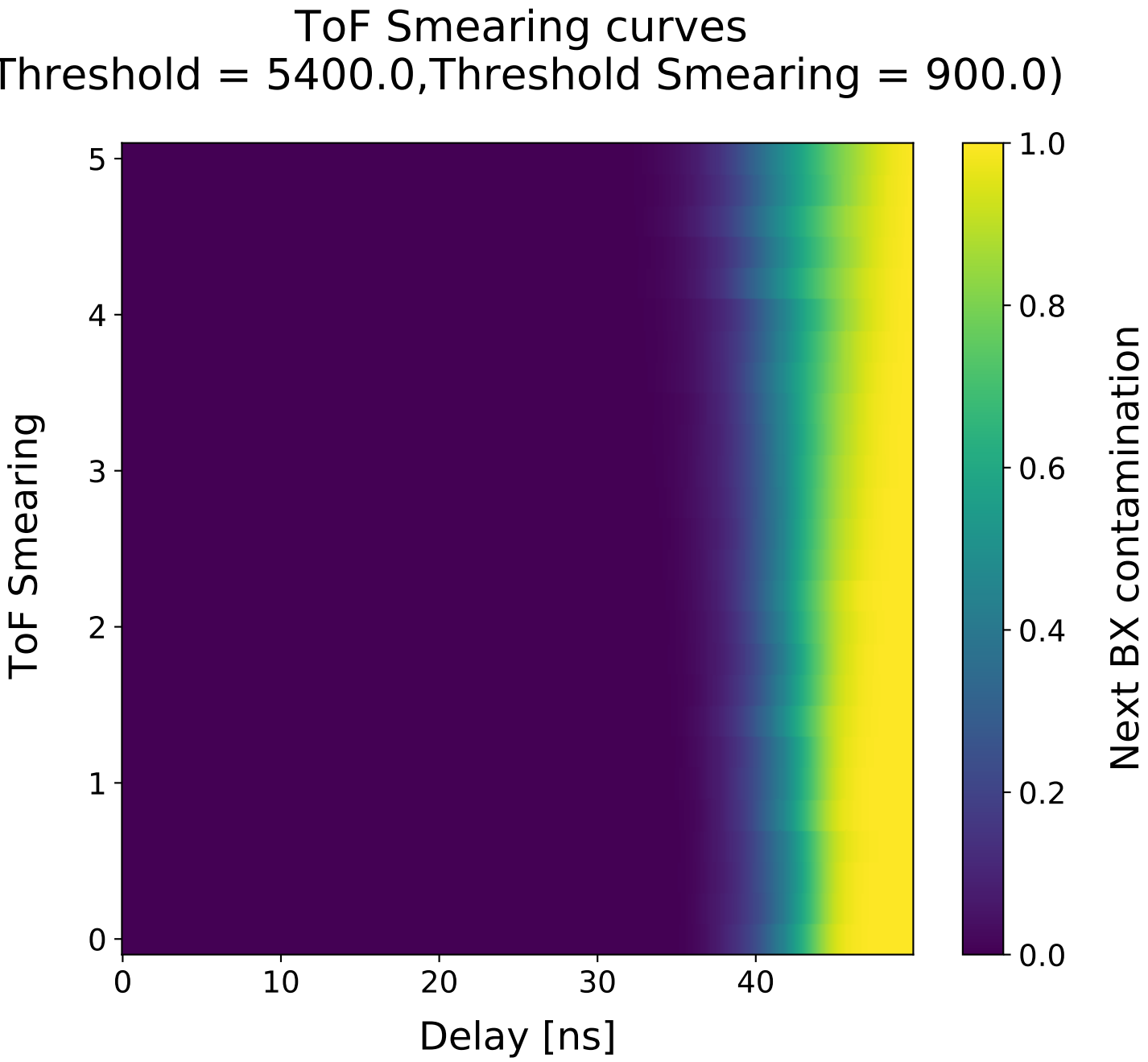

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

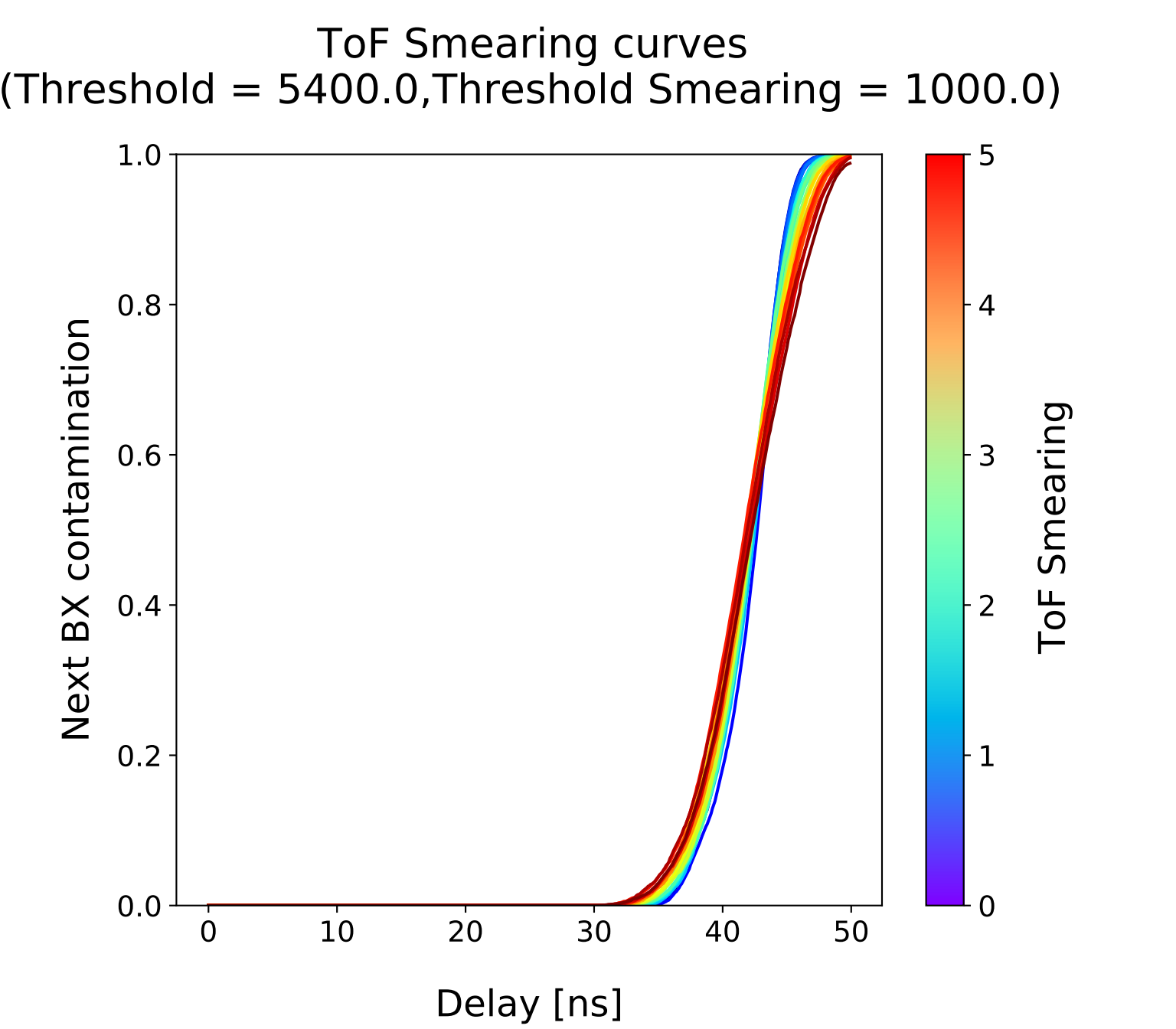

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

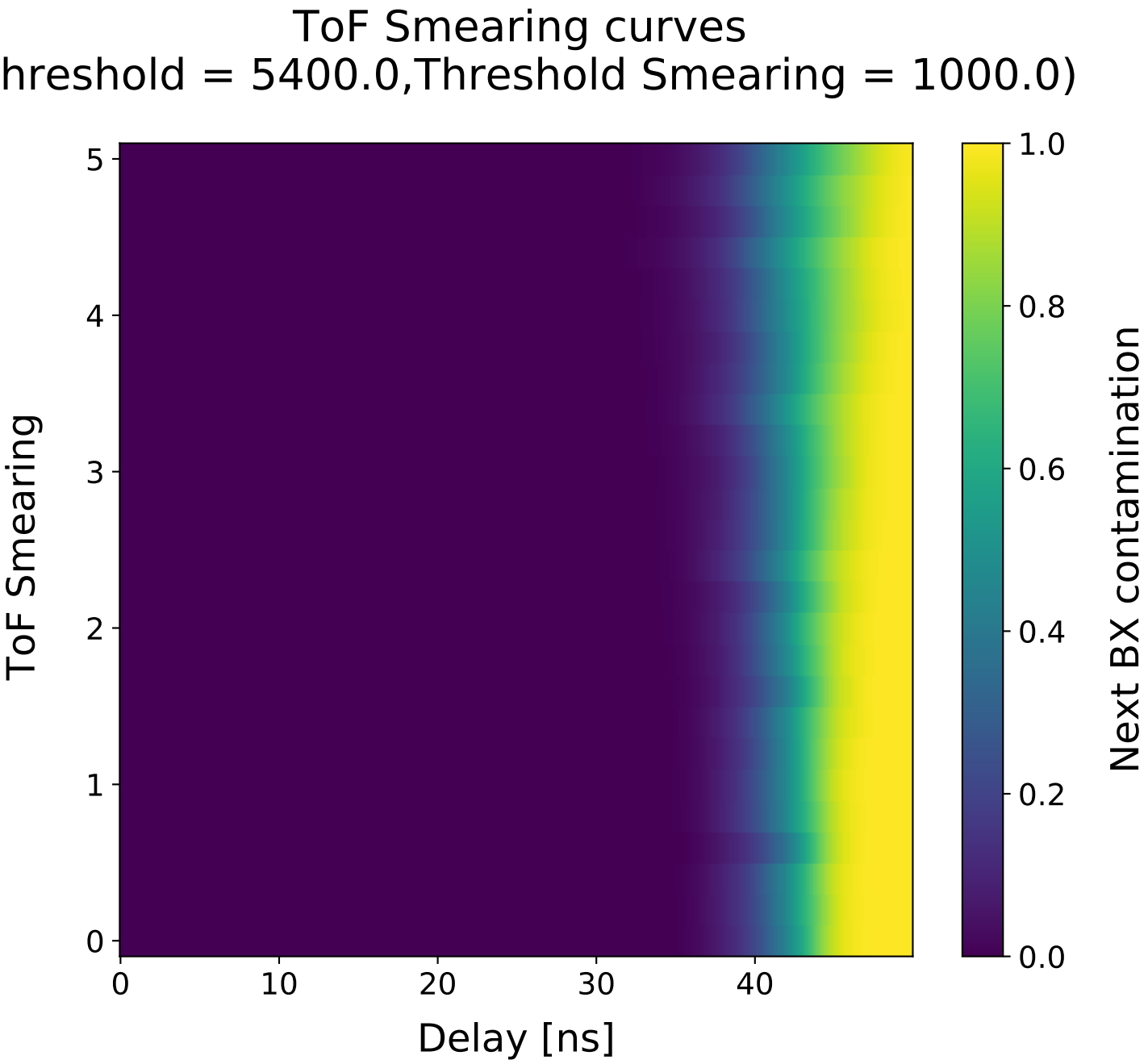

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

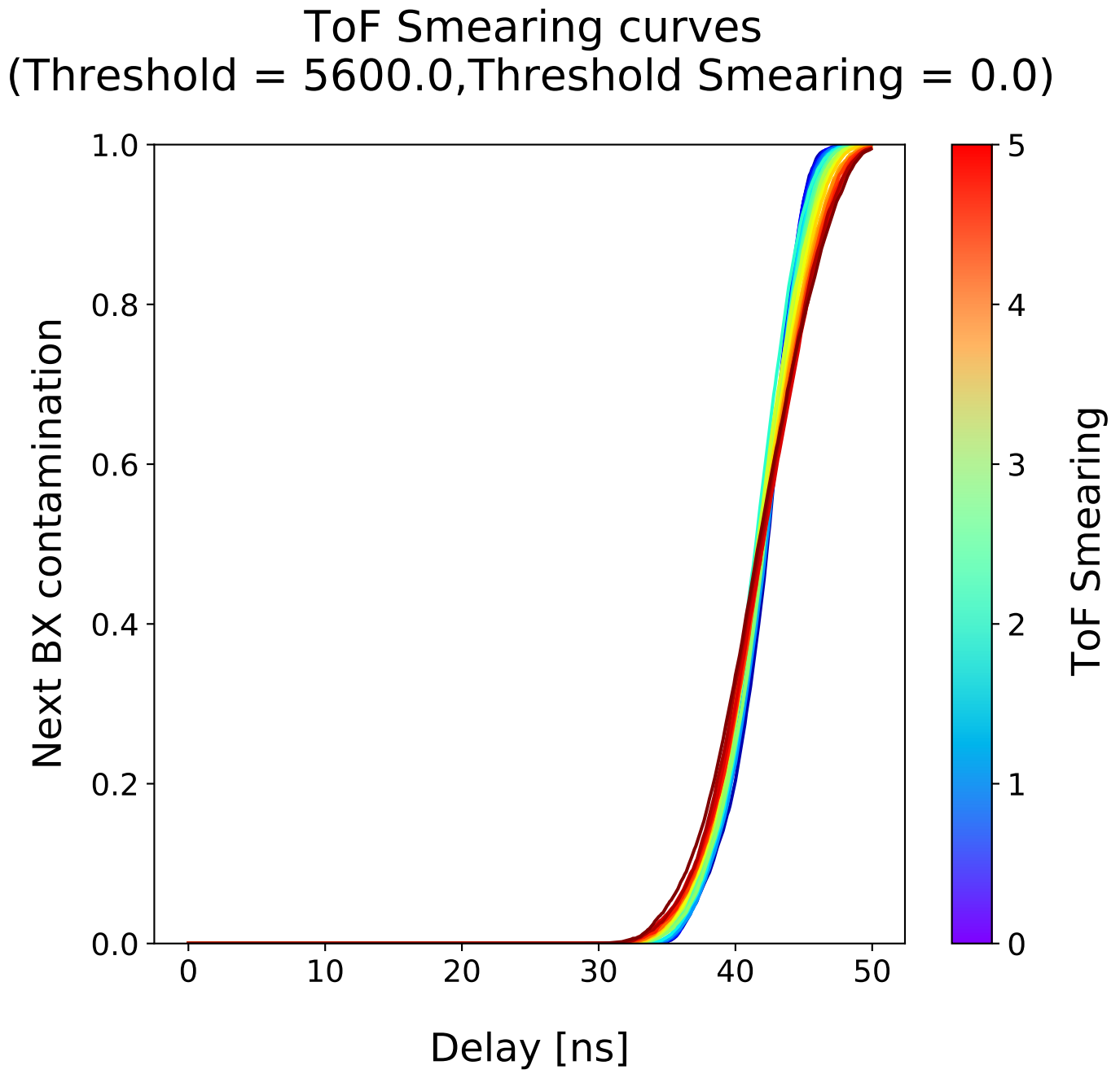

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

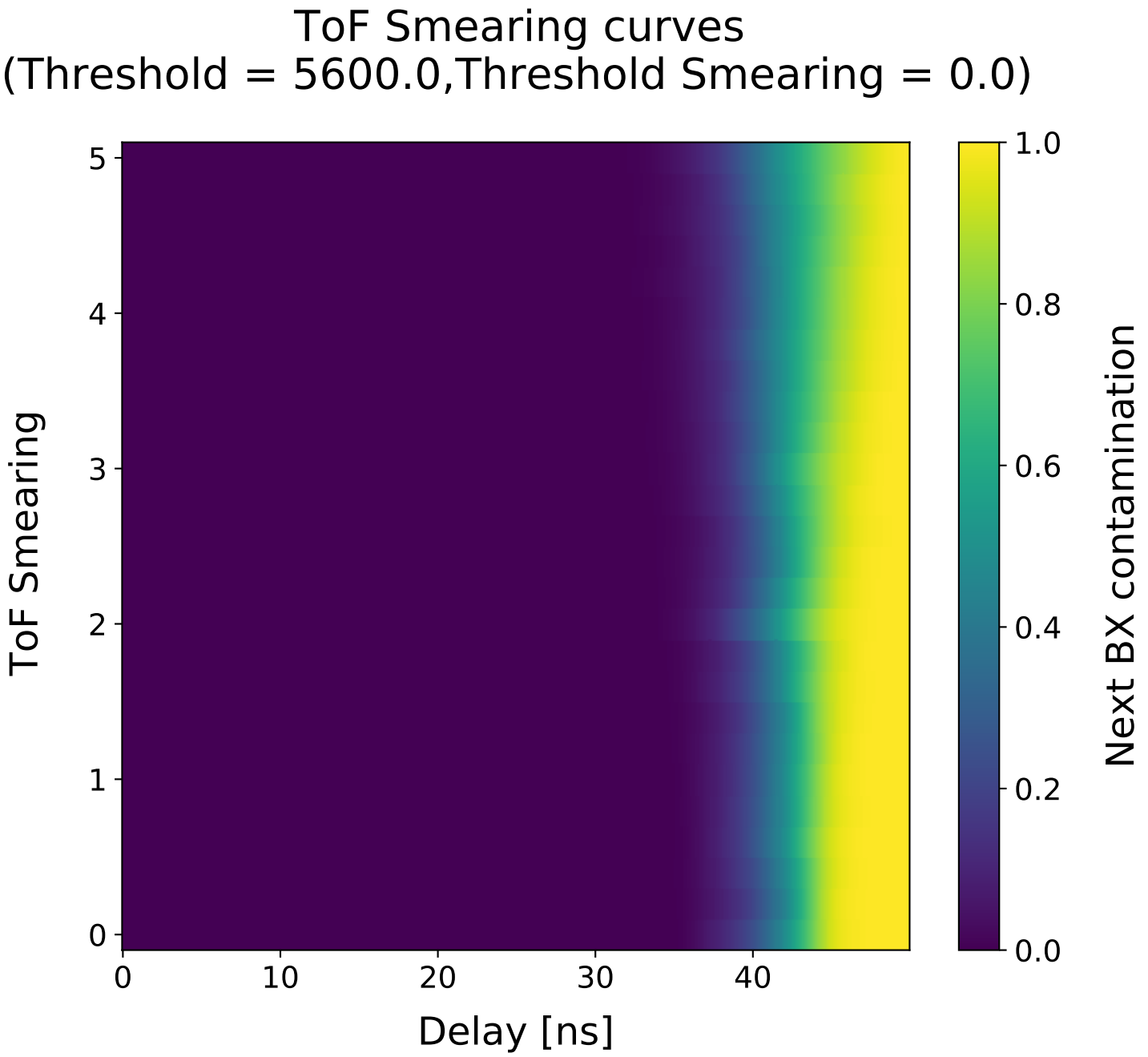

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

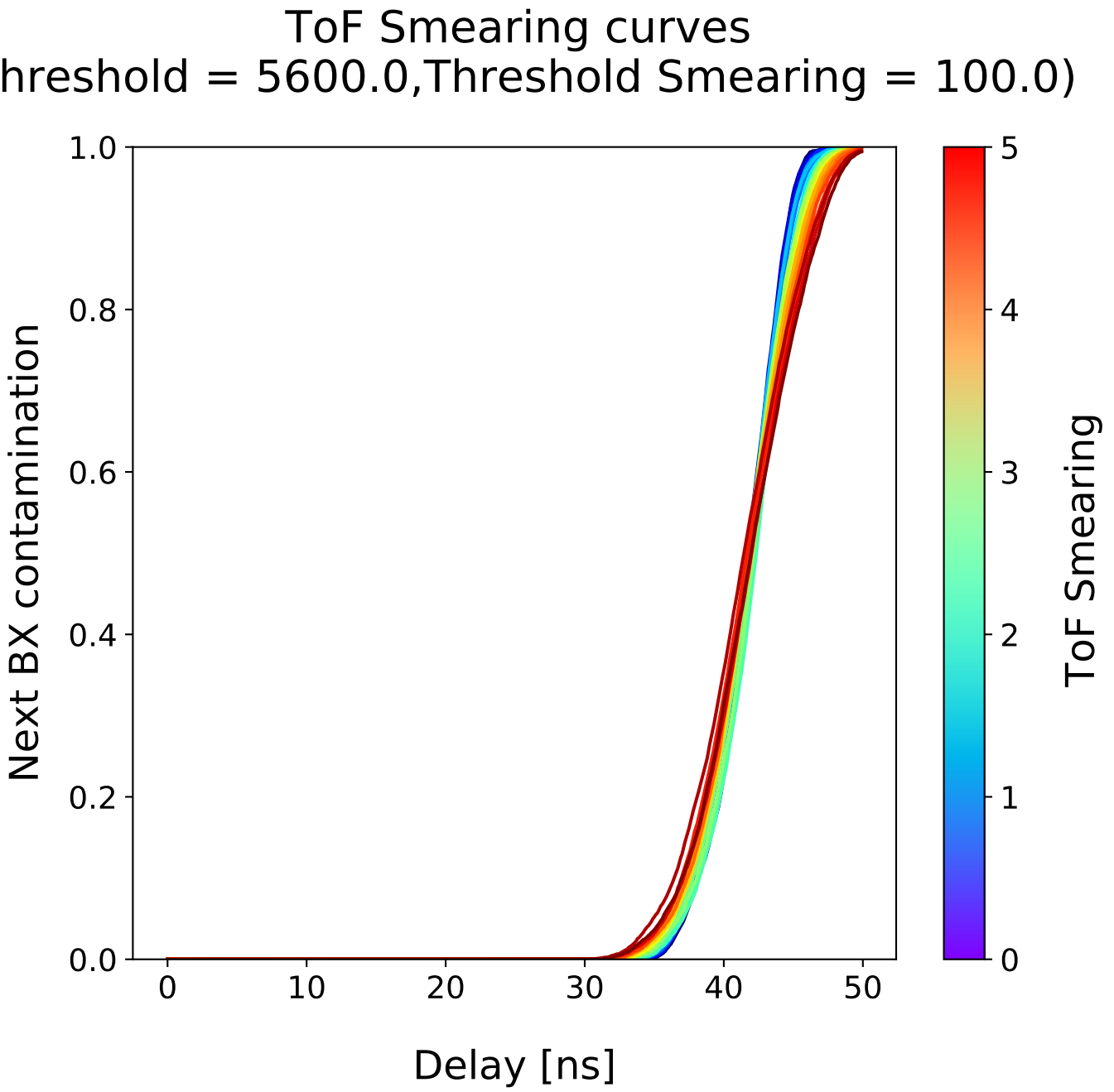

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

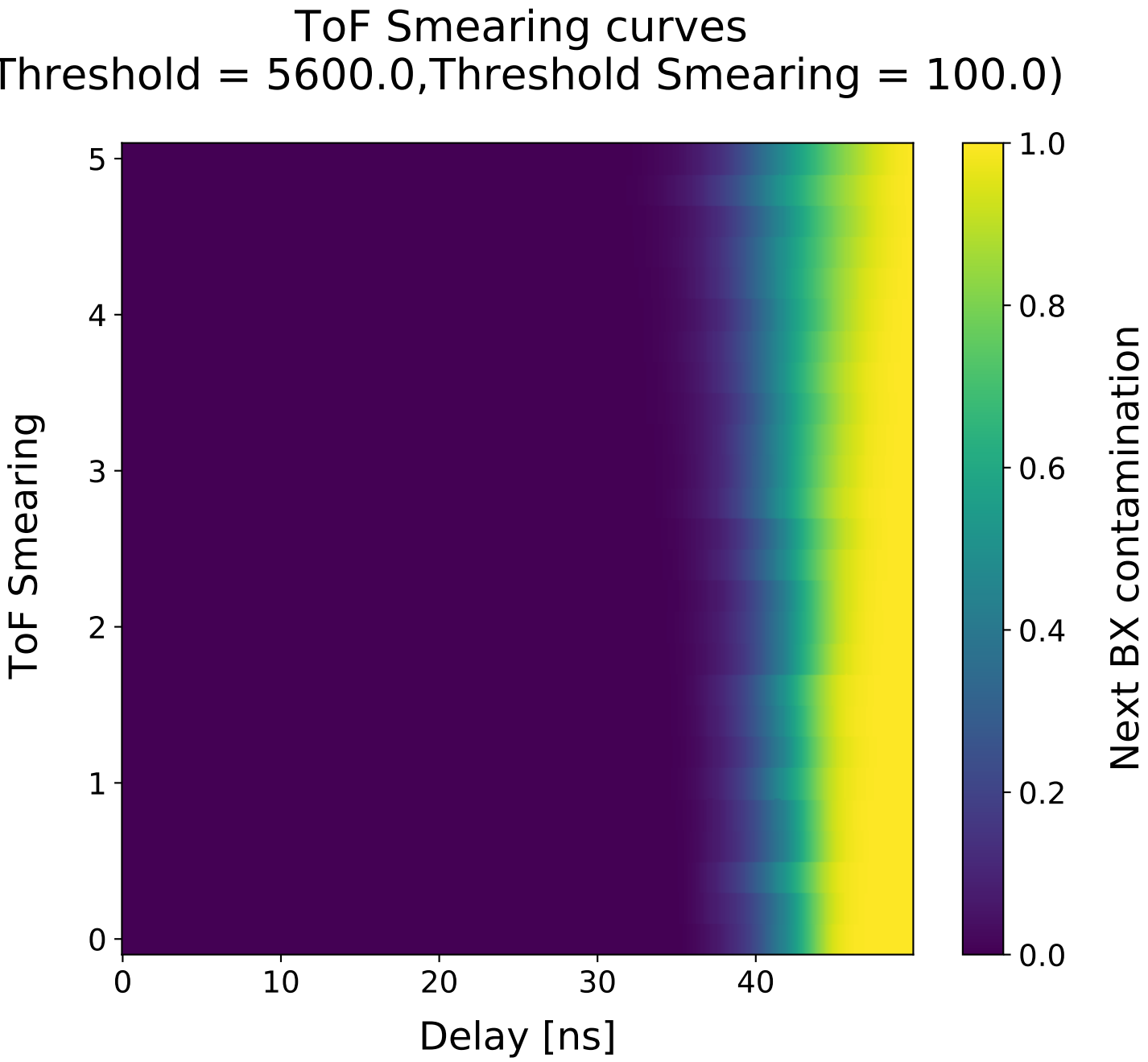

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

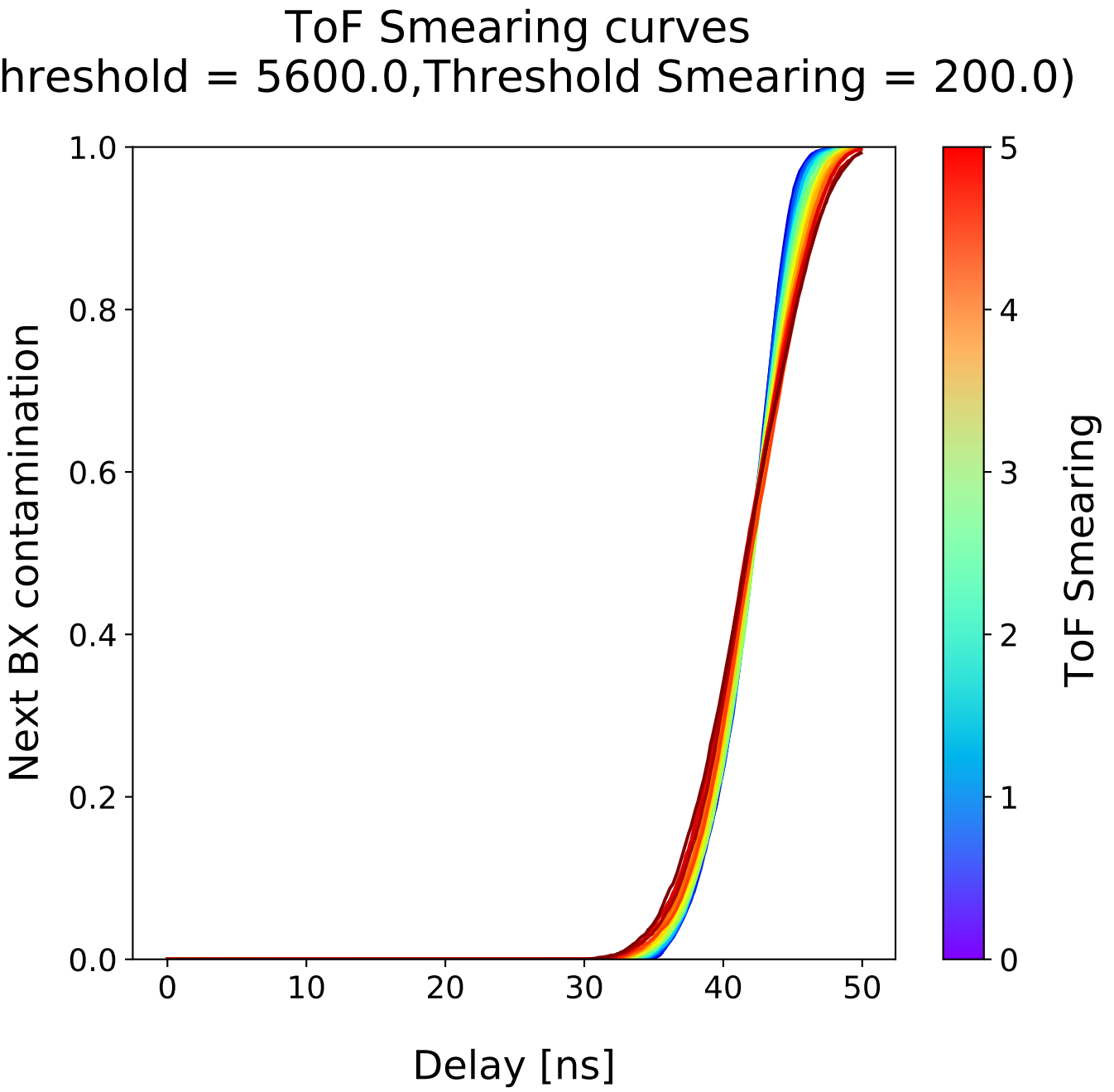

ToF Smearing curves
(Threshold = 5400.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

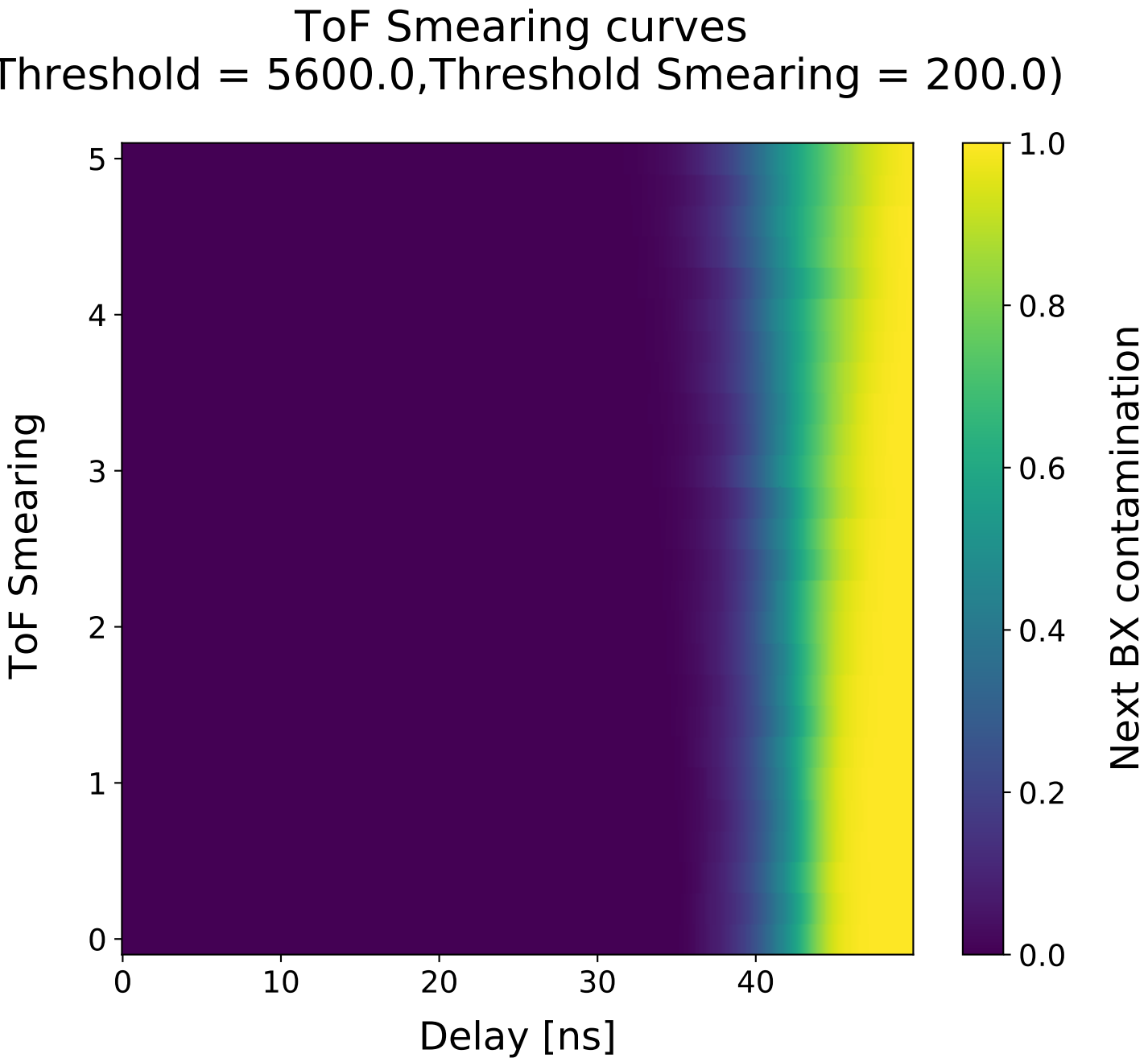

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

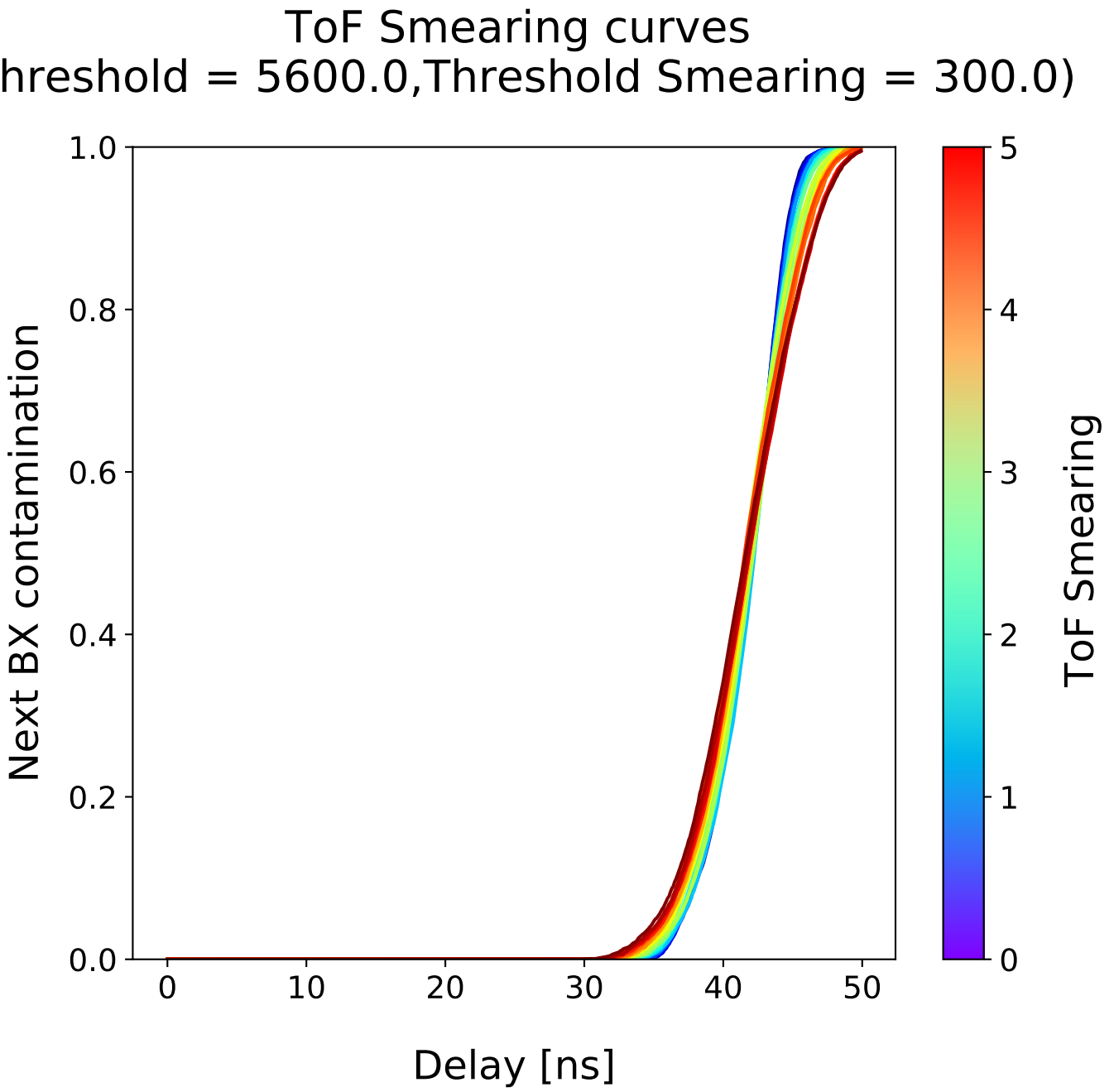

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

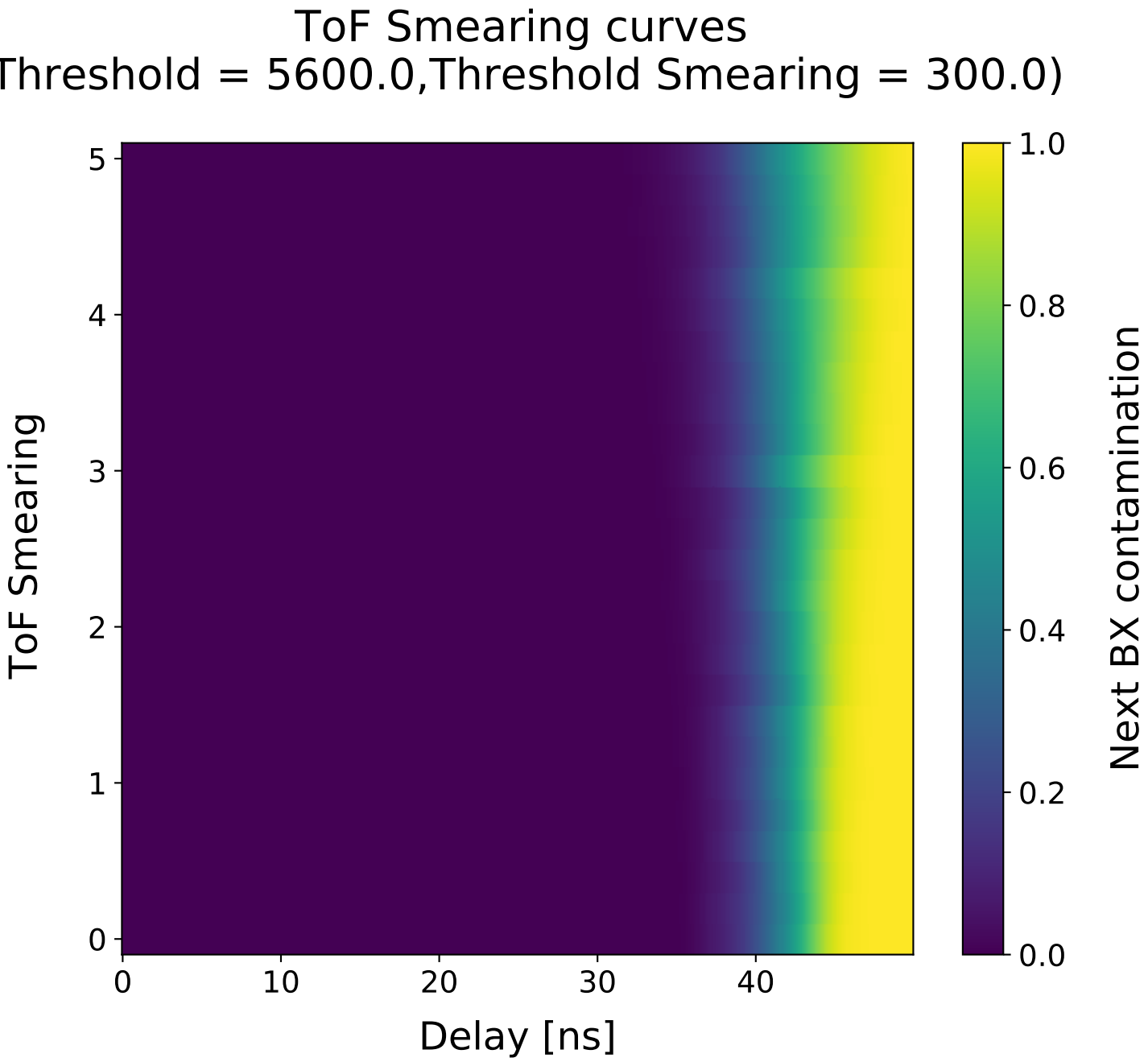

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

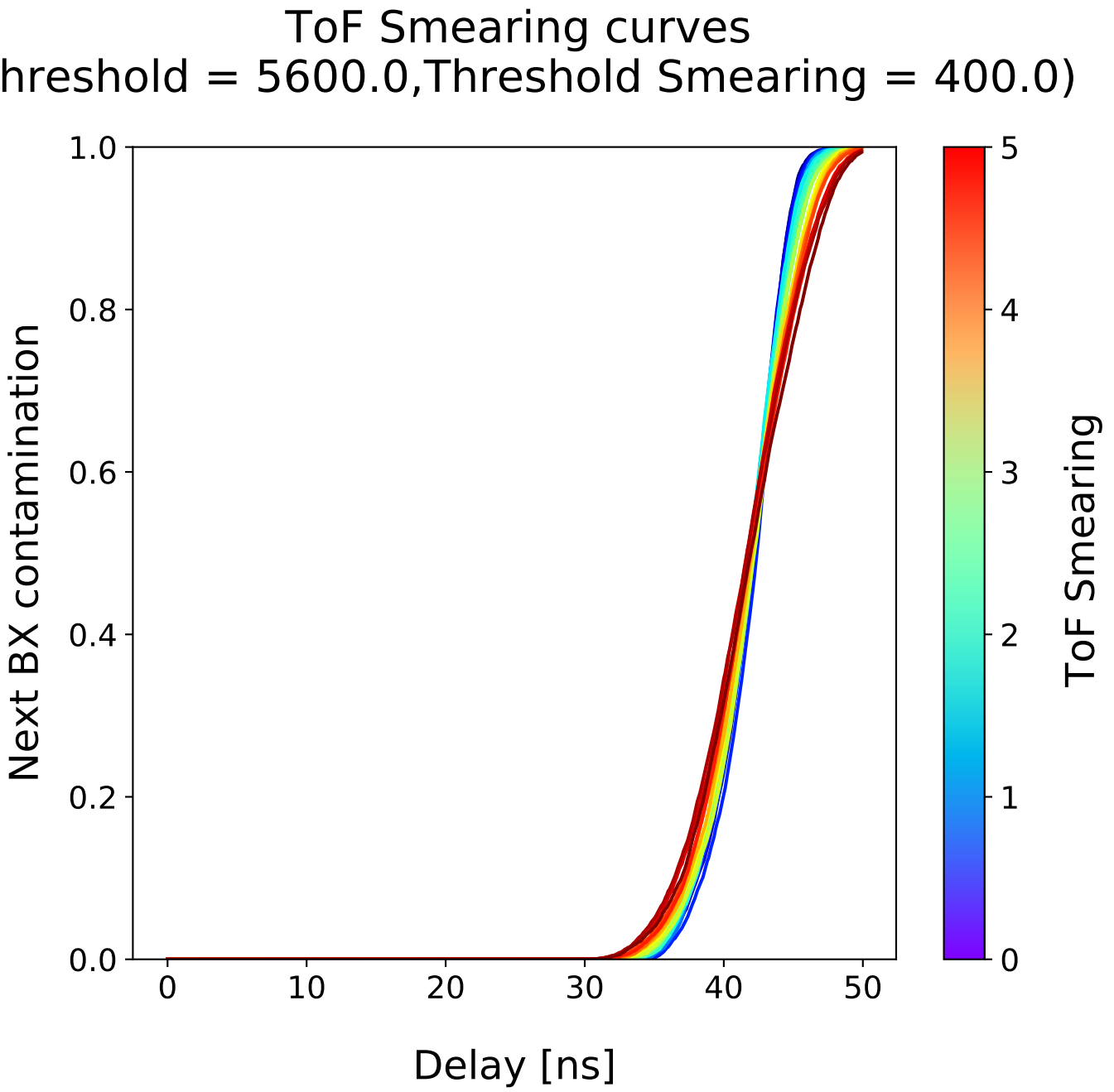

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

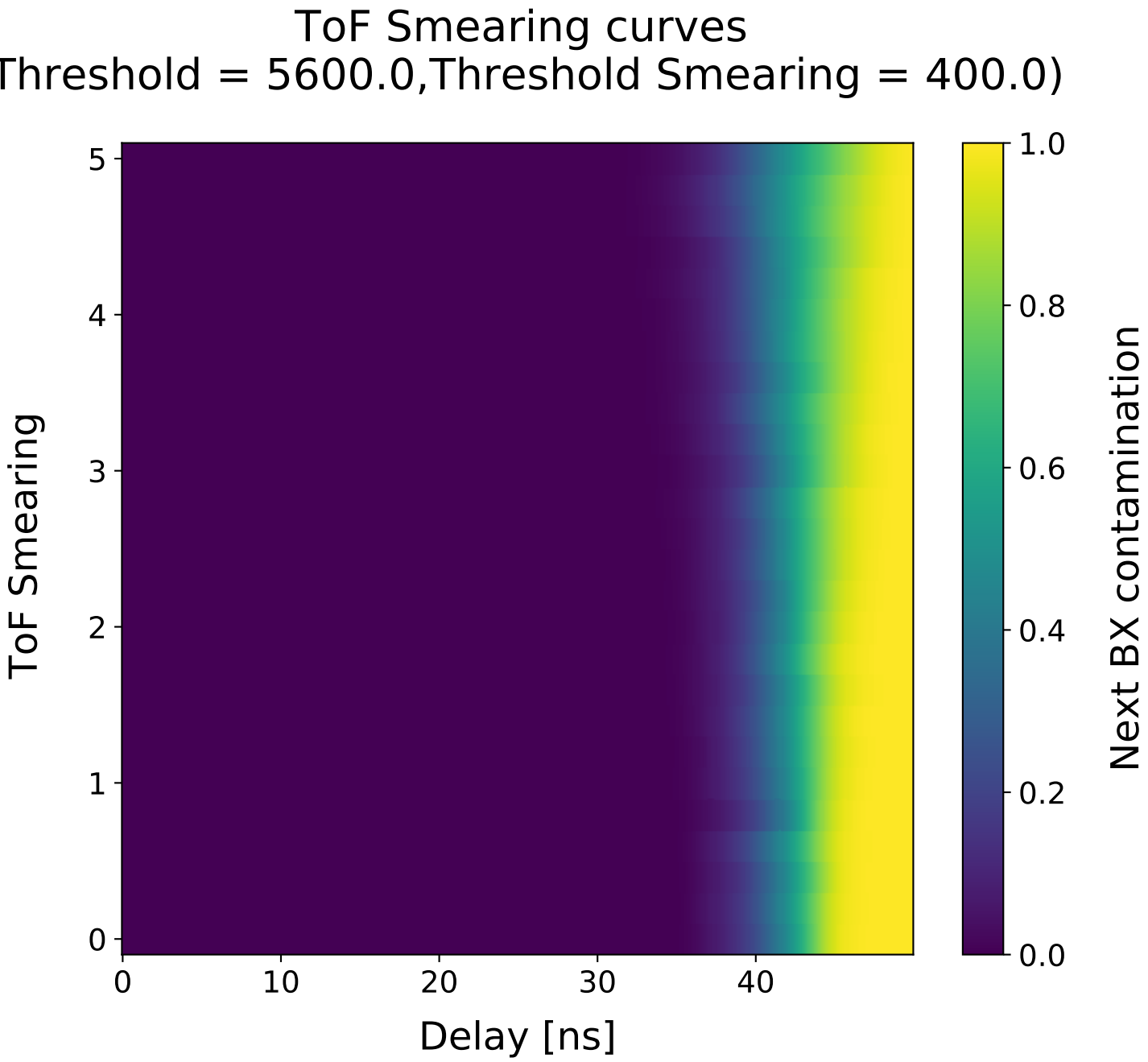

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

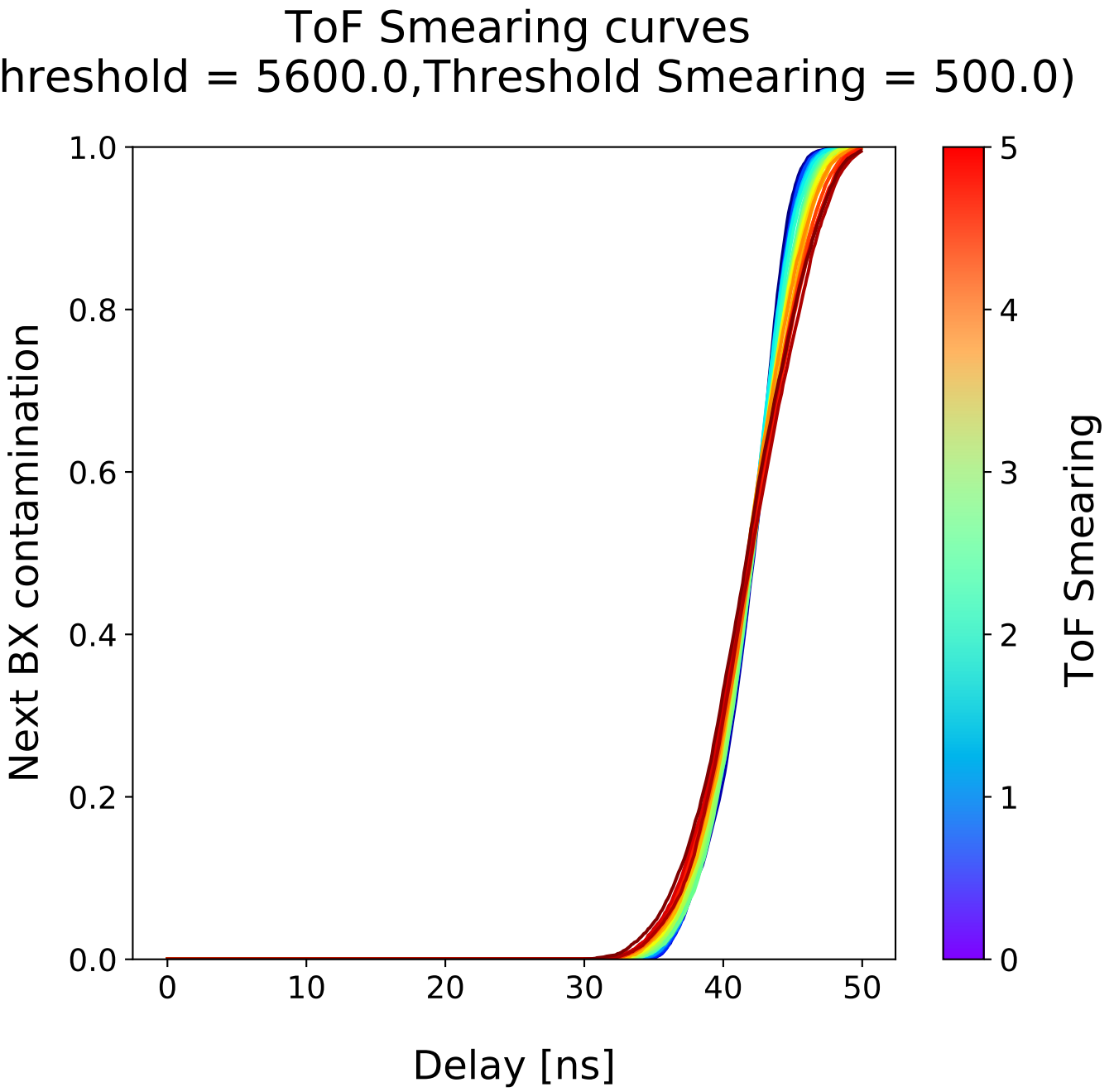

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

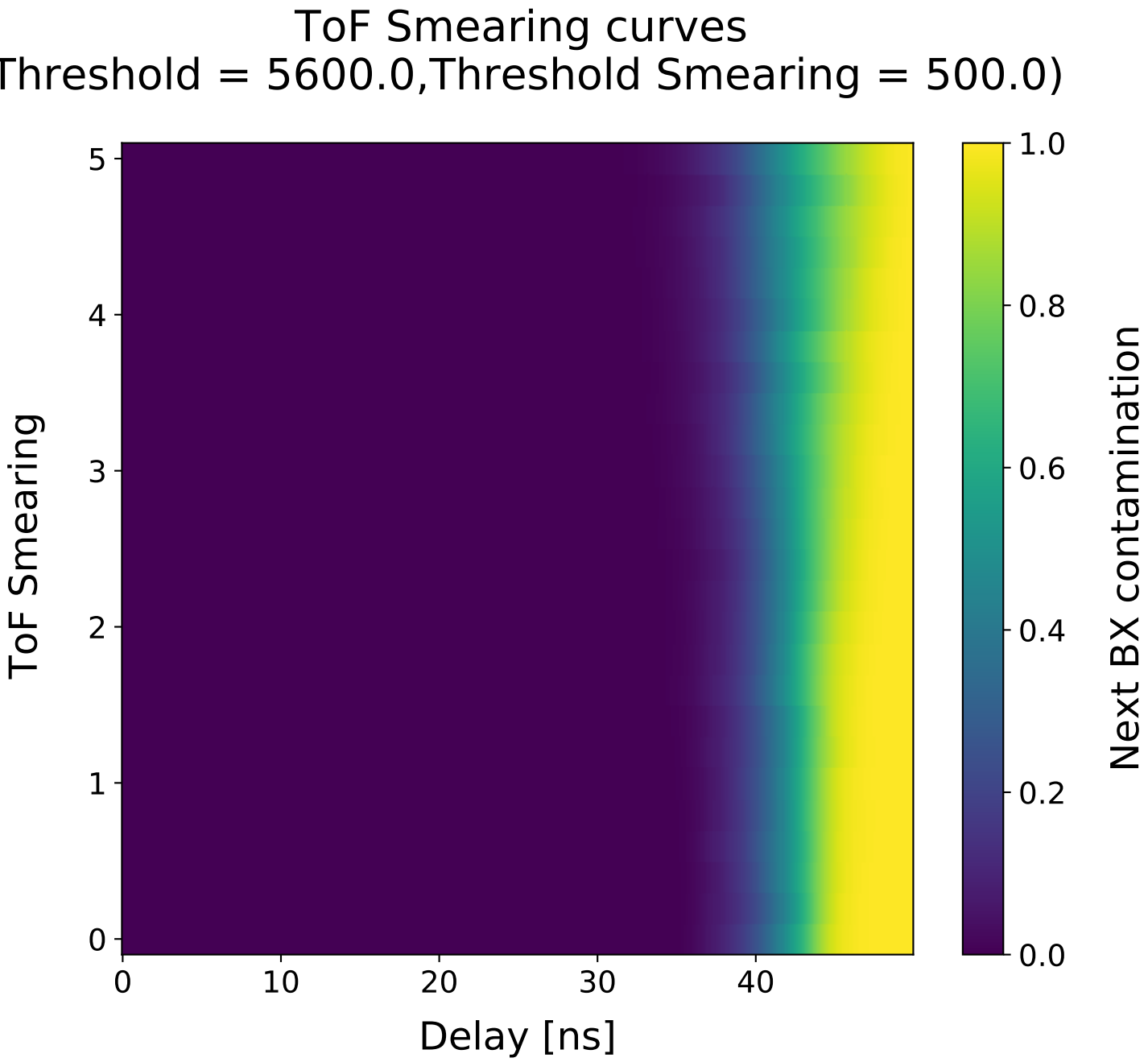

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

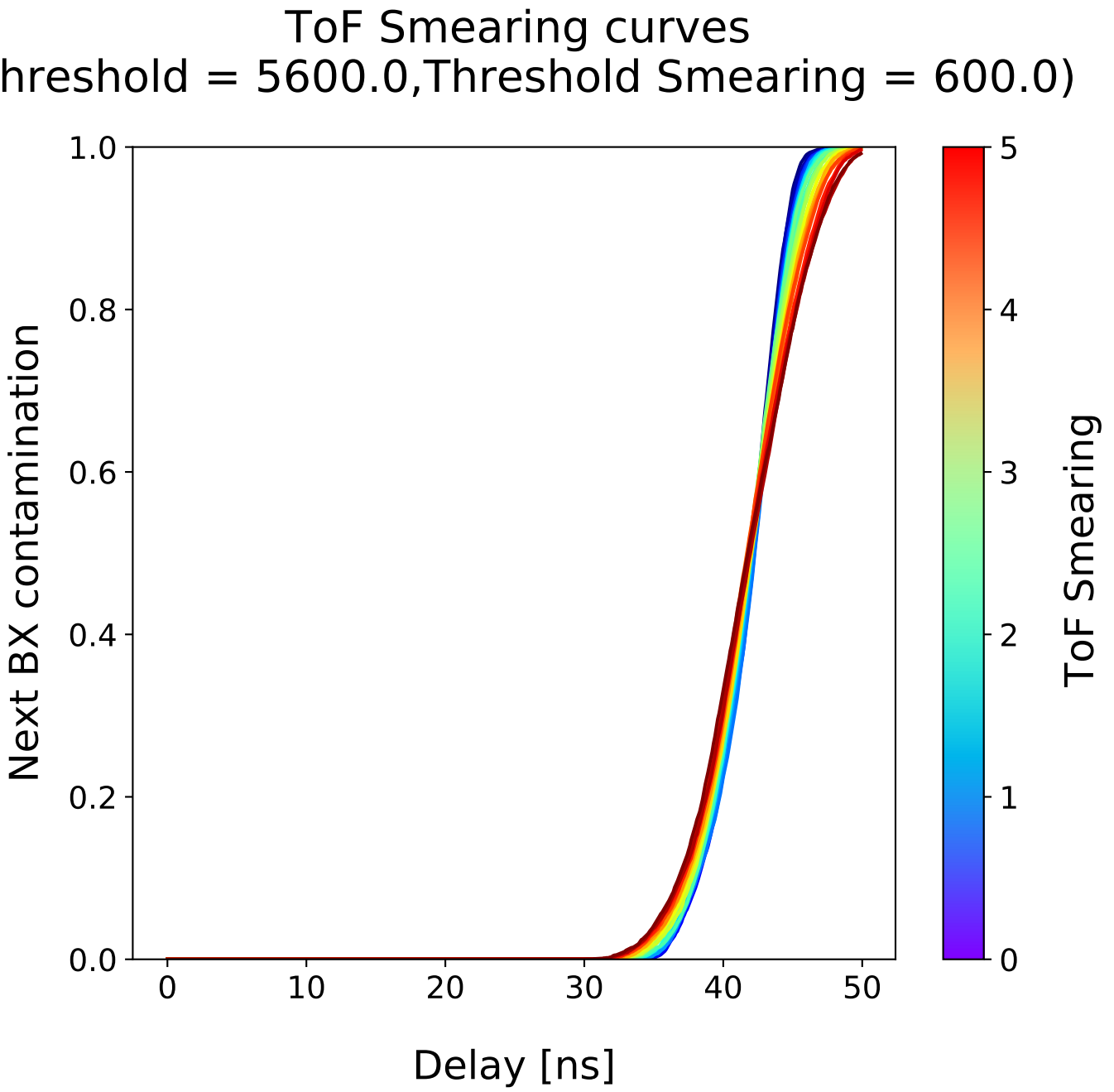

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

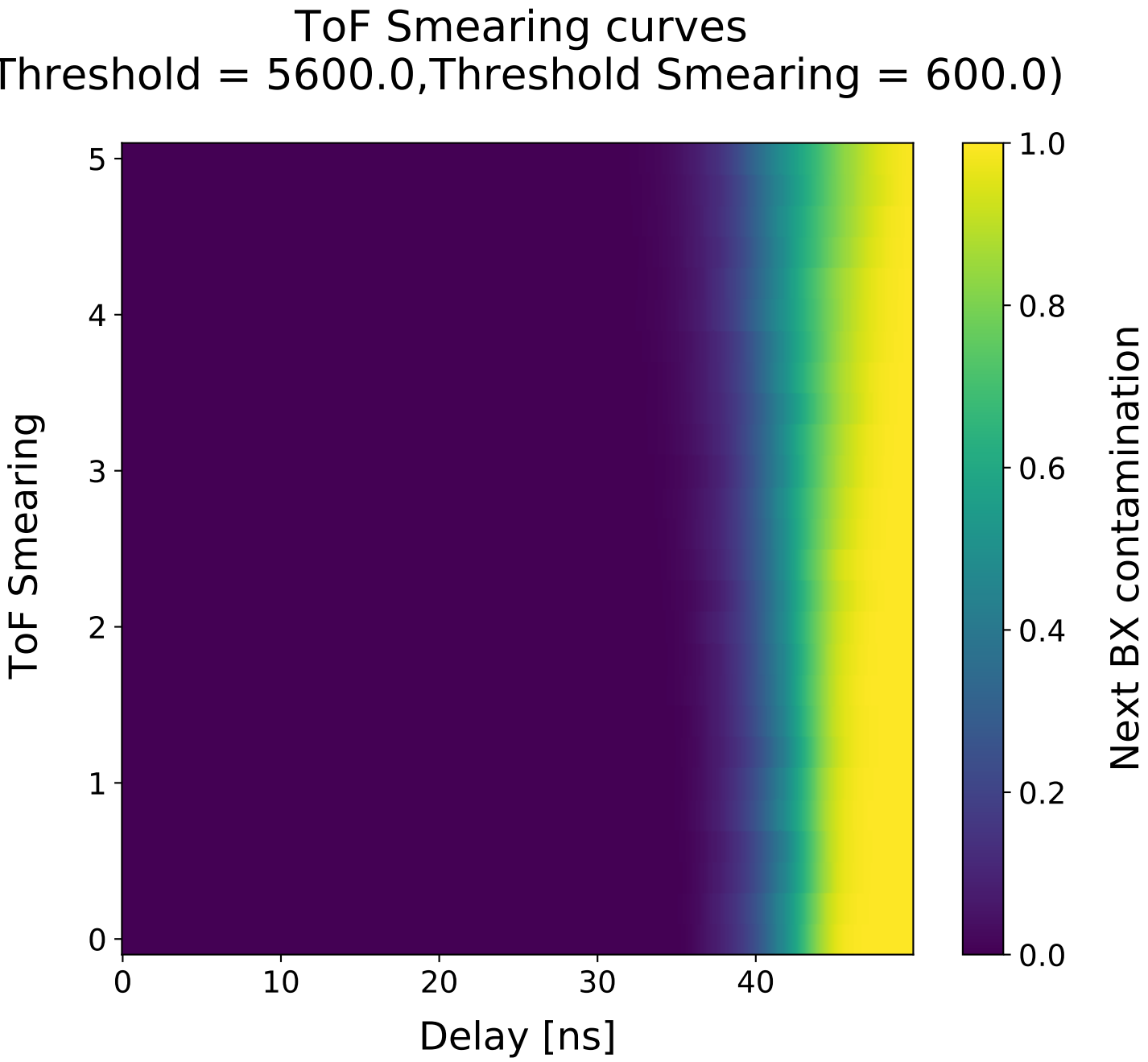

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

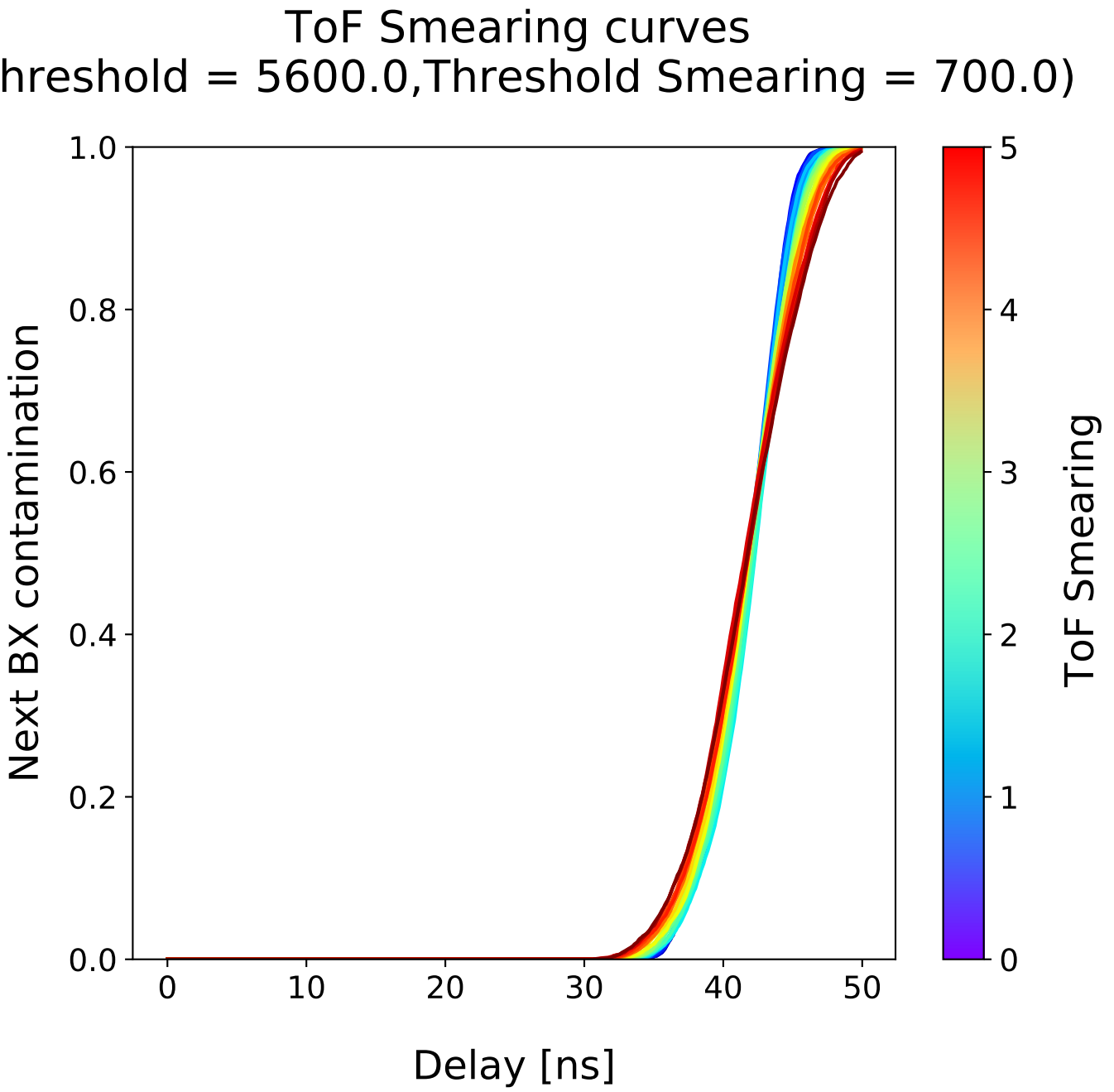

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

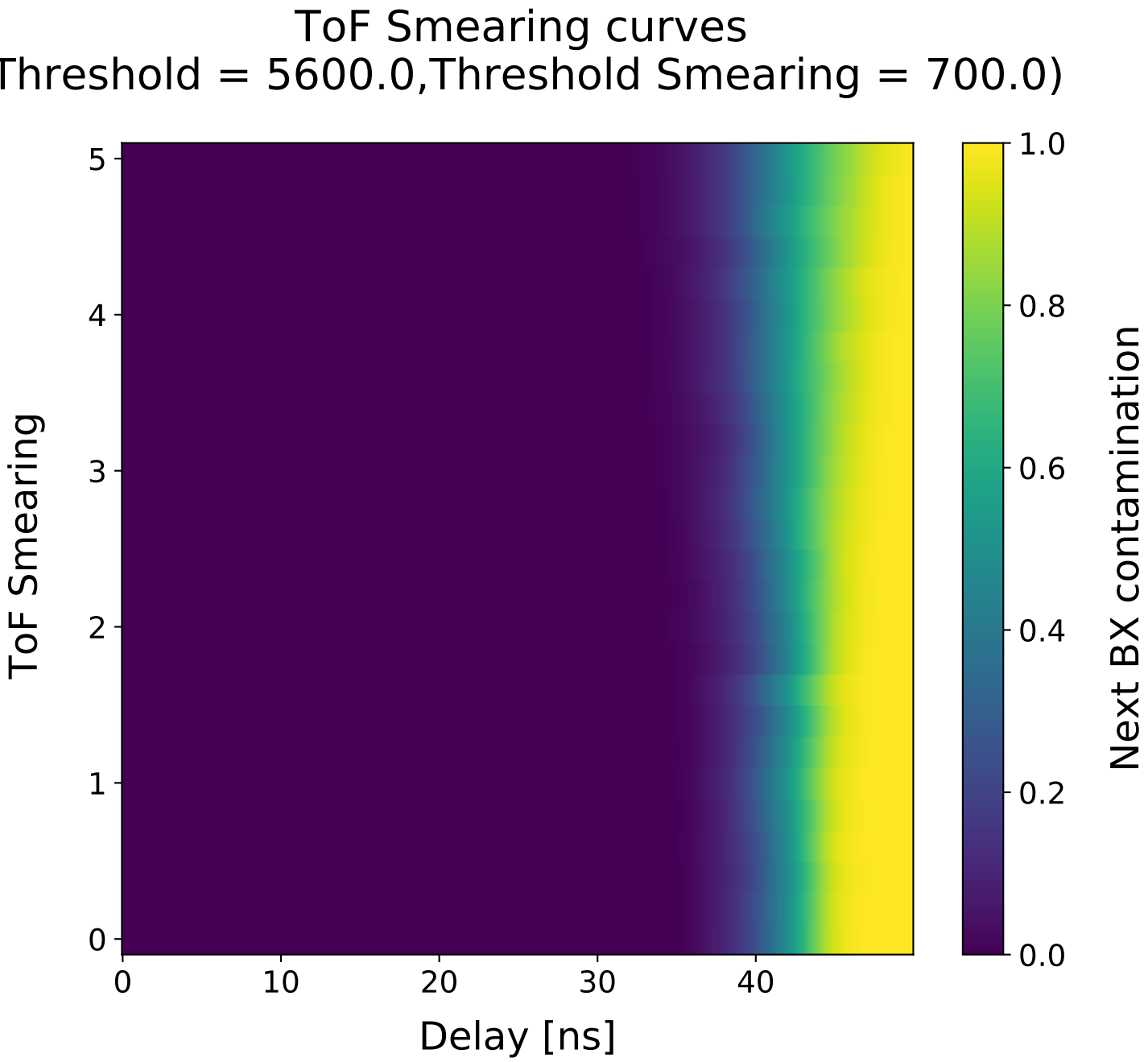

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

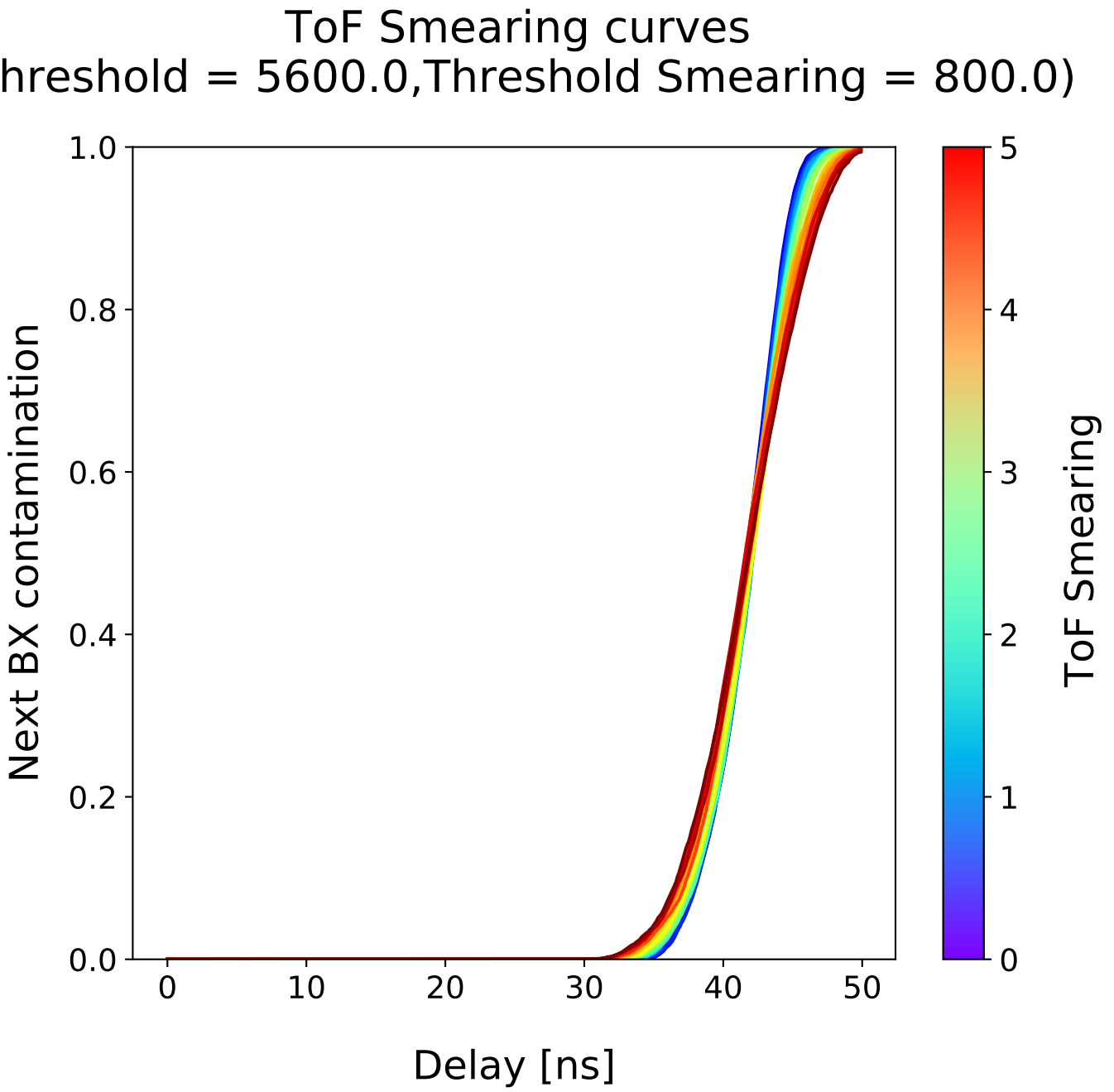

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

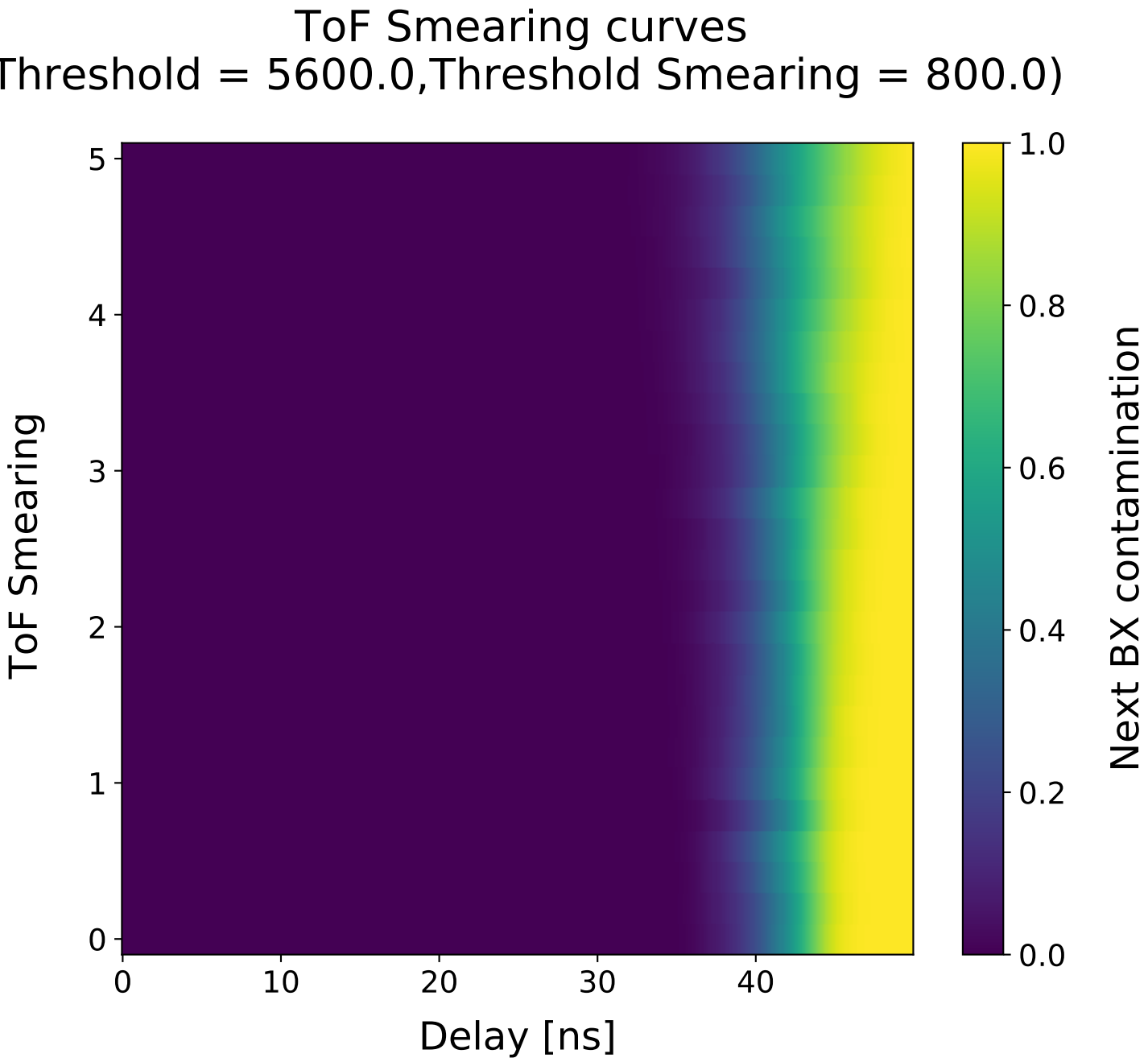

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

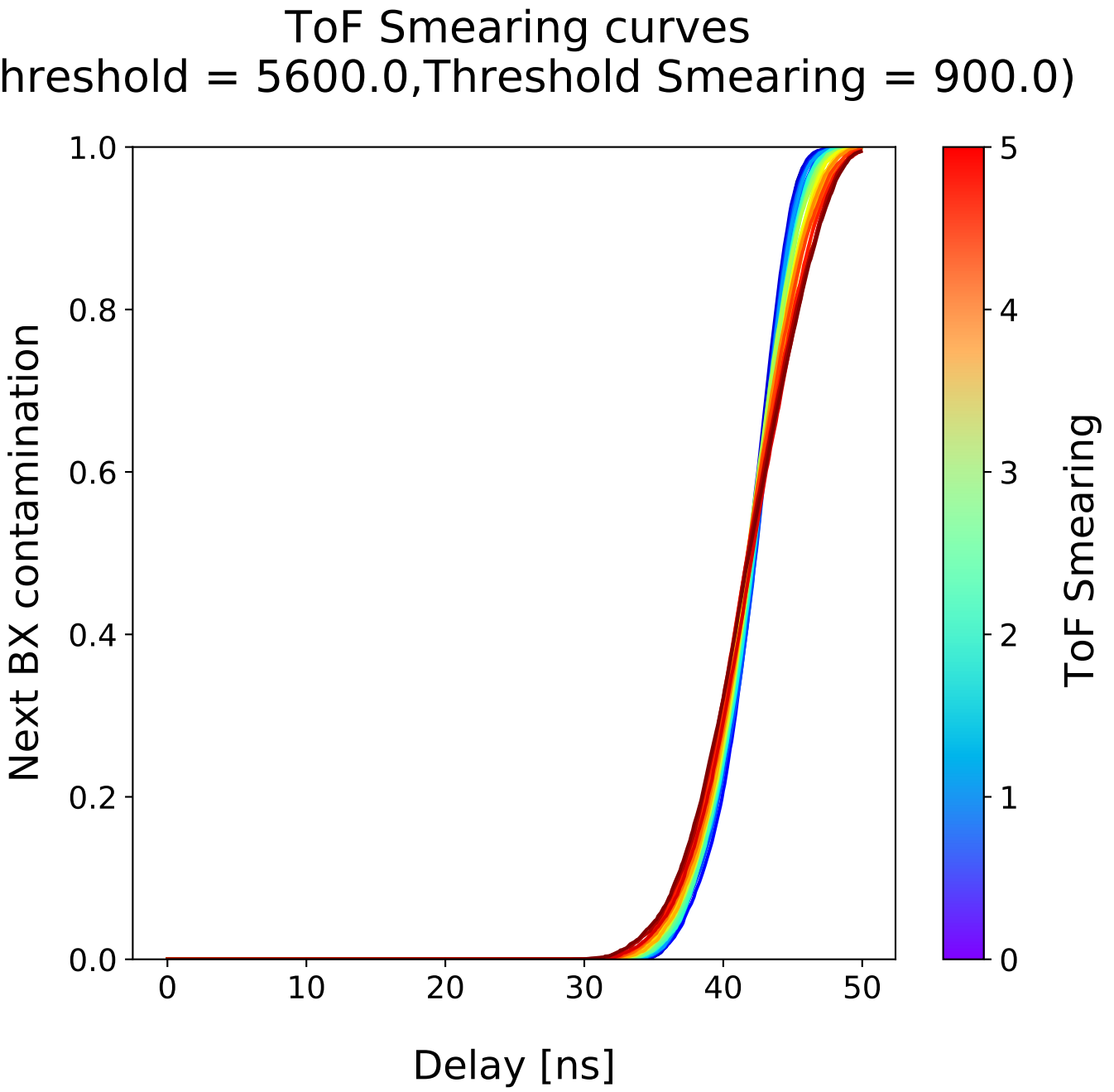

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

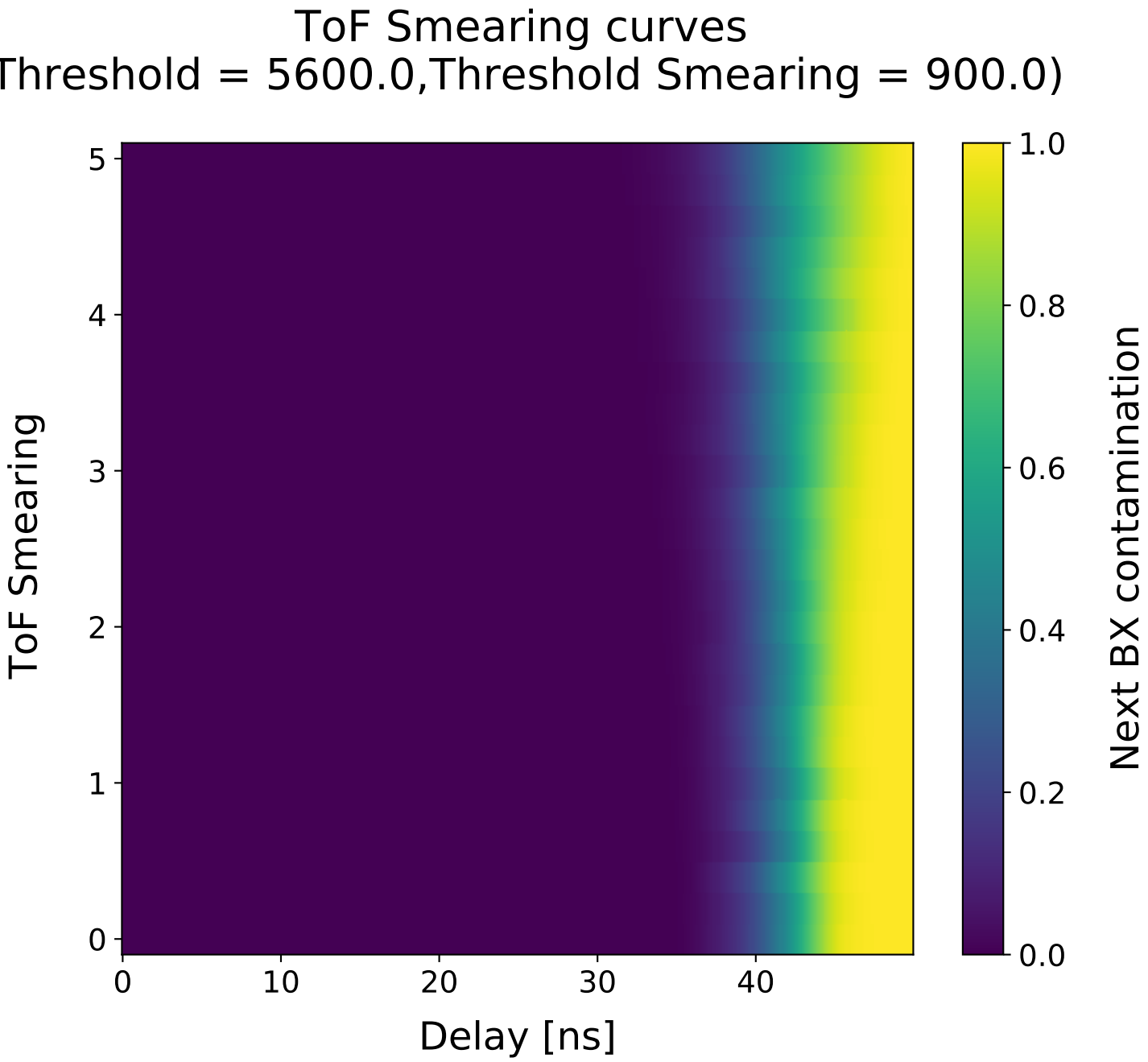

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

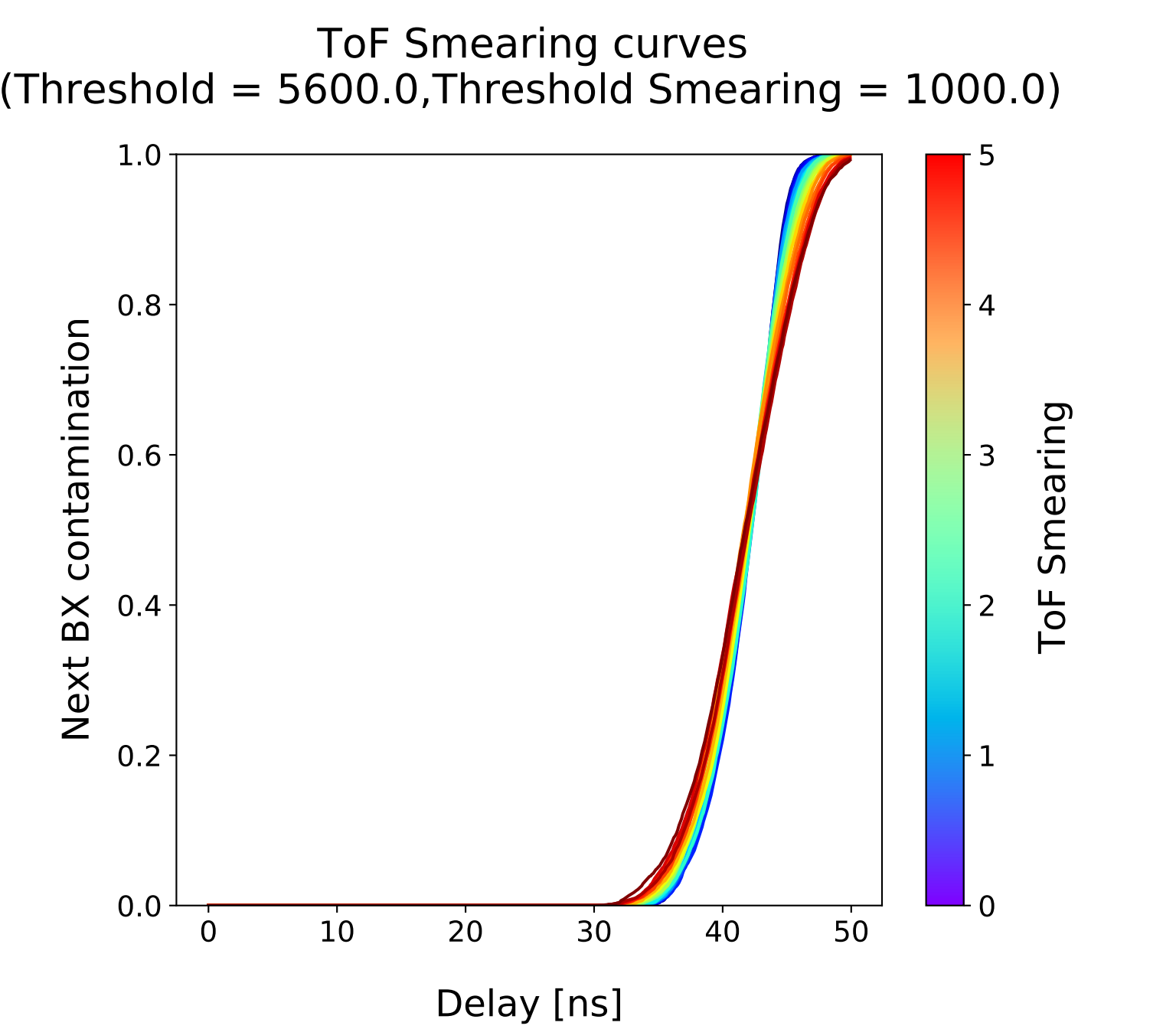

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

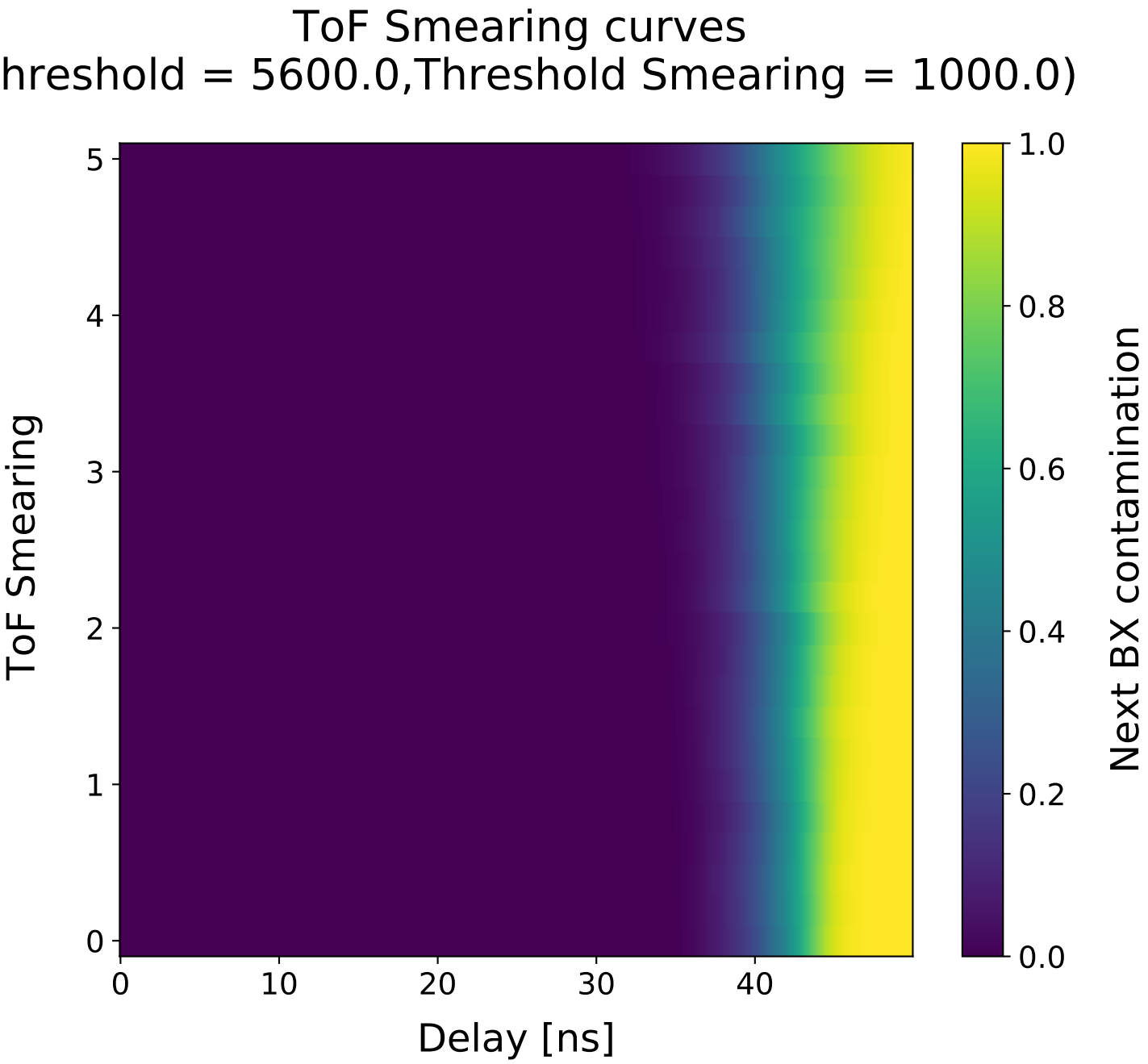

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

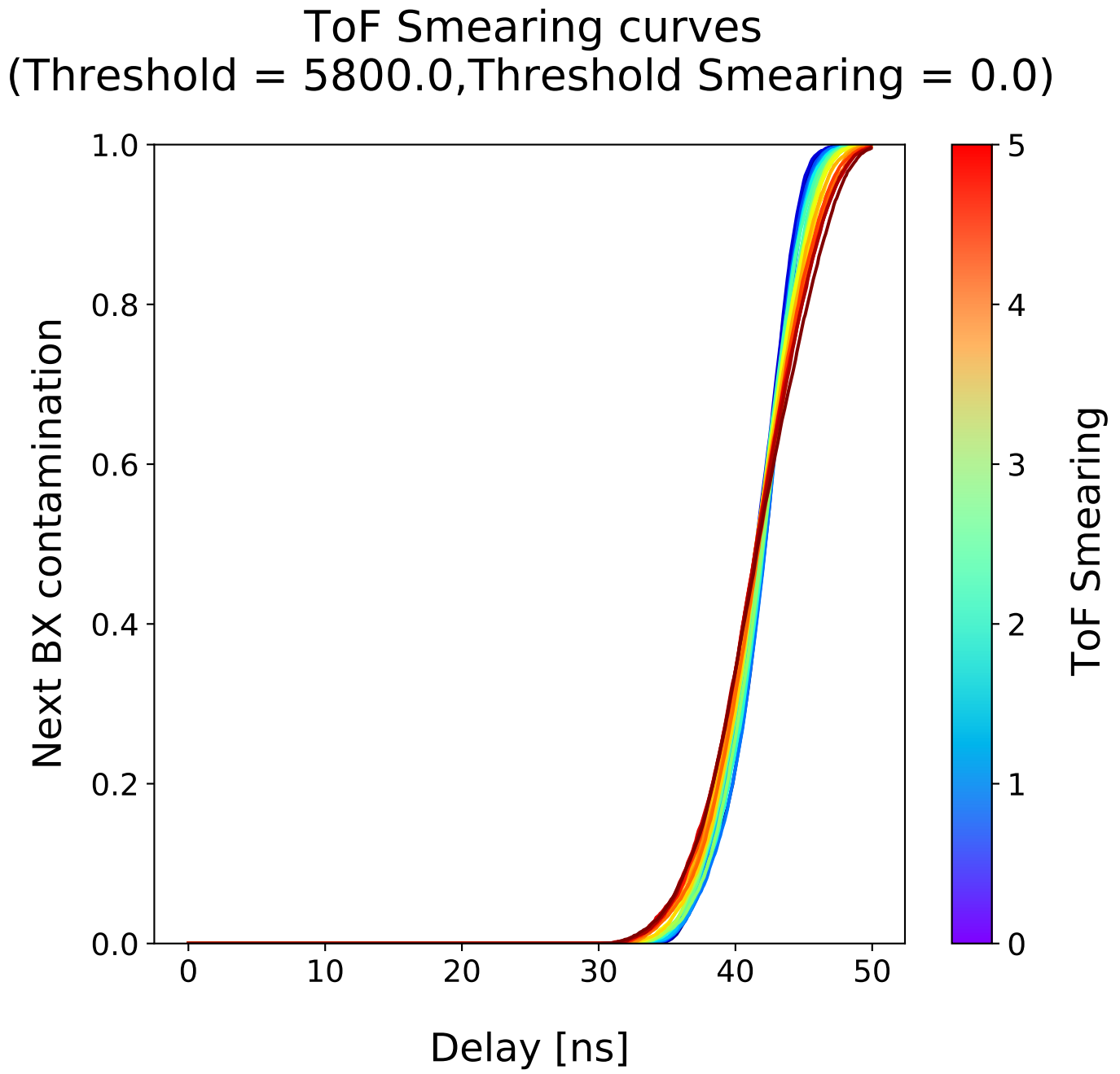

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

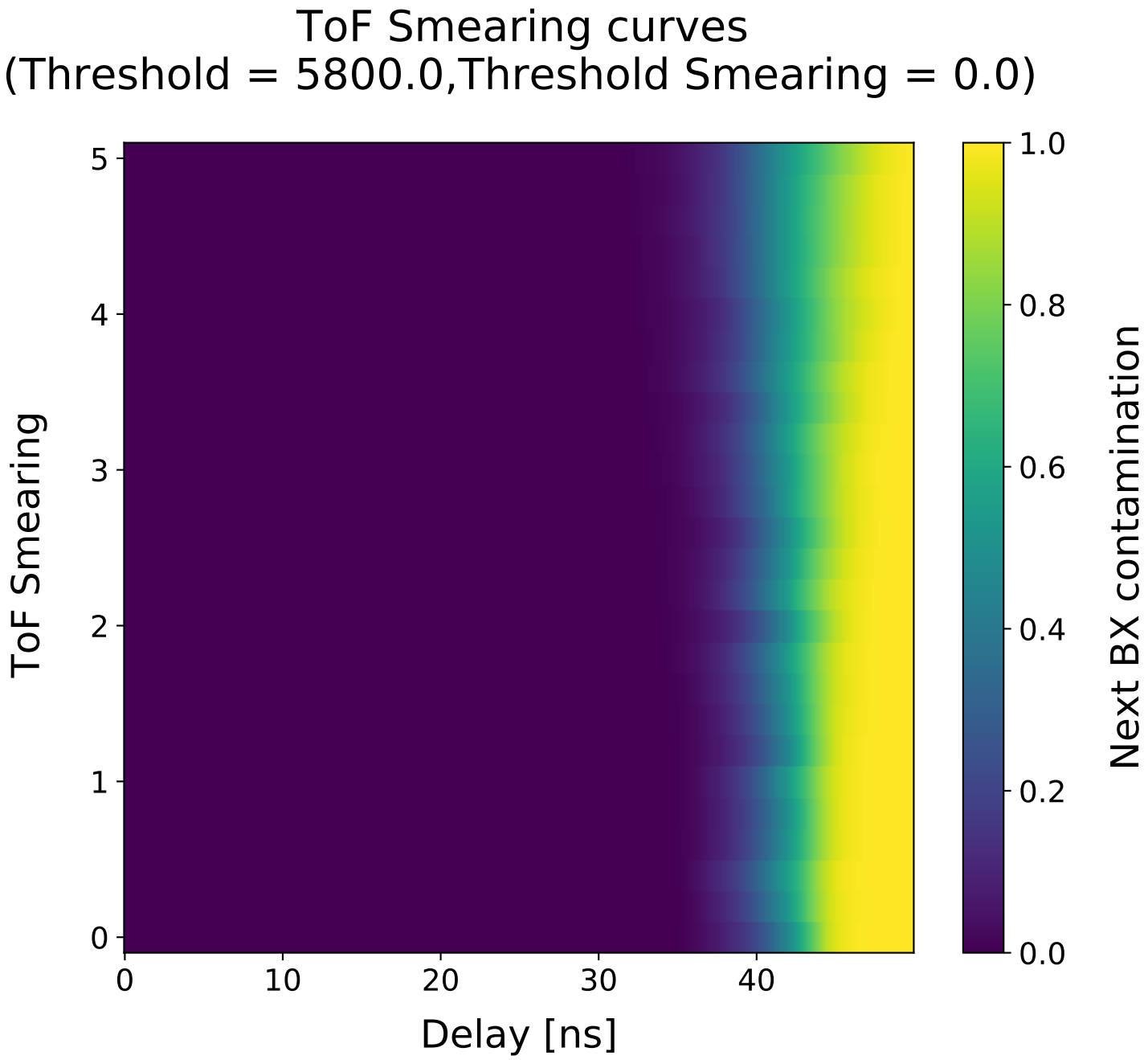

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

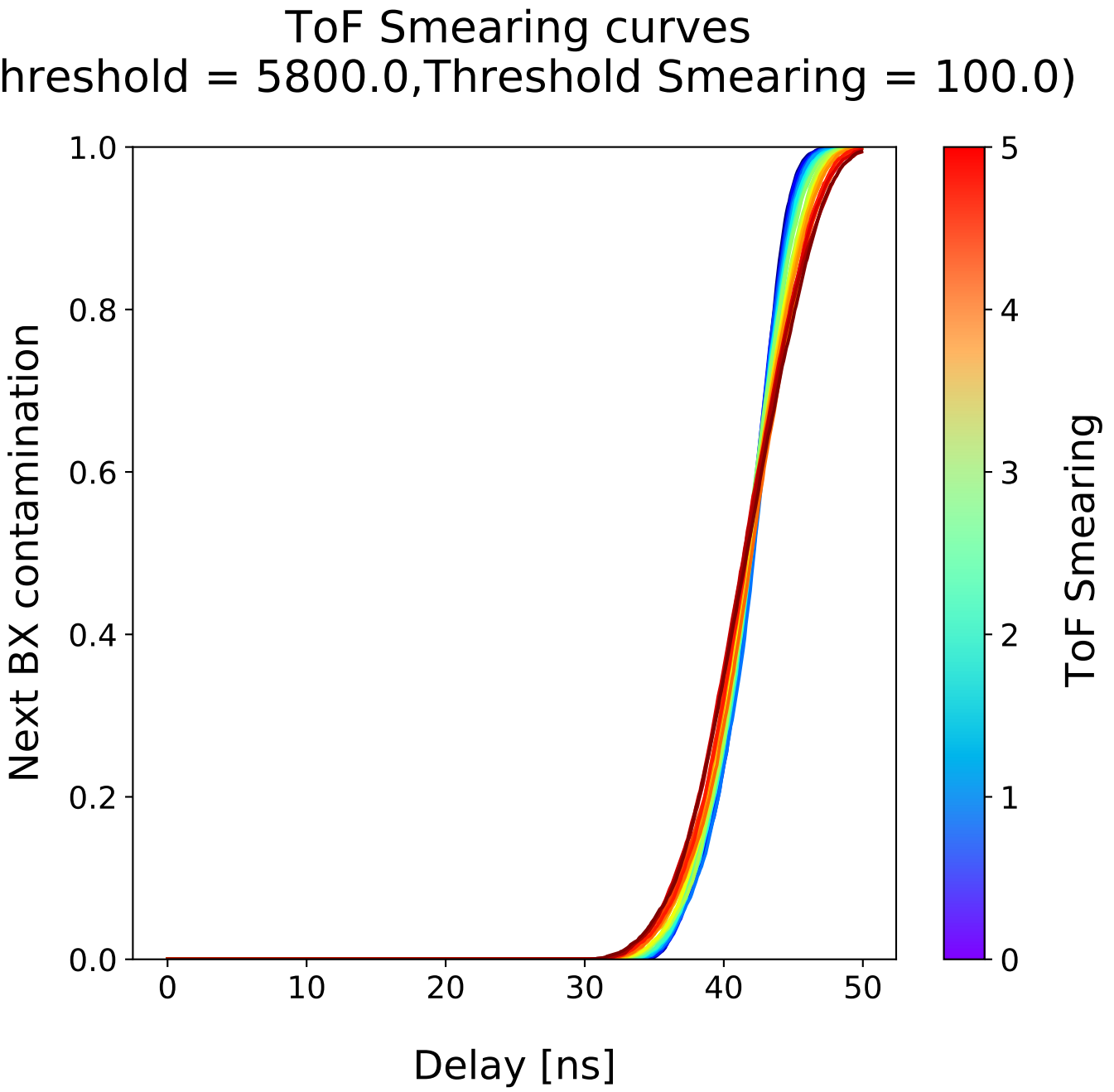

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

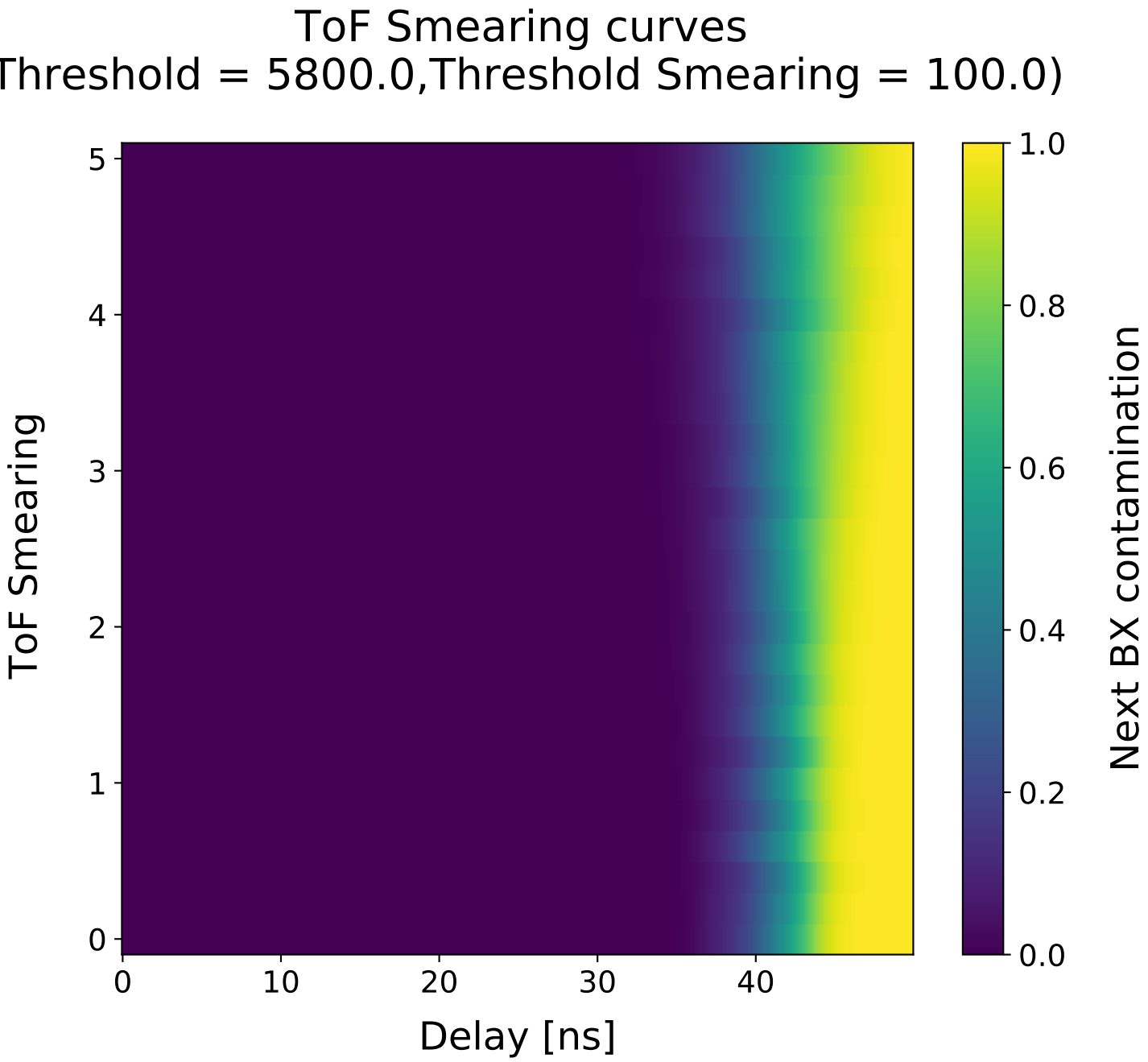

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
5
4
3
2
1
0

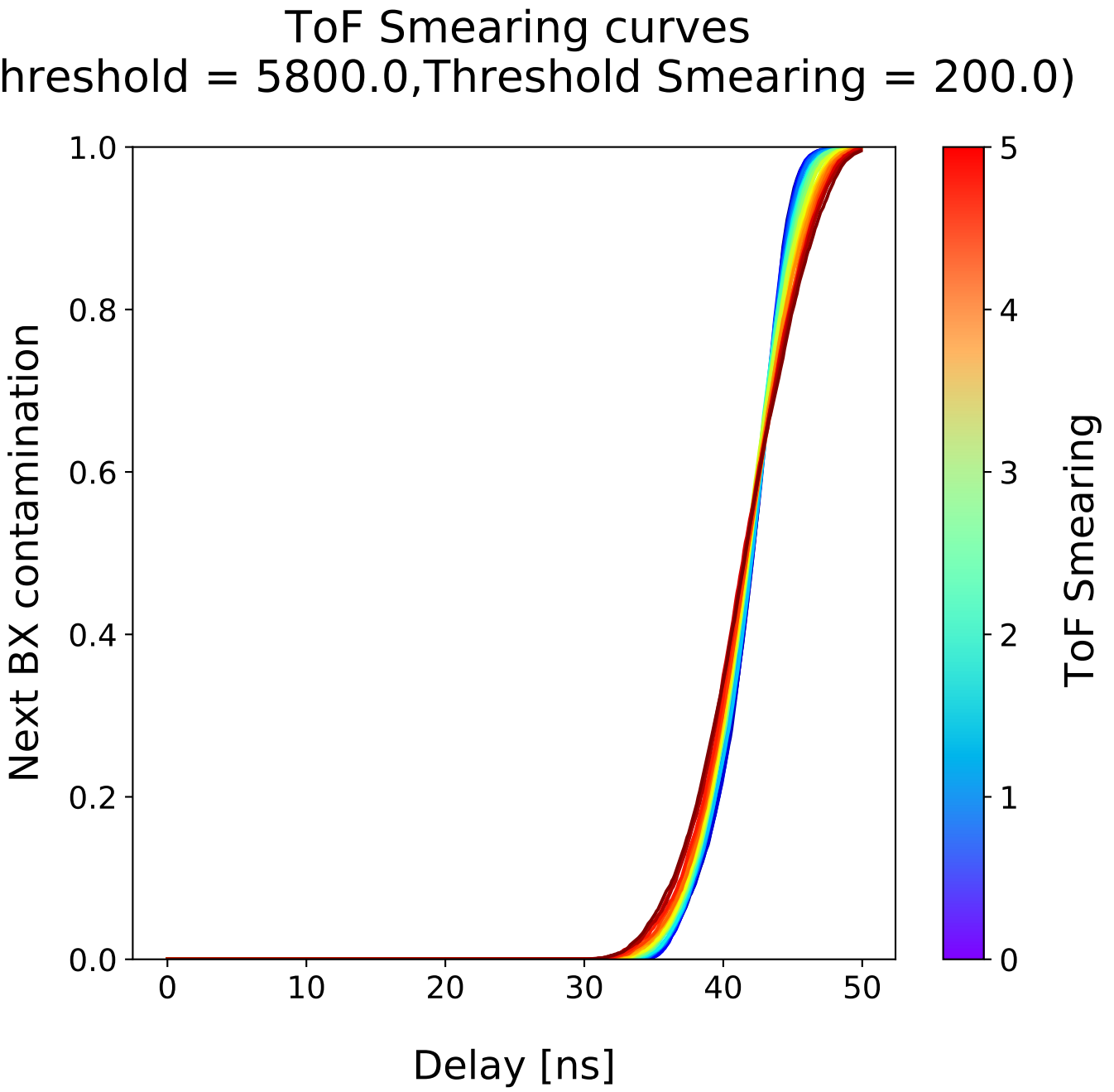

ToF Smearing curves
(Threshold = 5600.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

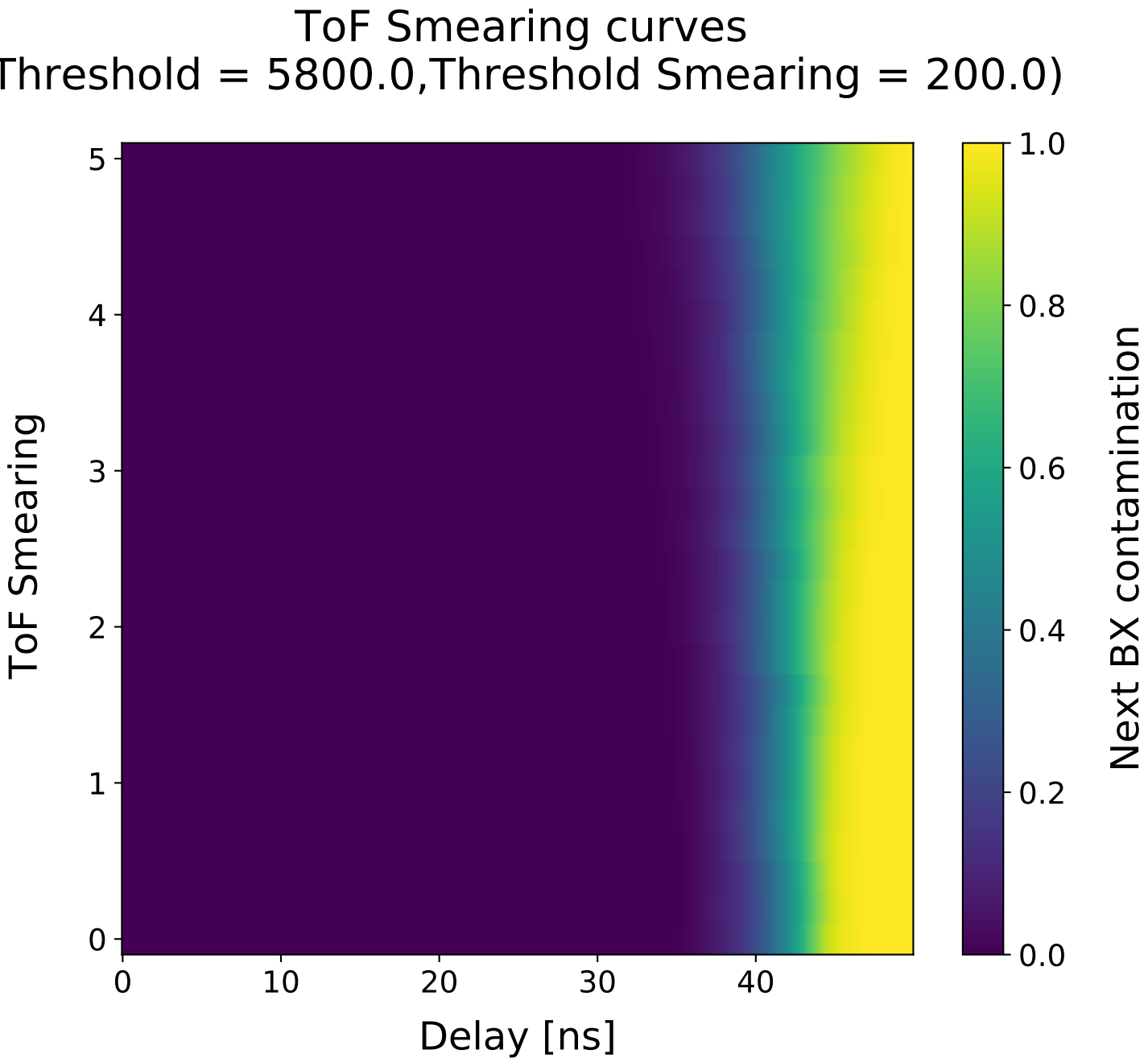

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

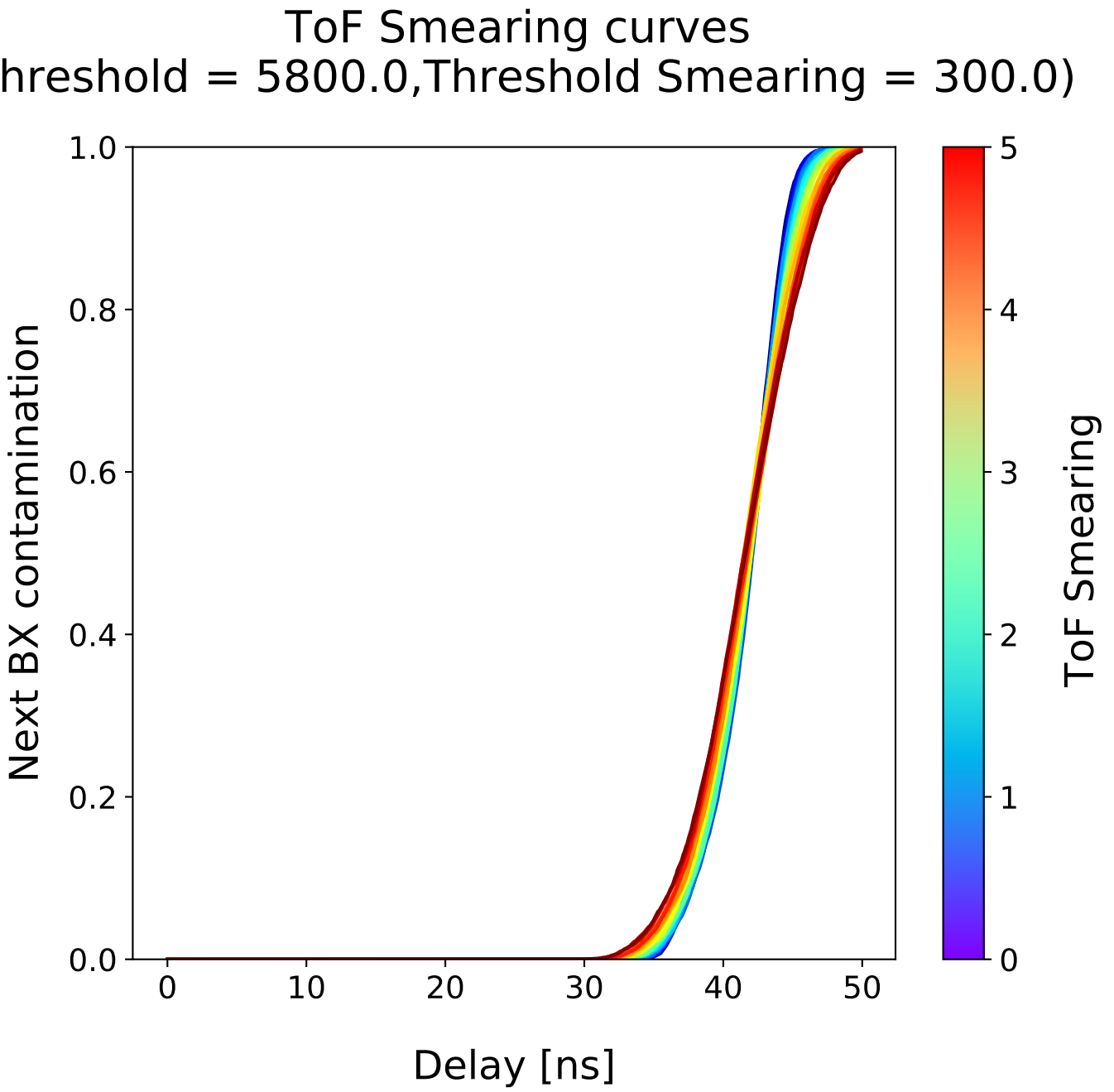

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

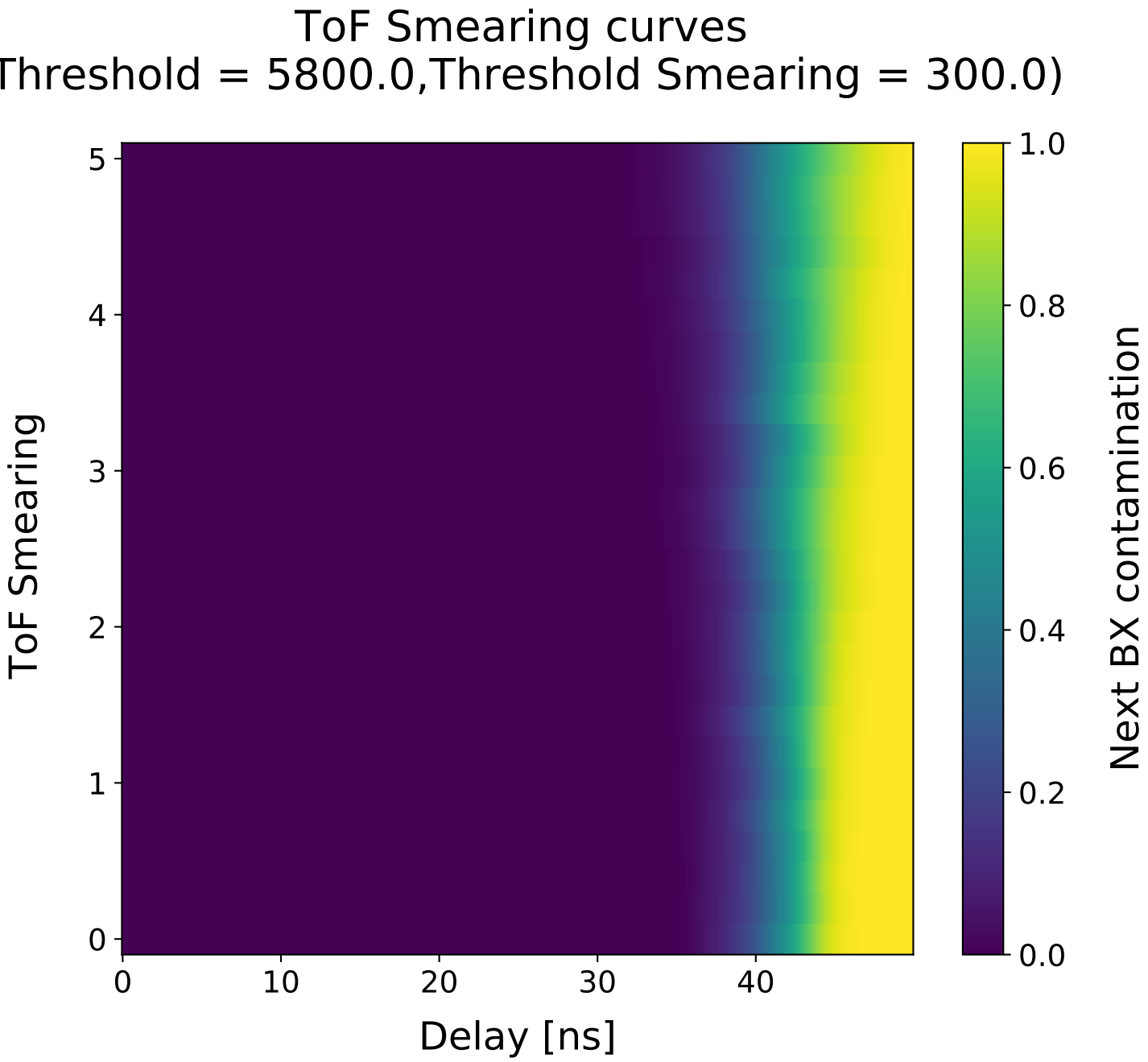

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
5
4
3
2
1
0

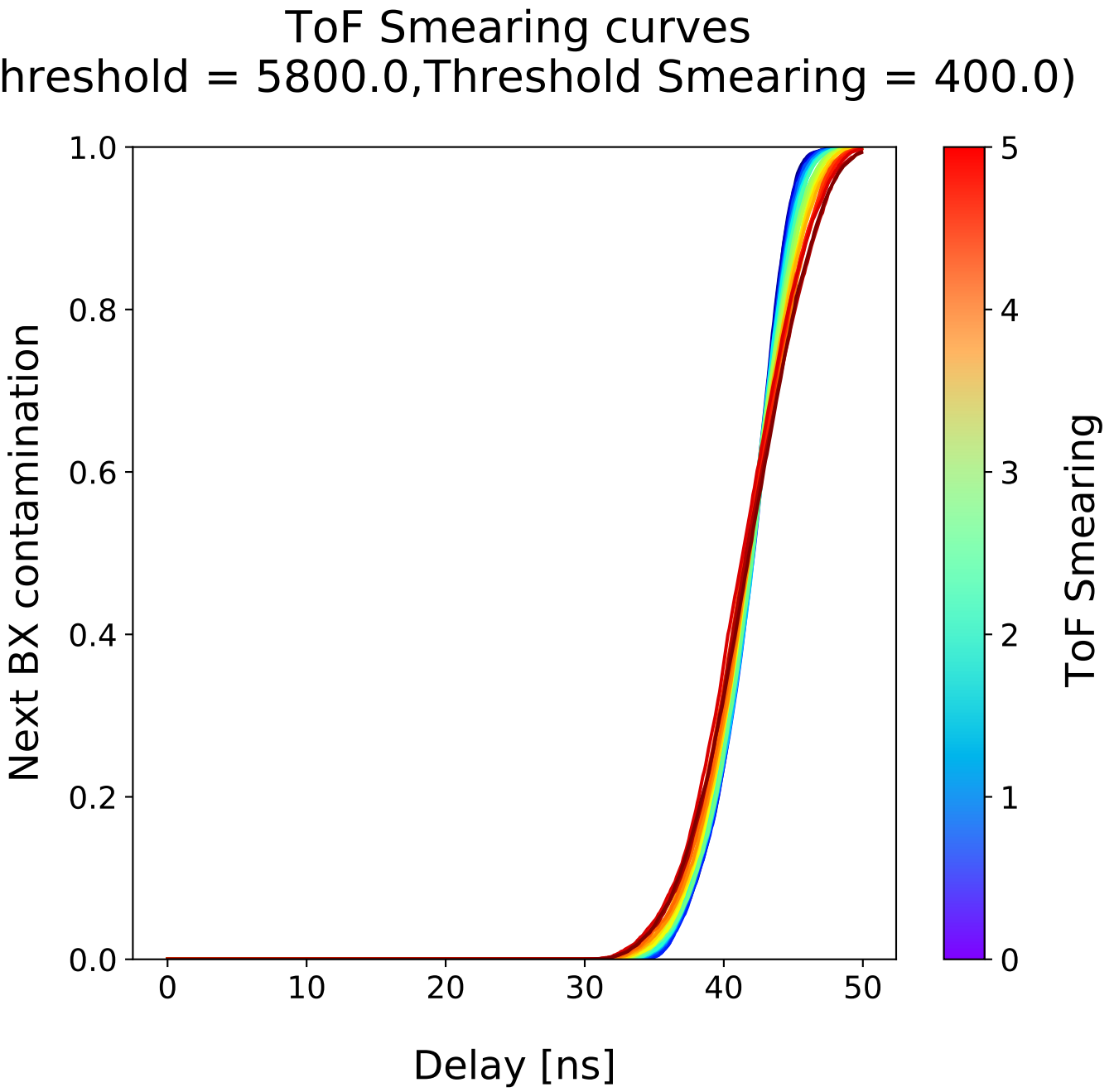

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

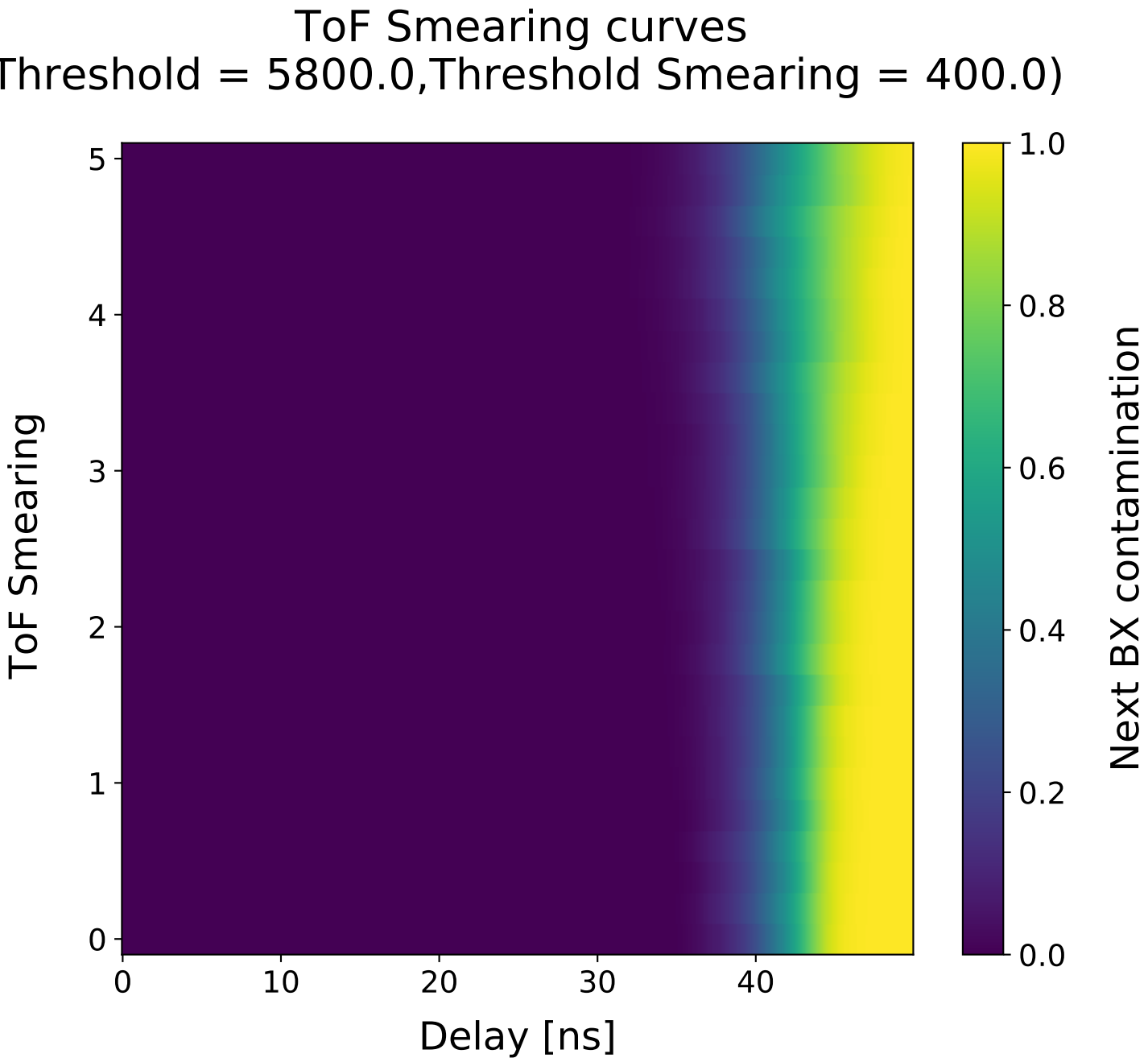

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

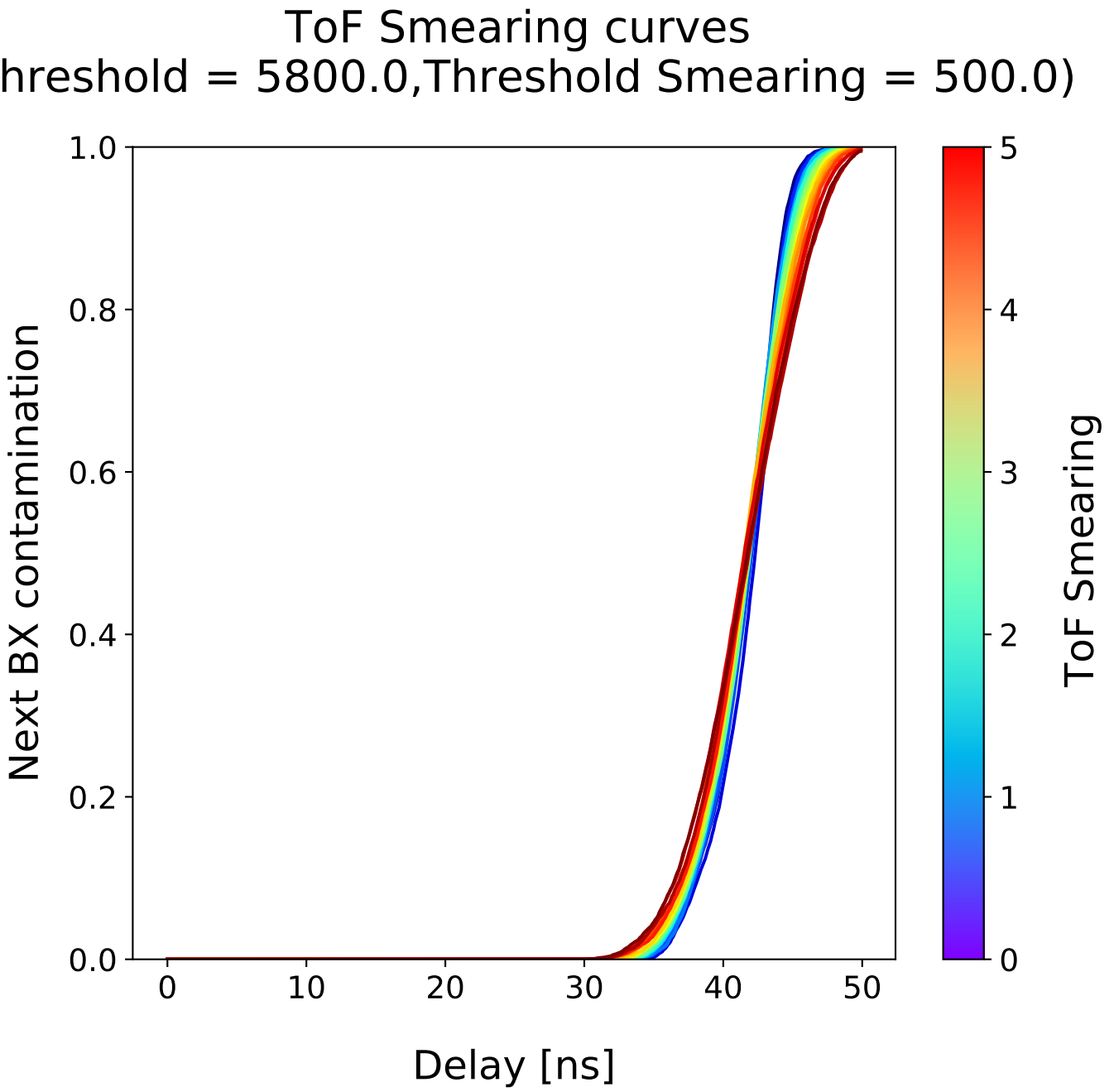

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

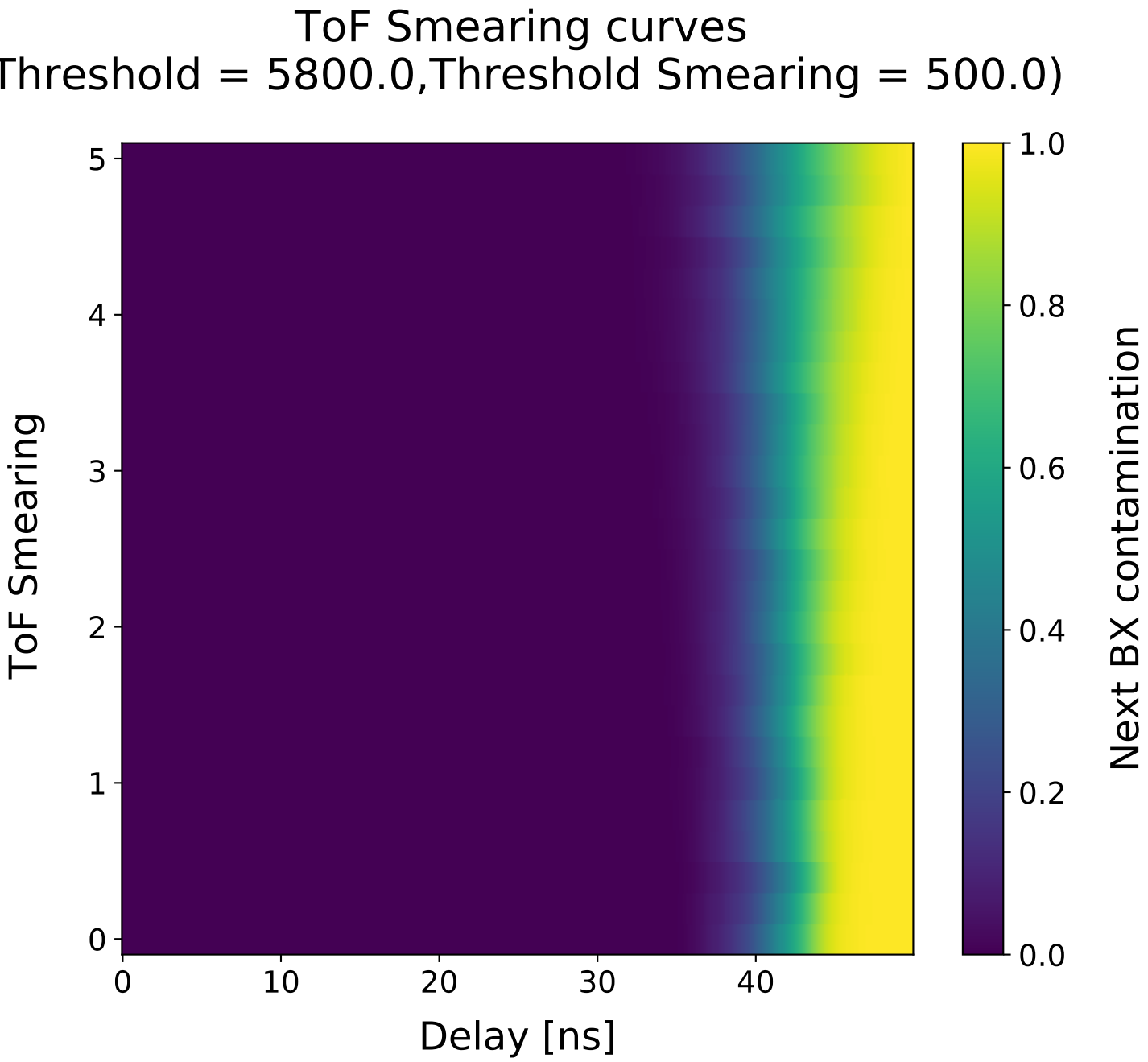

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

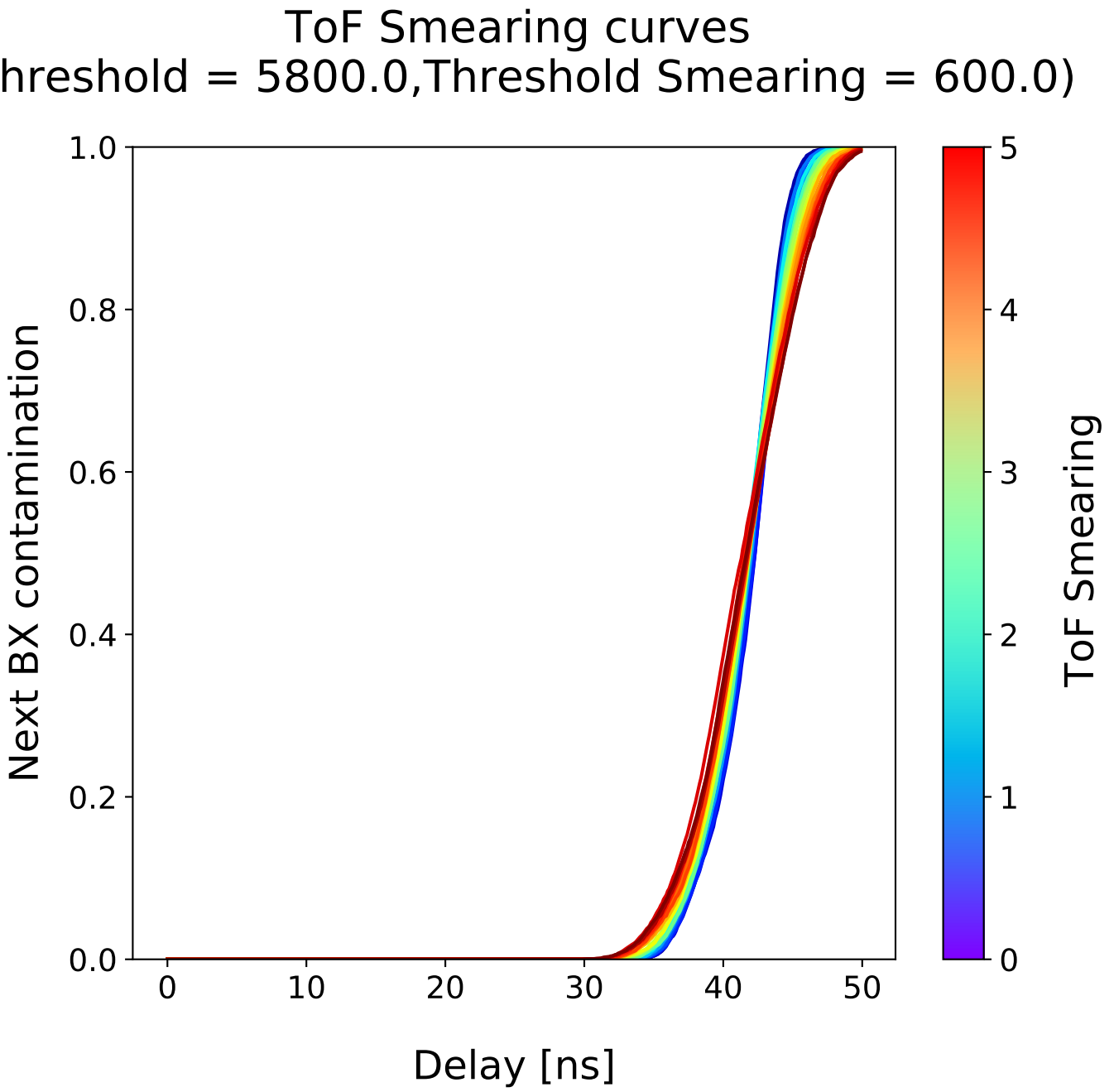

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

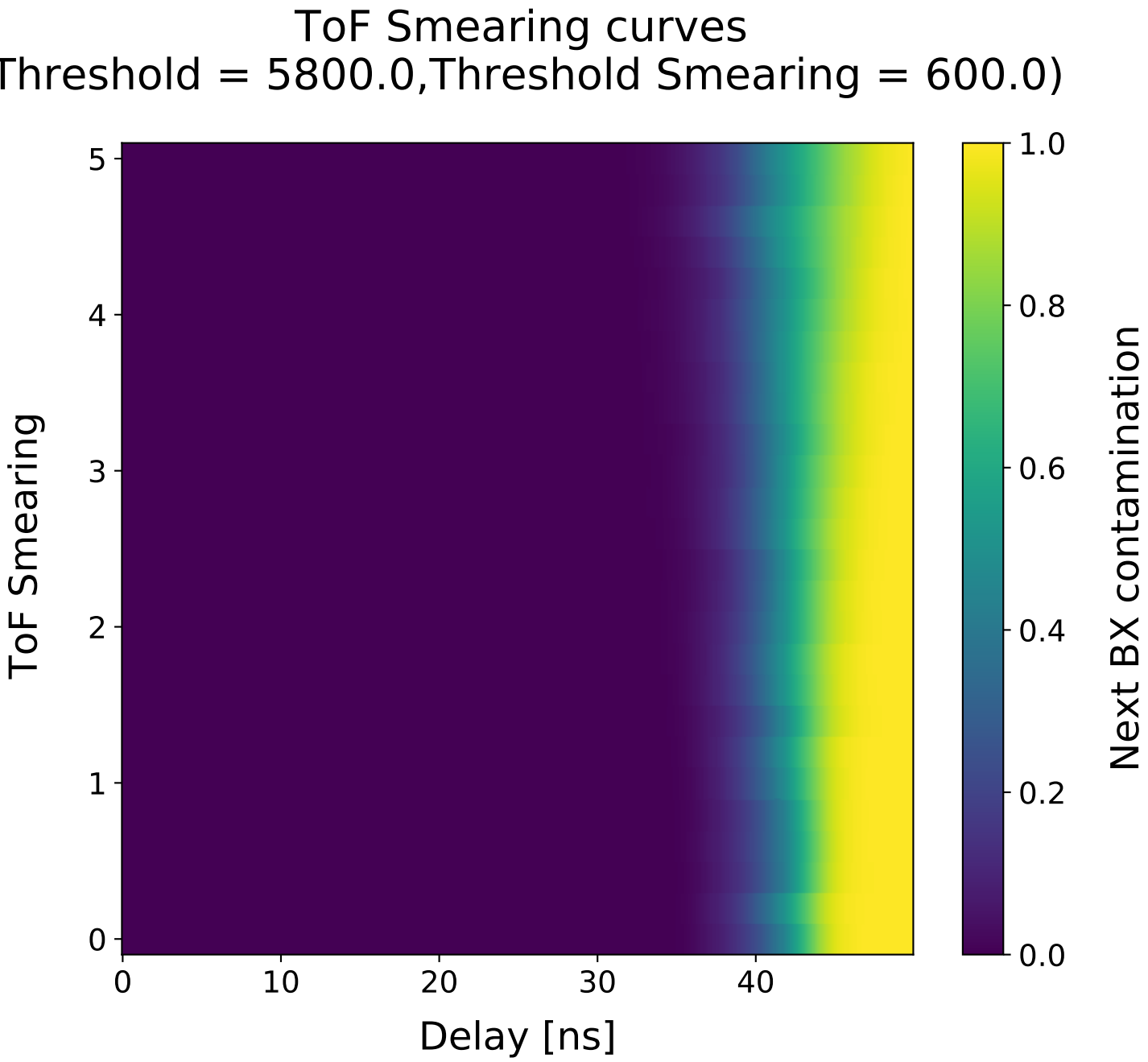

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

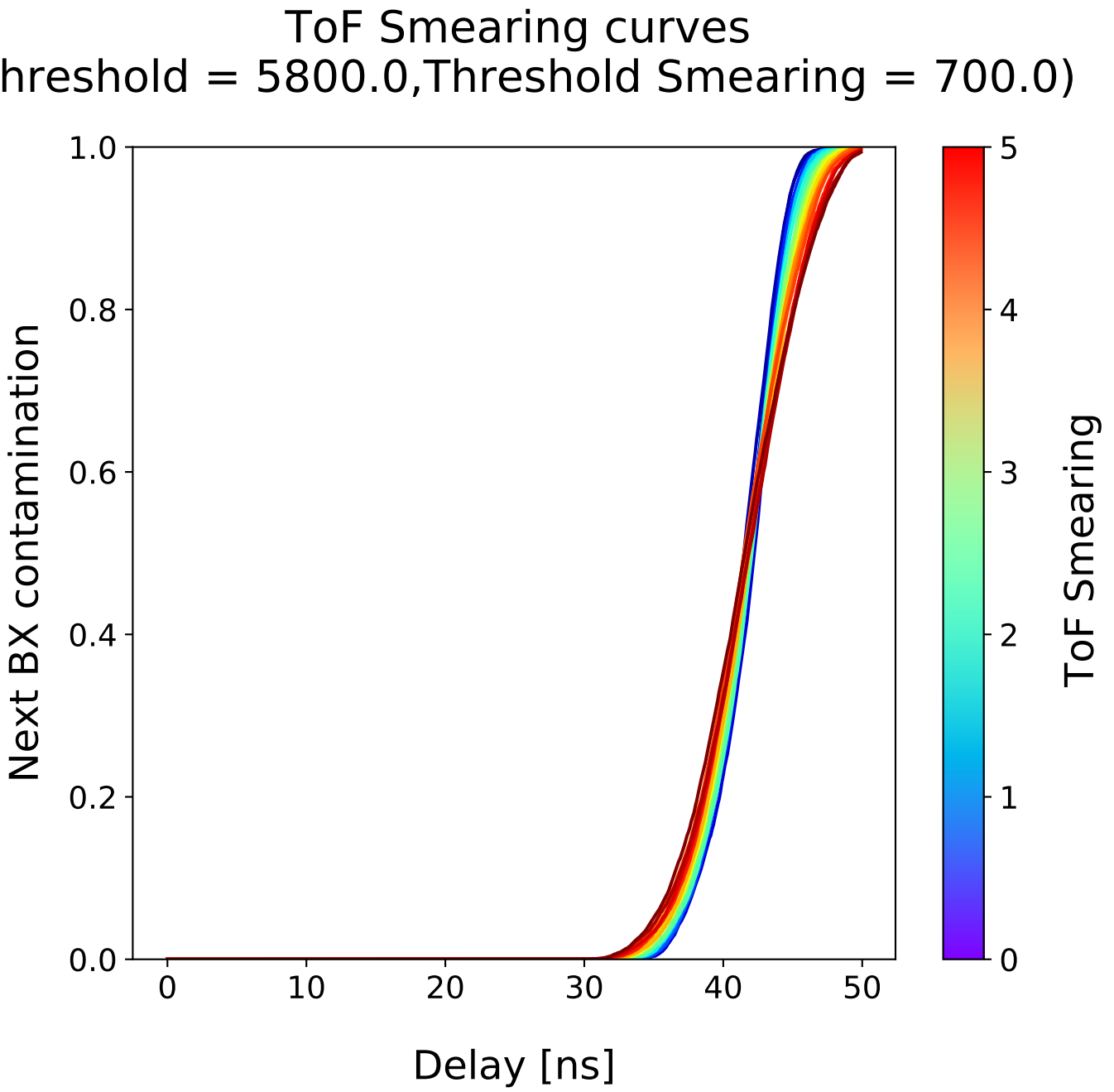

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

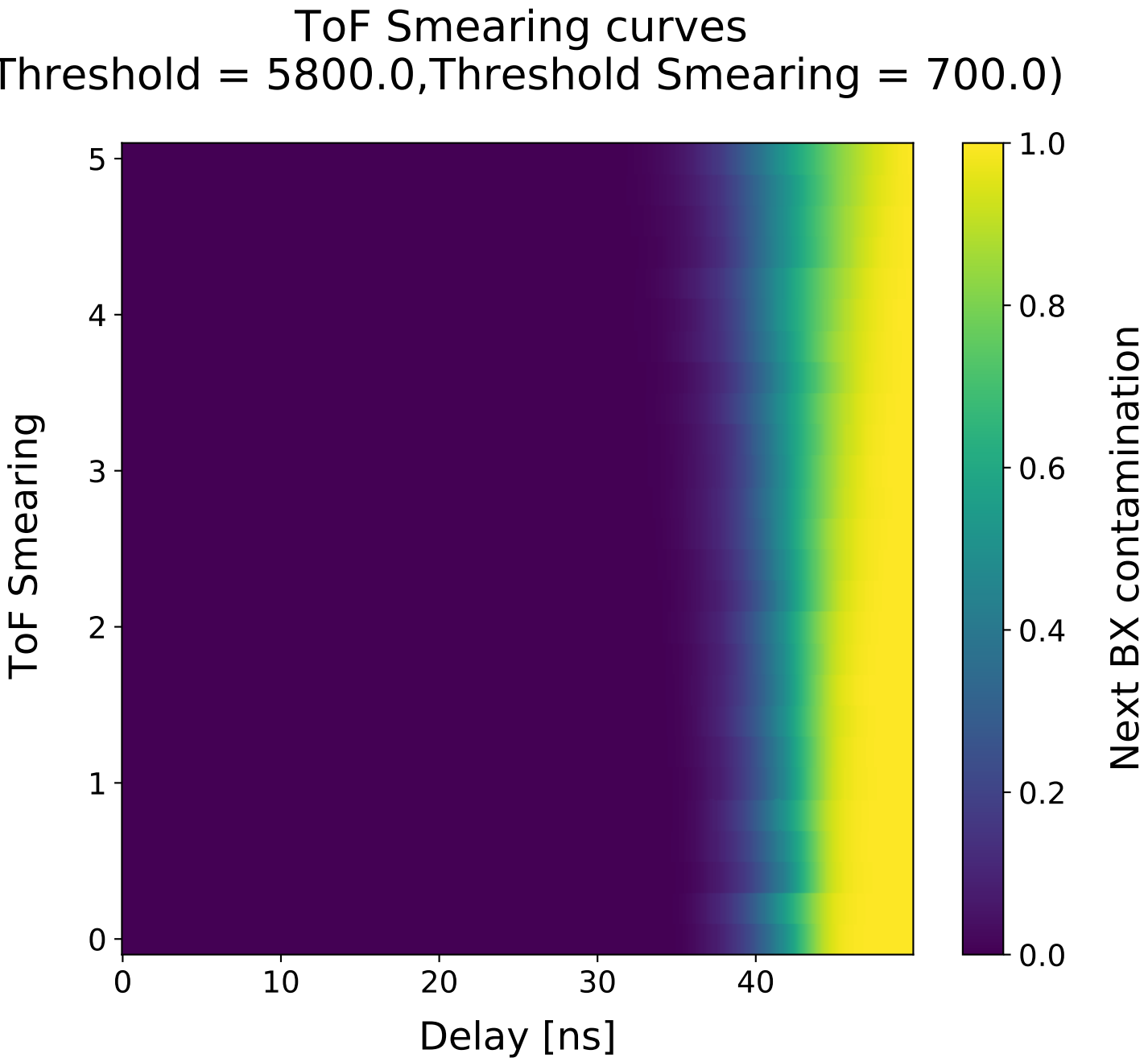

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

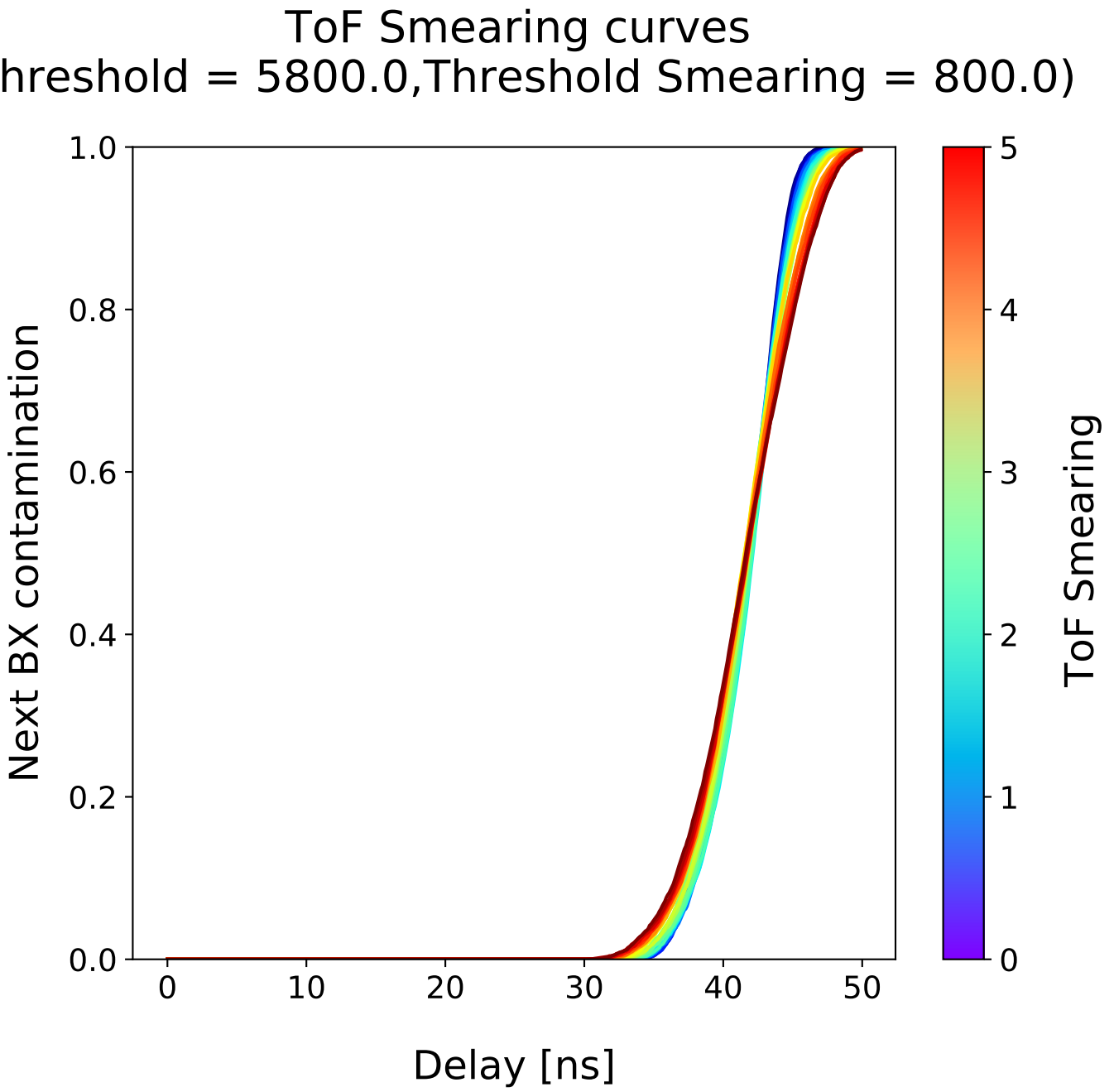

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

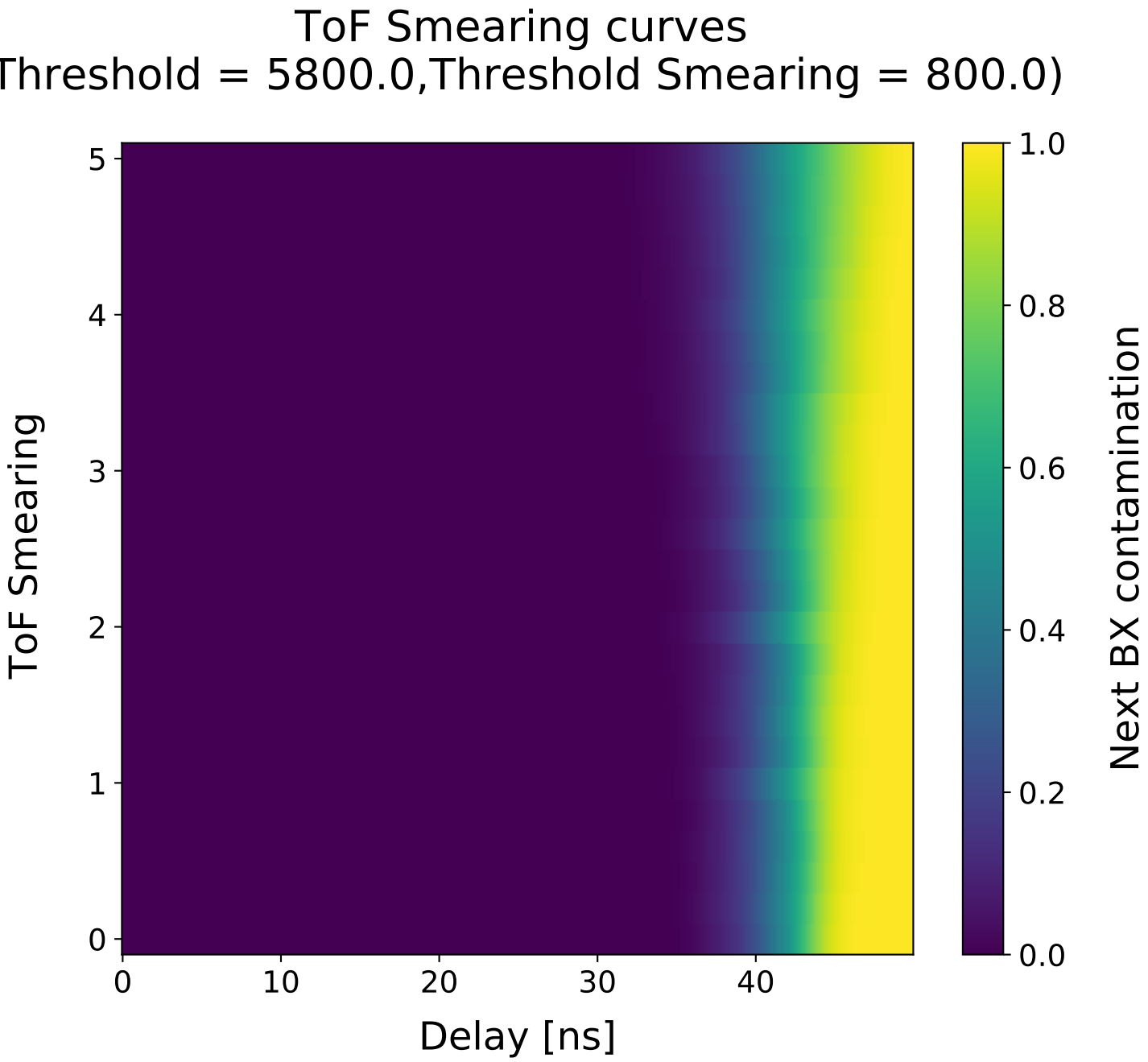

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

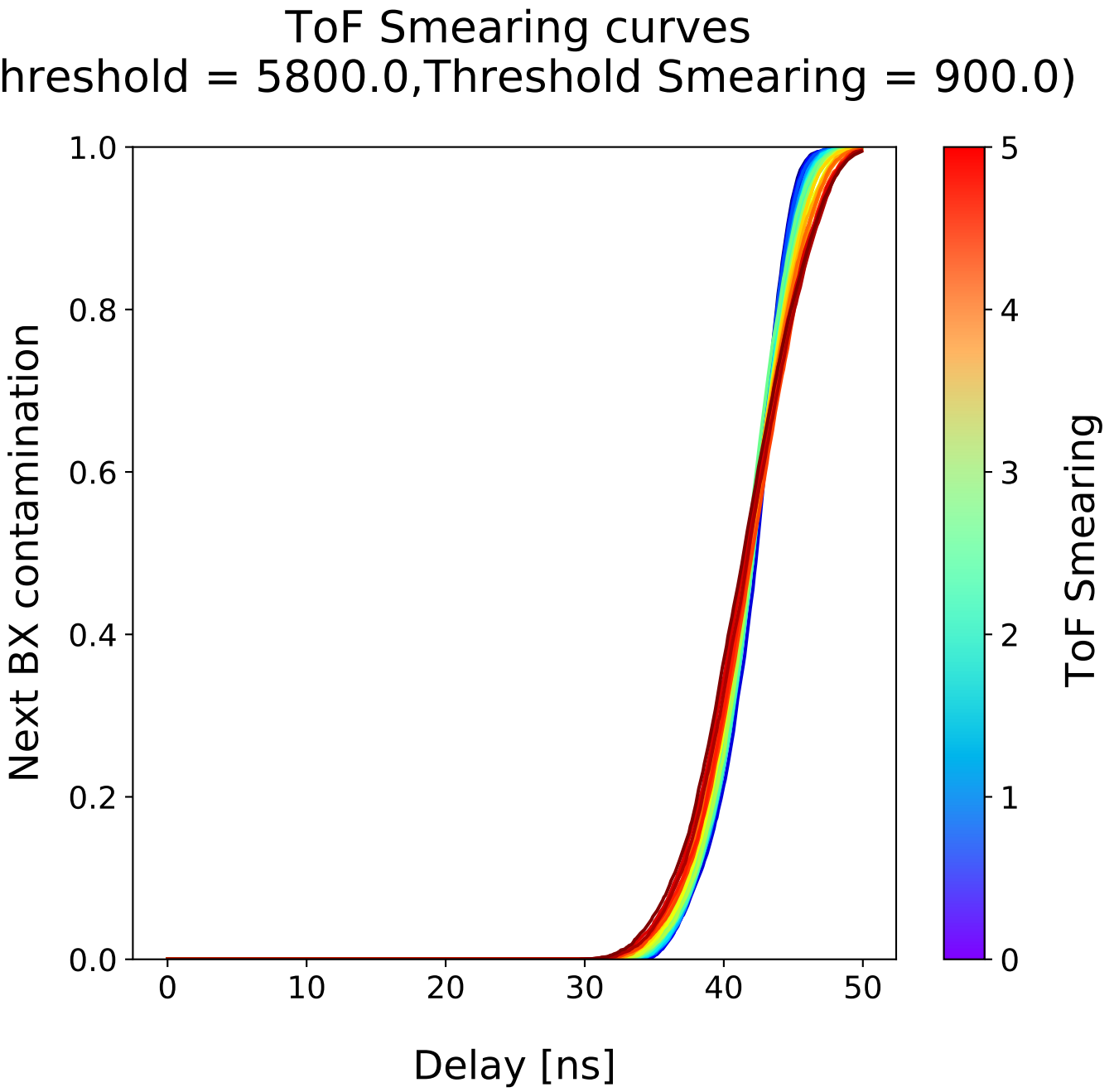

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

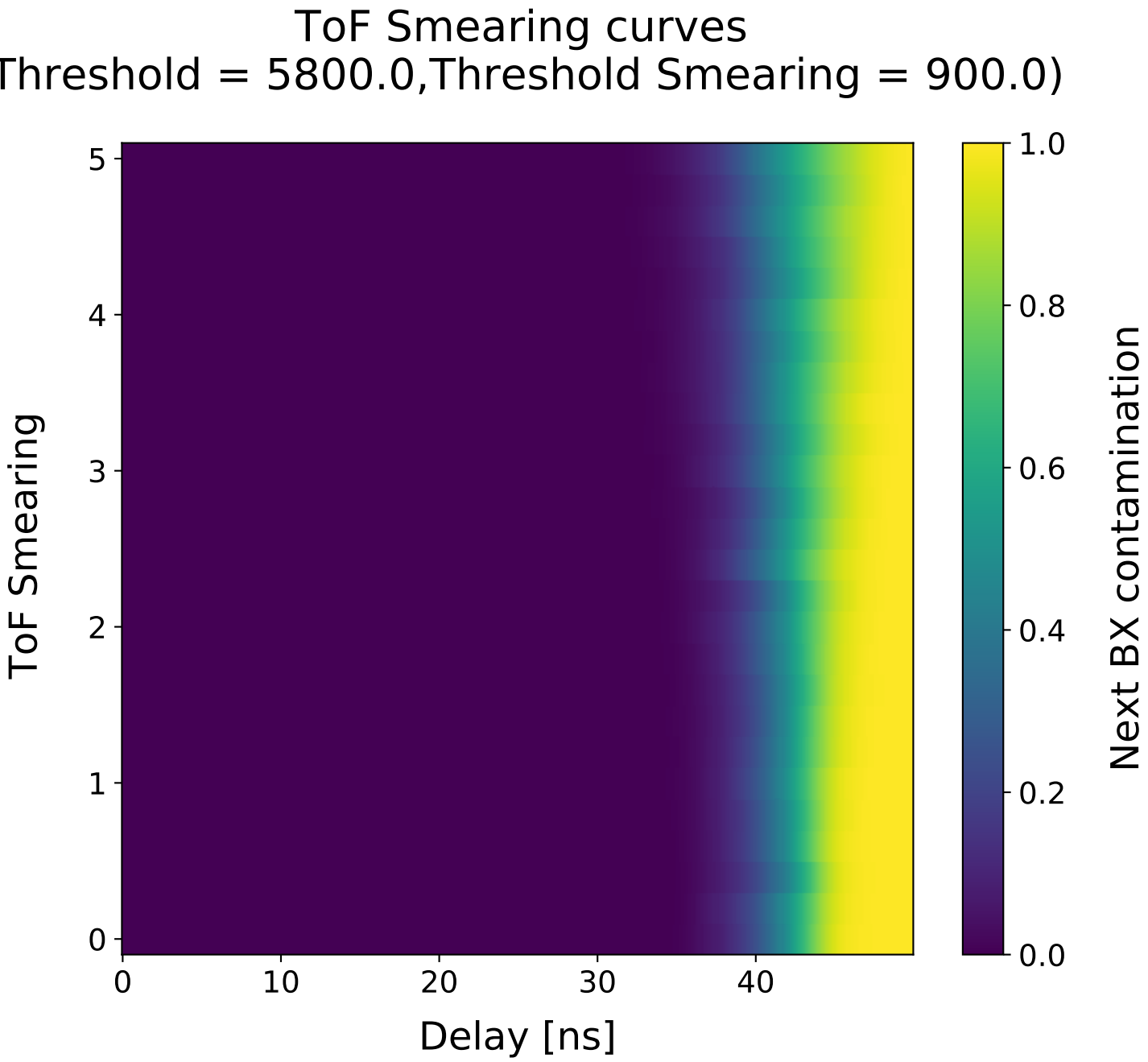

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

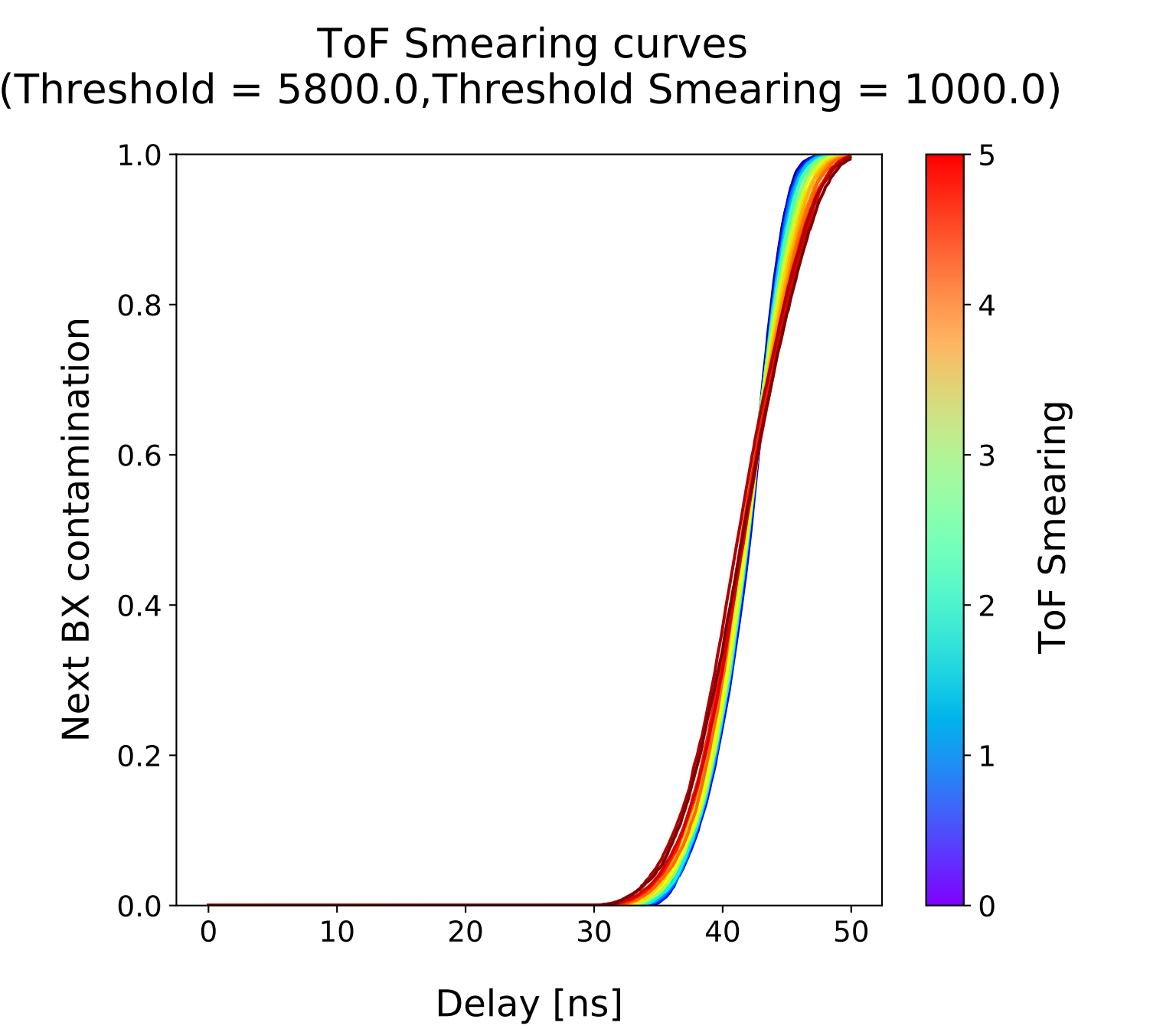

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

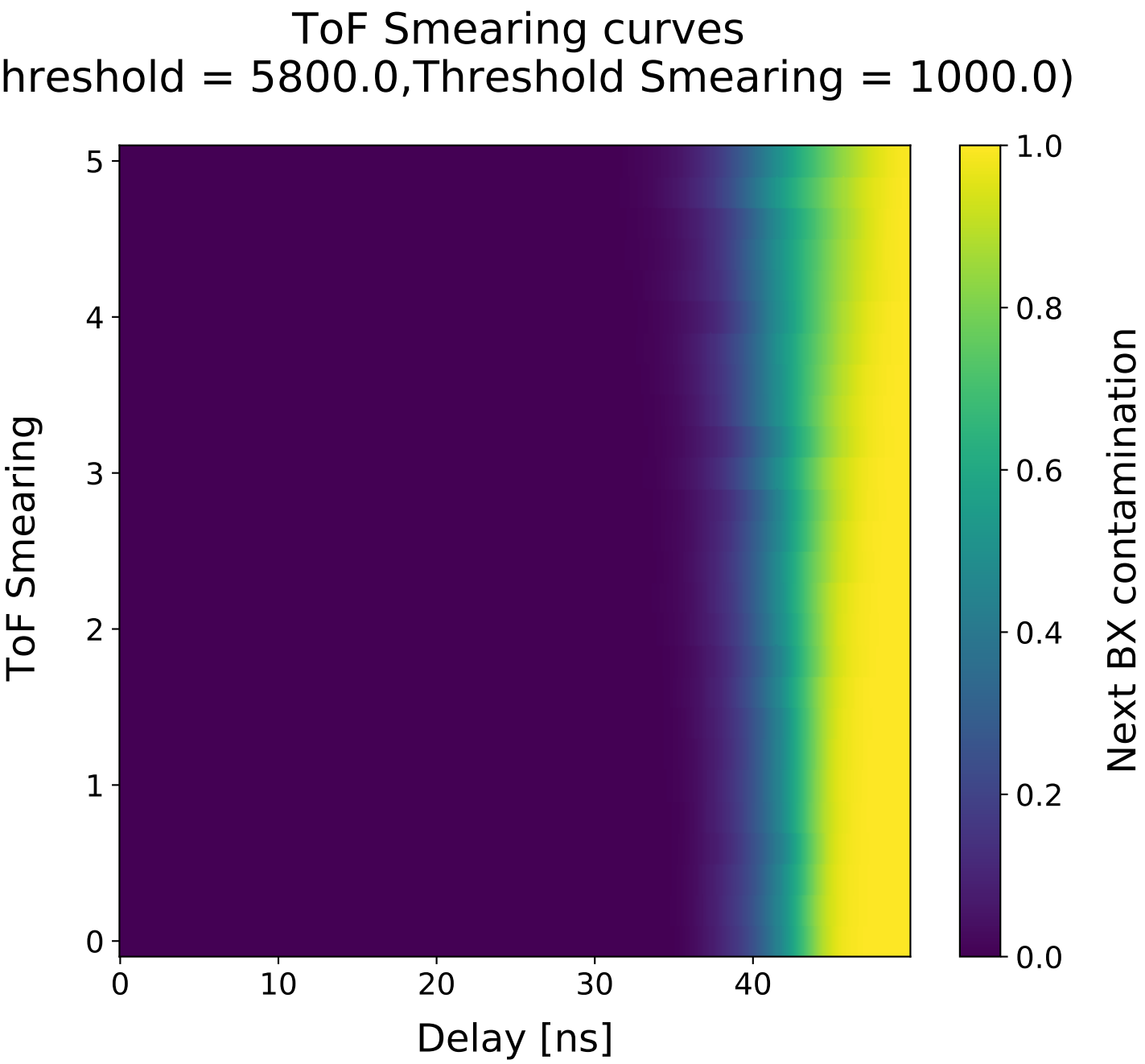

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

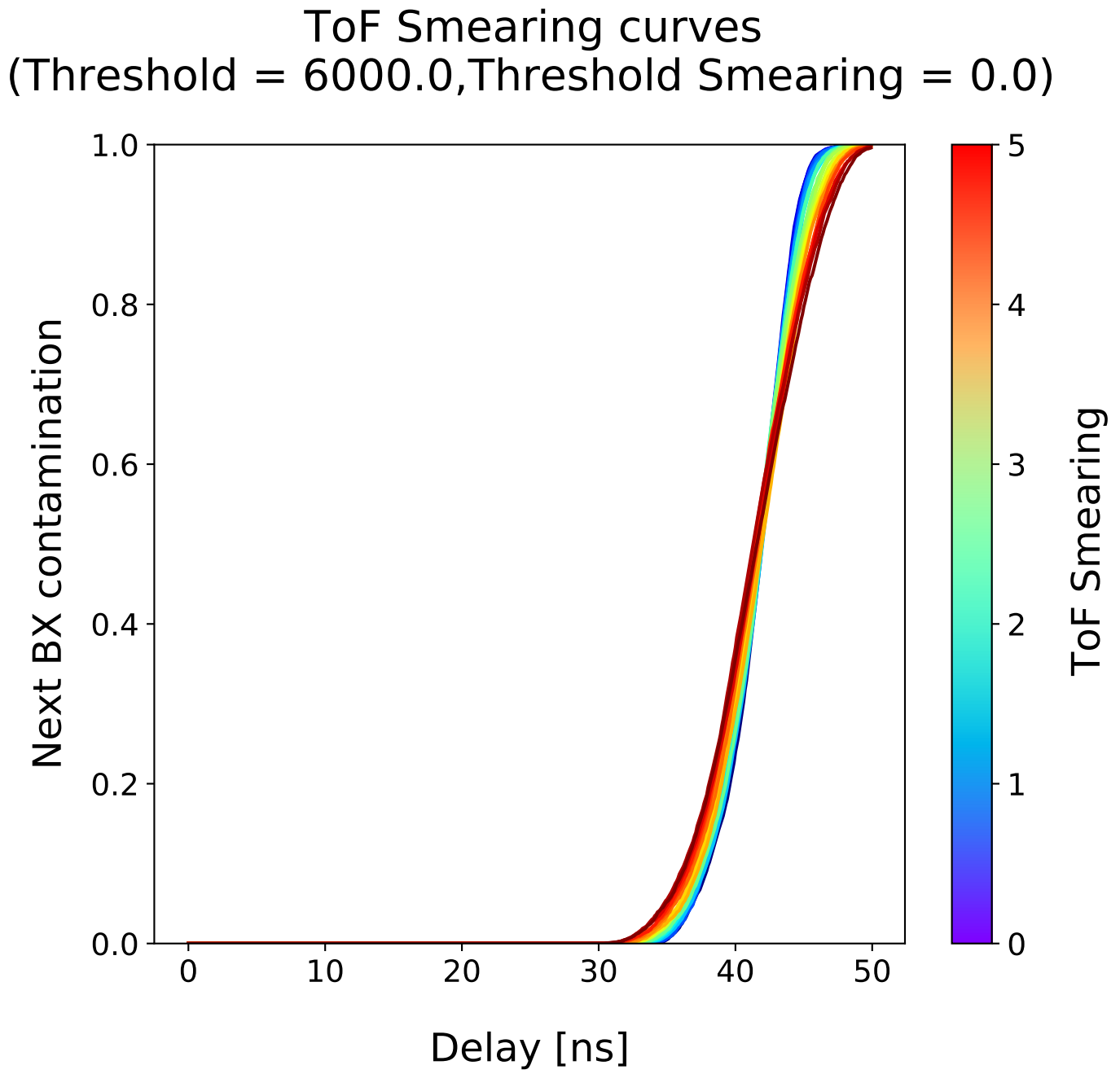

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

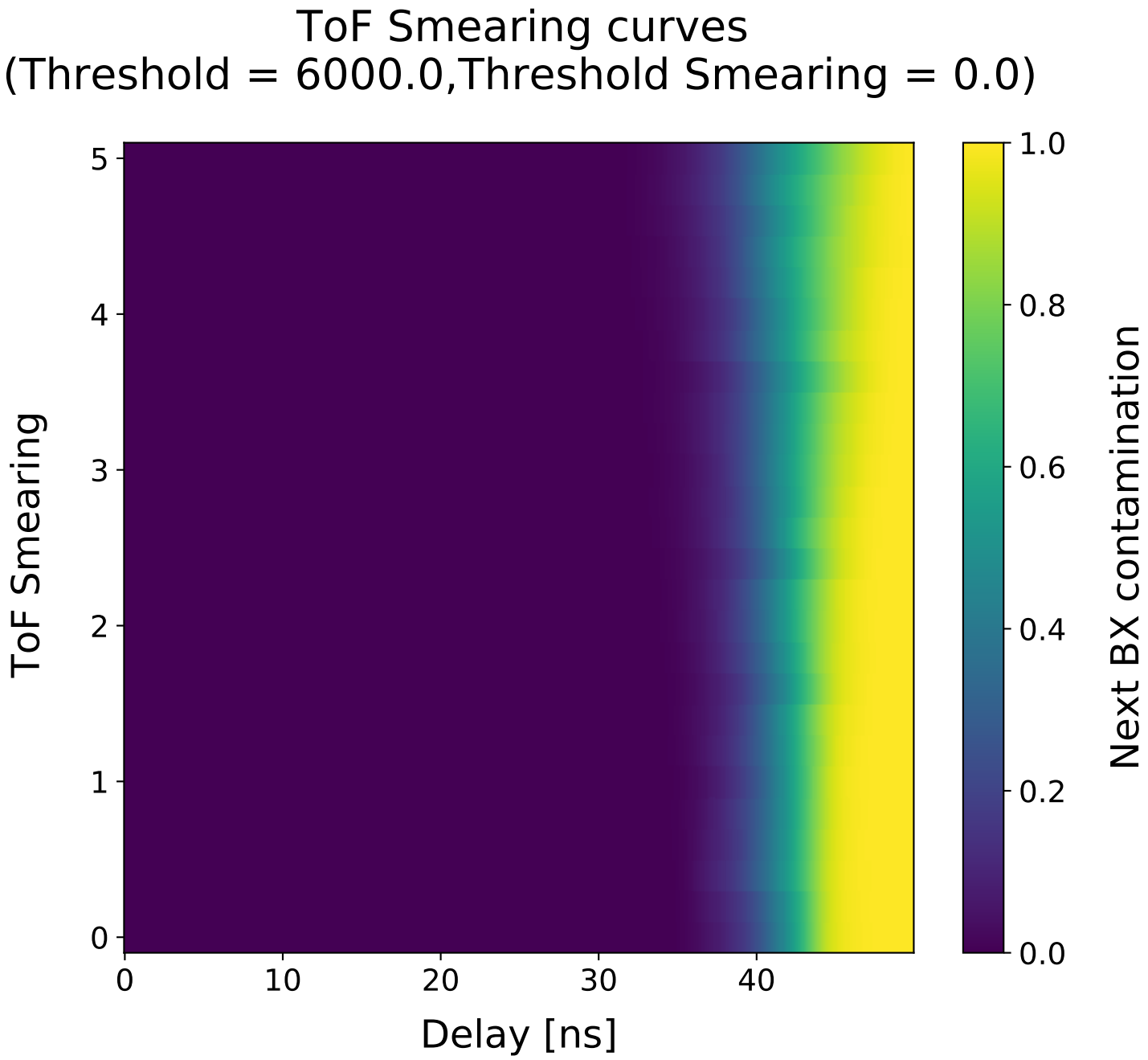

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

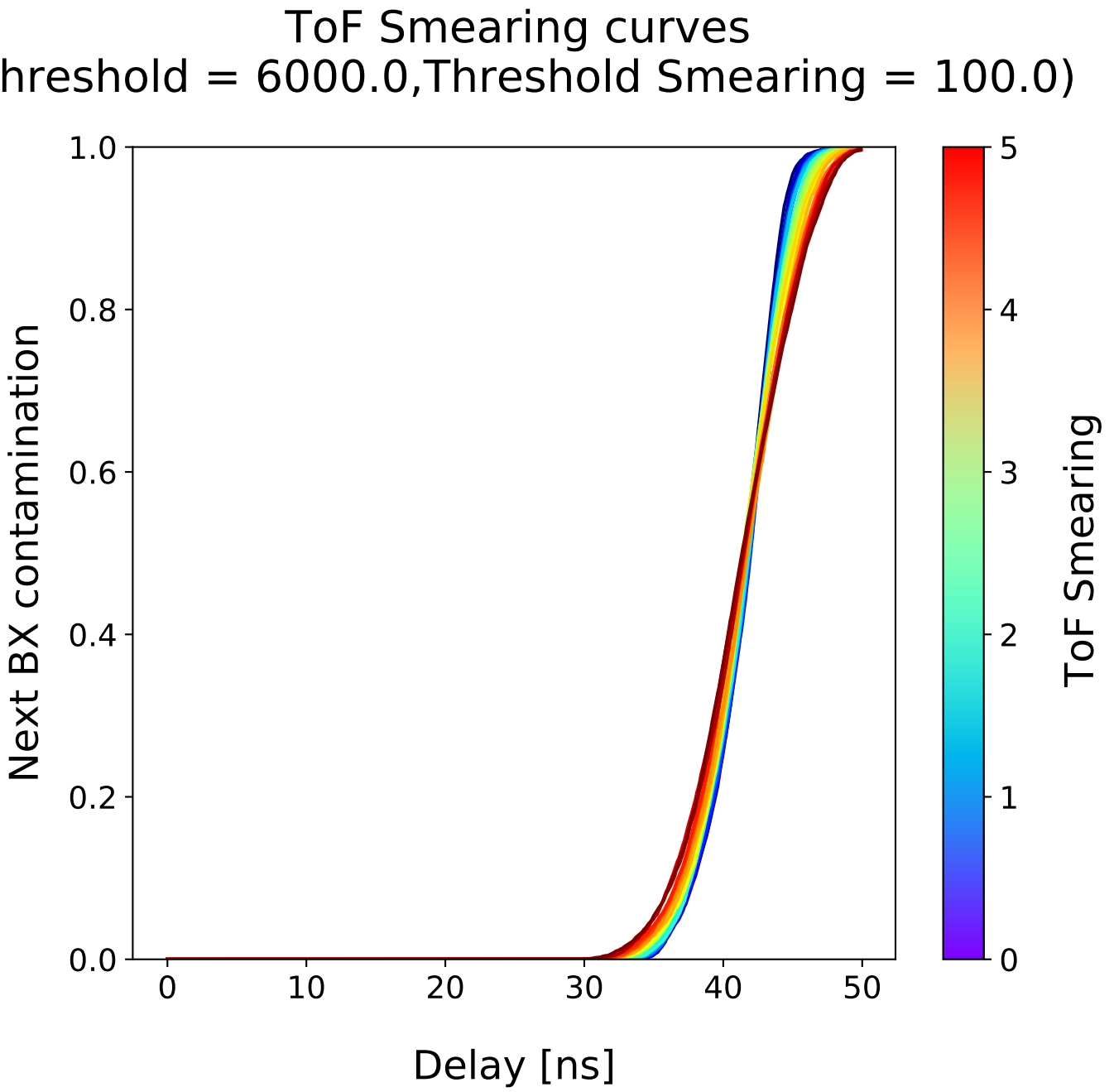

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

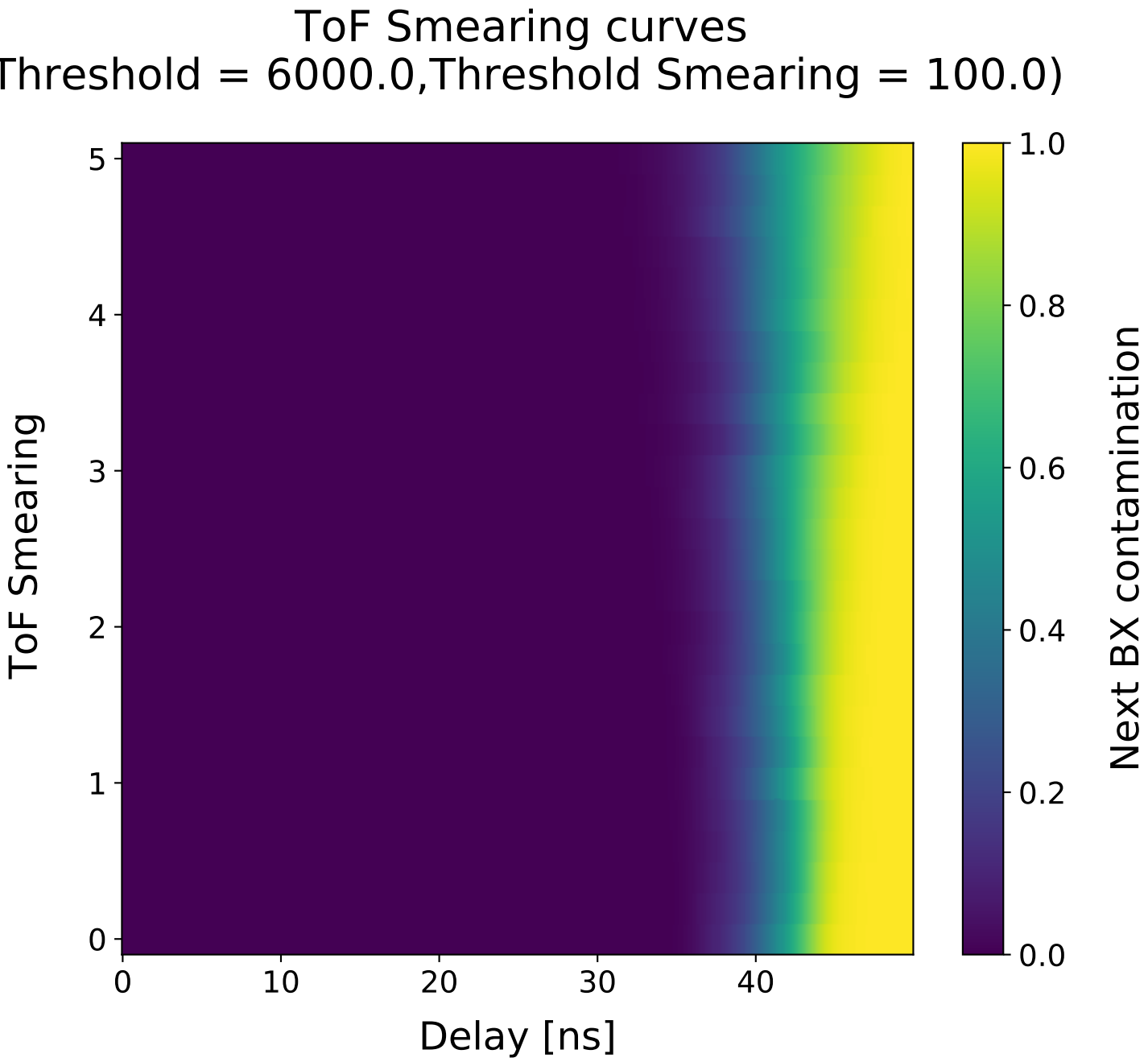

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

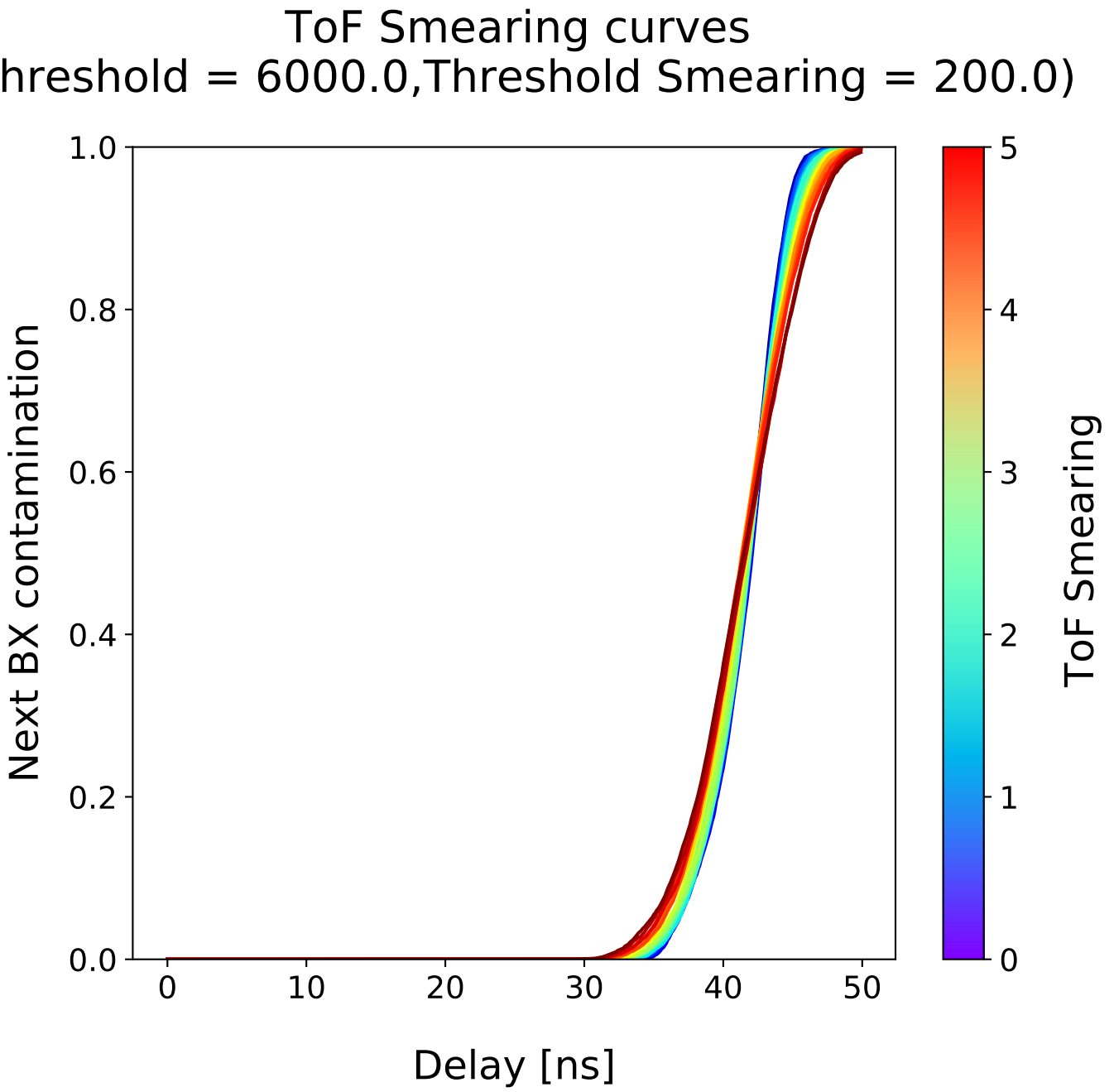

ToF Smearing curves
(Threshold = 5800.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

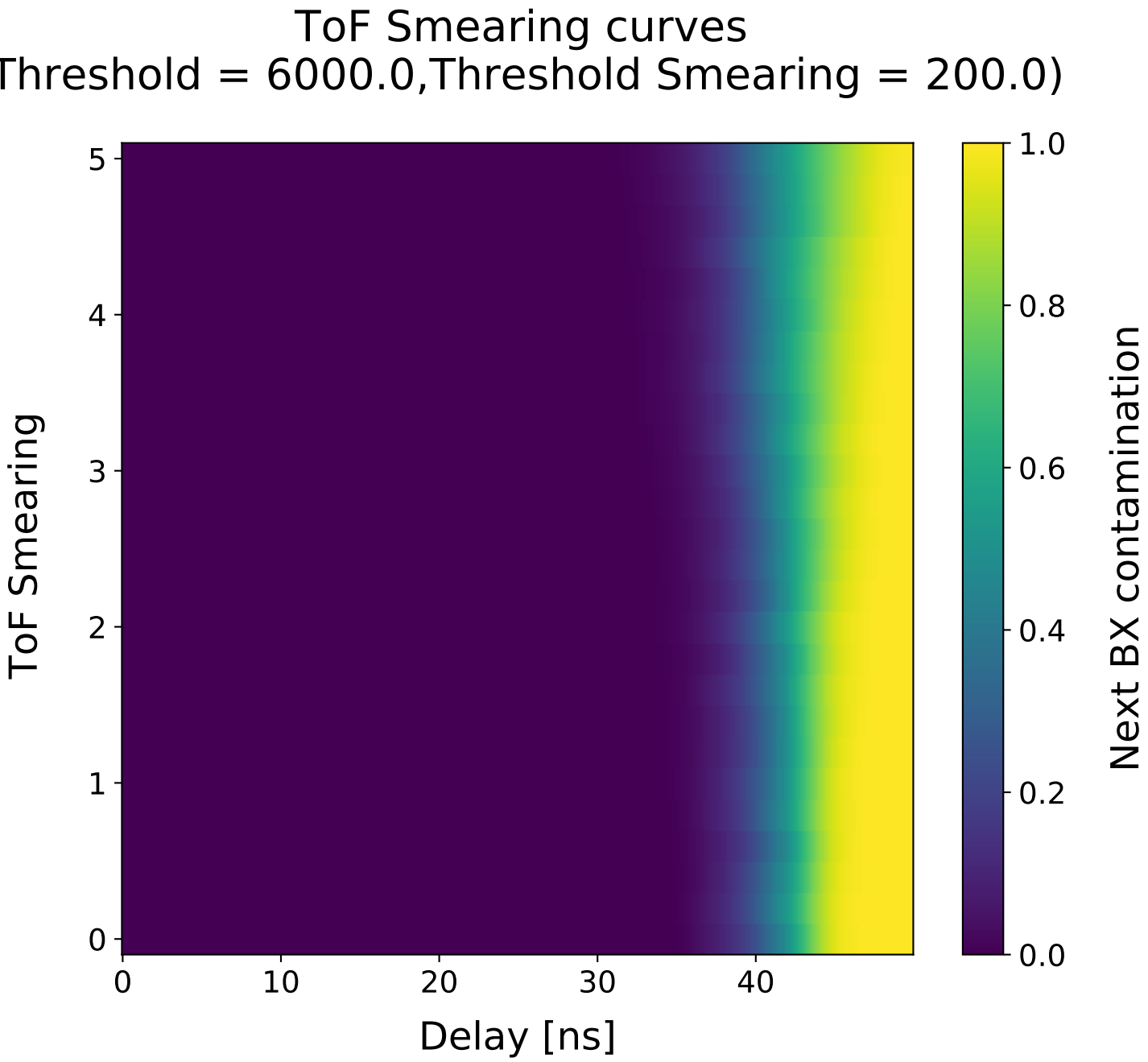

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

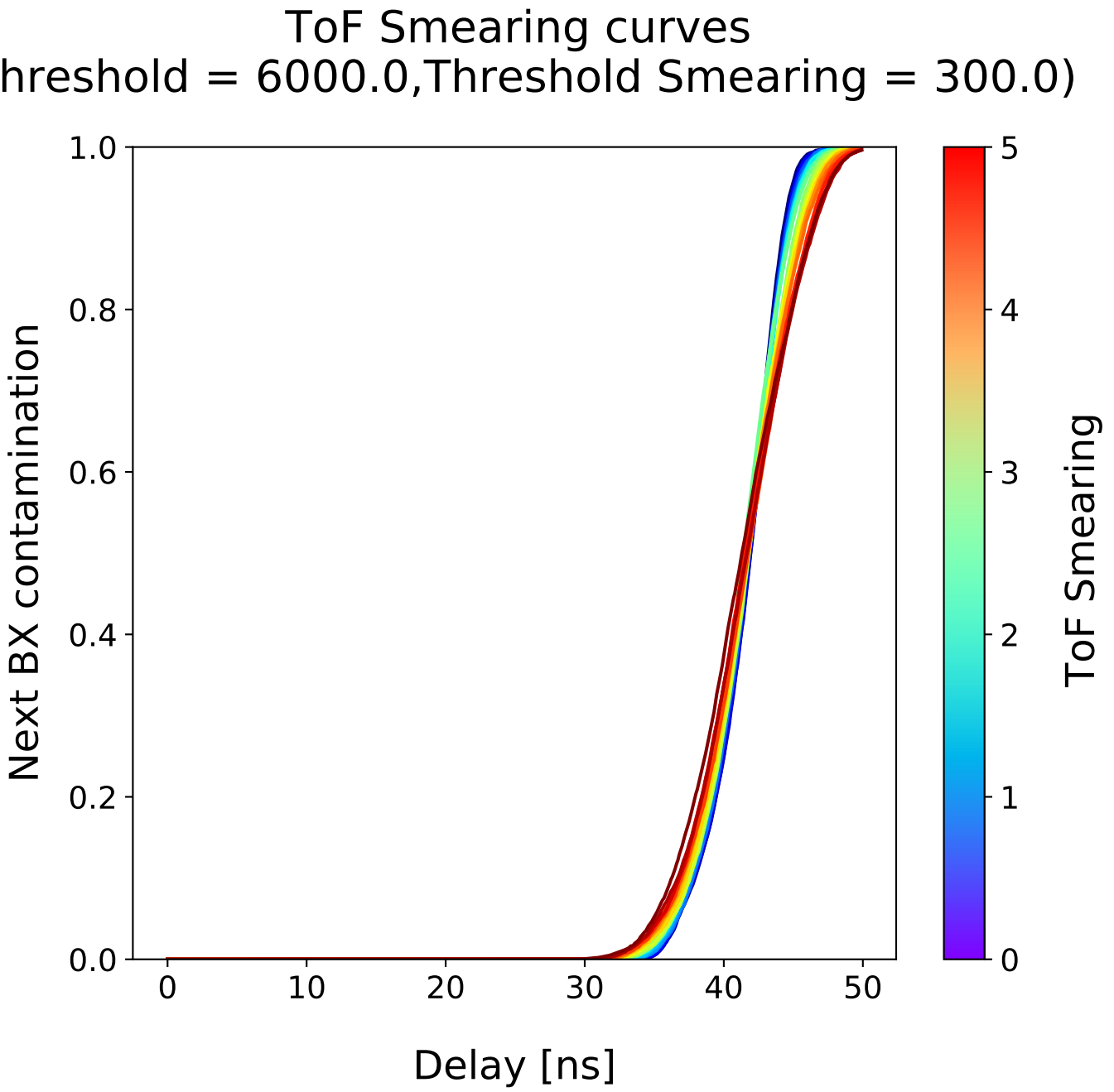

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

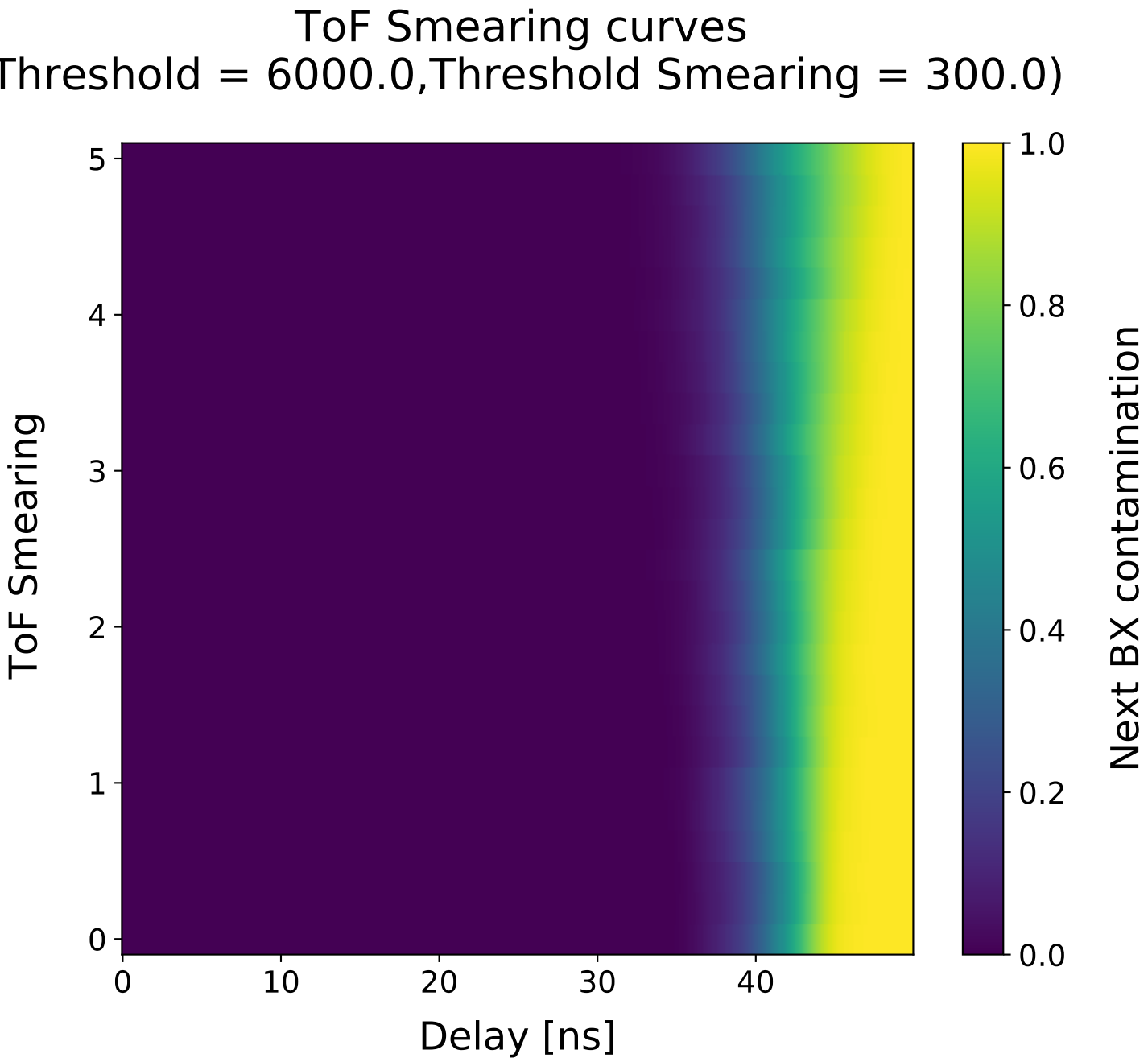

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

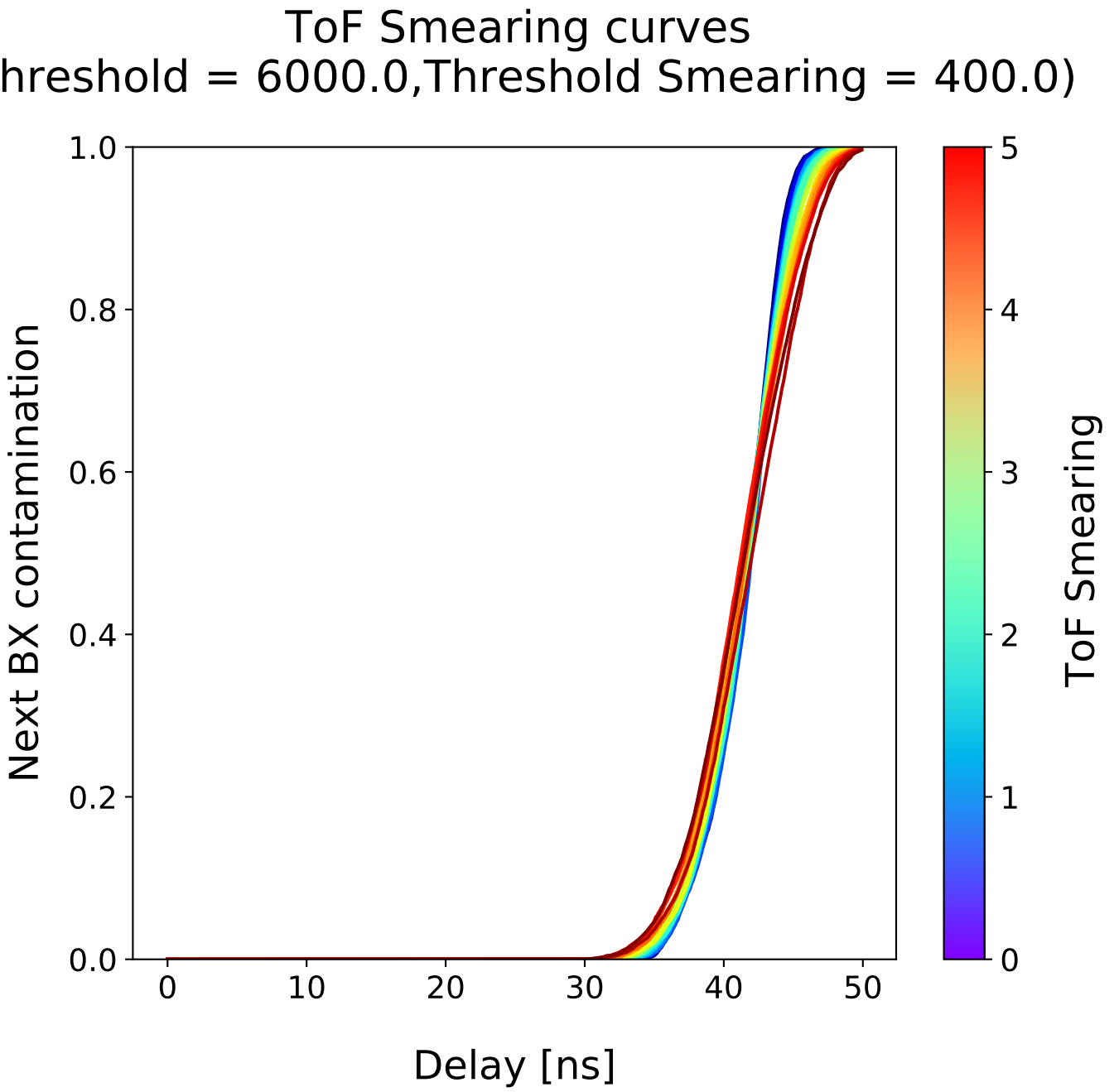

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

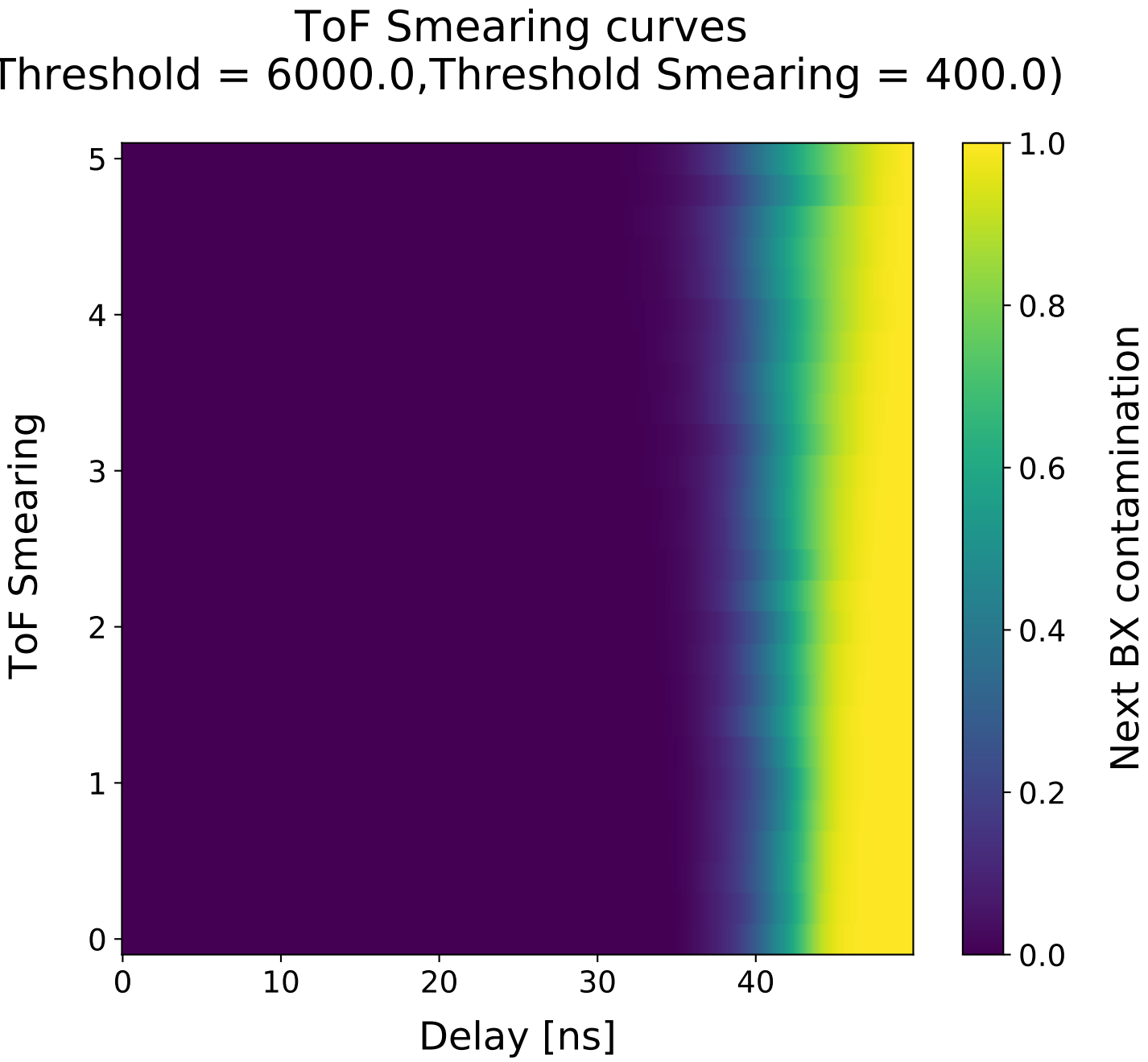

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

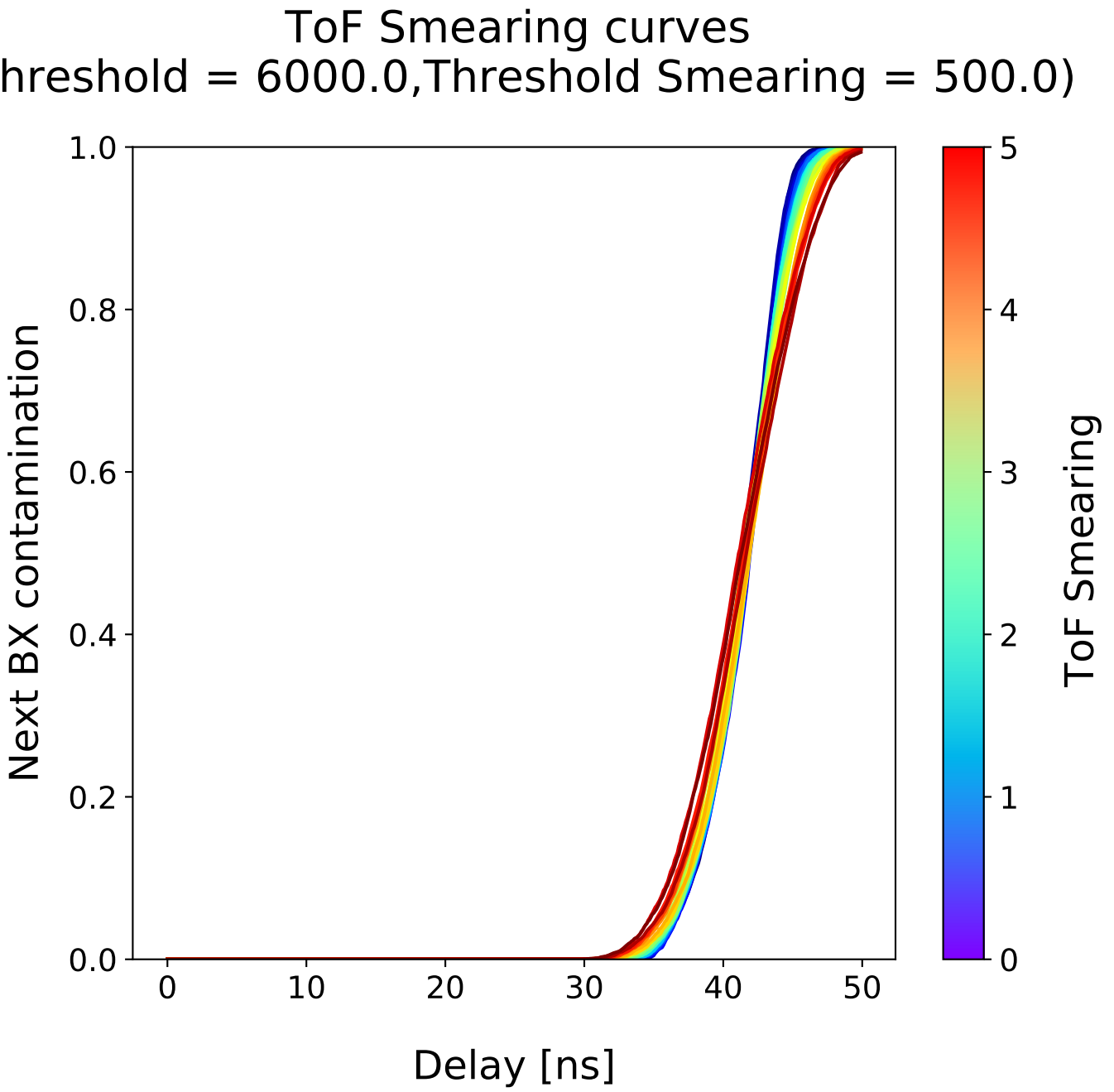

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

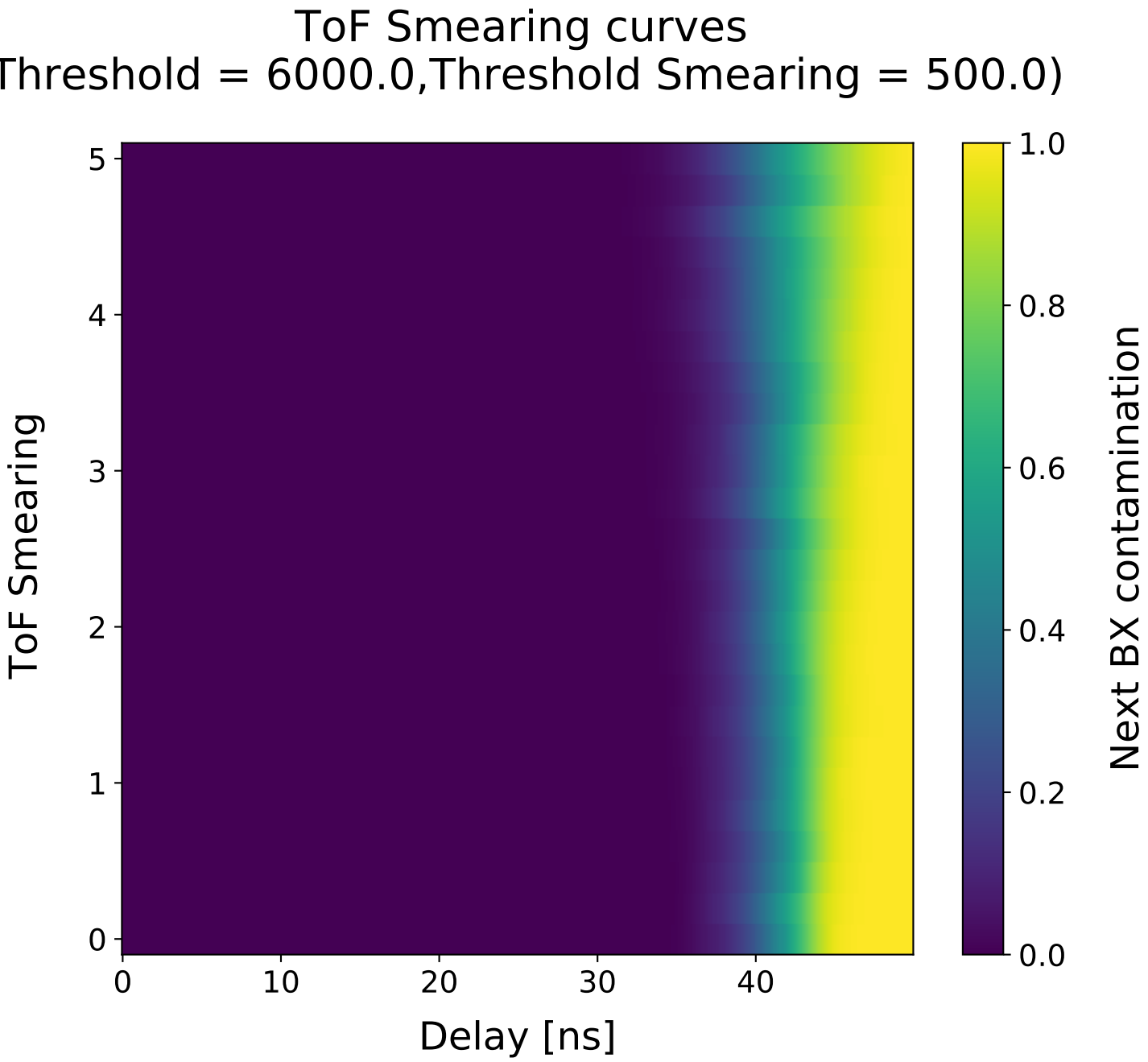

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

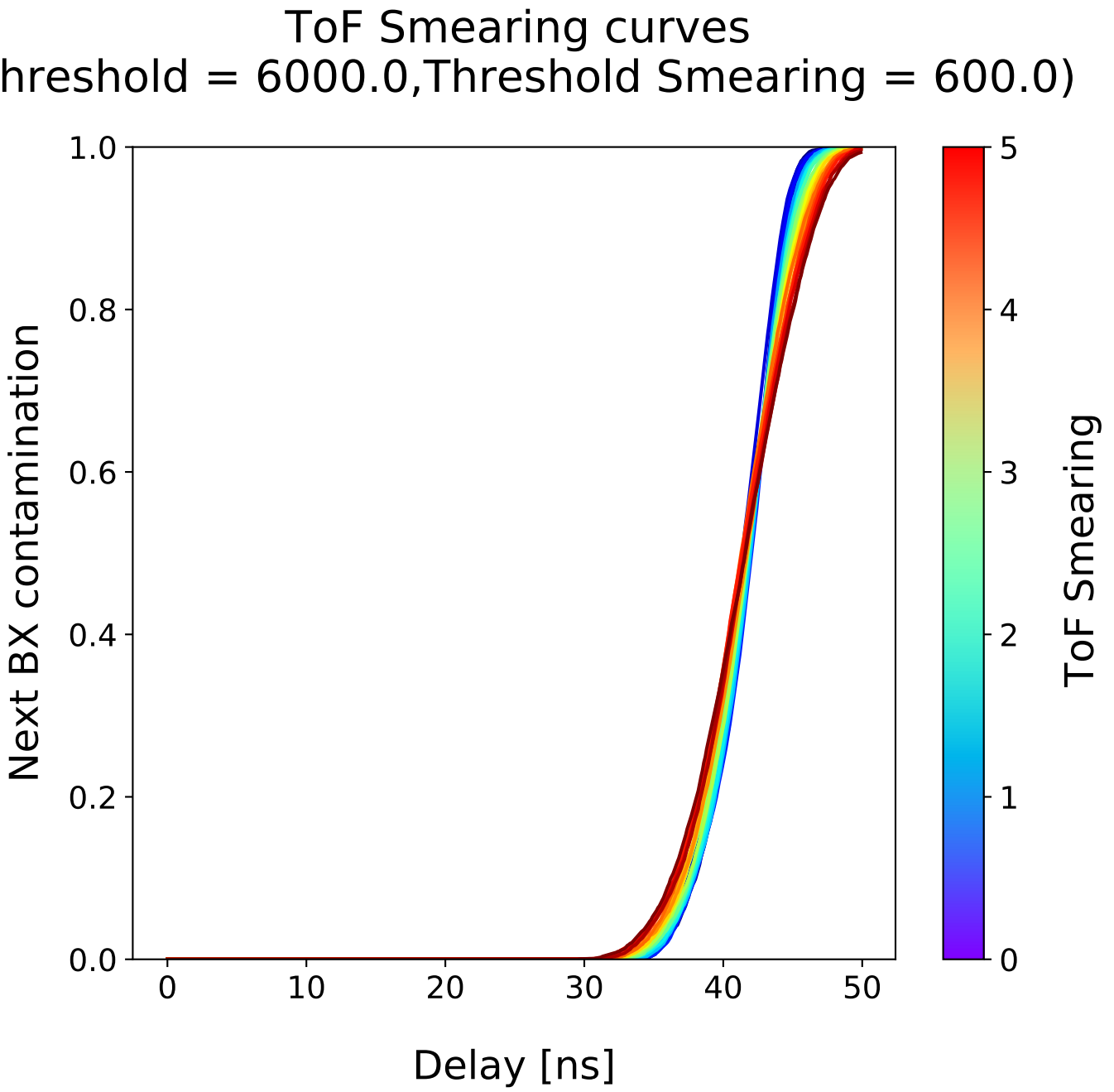

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

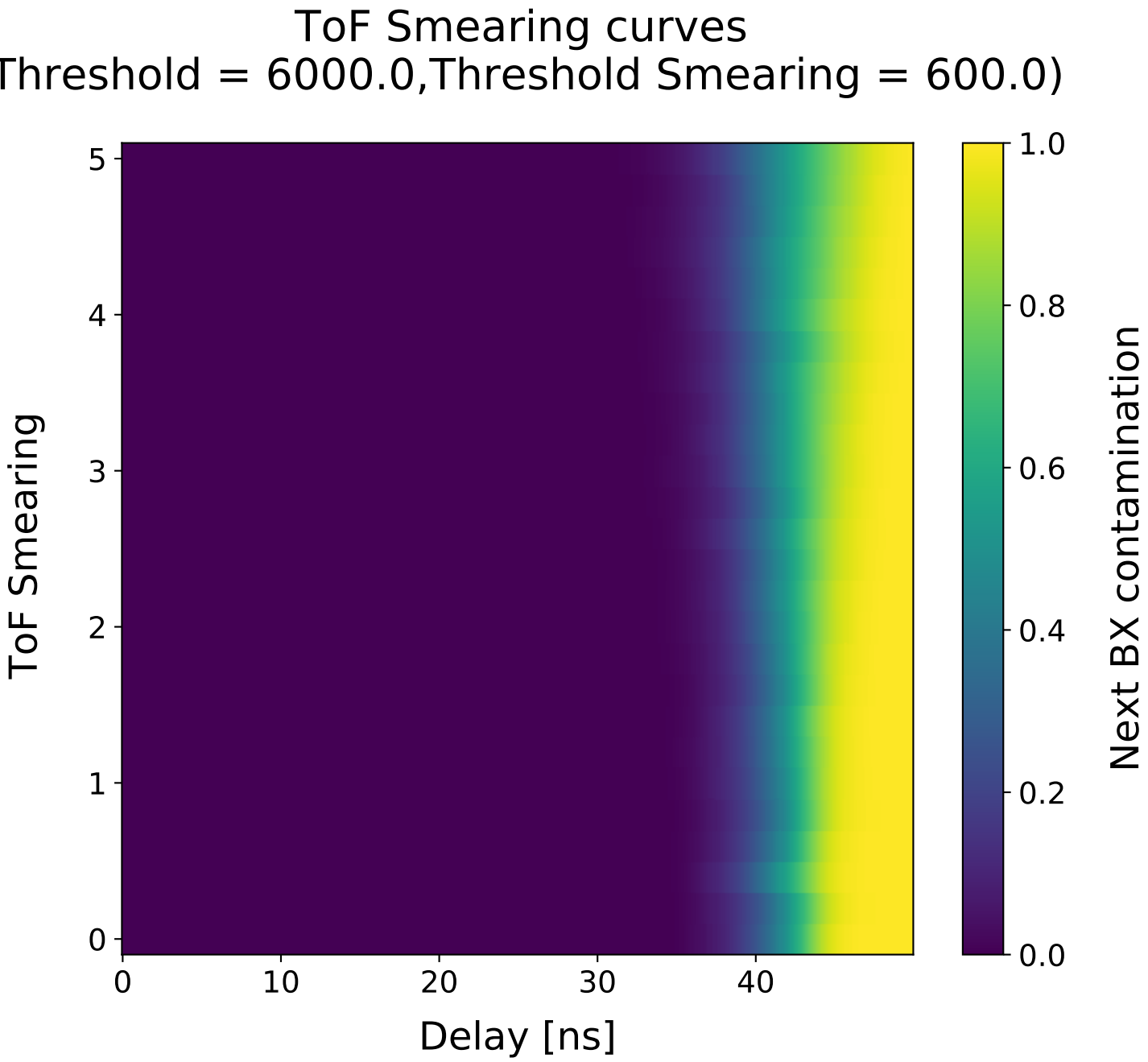

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

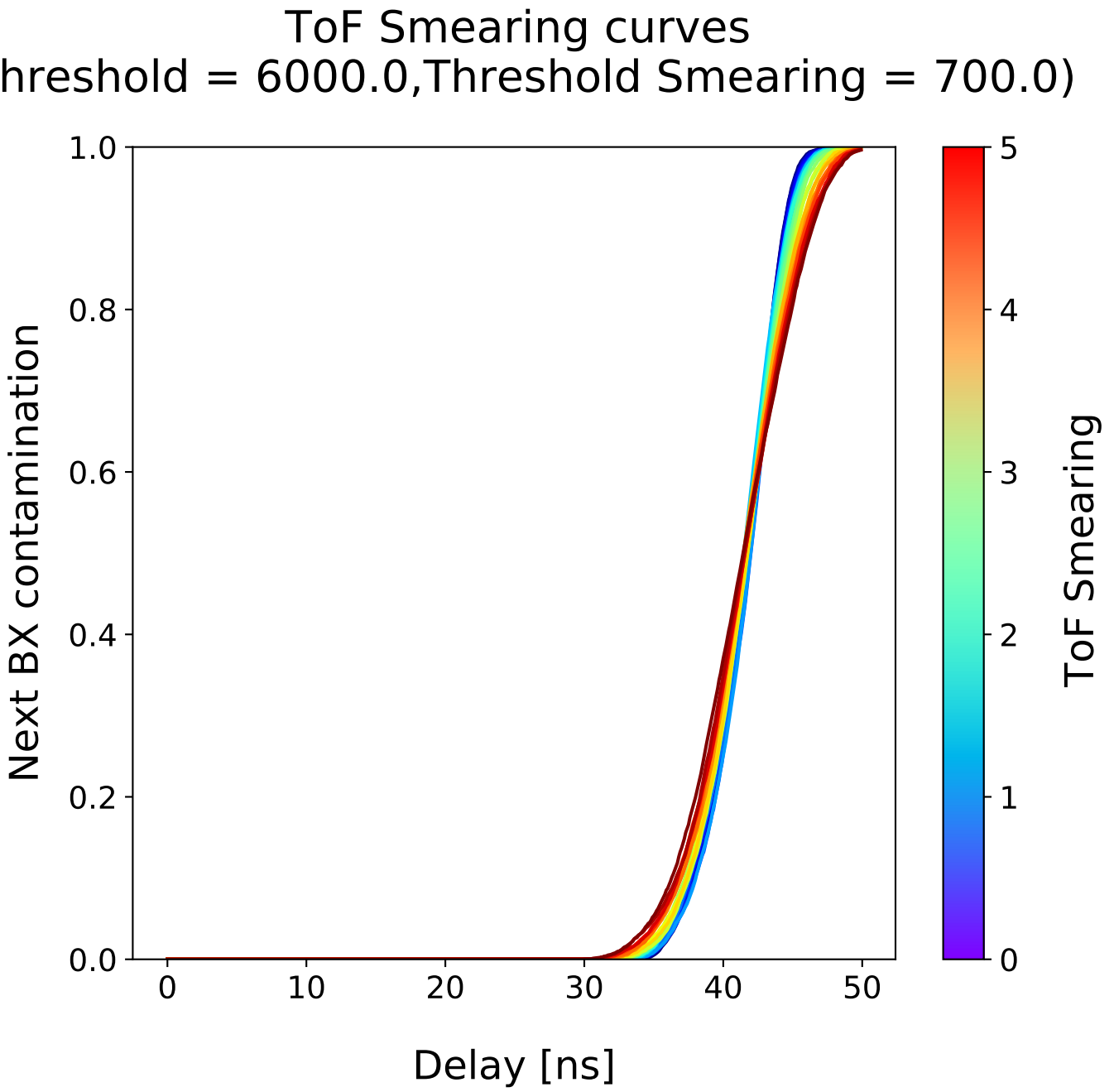

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

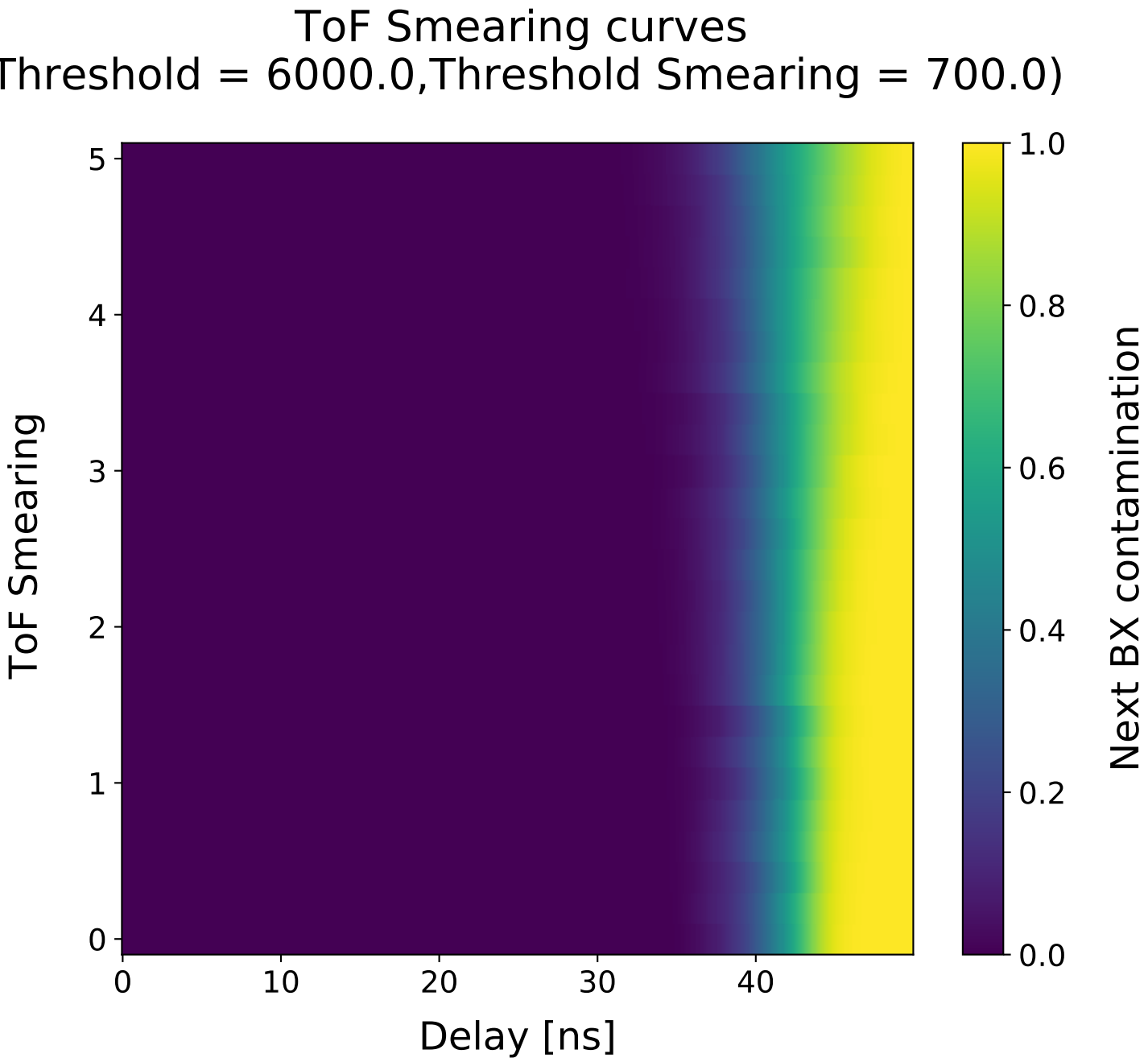

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

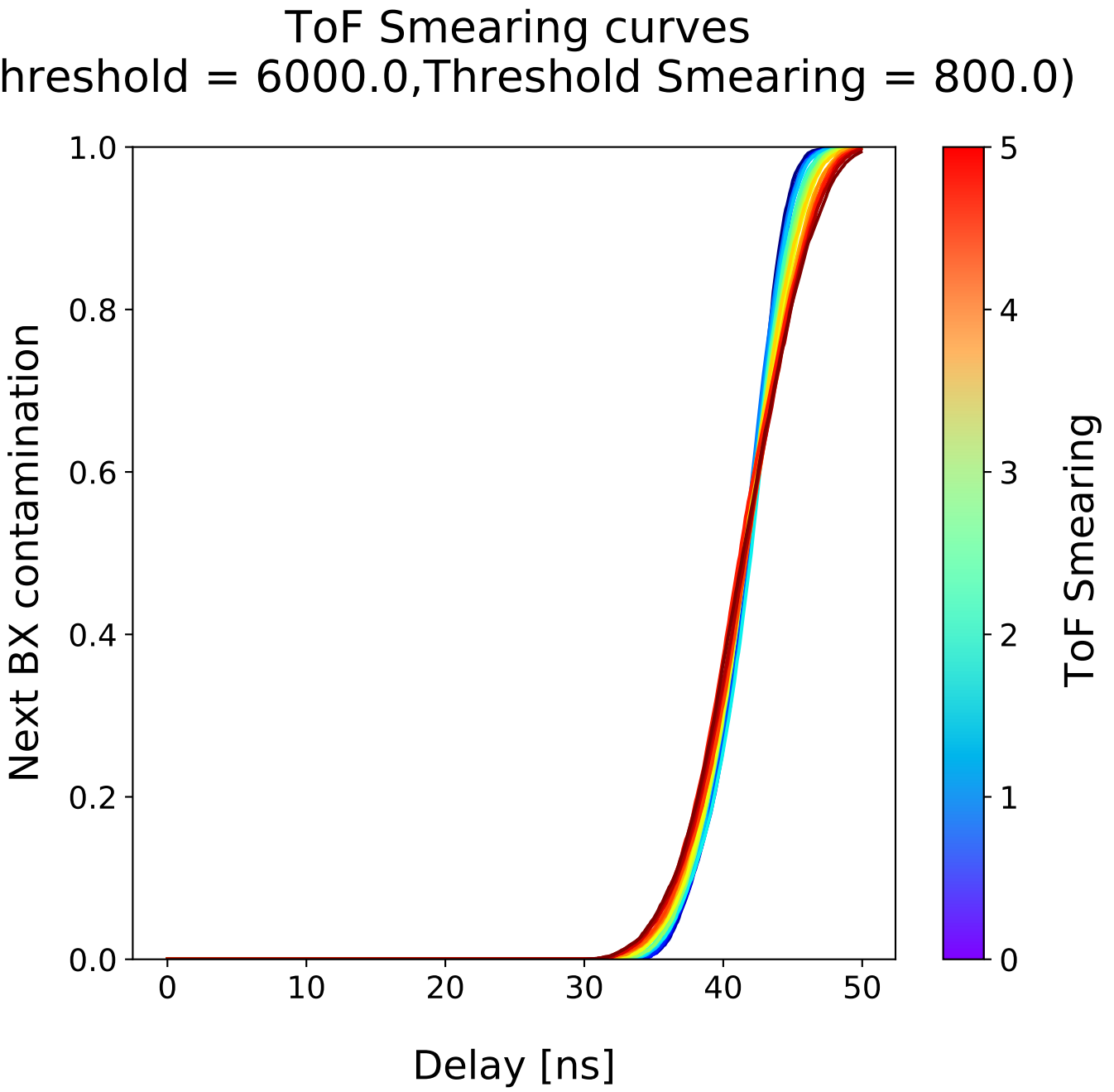

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

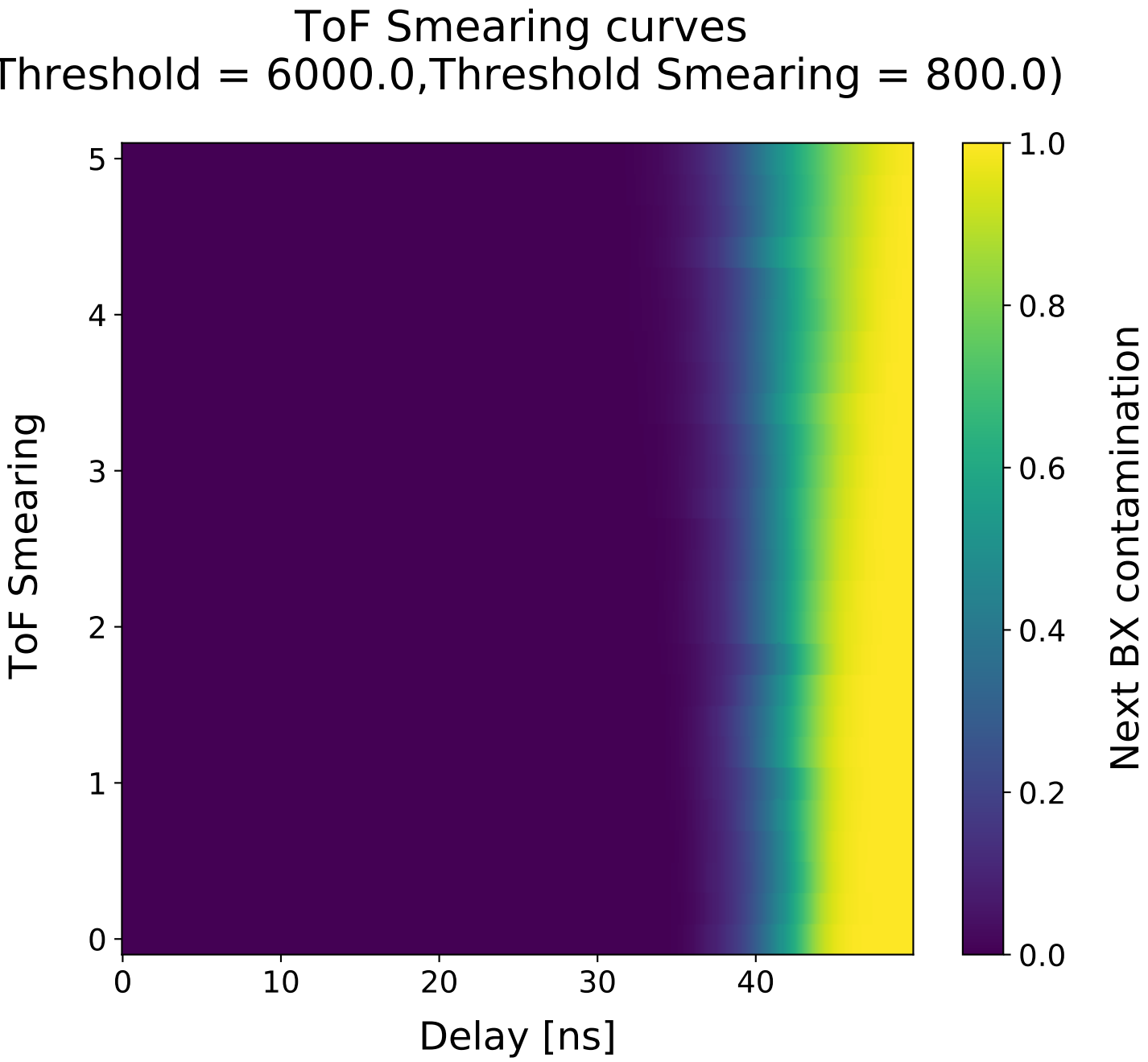

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

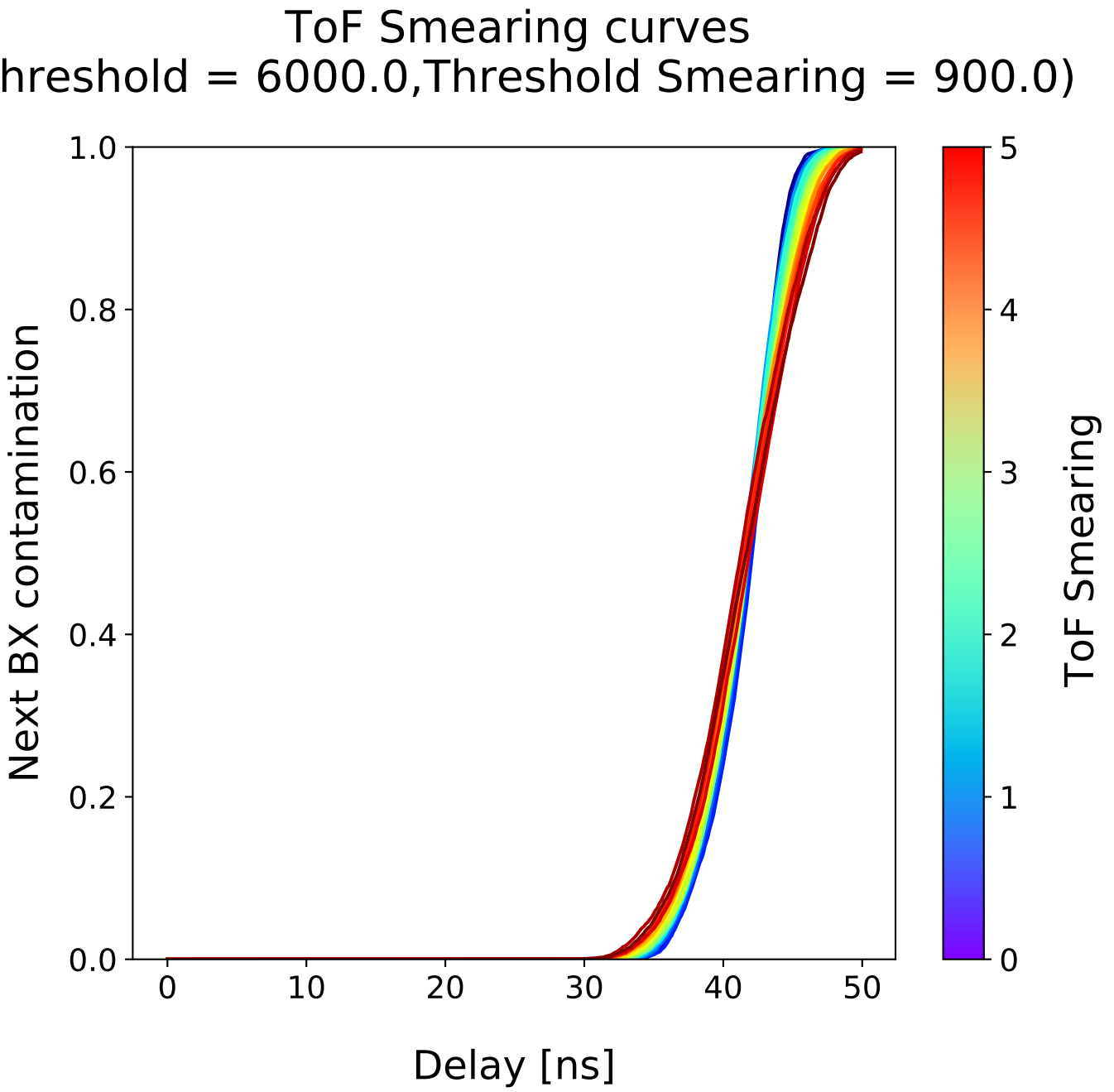

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

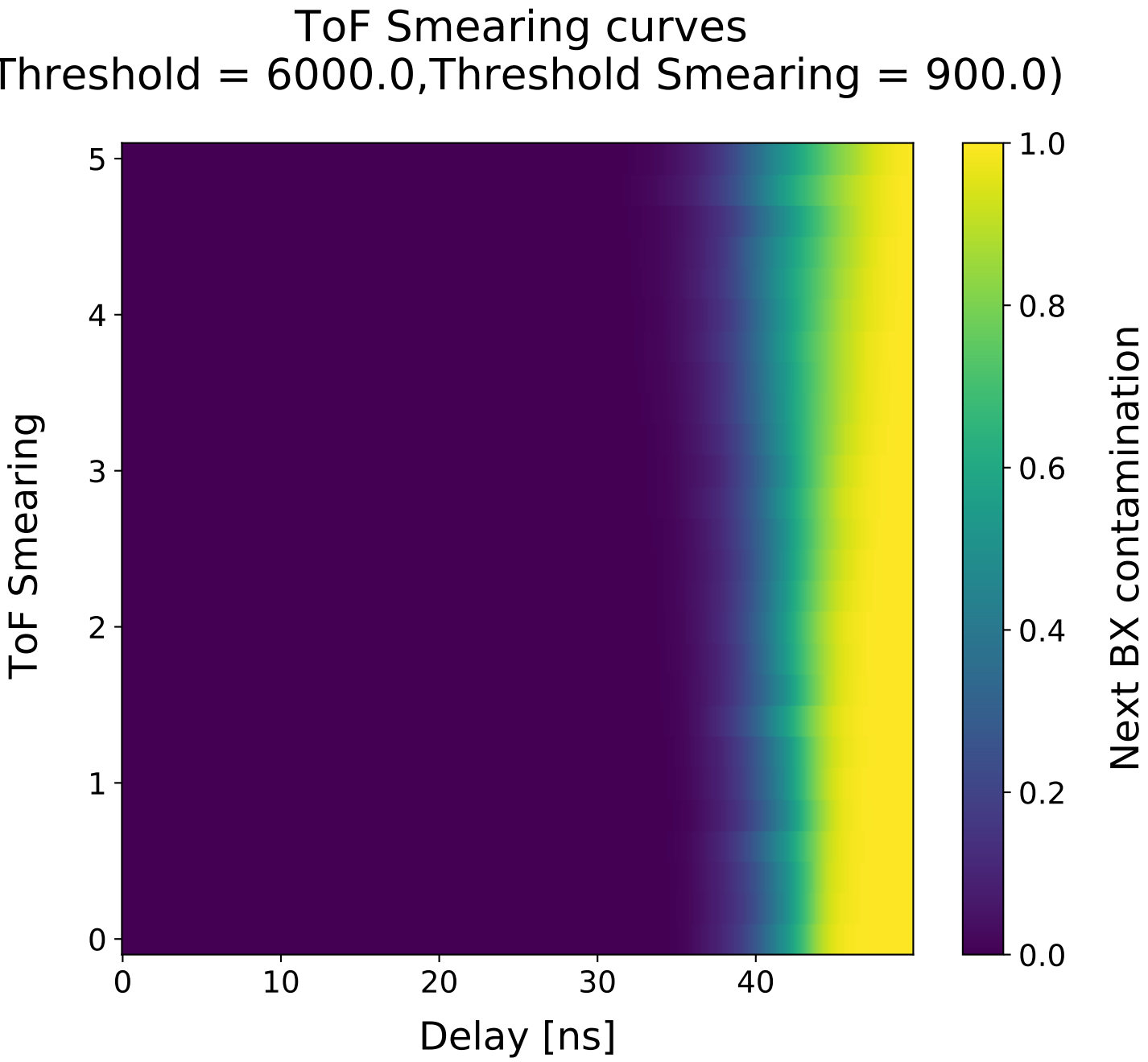

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

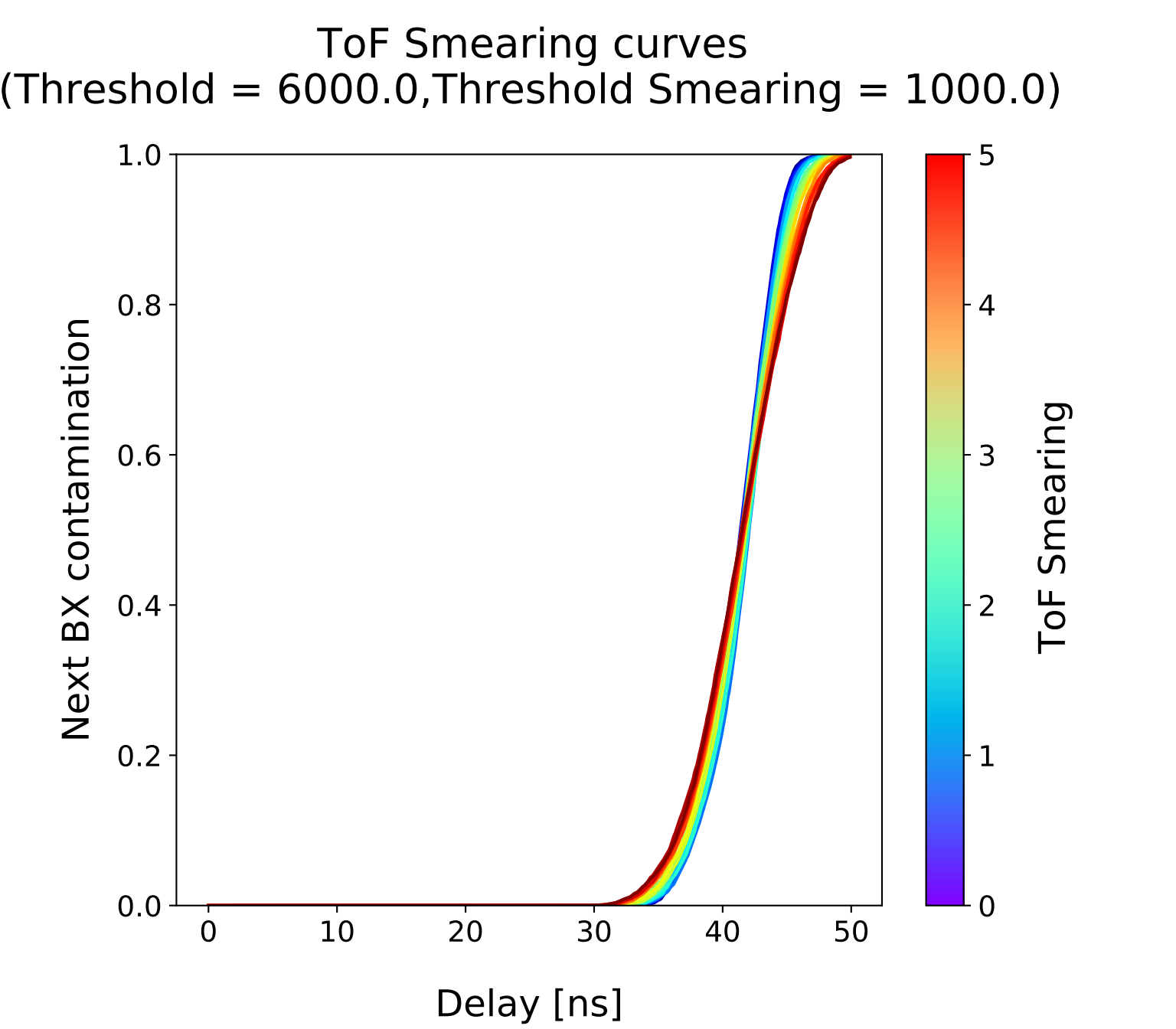

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

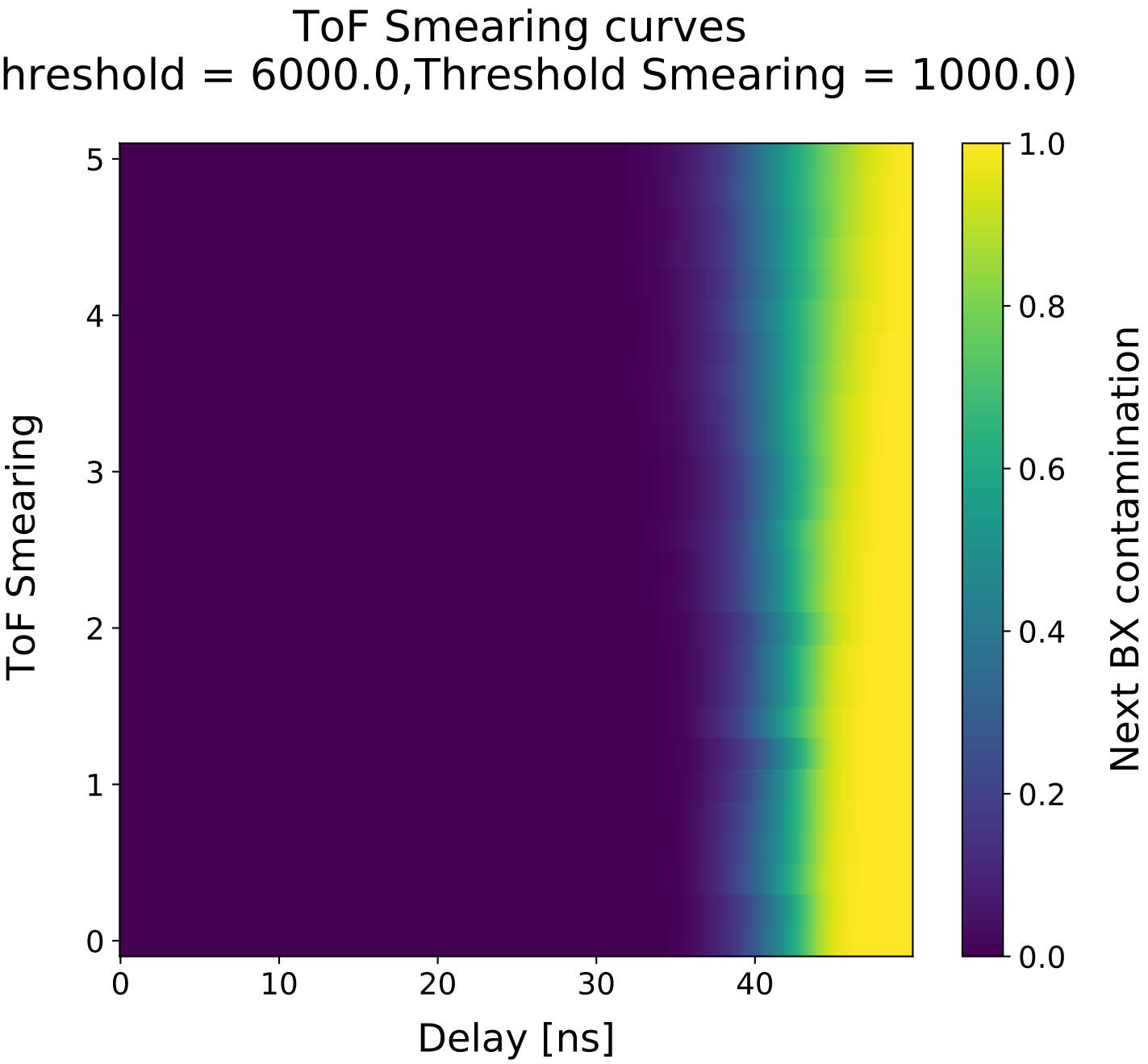

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

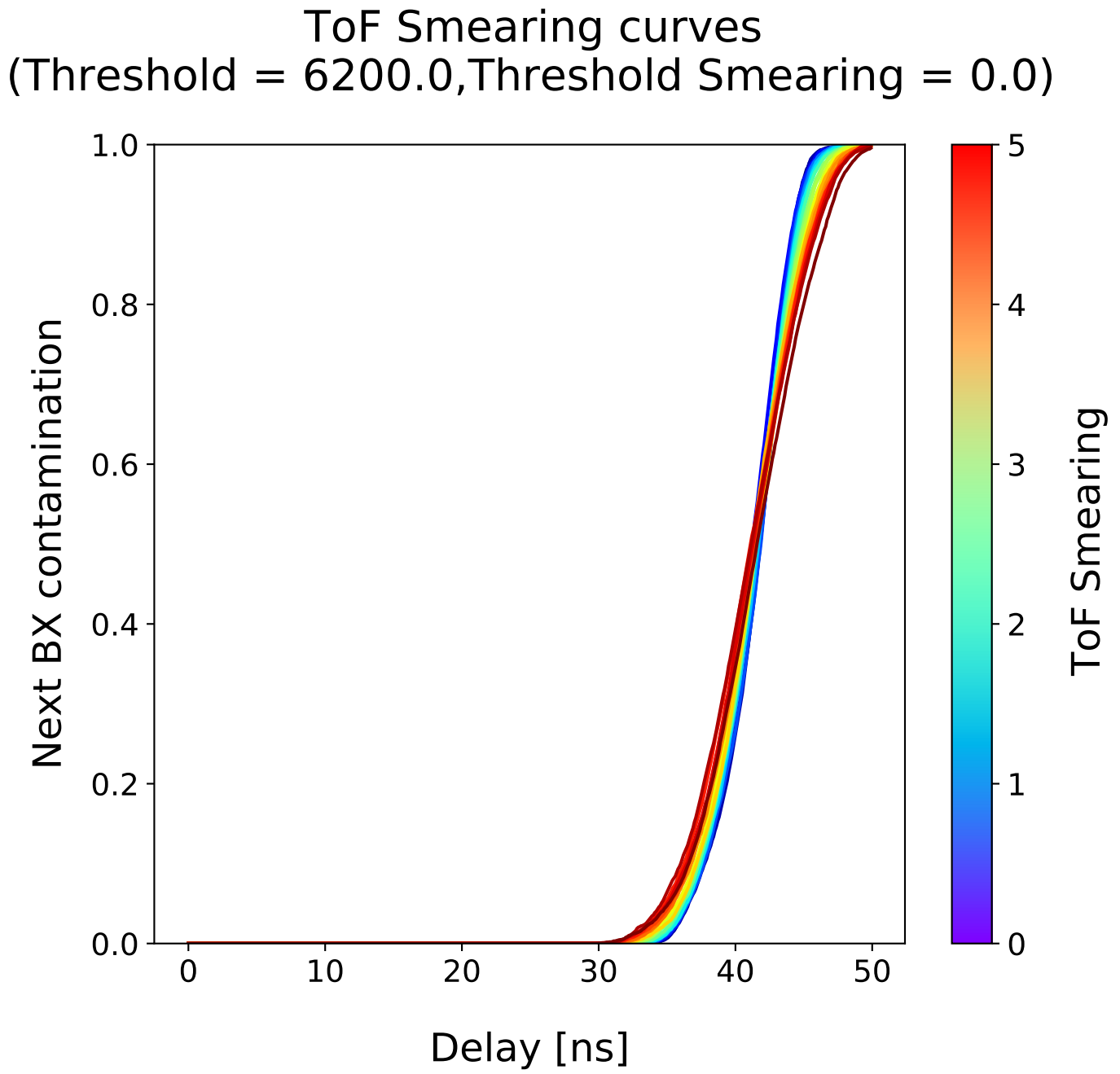

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

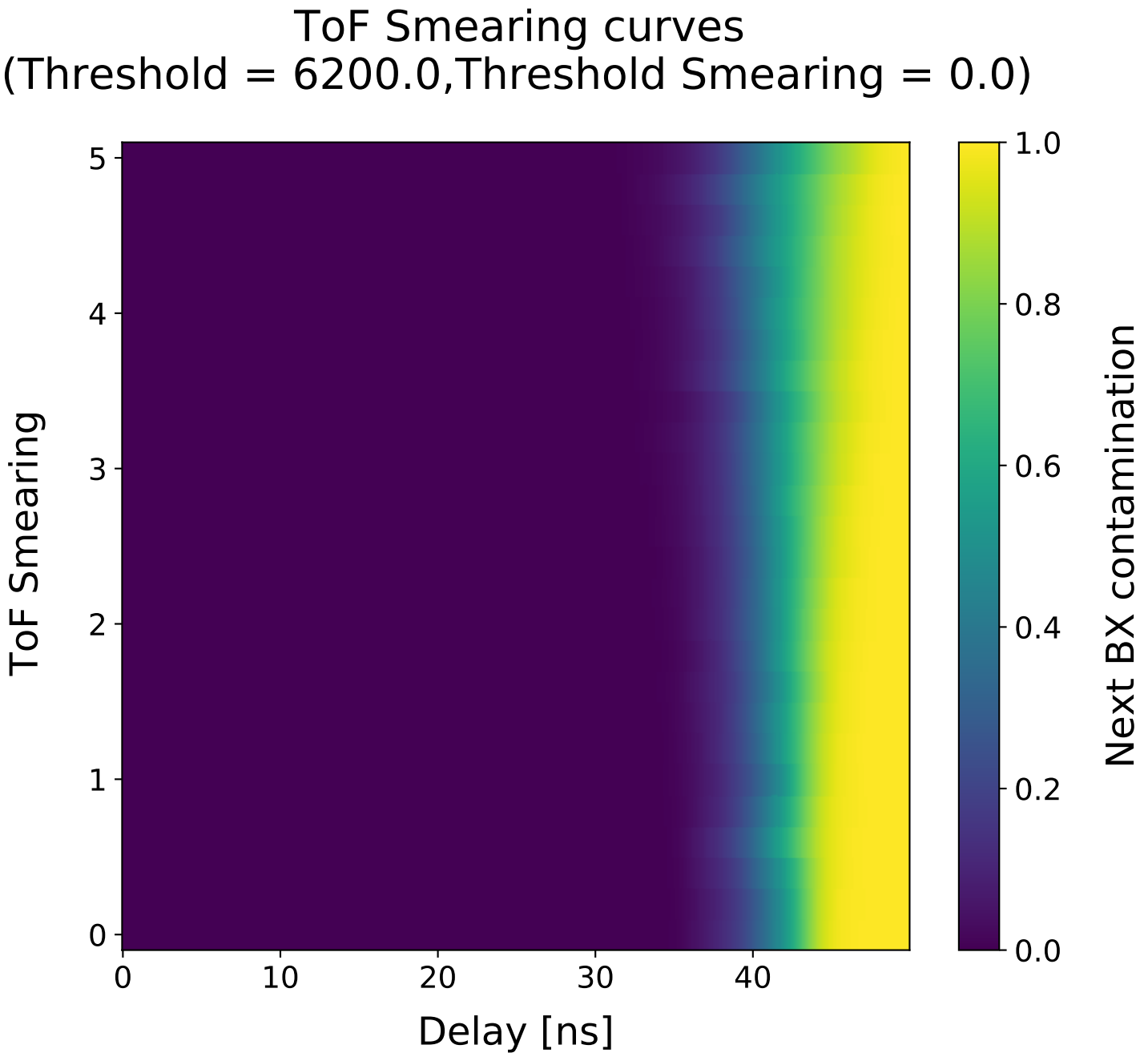

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

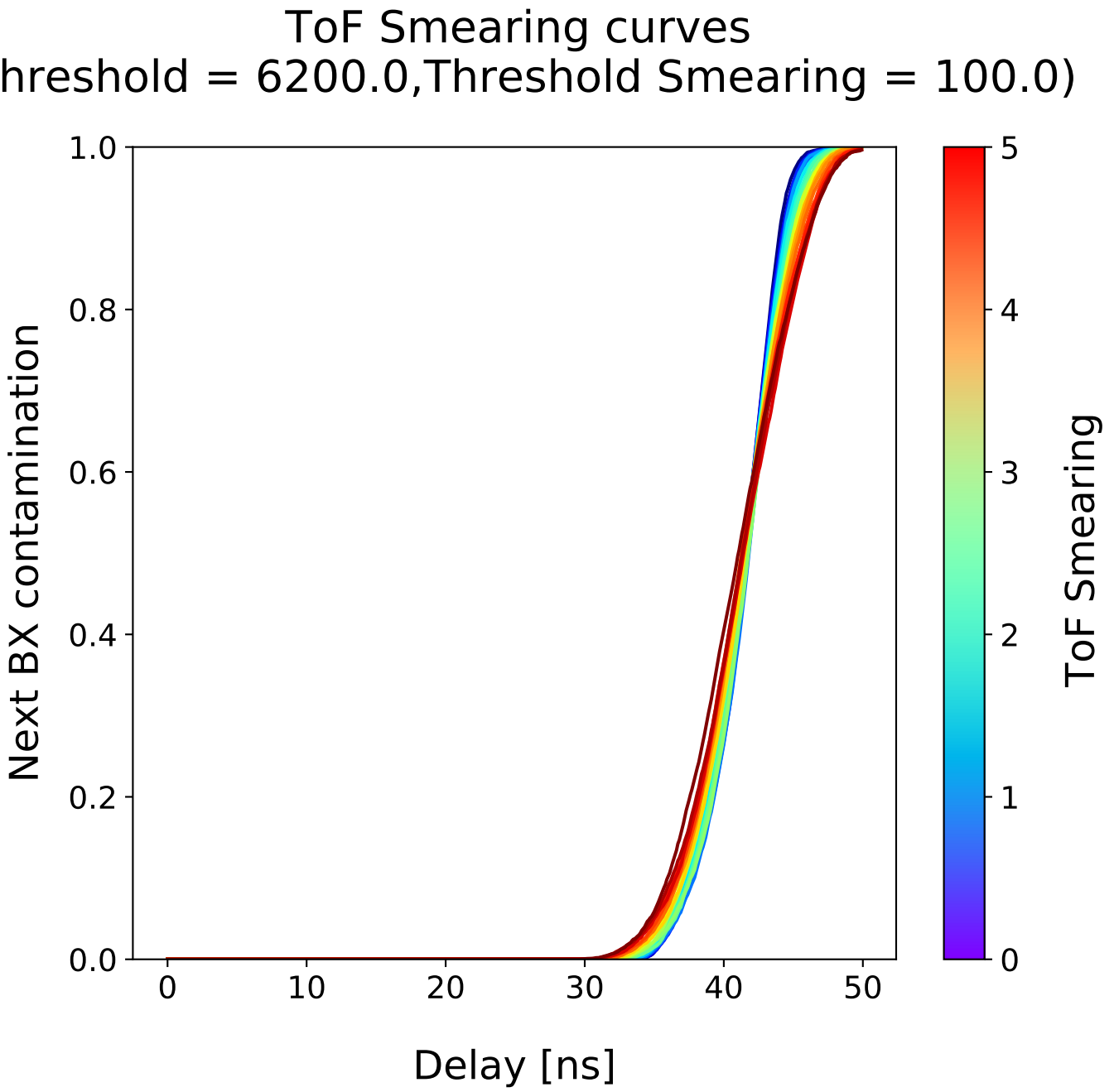

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

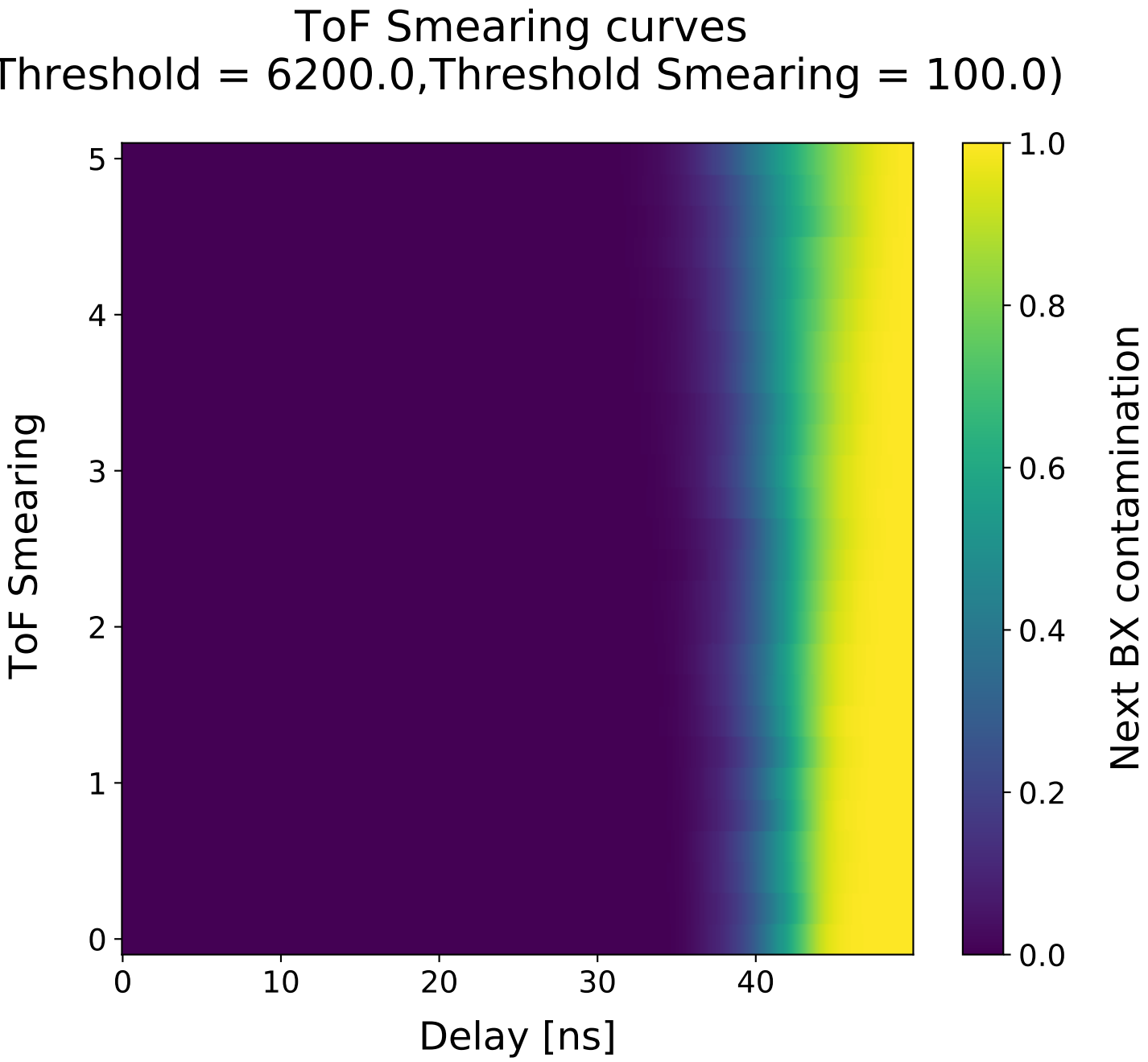

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

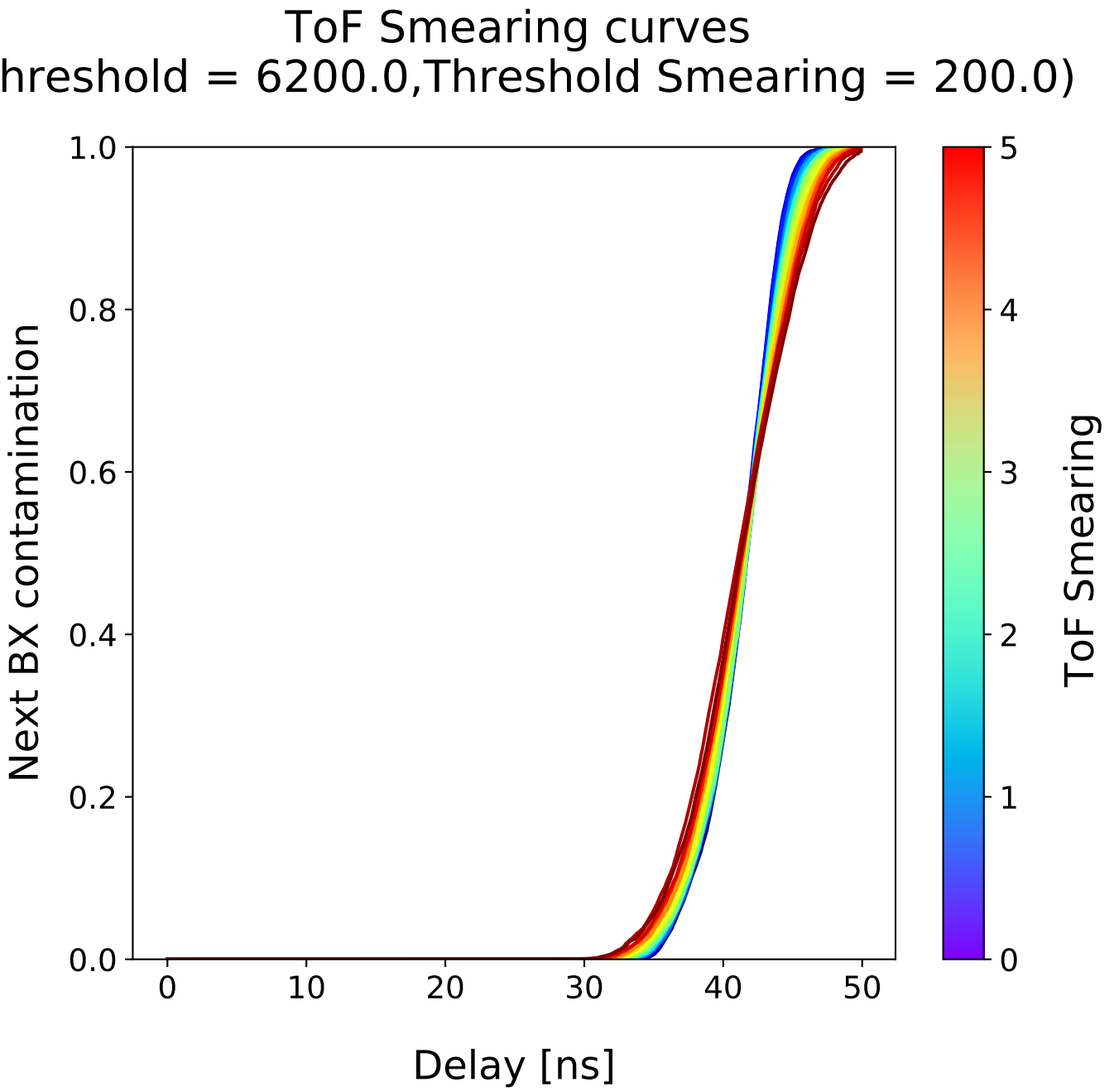

ToF Smearing curves
(Threshold = 6000.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

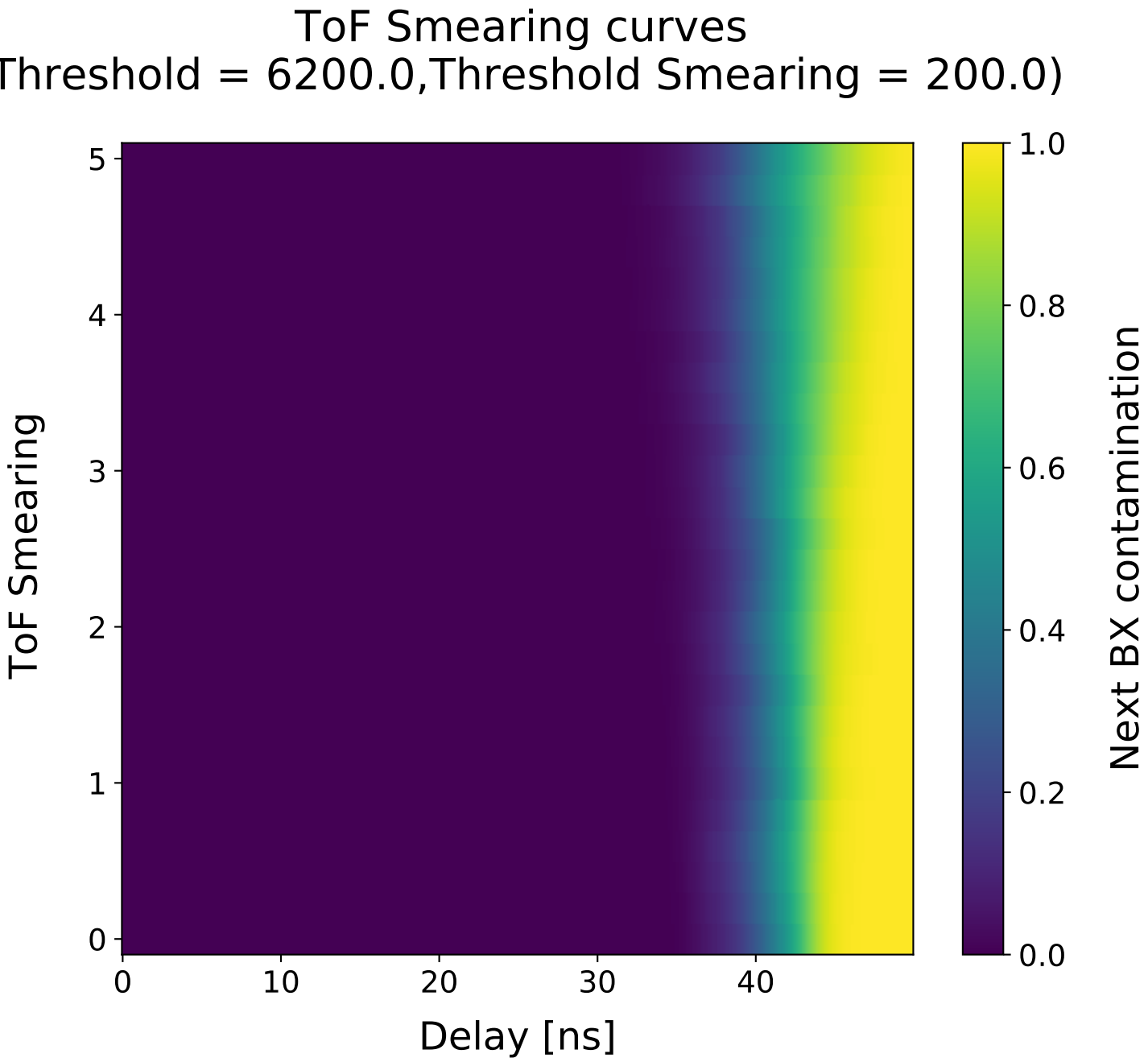

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

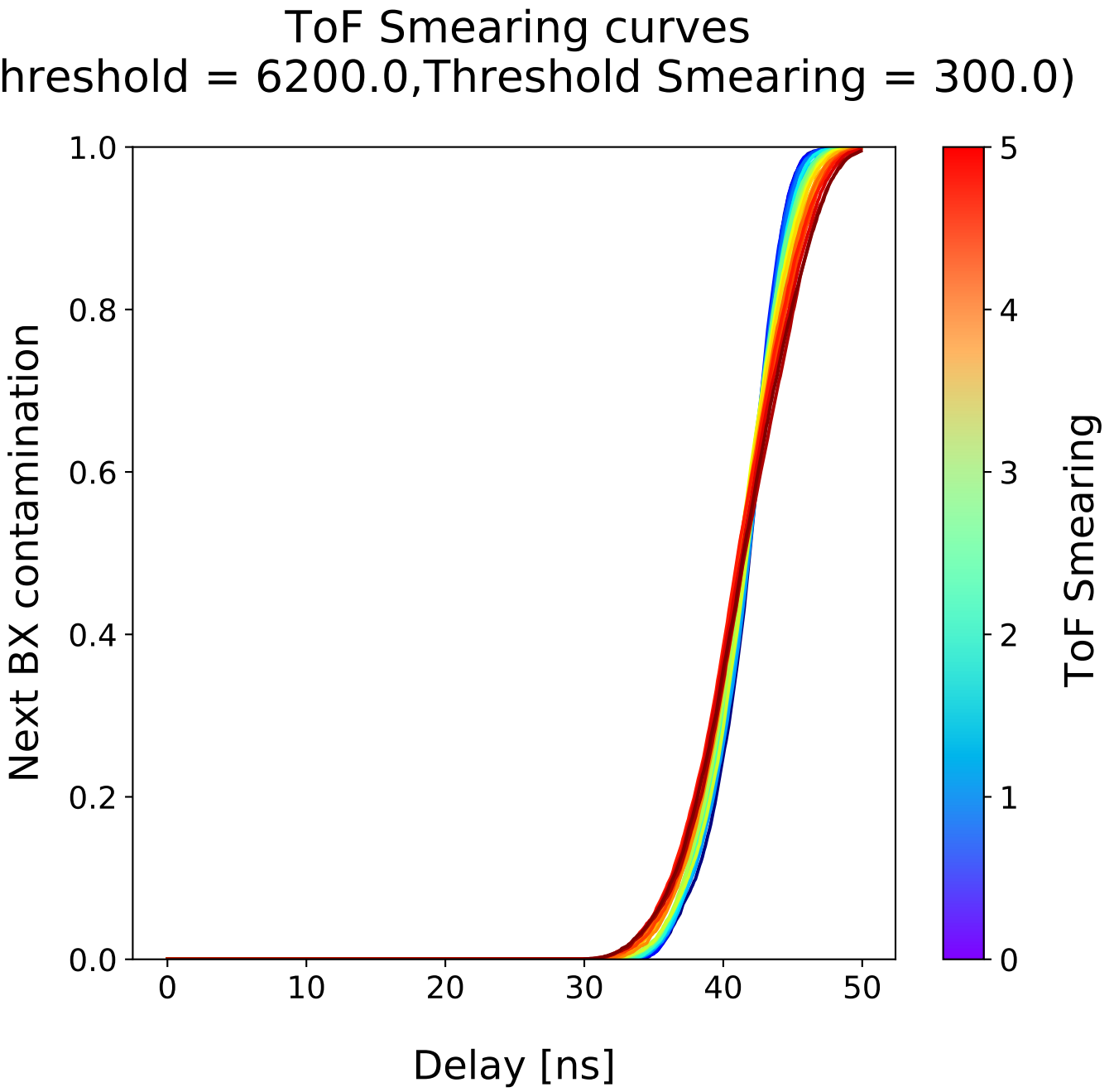

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

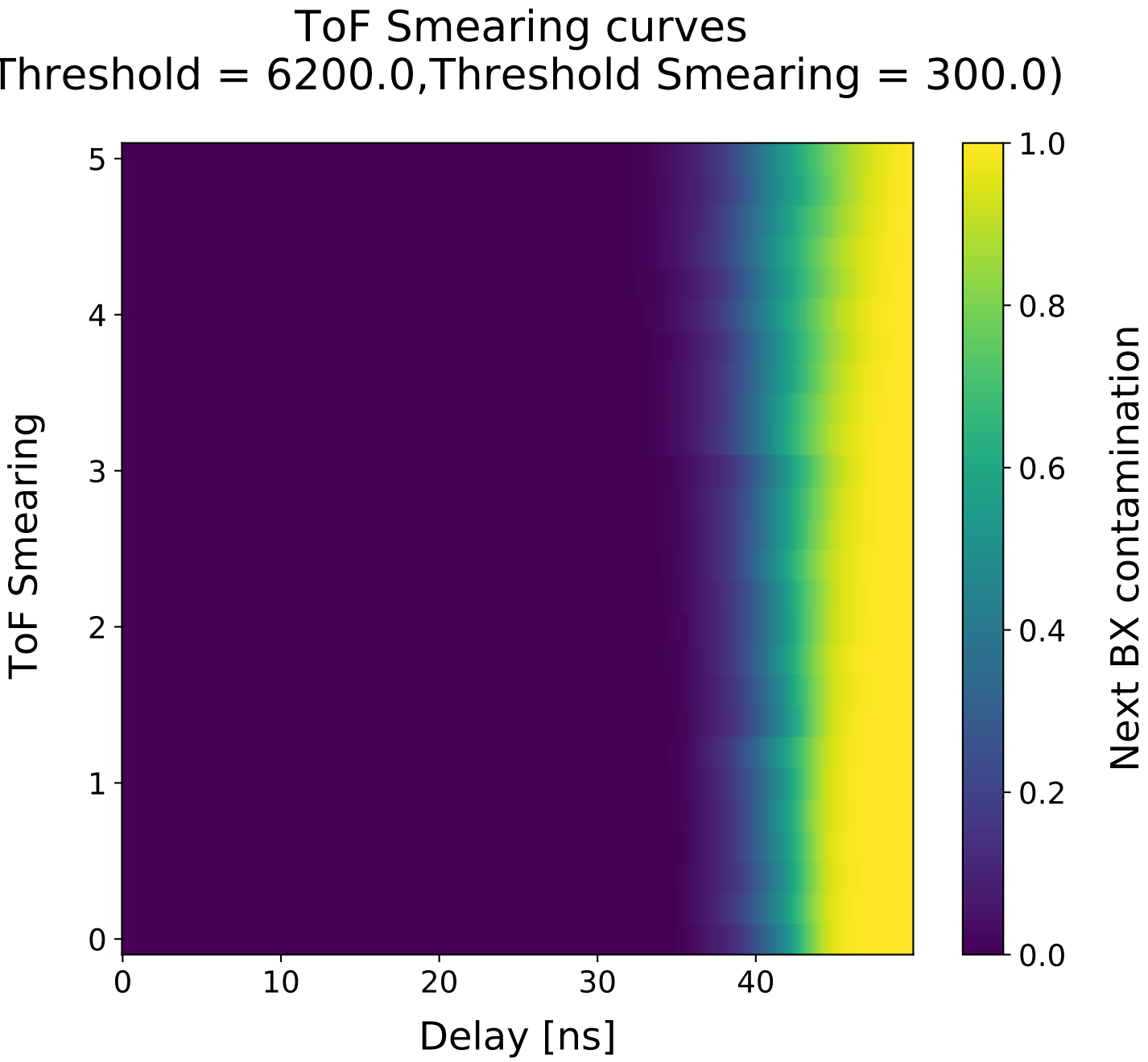

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

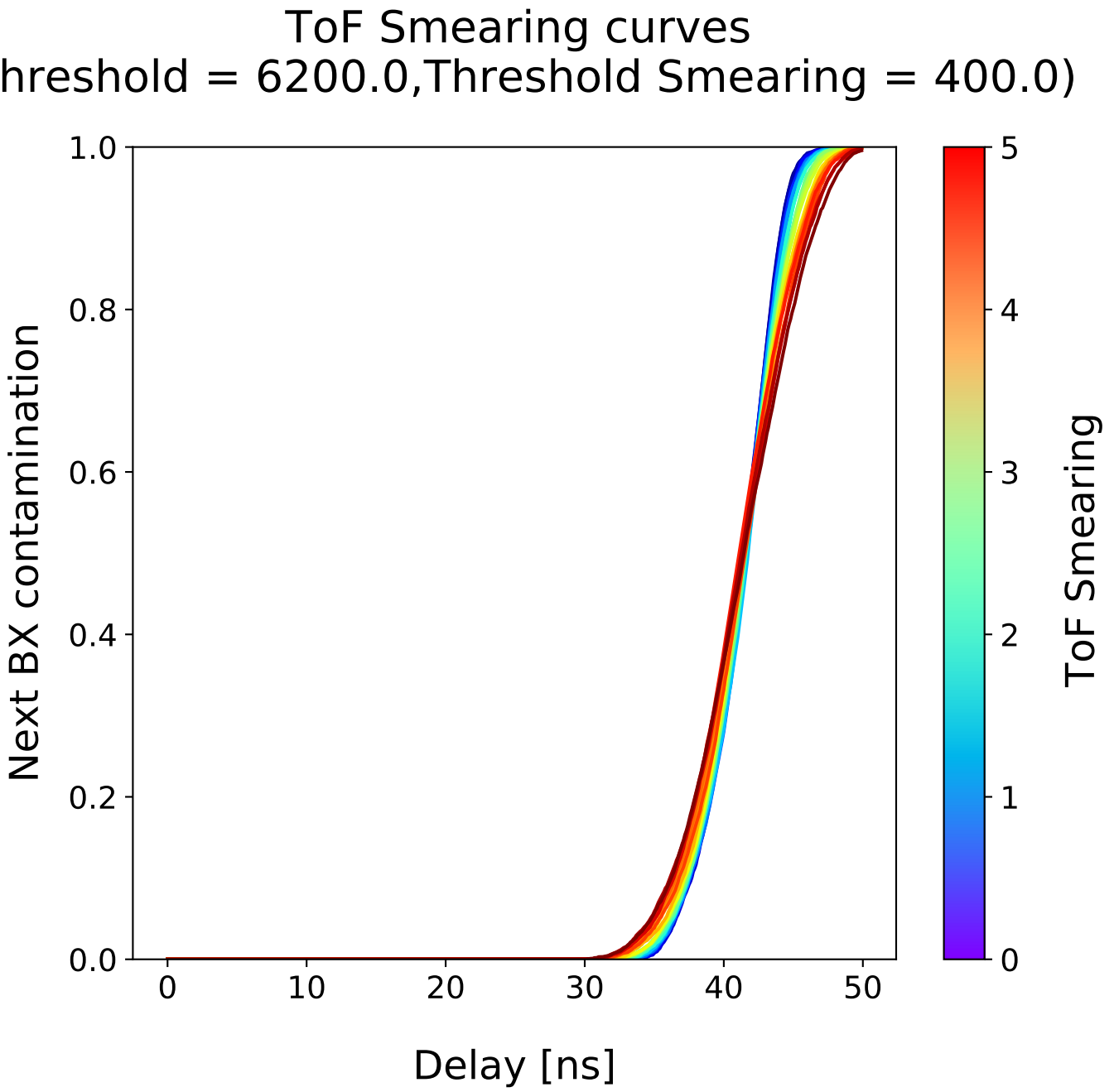

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

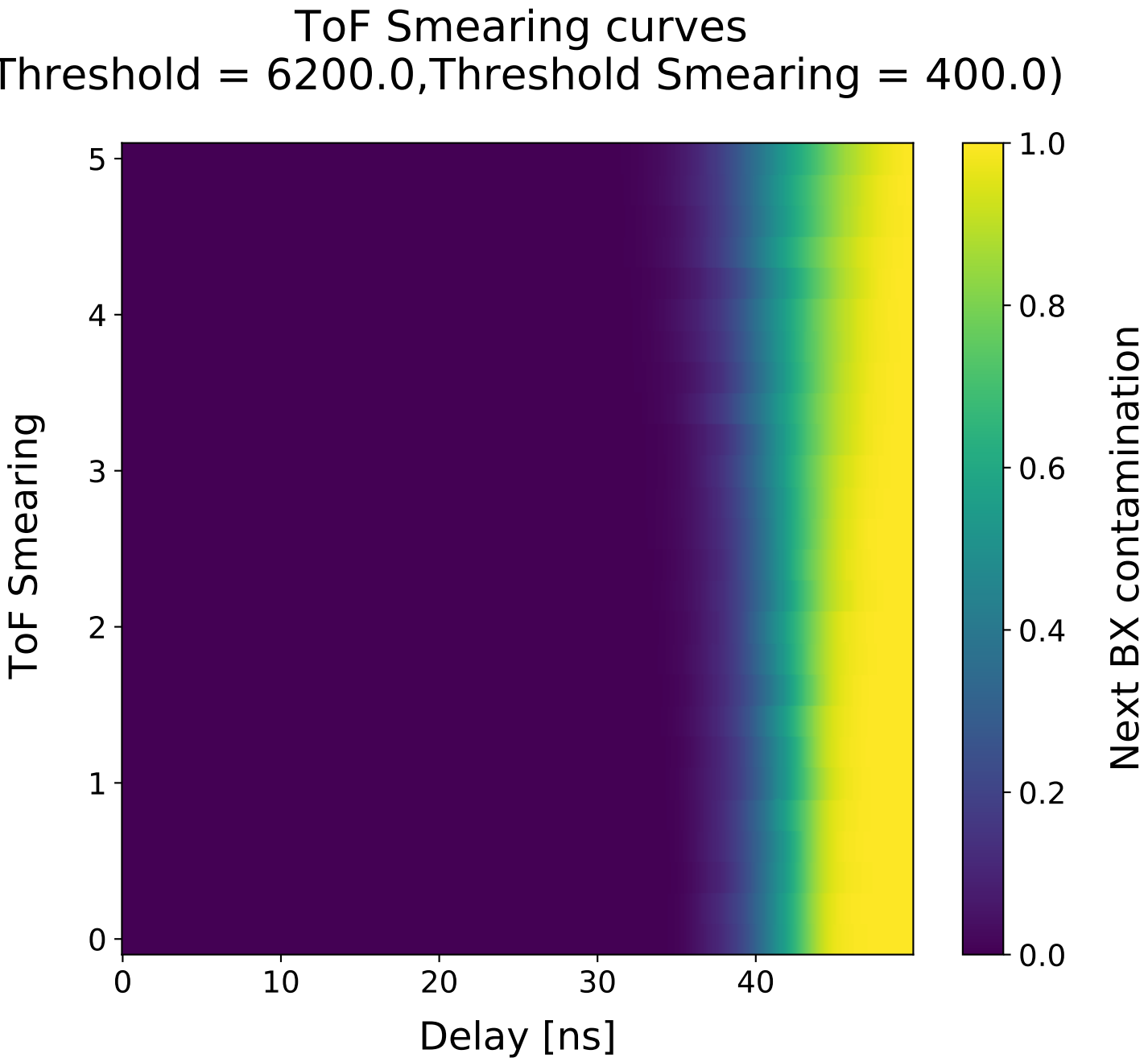

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

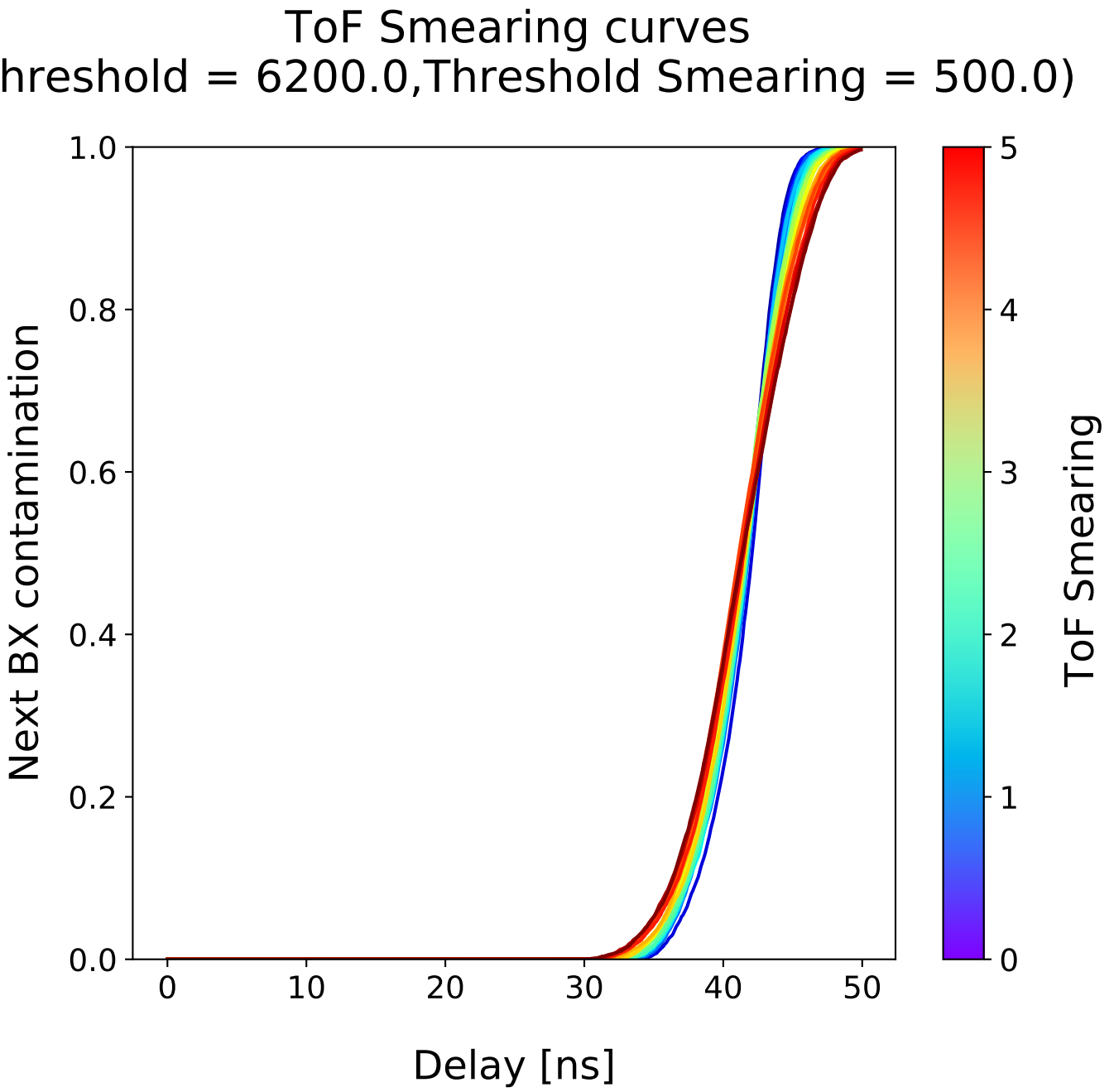

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

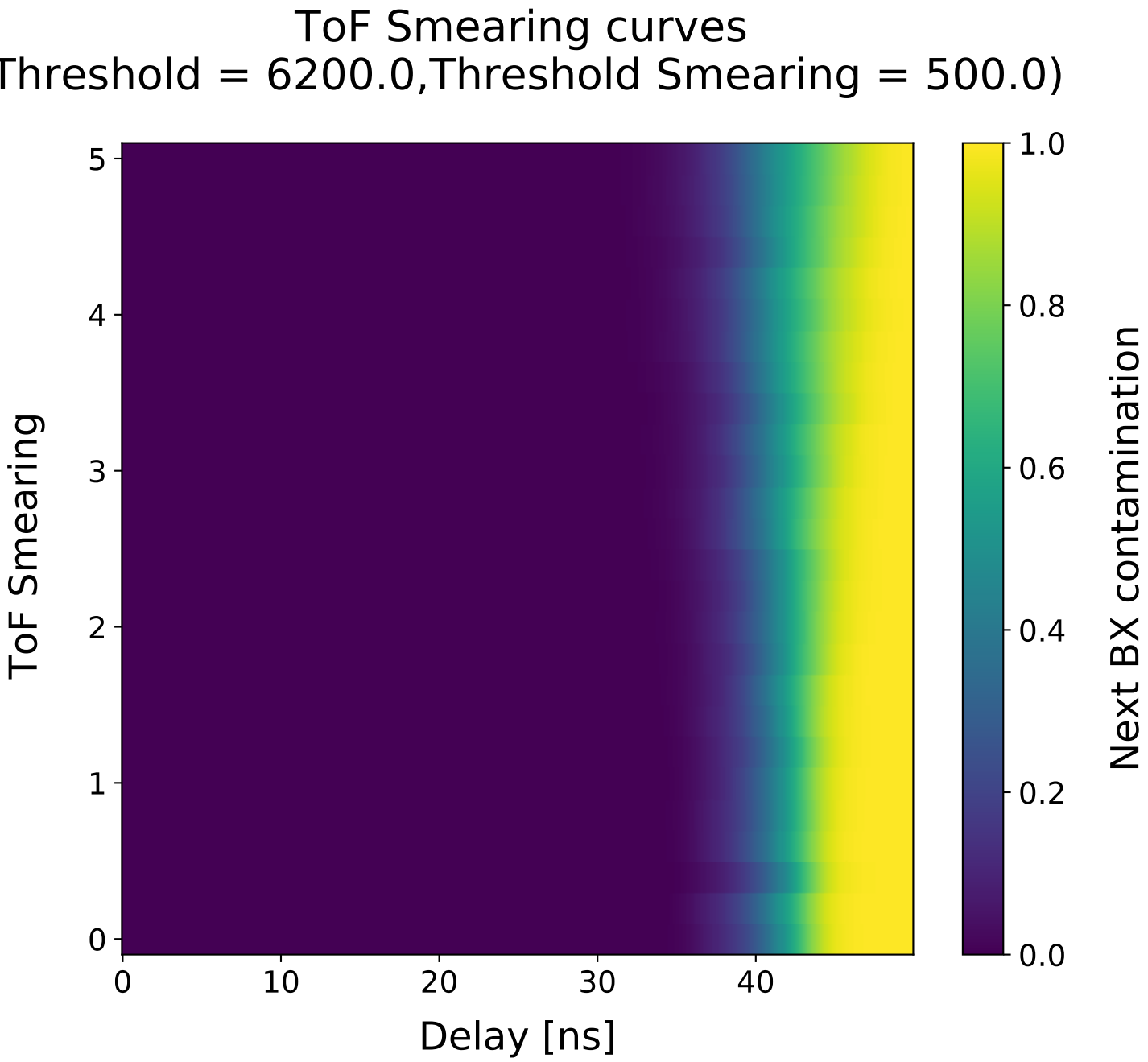

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

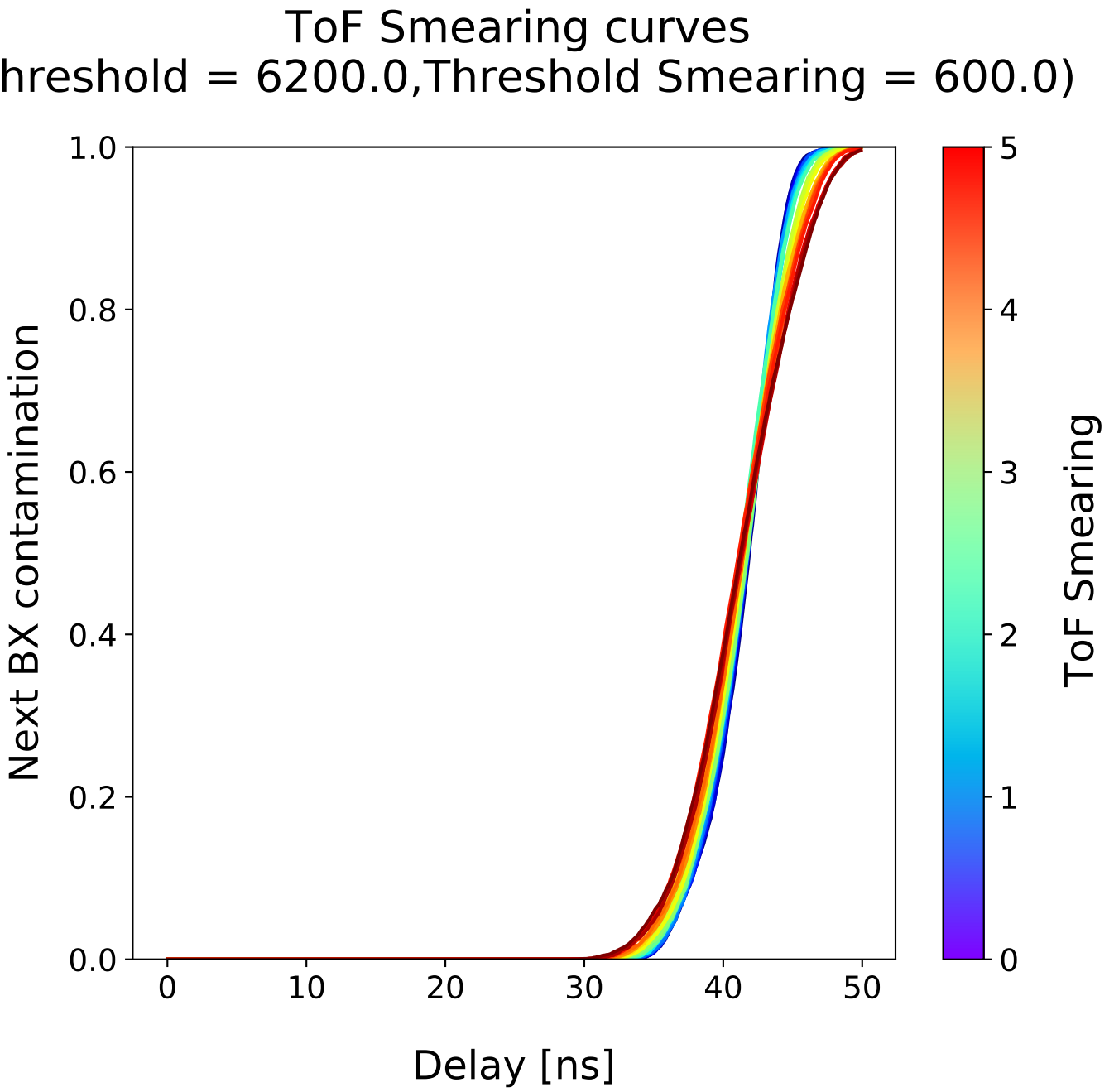

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

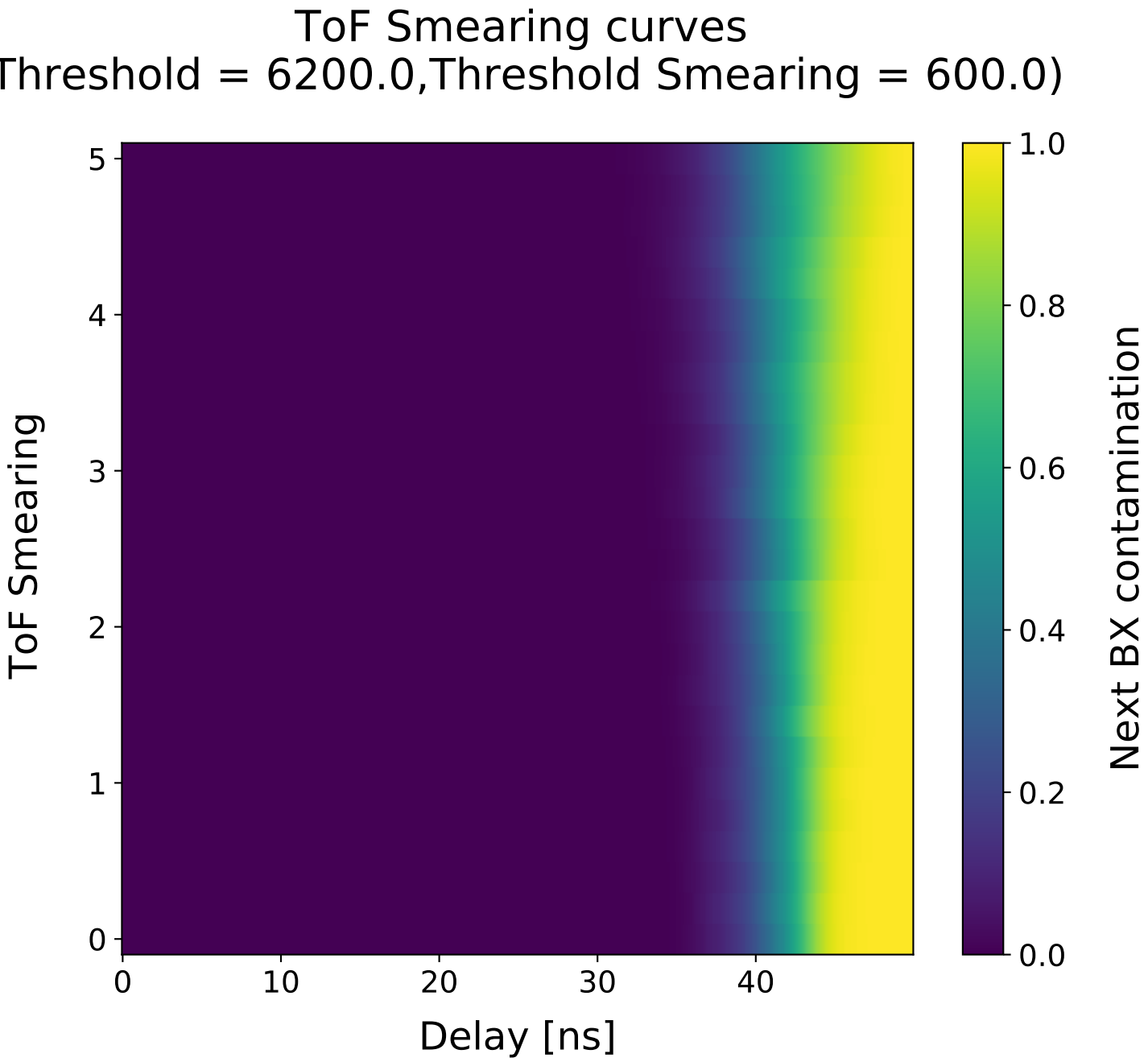

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

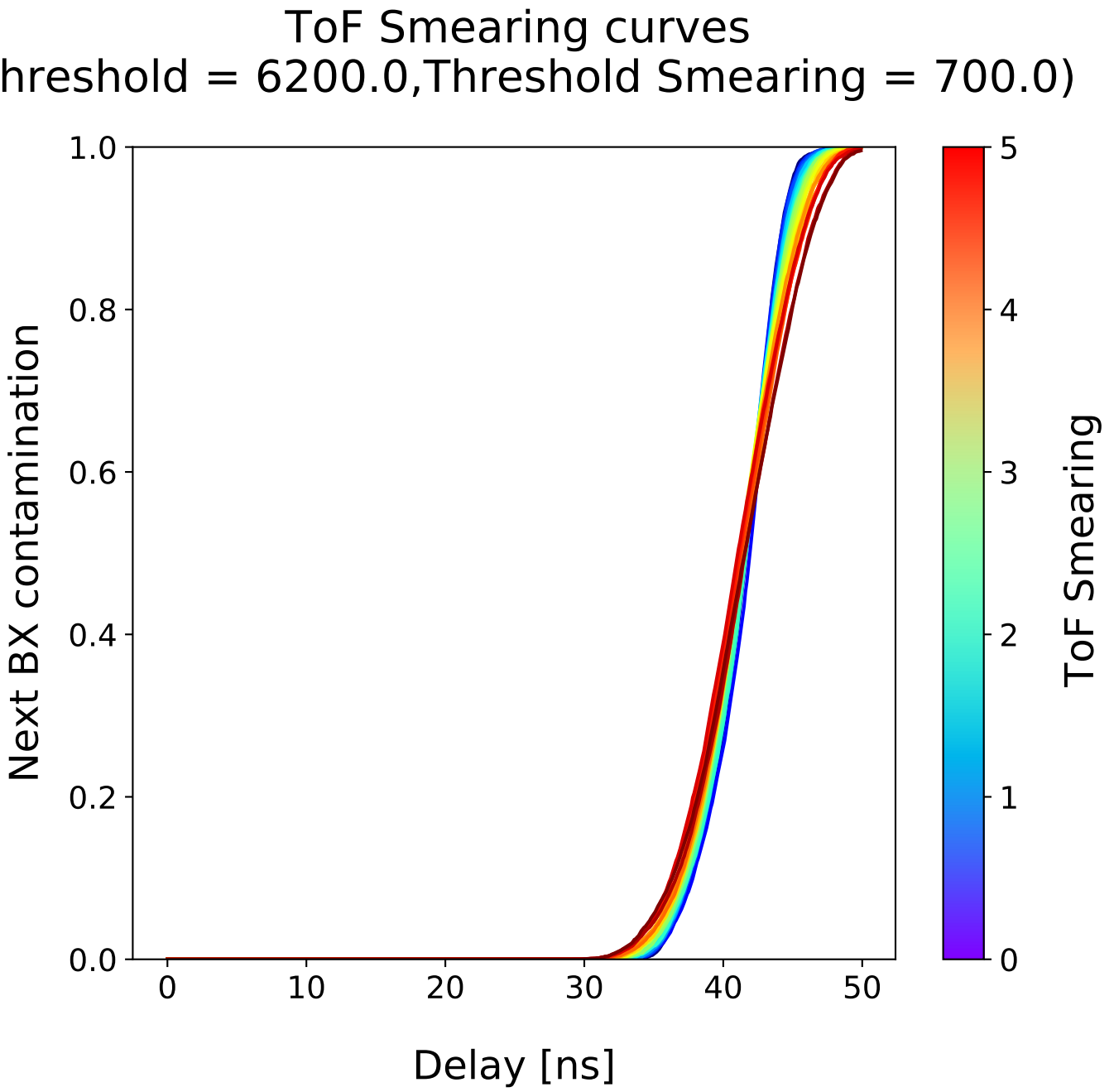

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

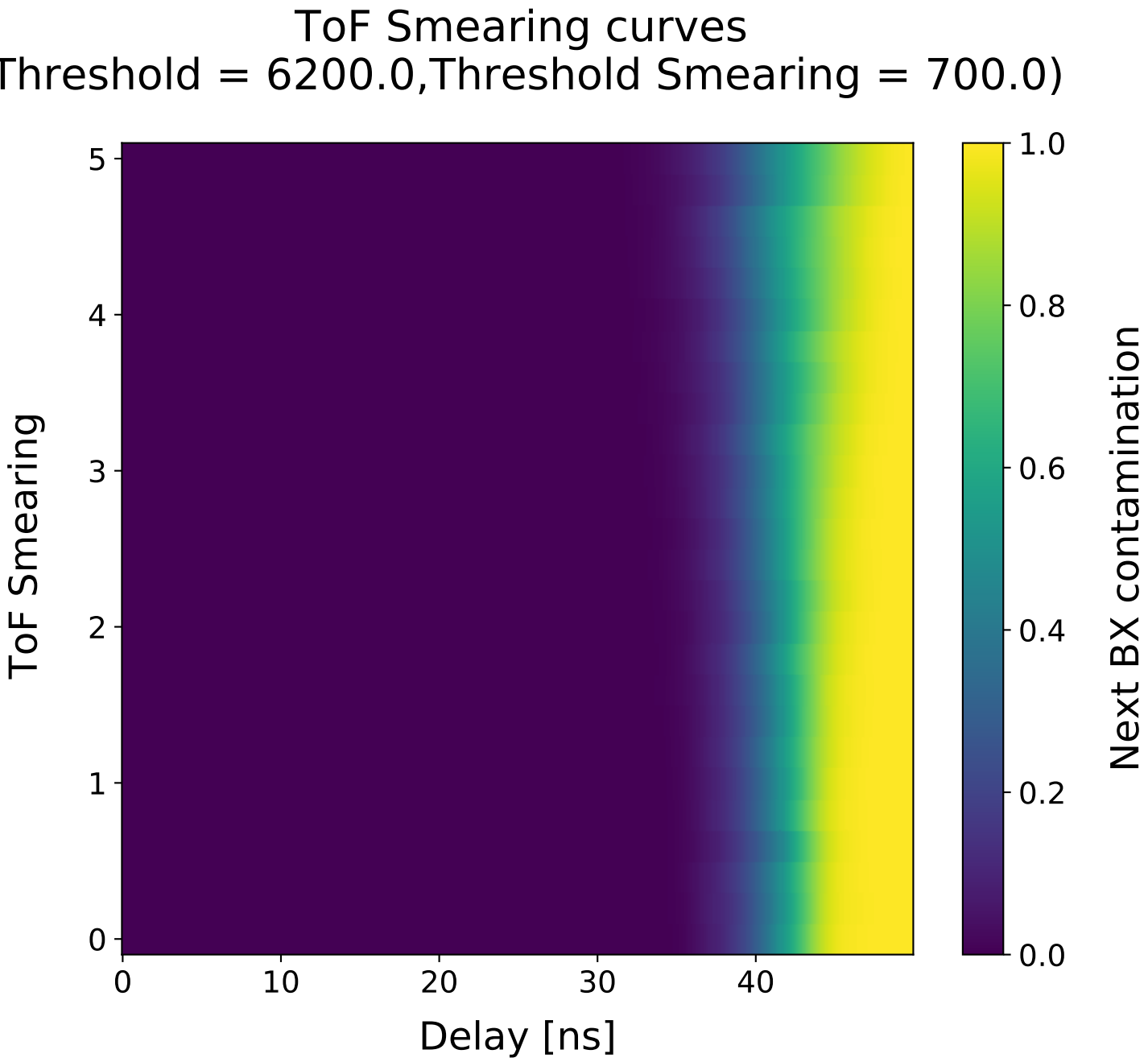

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

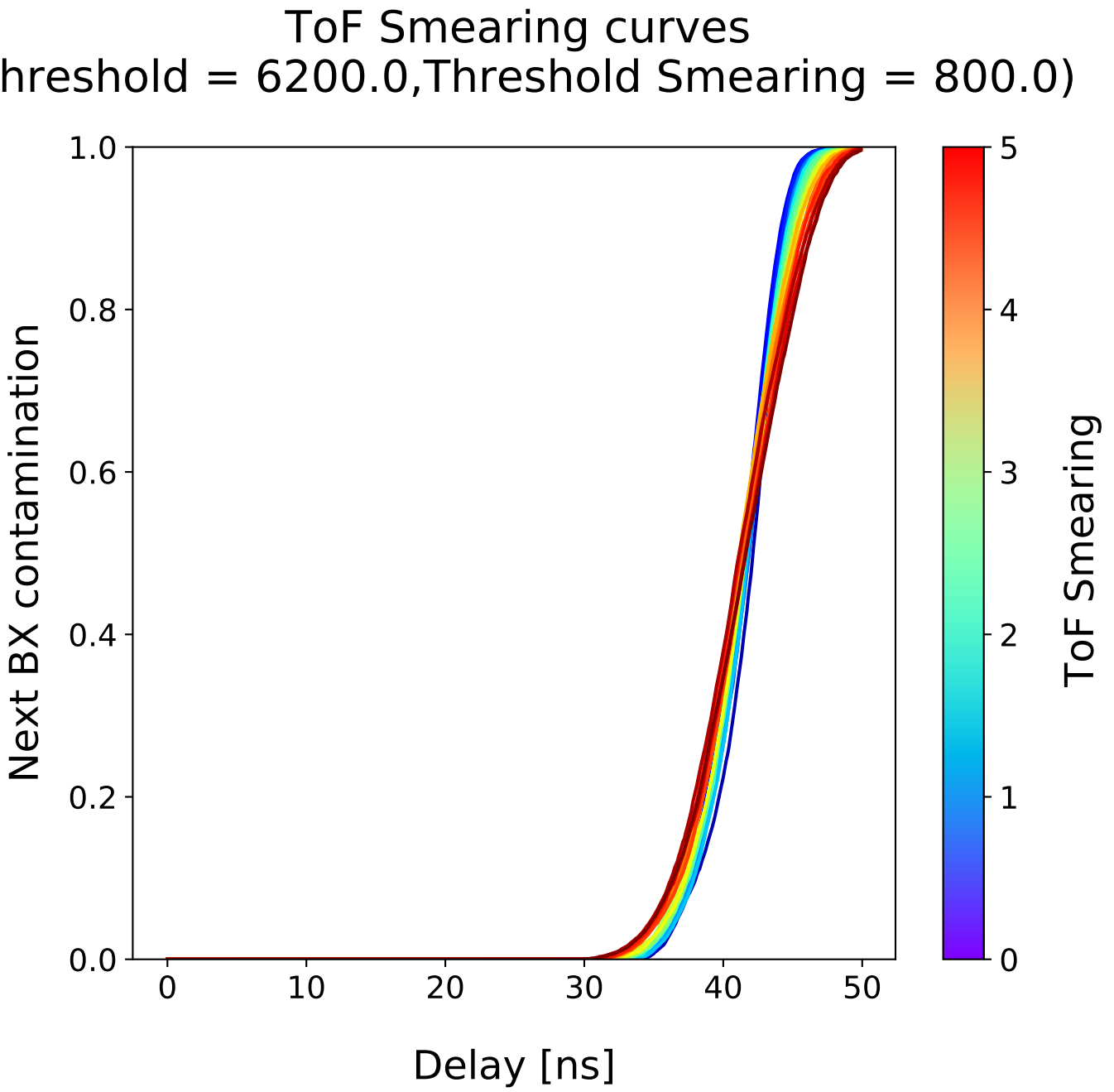

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

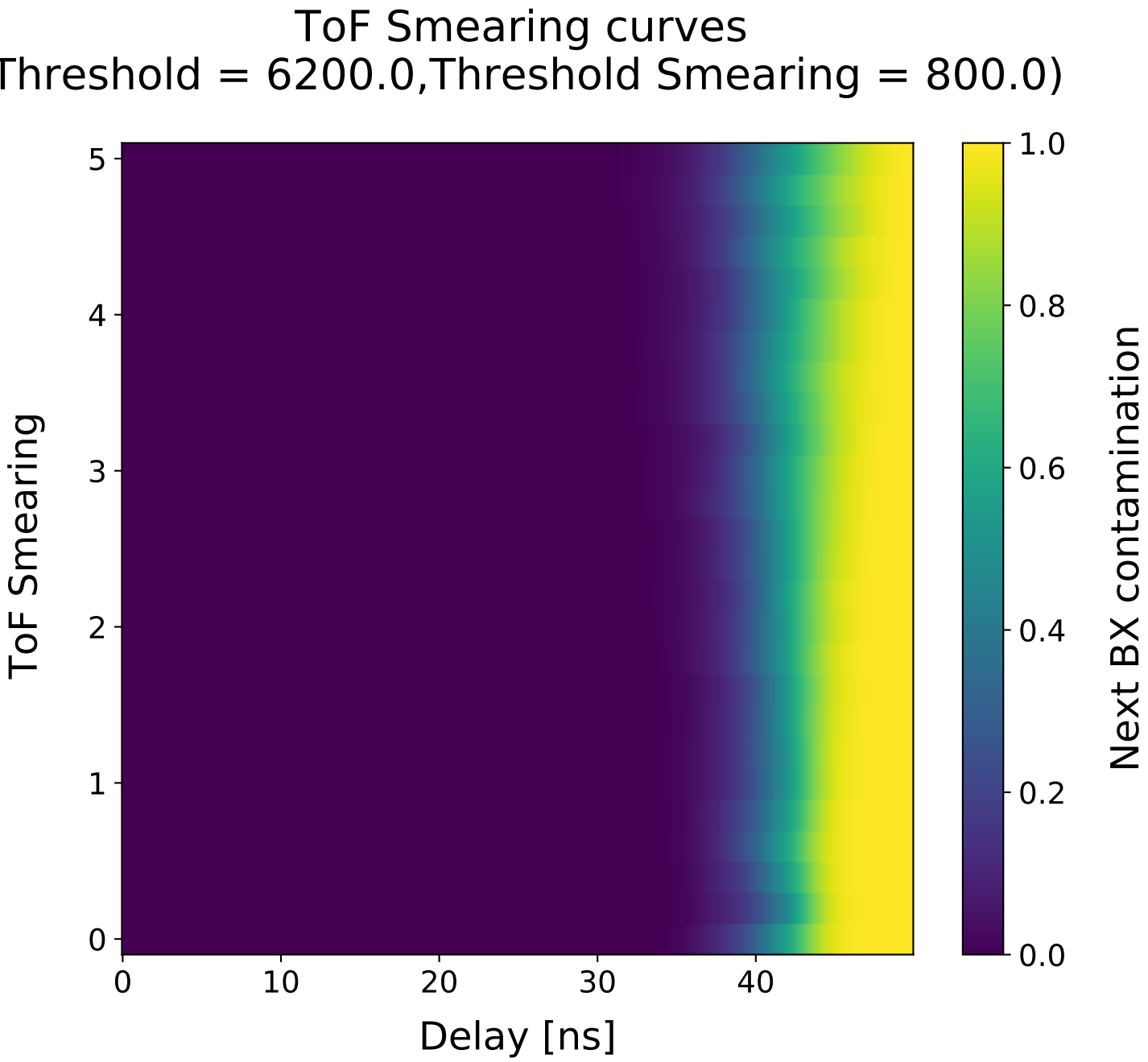

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

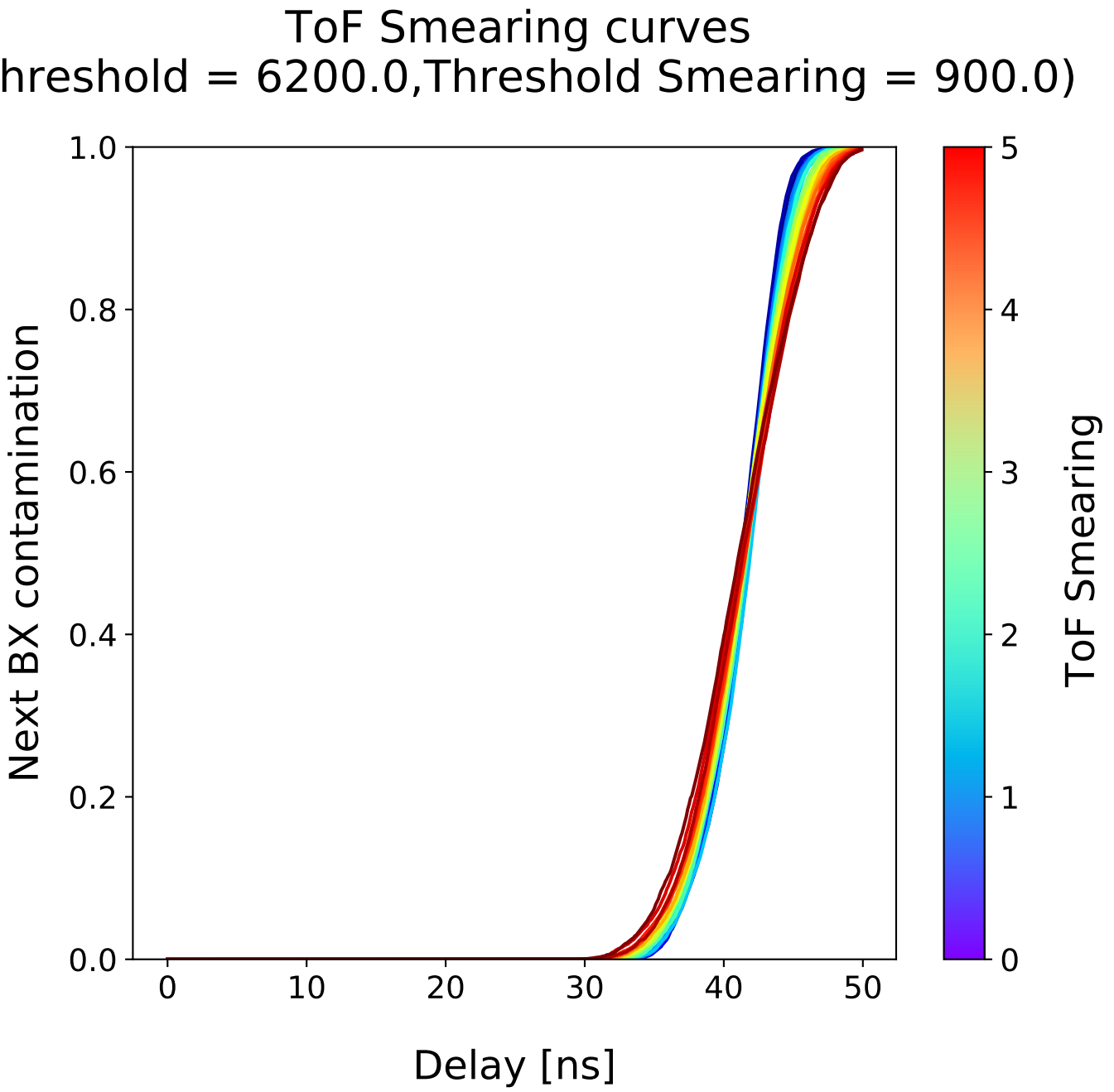

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

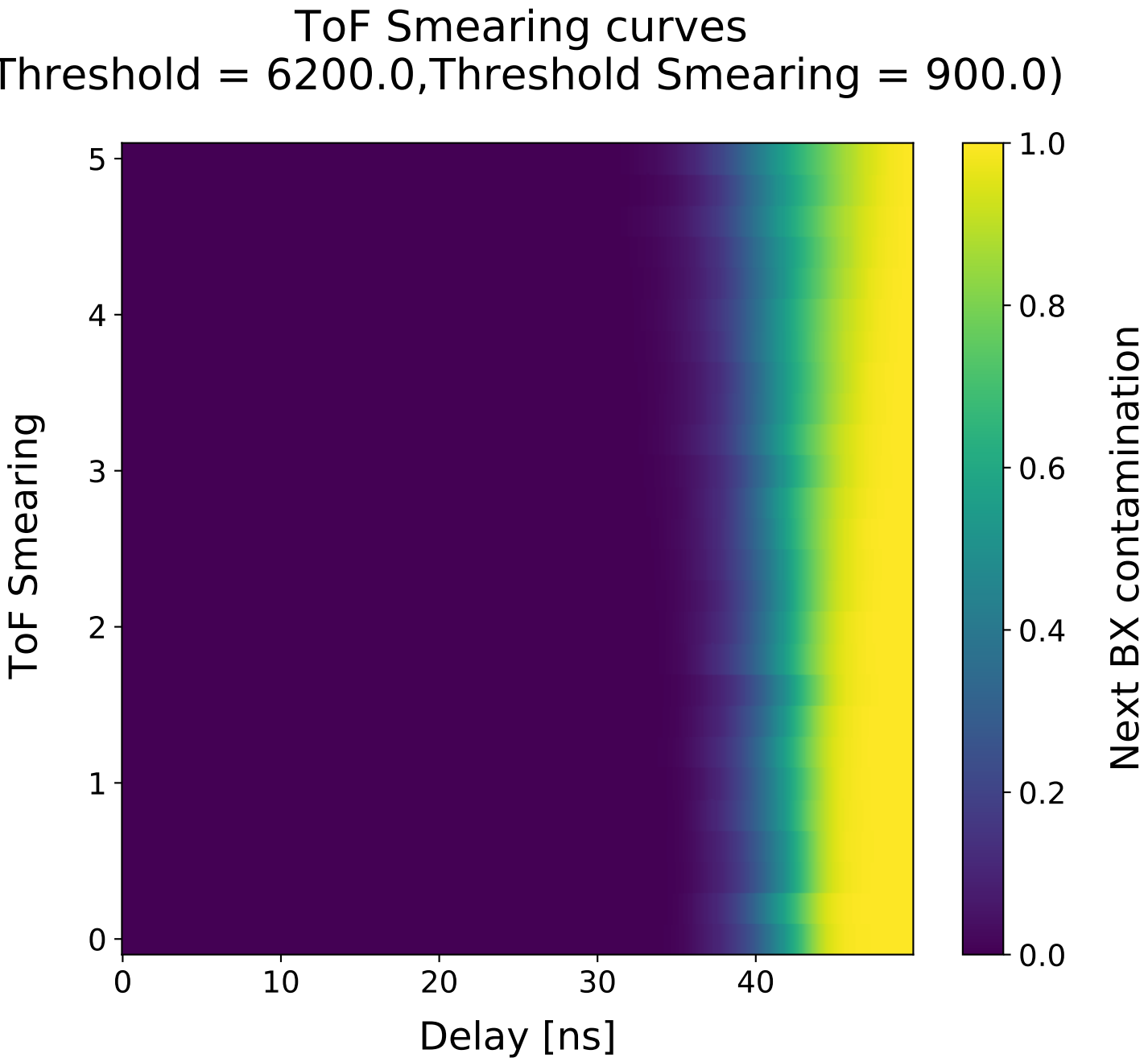

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

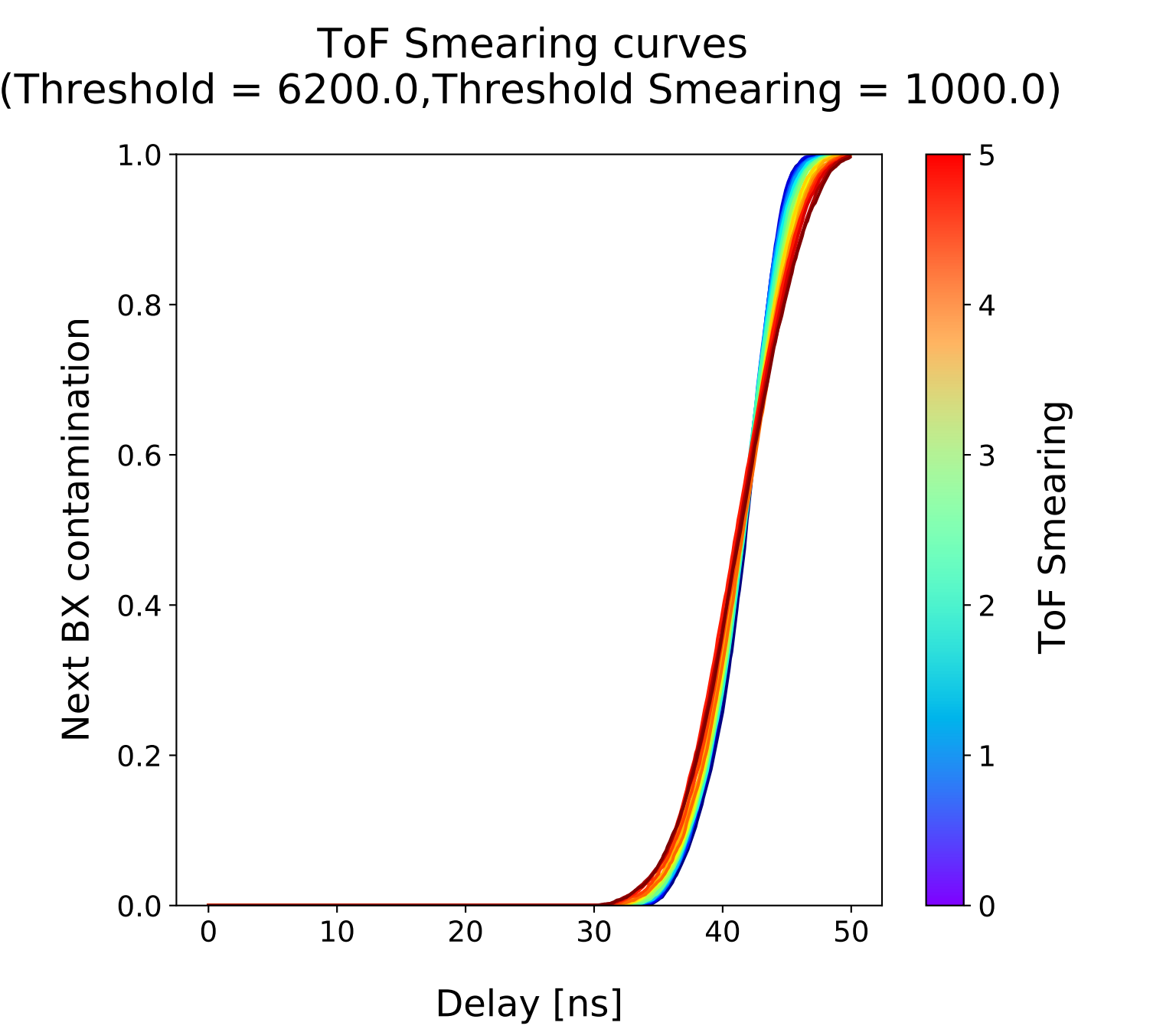

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

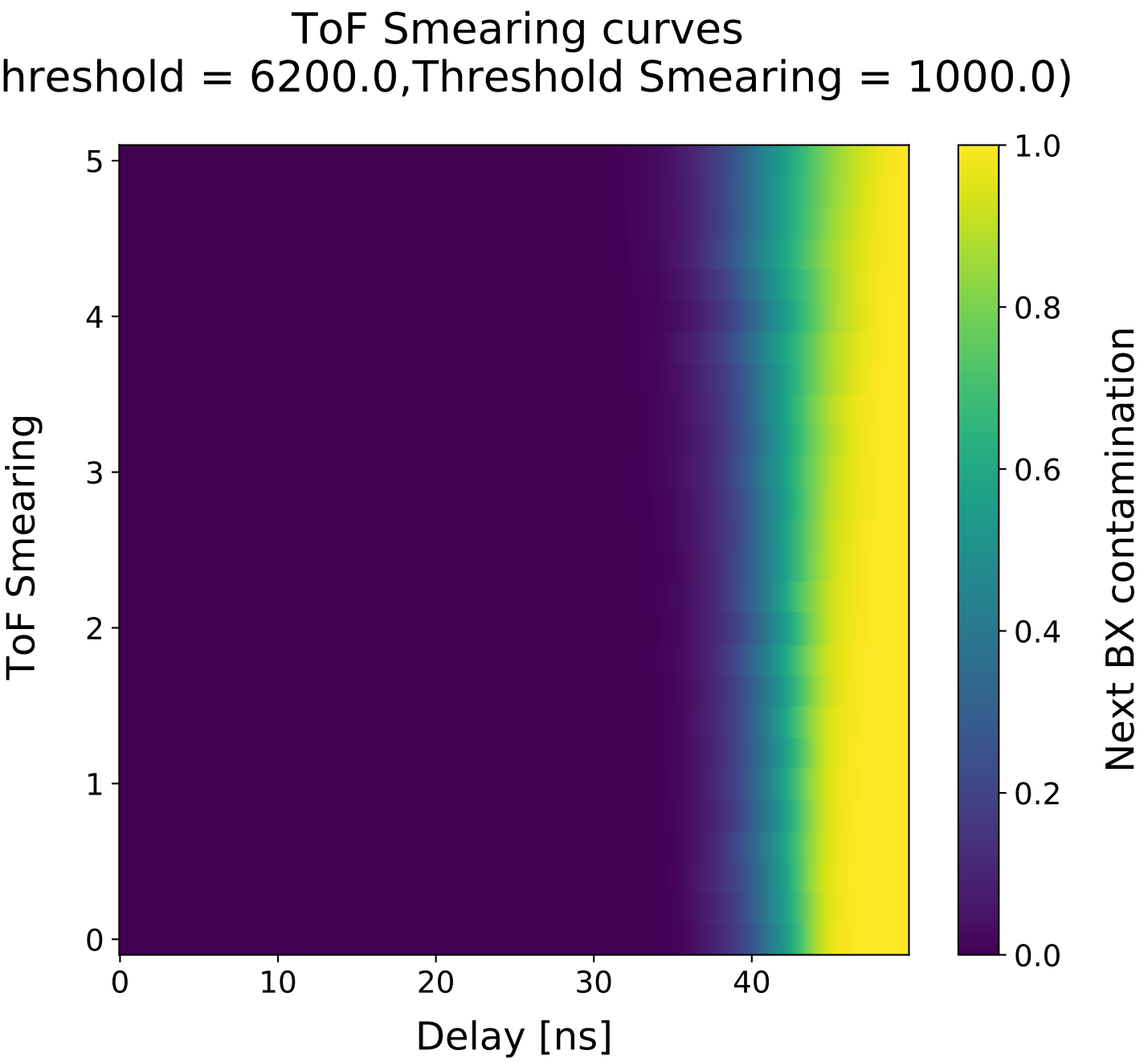

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

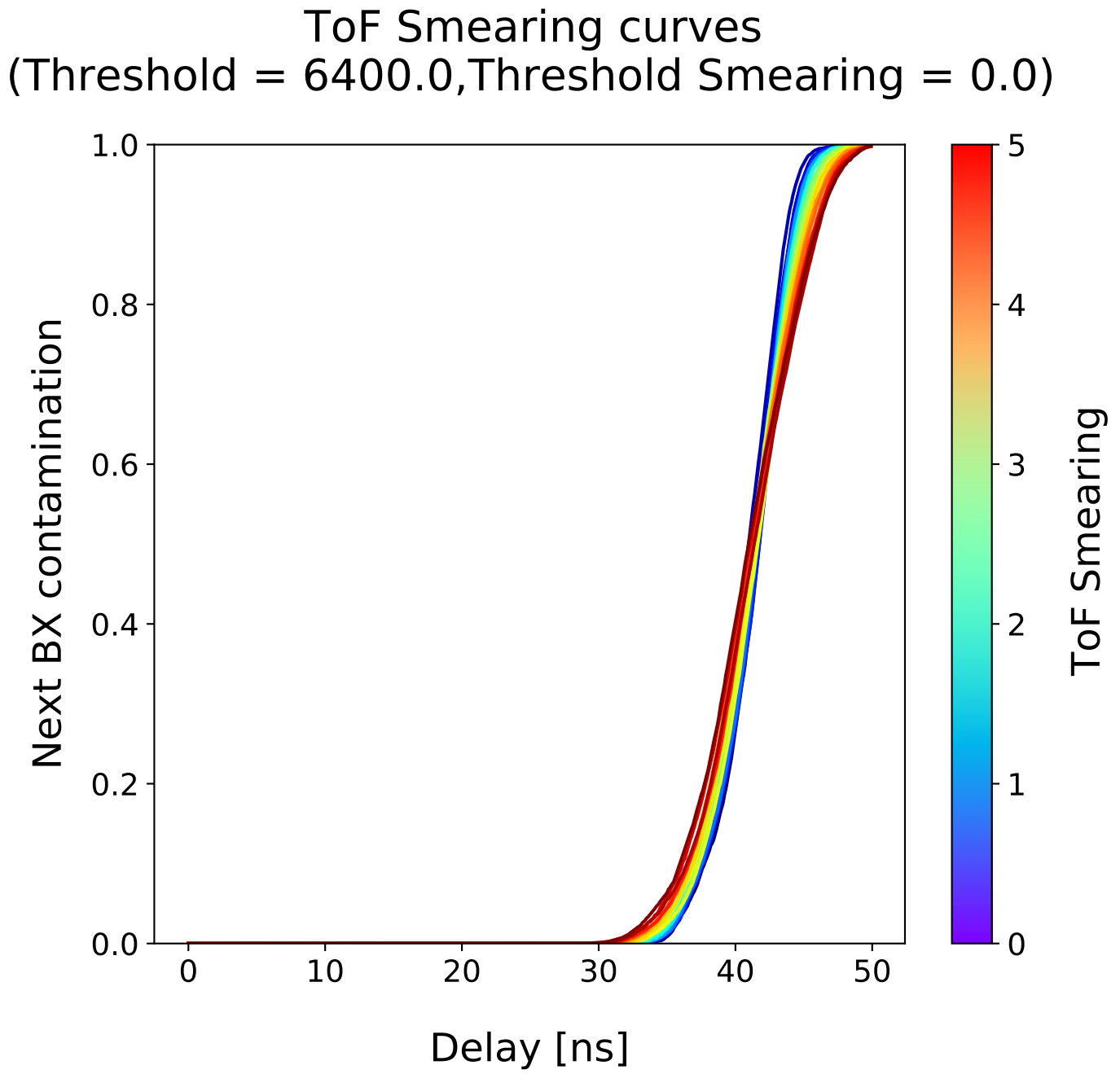

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

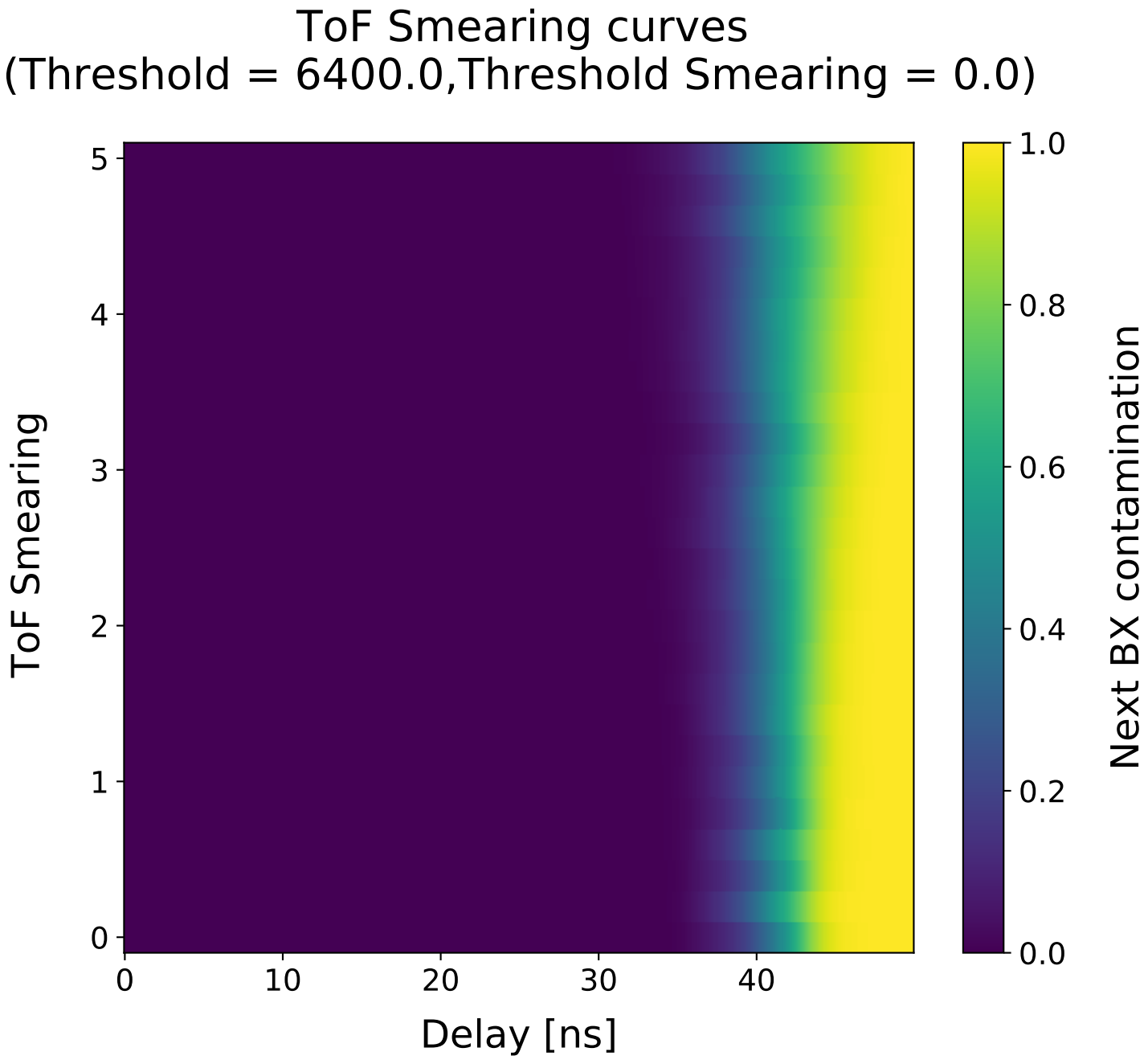

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

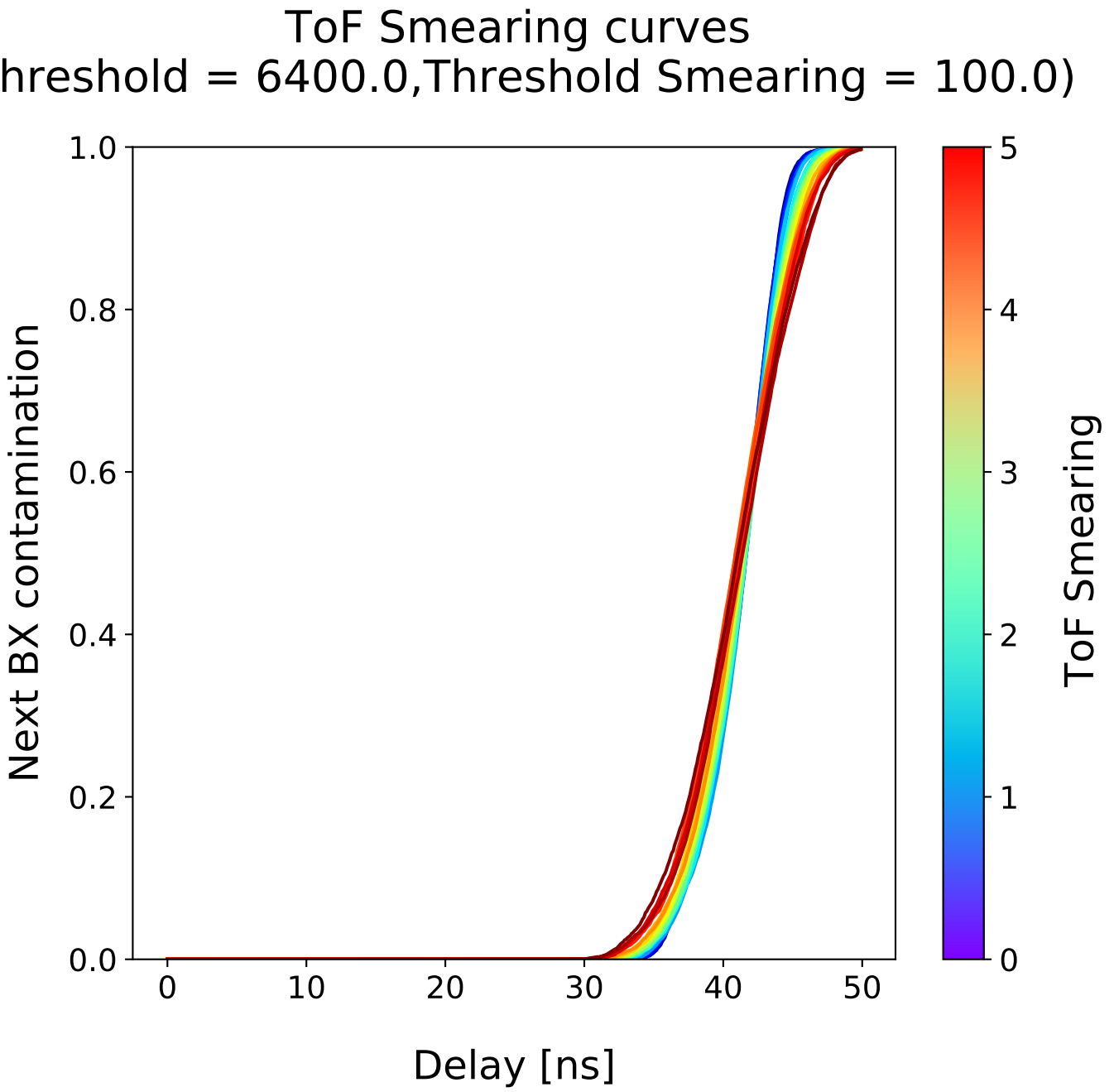

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

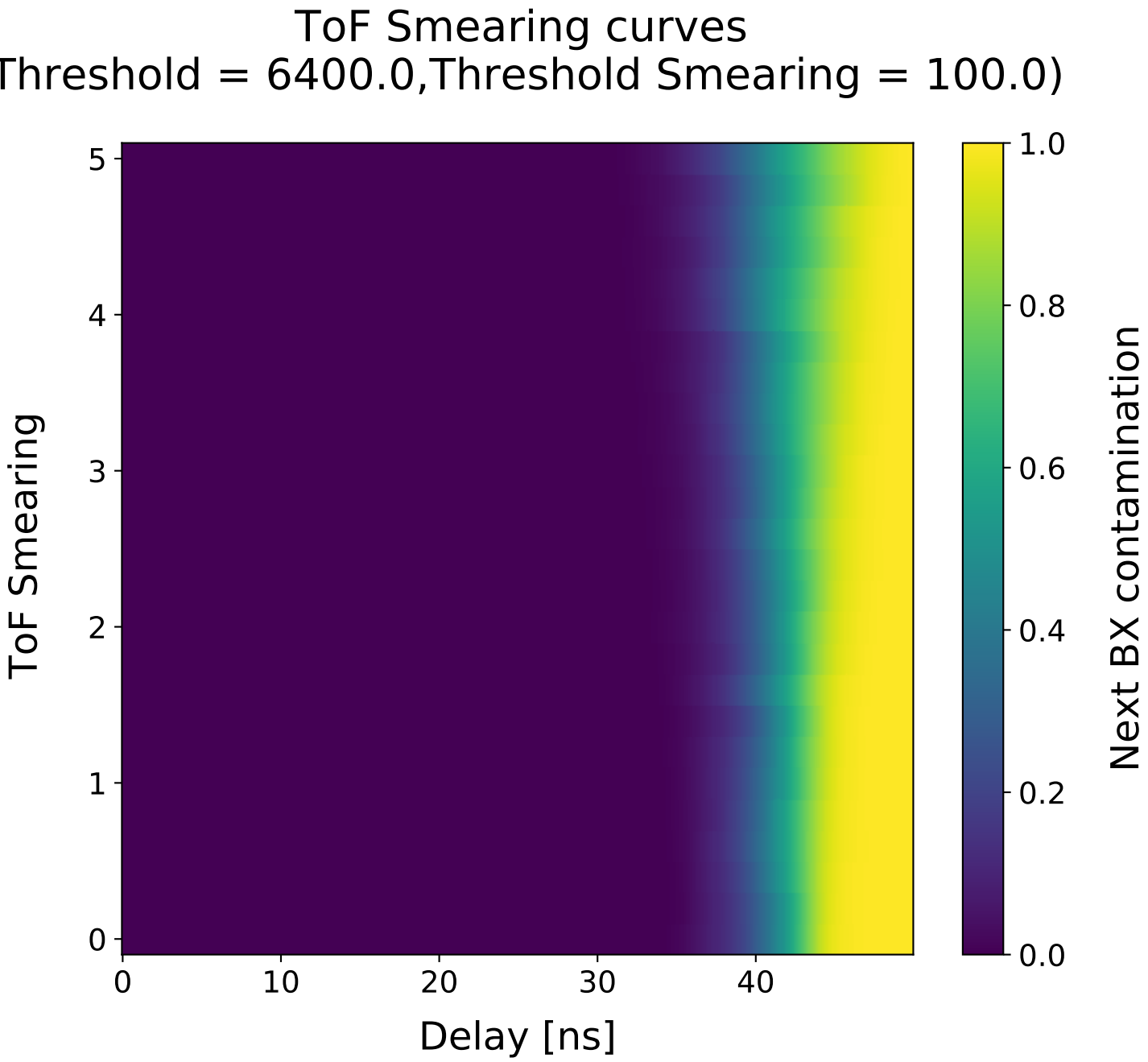

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

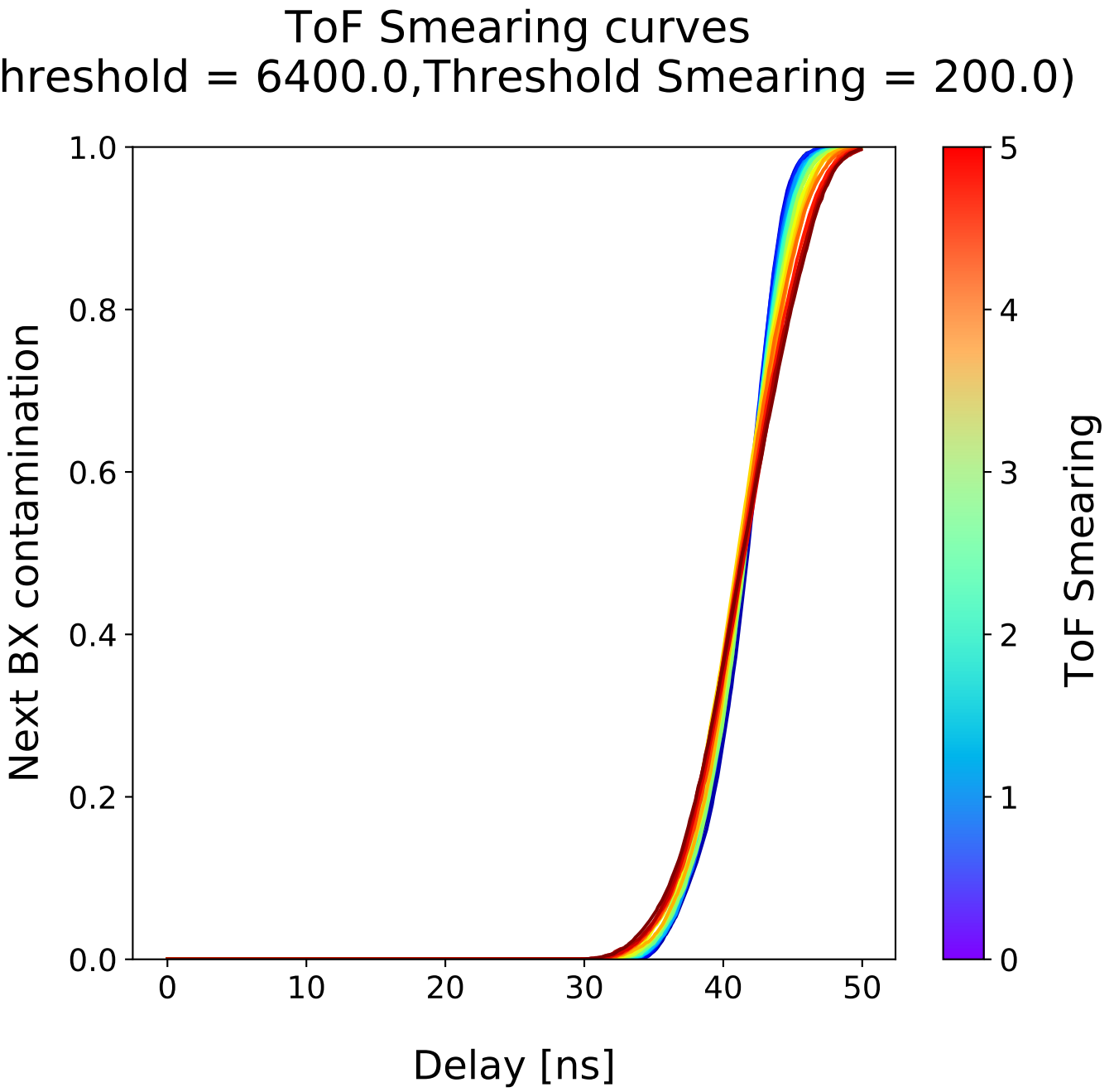

ToF Smearing curves
(Threshold = 6200.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

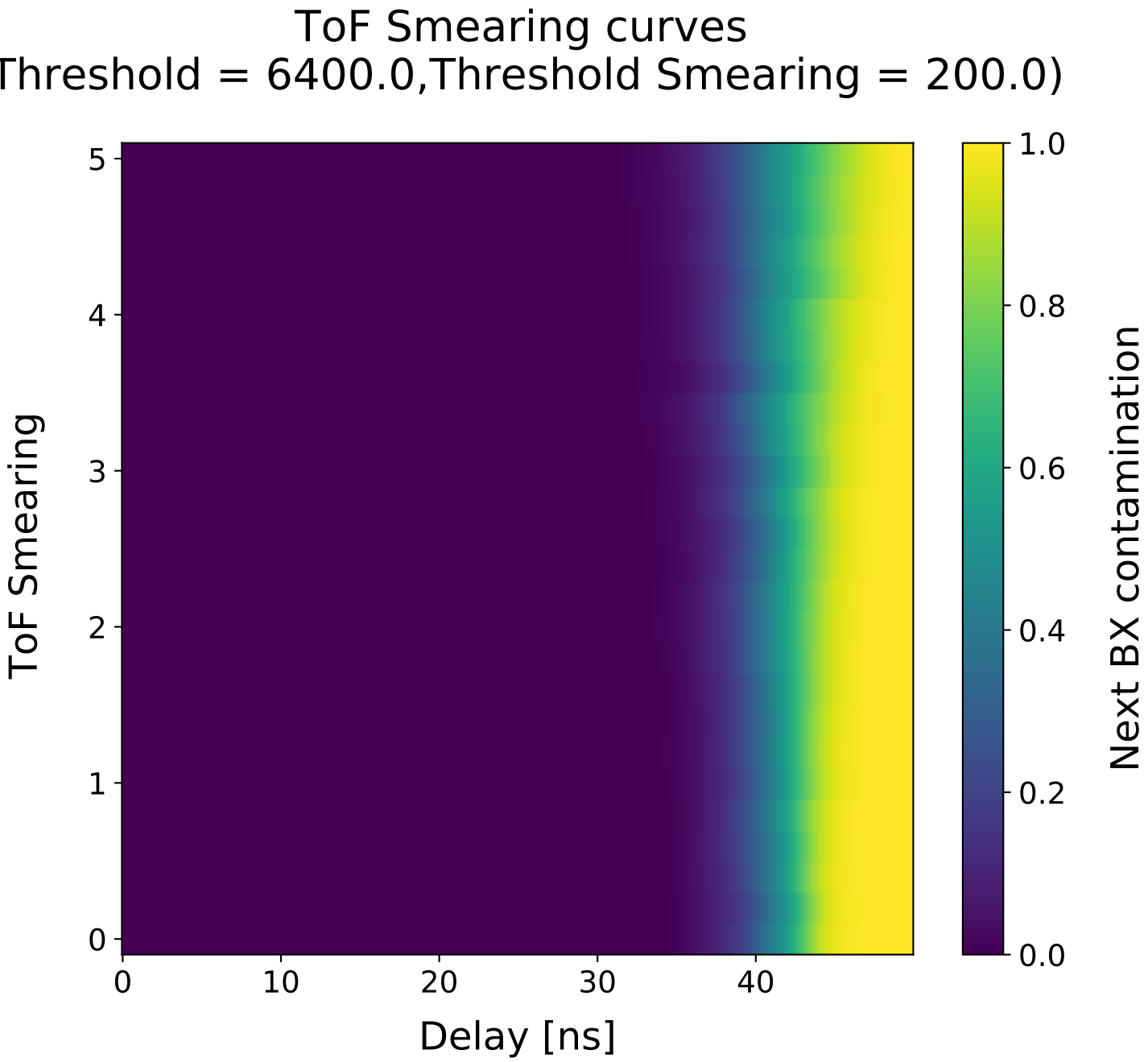

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
5
4
3
2
1
0

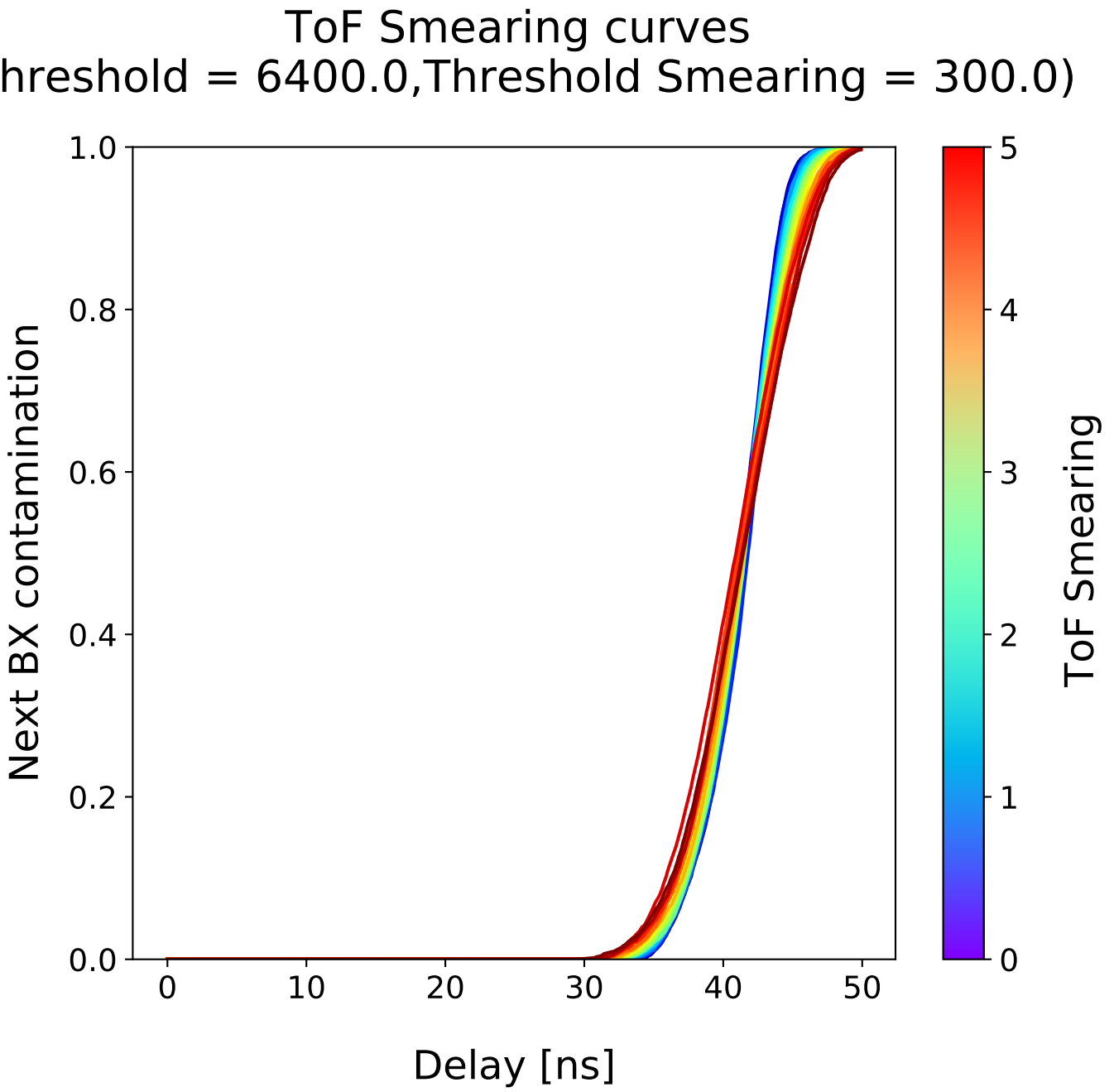

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

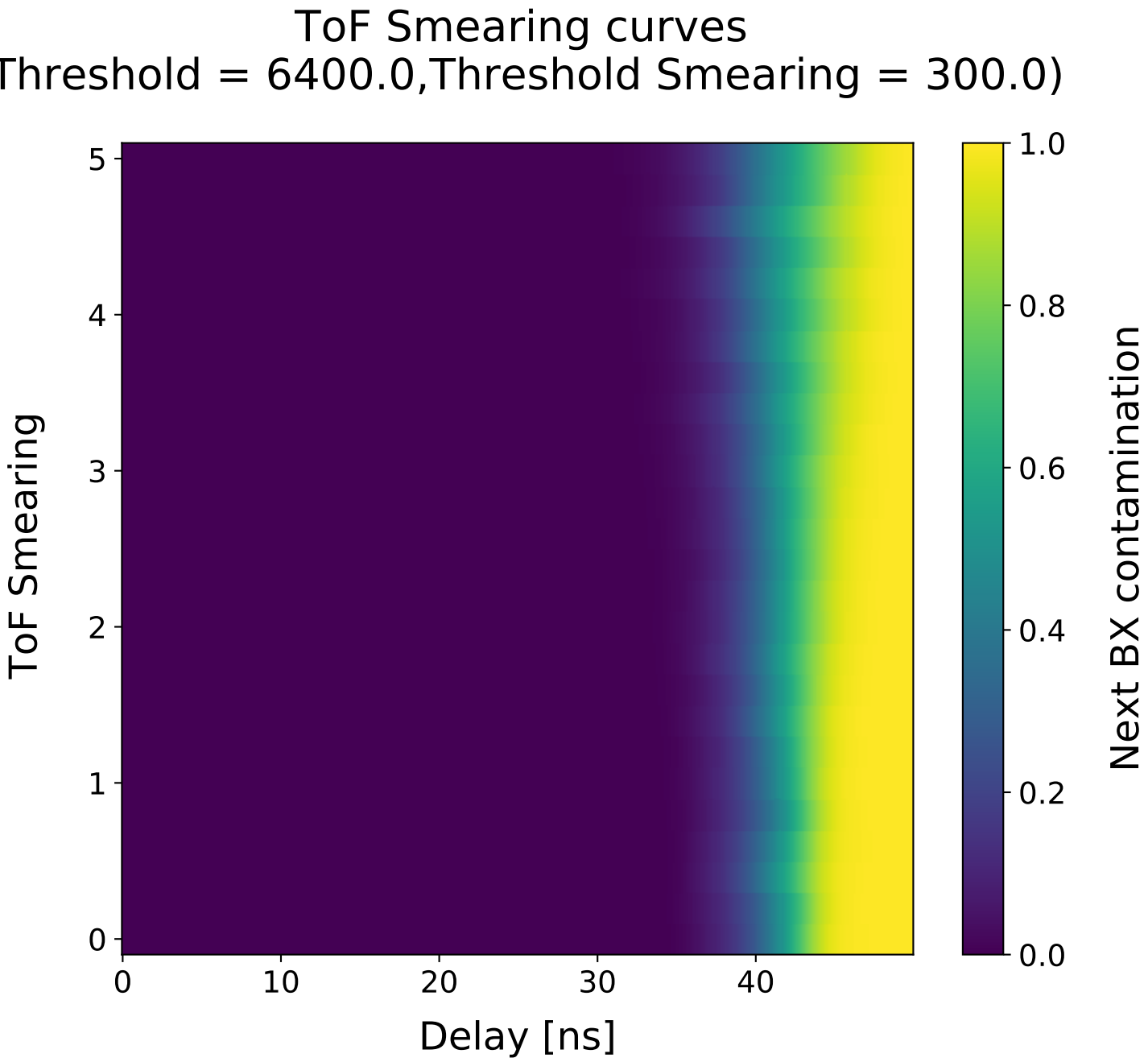

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

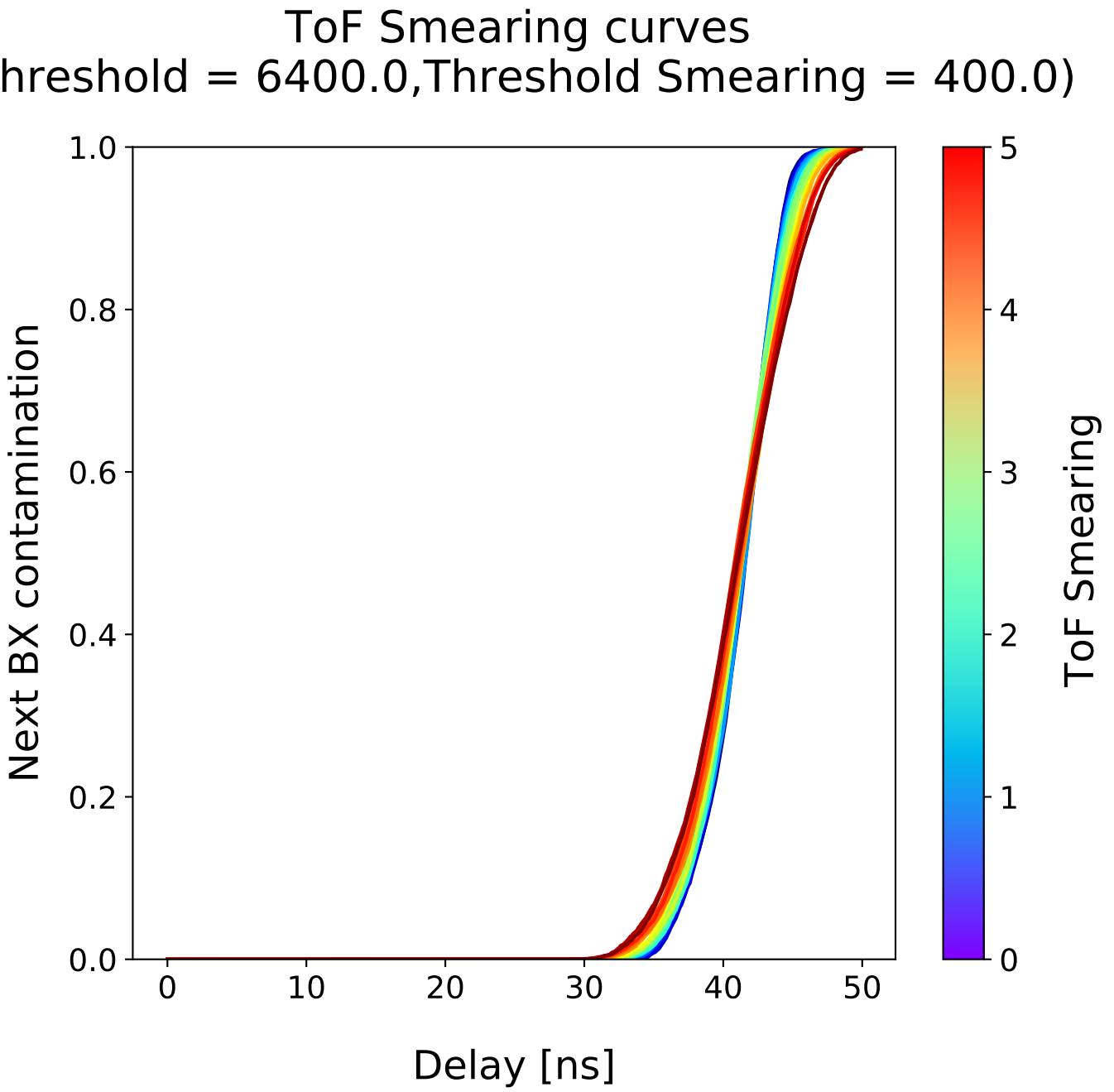

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

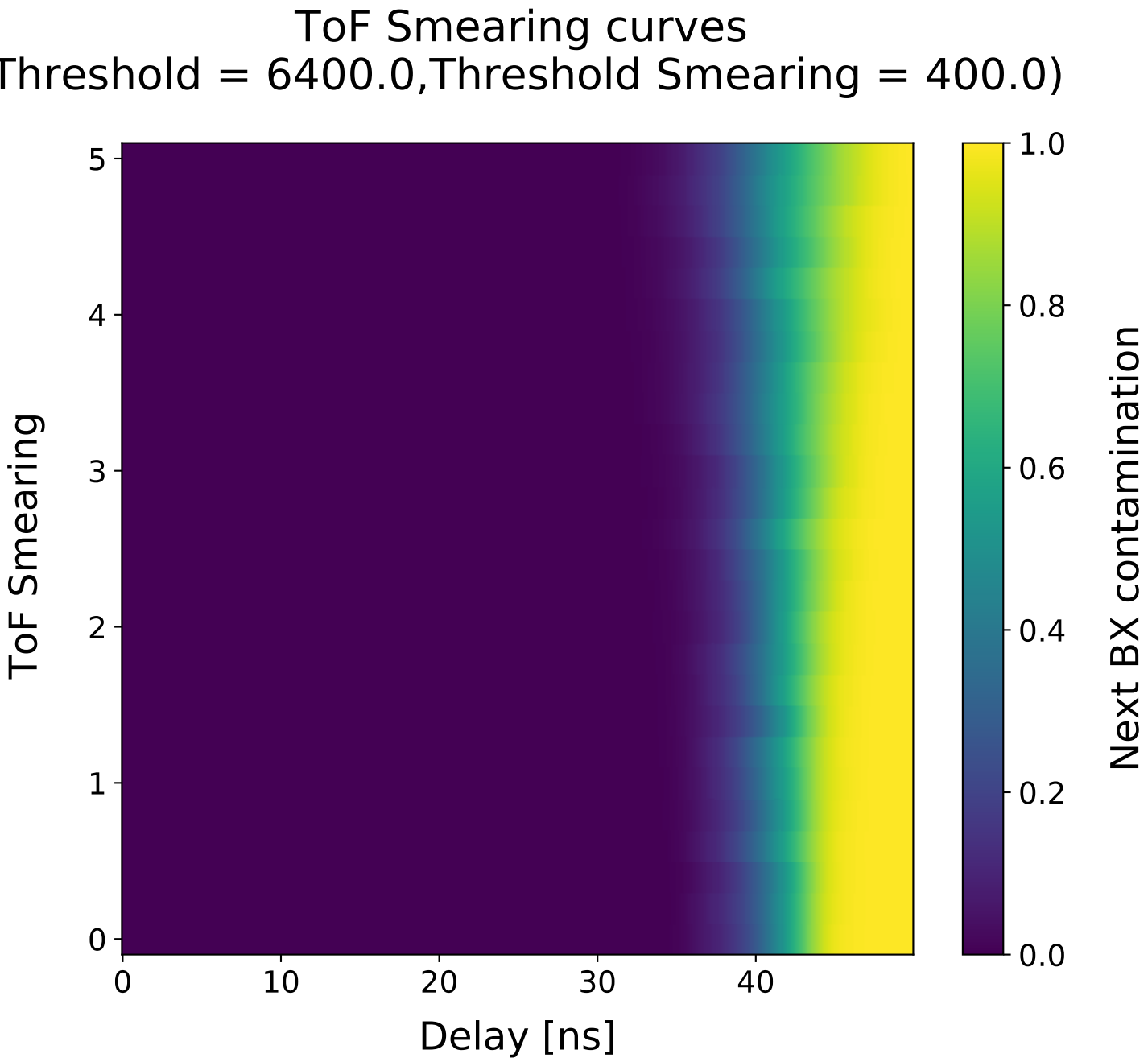

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

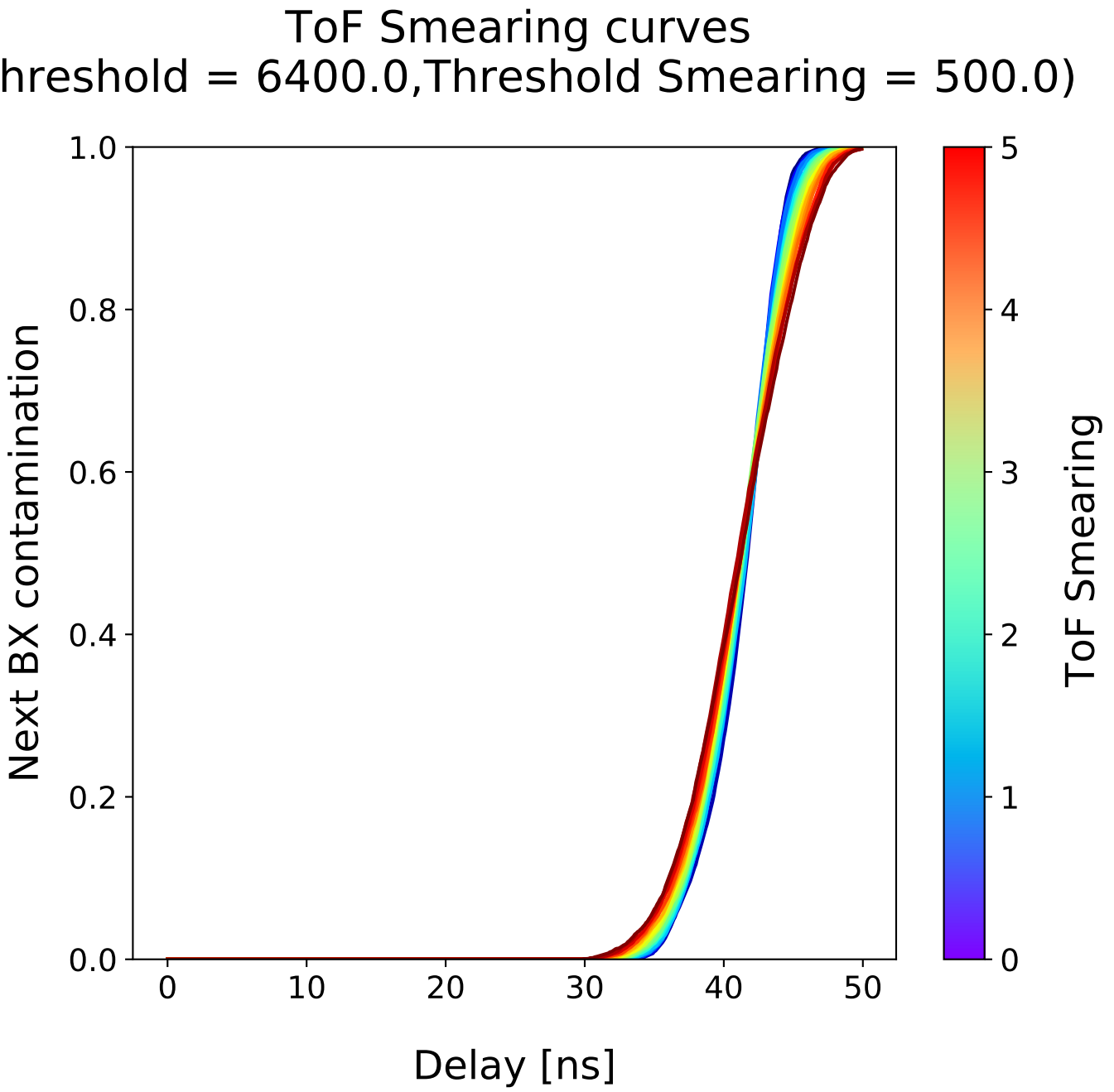

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

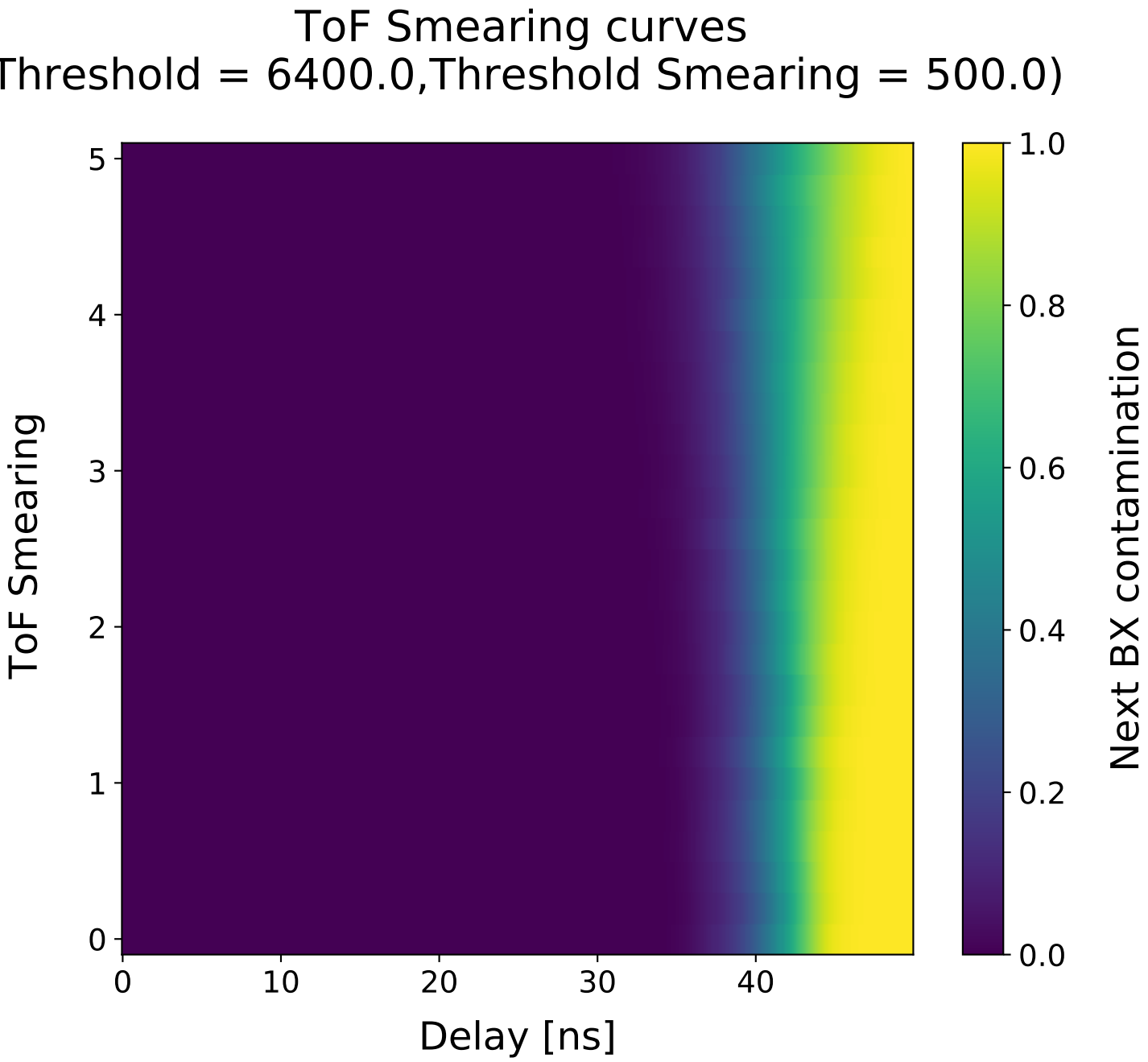

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

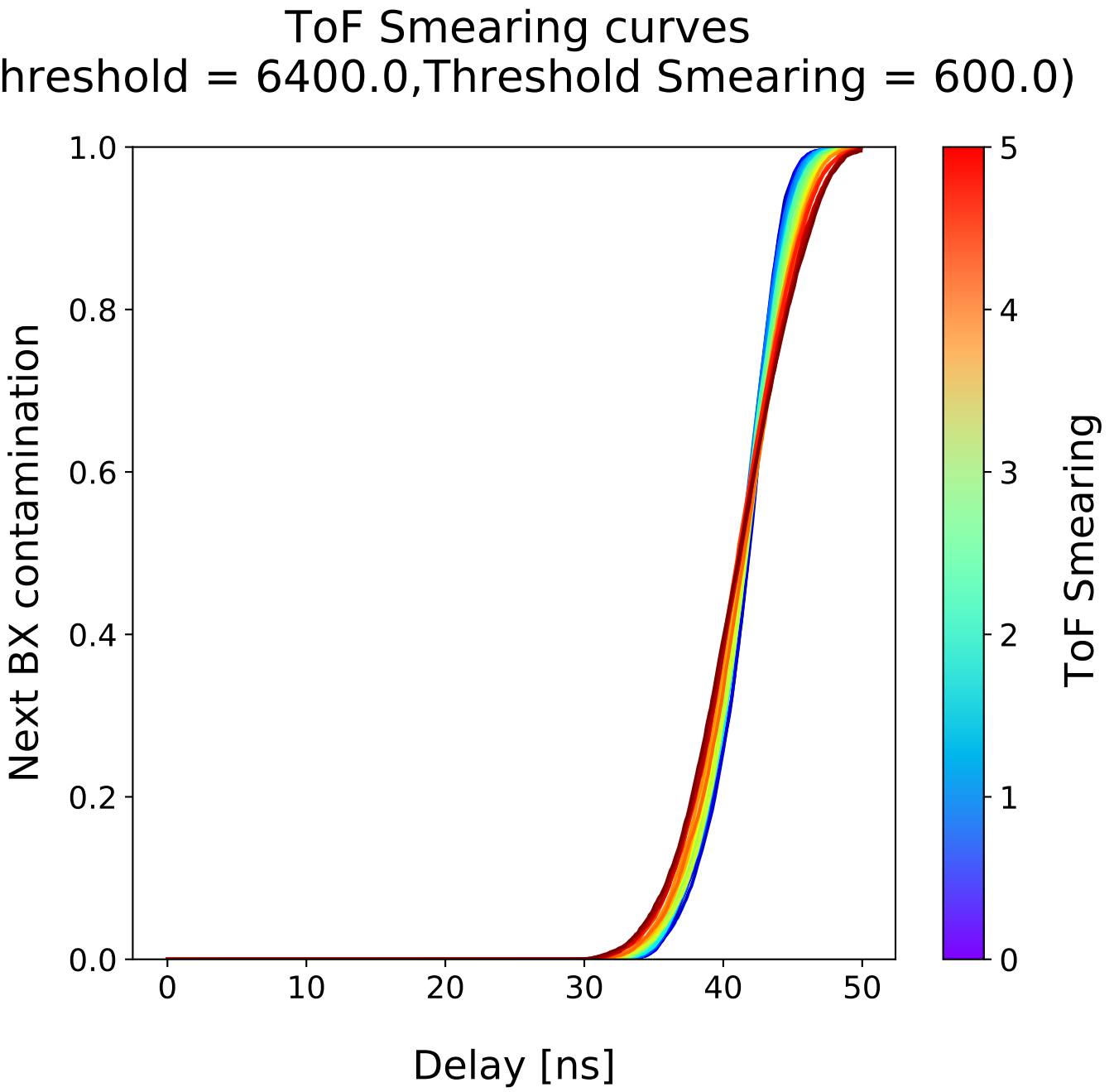

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

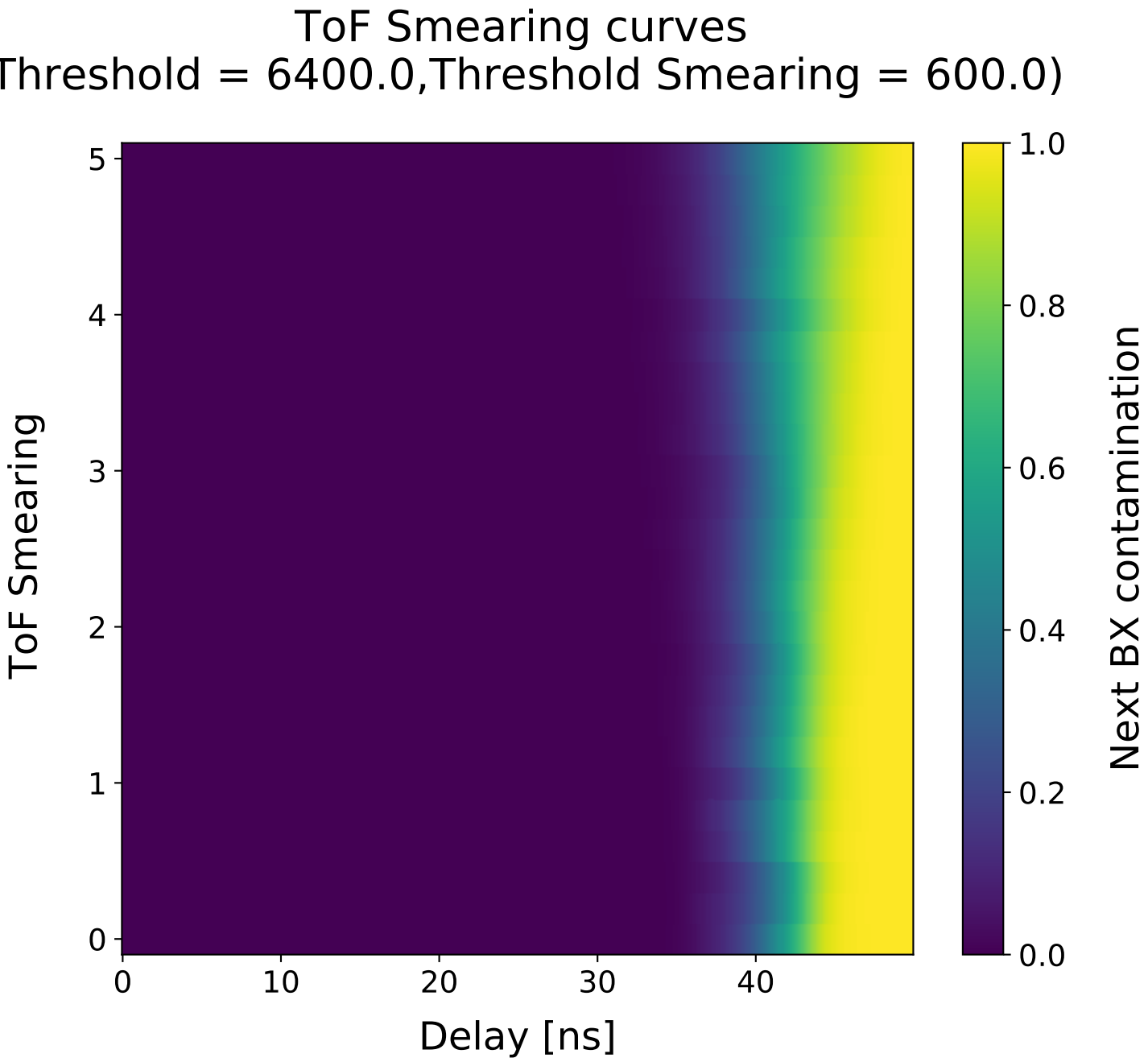

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

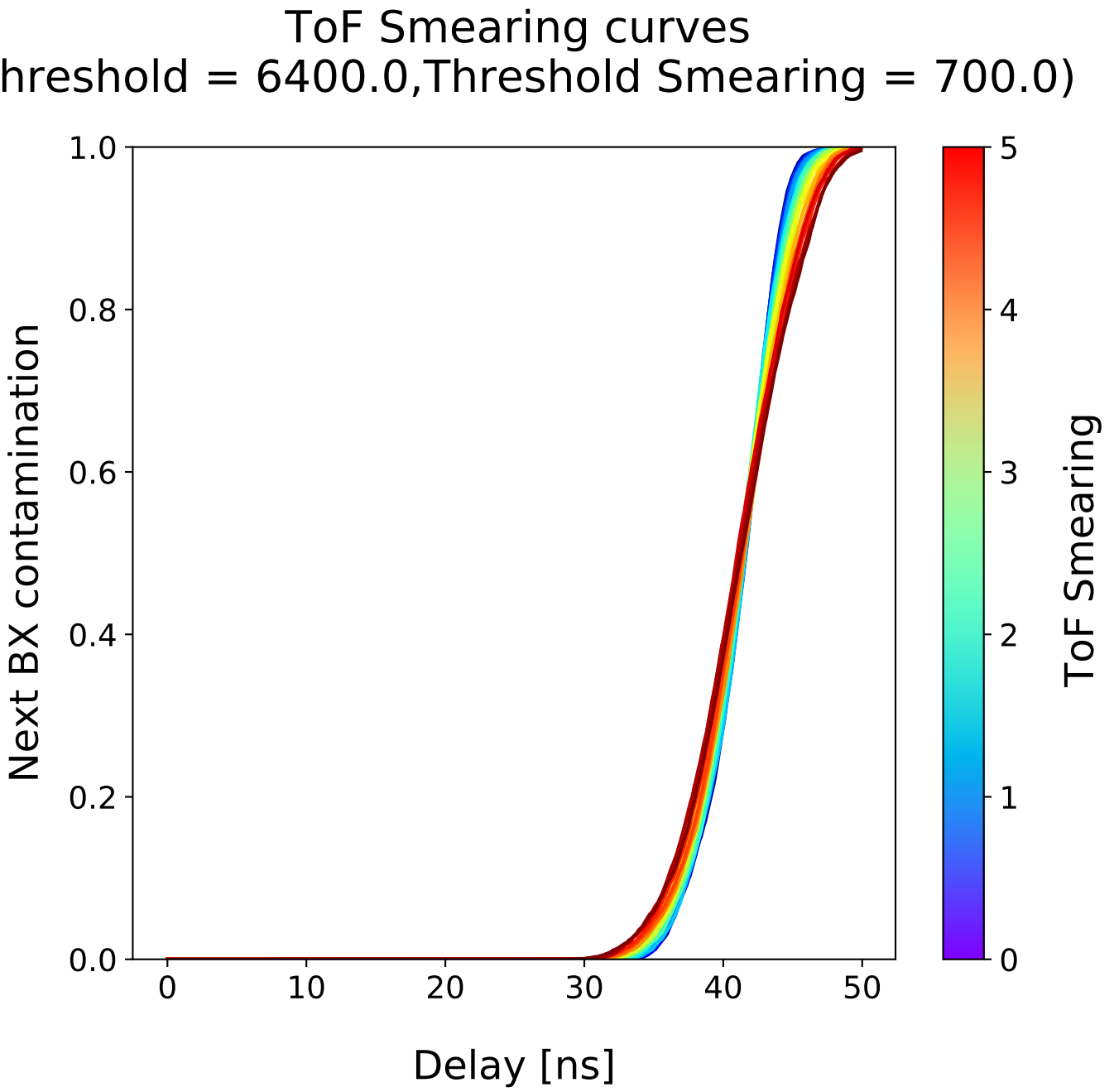

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

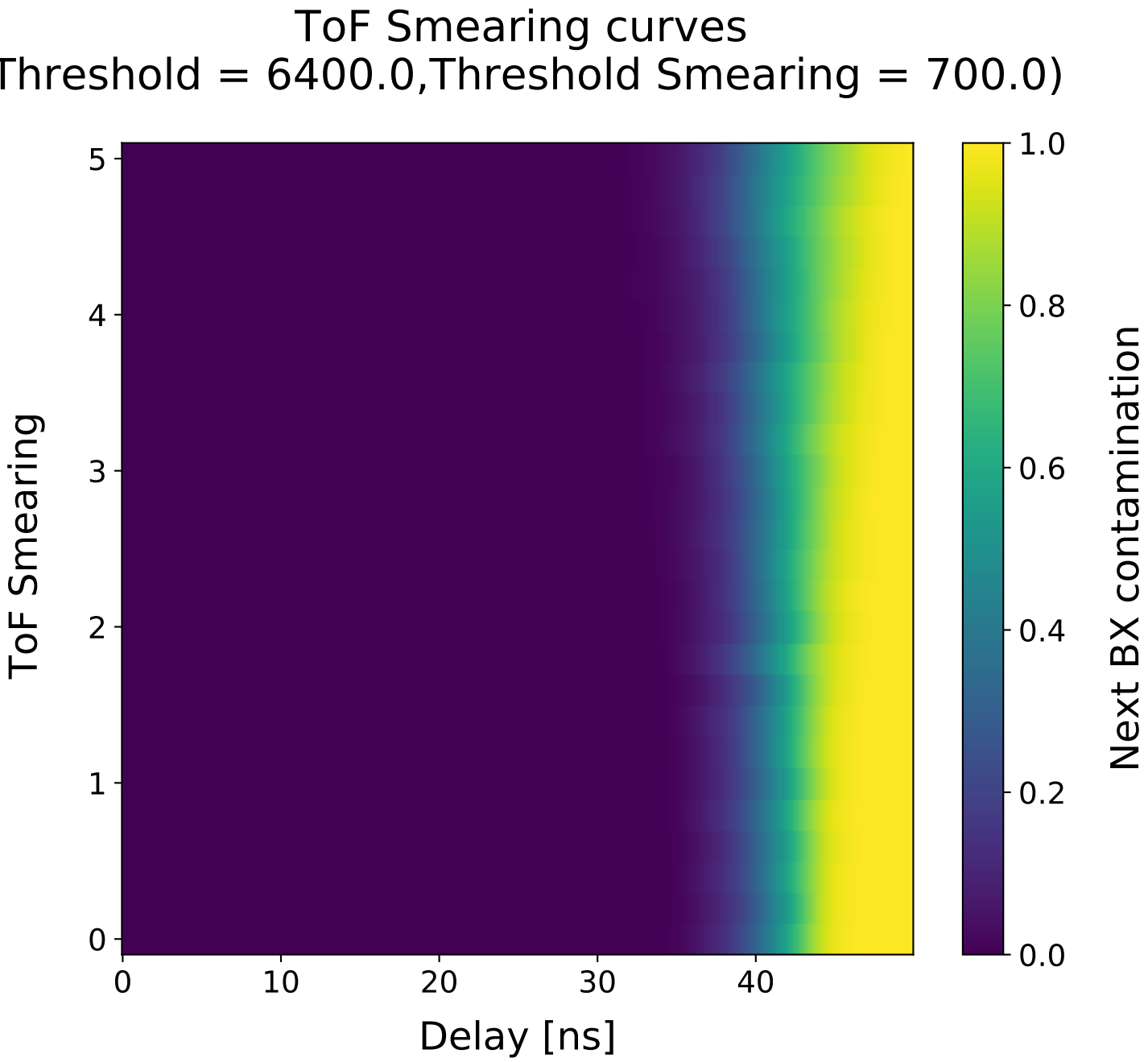

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

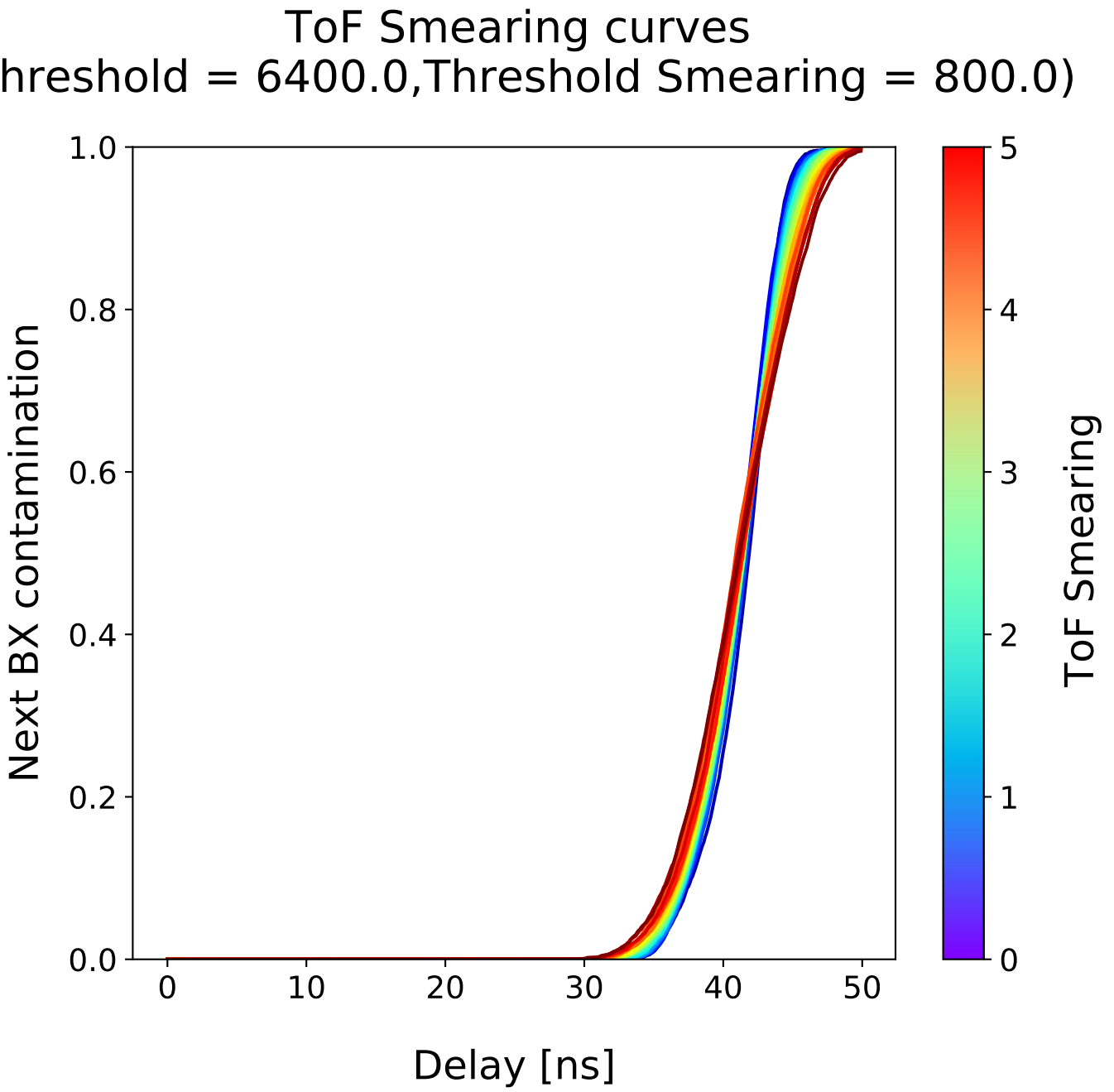

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

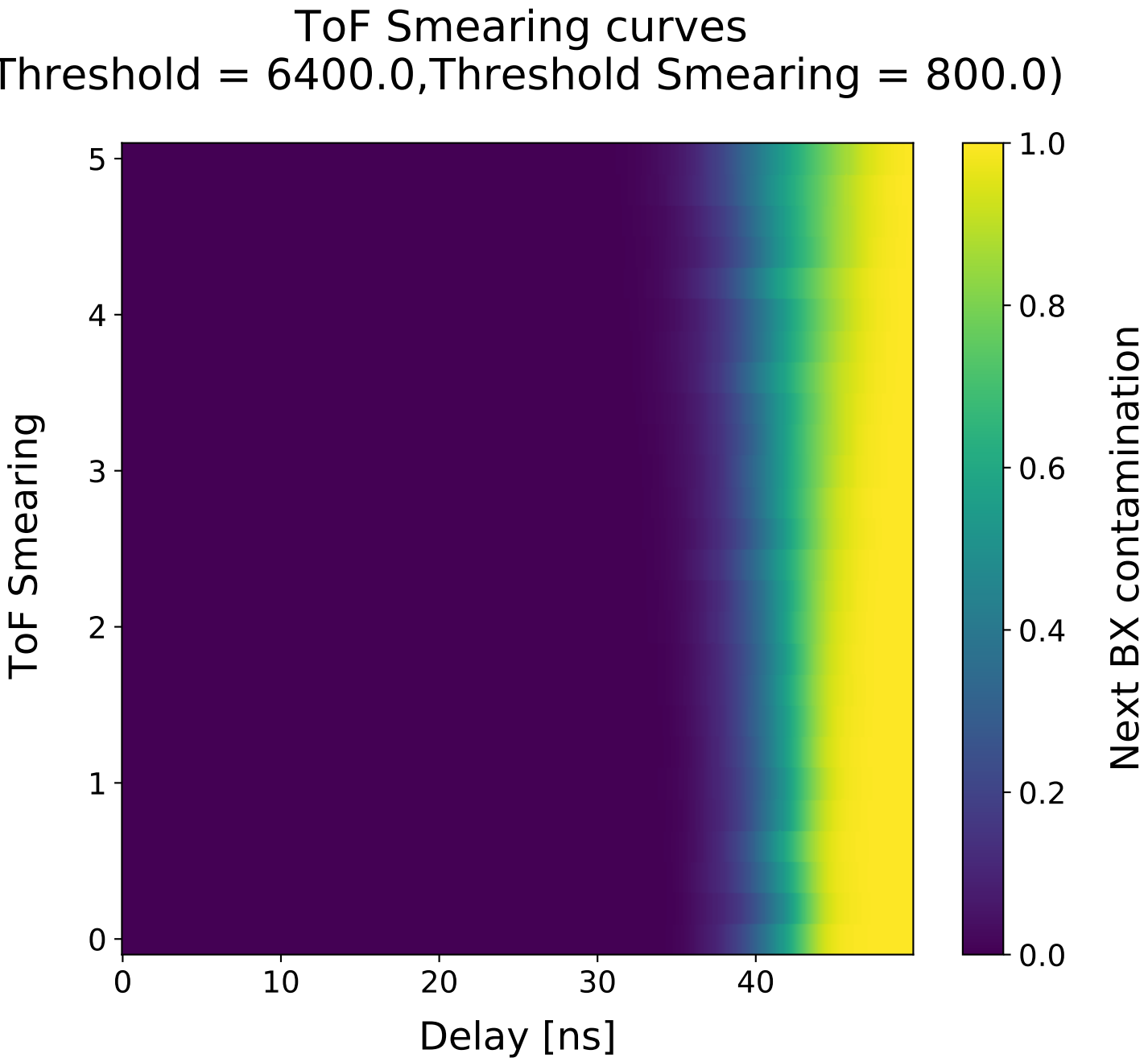

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

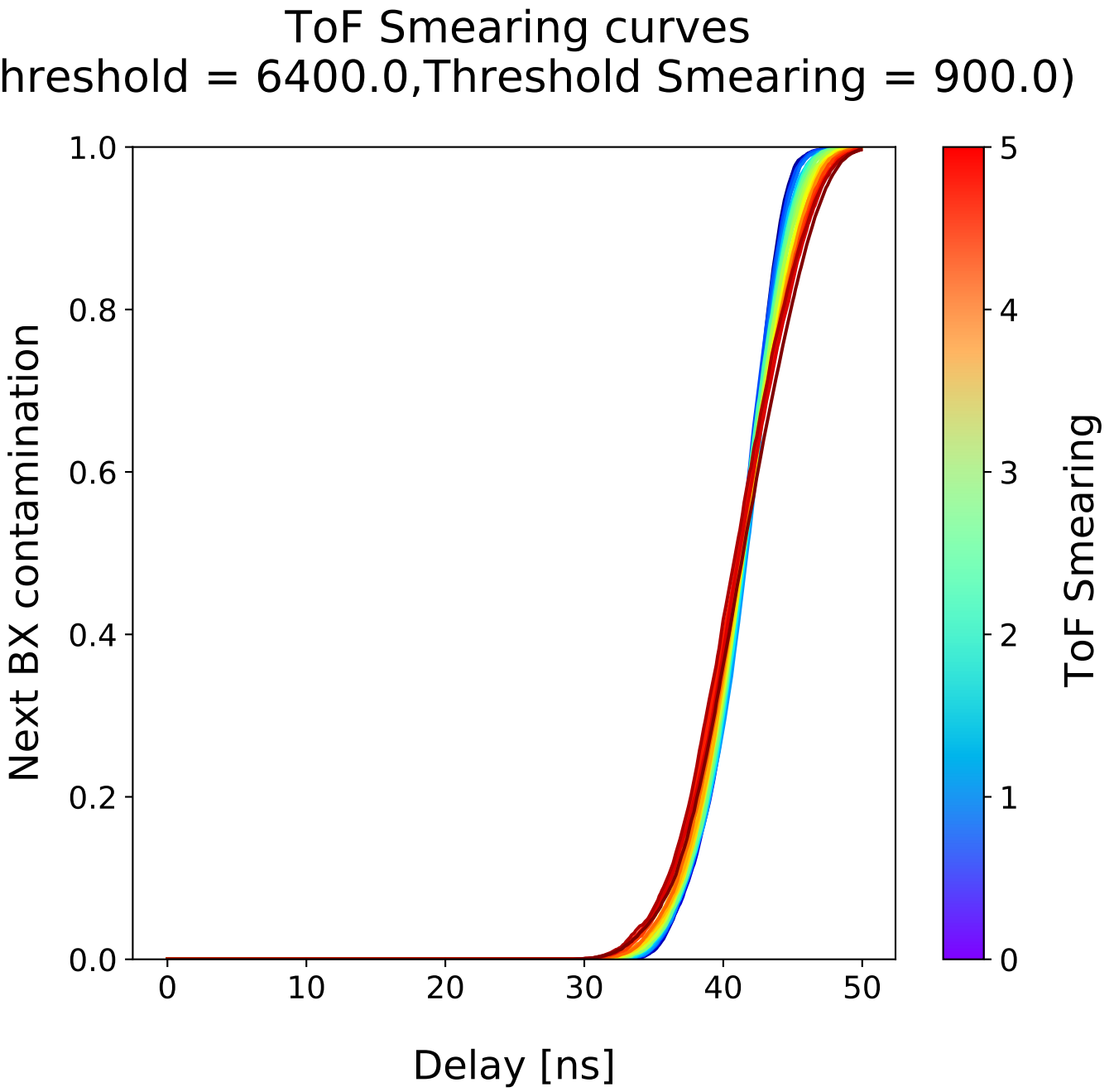

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

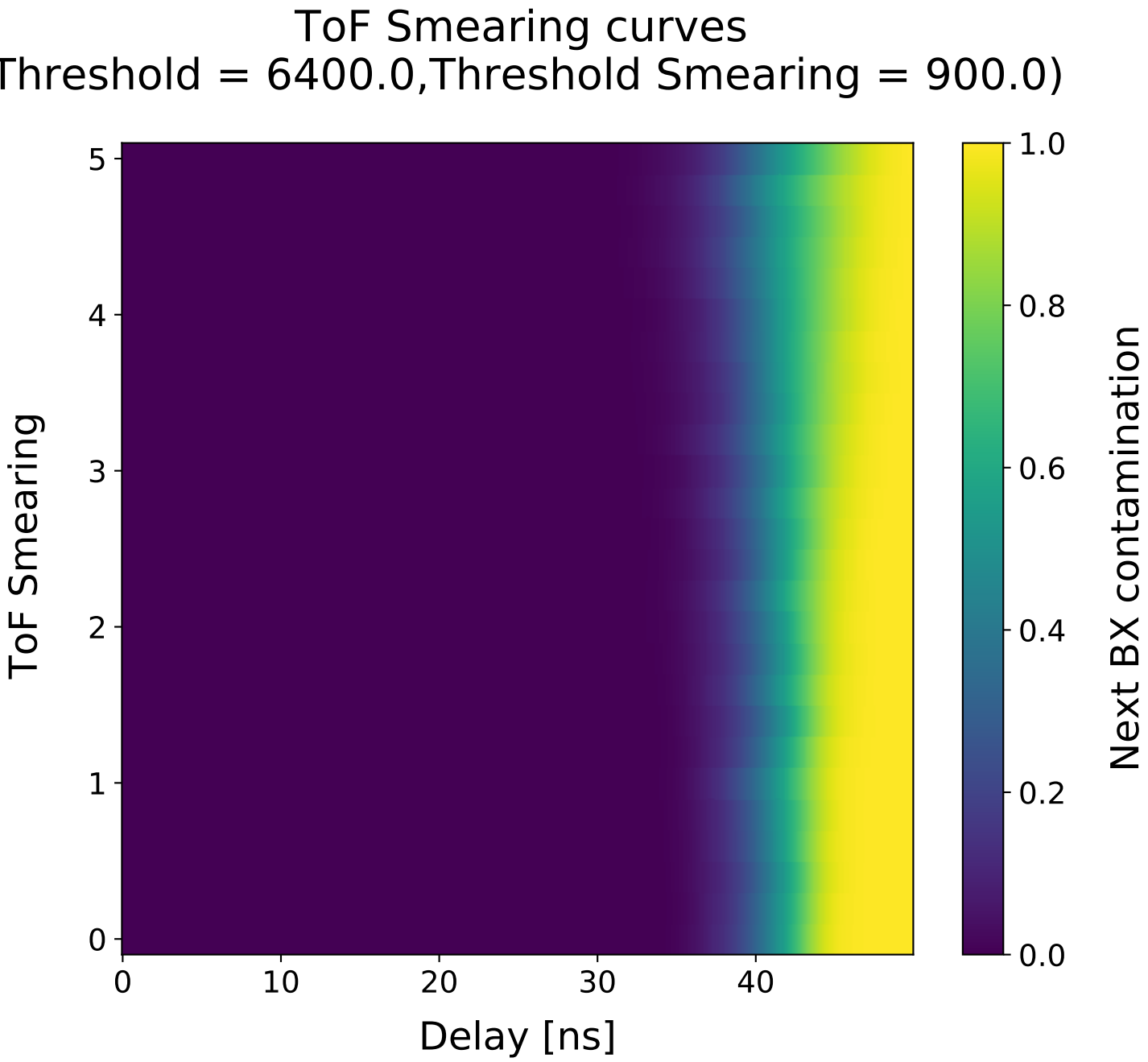

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

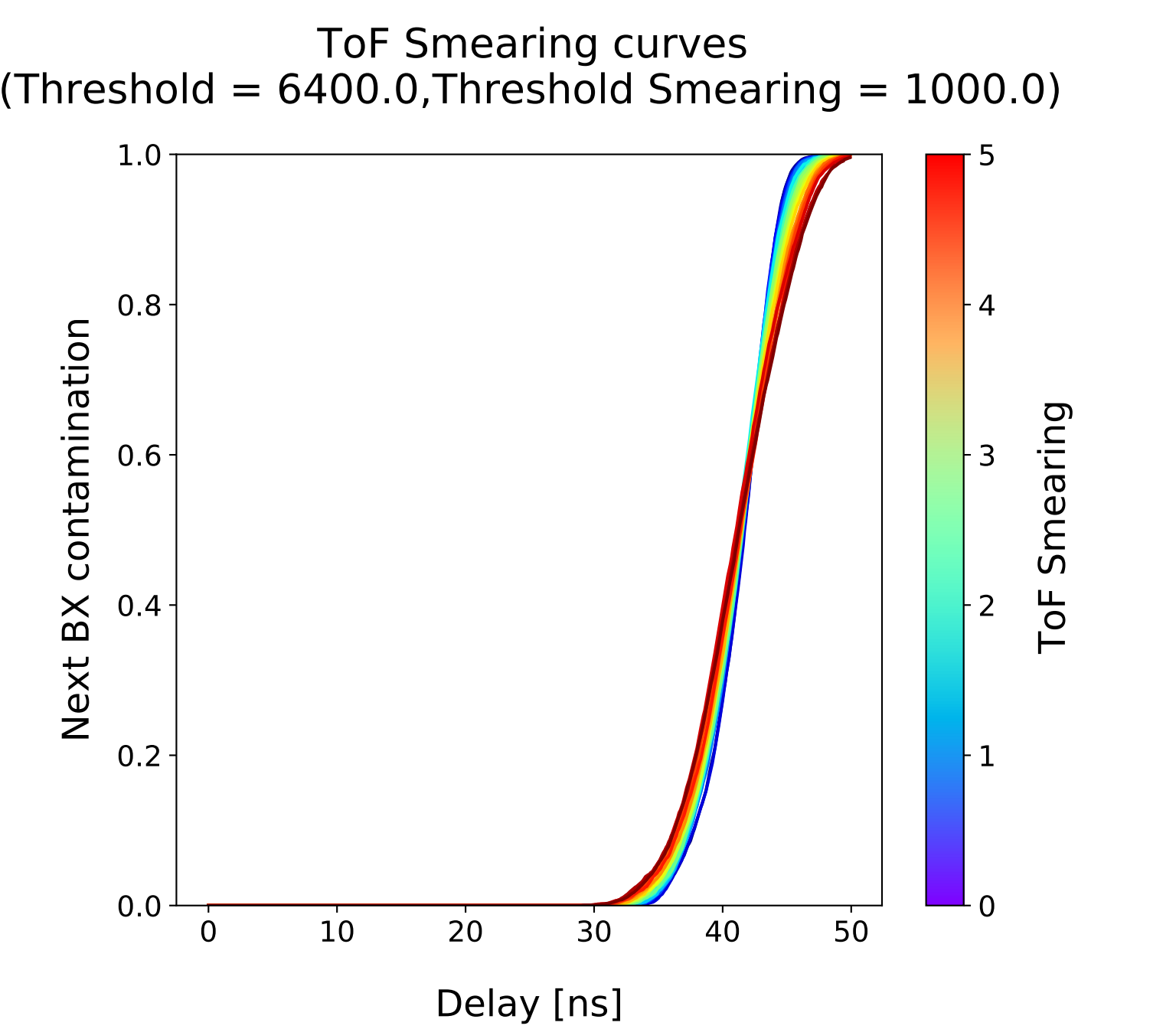

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

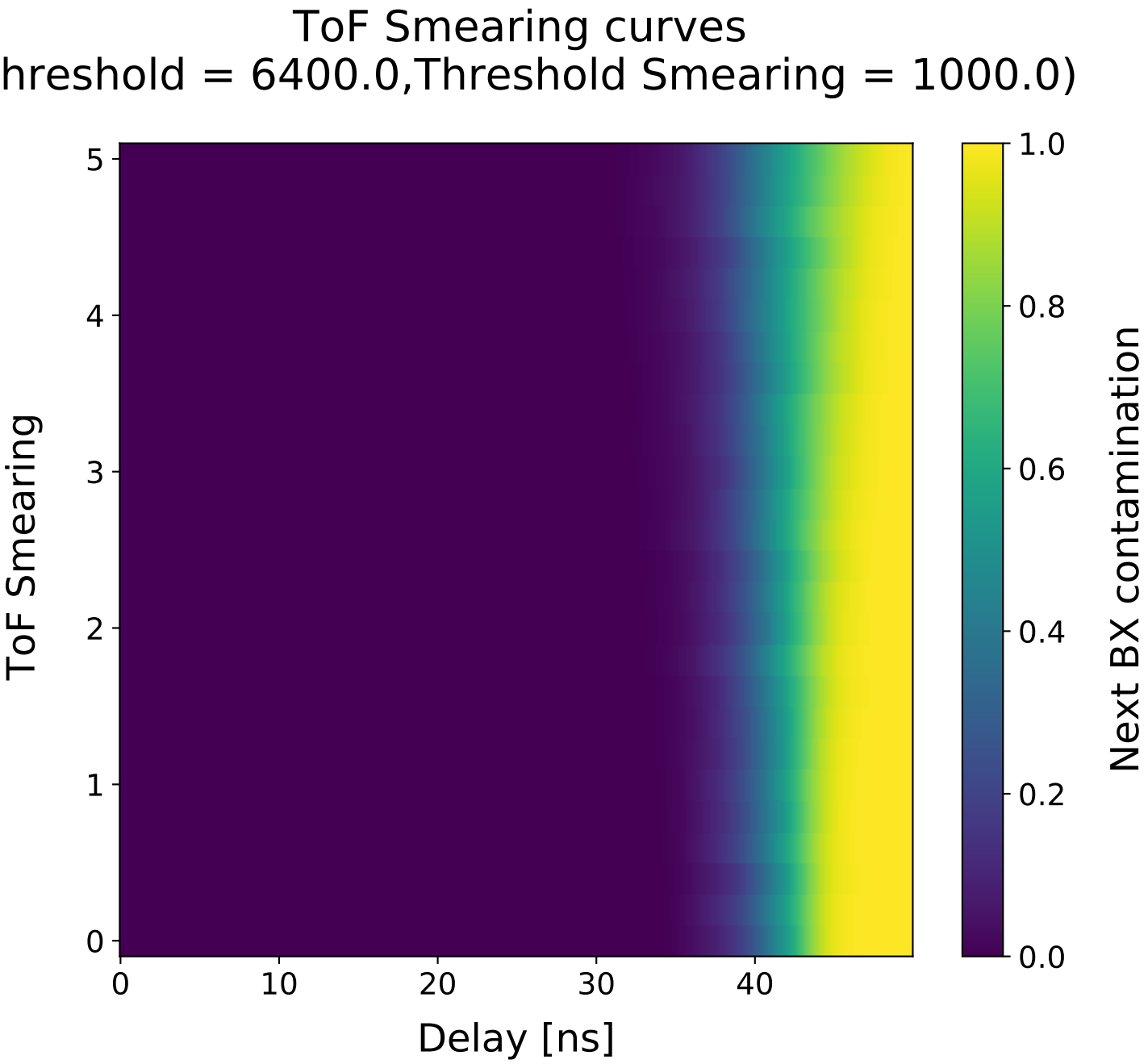

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

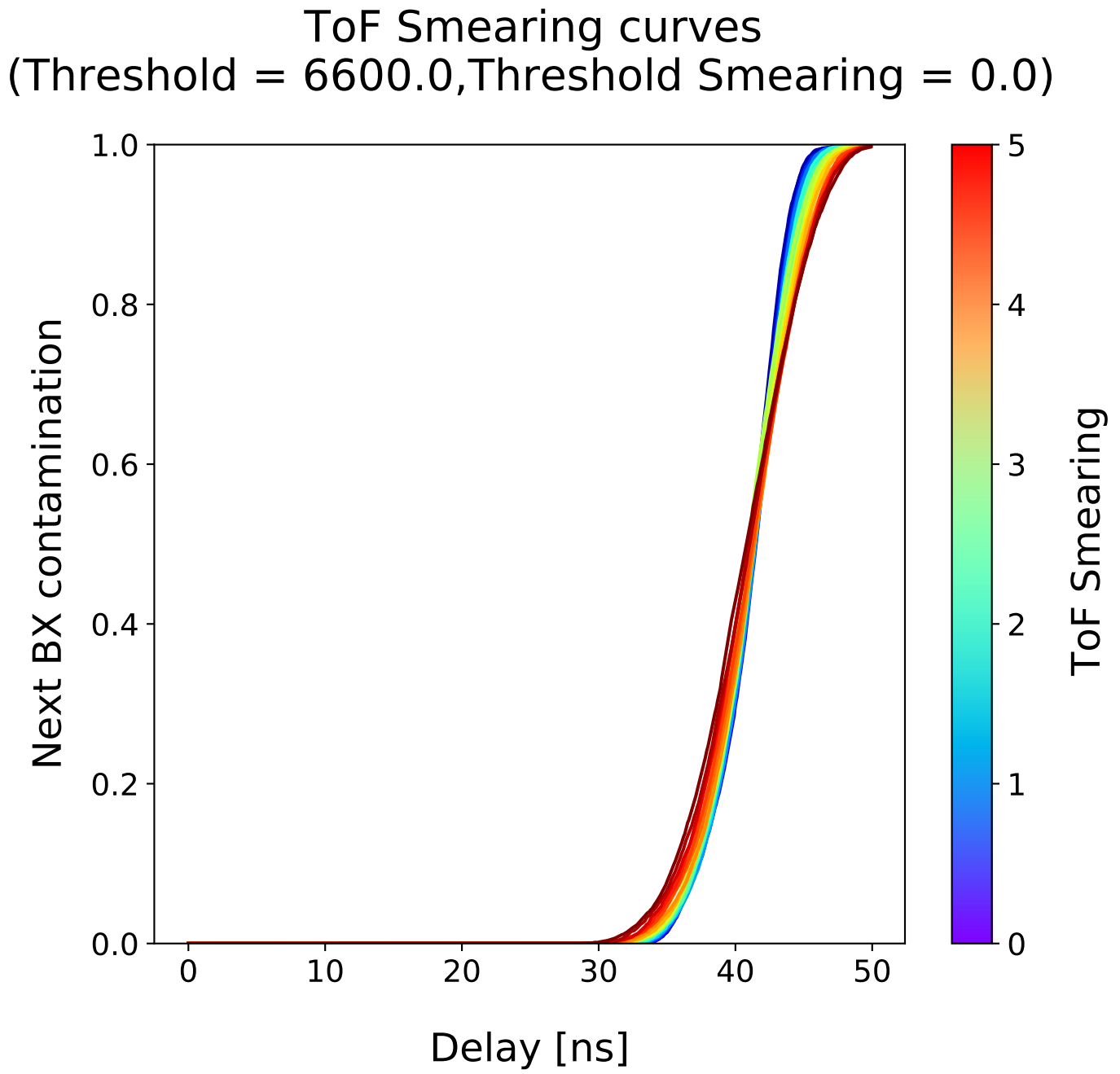

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

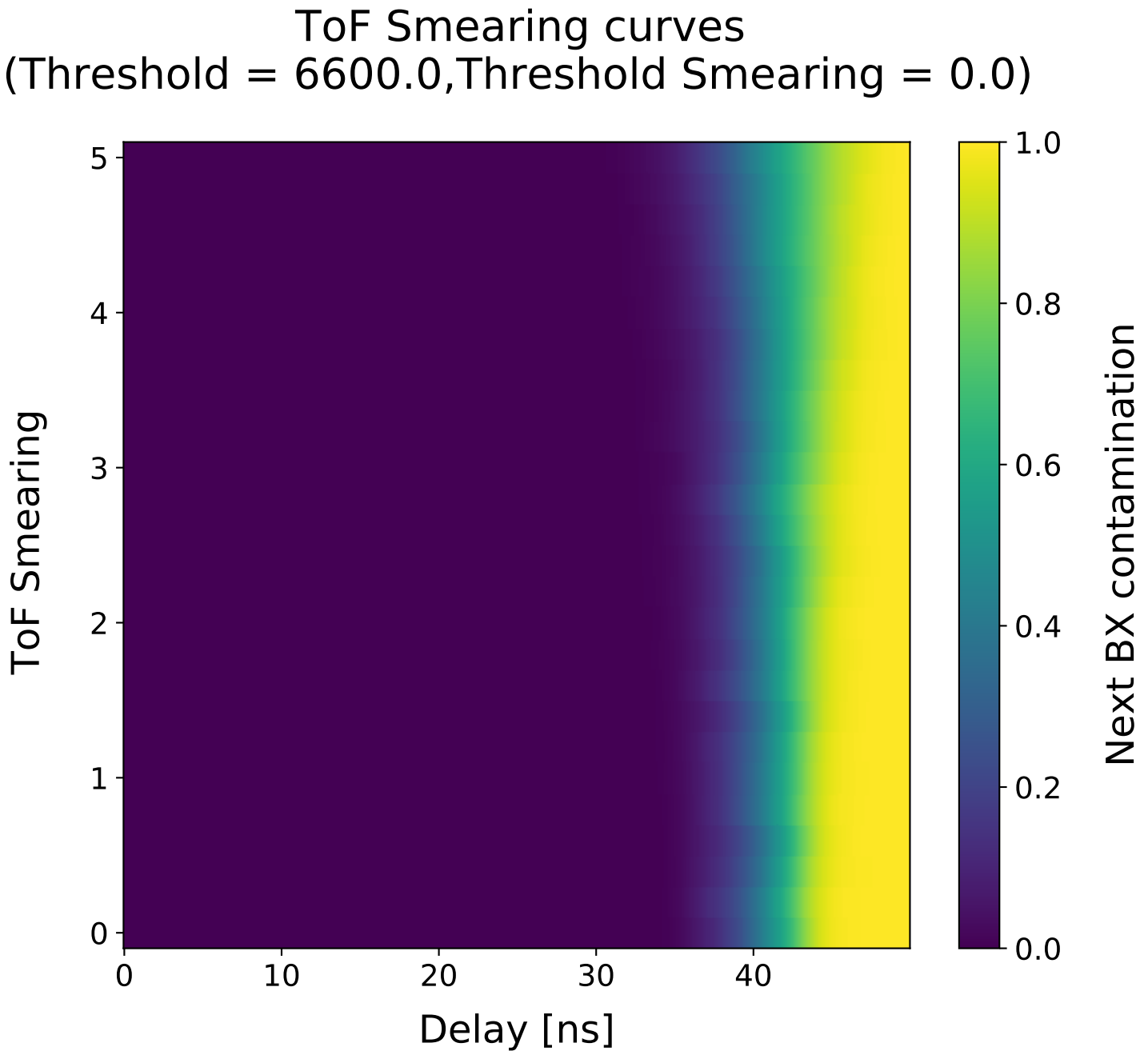

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

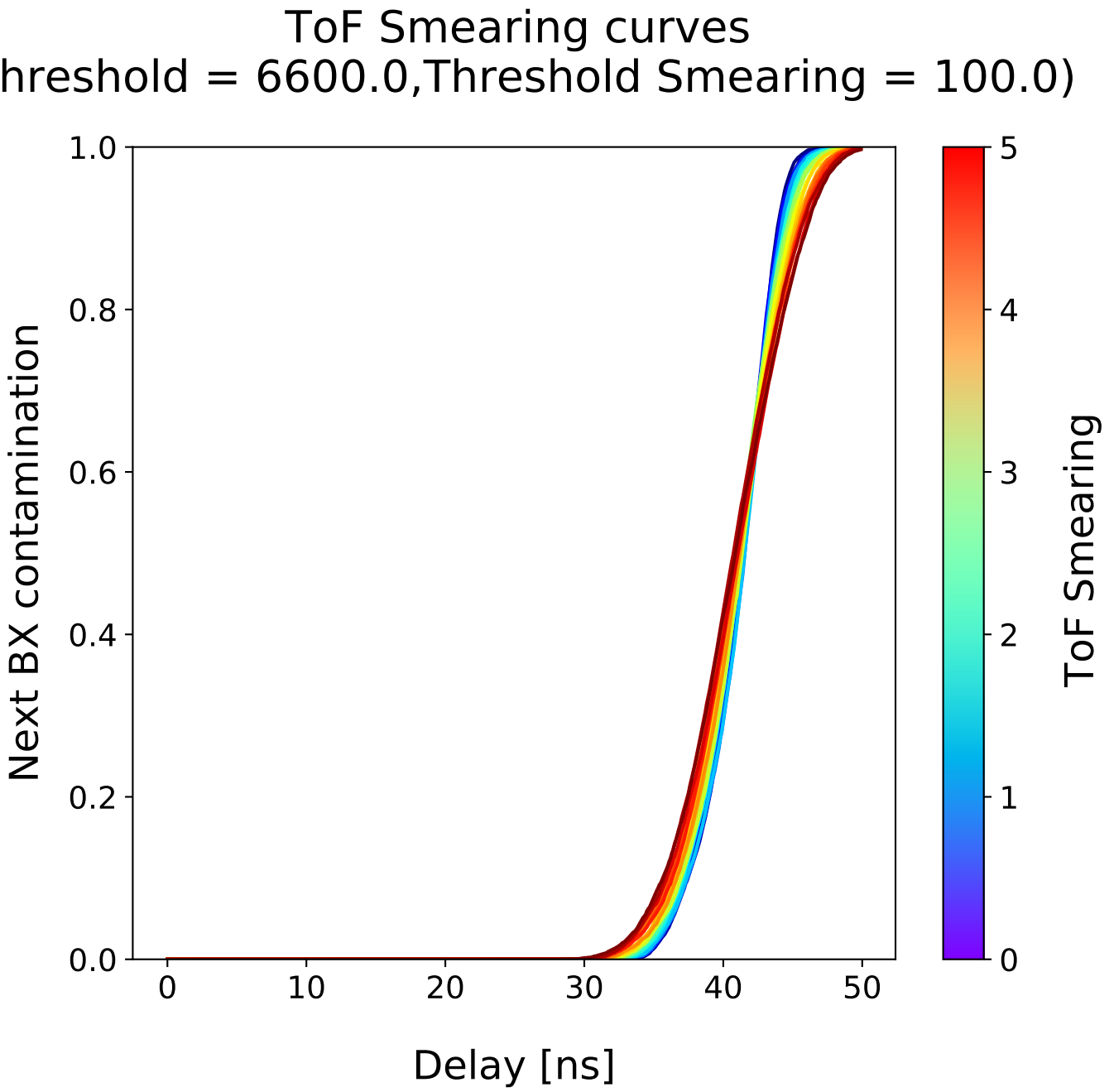

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

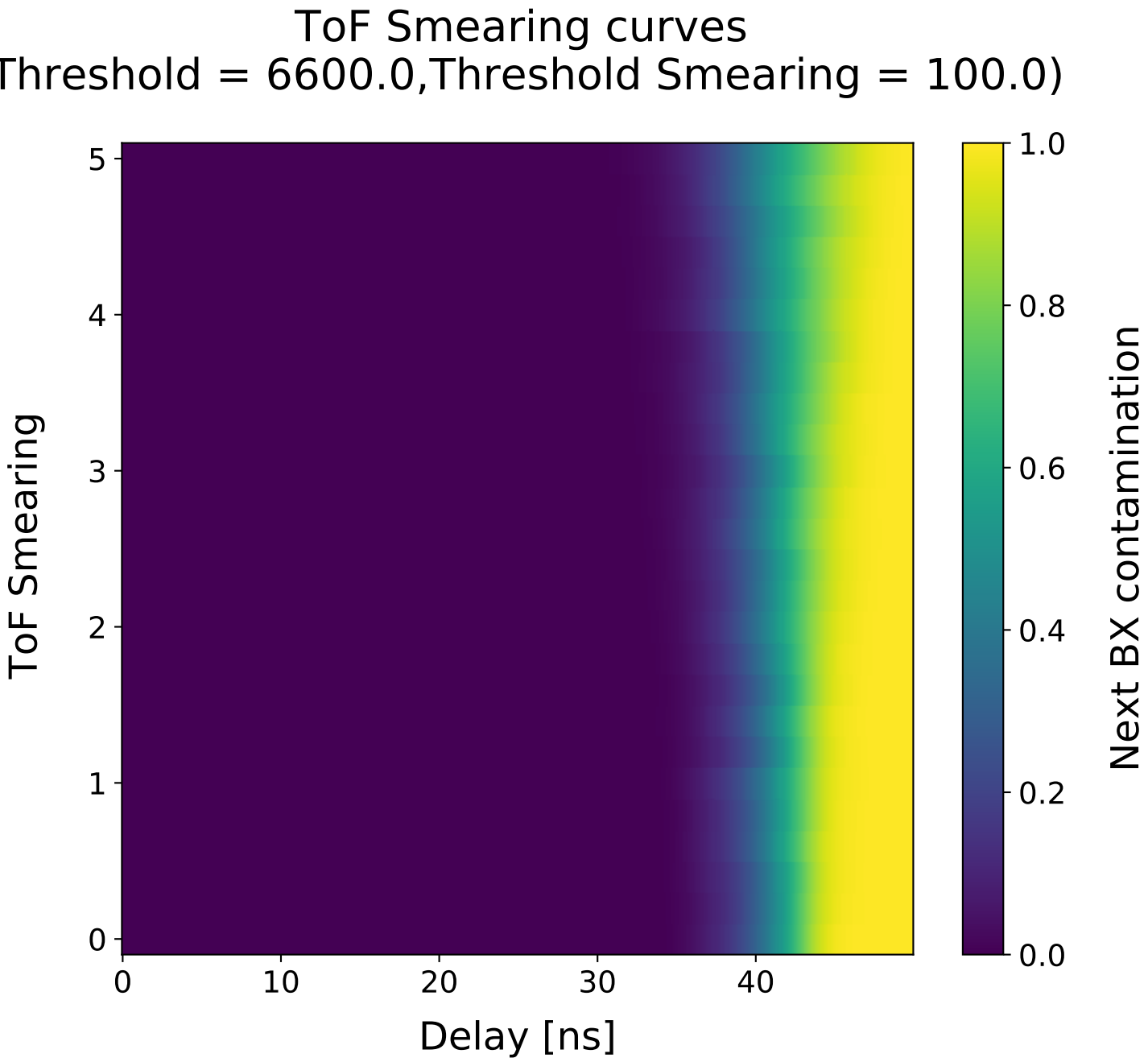

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

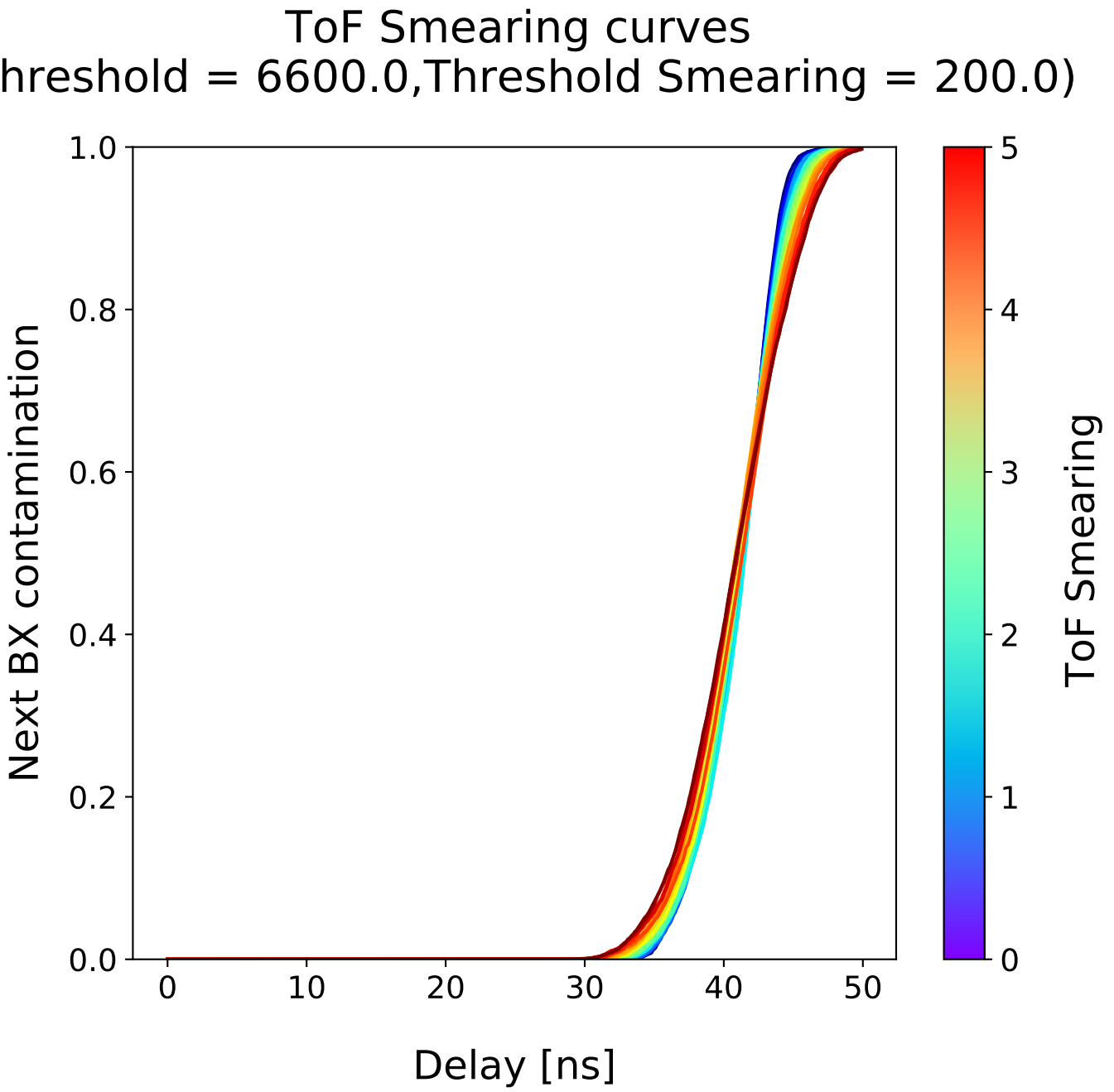

ToF Smearing curves
(Threshold = 6400.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

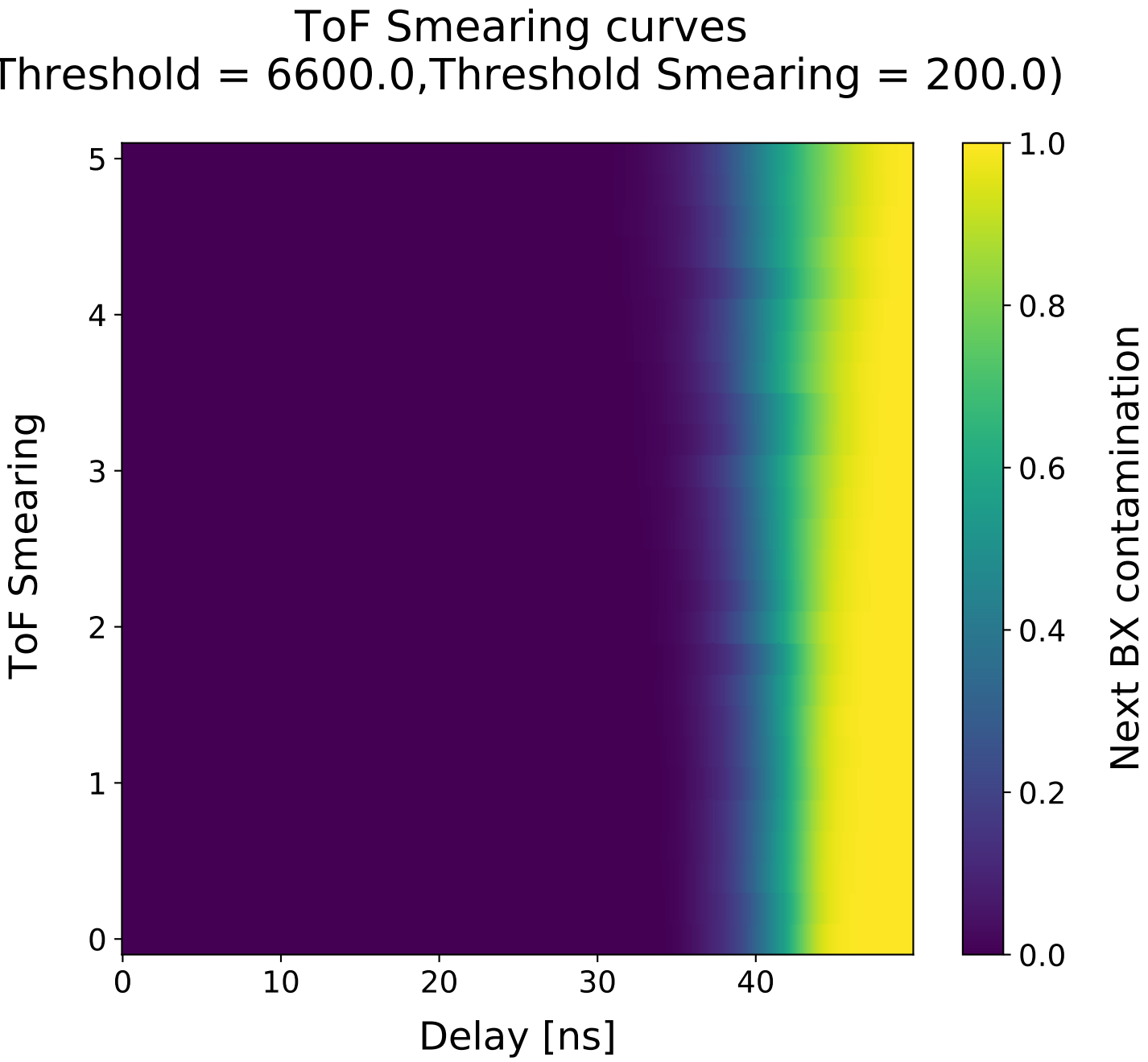

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

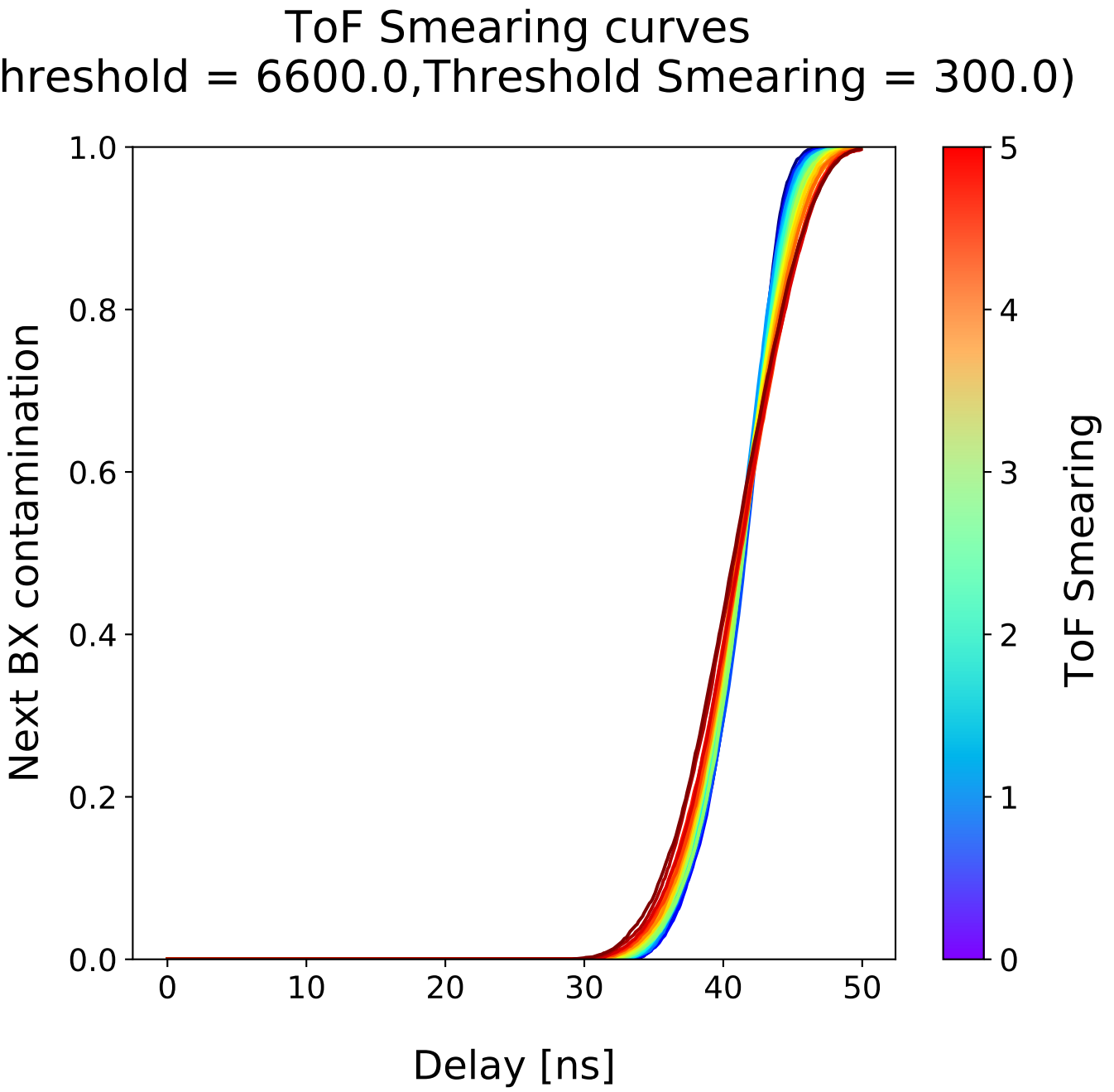

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

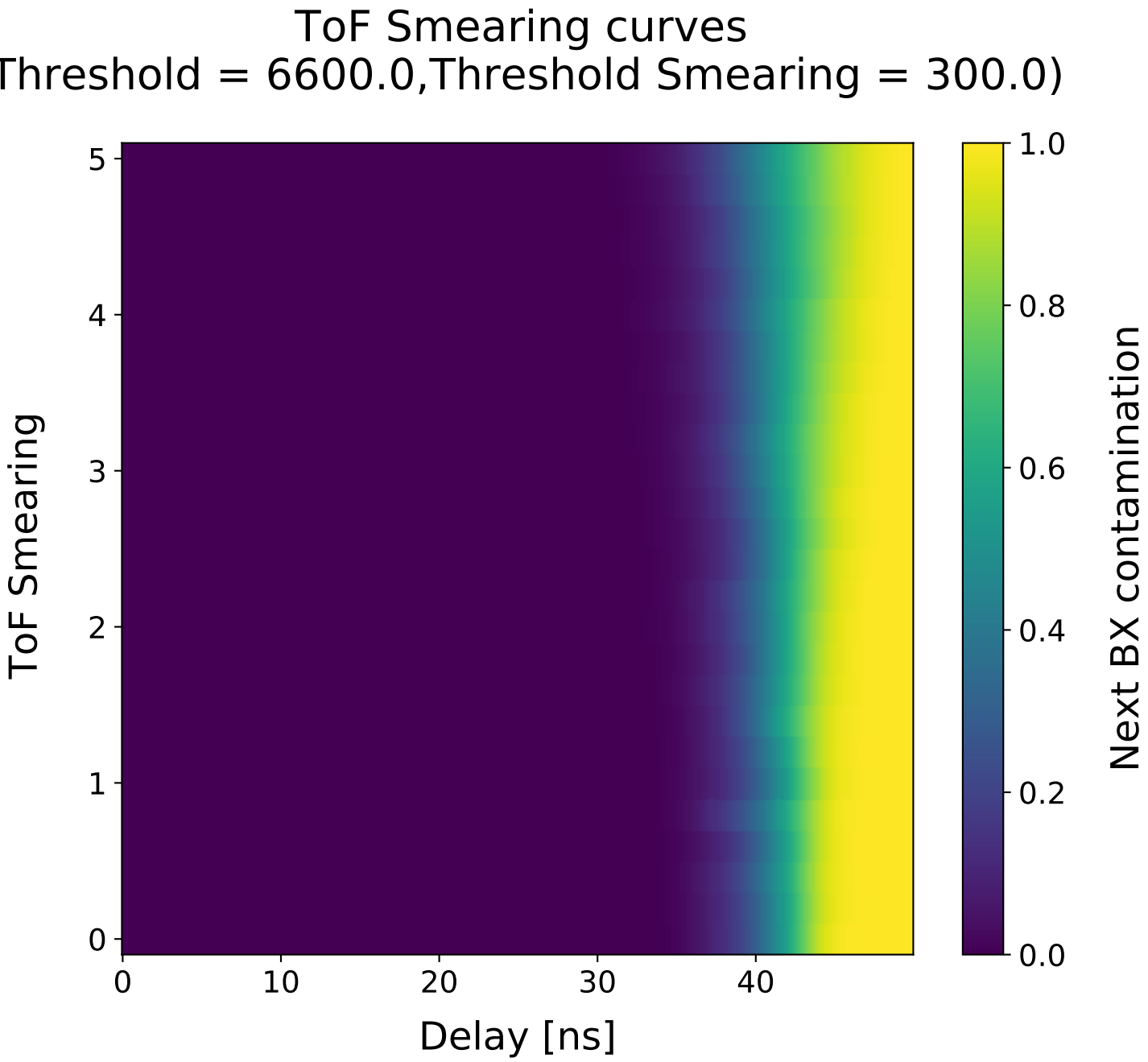

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

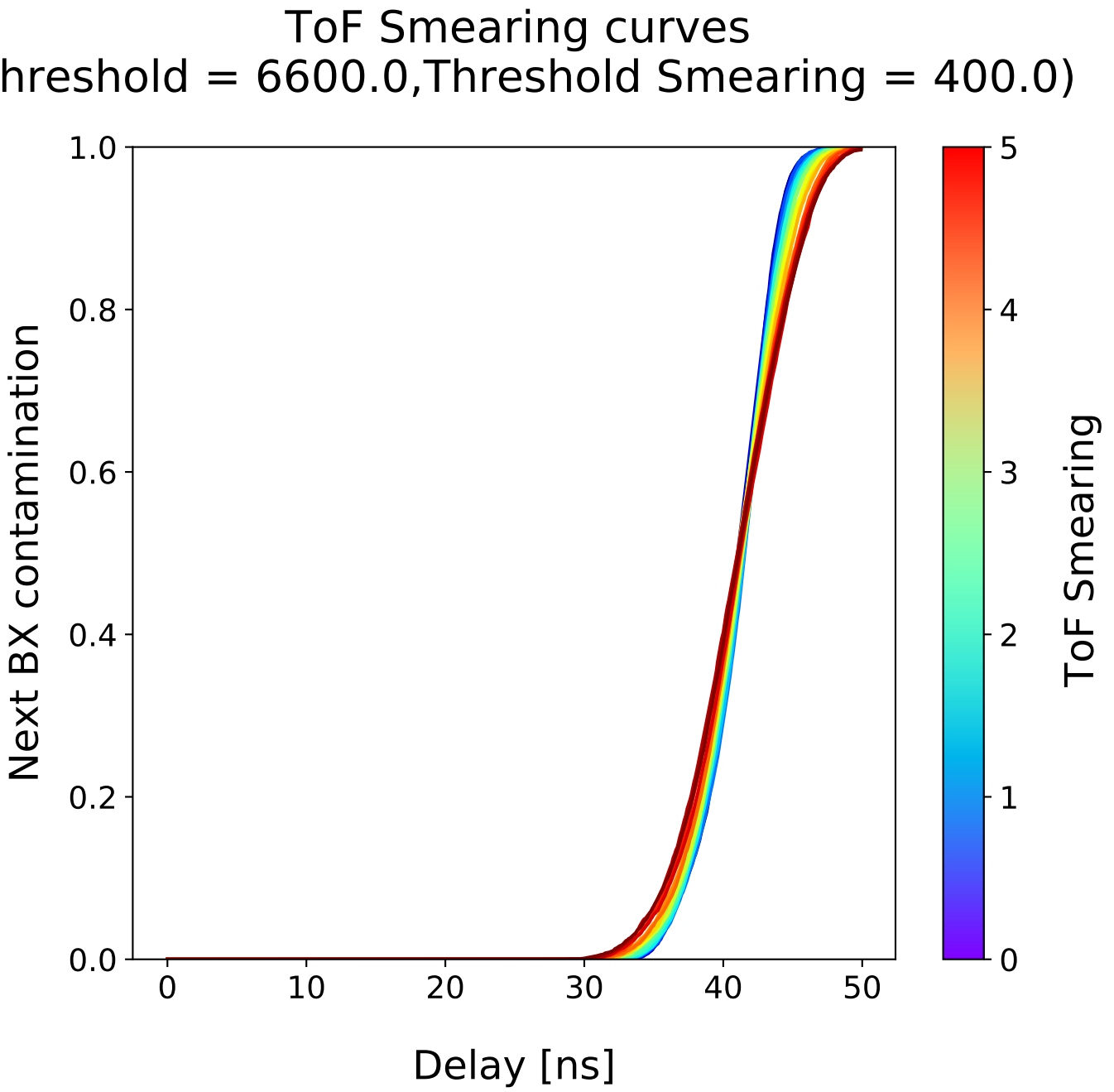

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

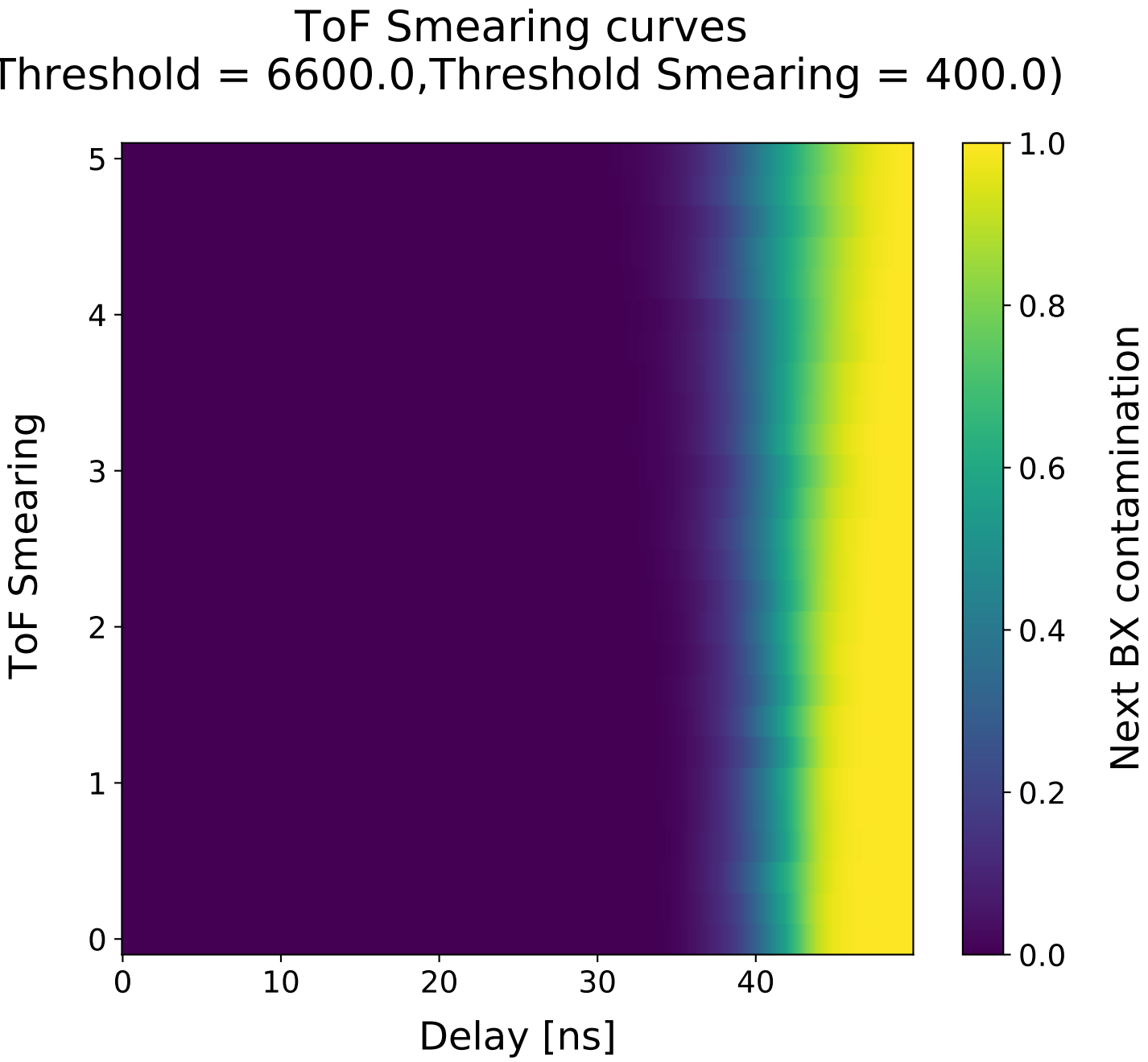

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

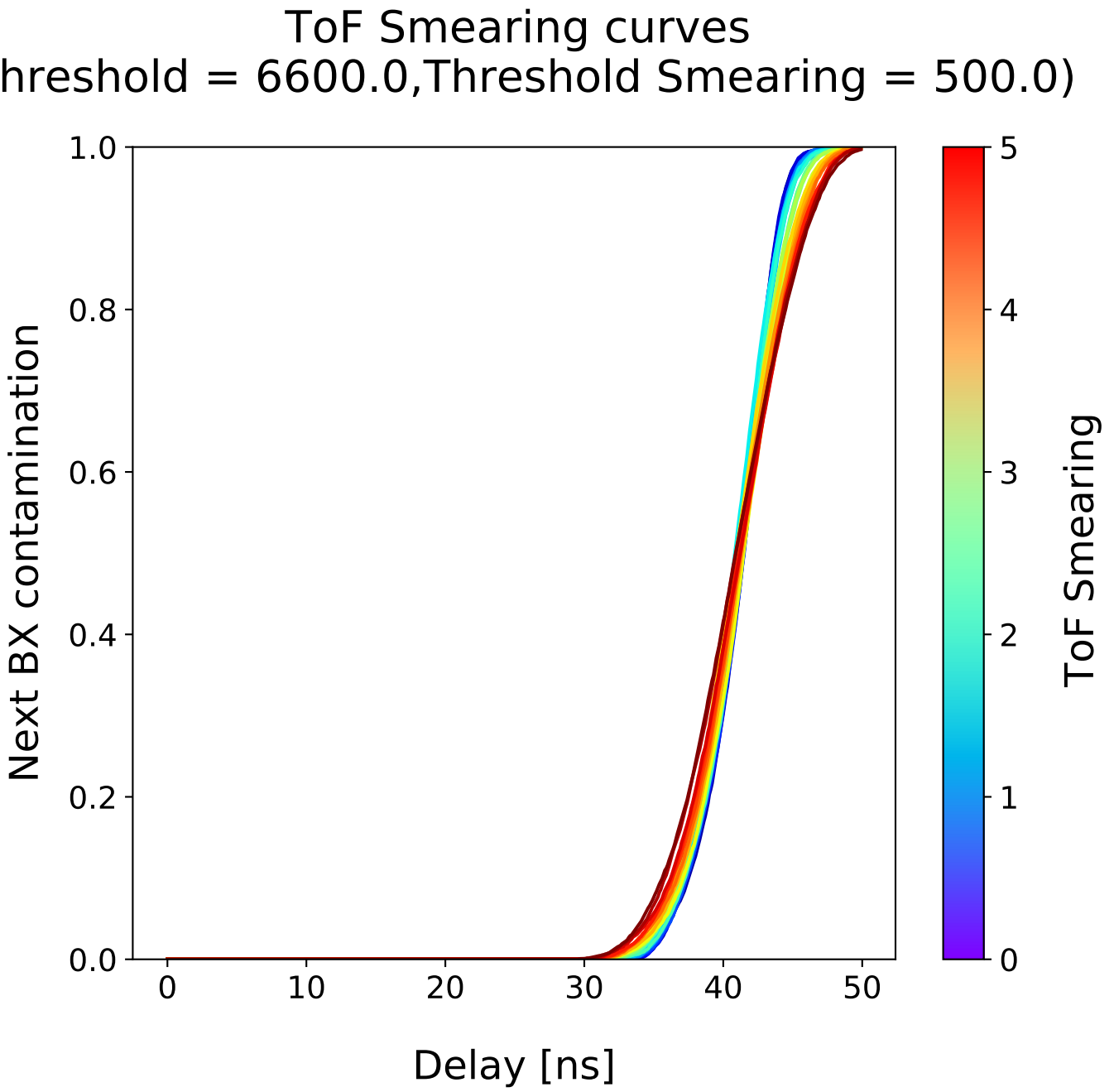

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

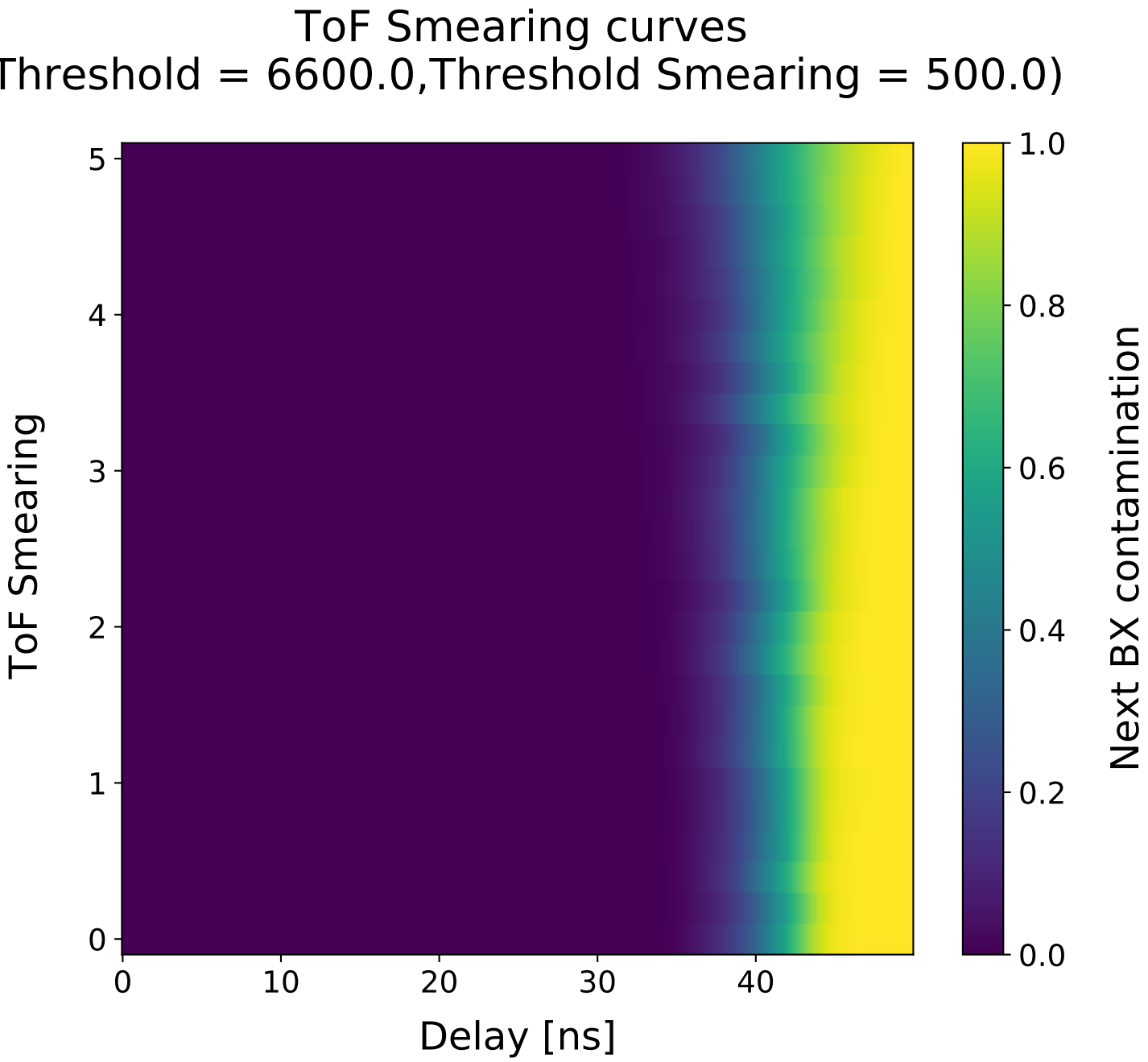

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

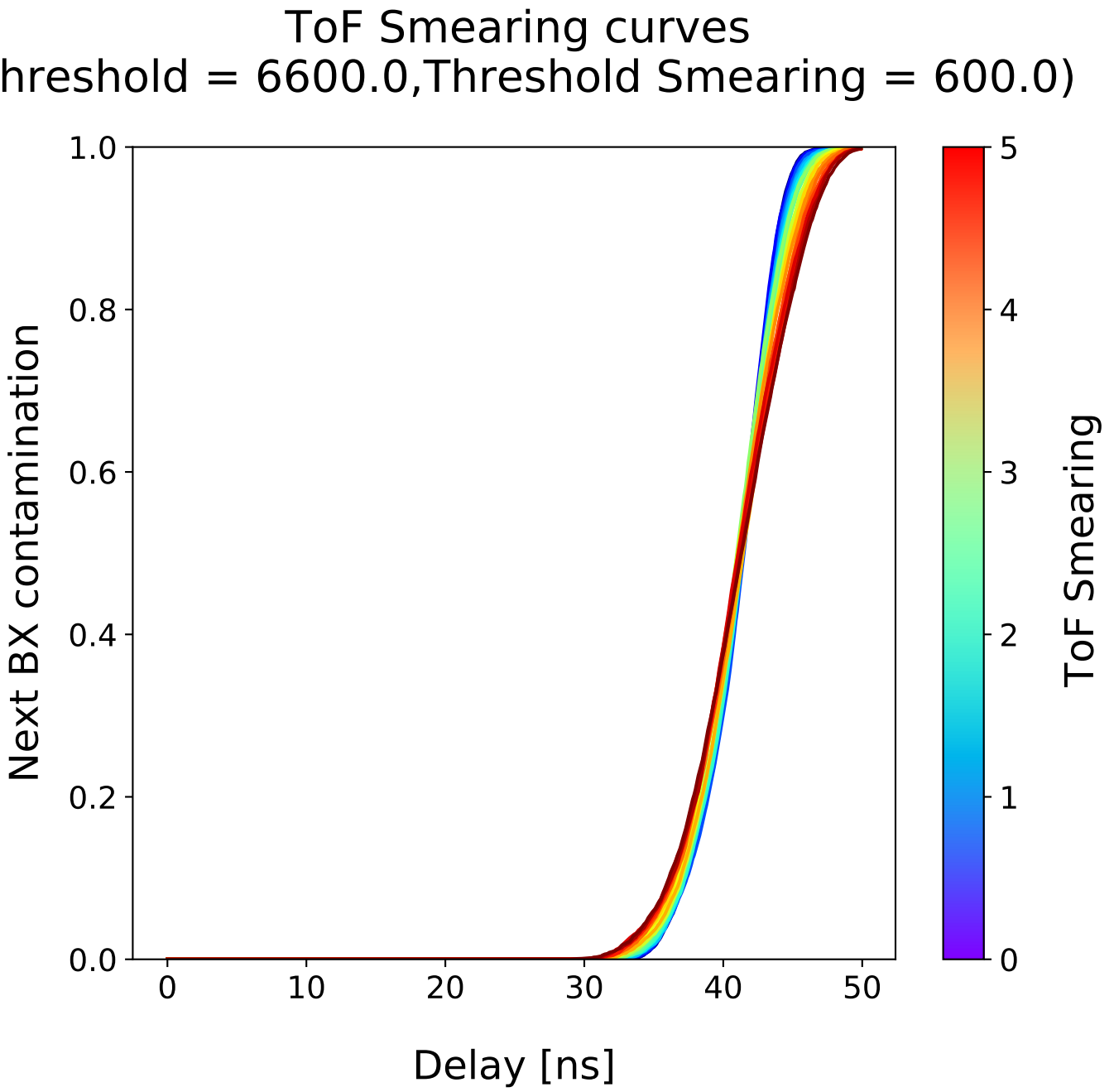

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

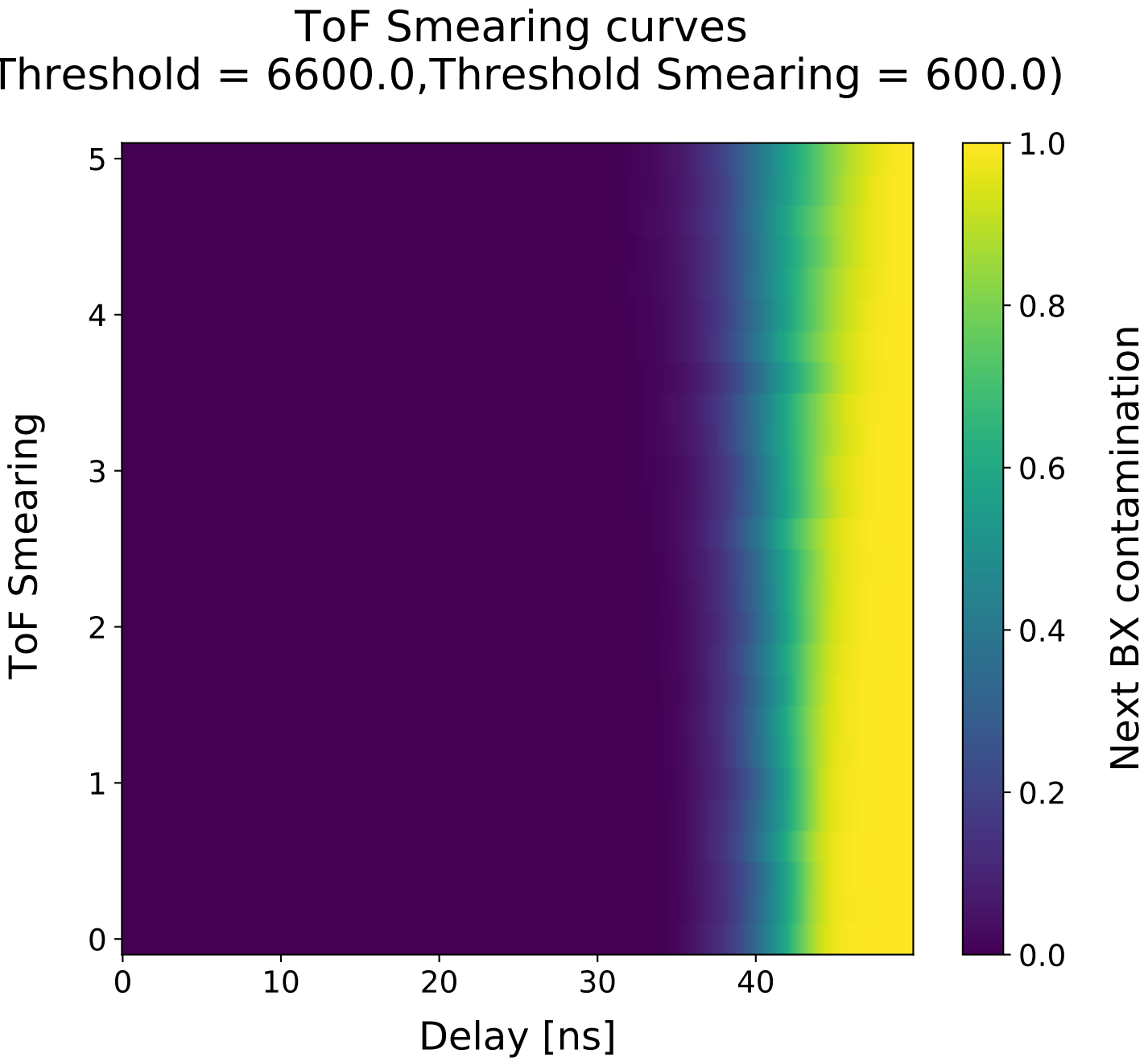

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

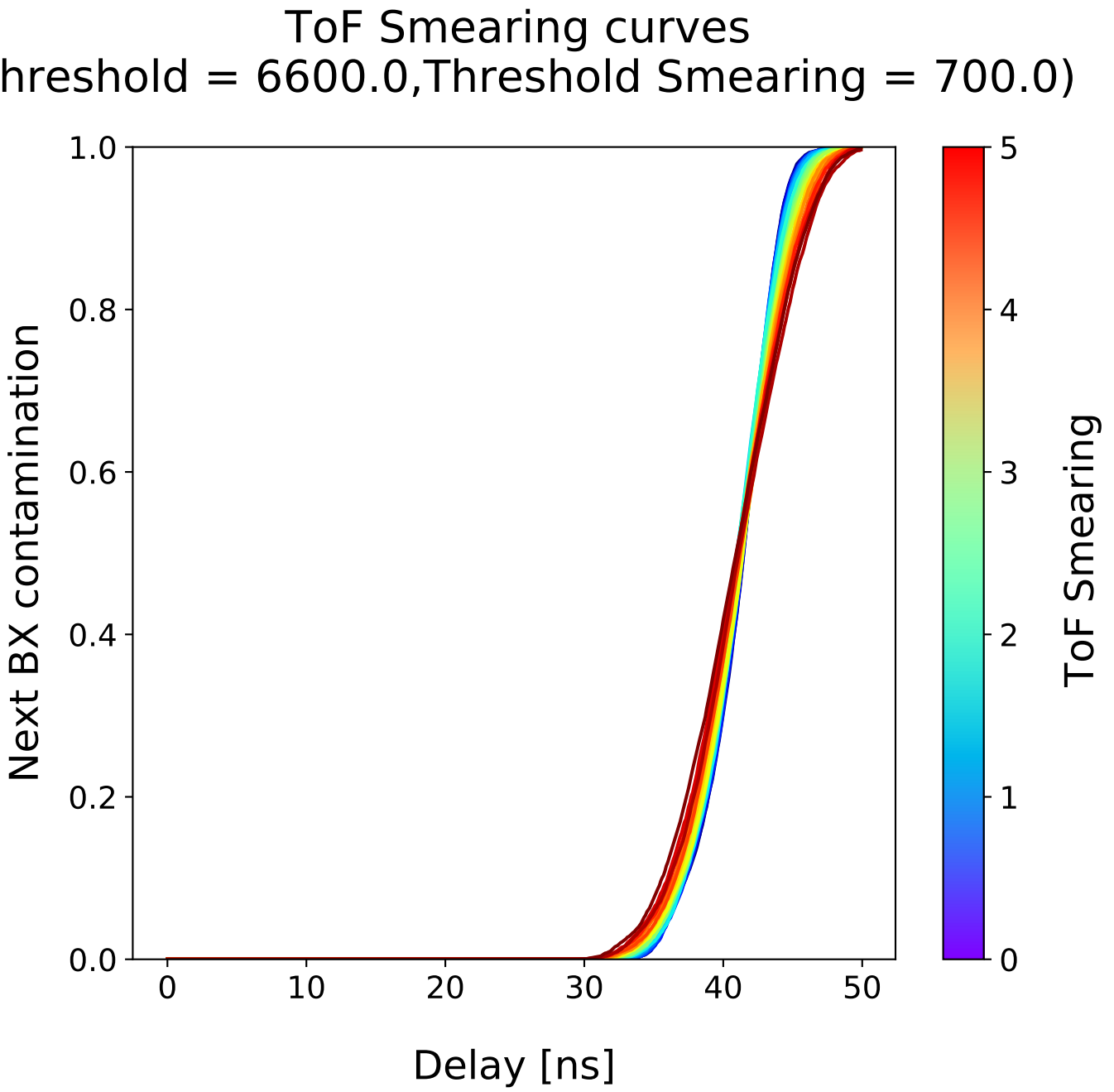

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

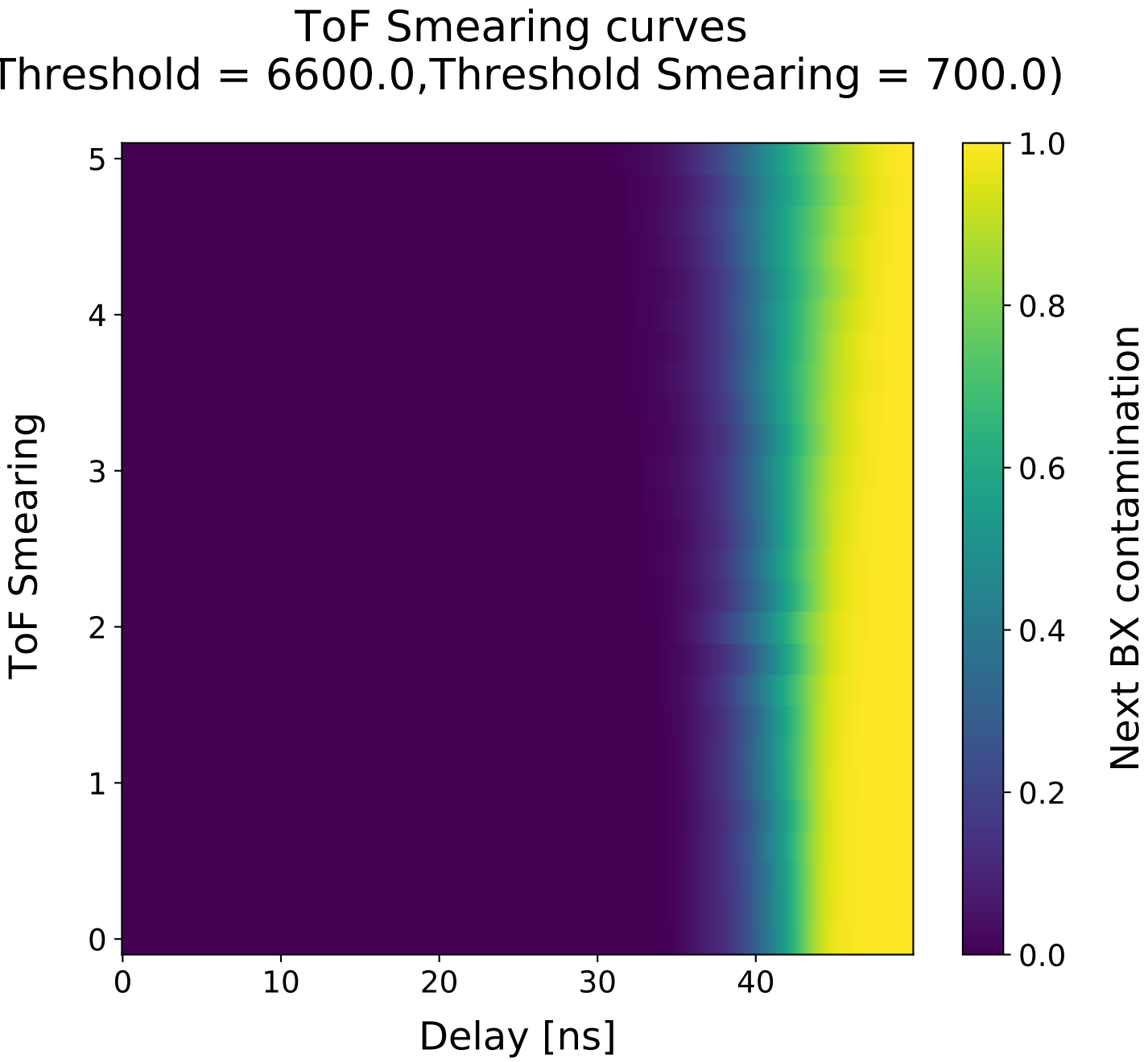

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

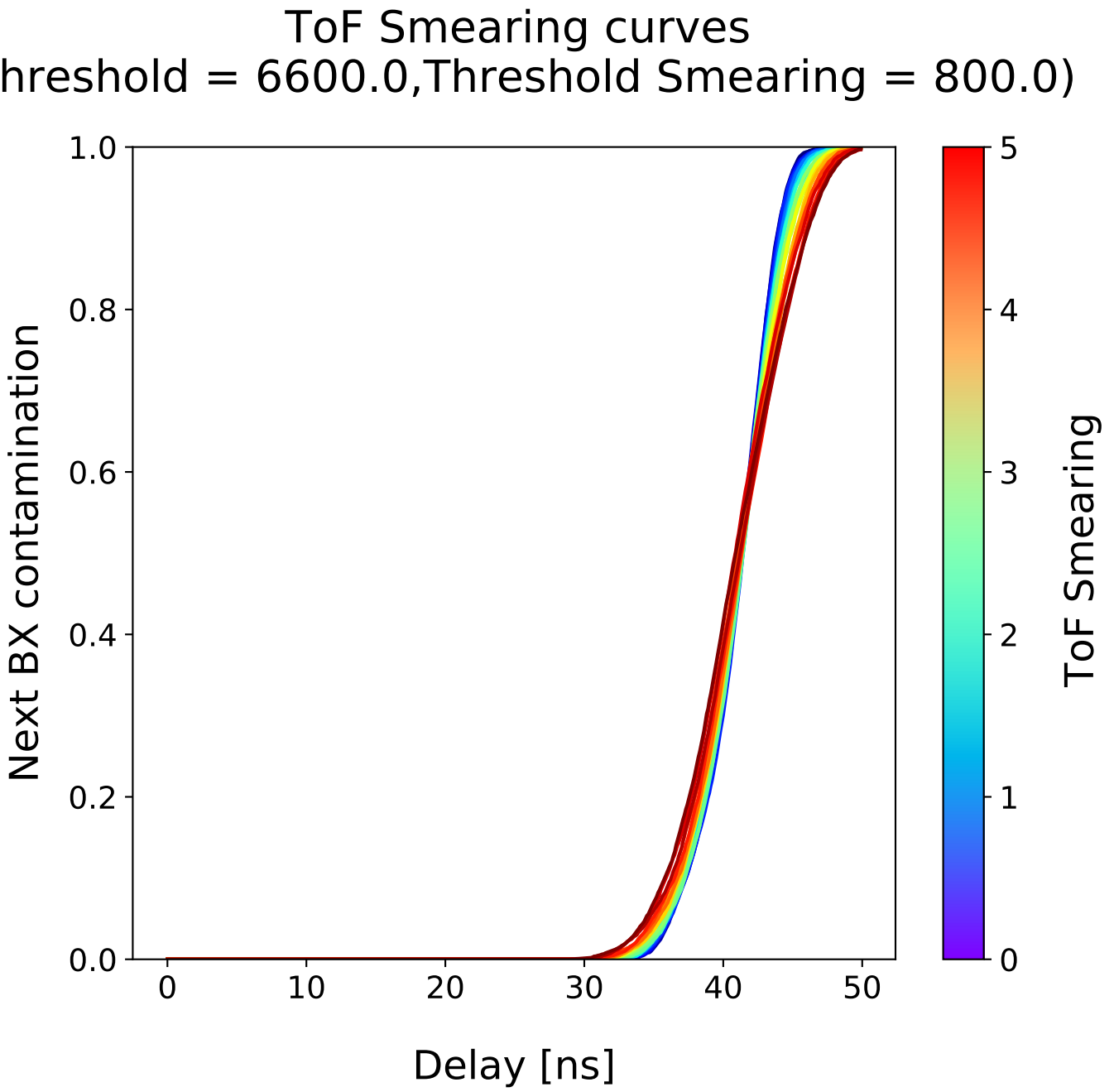

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

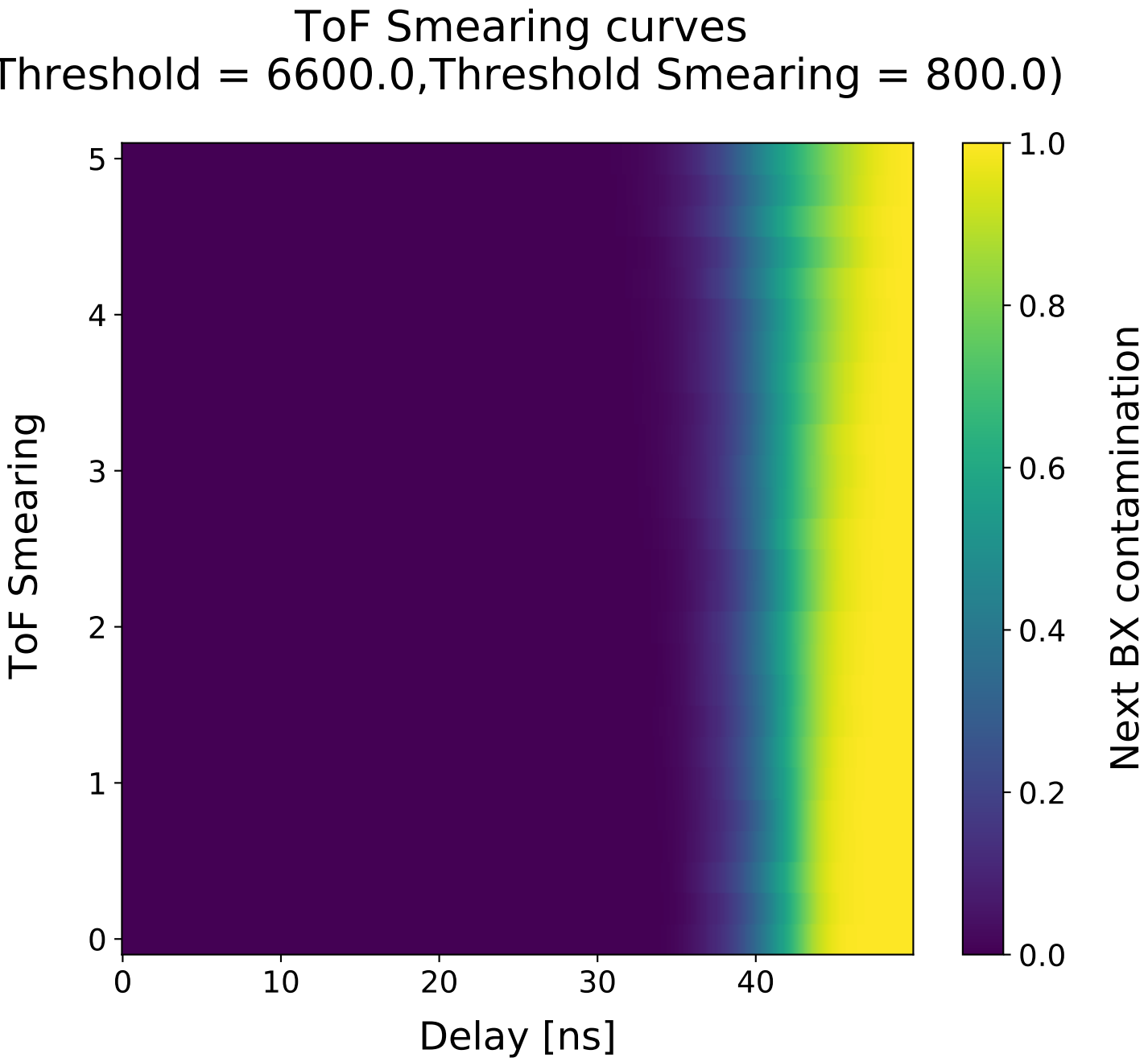

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

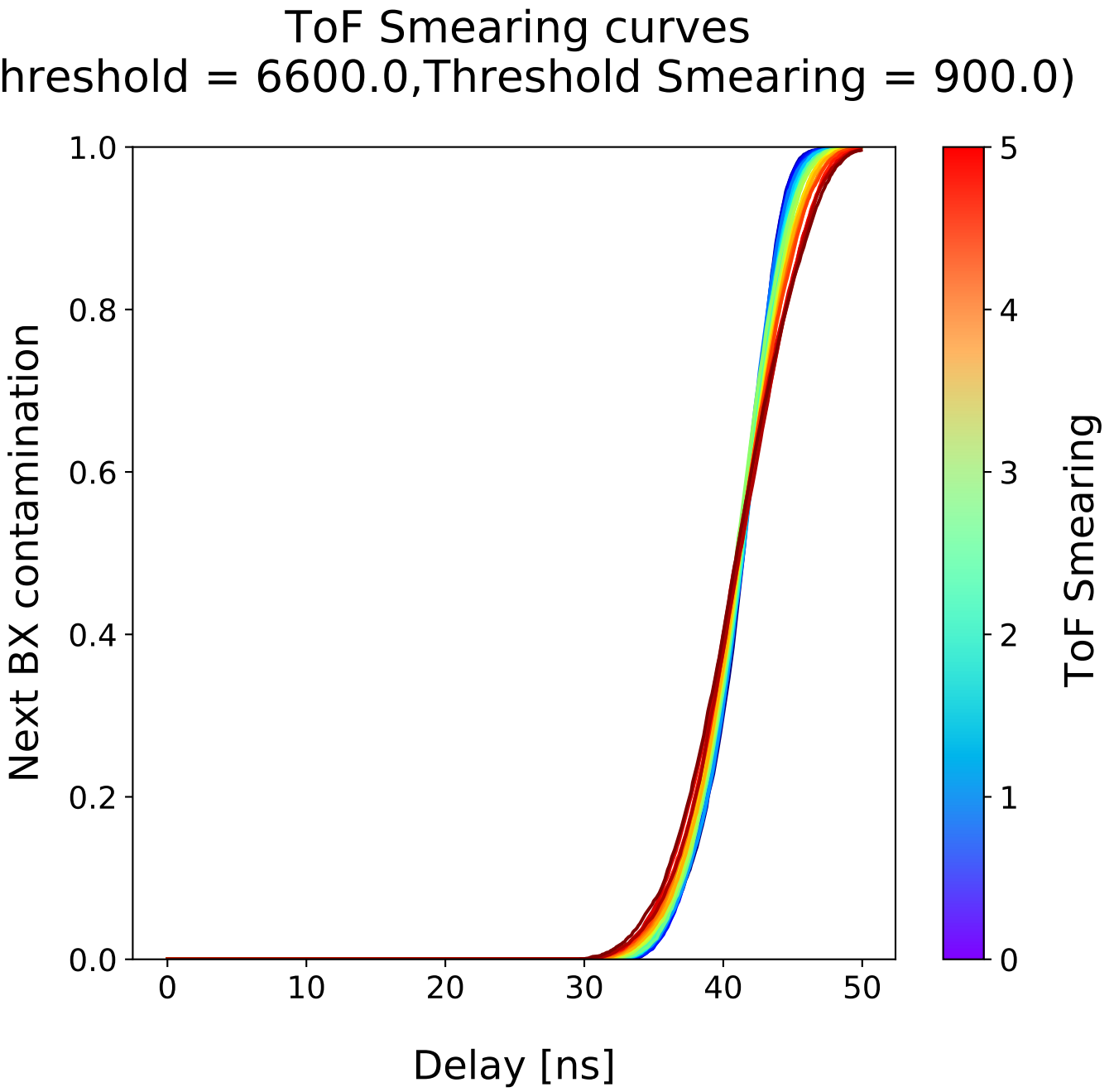

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

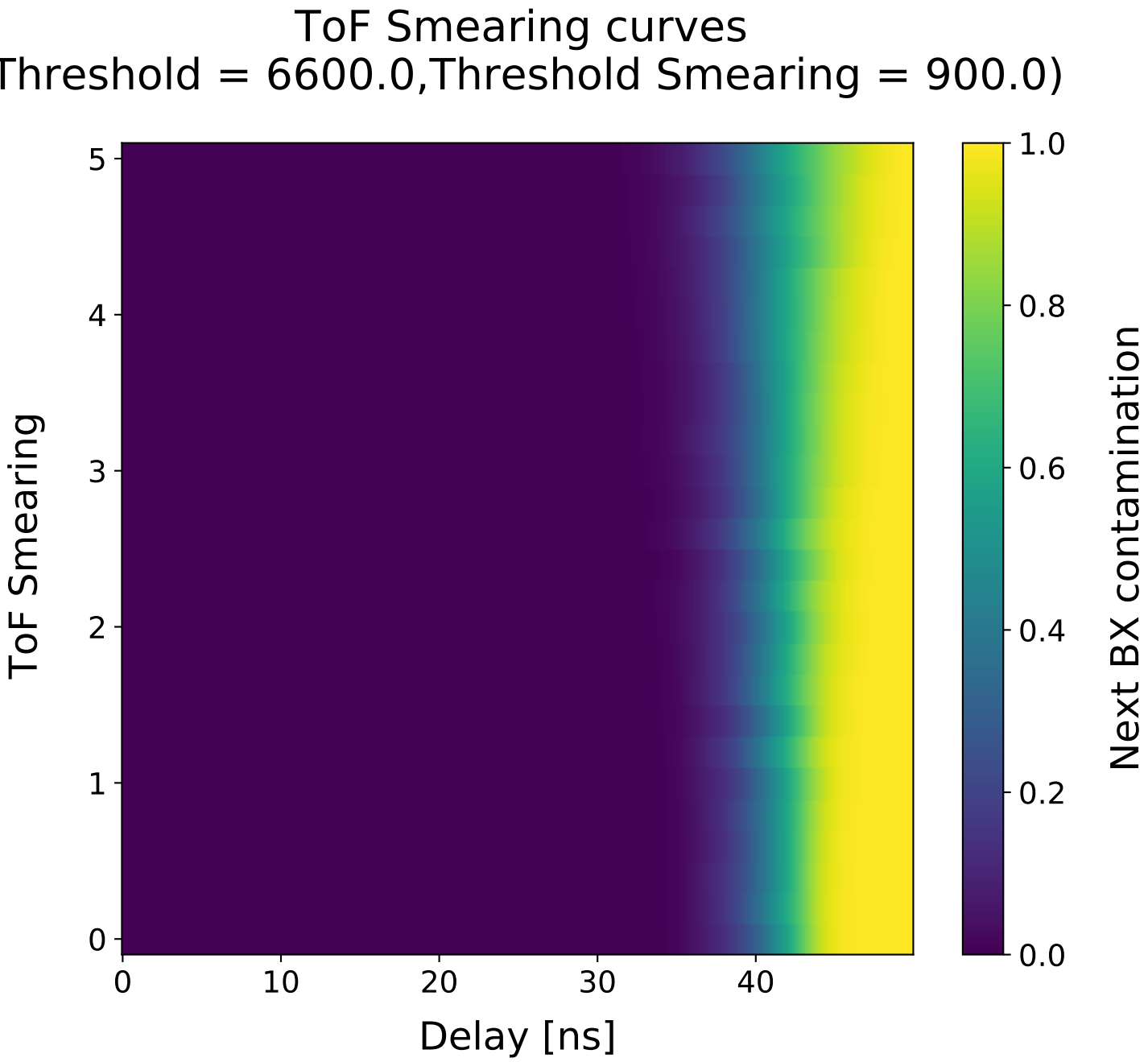

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

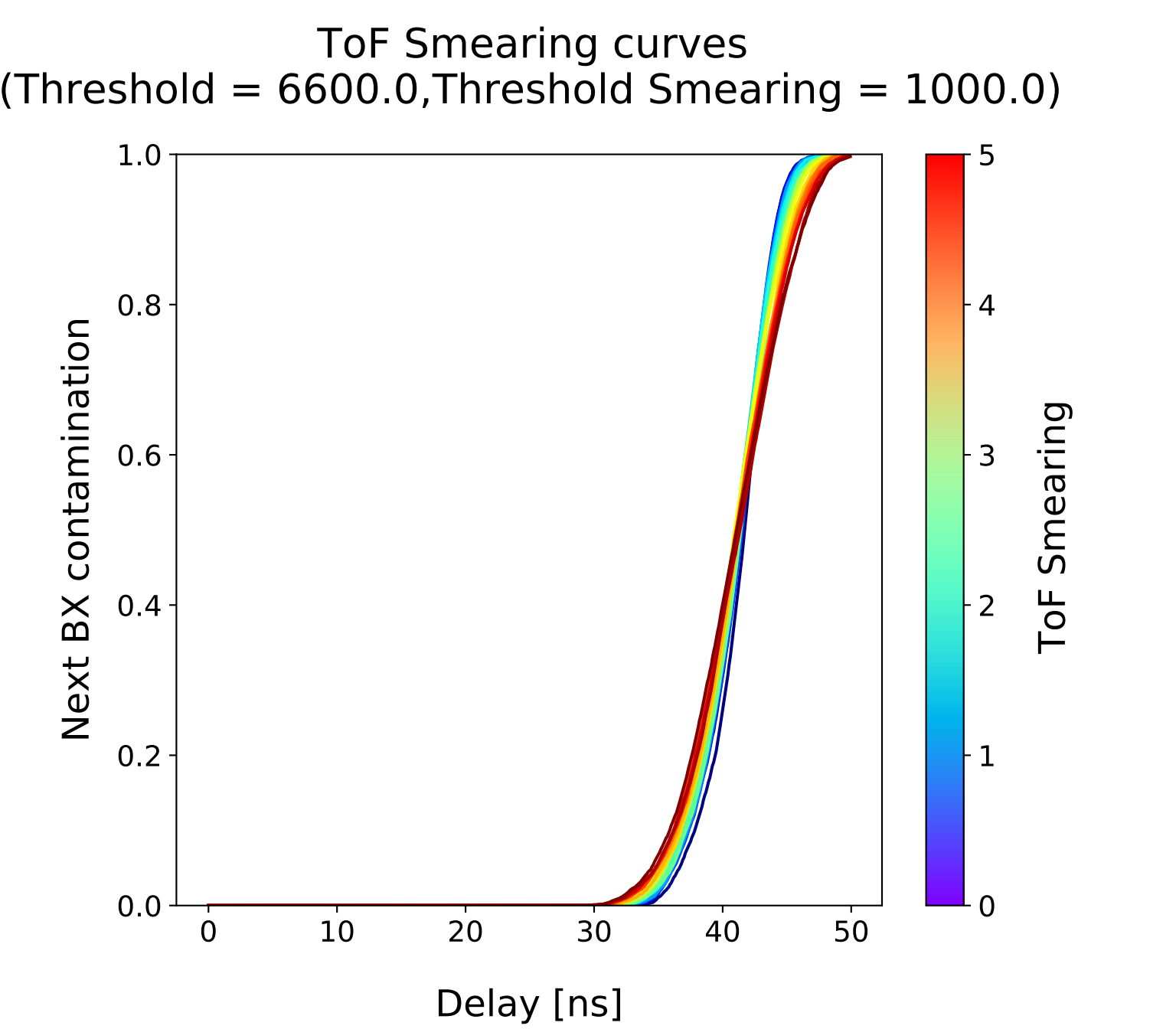

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

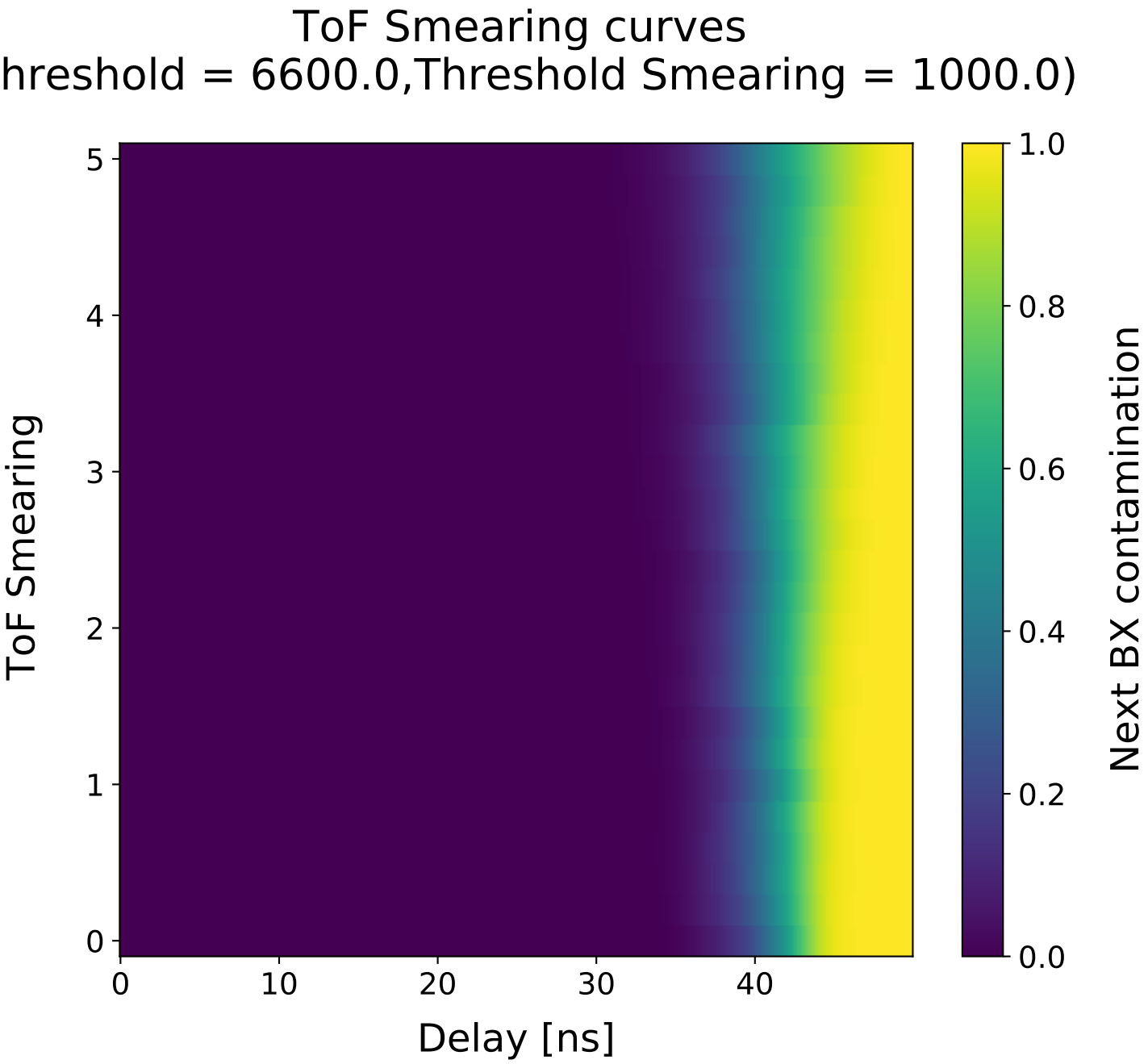

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

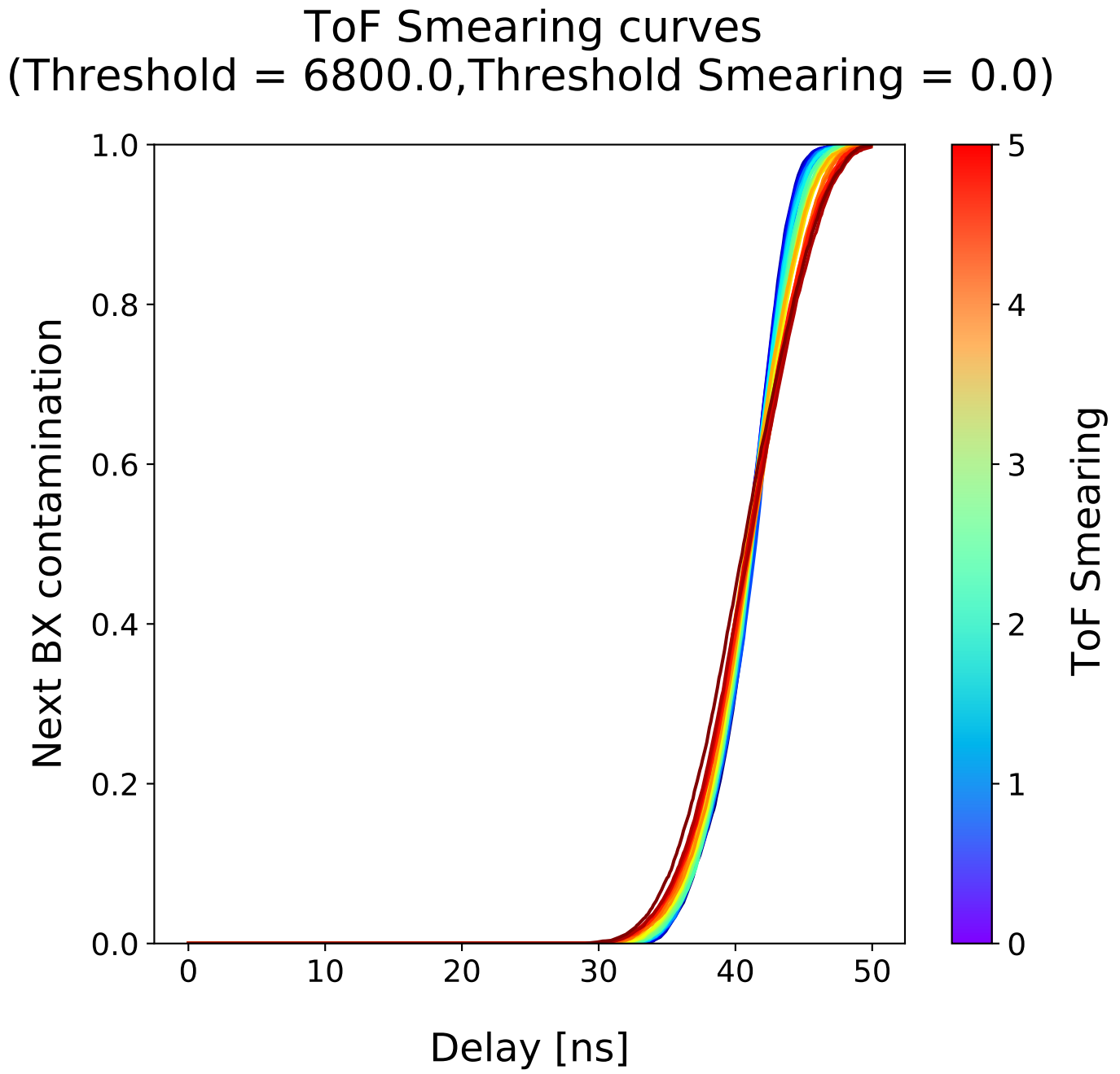

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

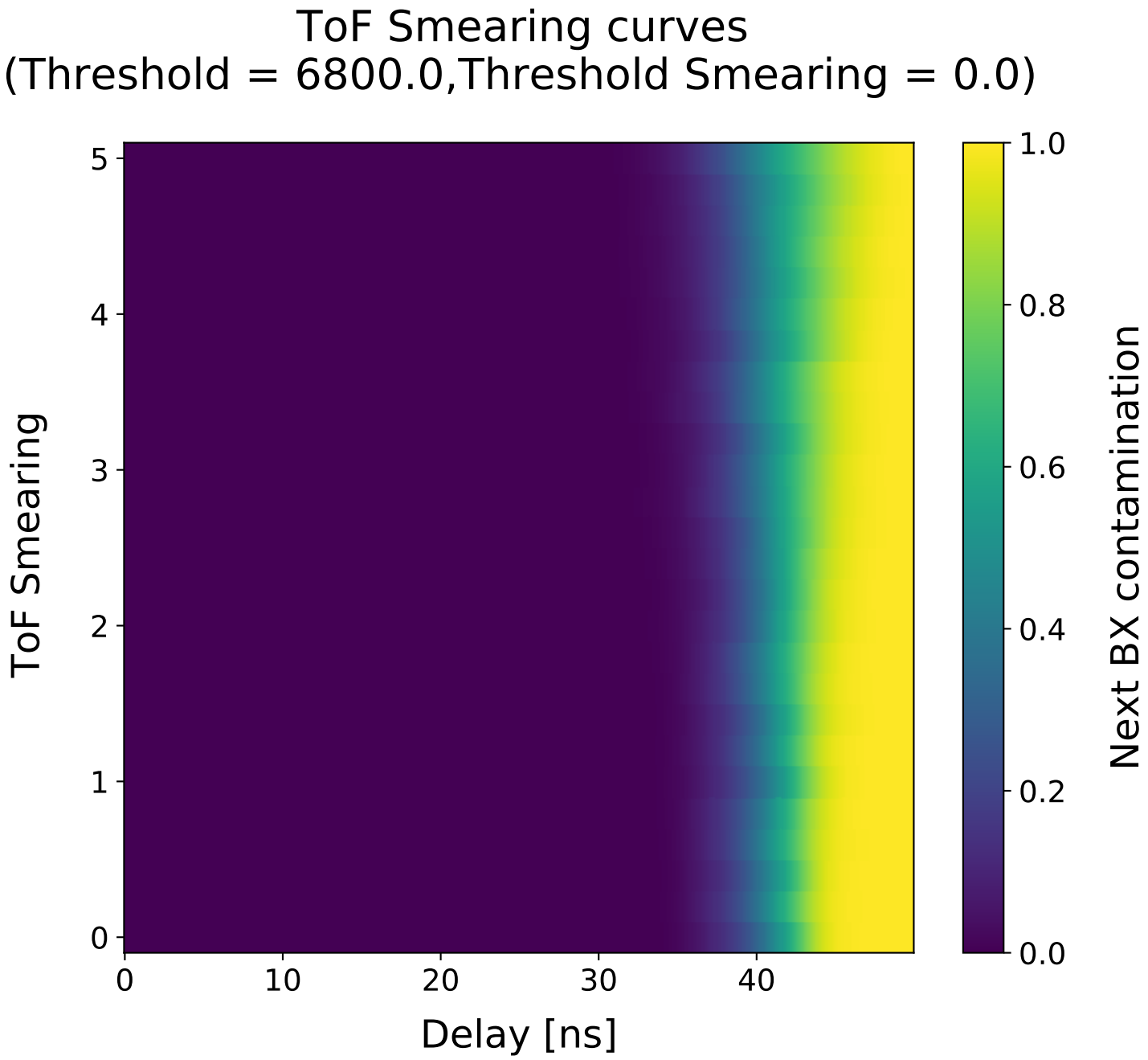

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

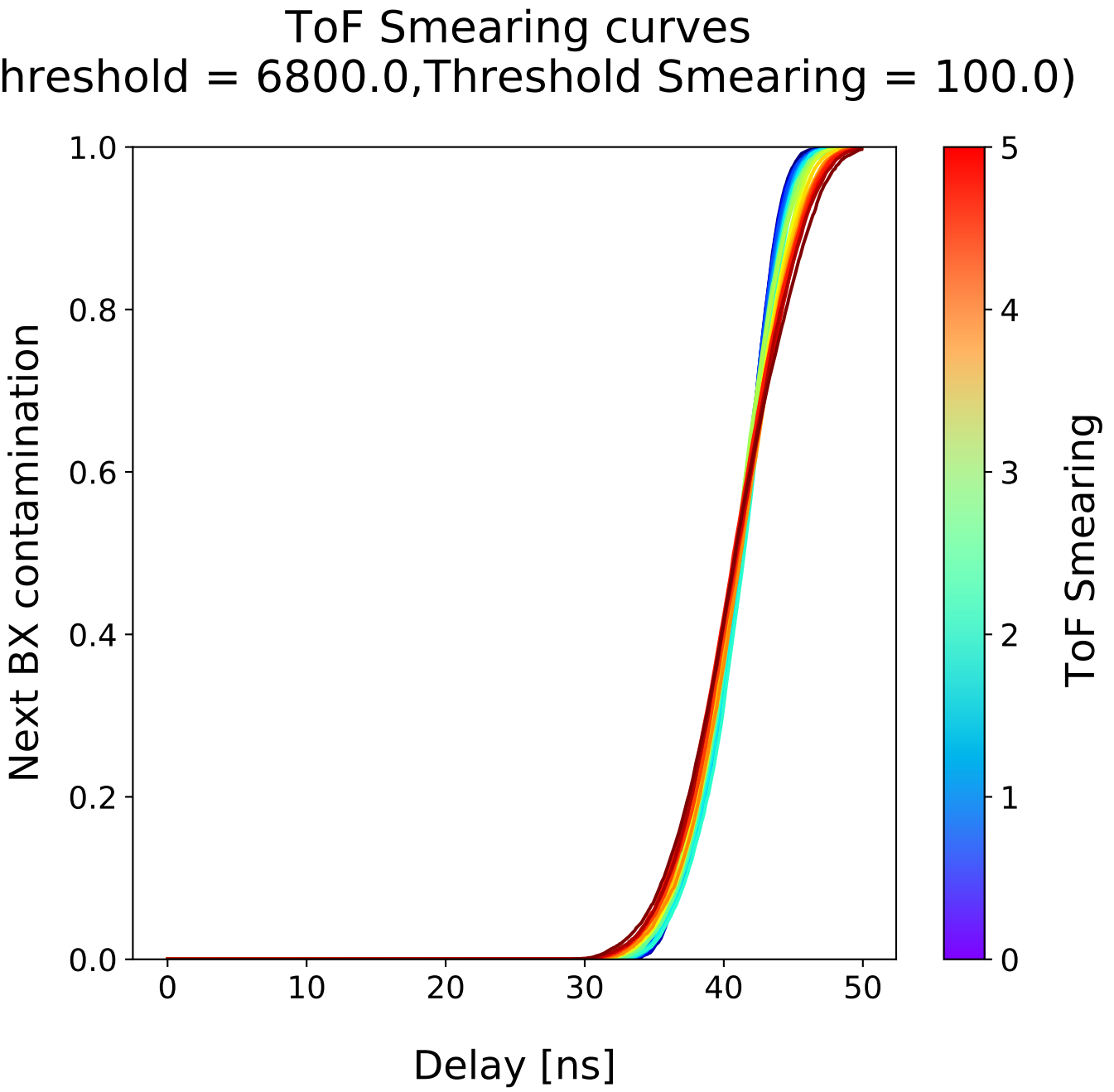

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

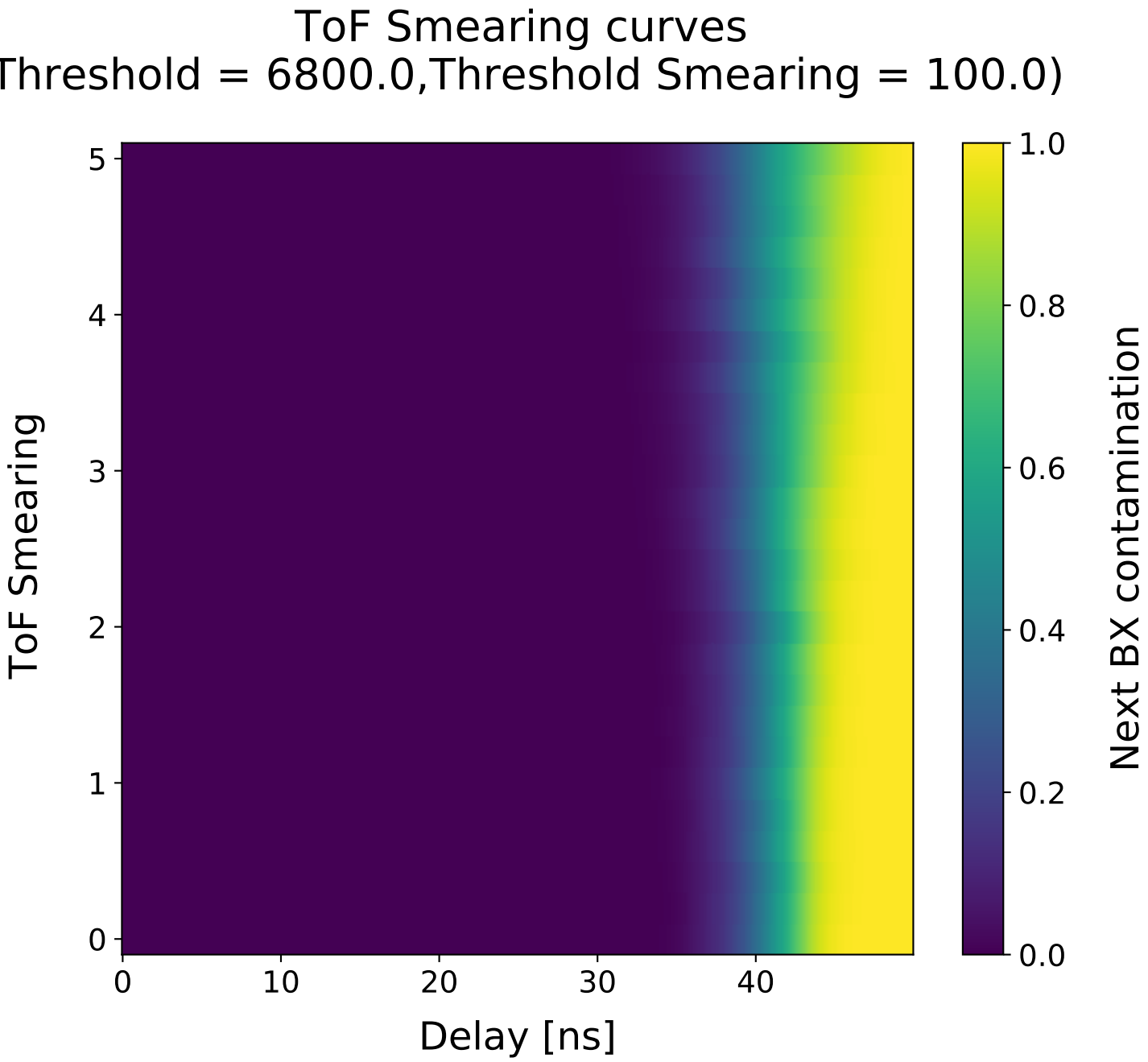

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
5
4
3
2
1
0

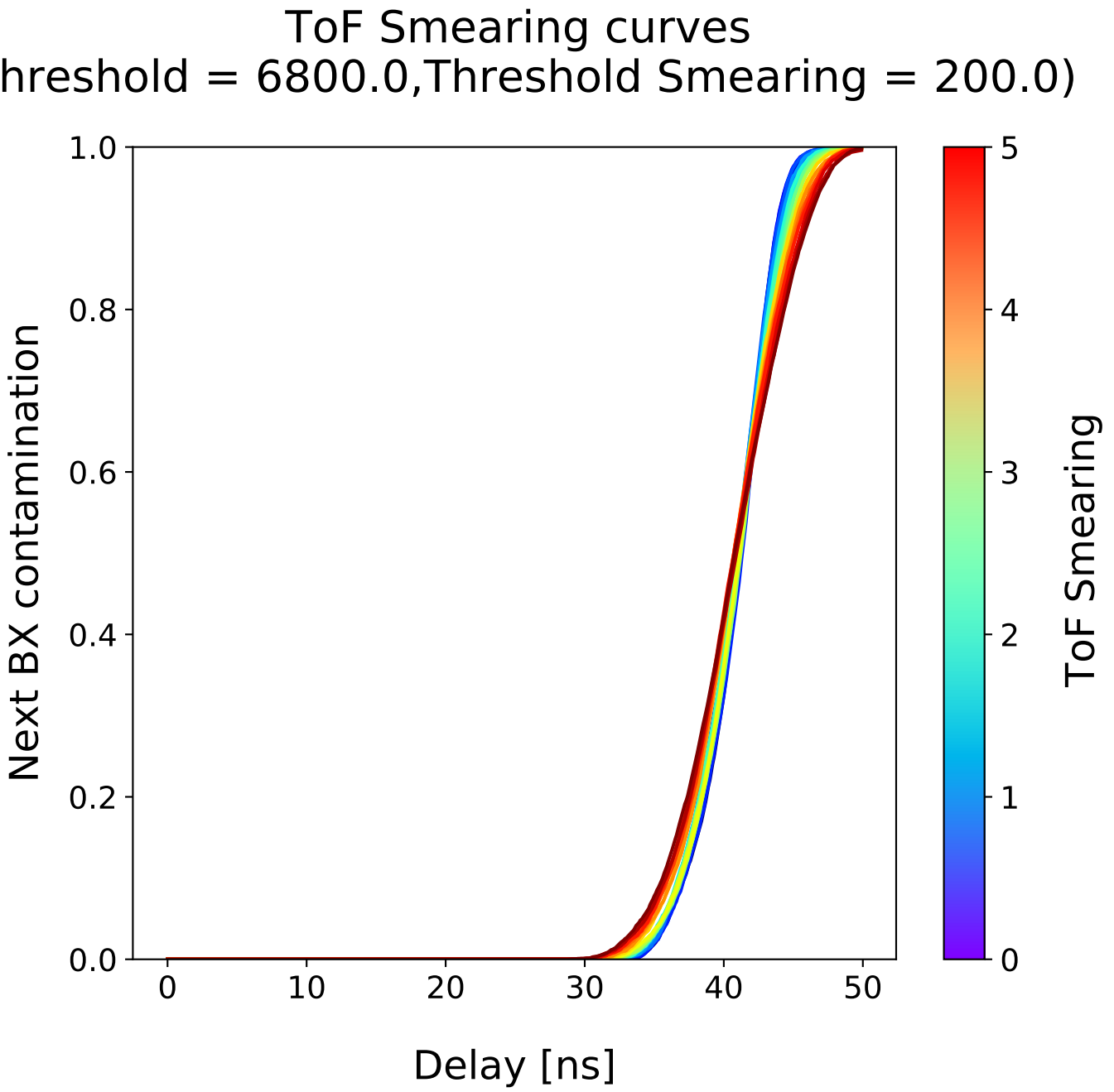

ToF Smearing curves
(Threshold = 6600.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

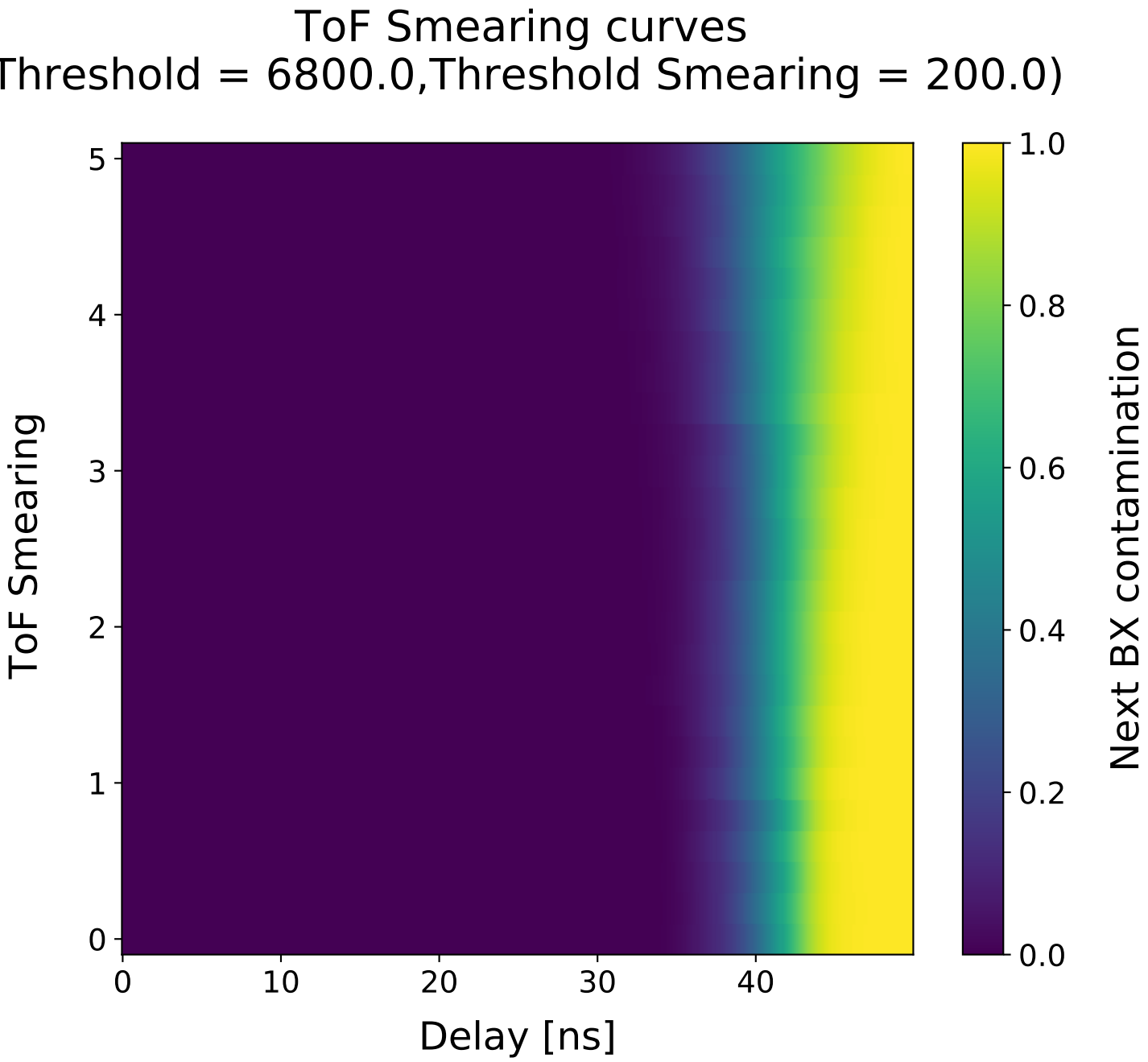

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

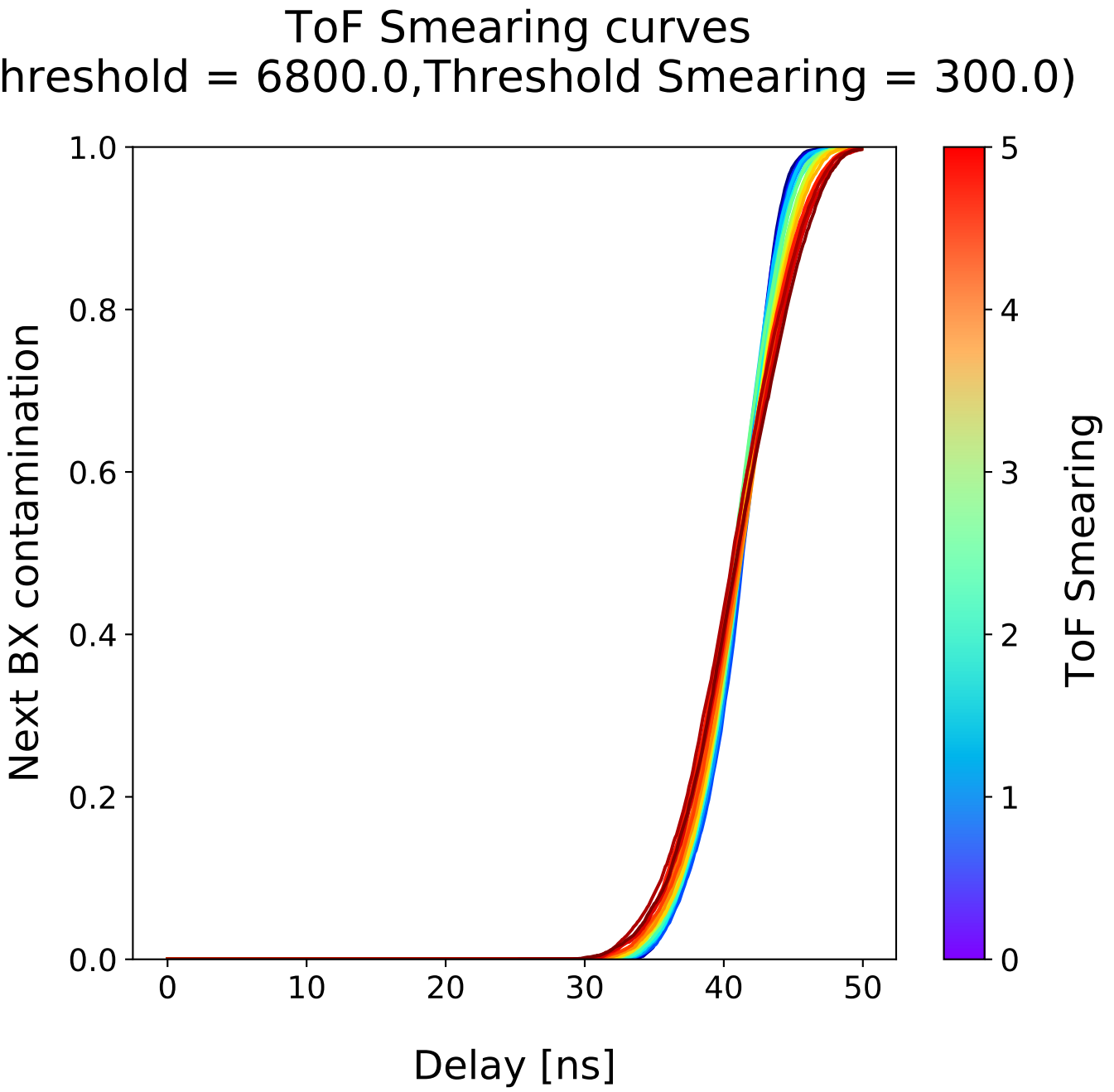

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

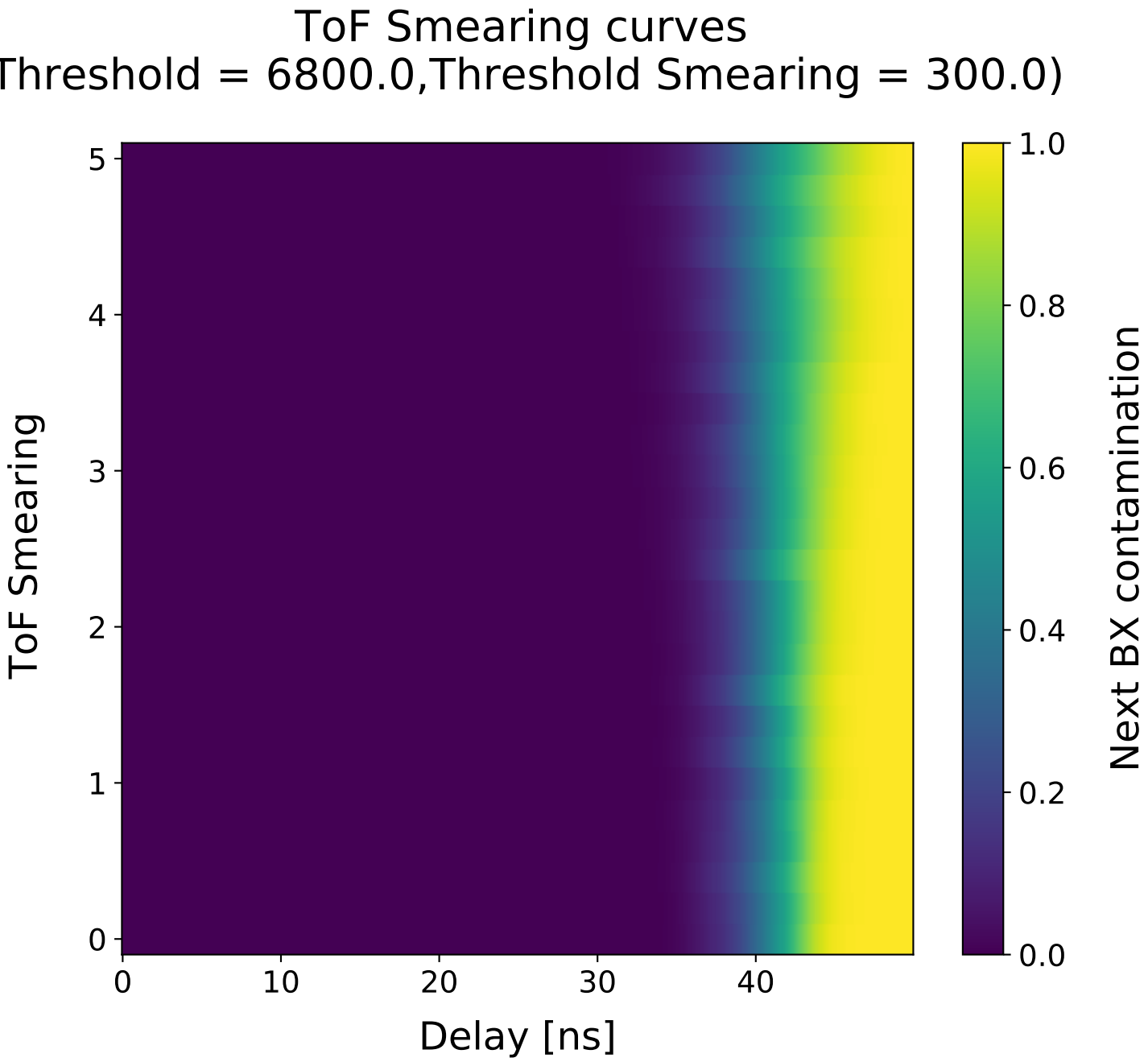

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

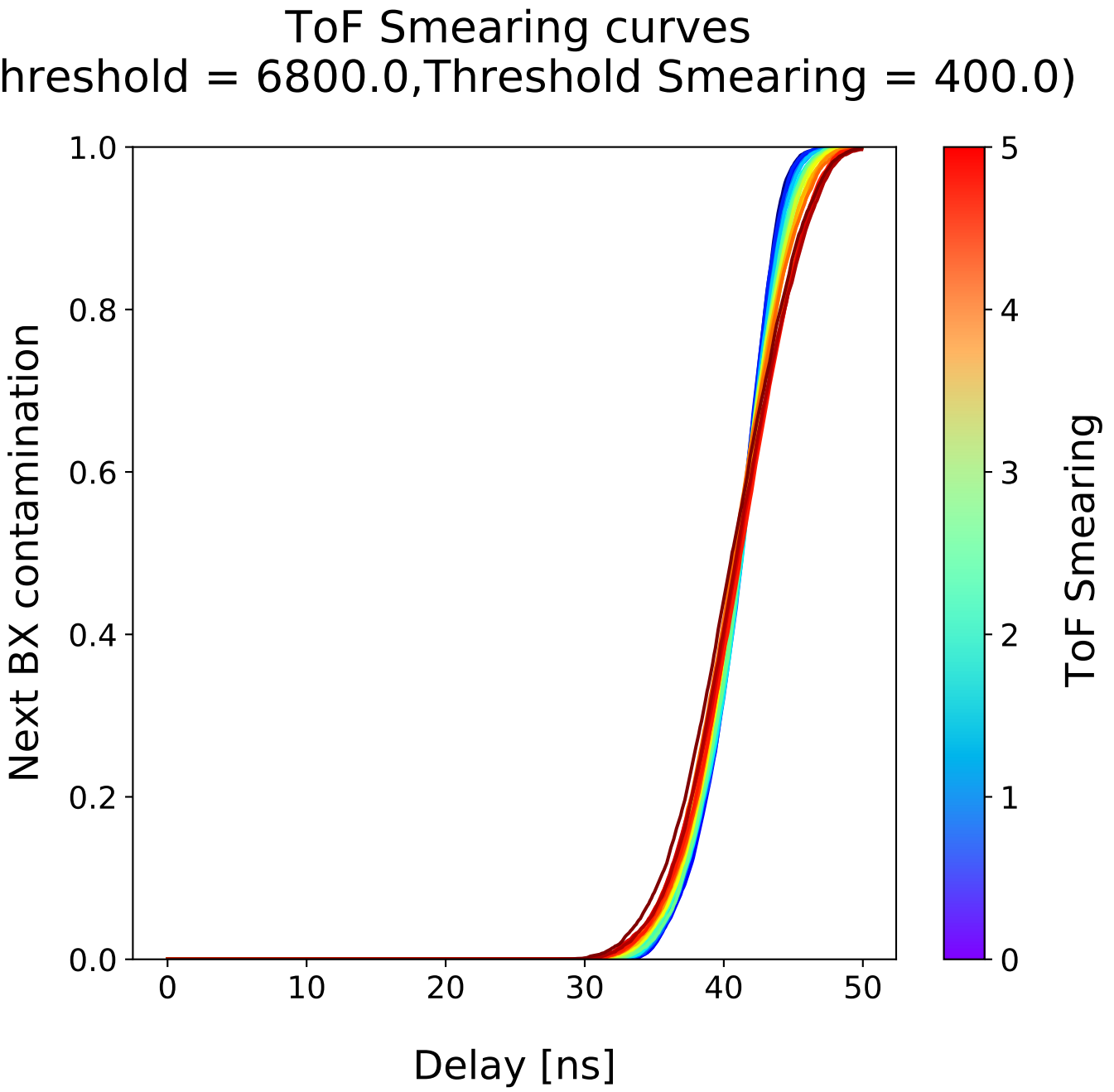

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

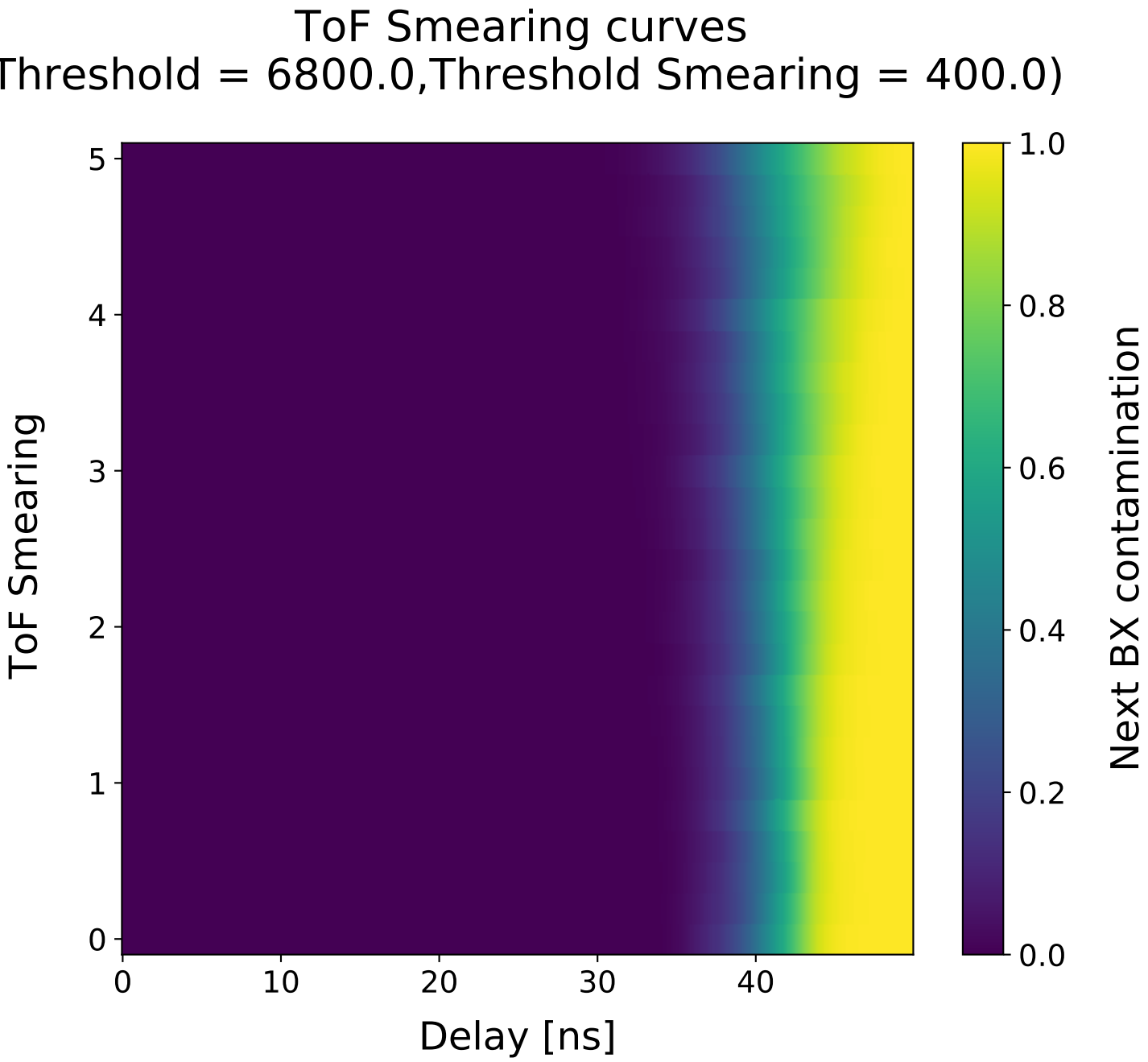

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

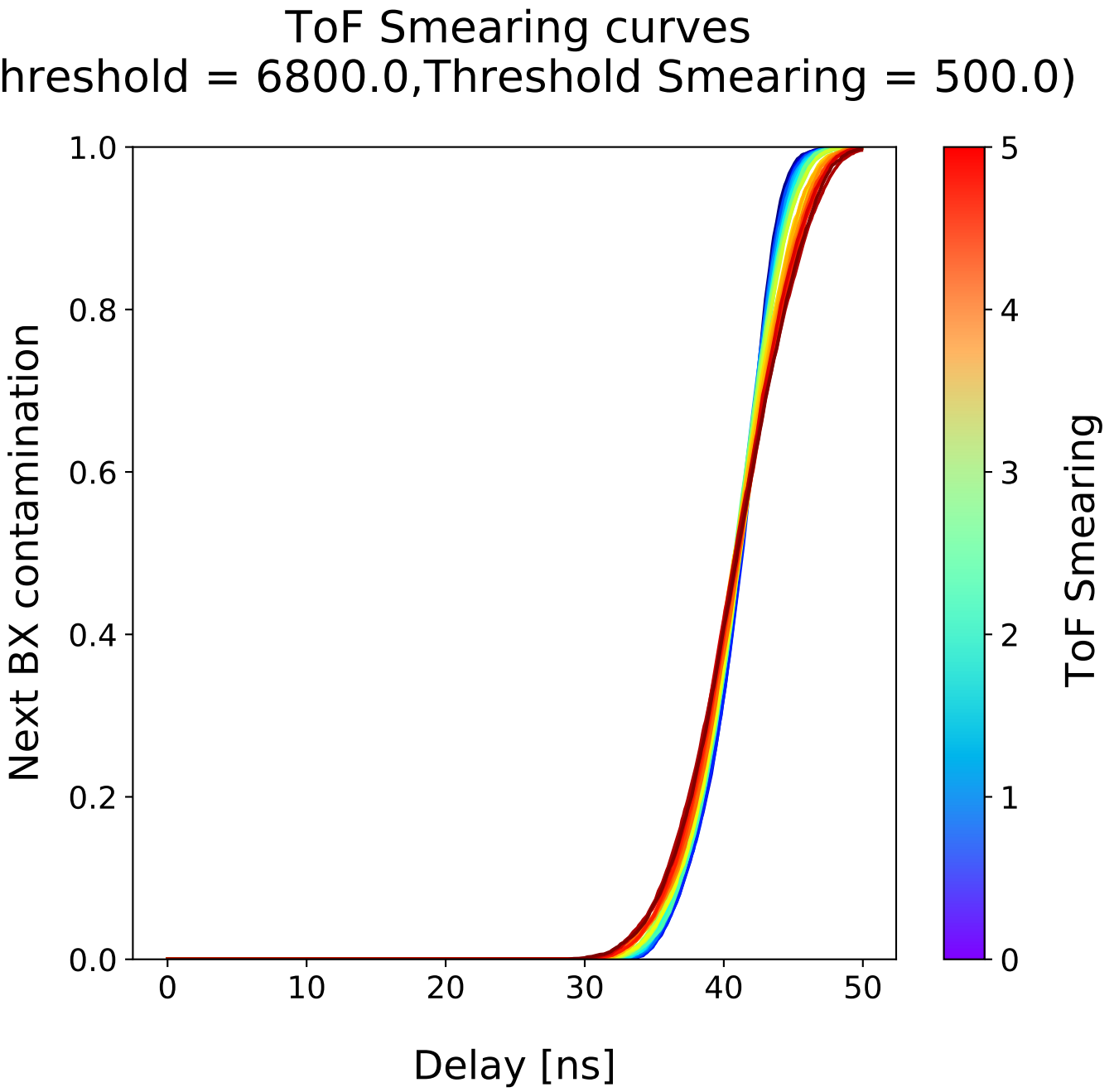

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

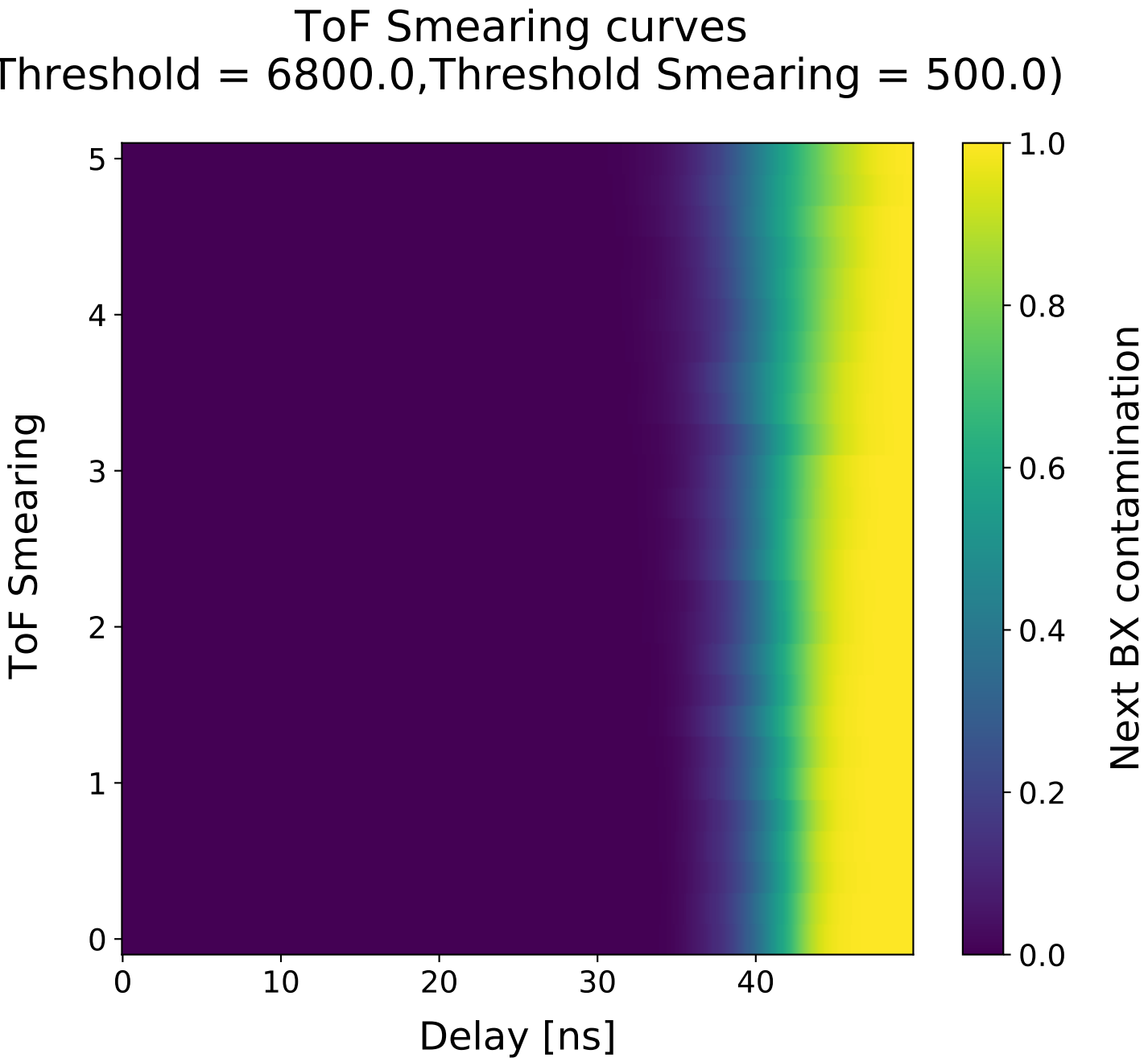

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

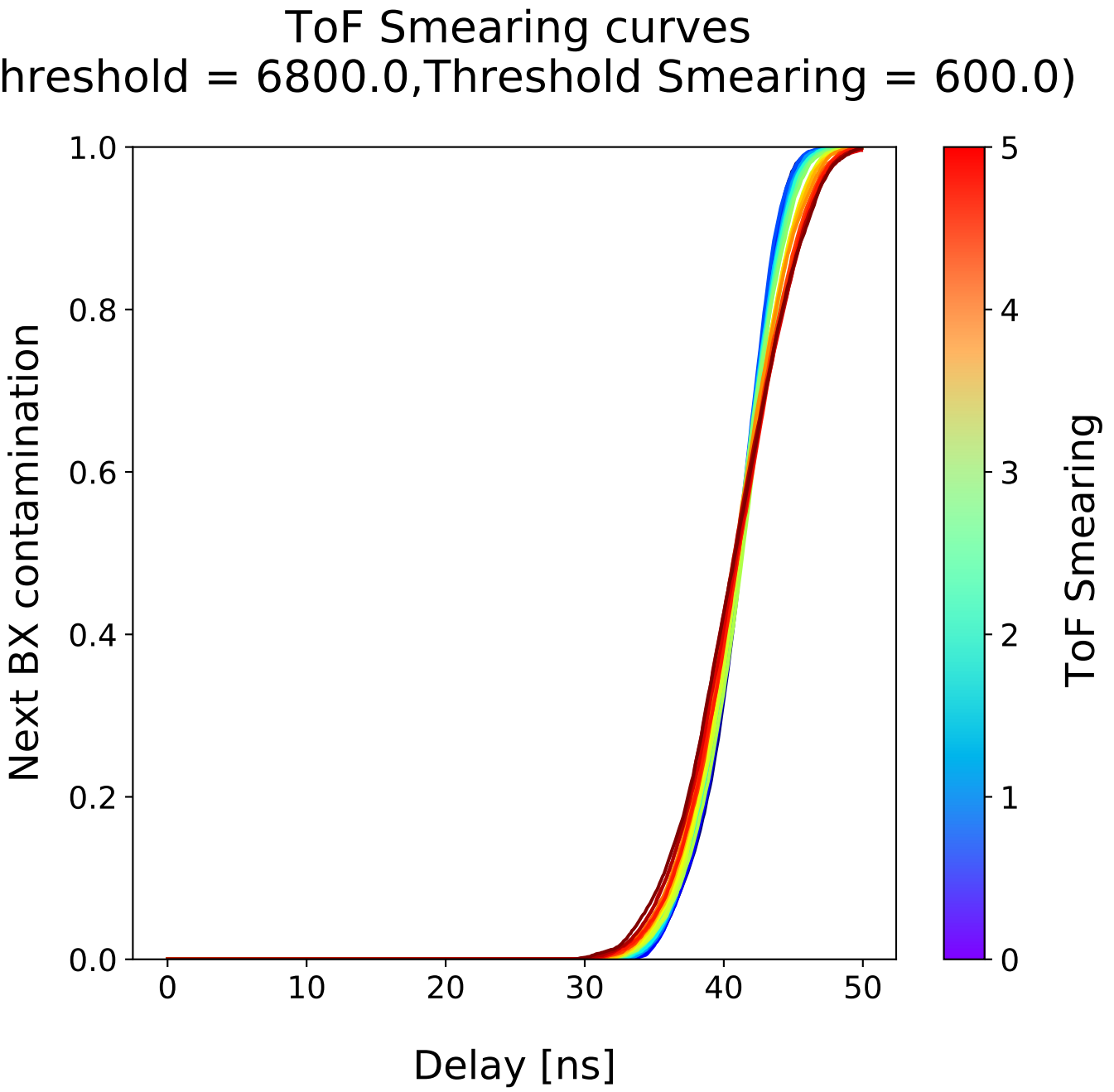

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

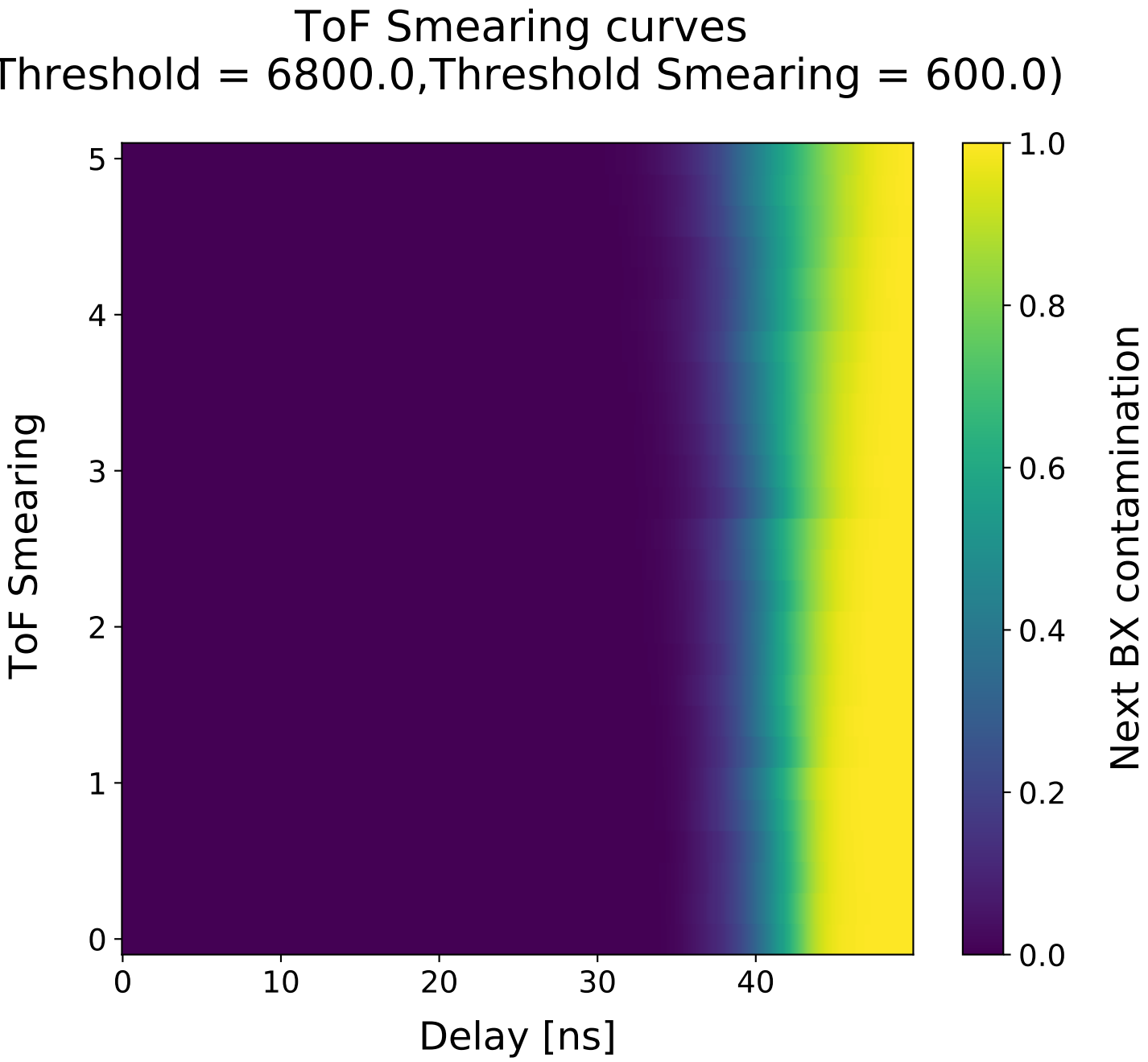

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

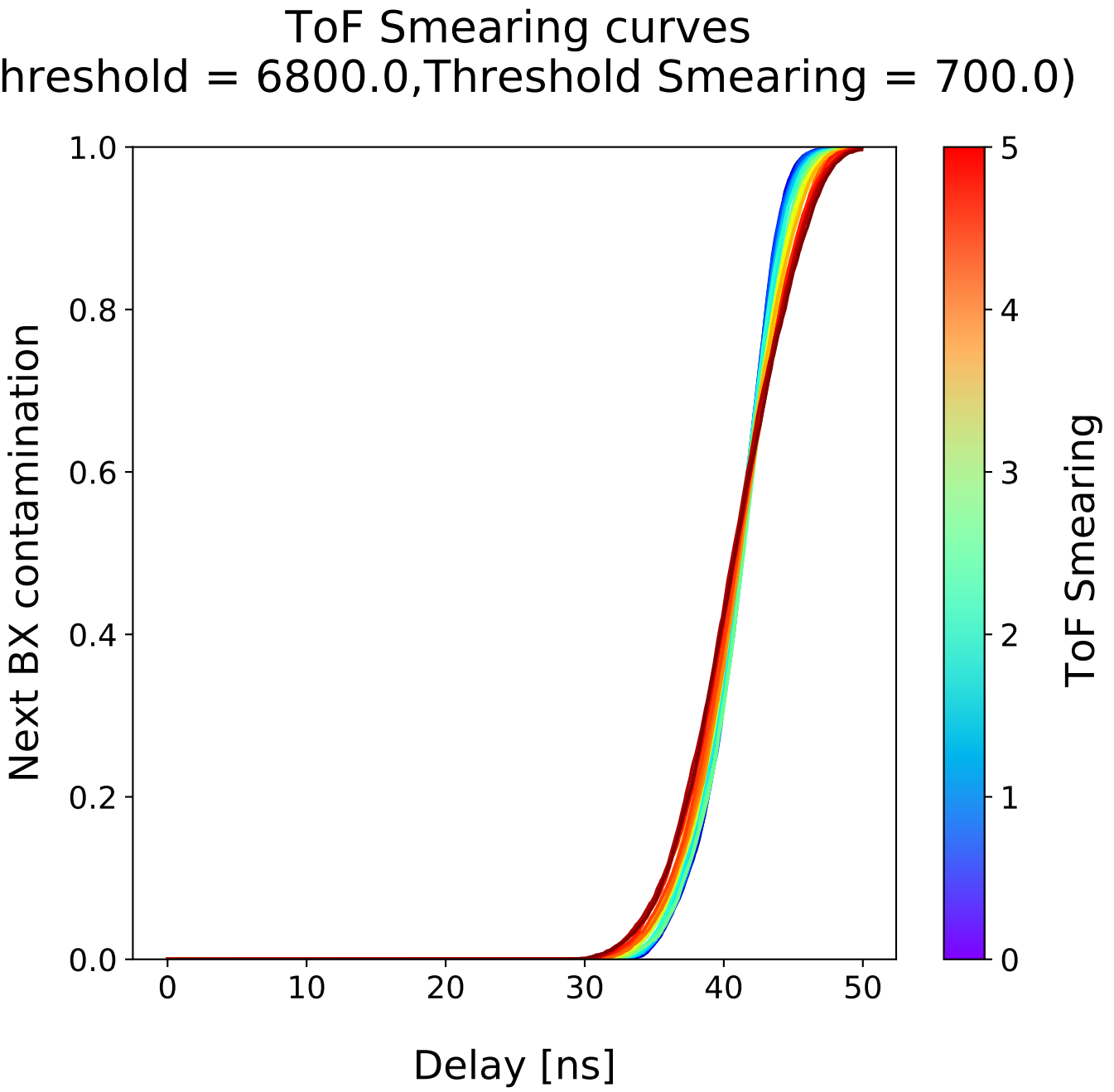

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

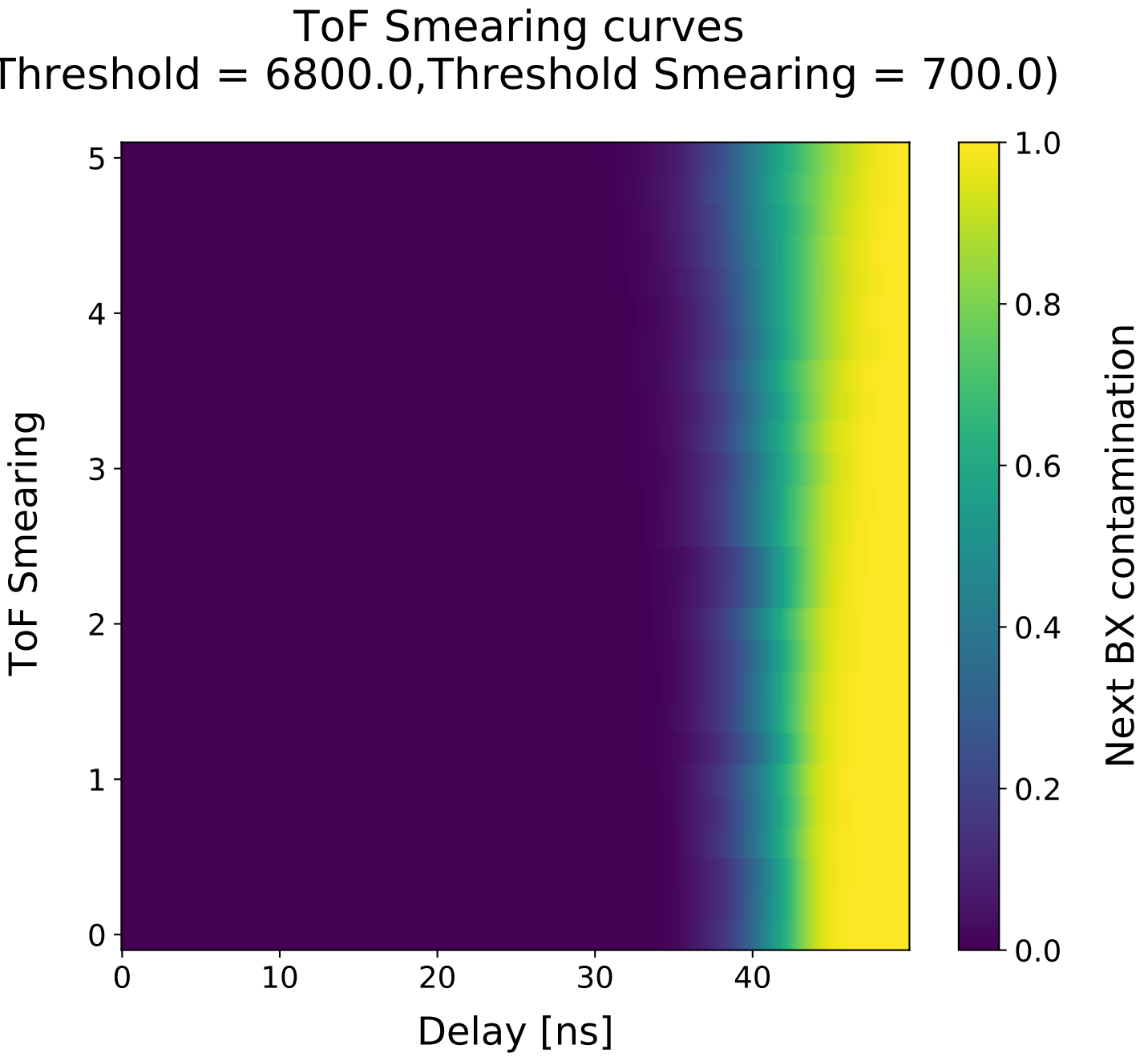

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

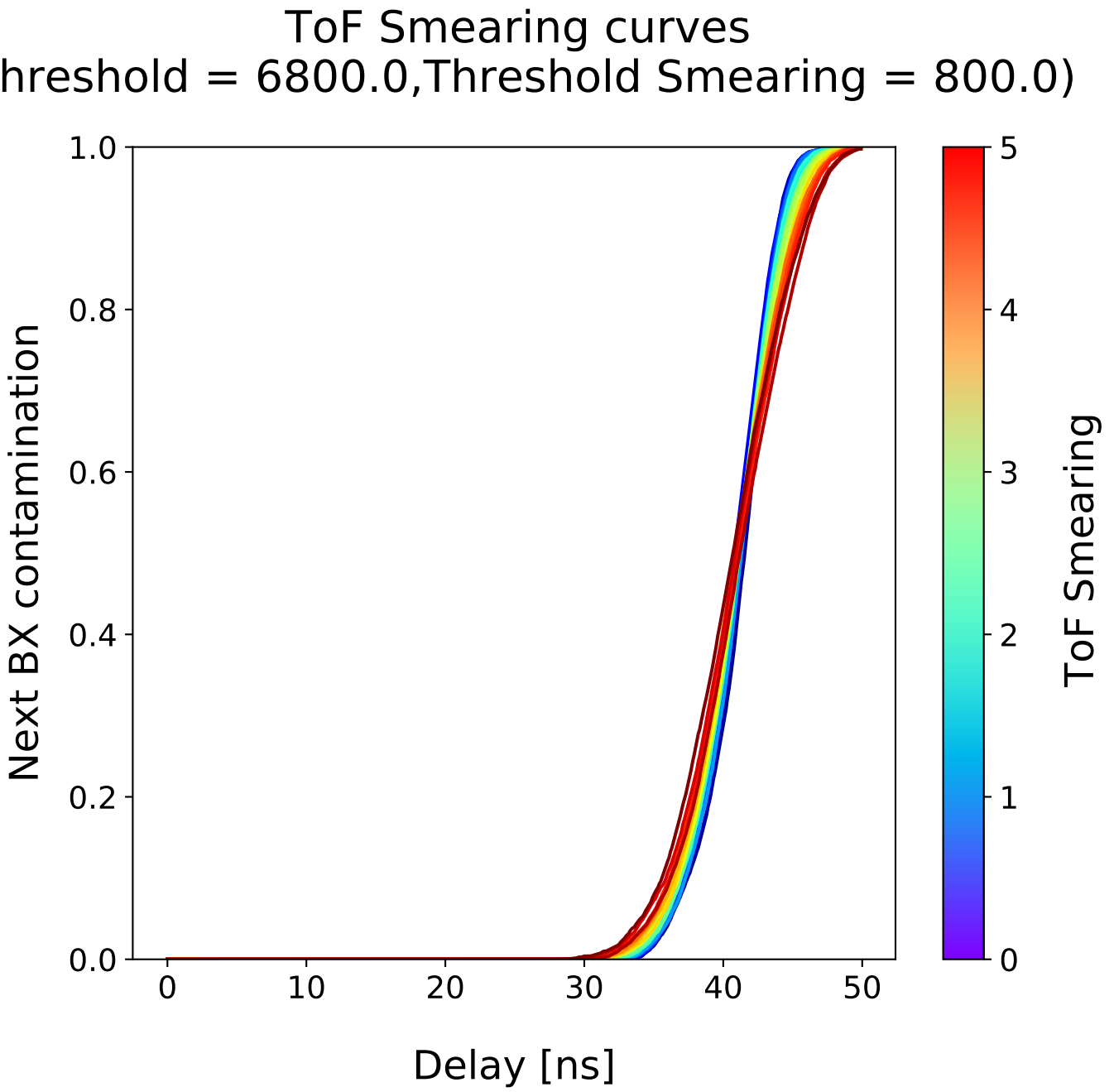

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

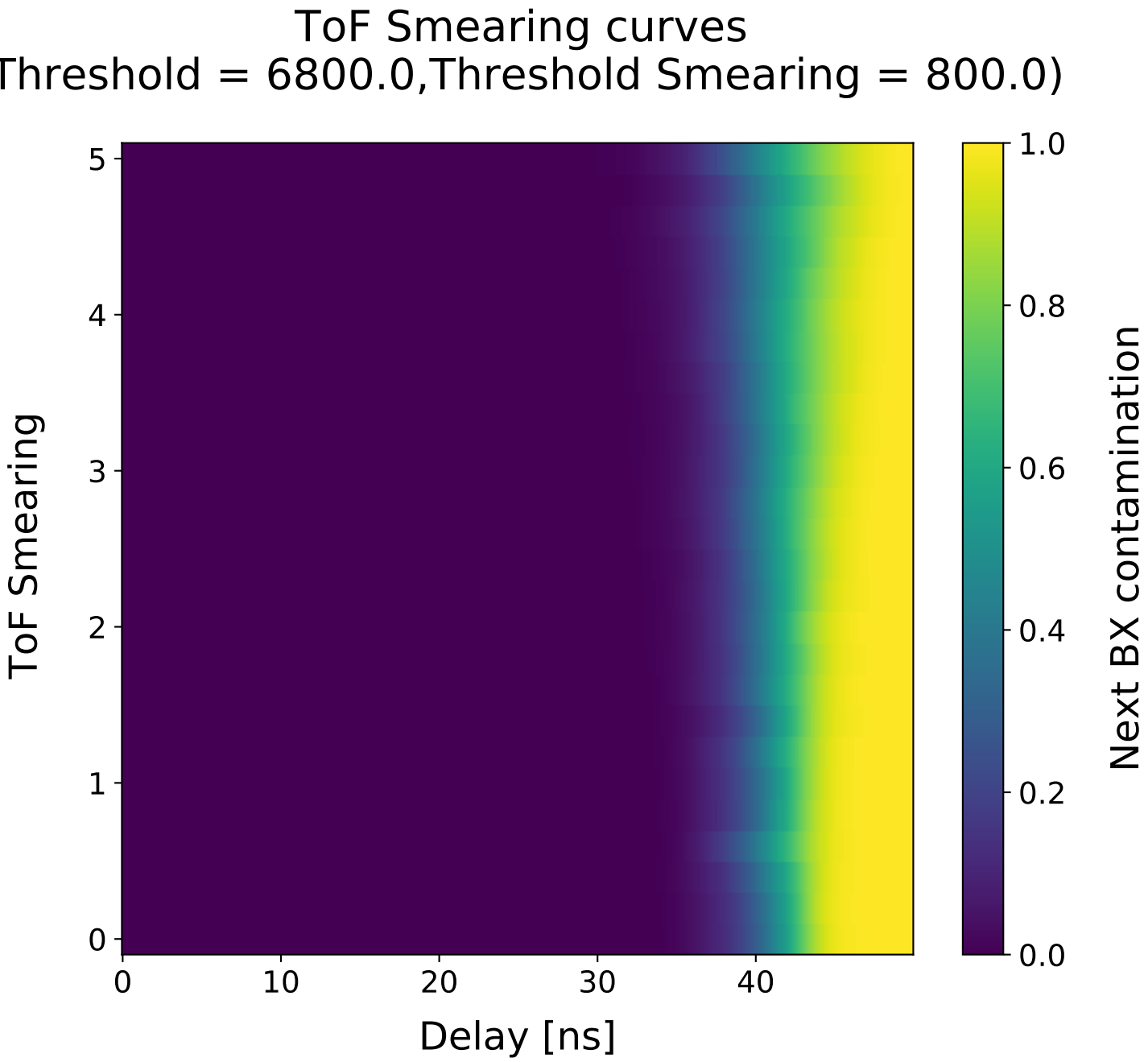

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

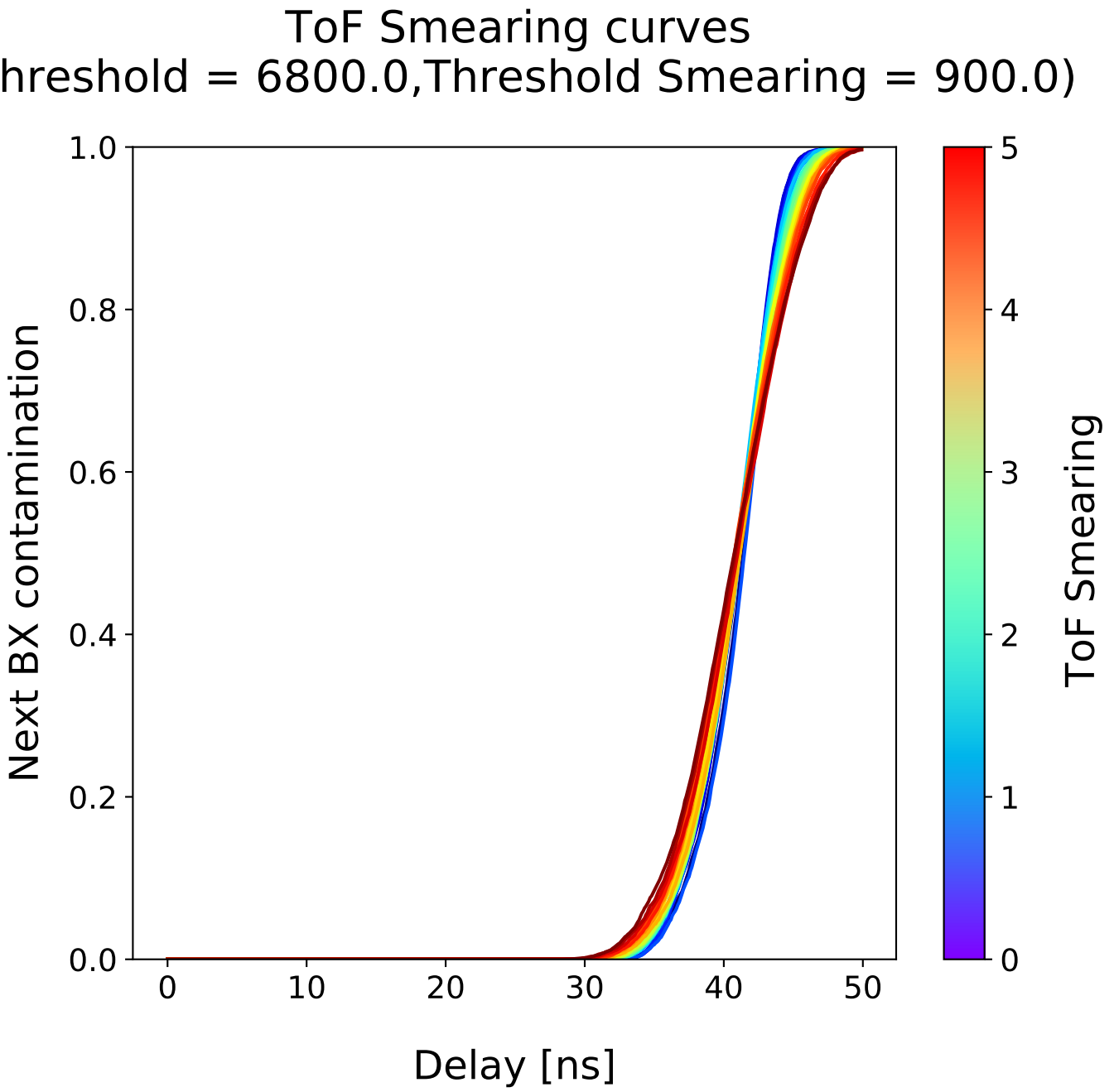

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

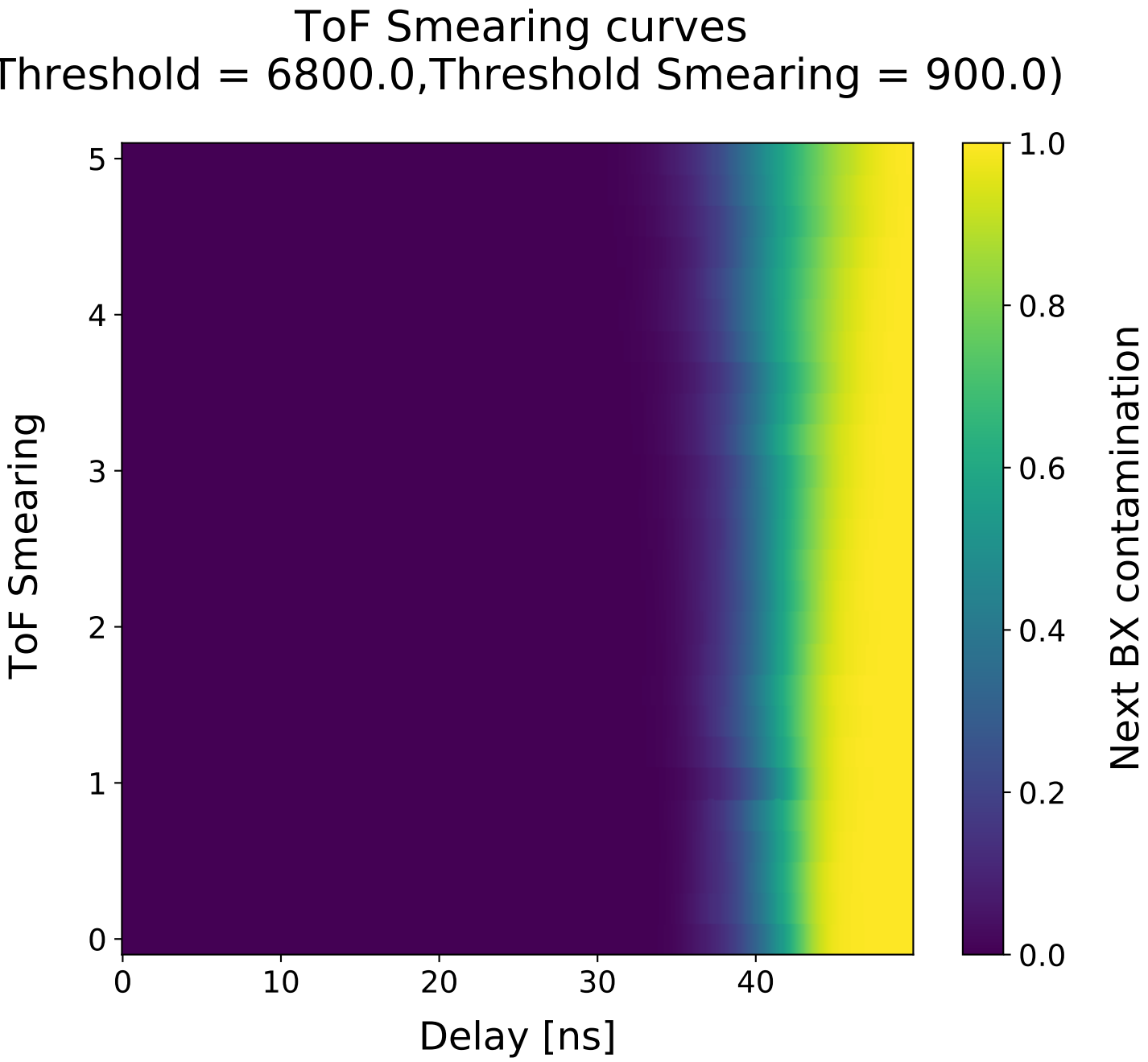

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

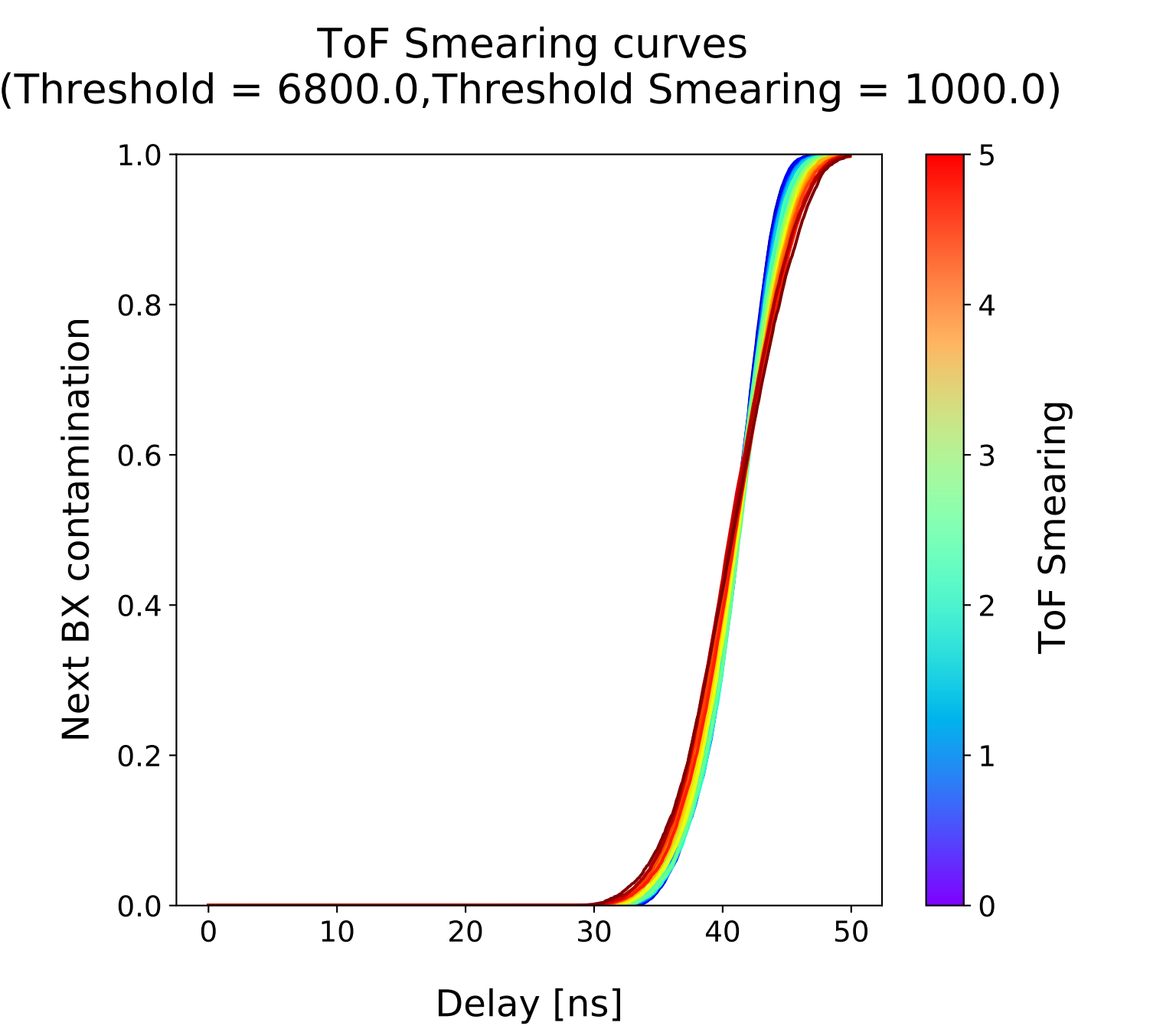

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

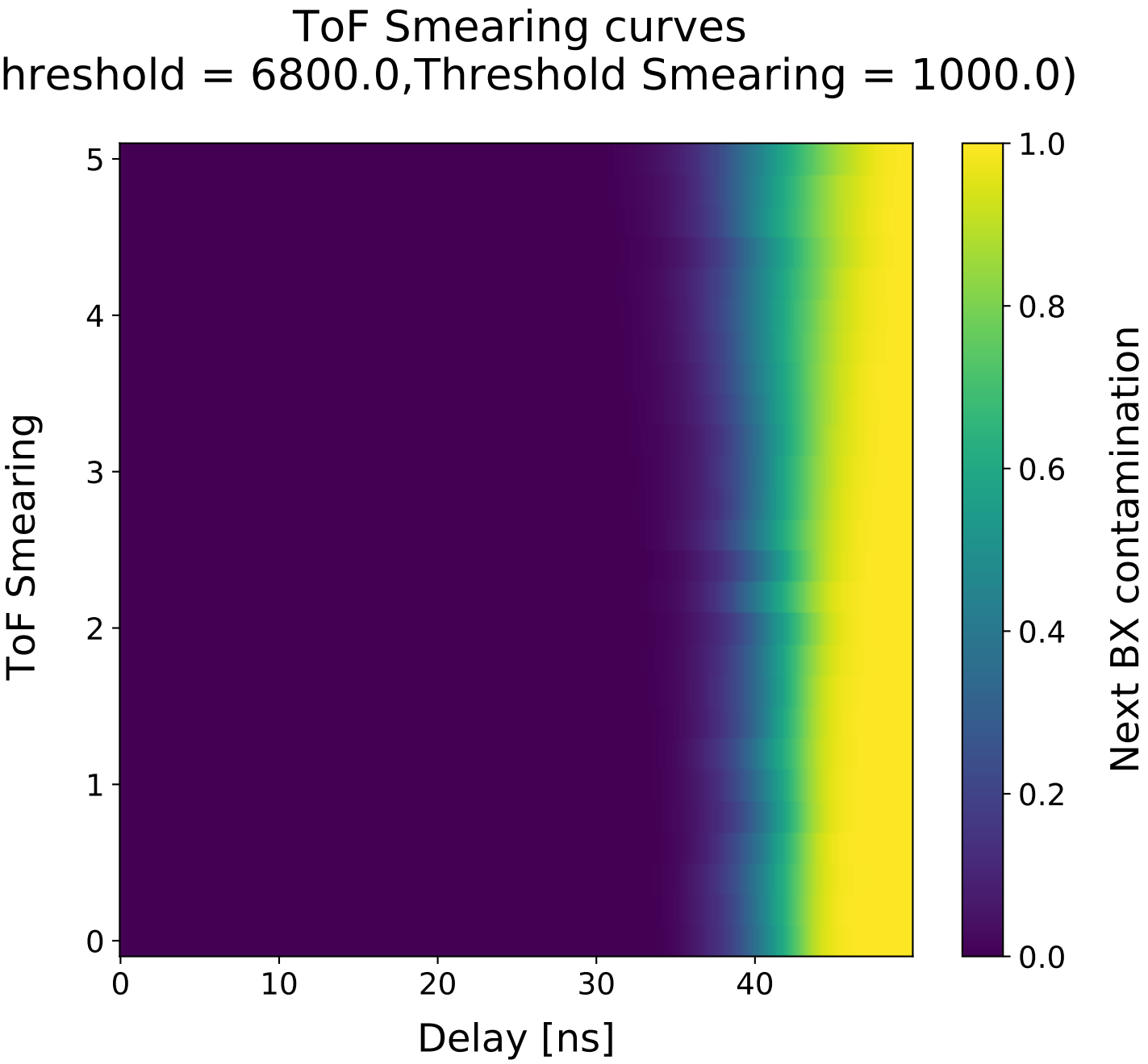

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

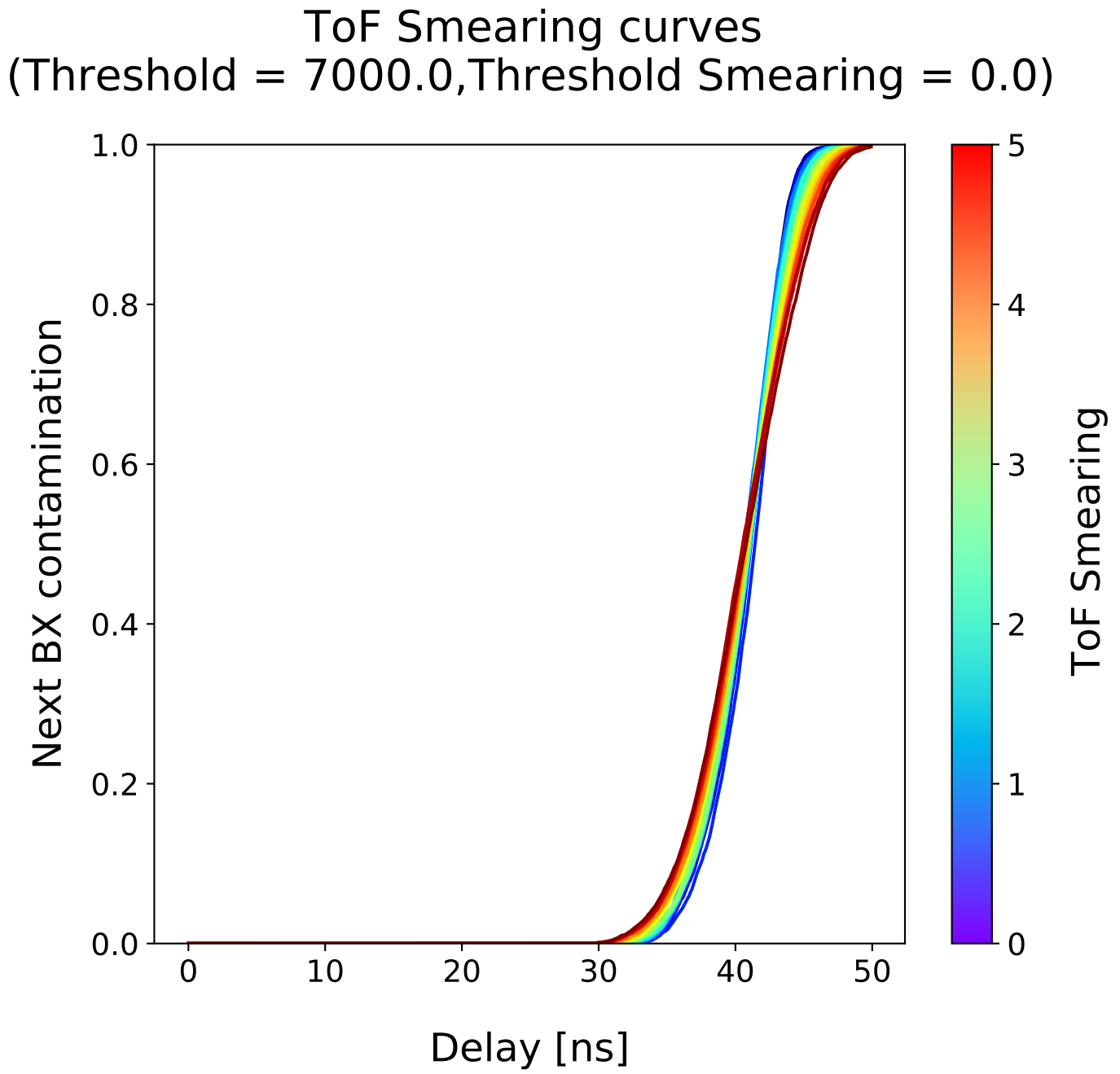

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

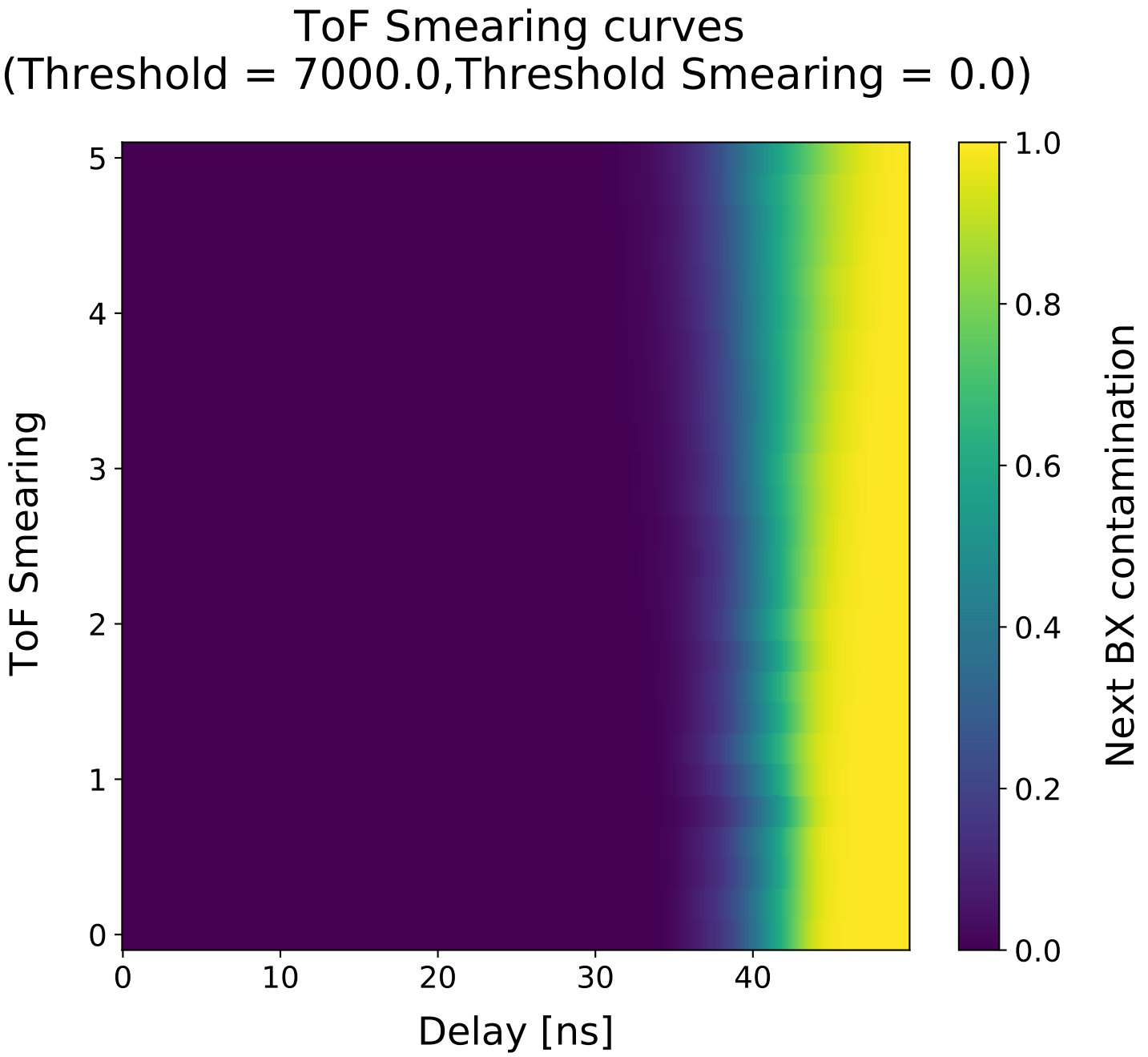

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

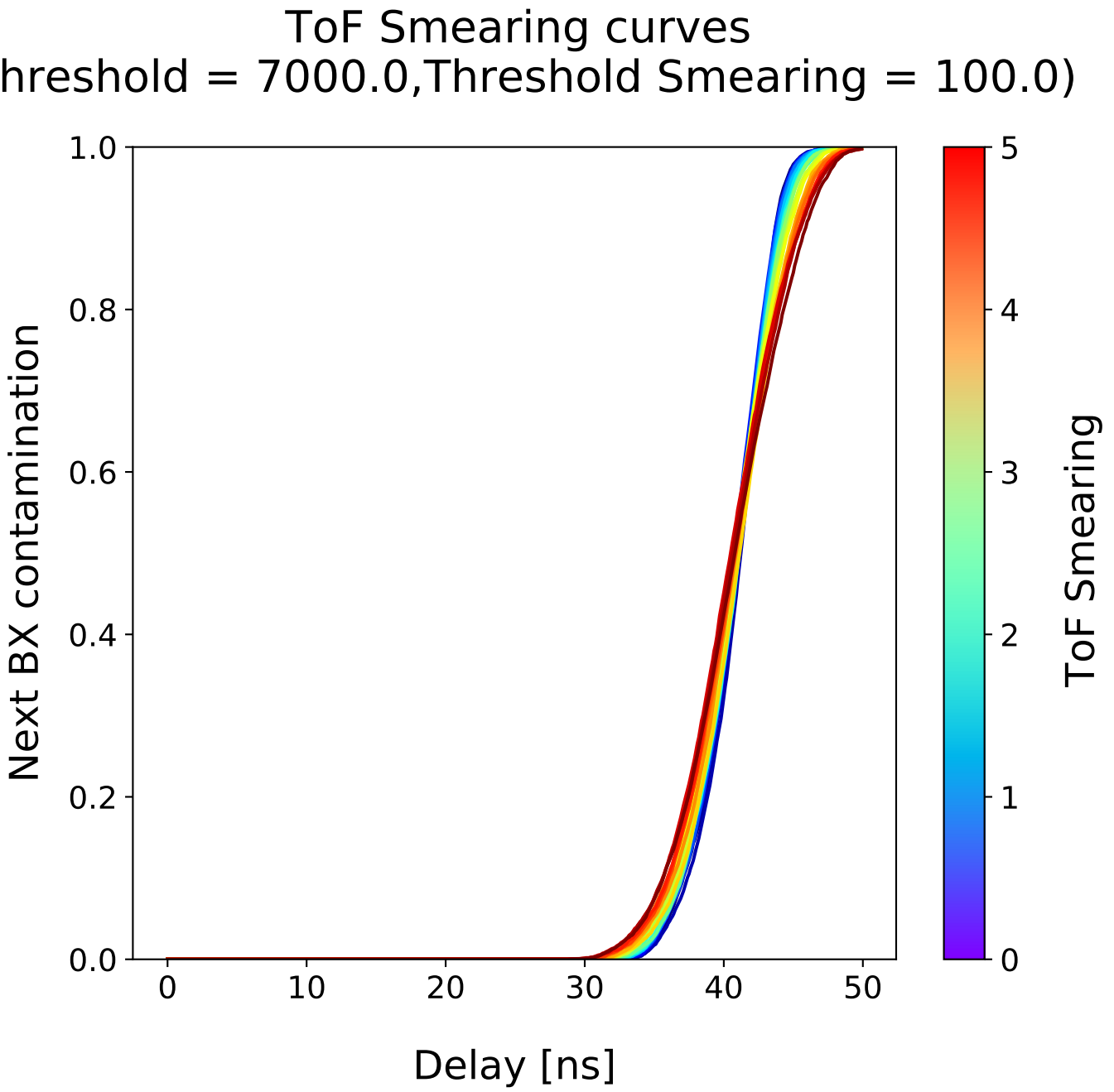

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

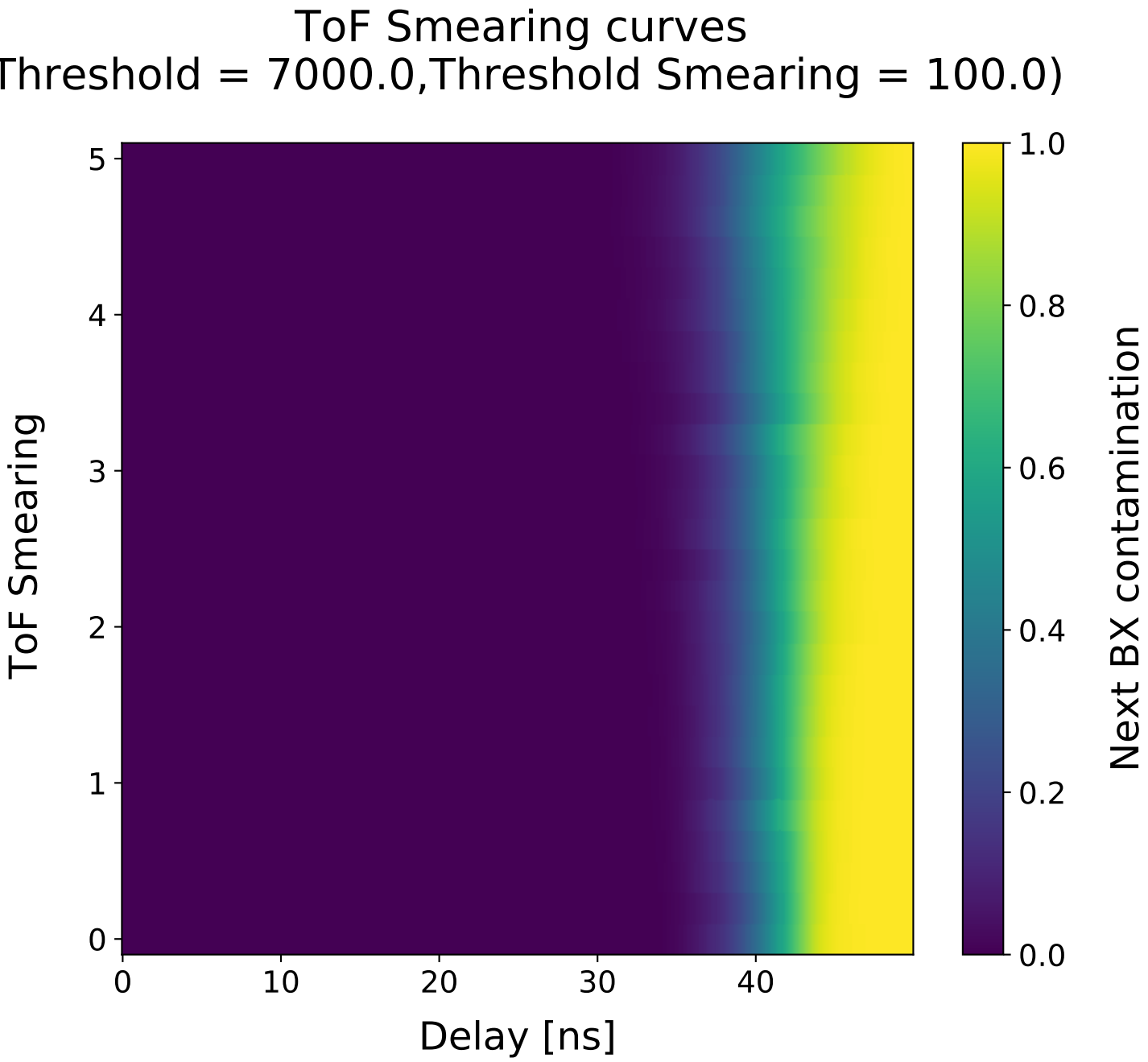

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
50
5
4
3
2
1
0

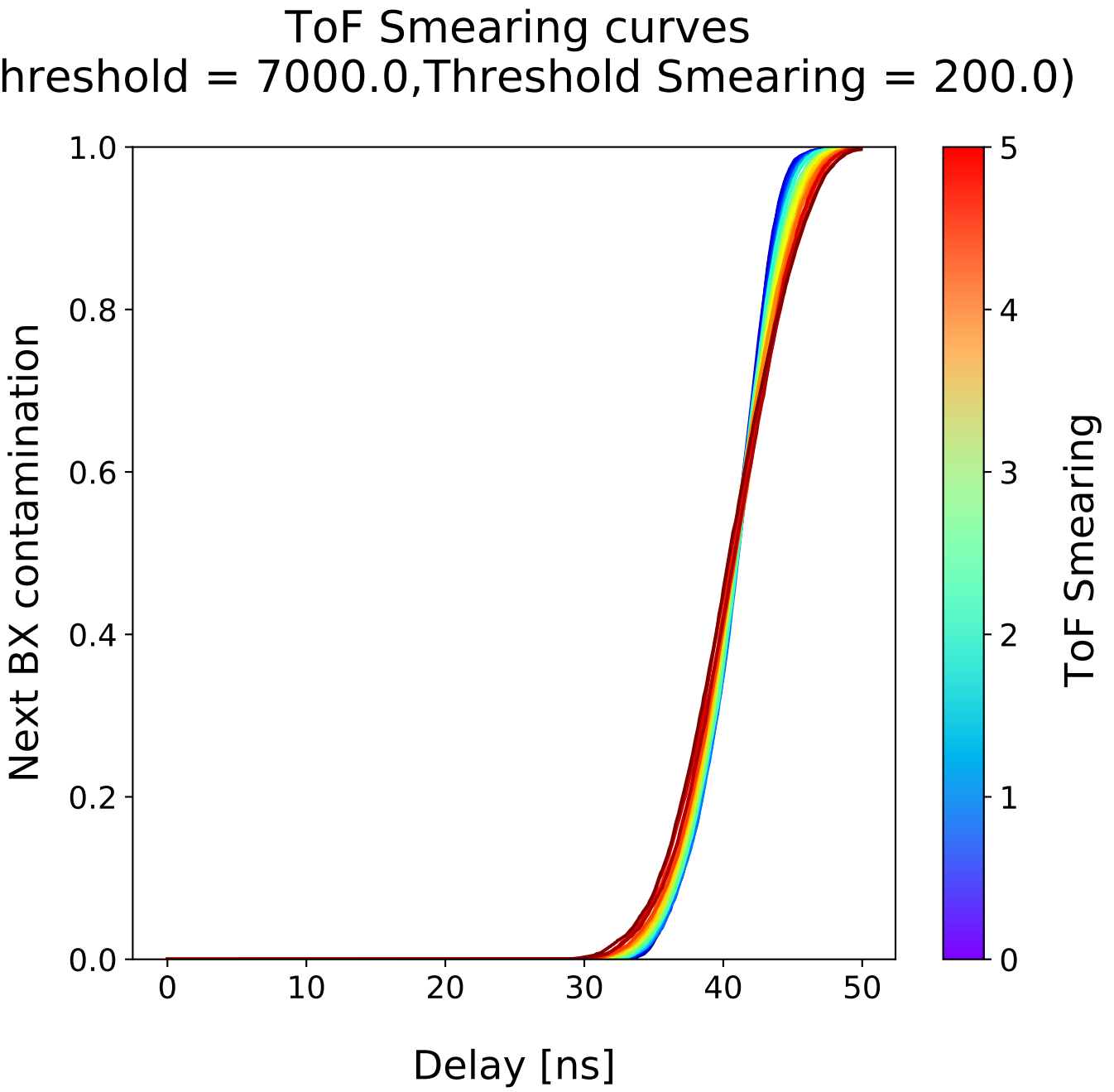

ToF Smearing curves
(Threshold = 6800.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

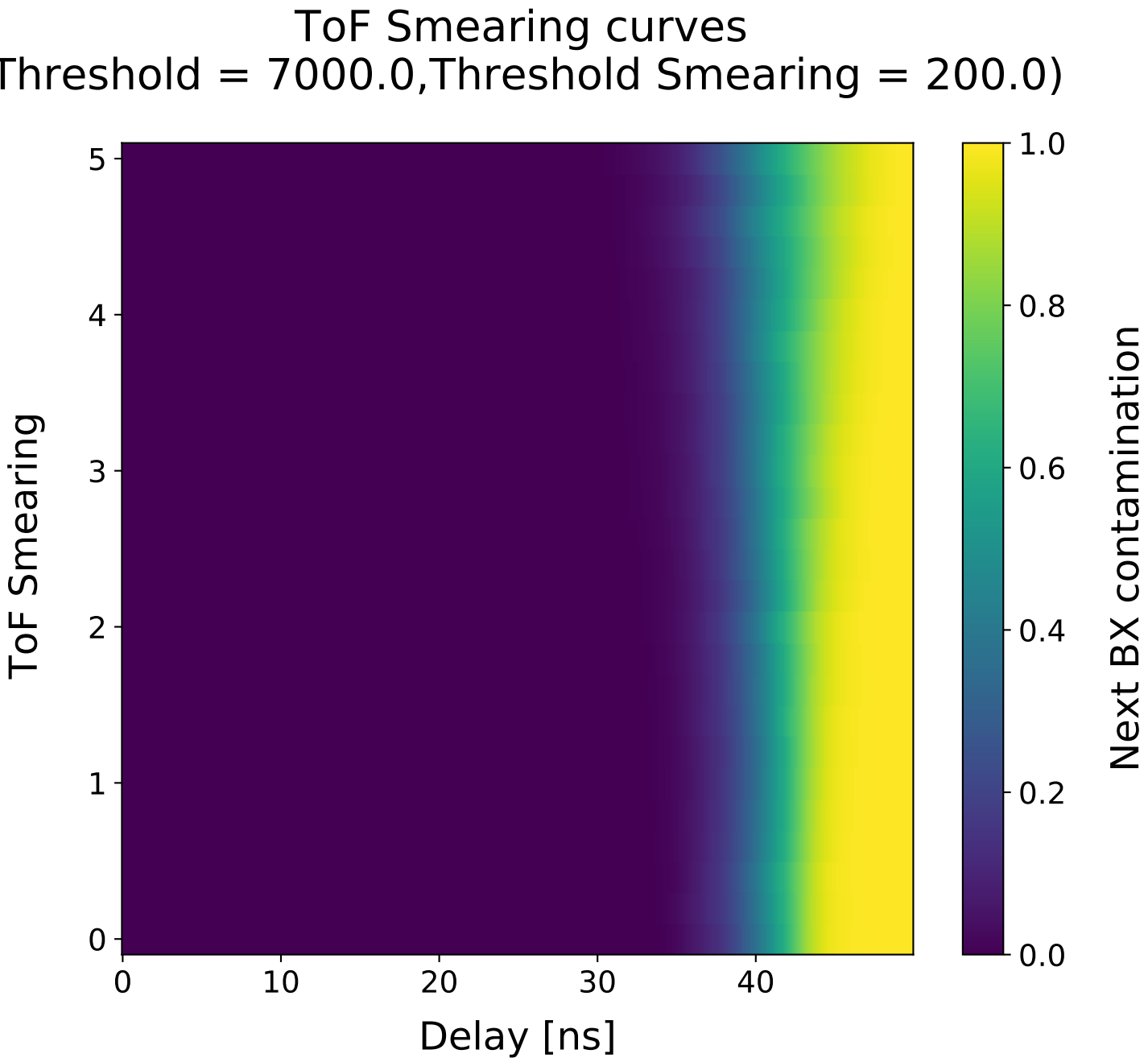

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

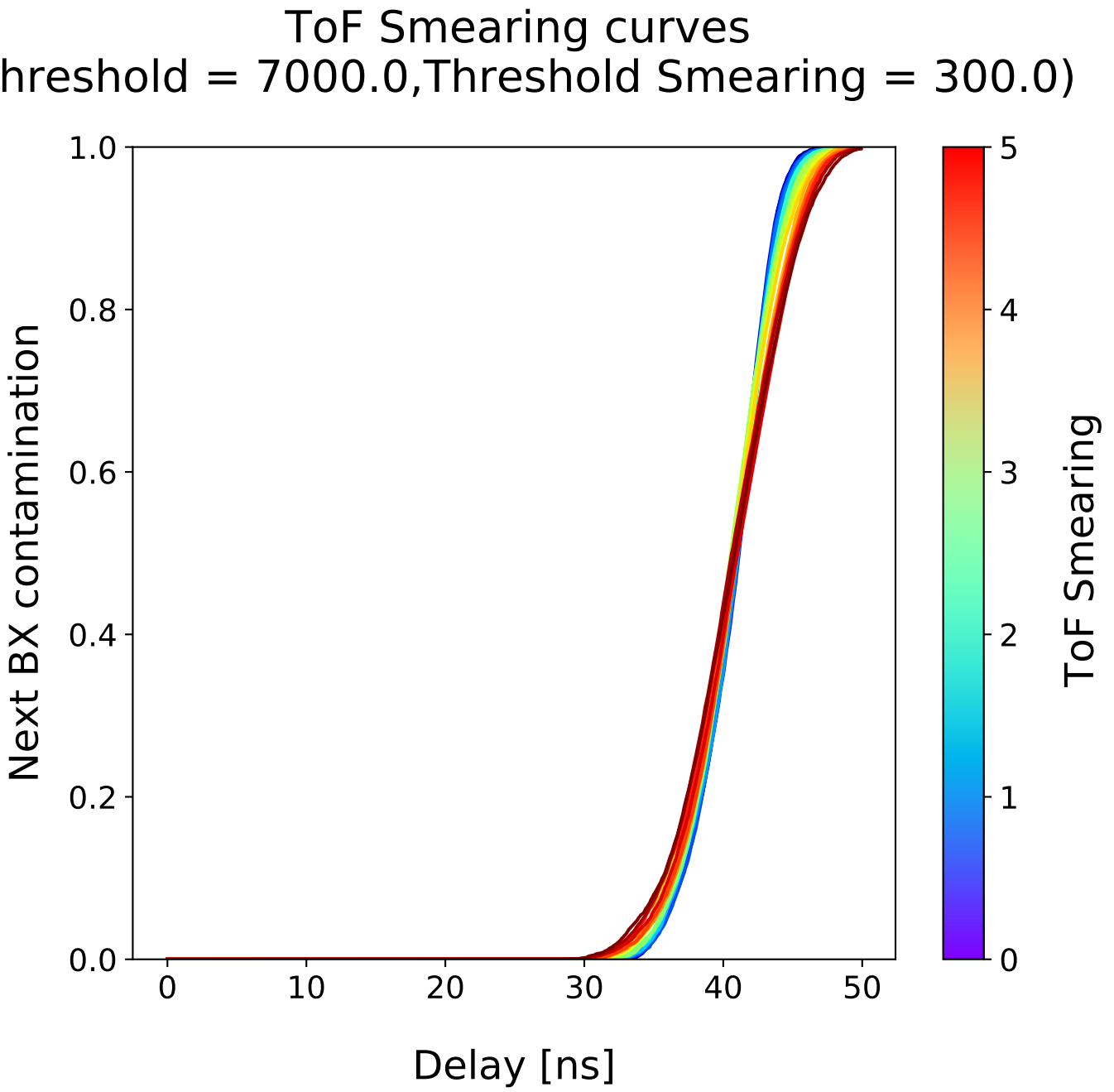

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

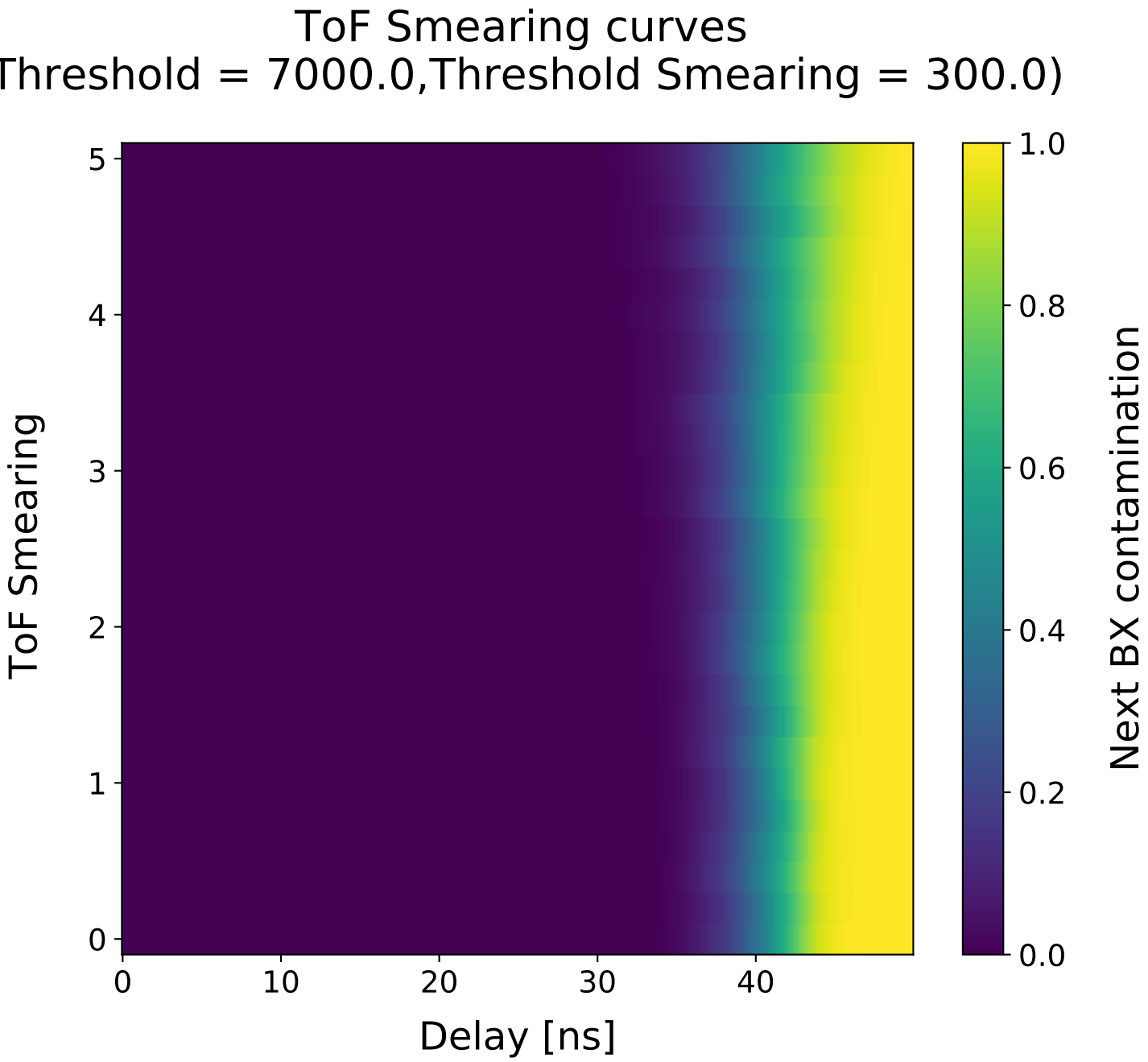

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

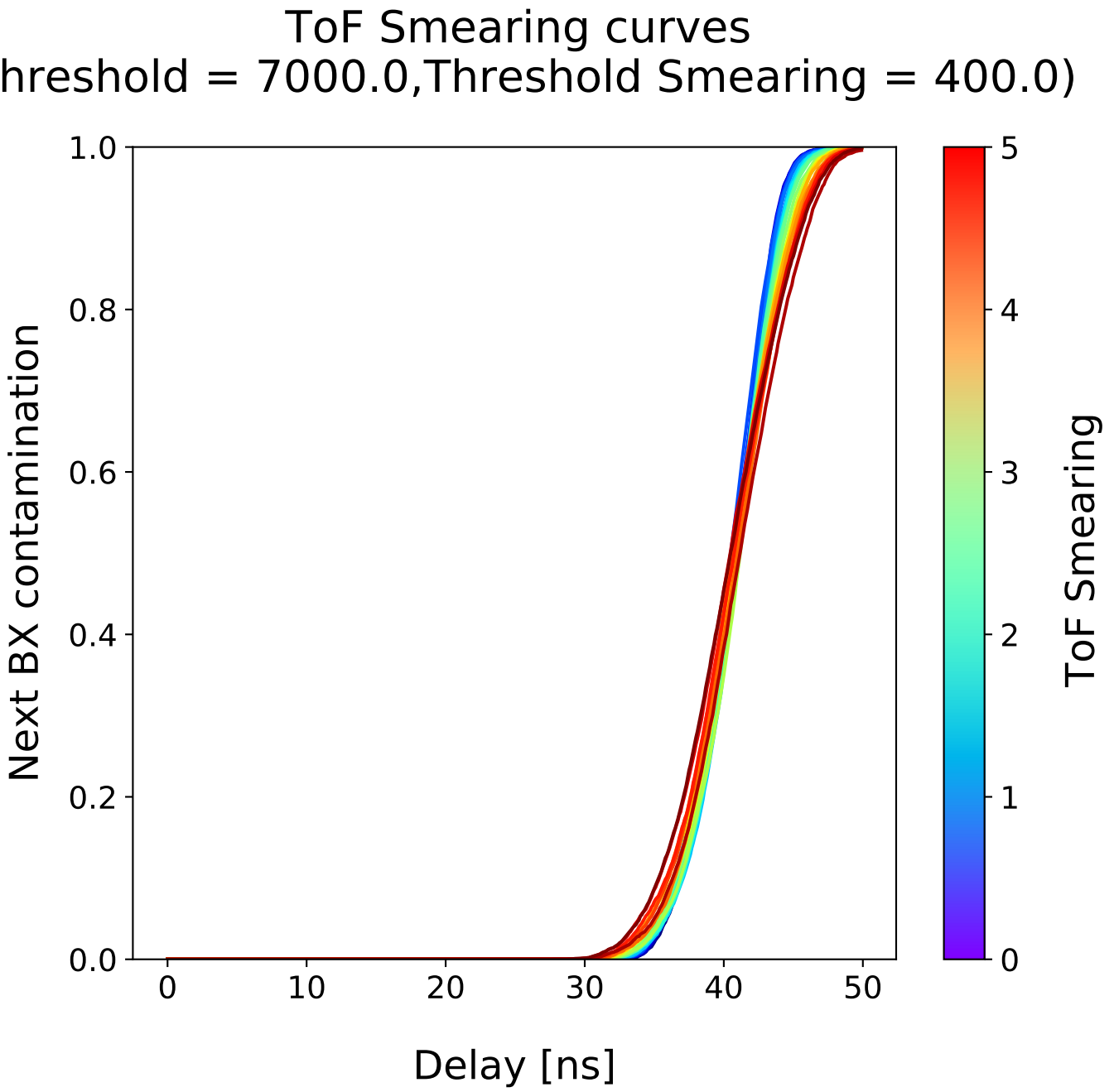

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

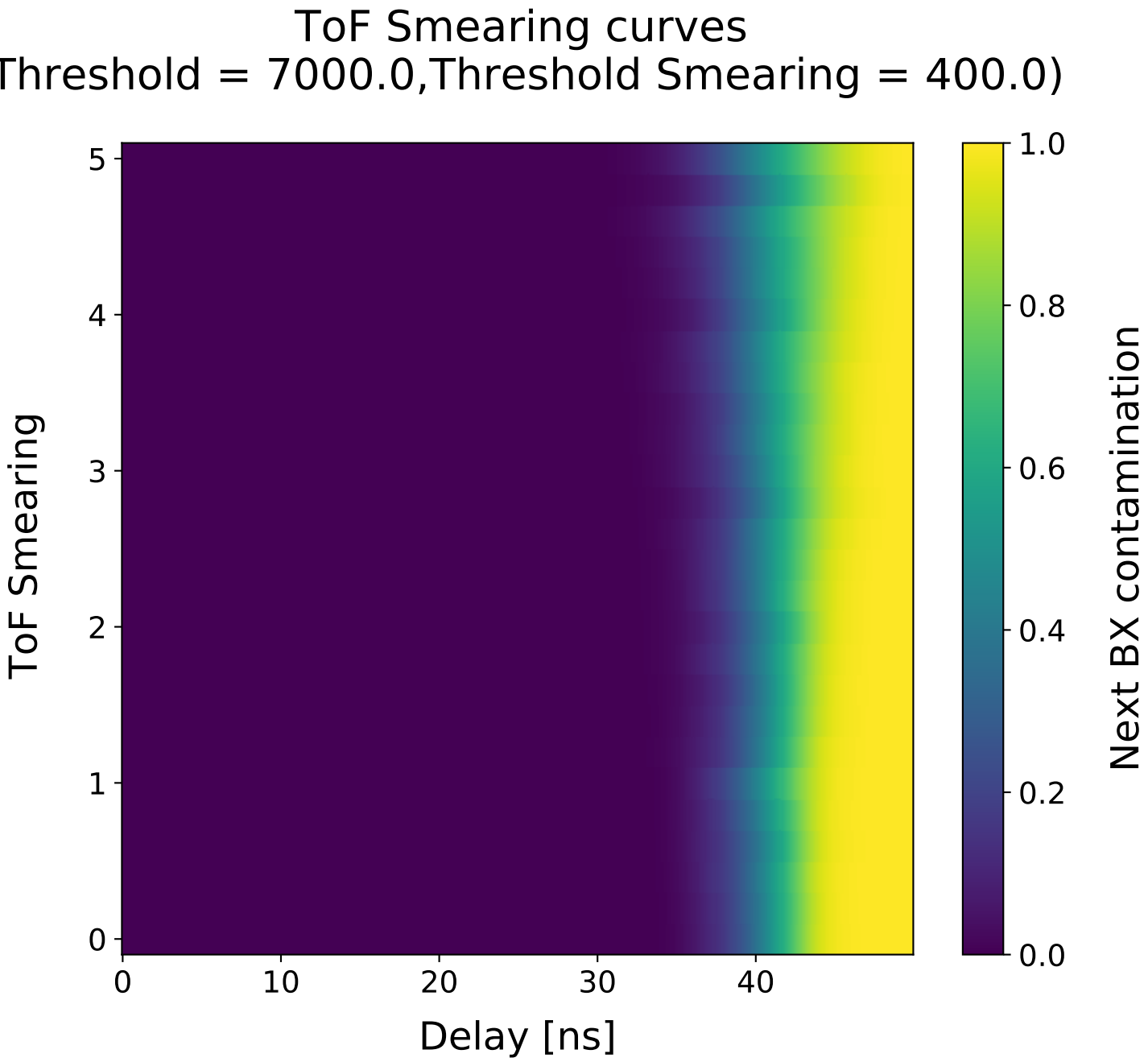

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

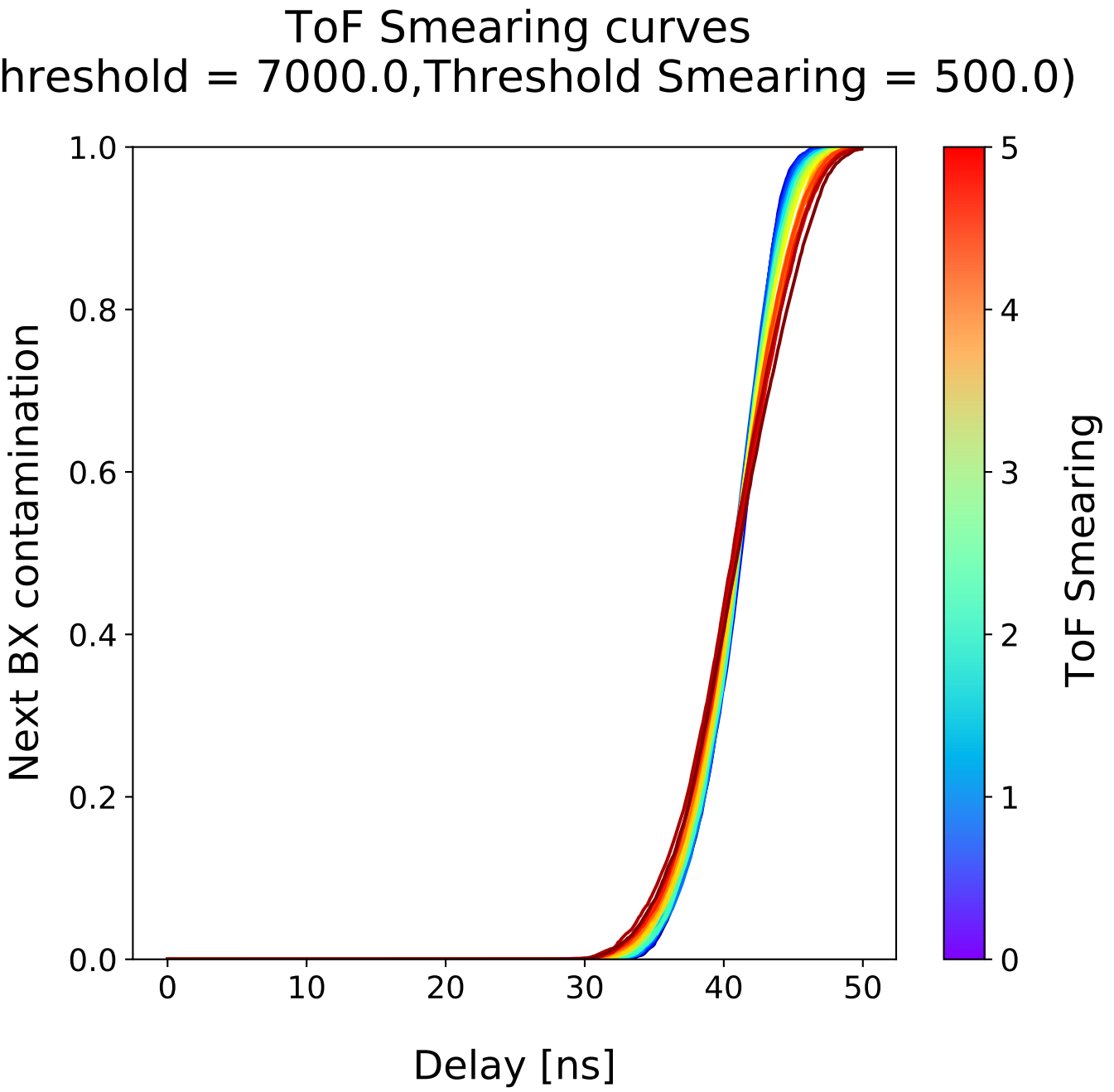

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

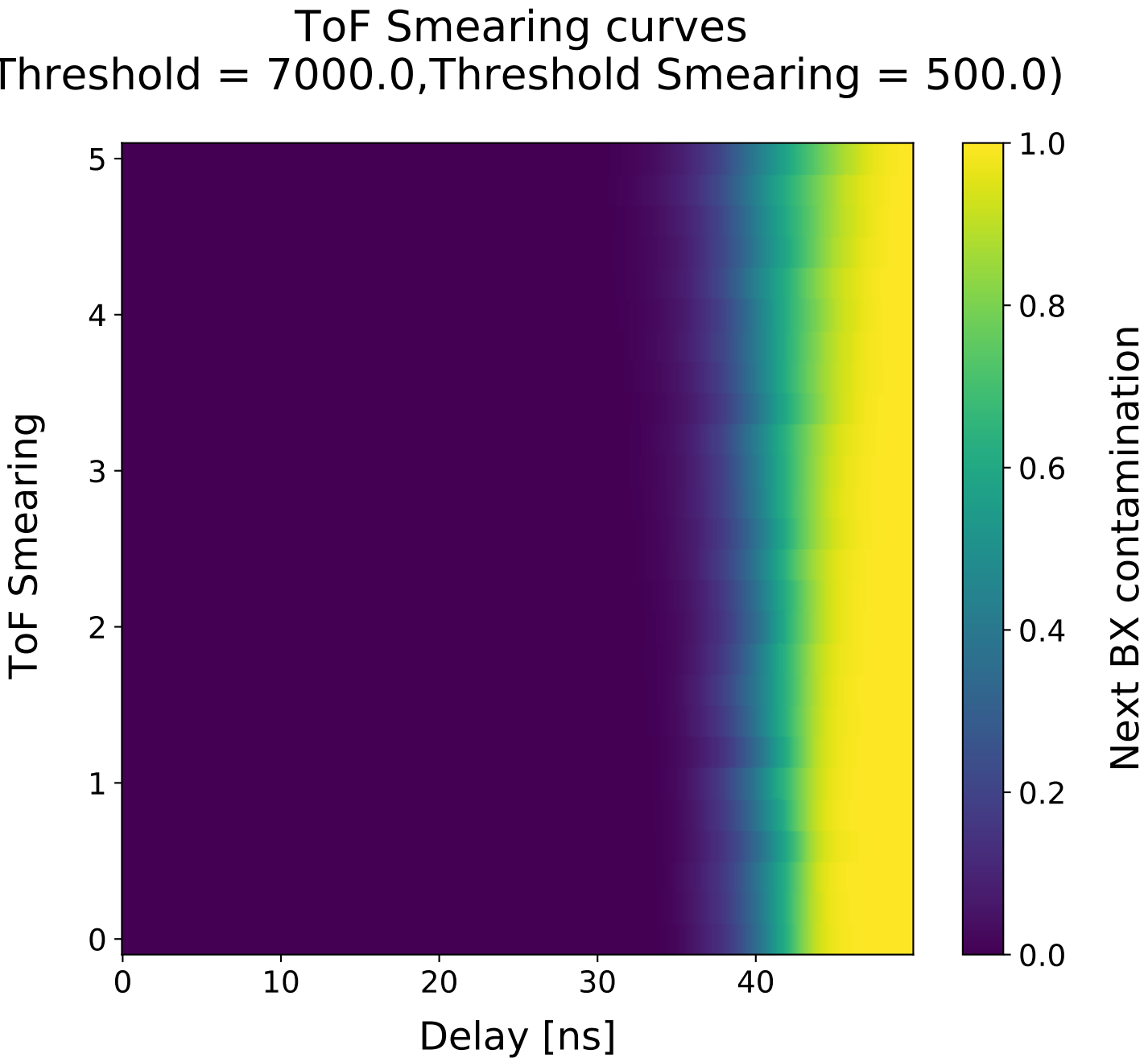

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

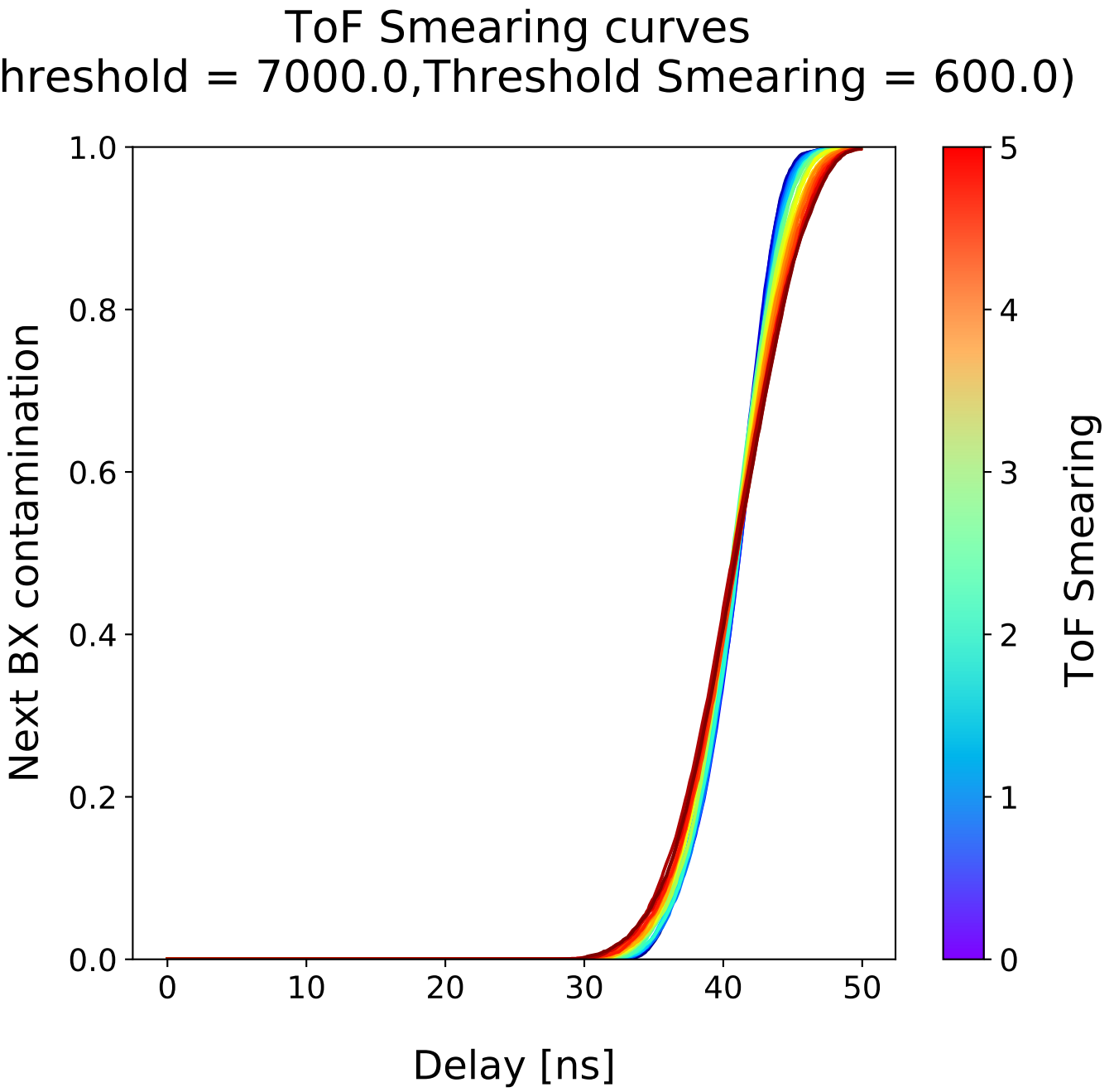

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

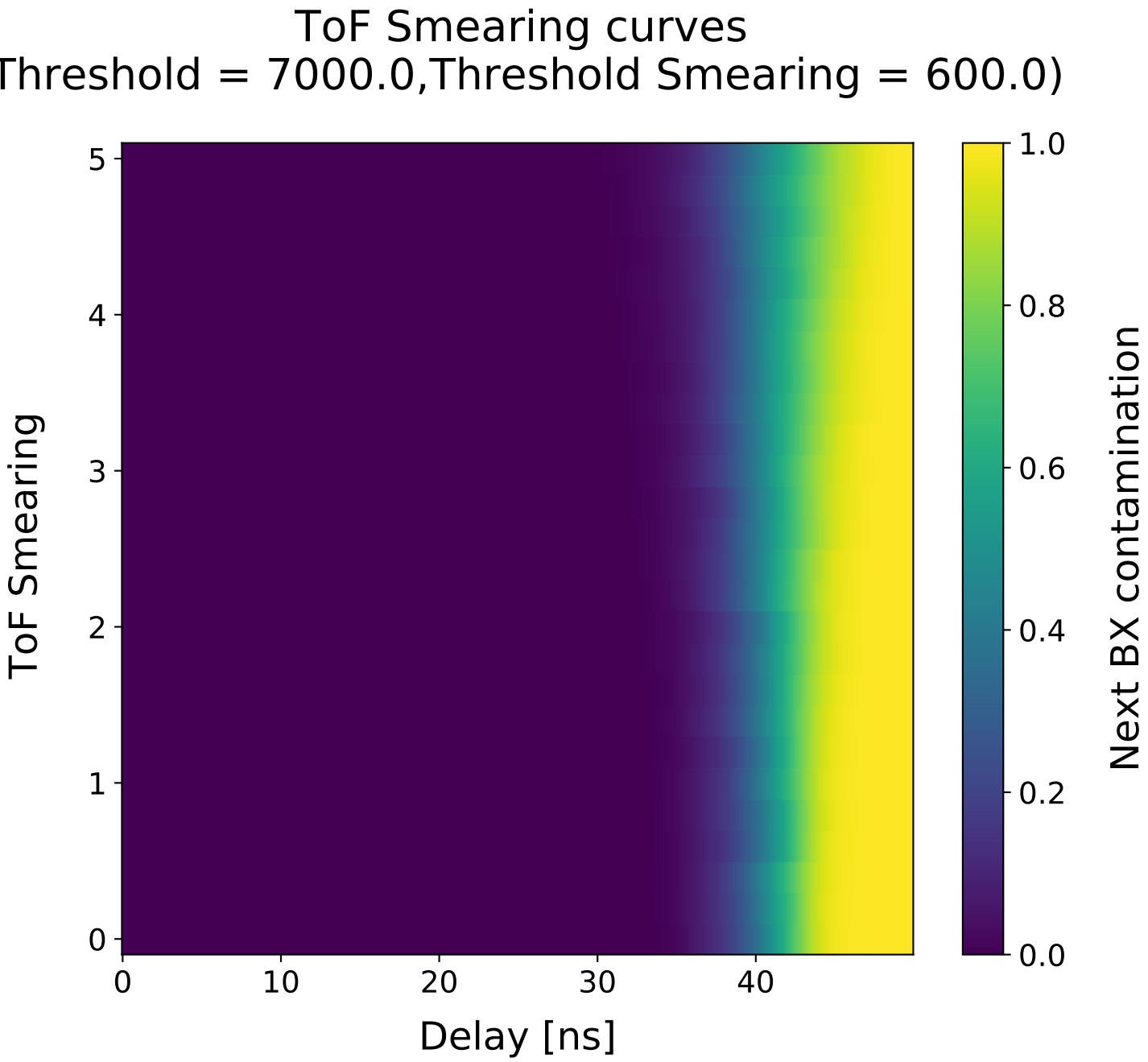

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

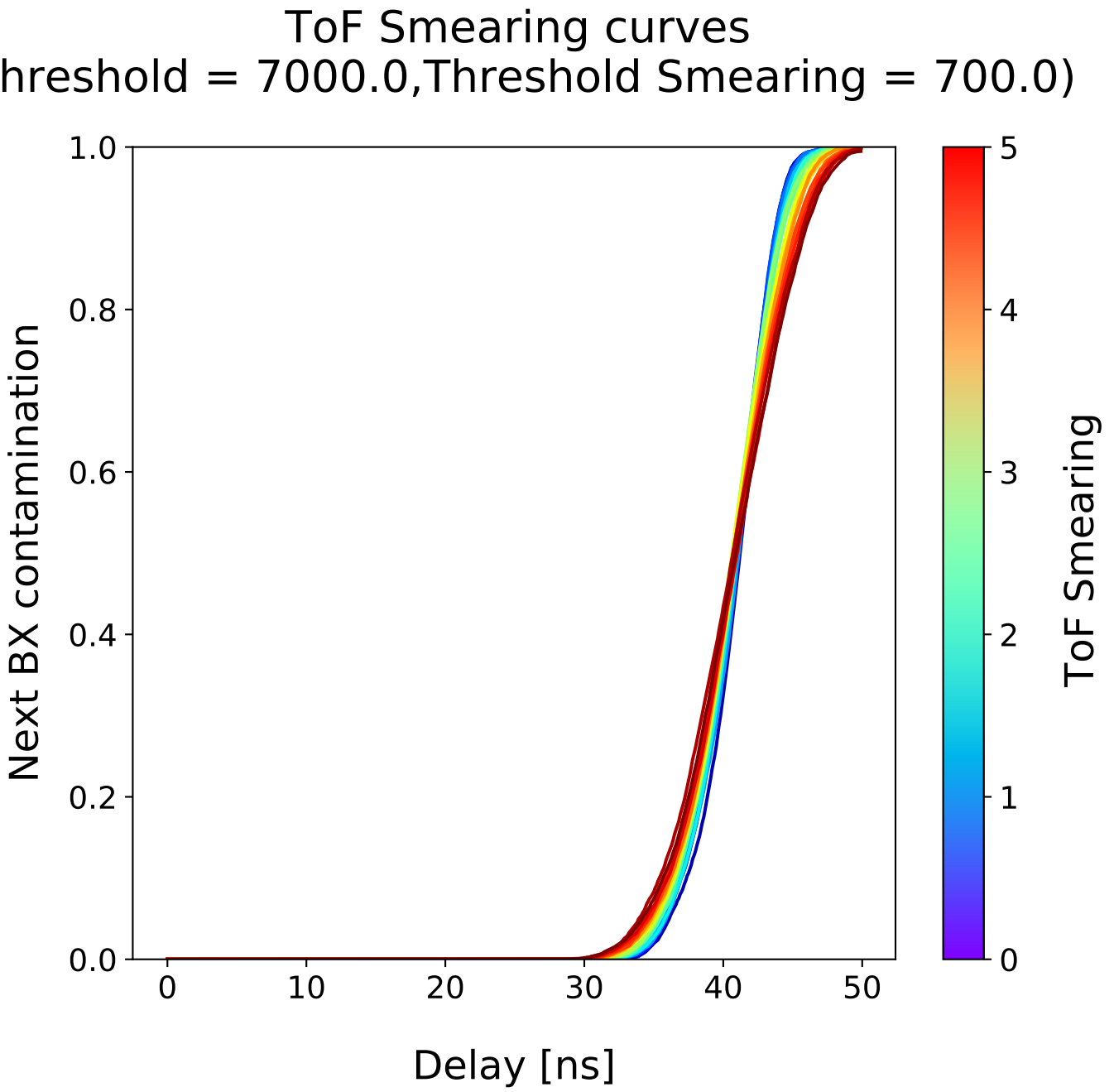

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

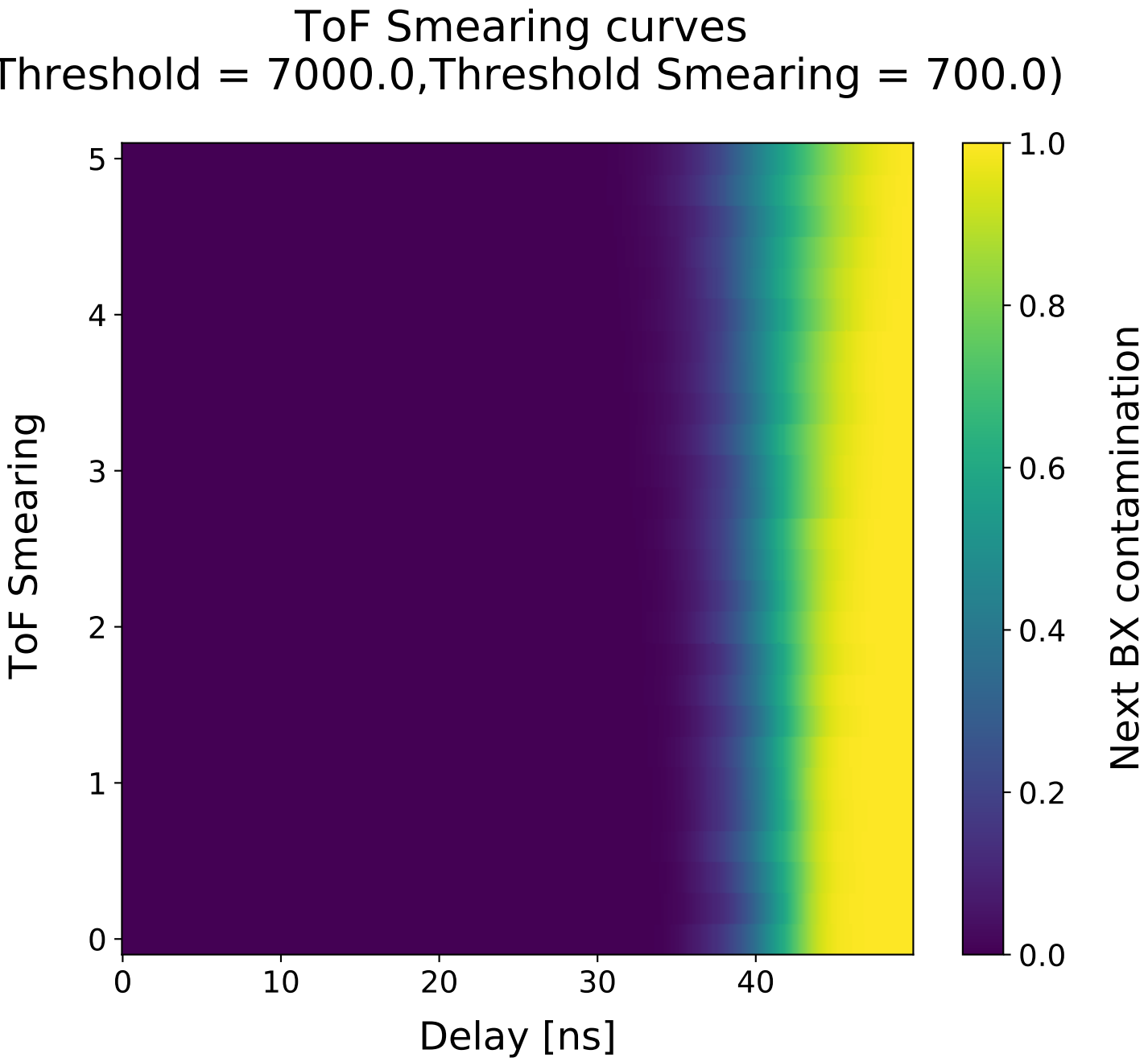

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

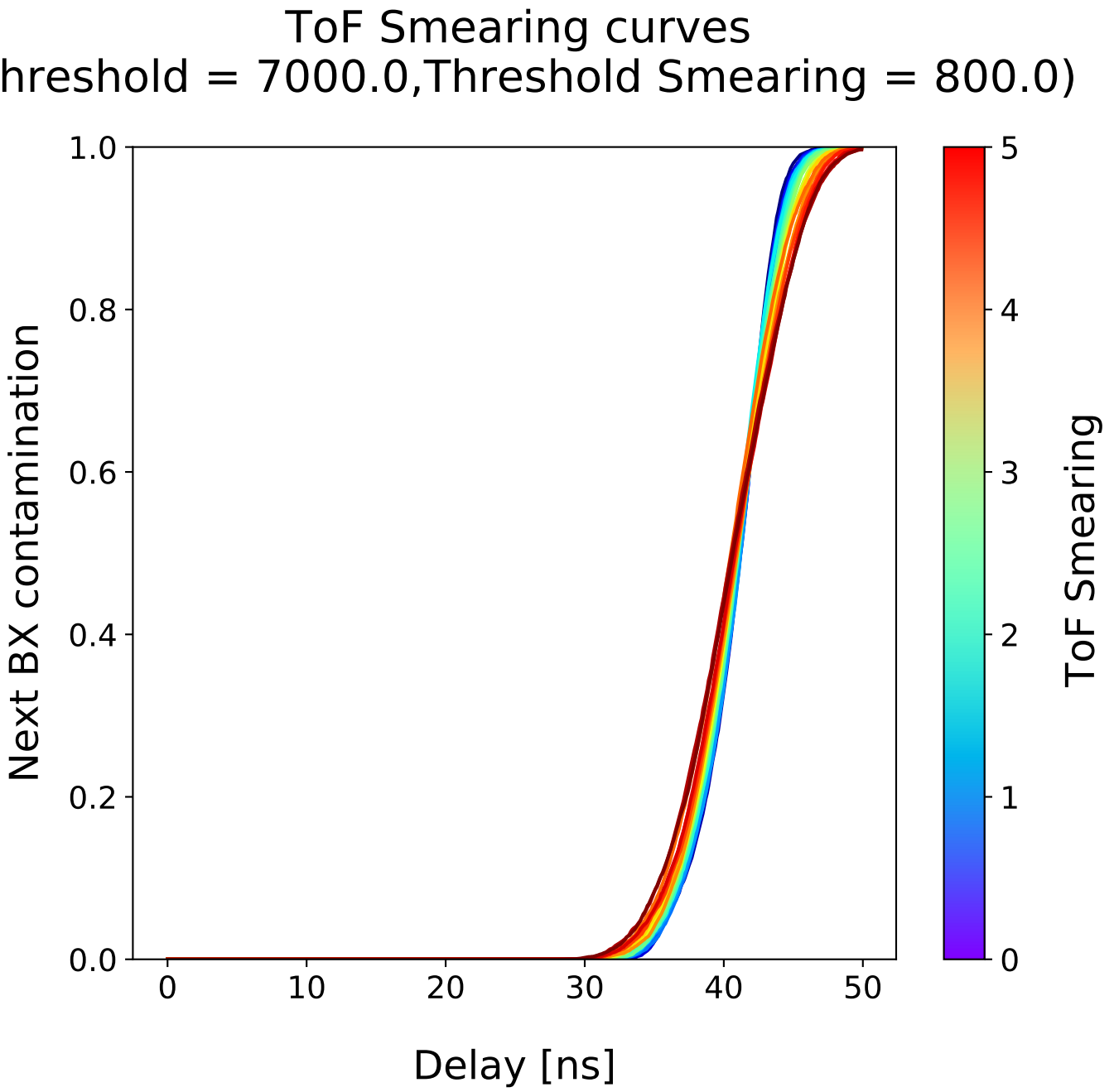

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

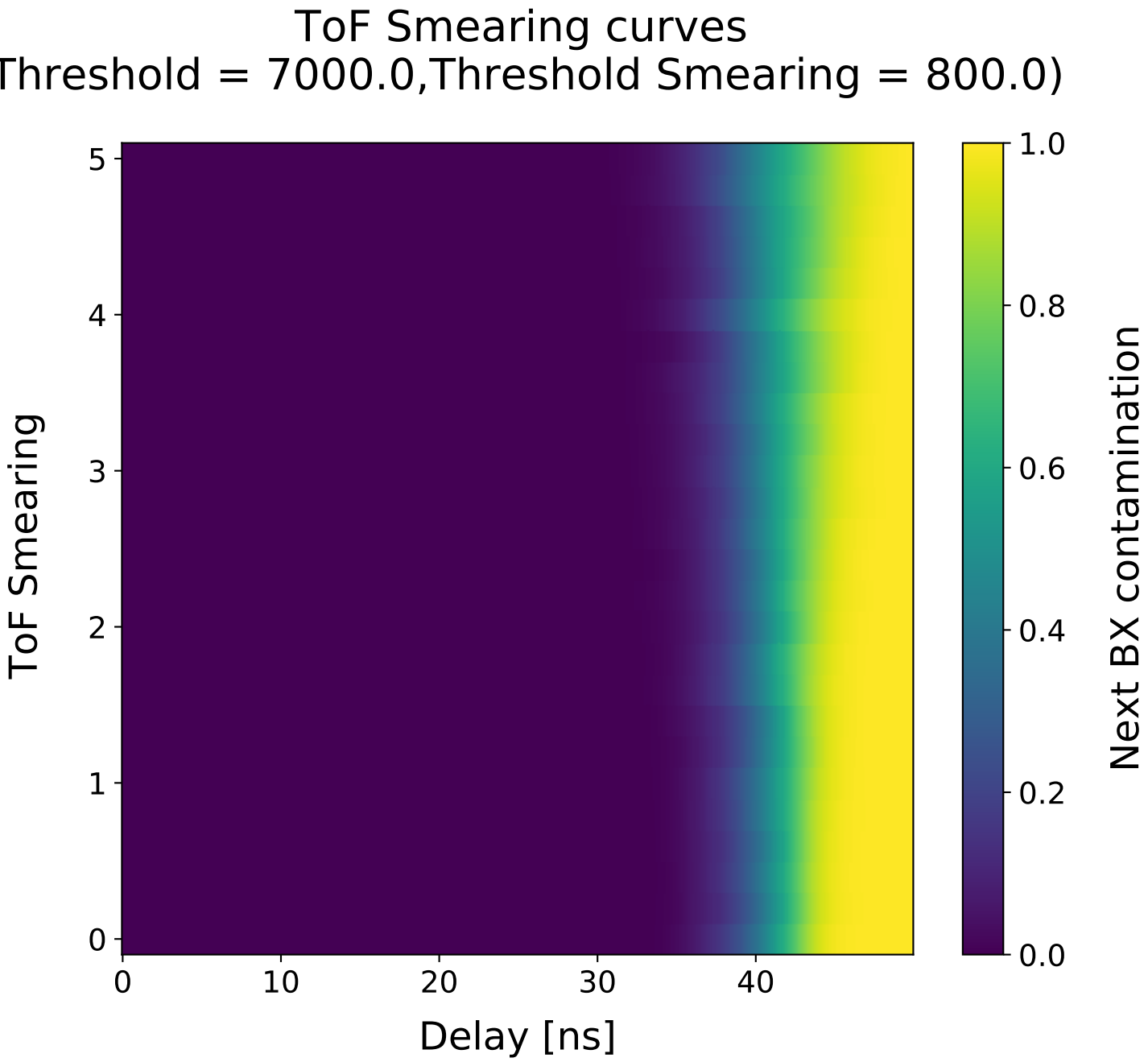

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

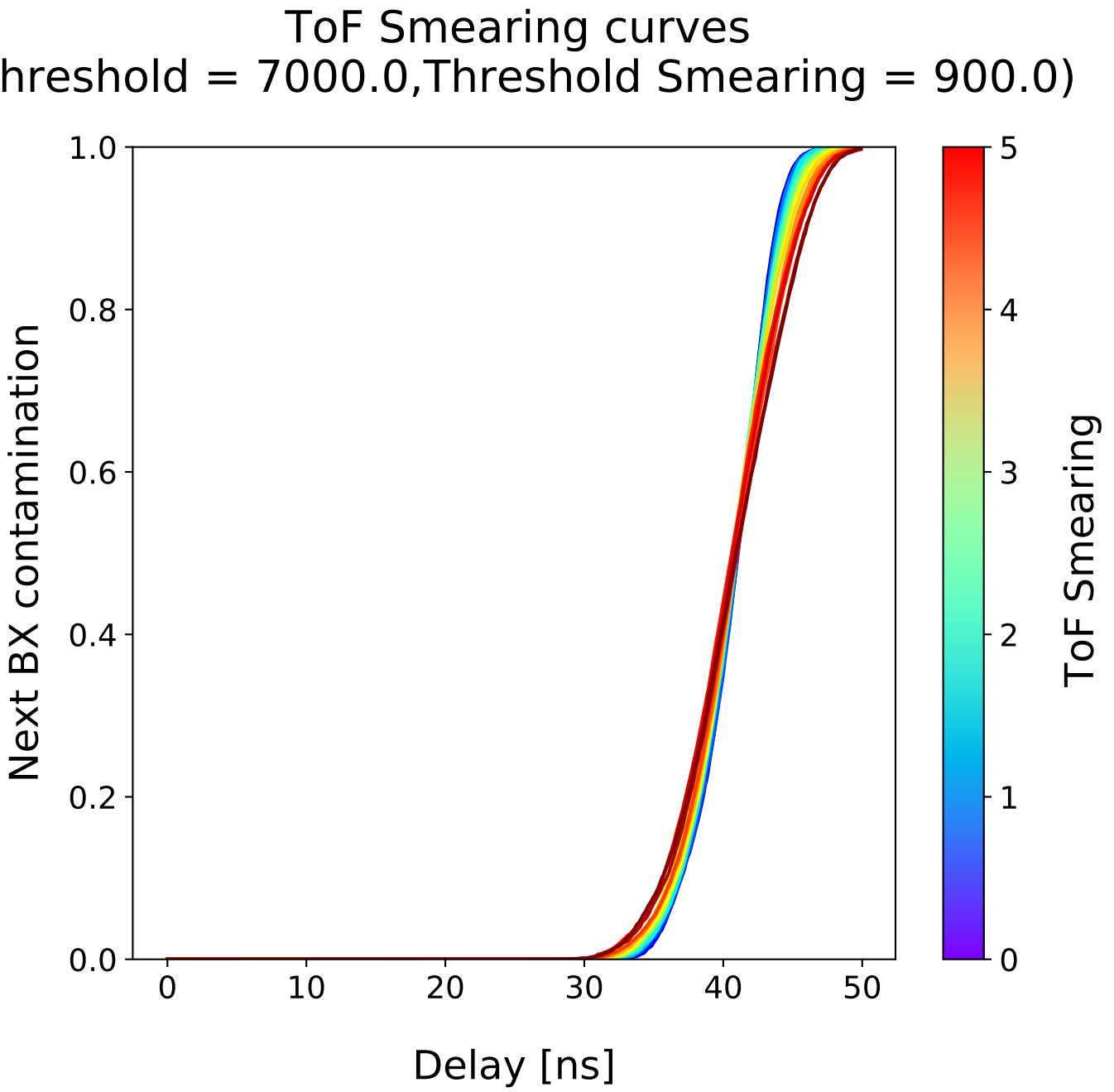

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

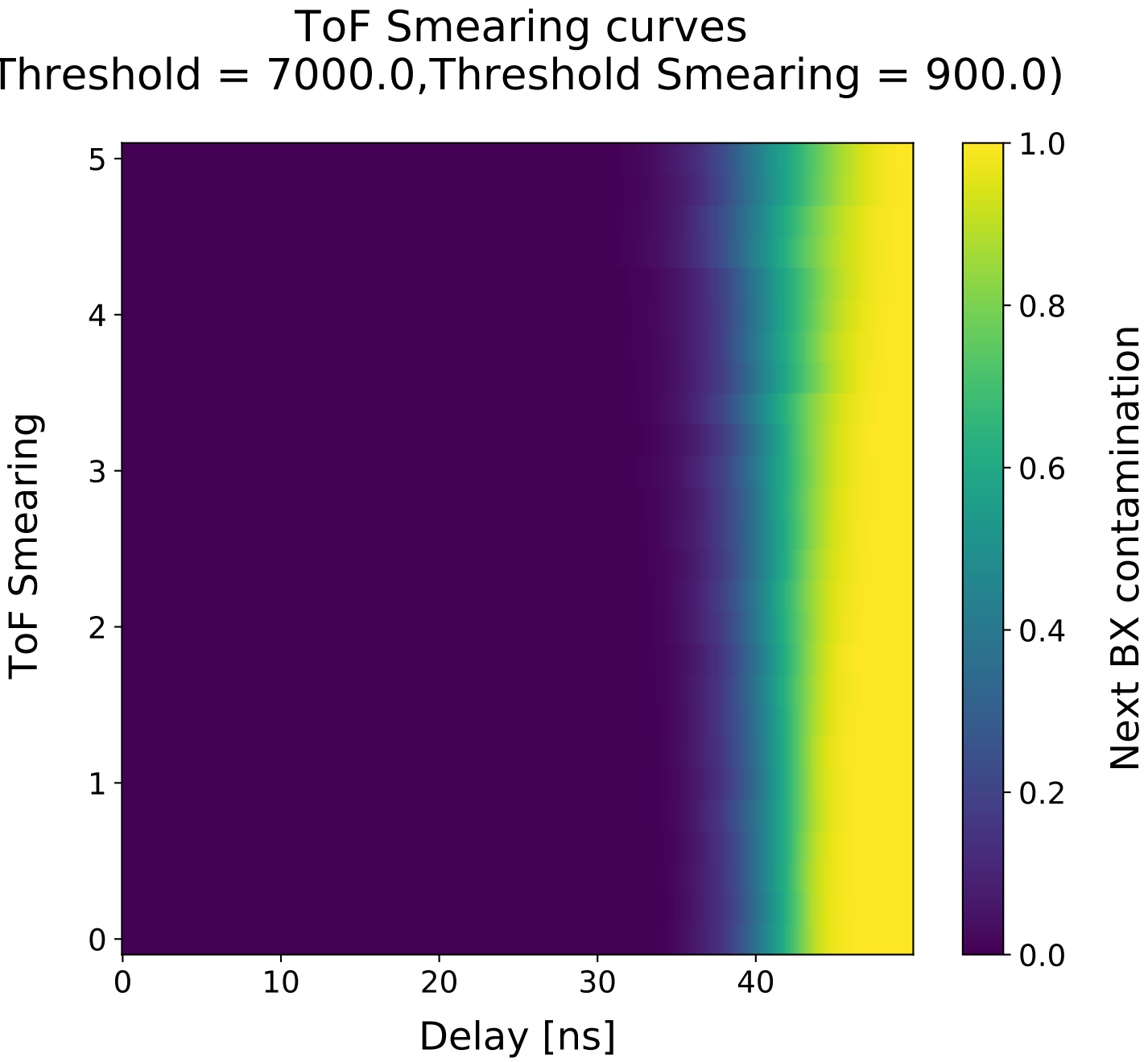

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

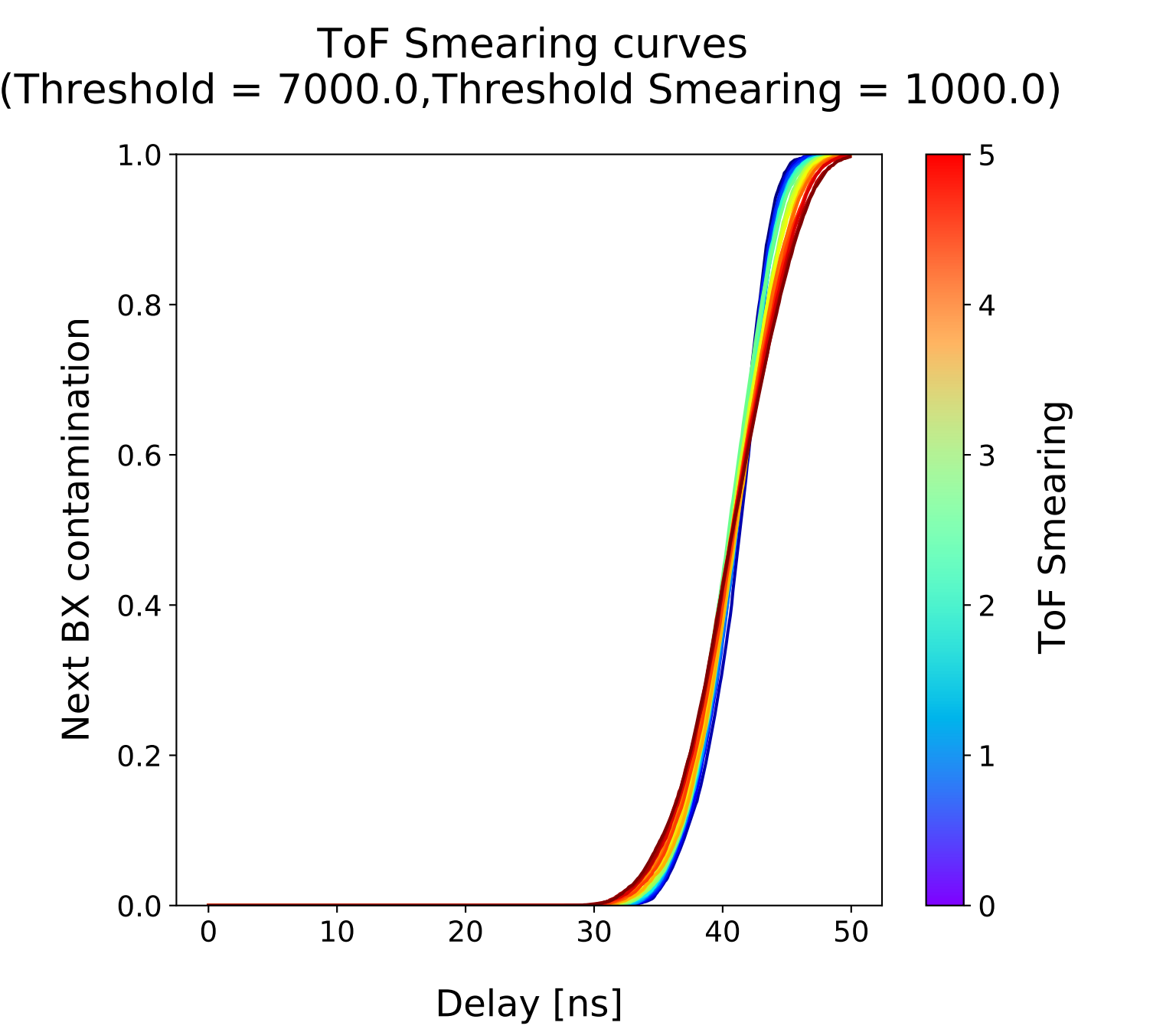

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

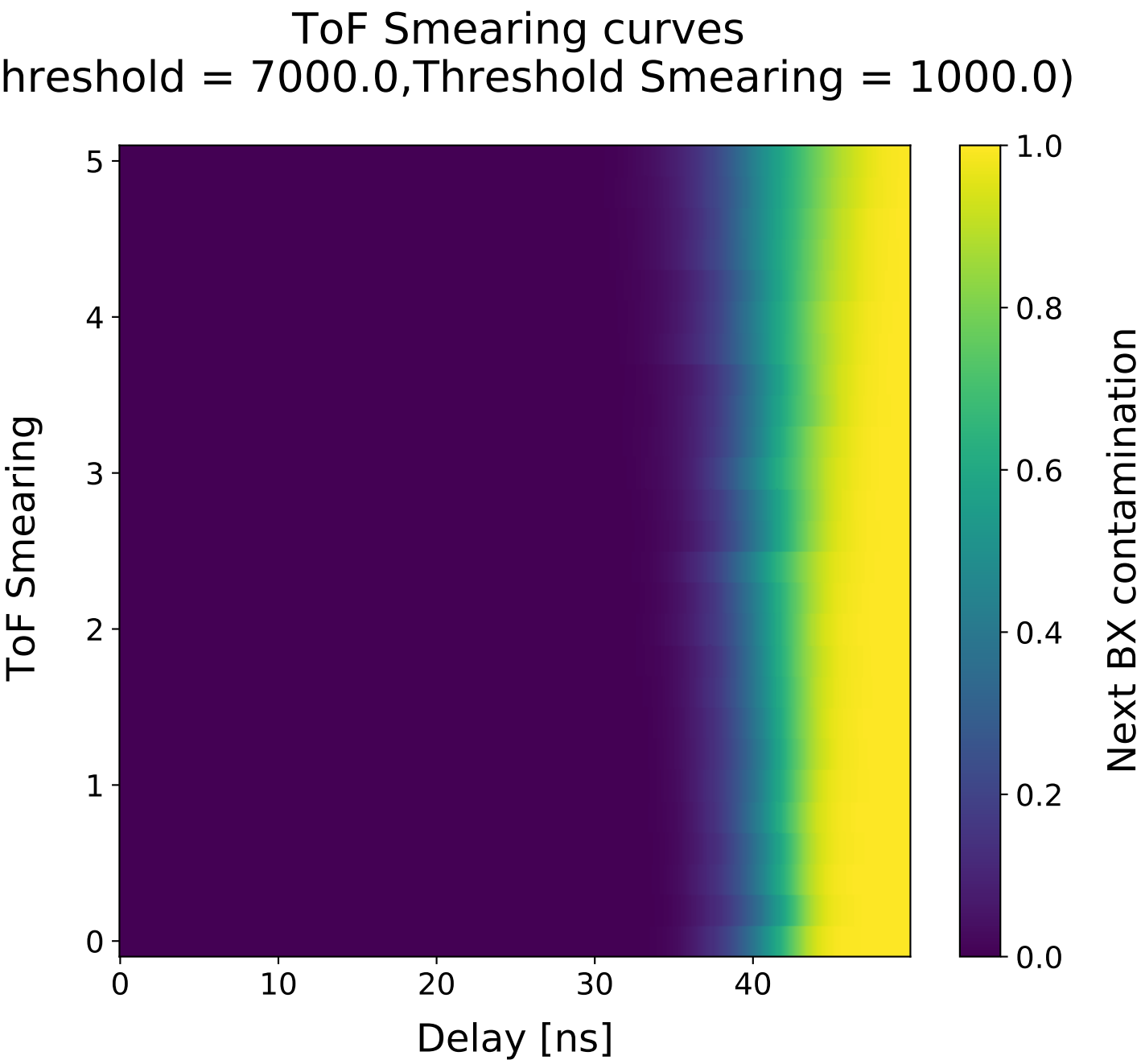

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

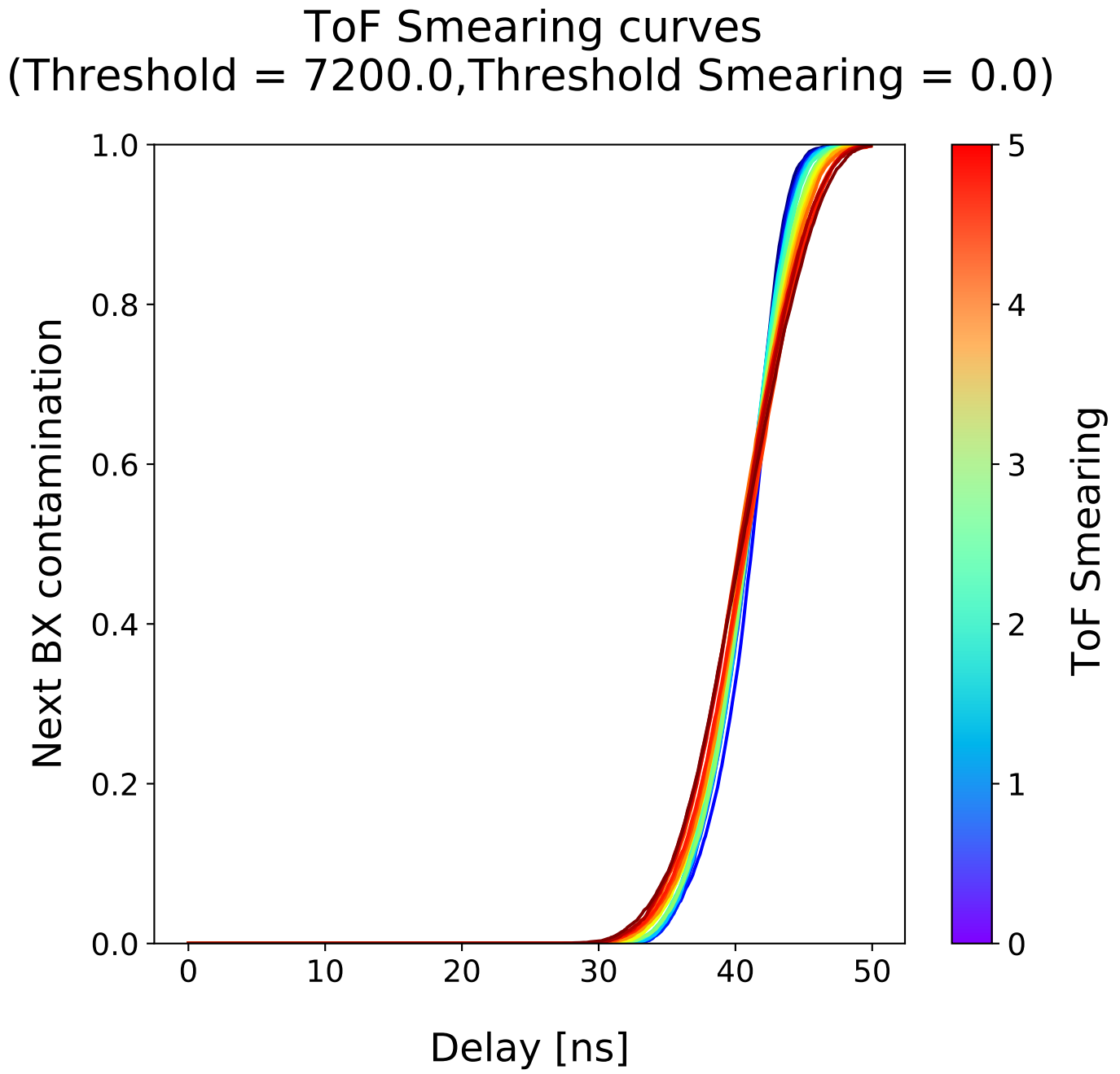

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

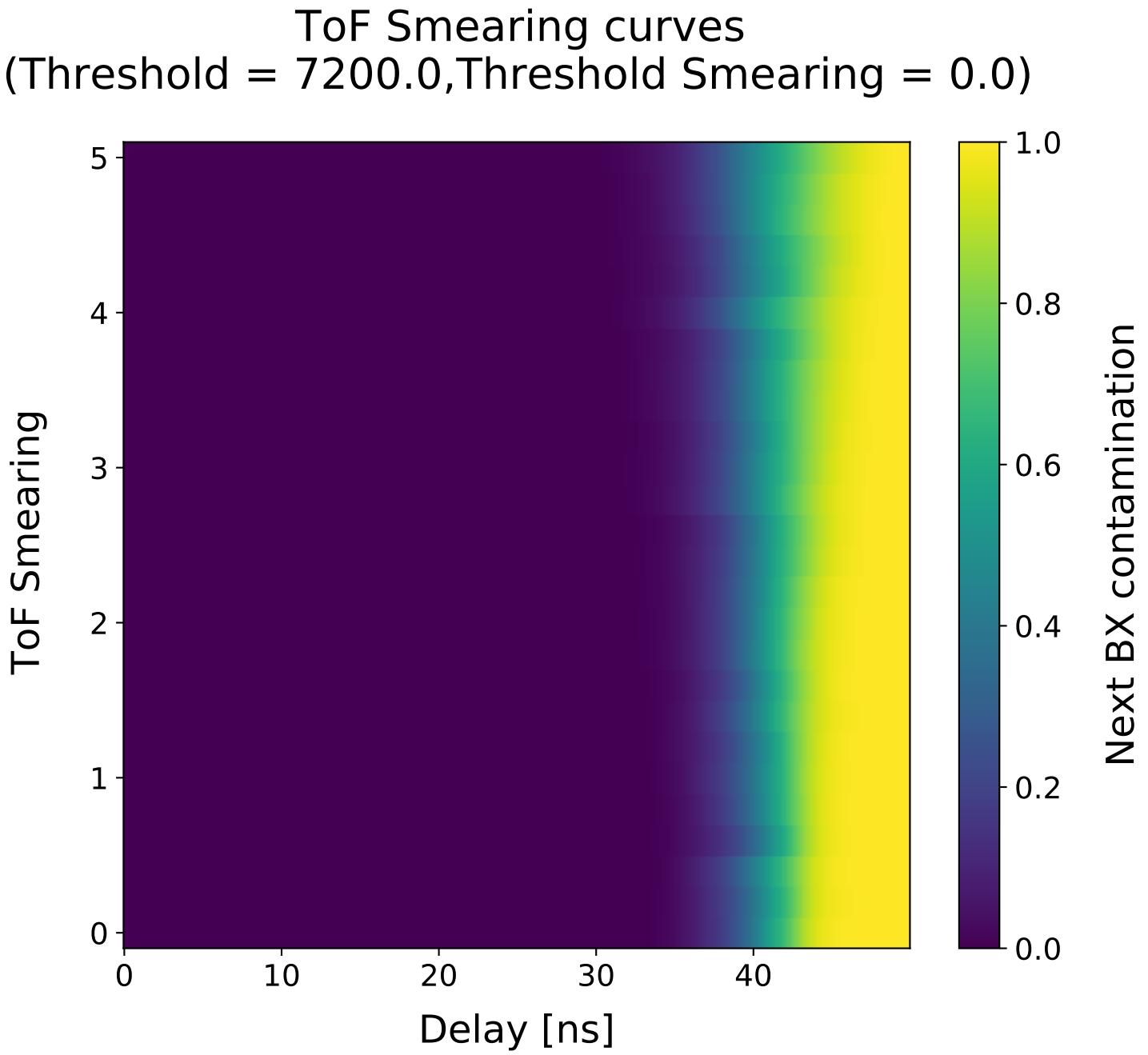

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

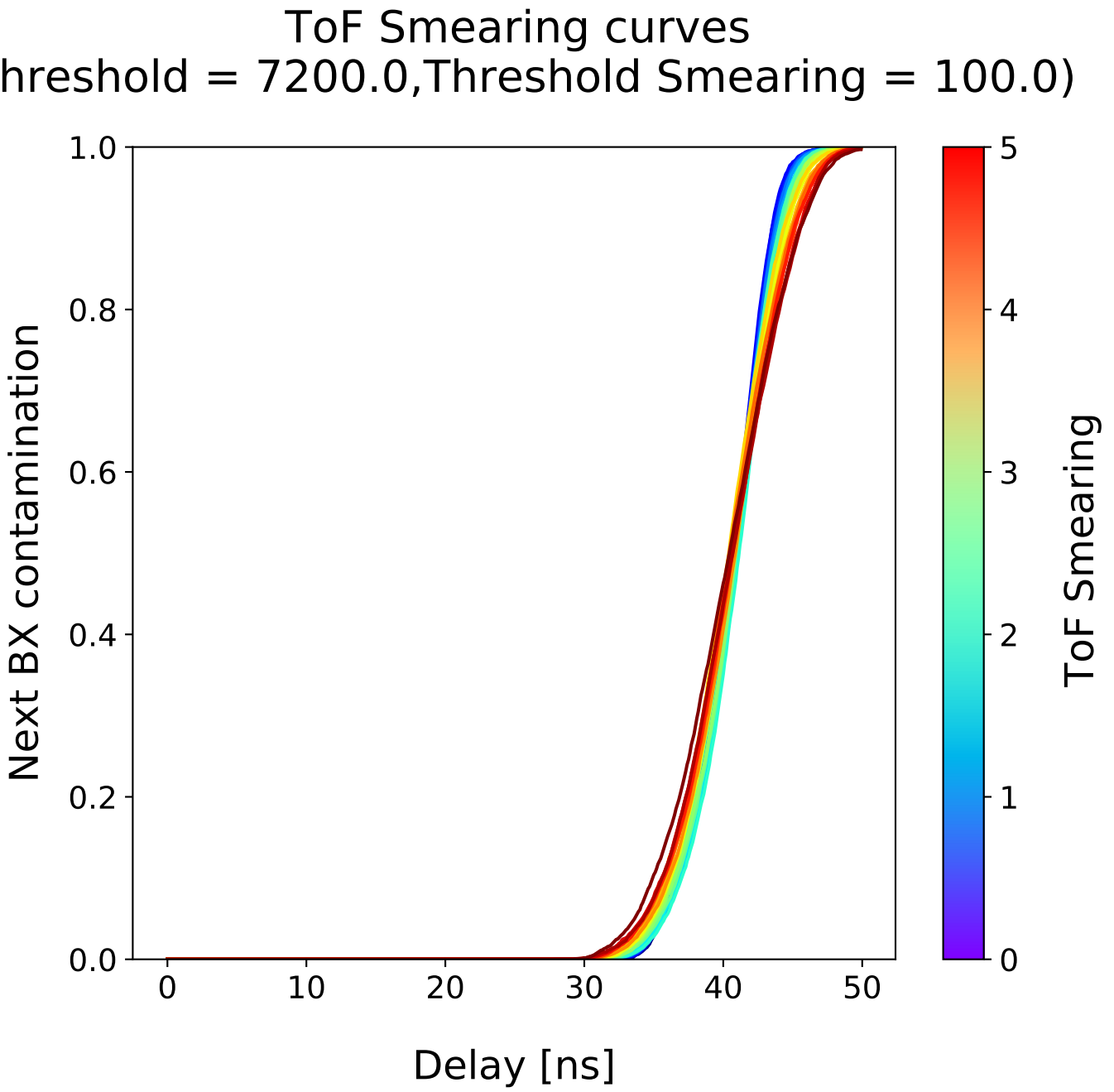

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

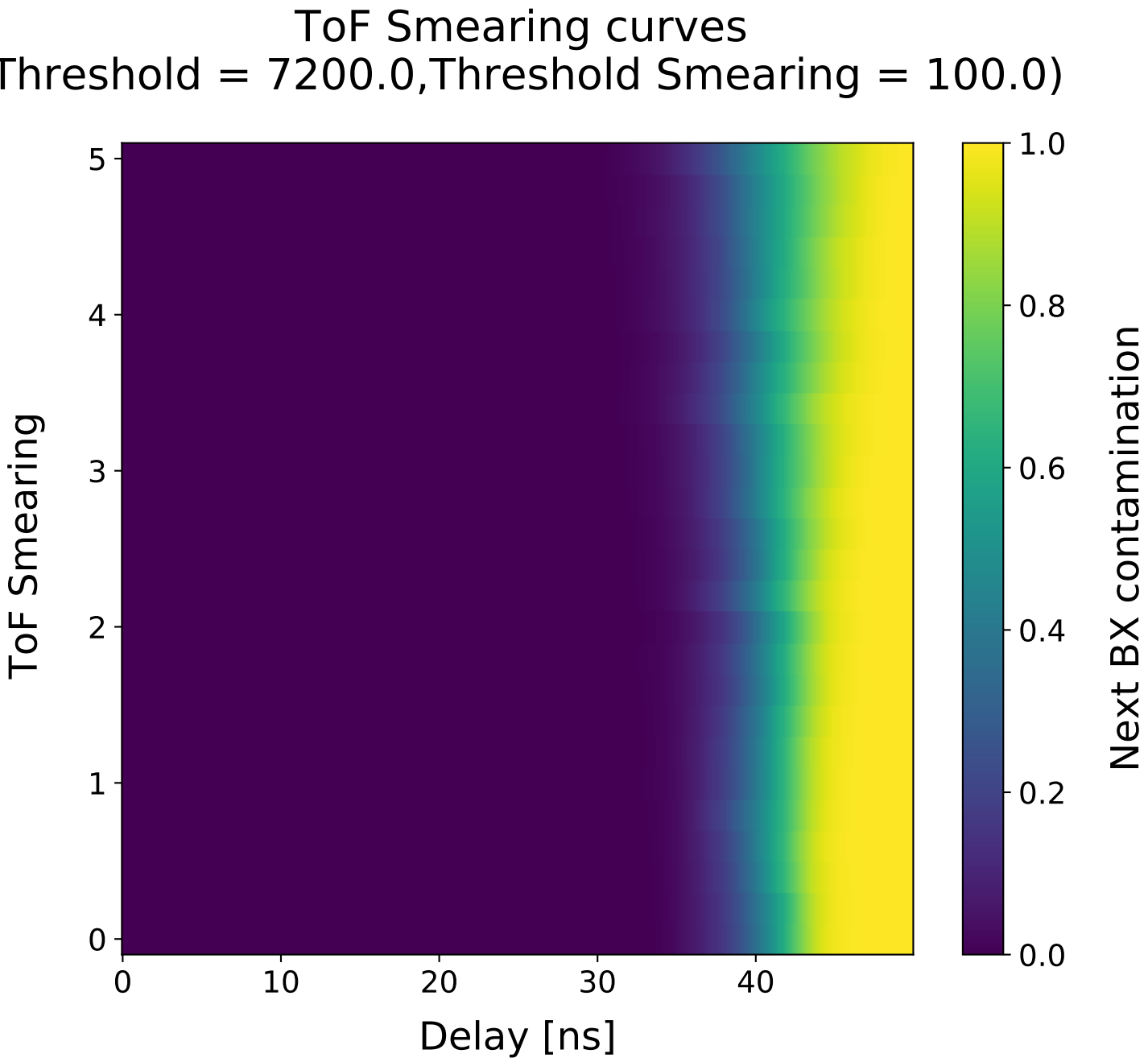

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

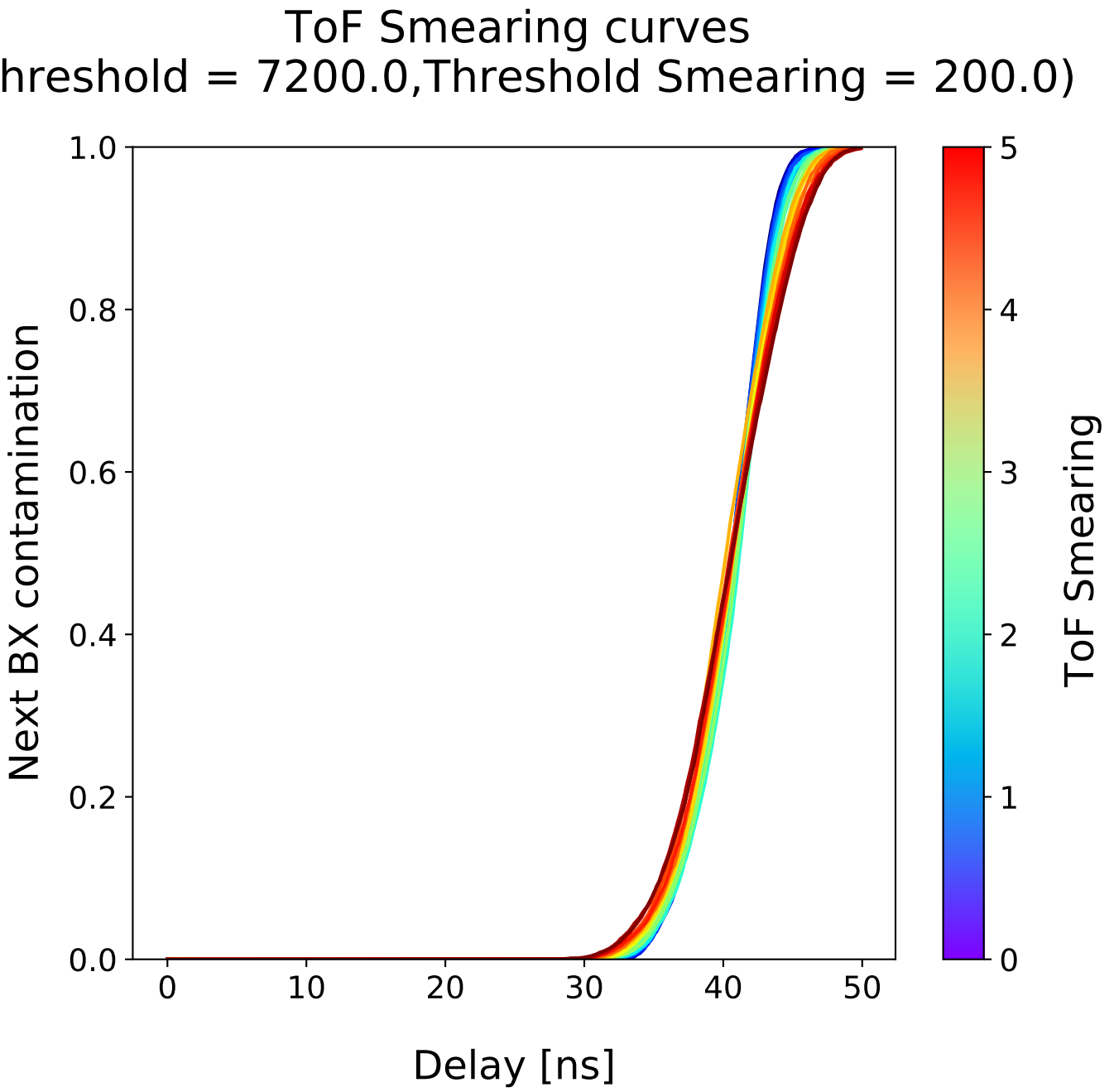

ToF Smearing curves
(Threshold = 7000.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

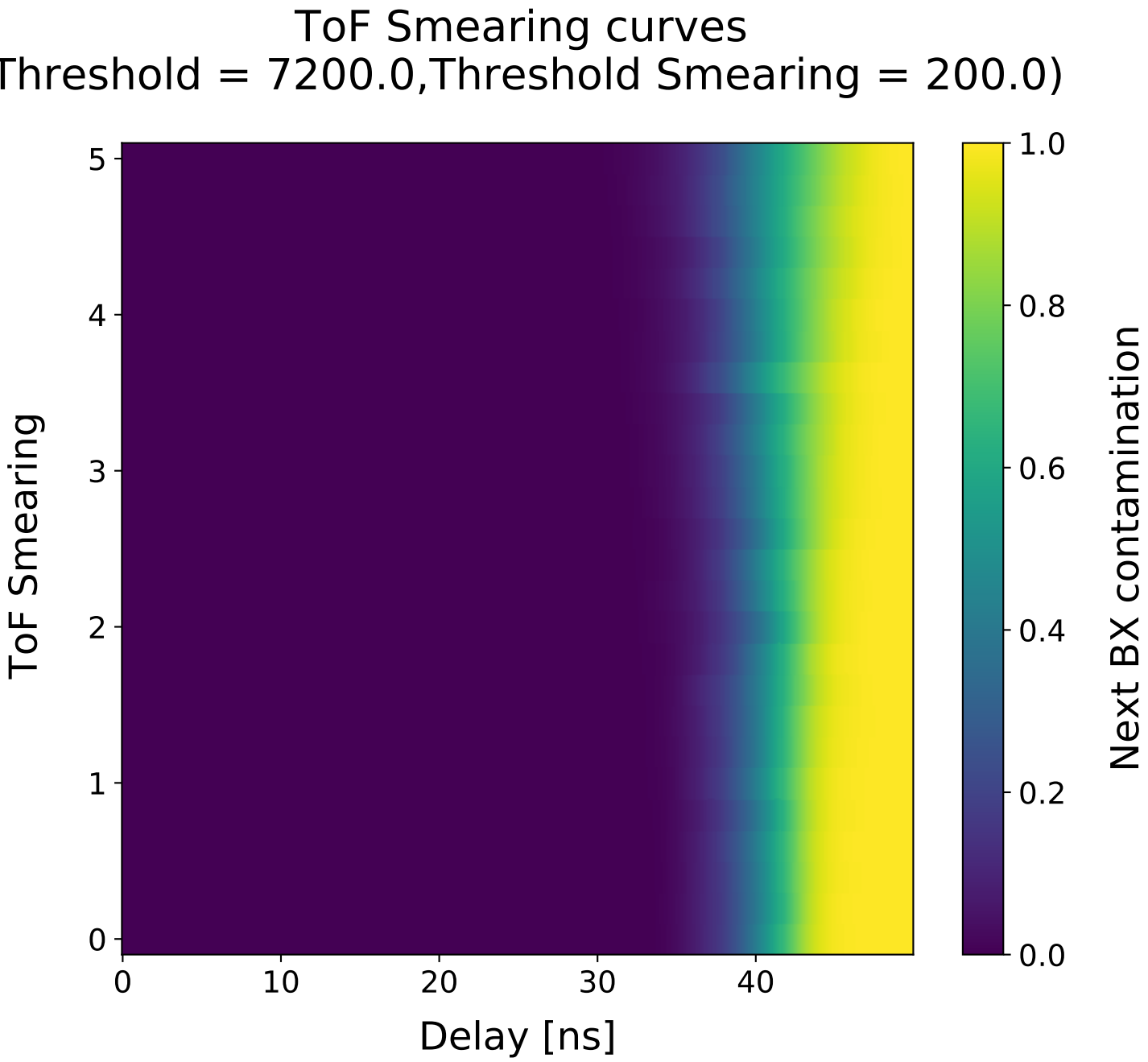

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

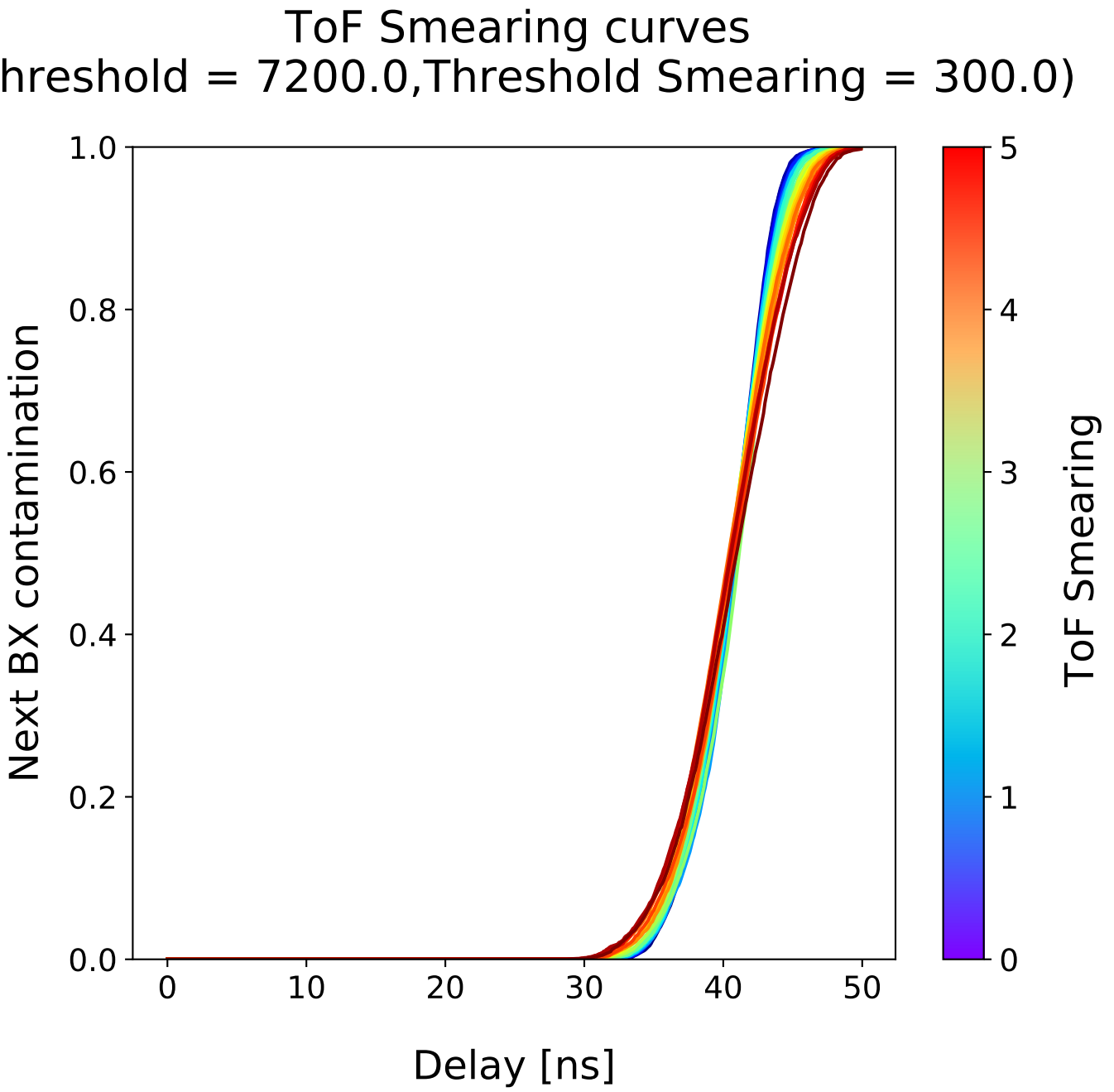

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

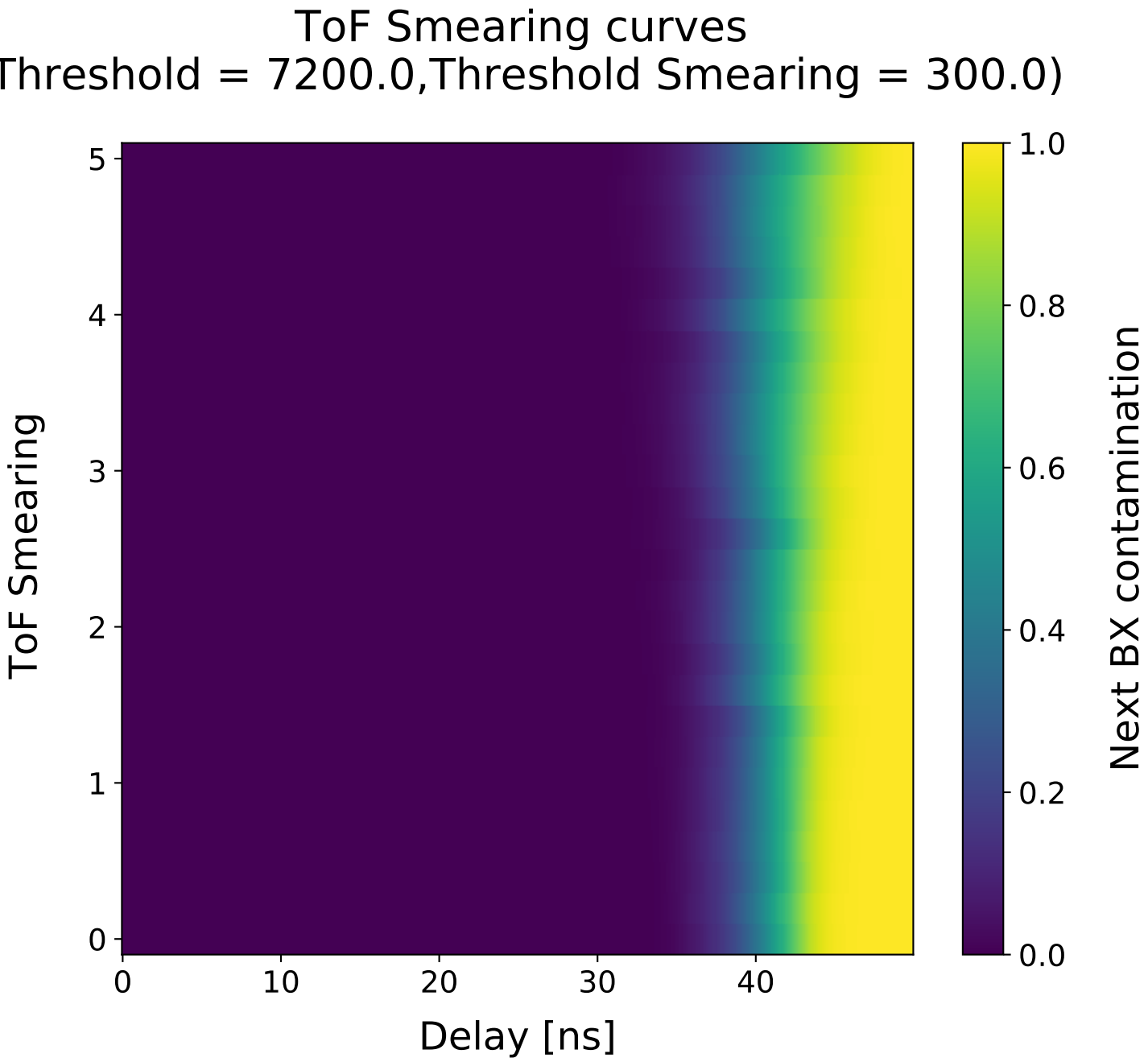

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

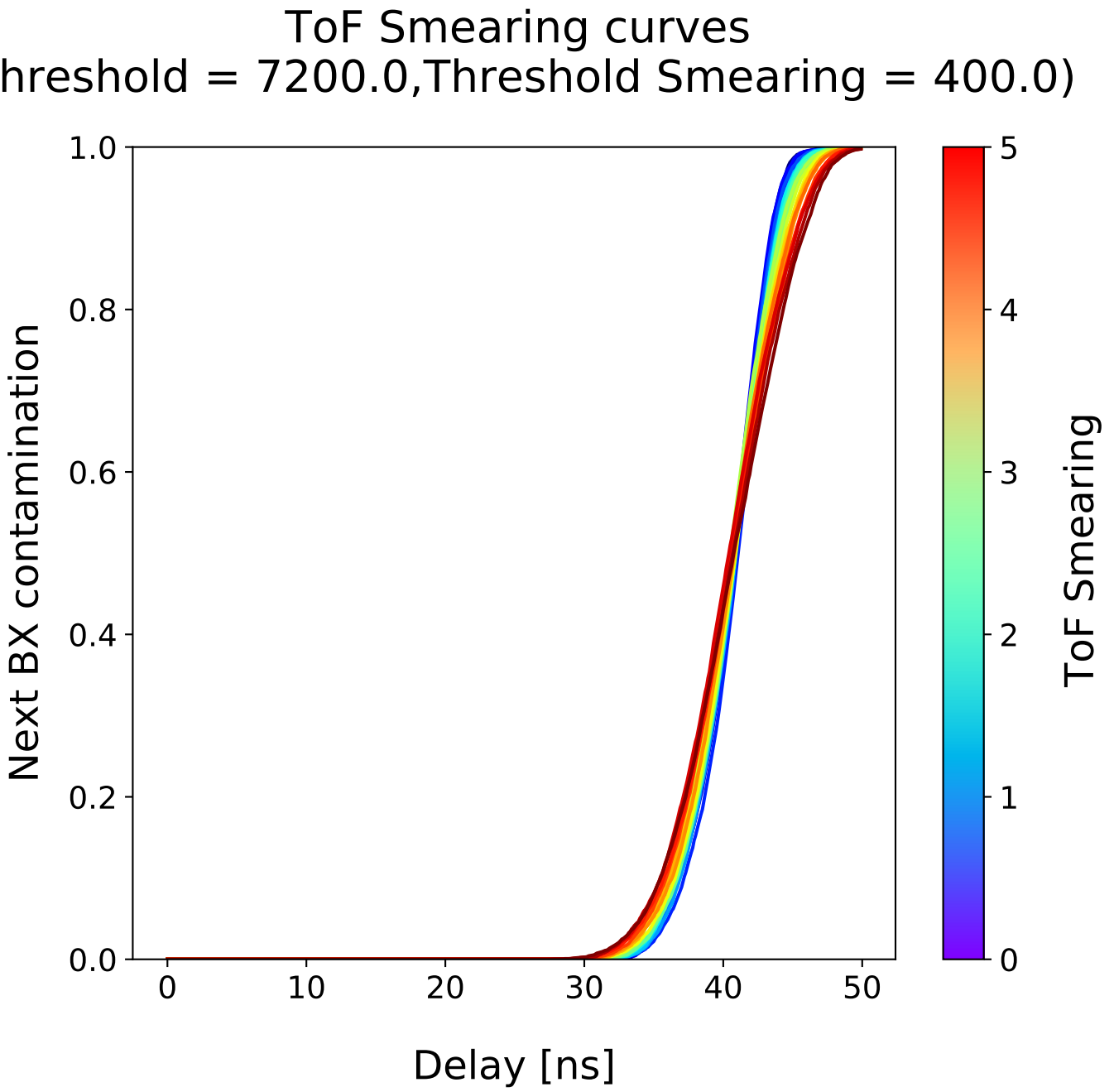

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

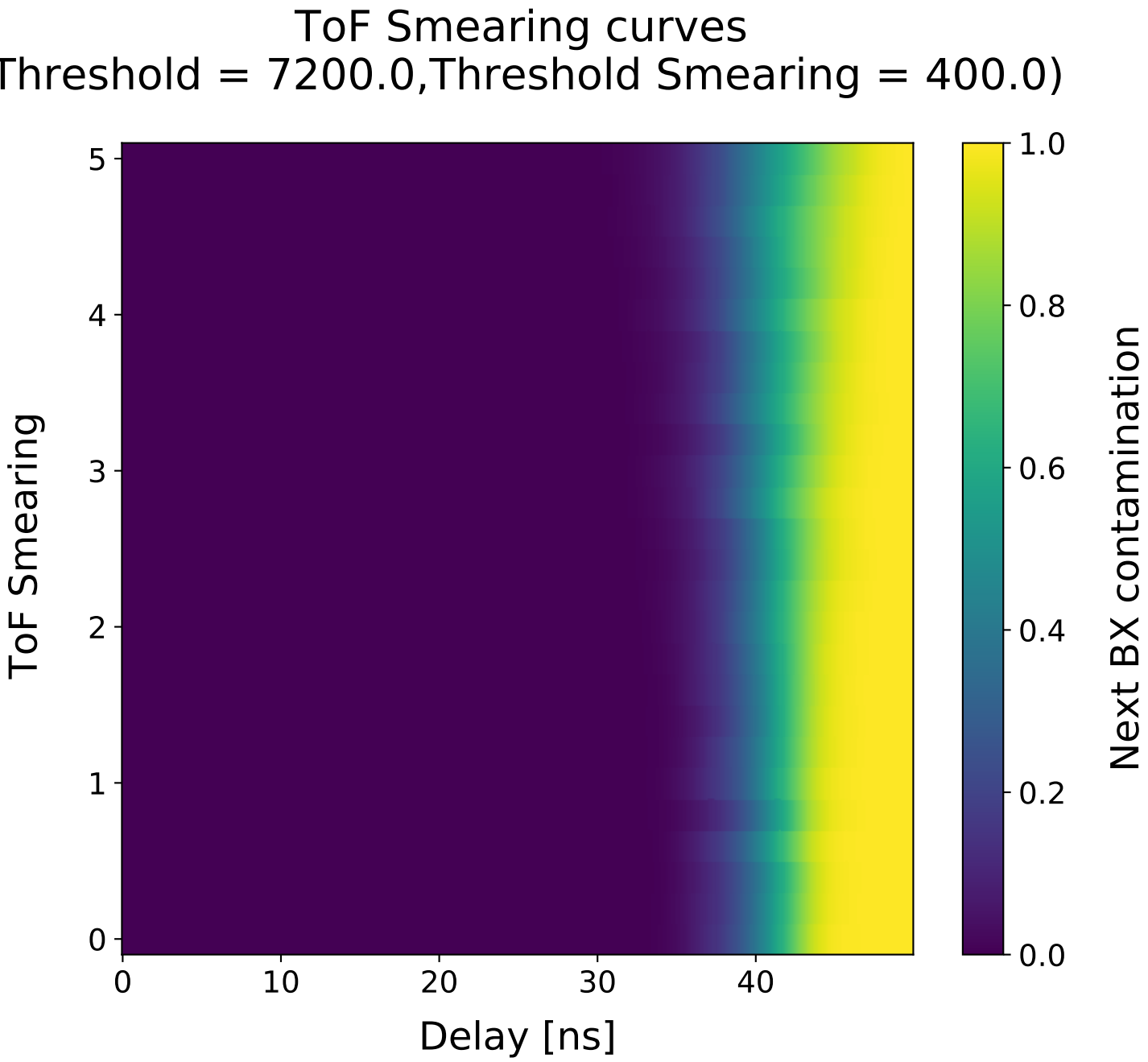

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

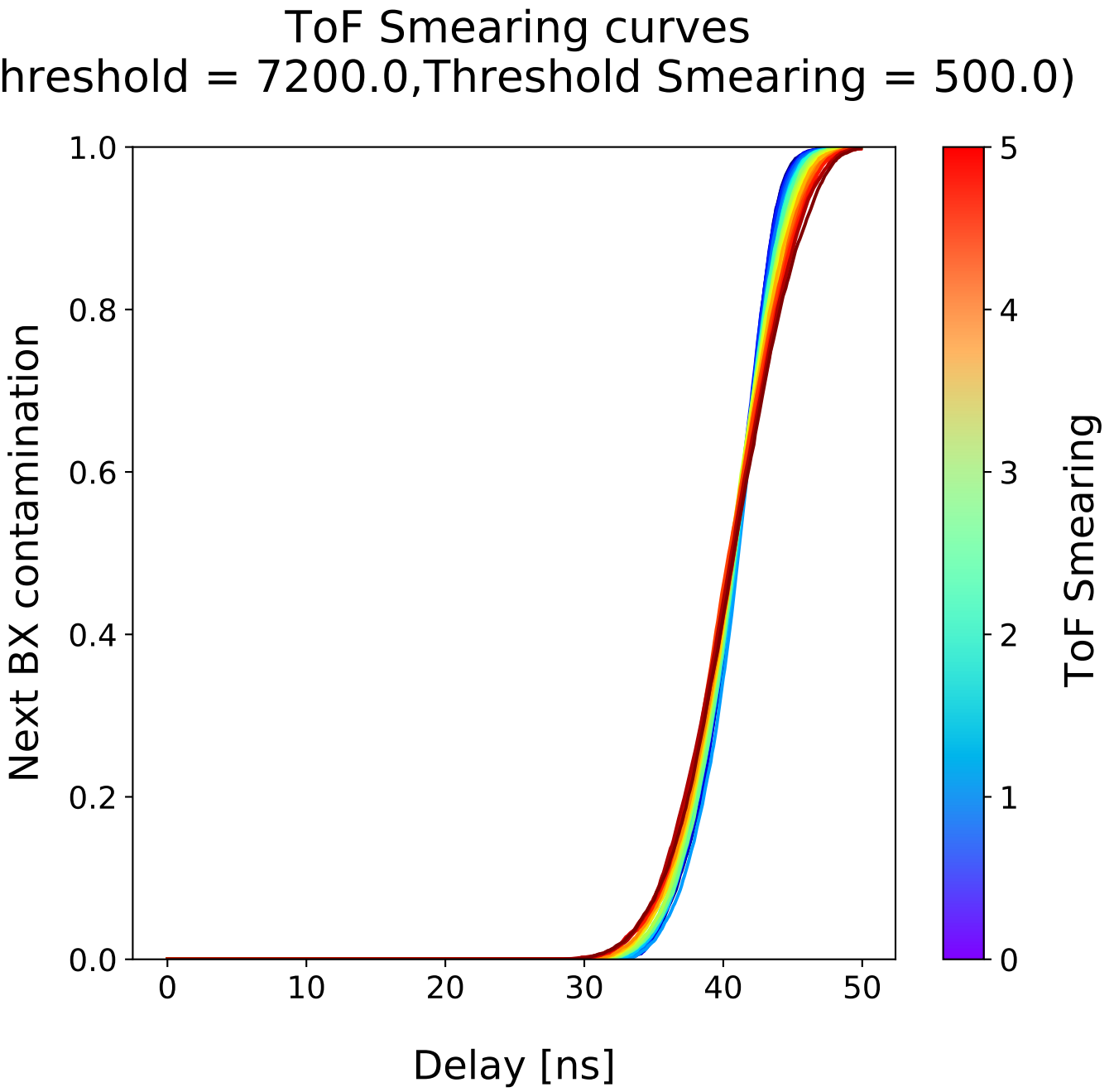

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

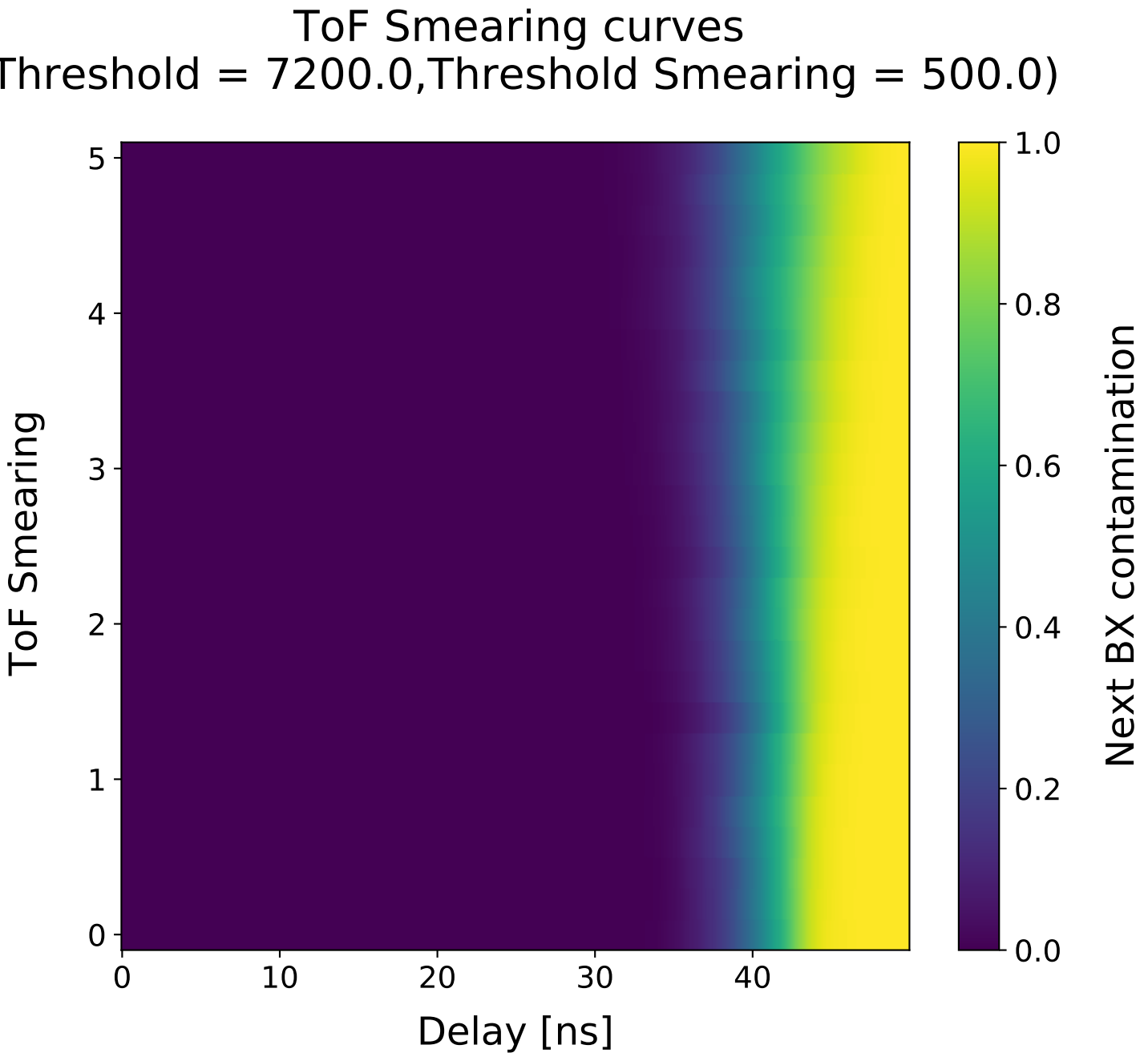

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

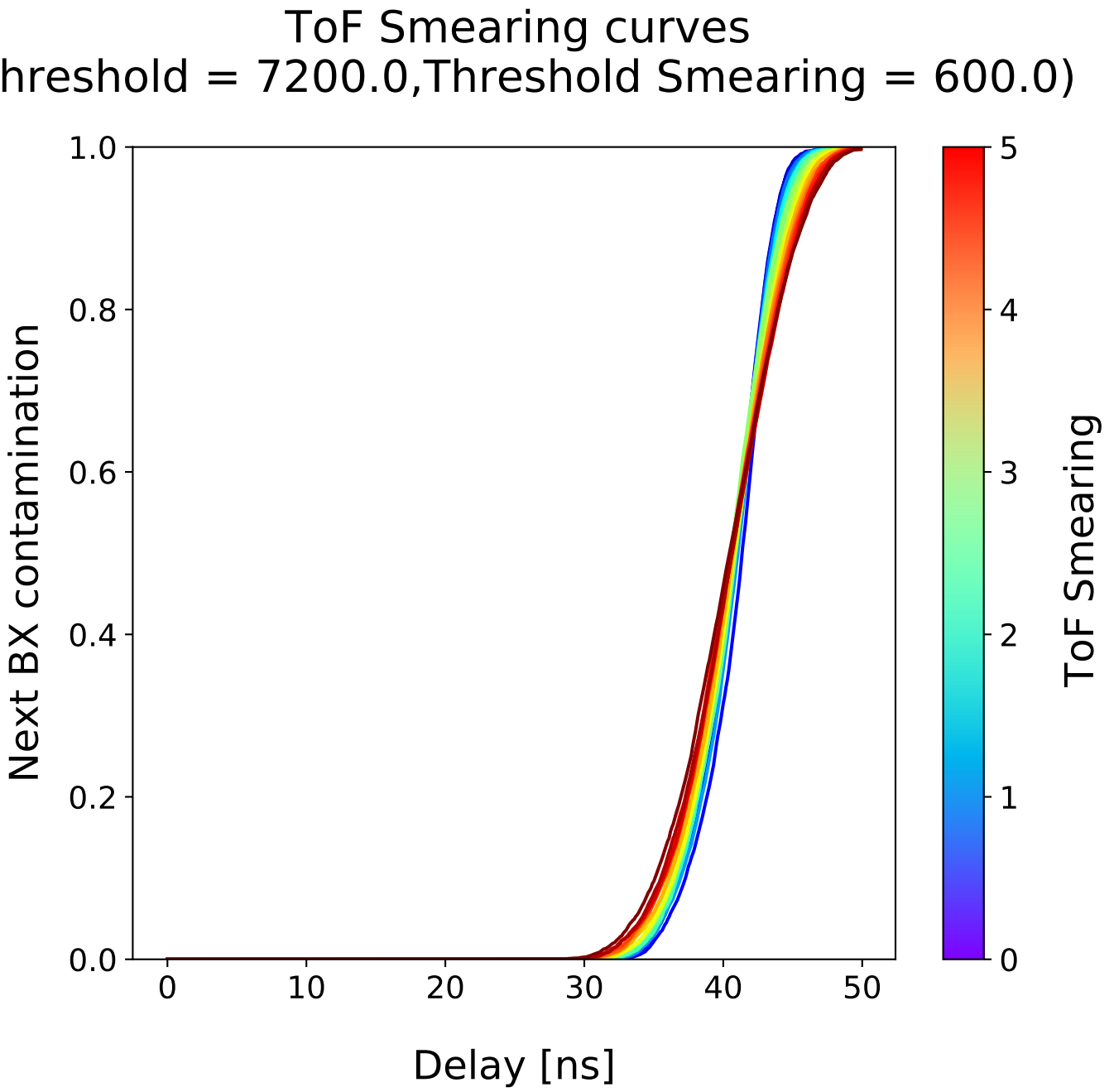

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

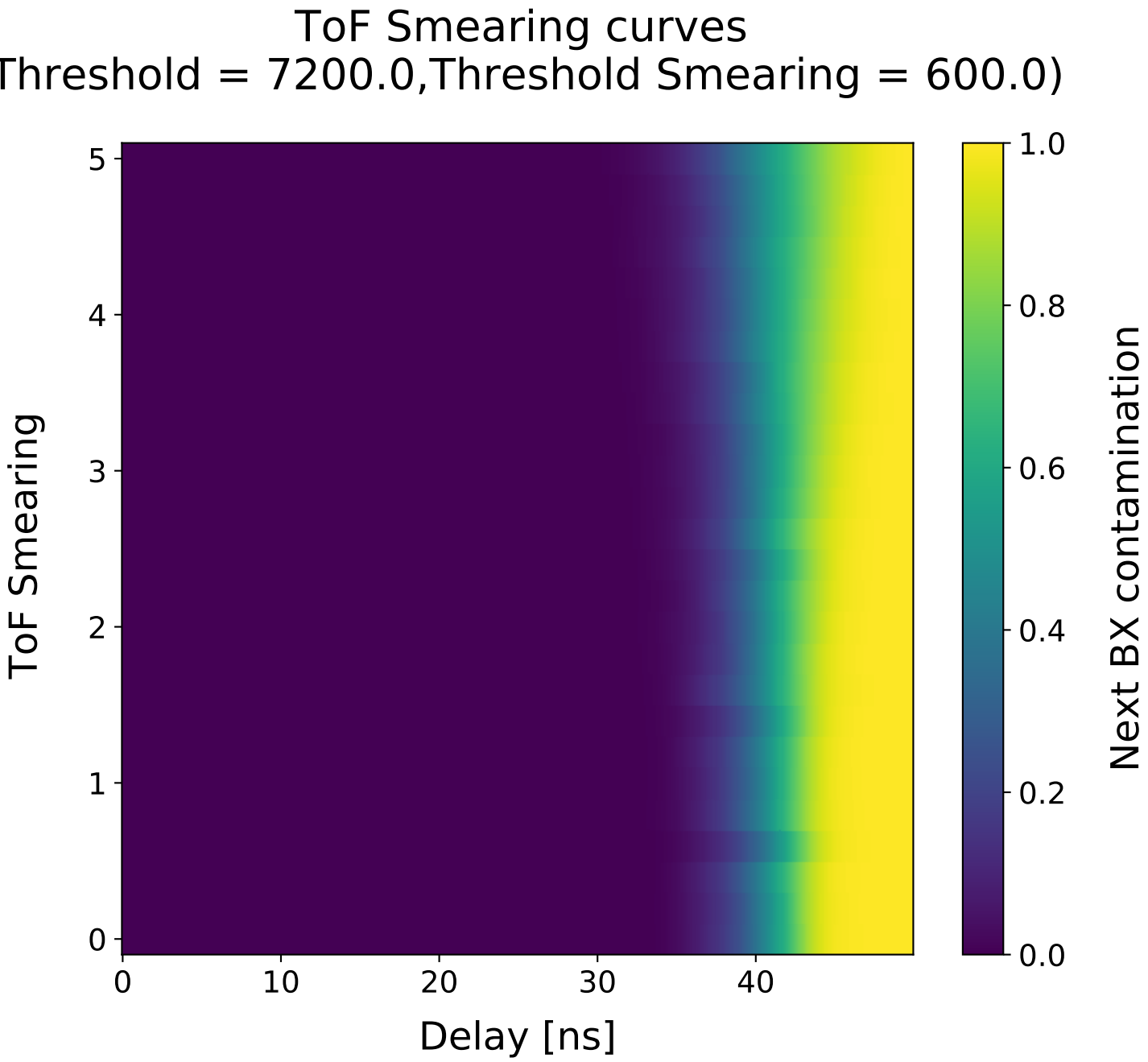

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

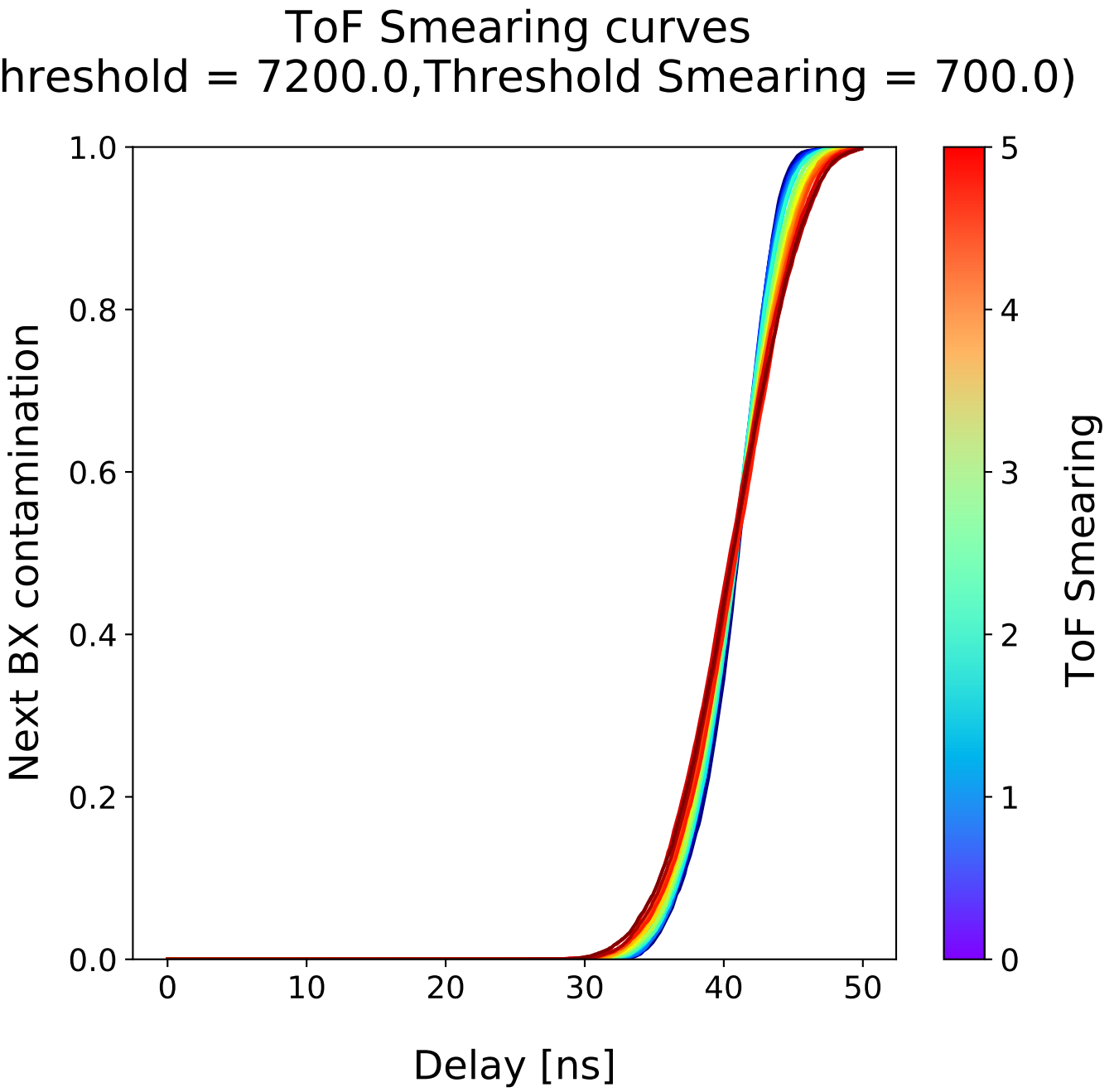

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

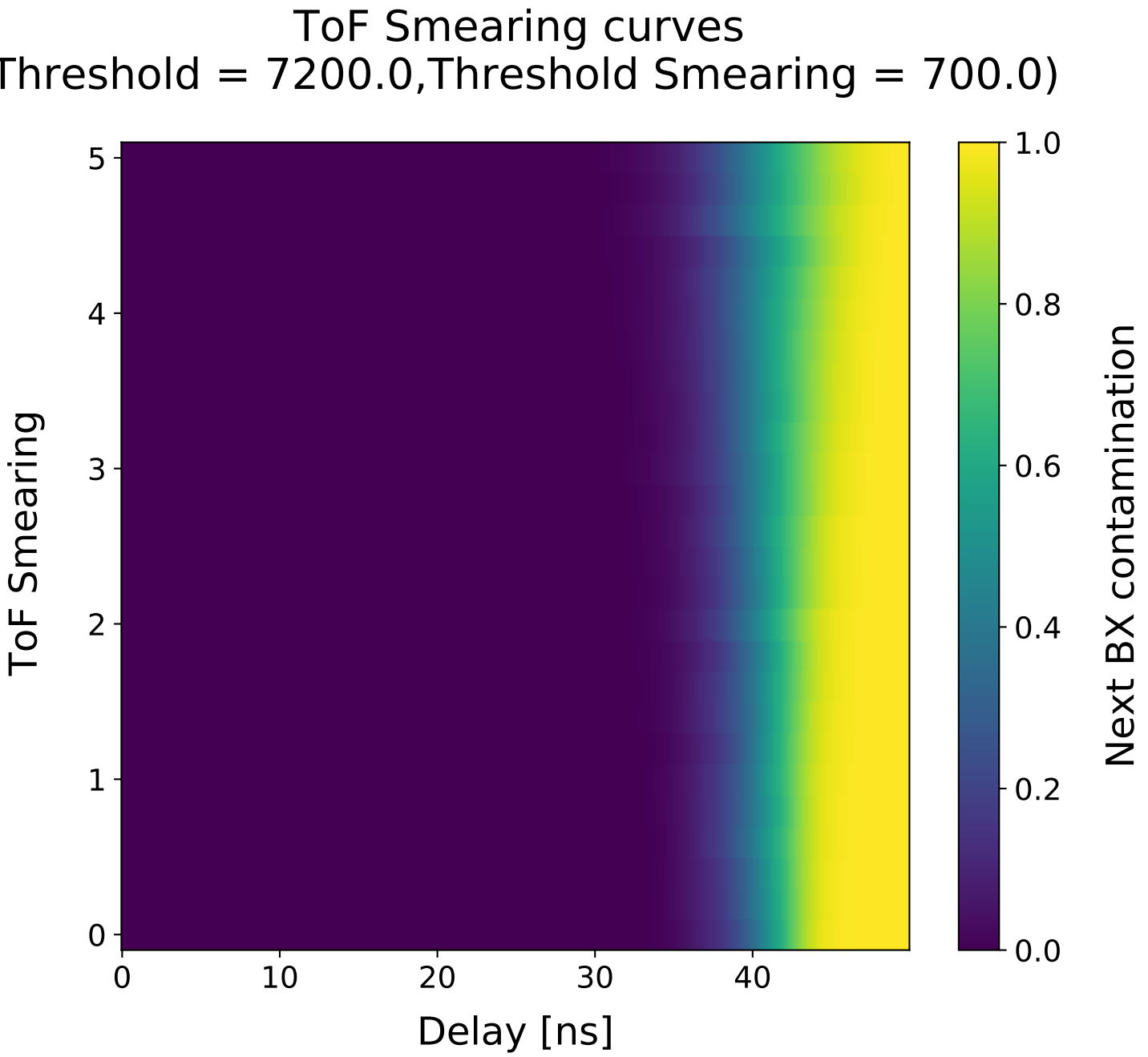

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

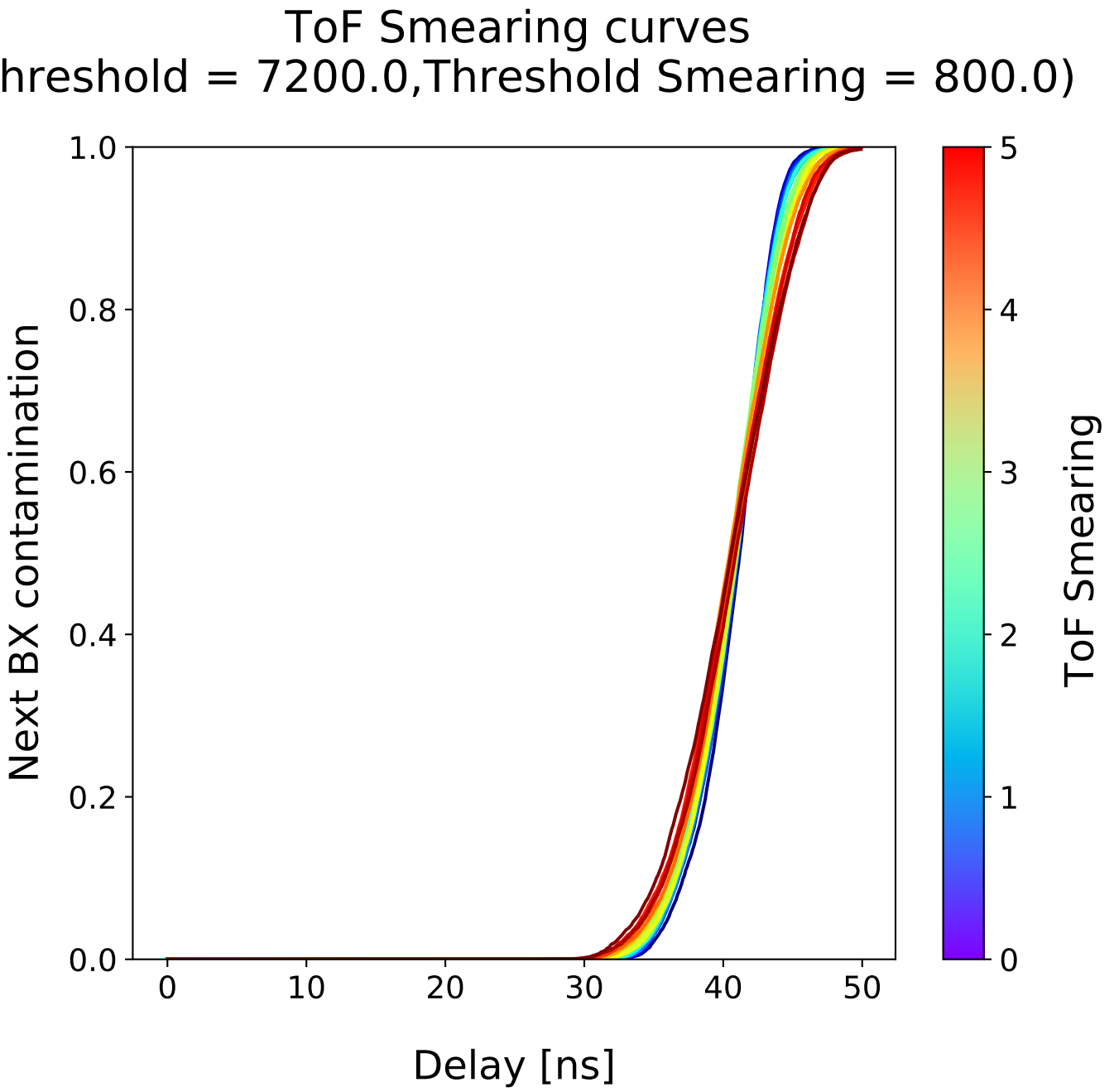

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

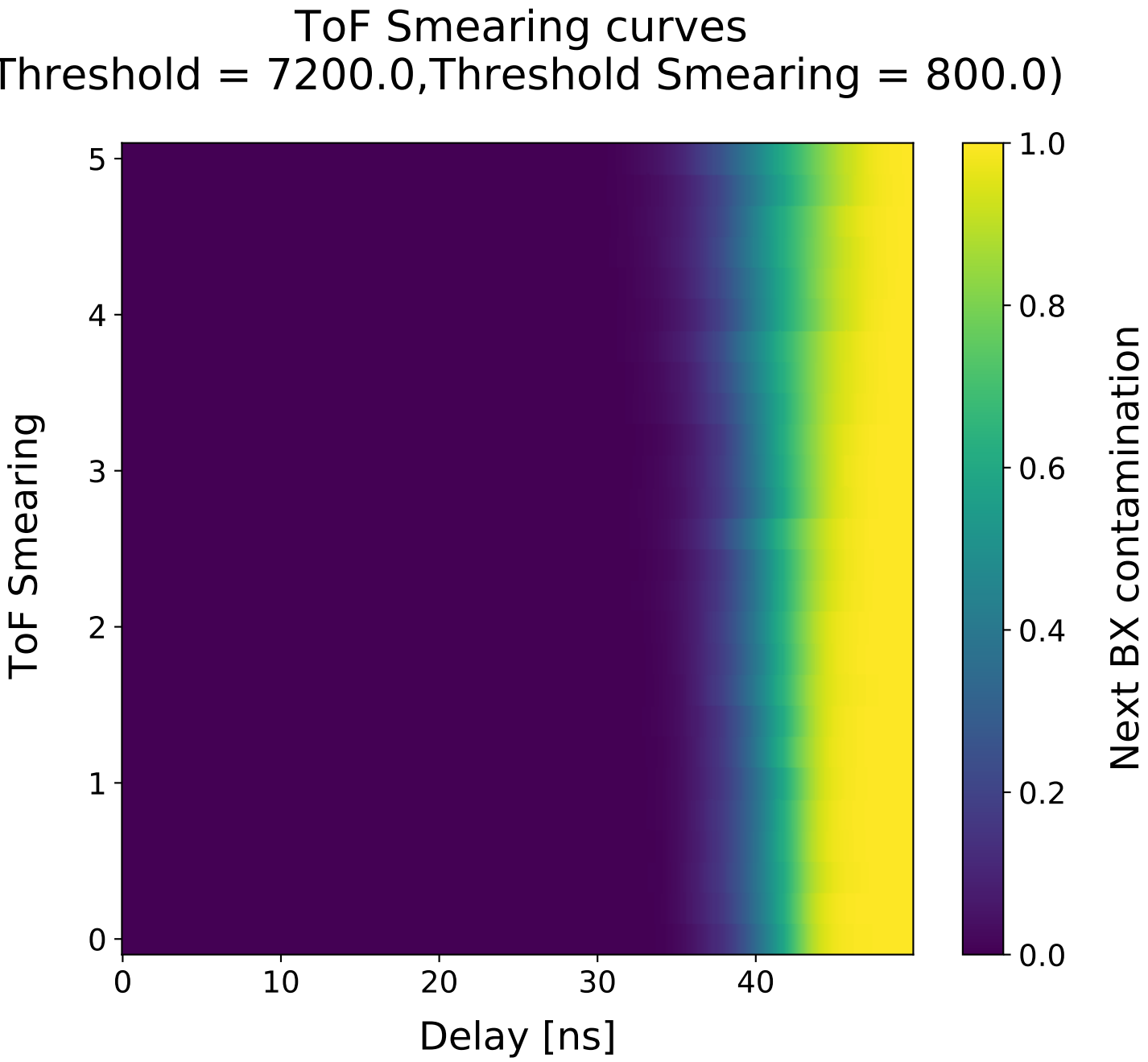

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

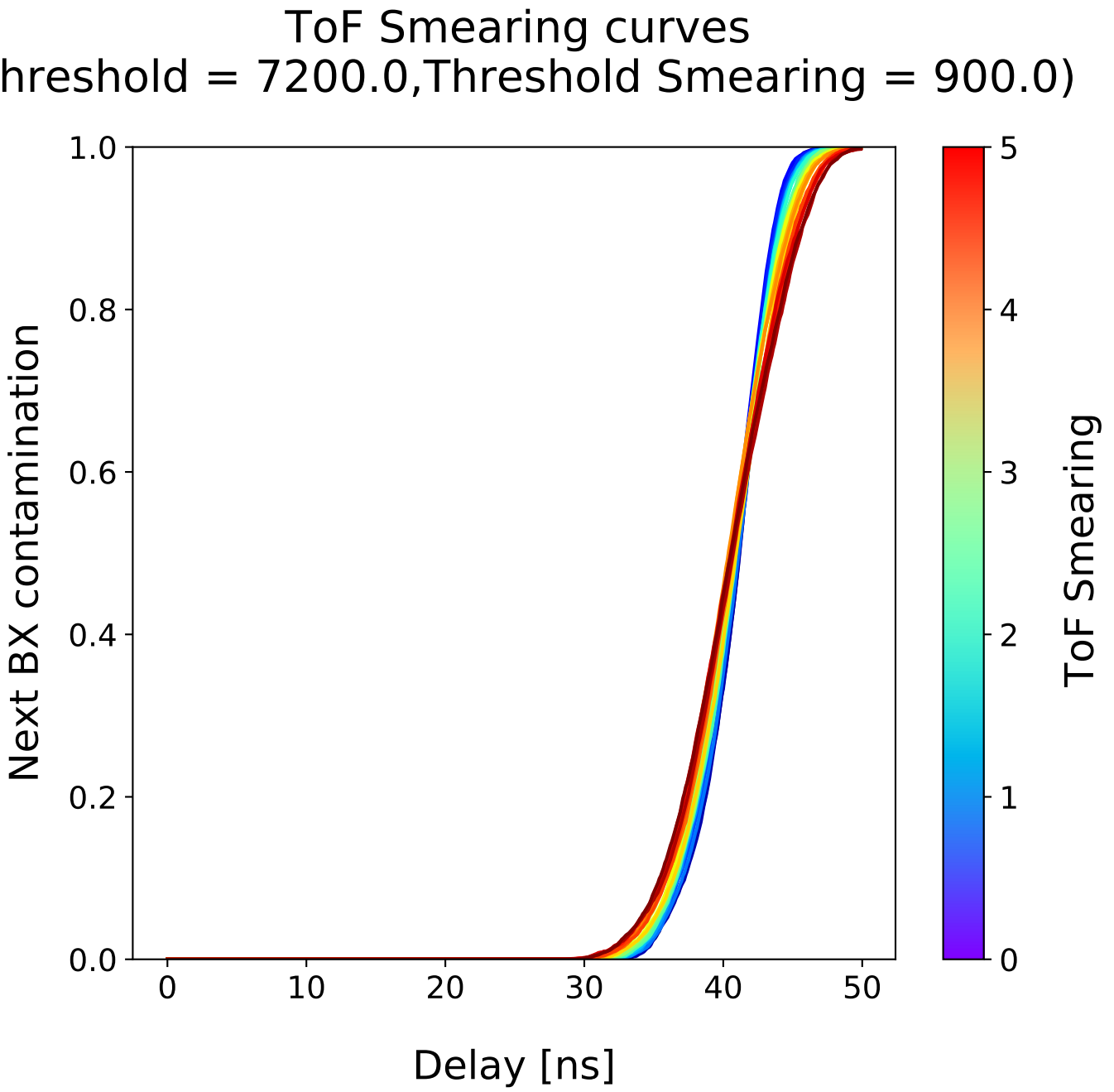

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

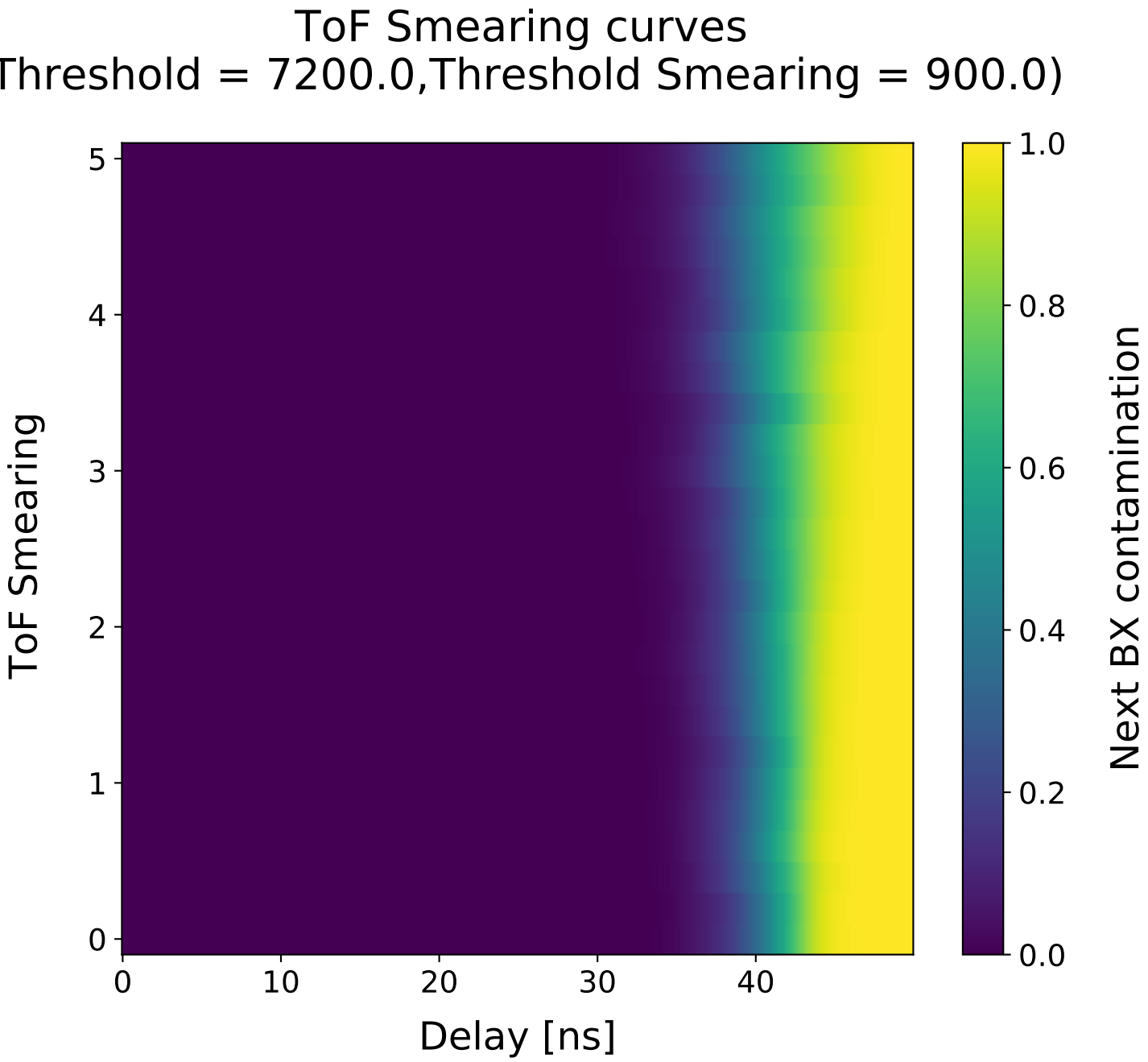

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

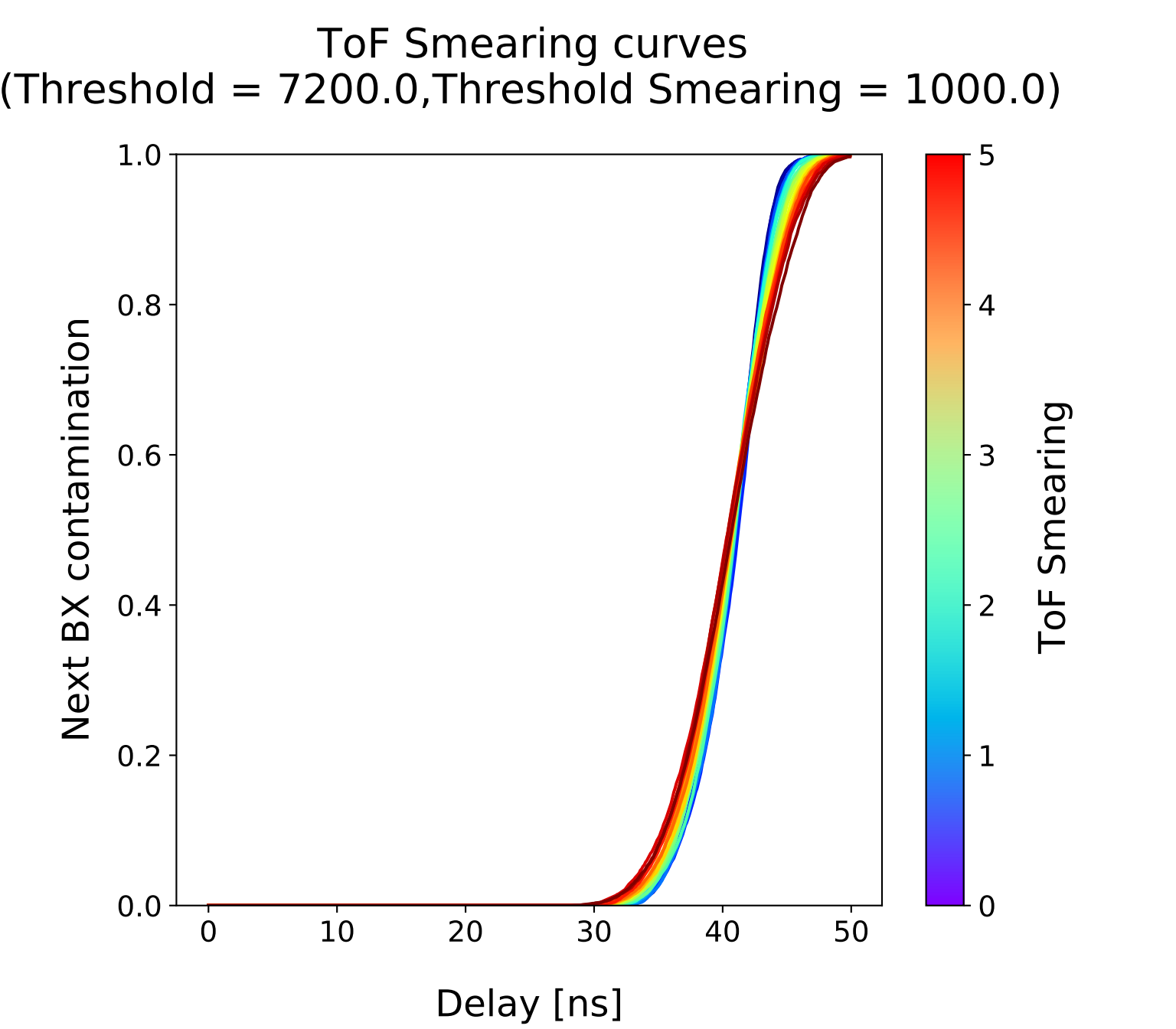

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

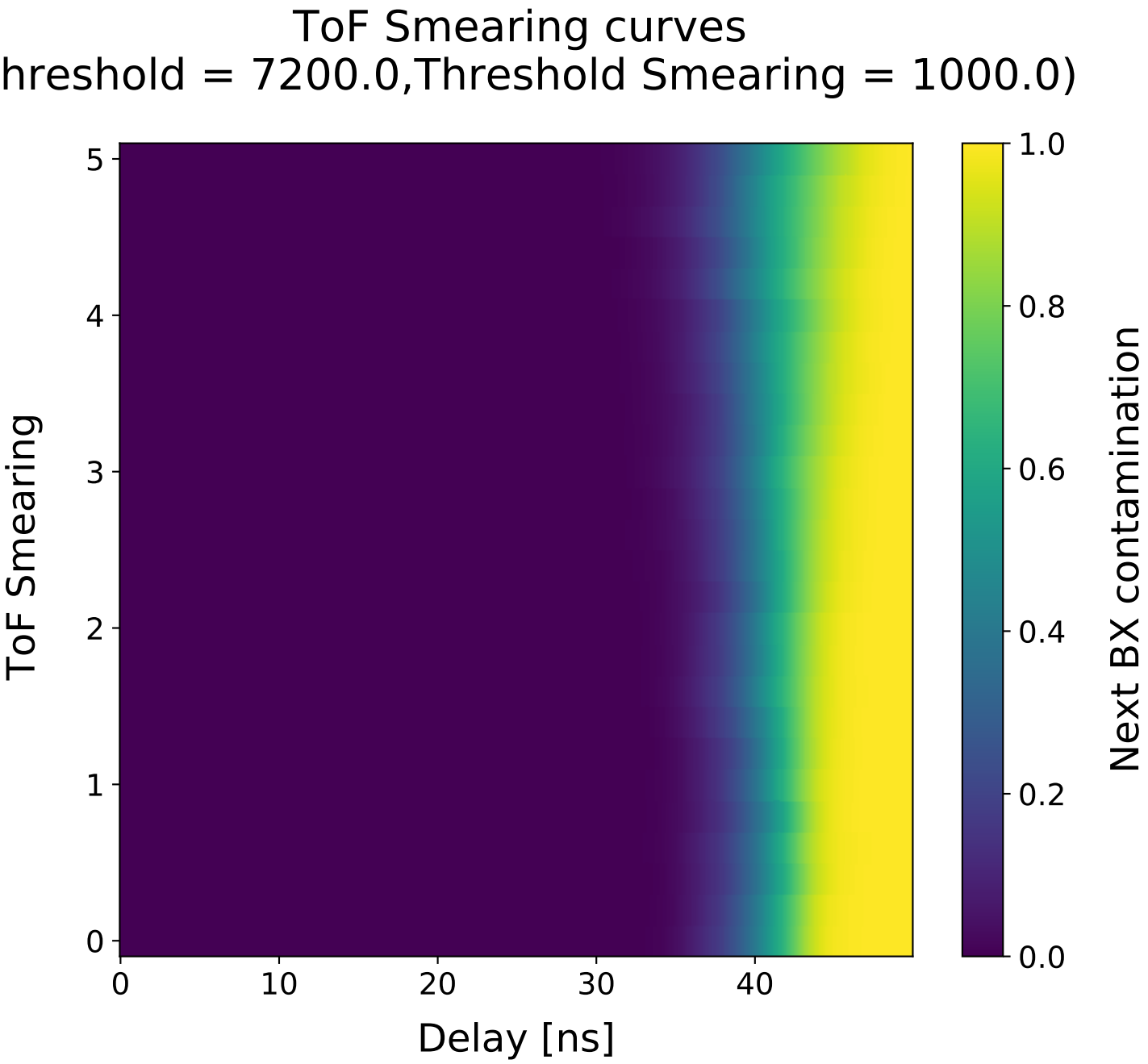

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

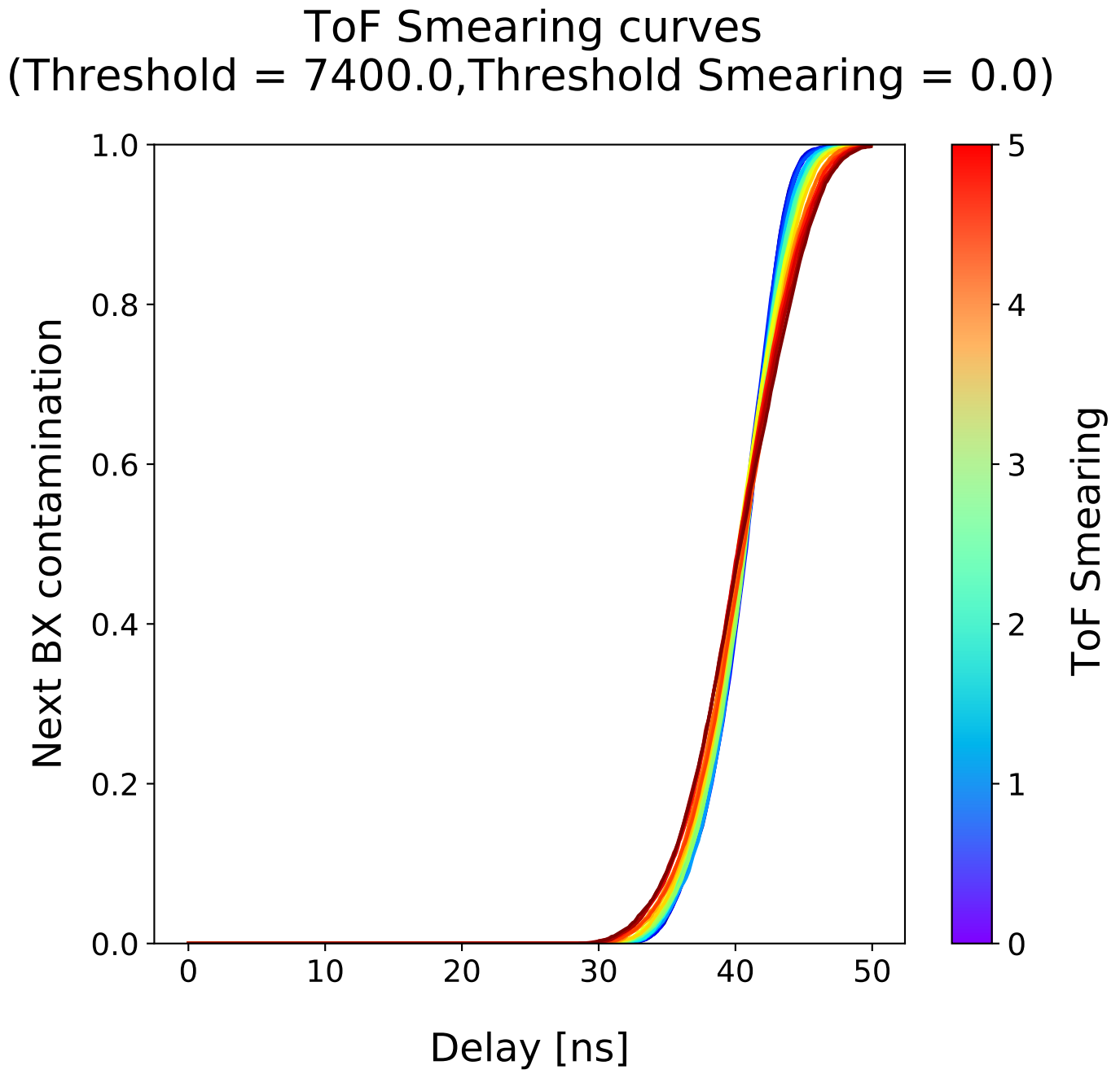

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

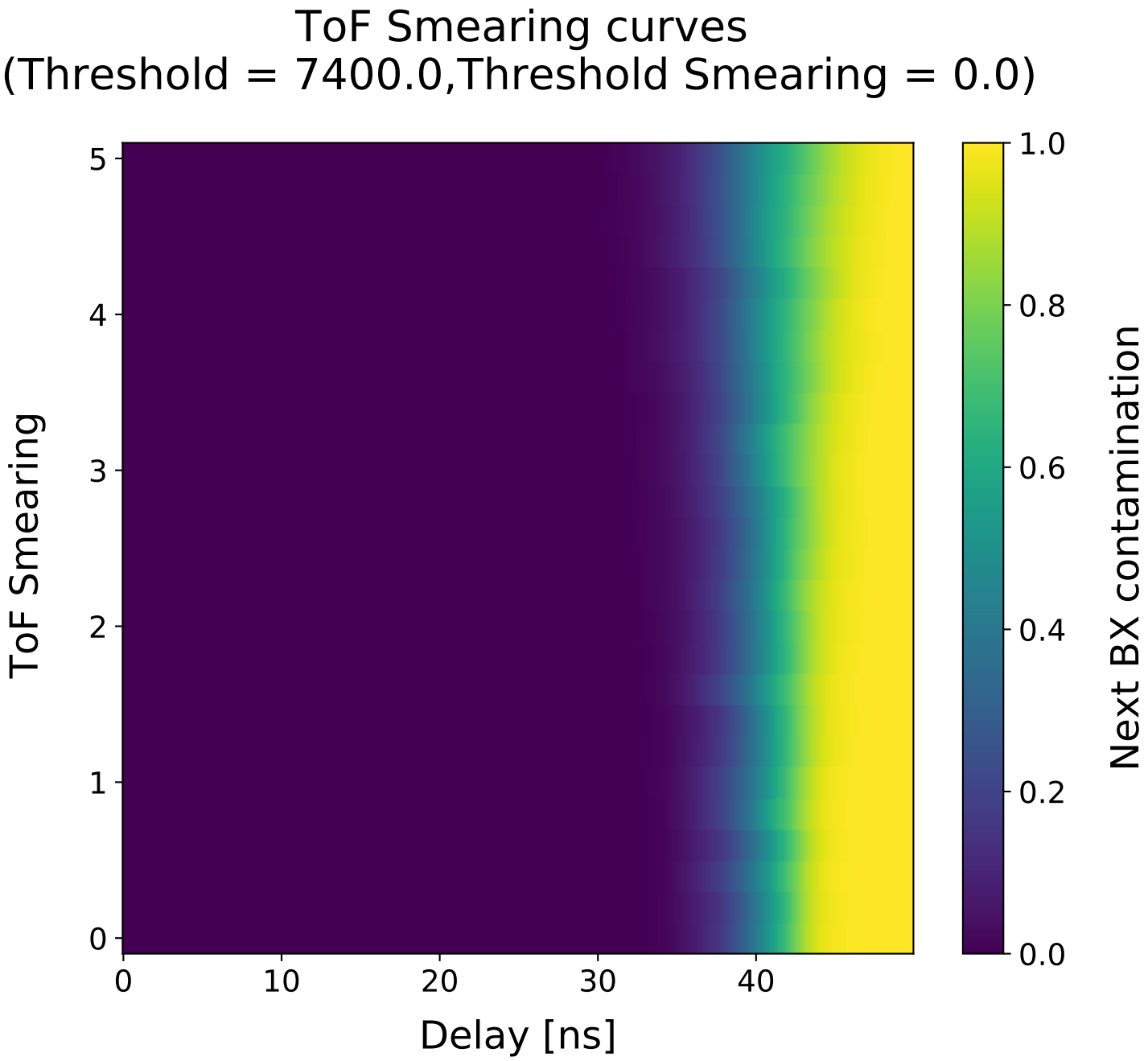

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

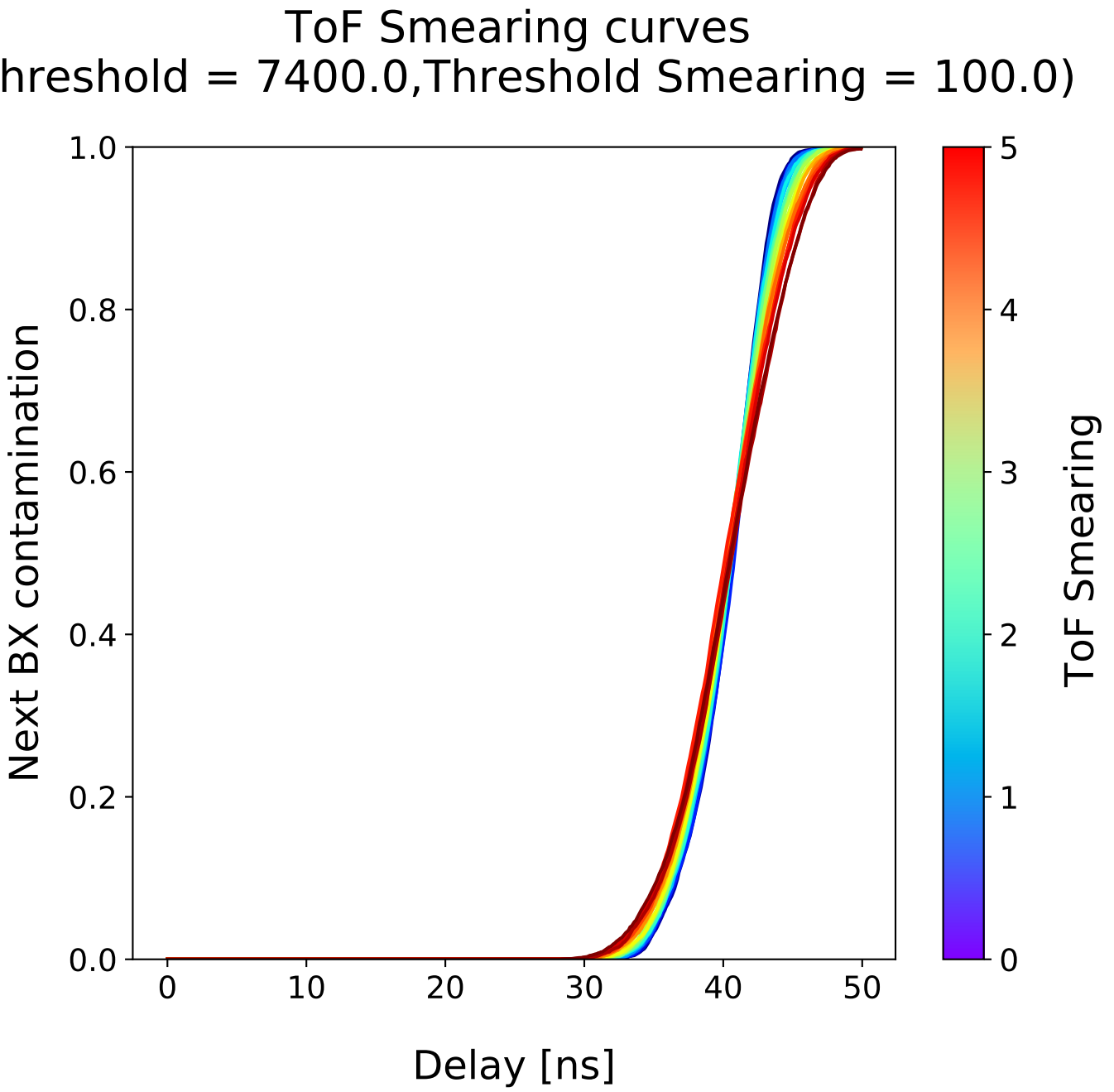

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

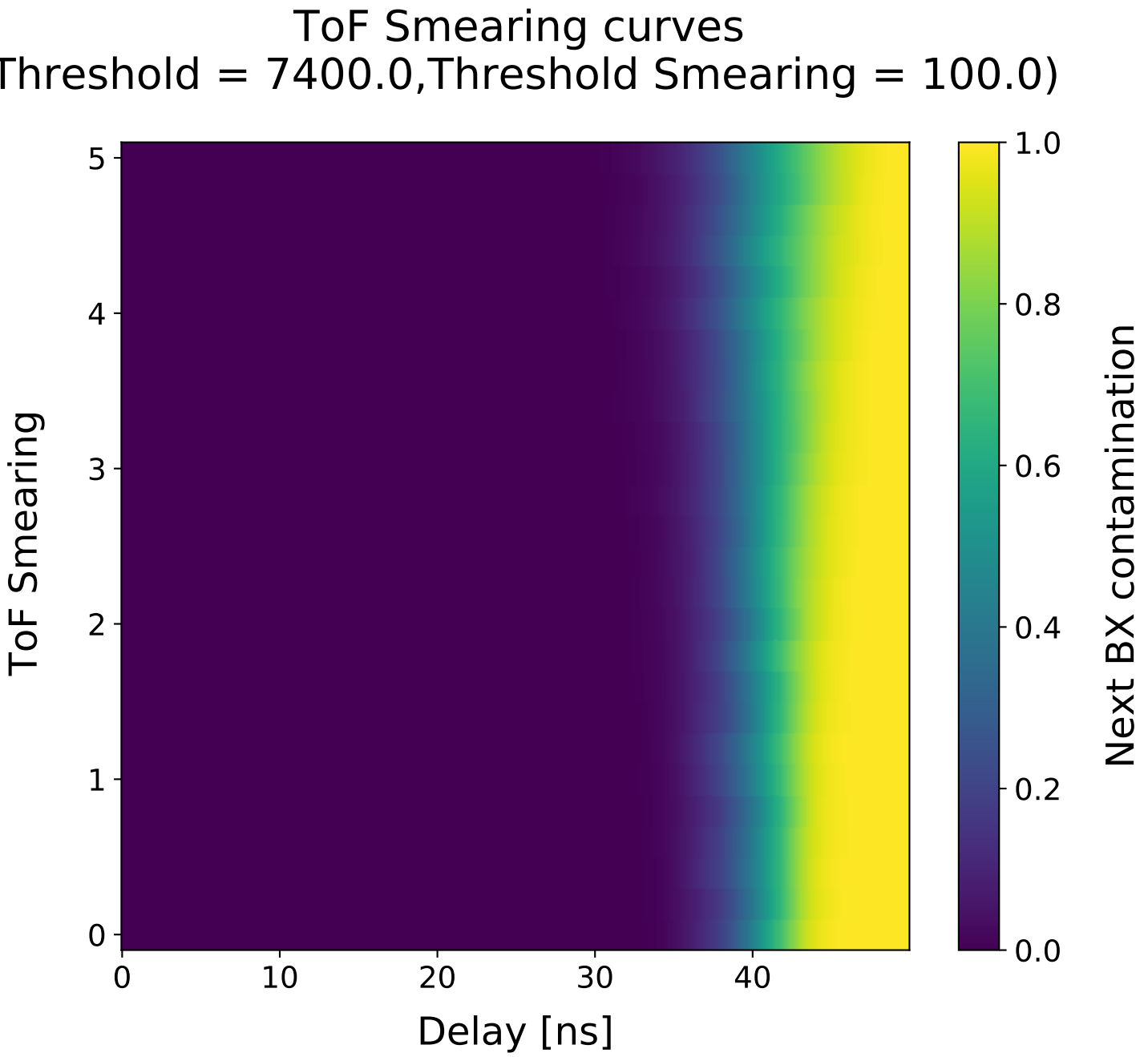

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

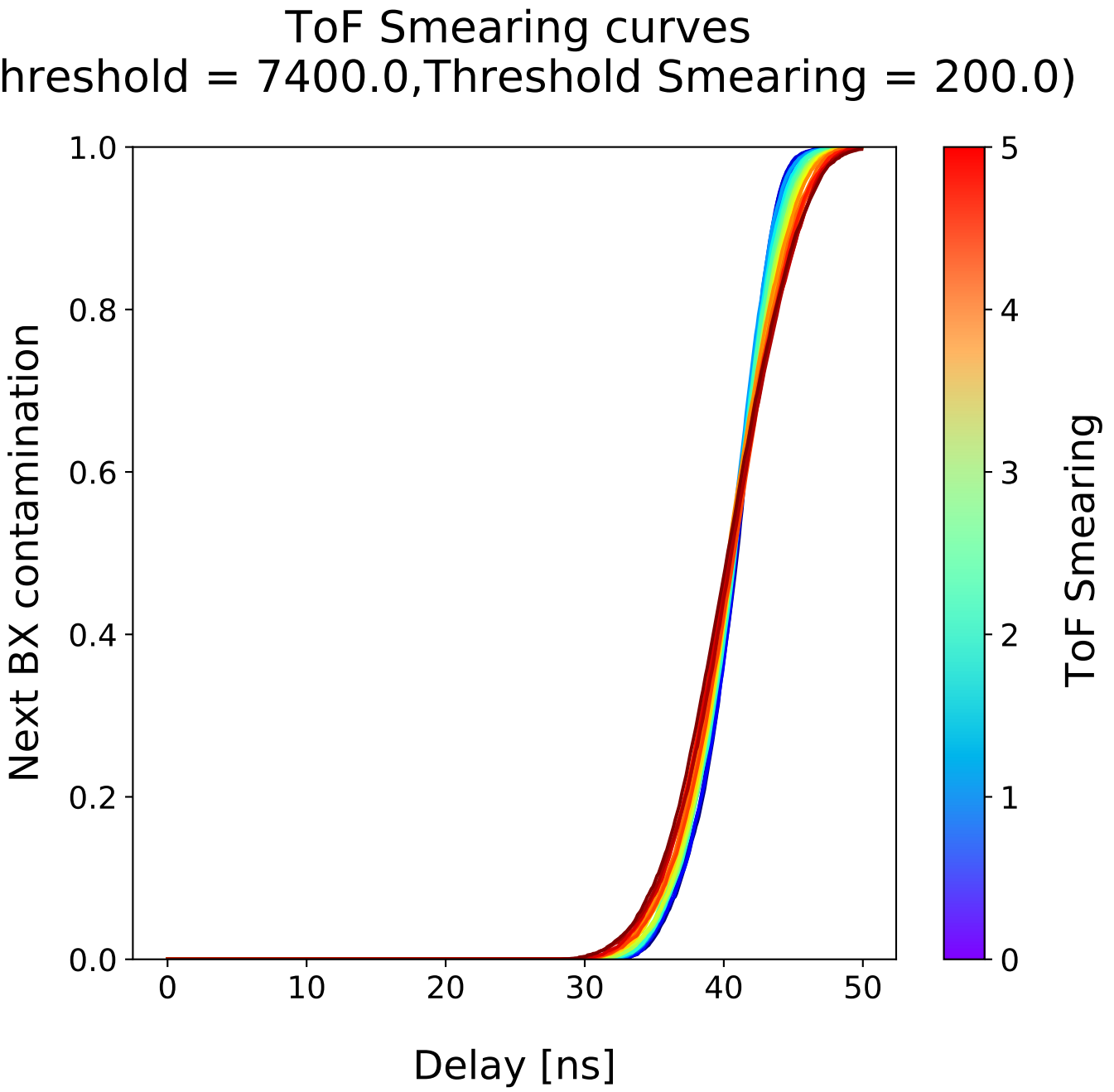

ToF Smearing curves
(Threshold = 7200.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

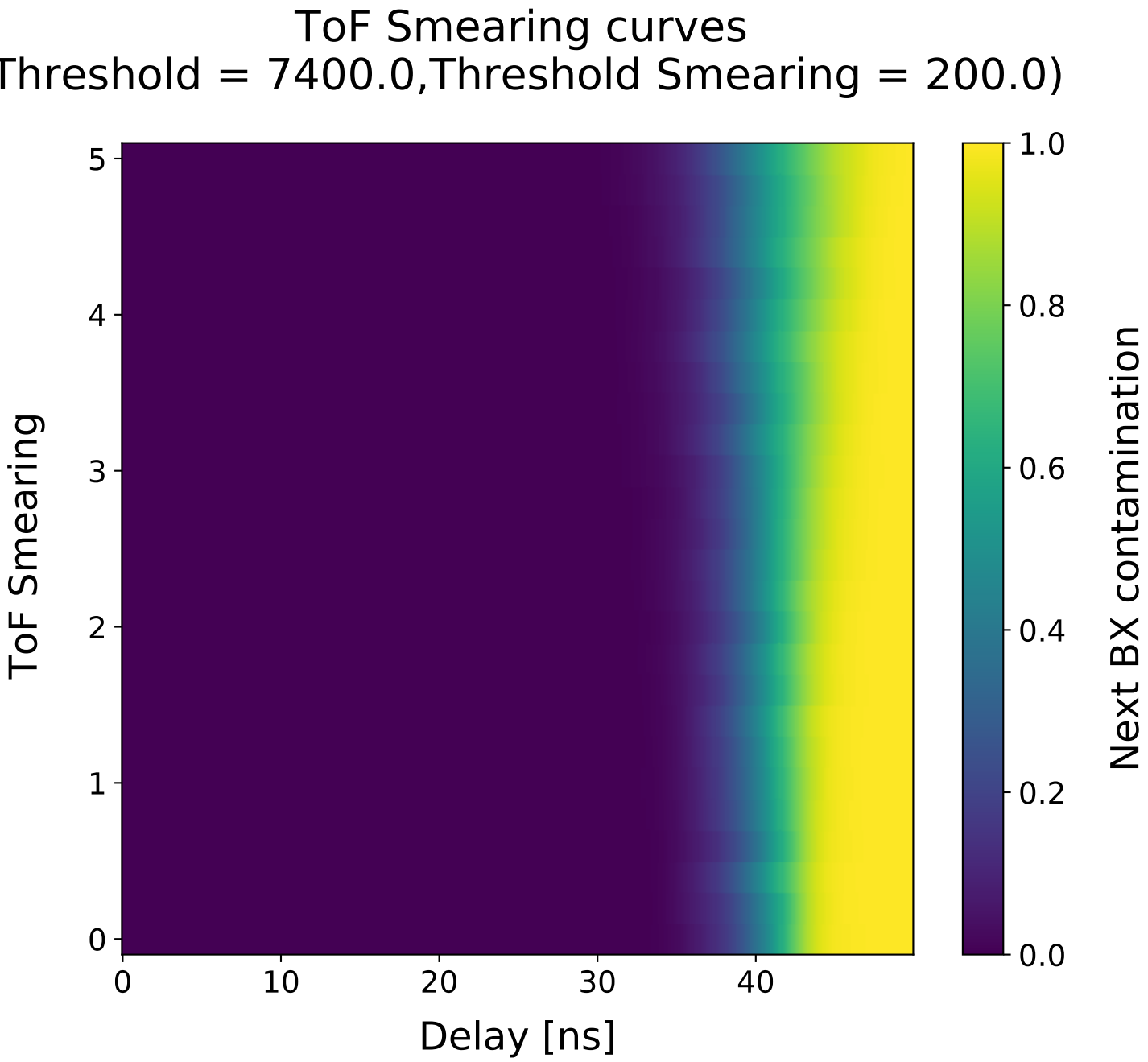

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

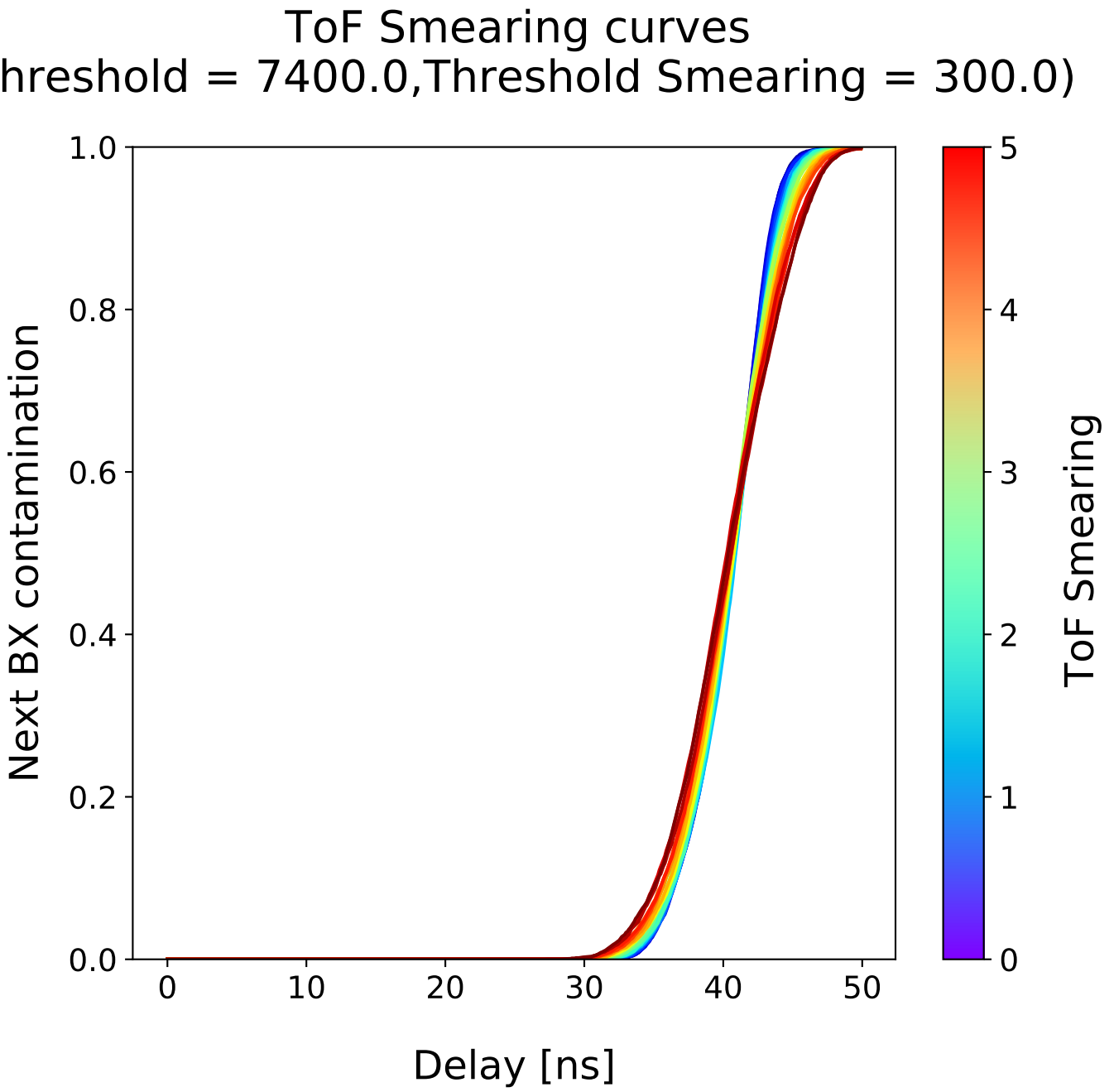

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

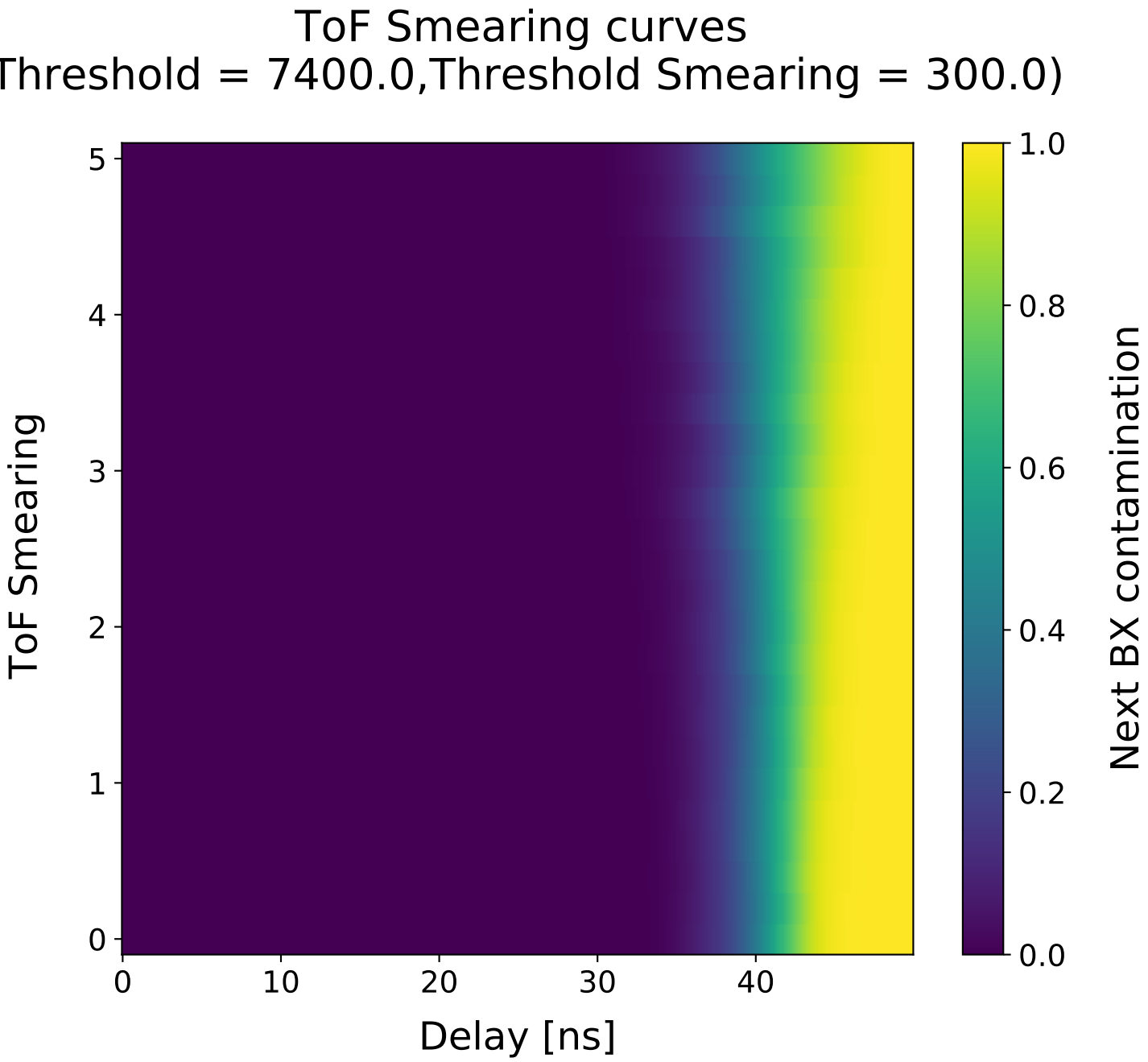

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

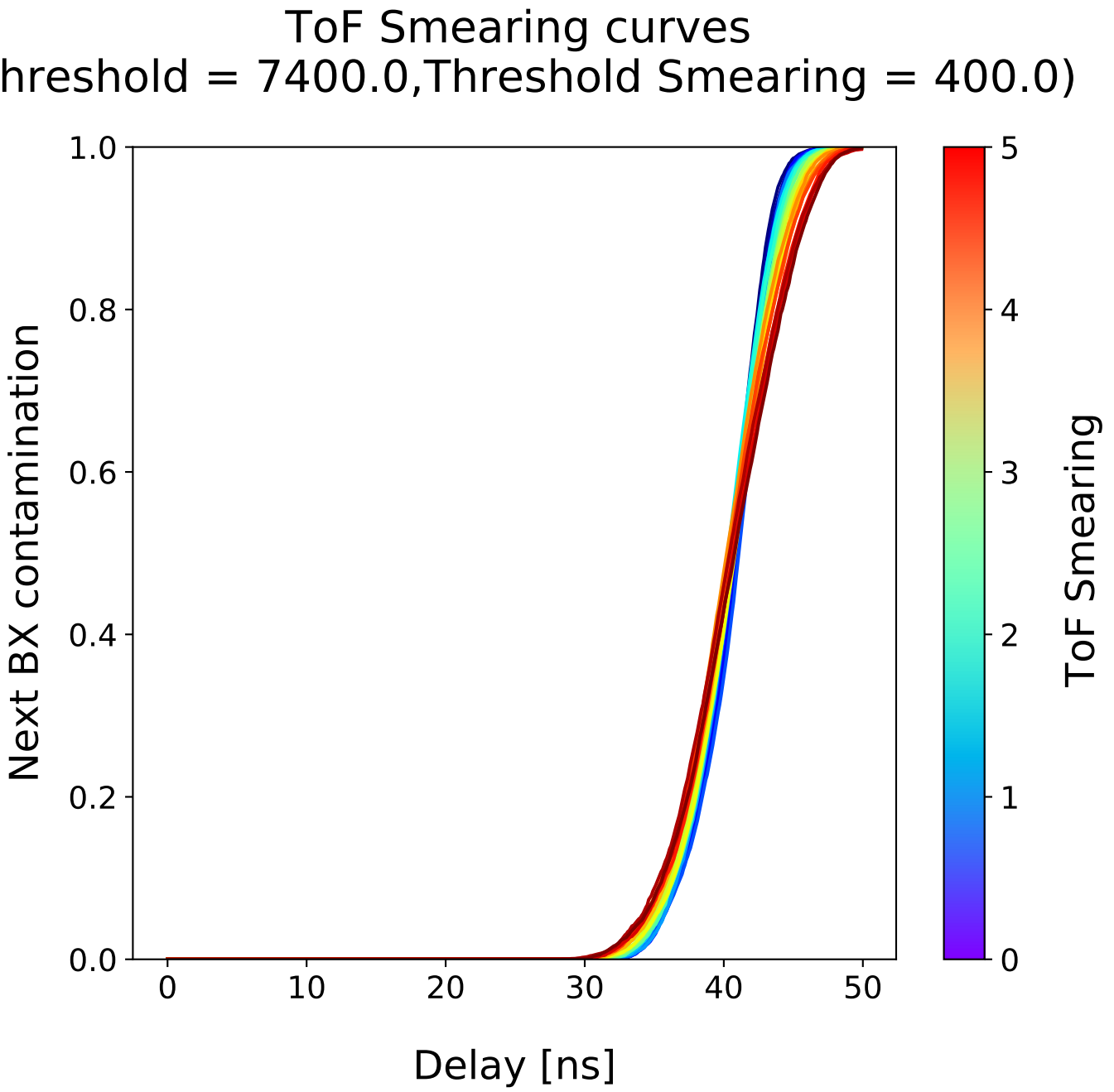

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

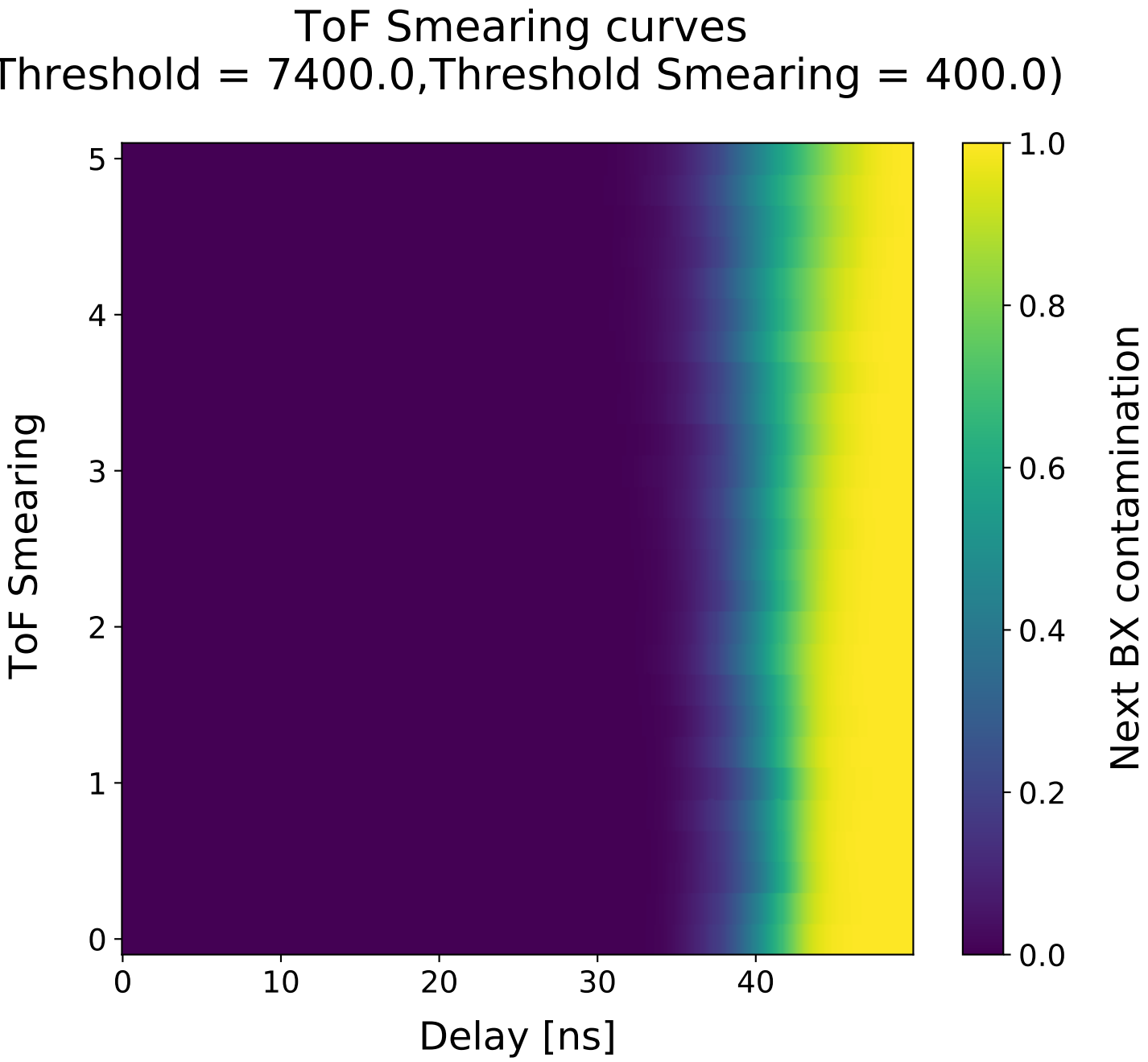

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

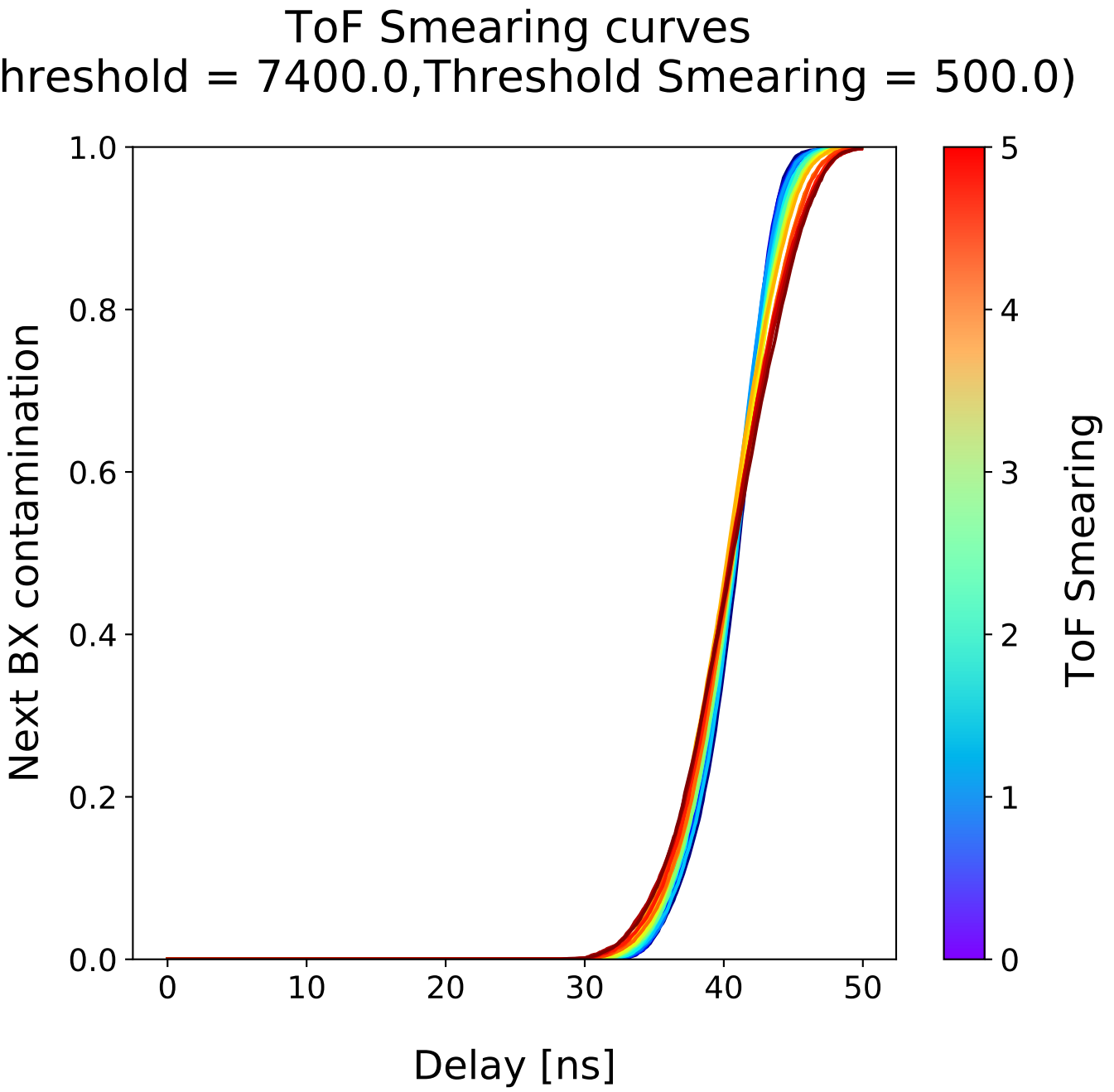

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

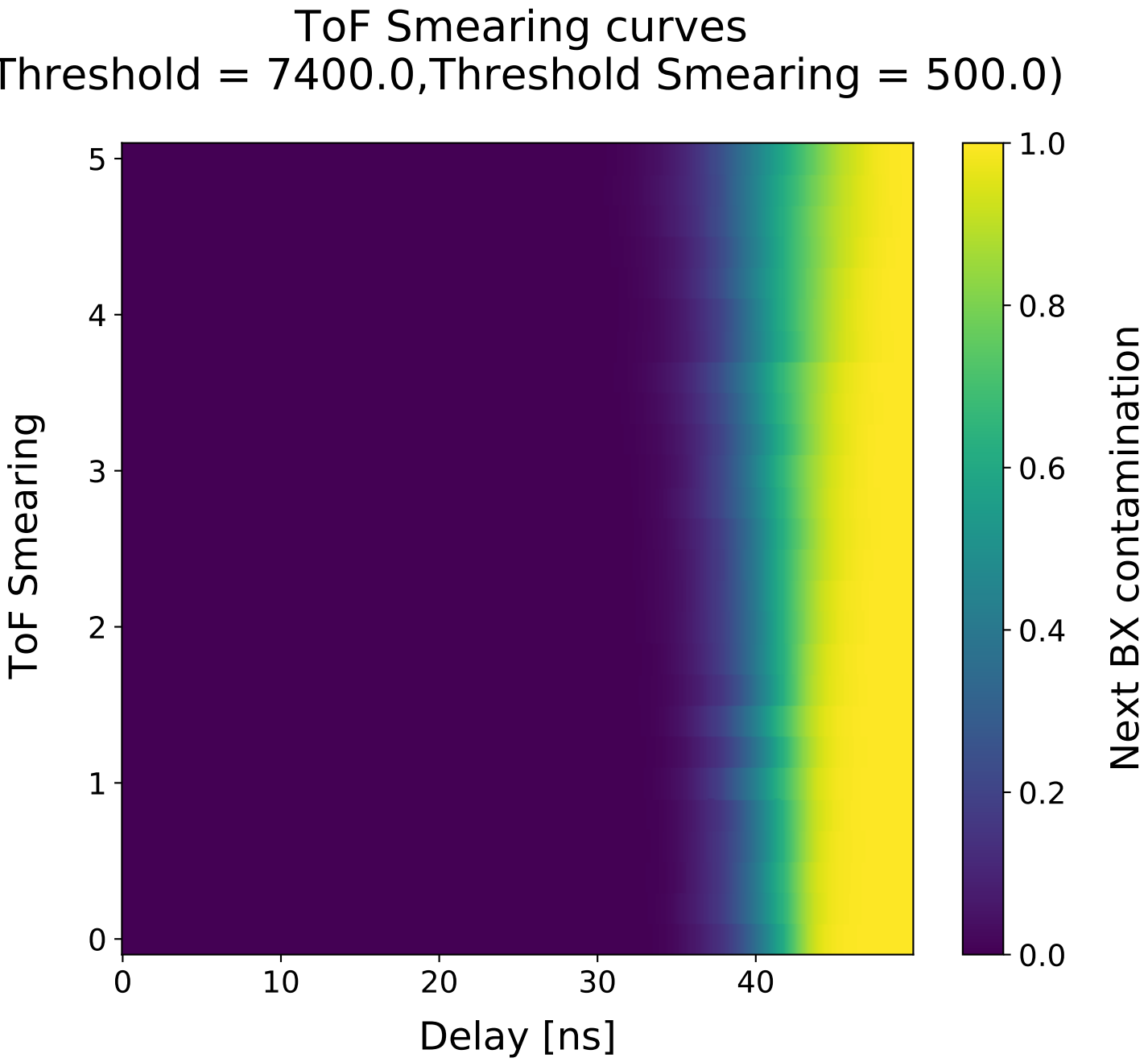

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

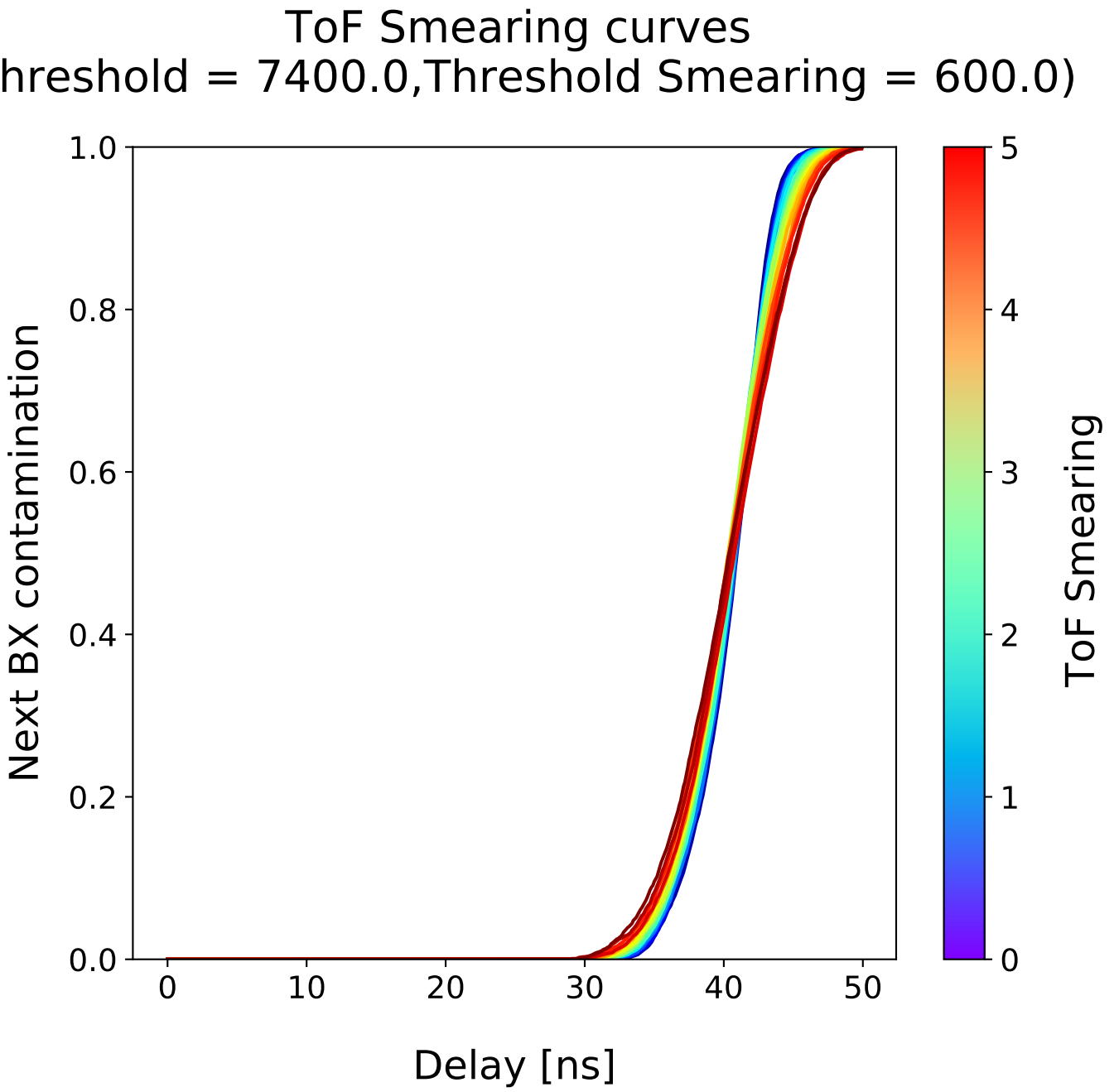

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

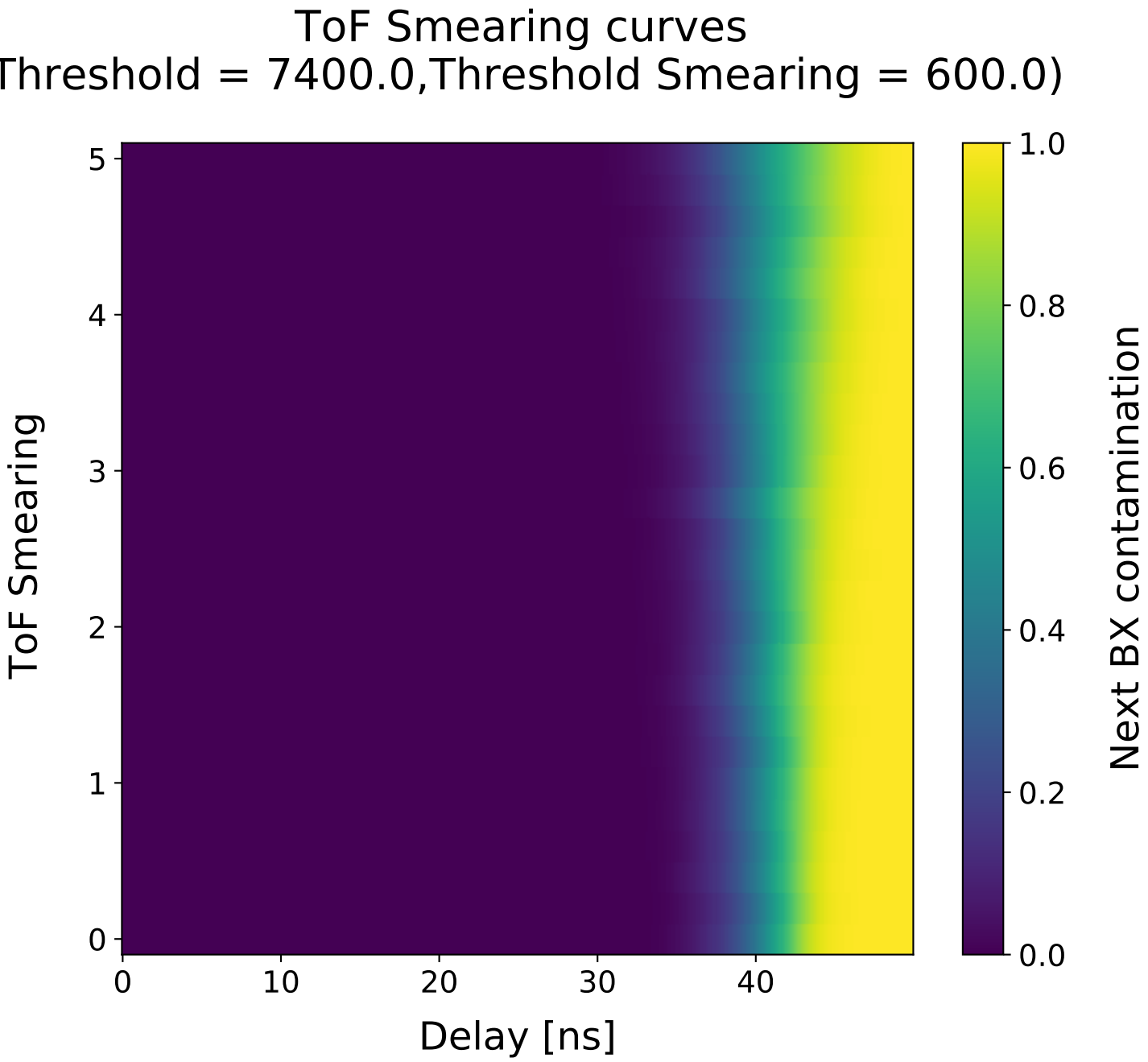

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

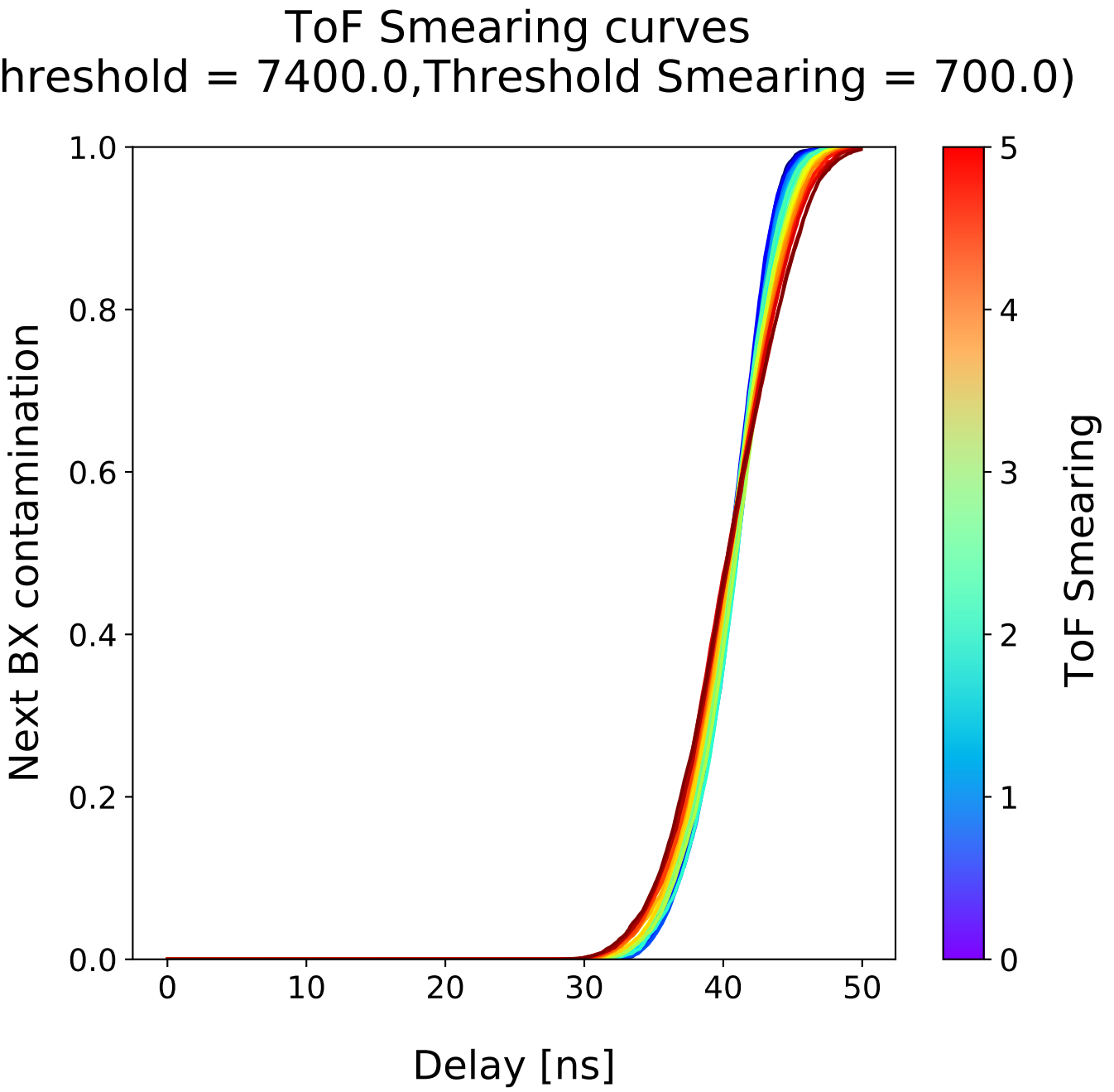

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

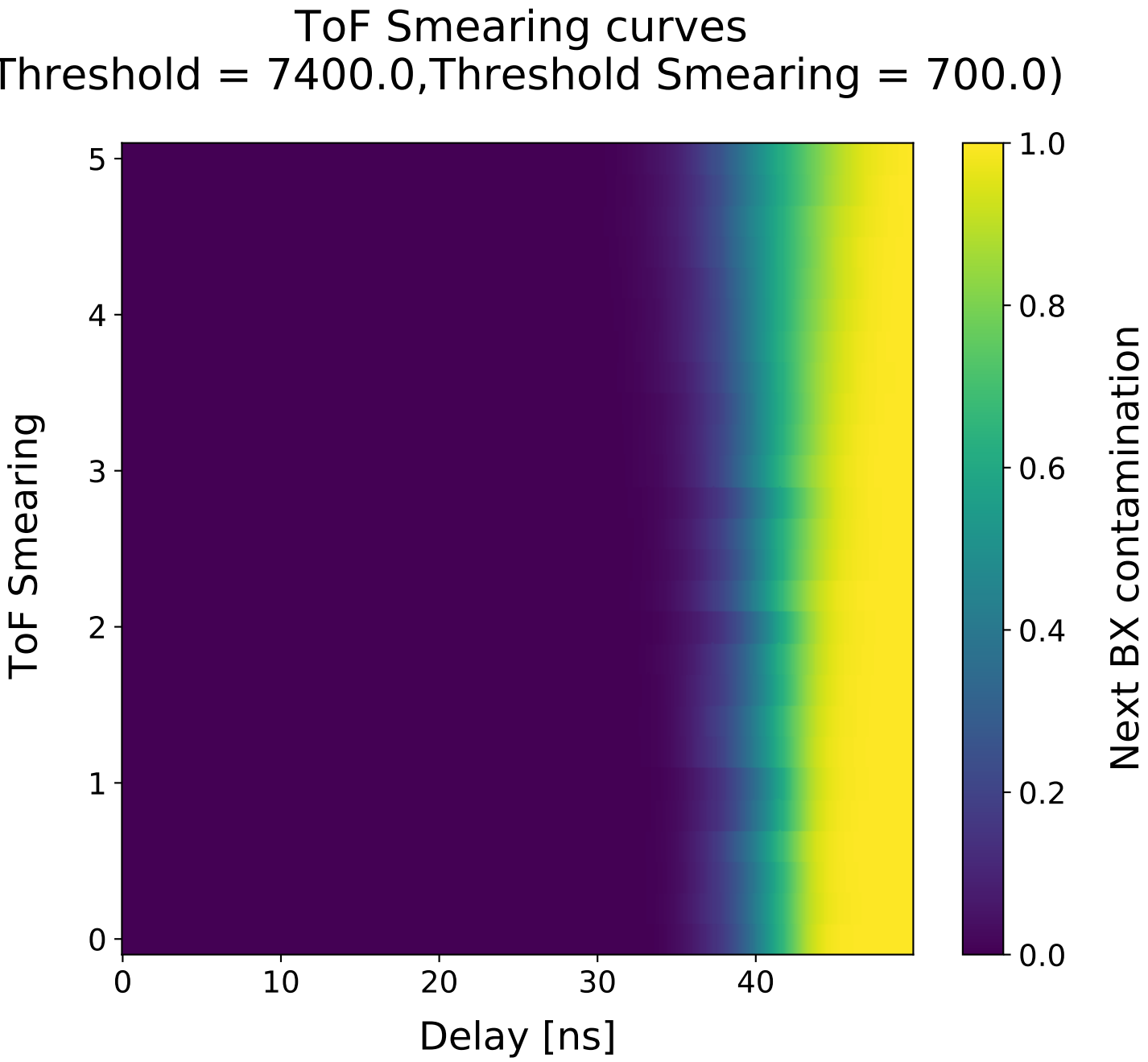

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

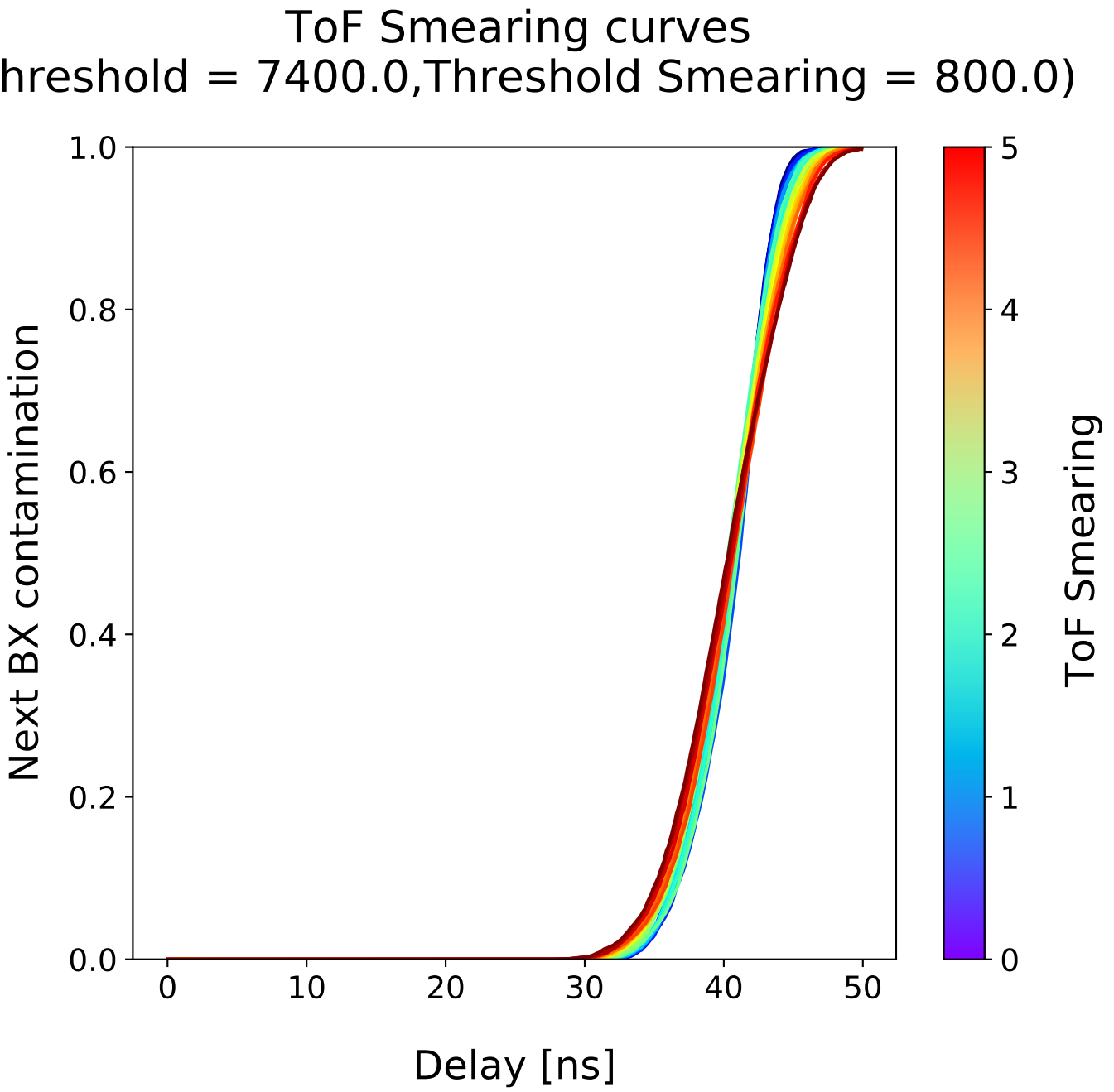

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

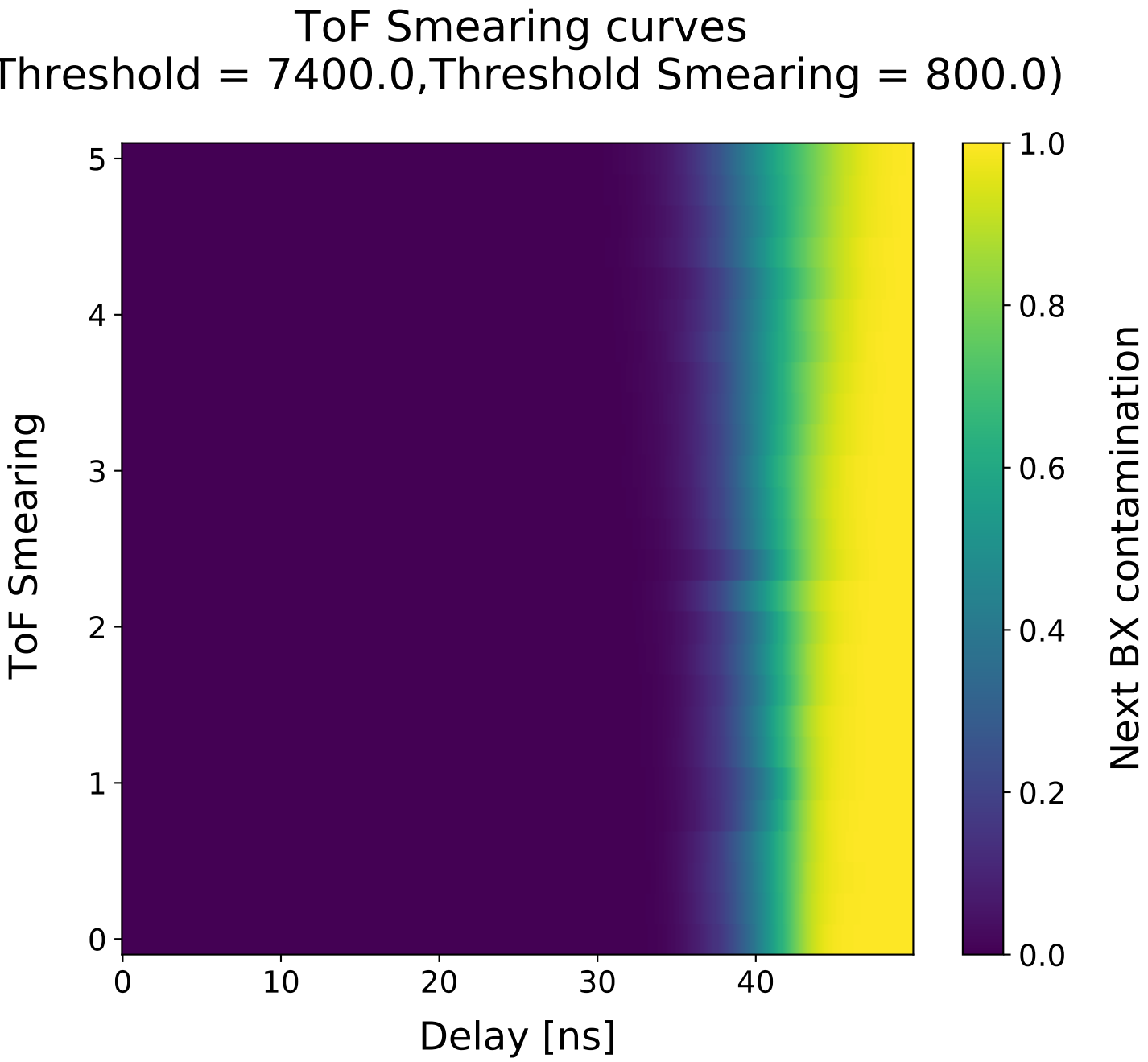

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

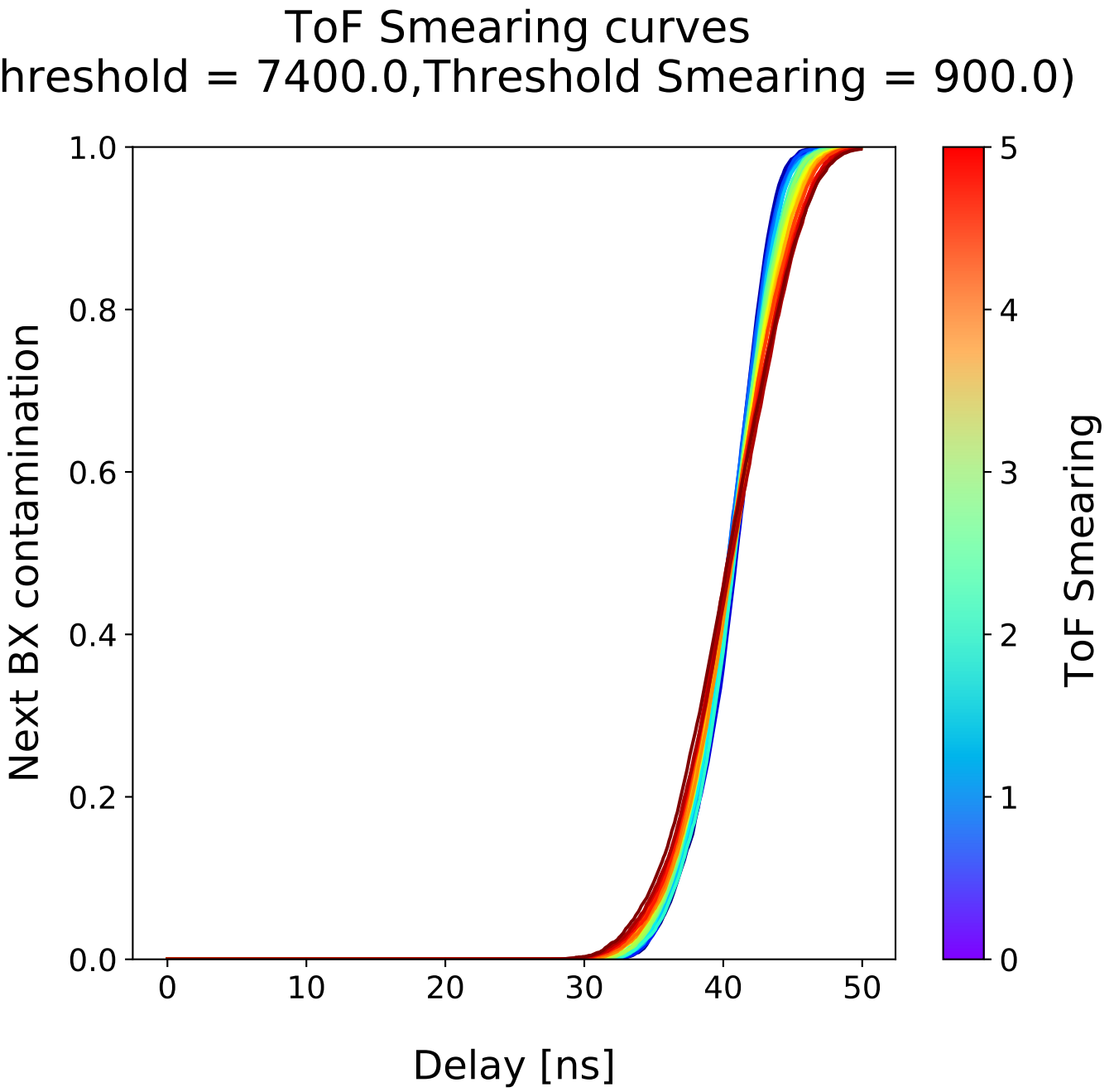

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

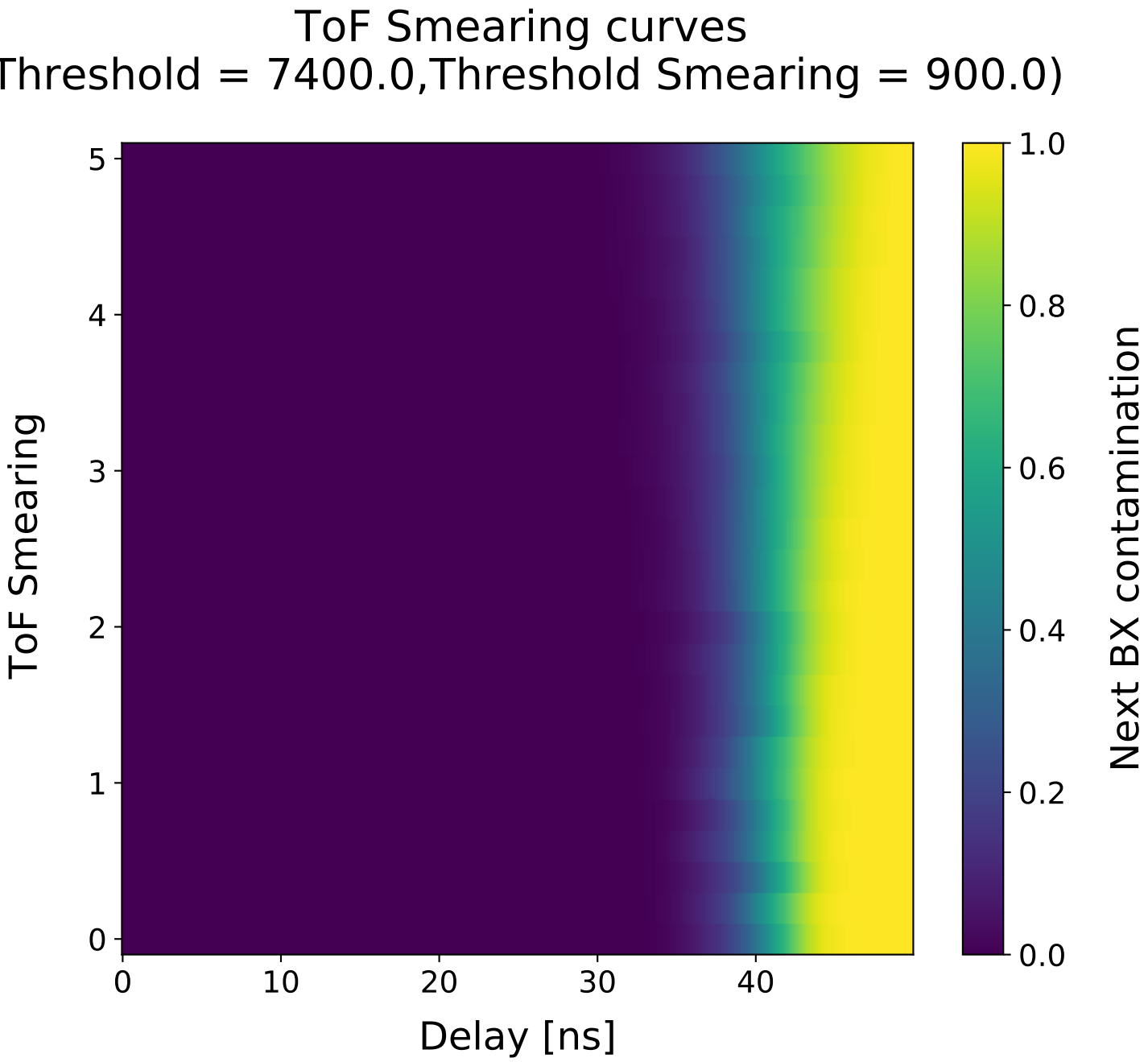

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

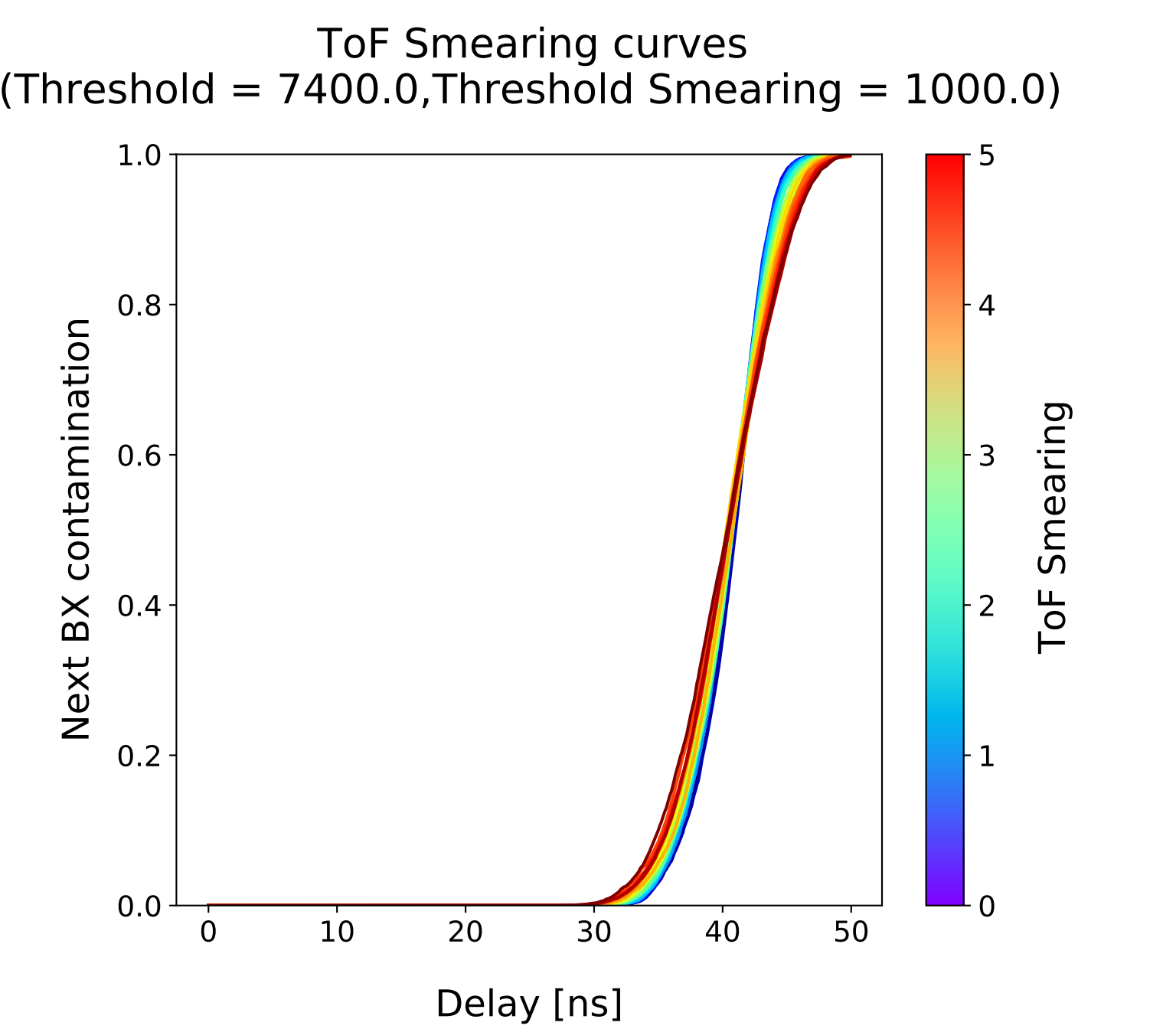

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

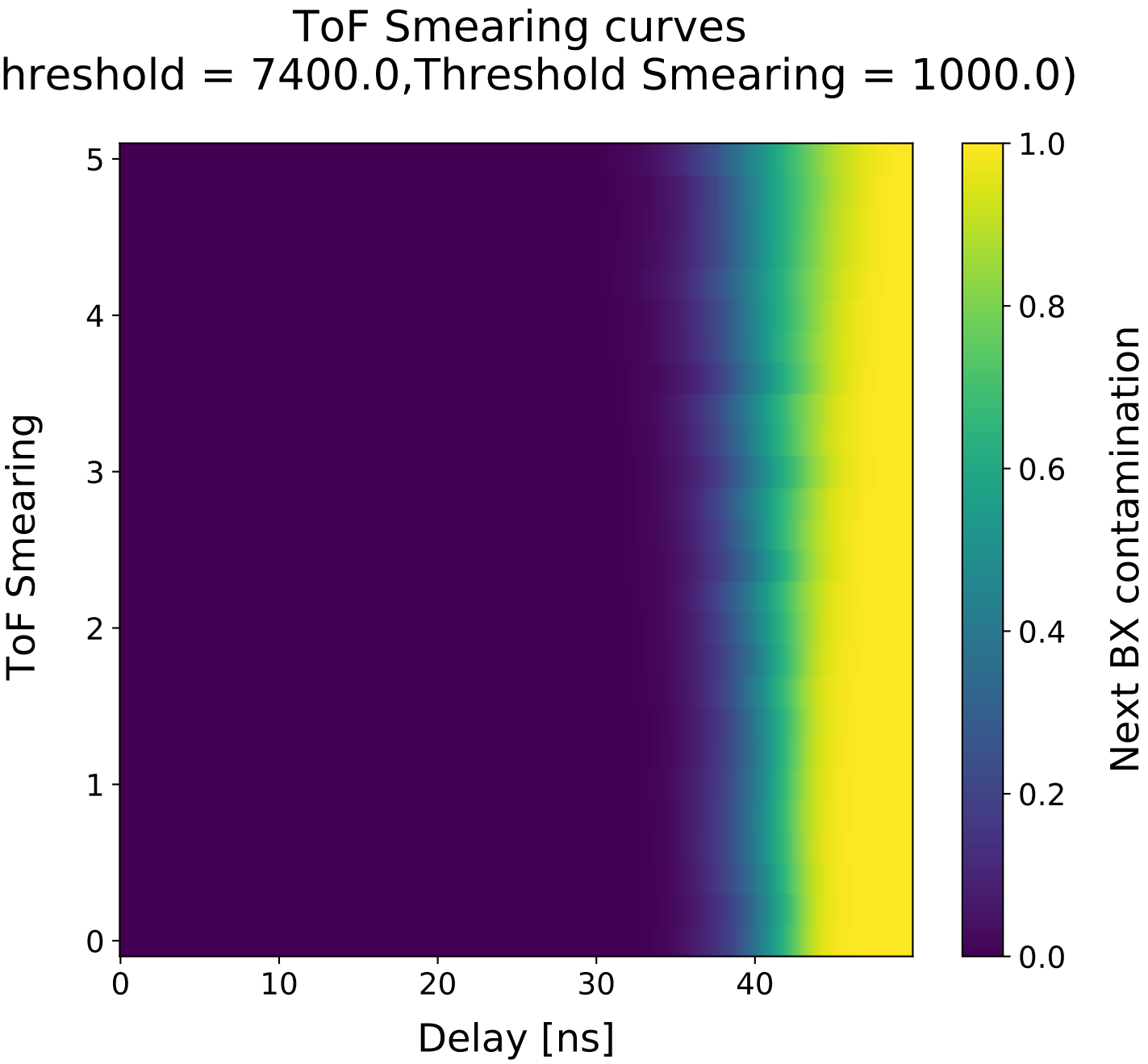

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

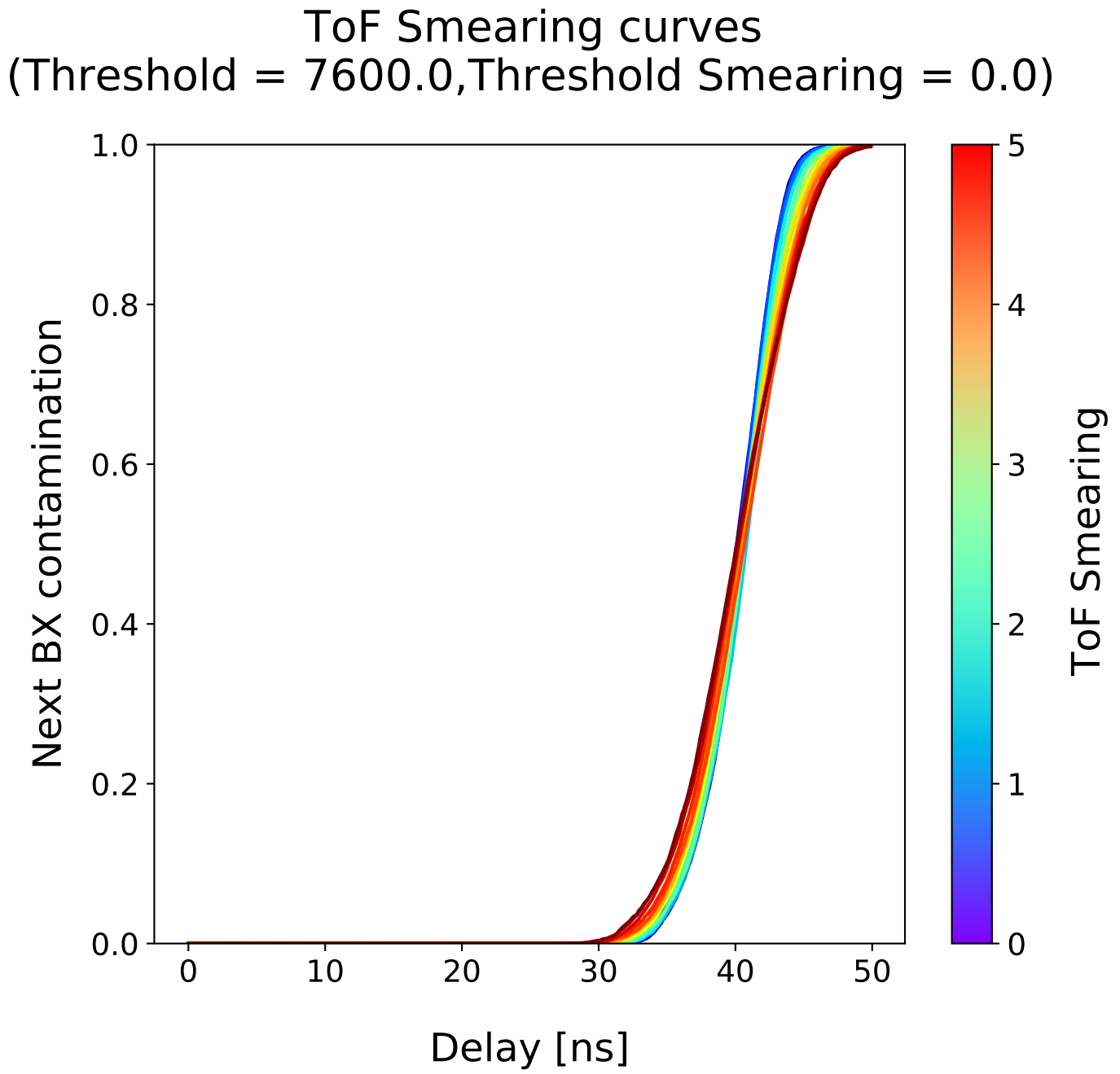

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

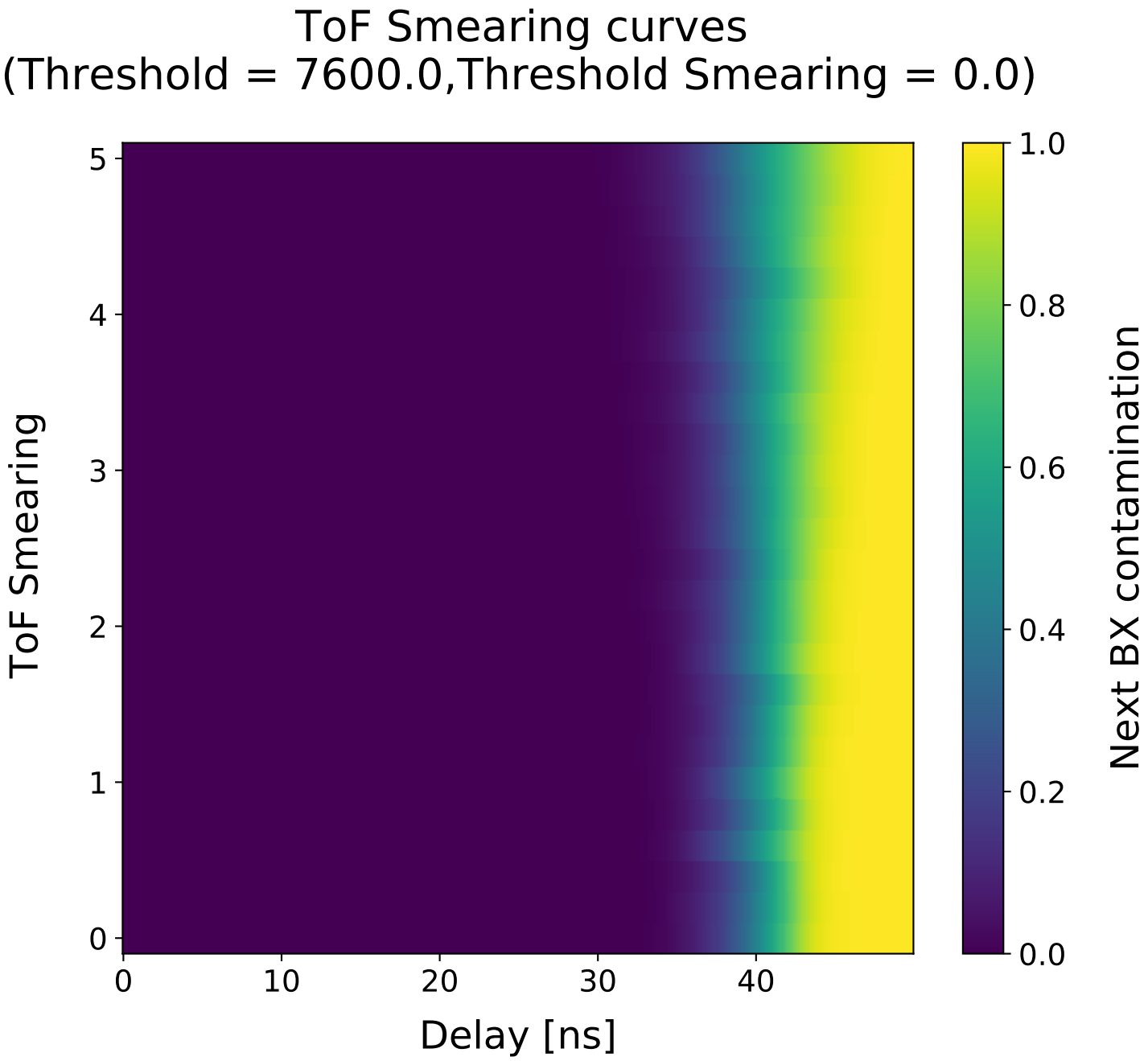

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

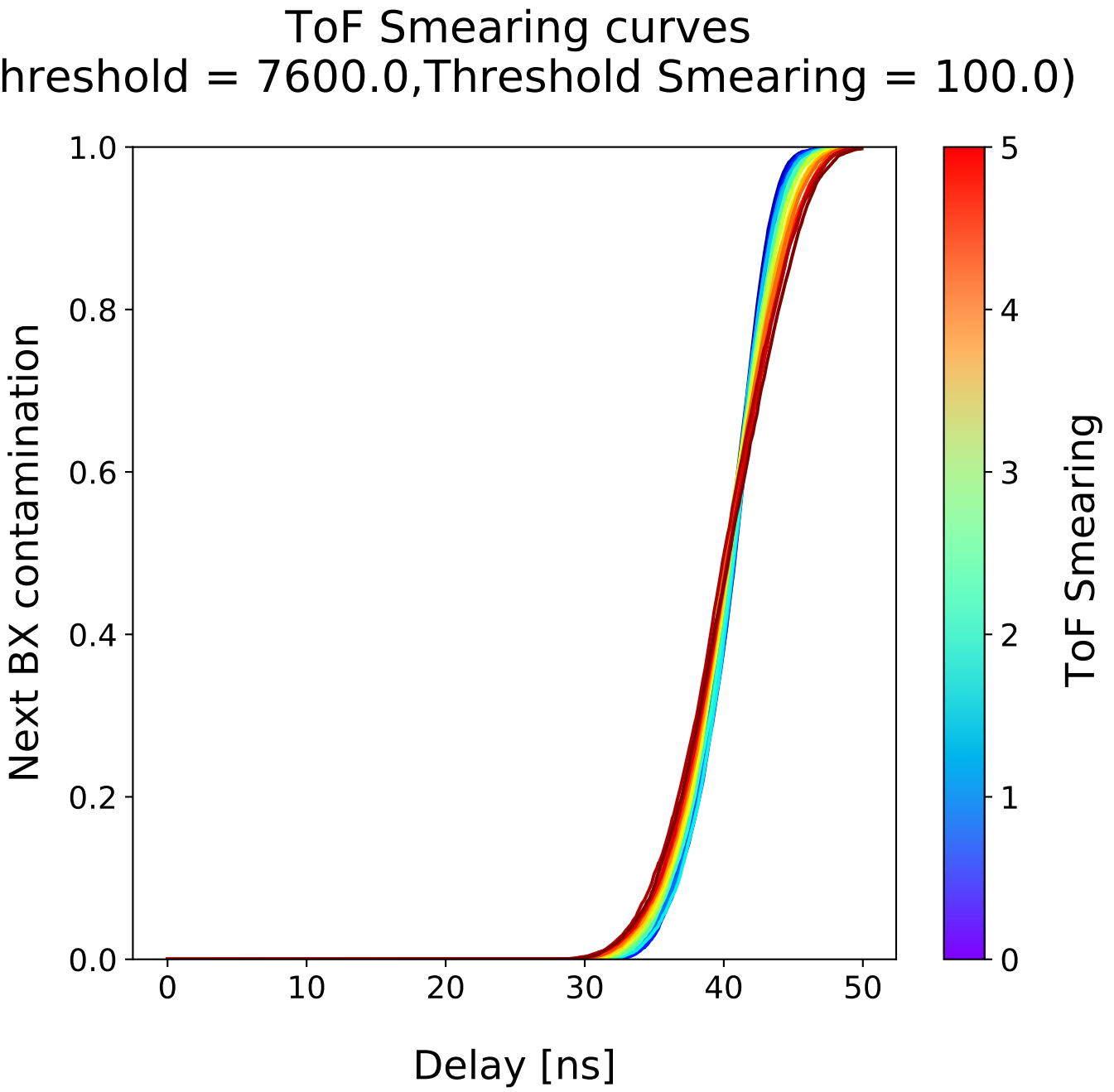

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

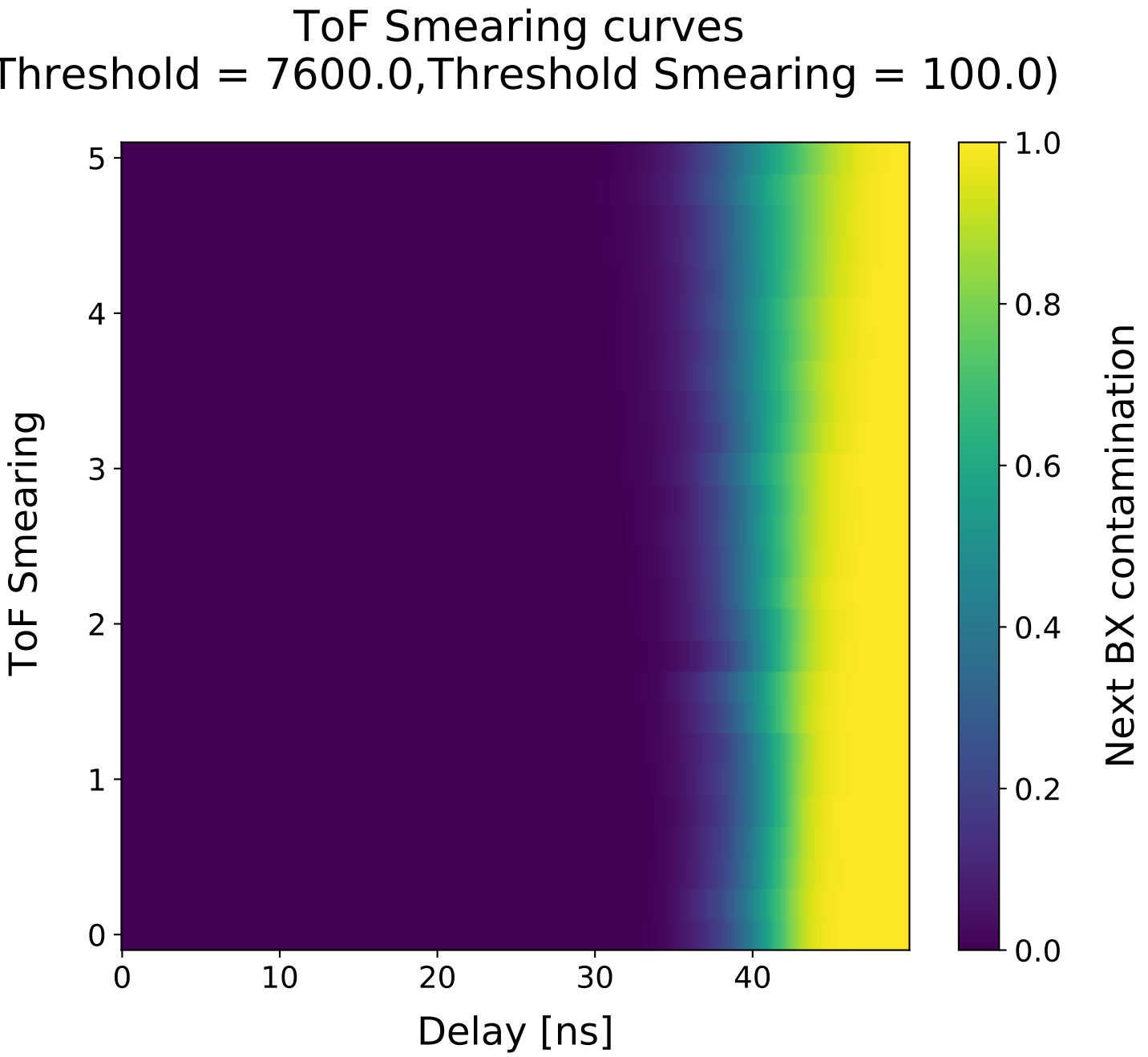

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

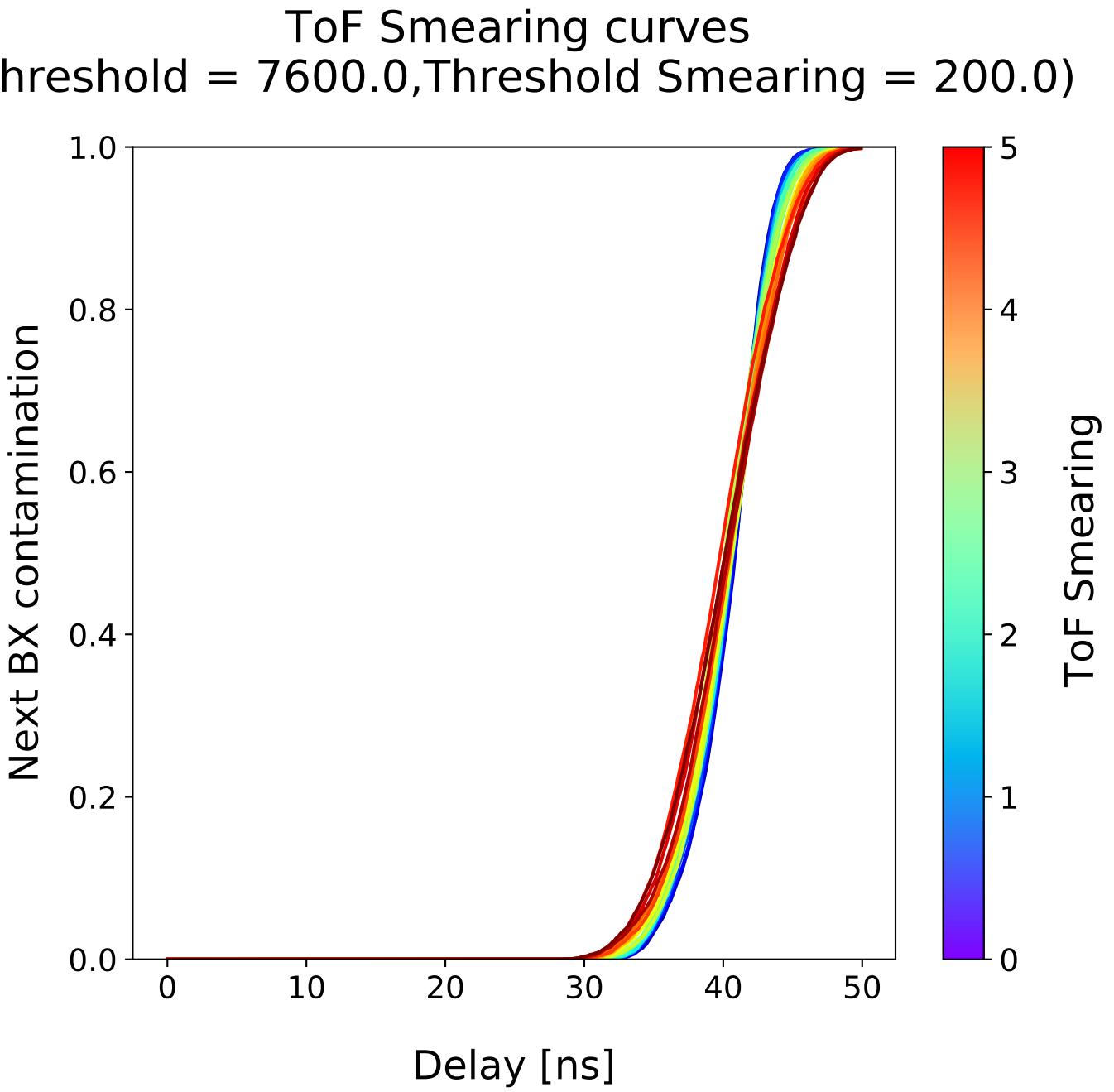

ToF Smearing curves
(Threshold = 7400.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

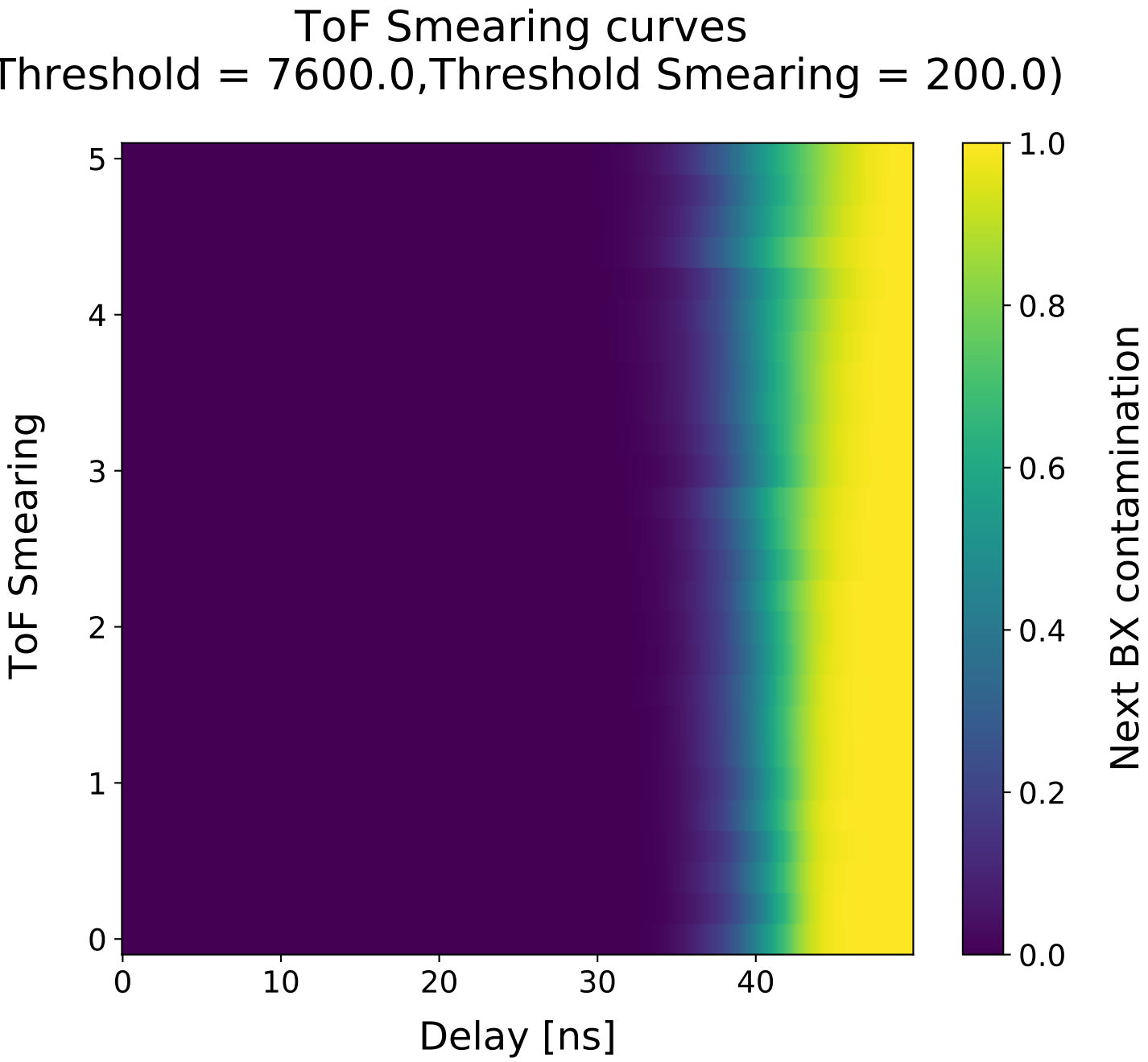

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

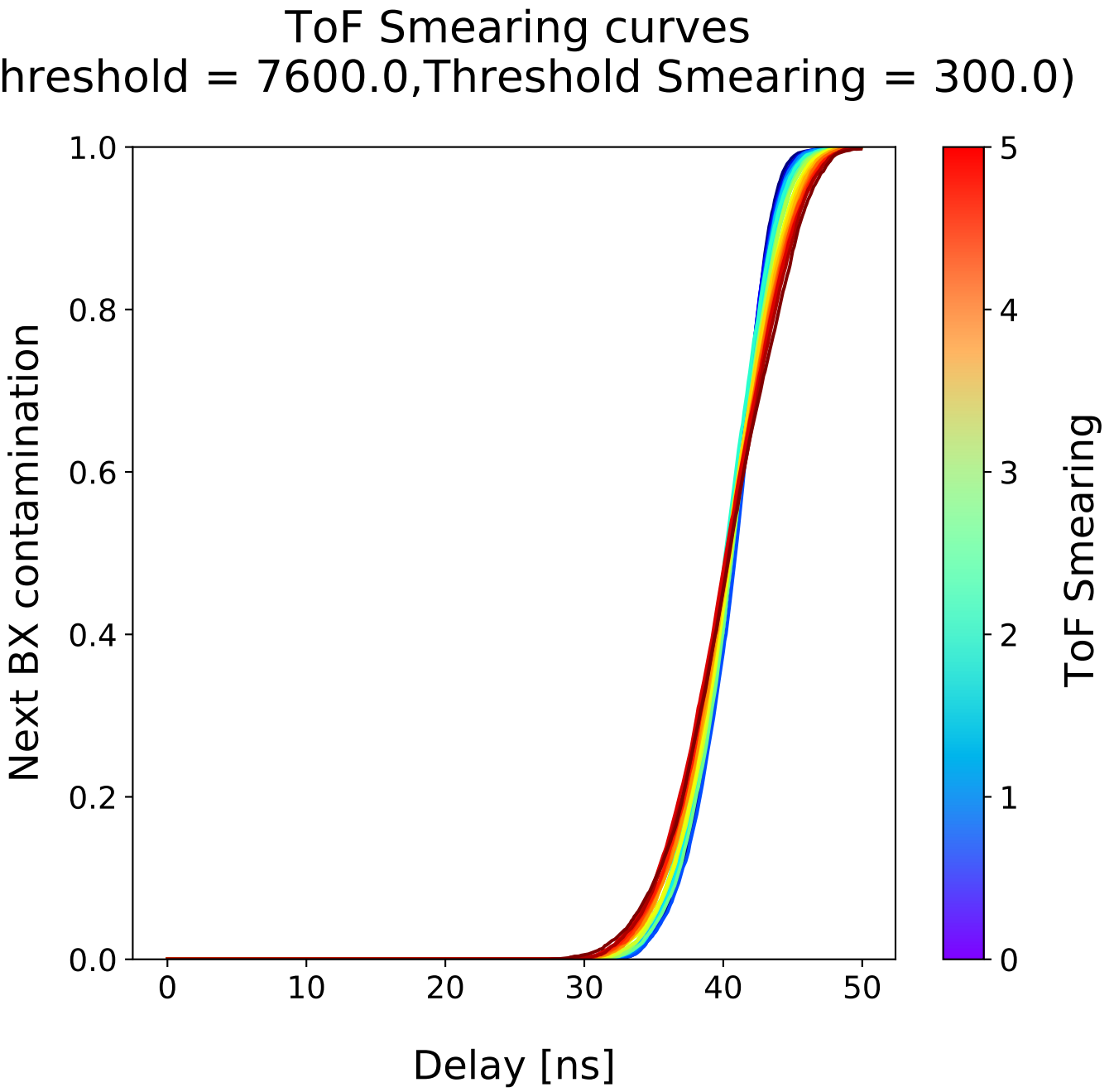

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

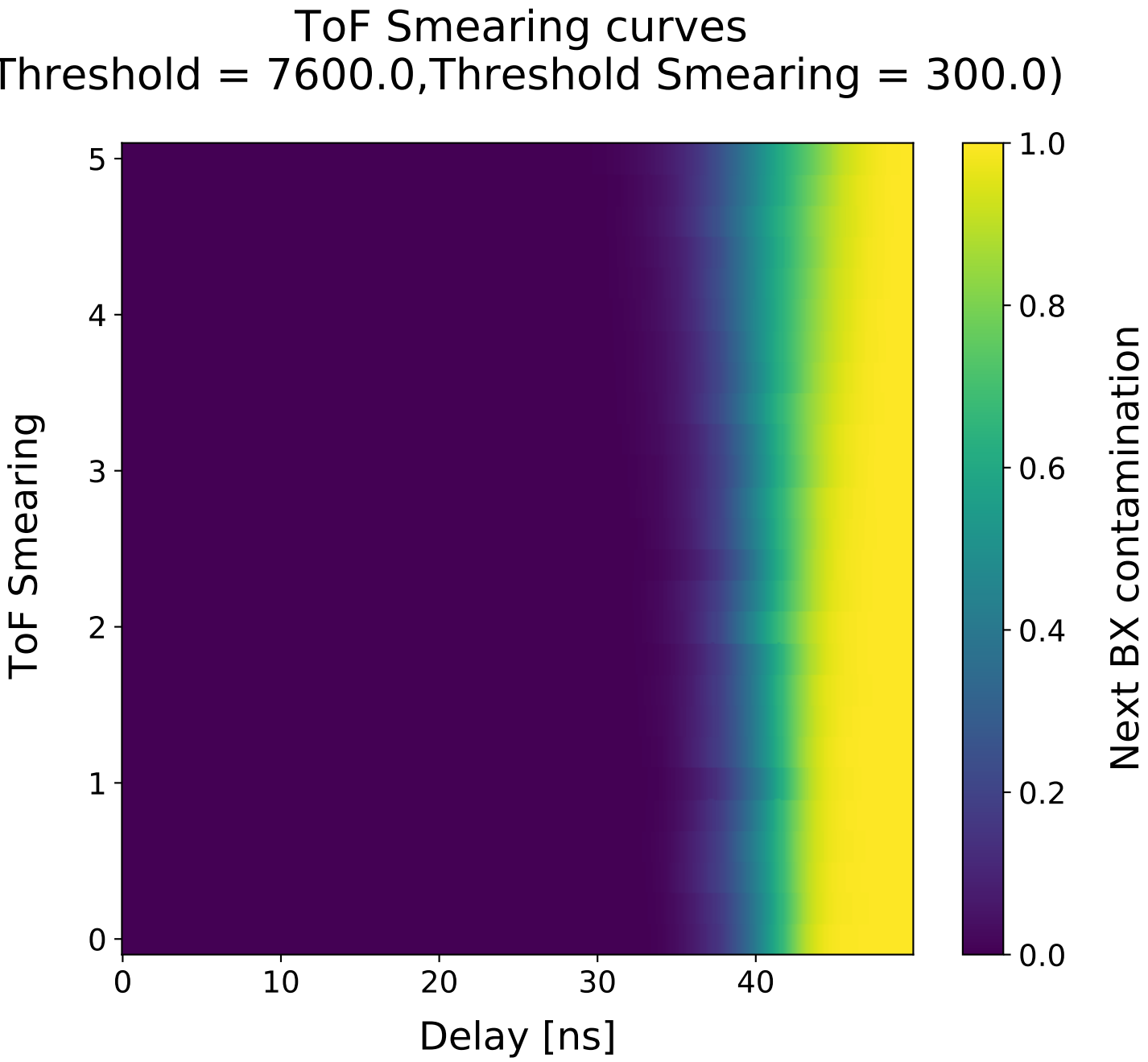

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

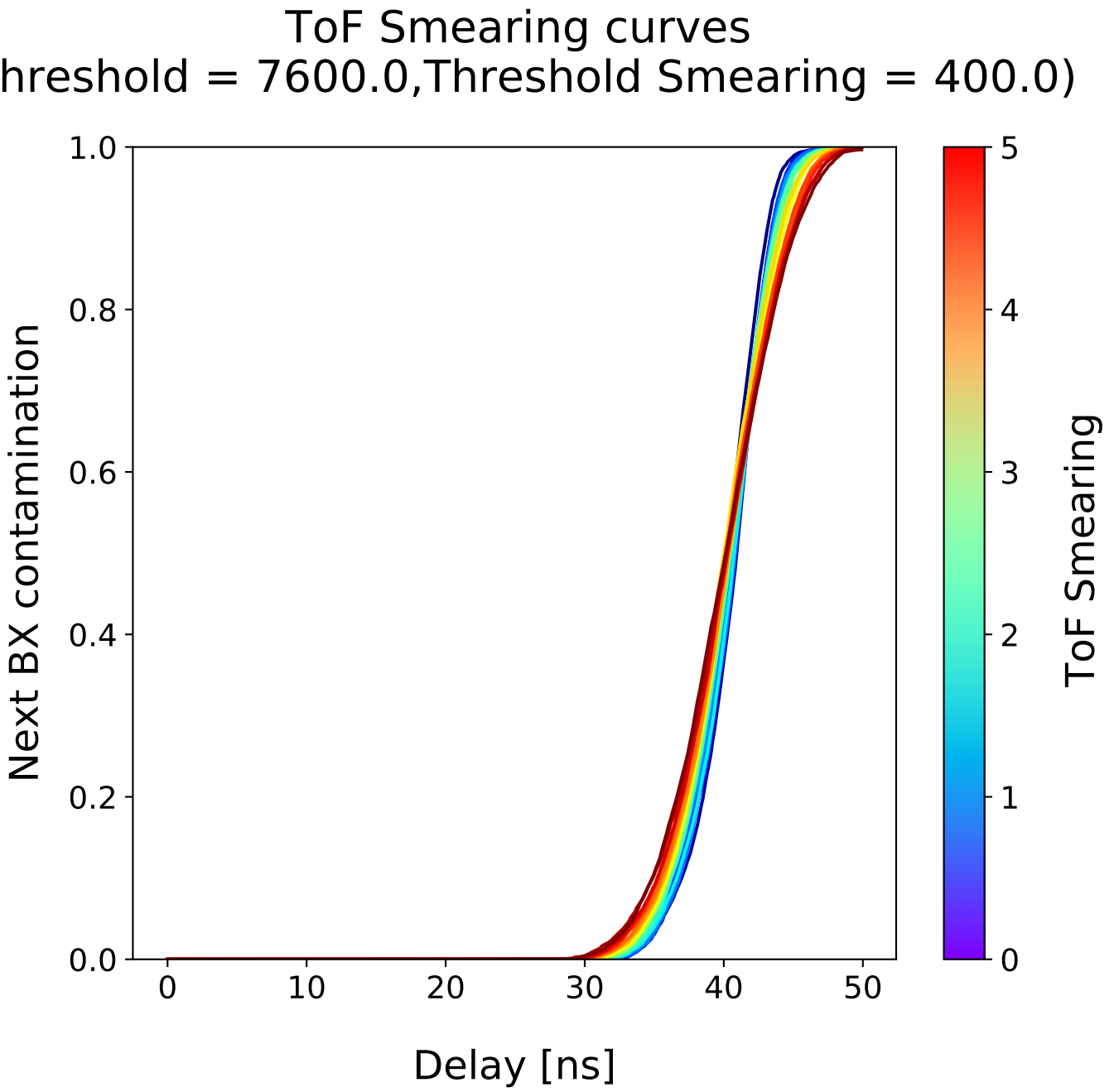

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

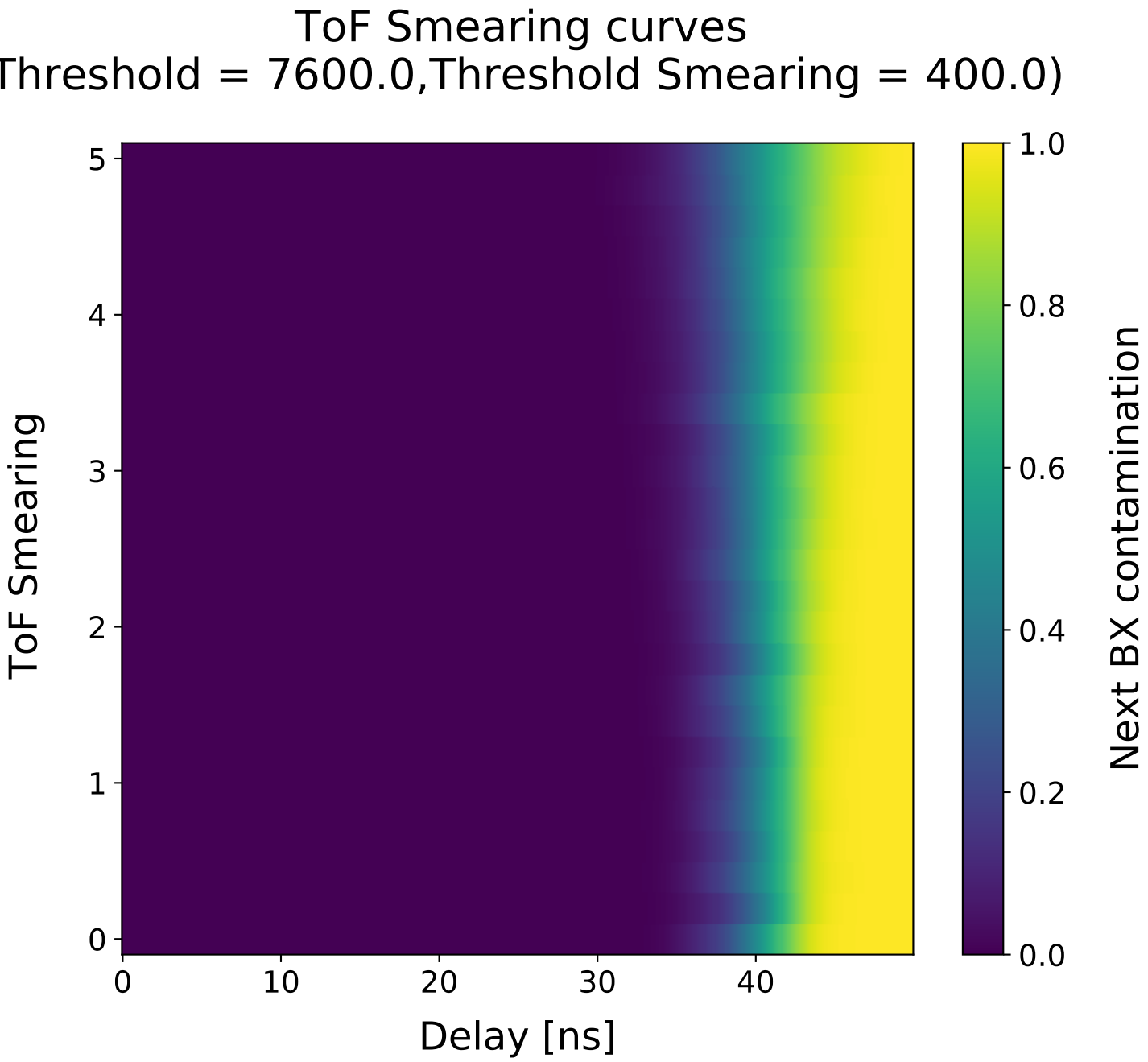

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

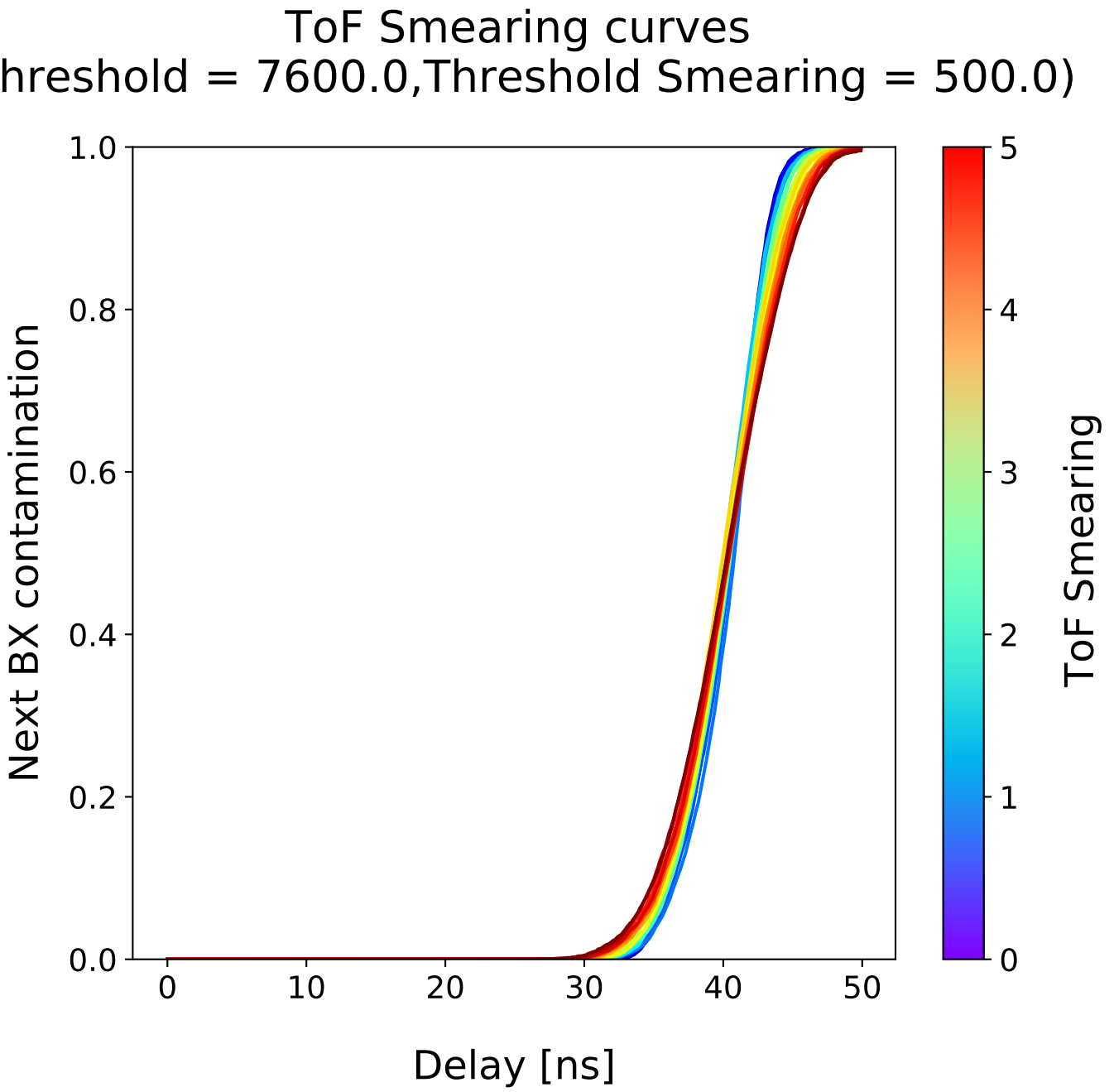

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

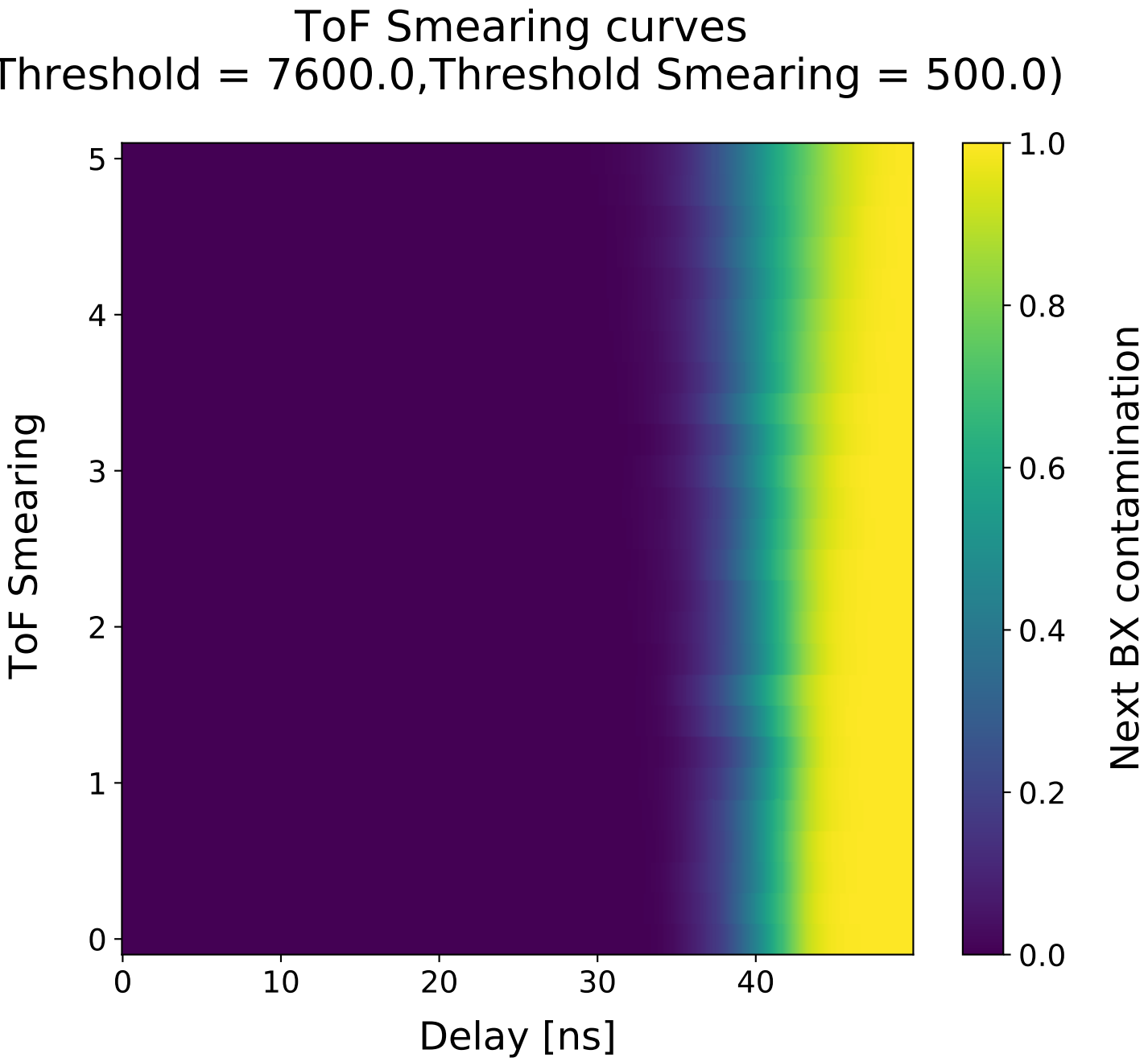

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

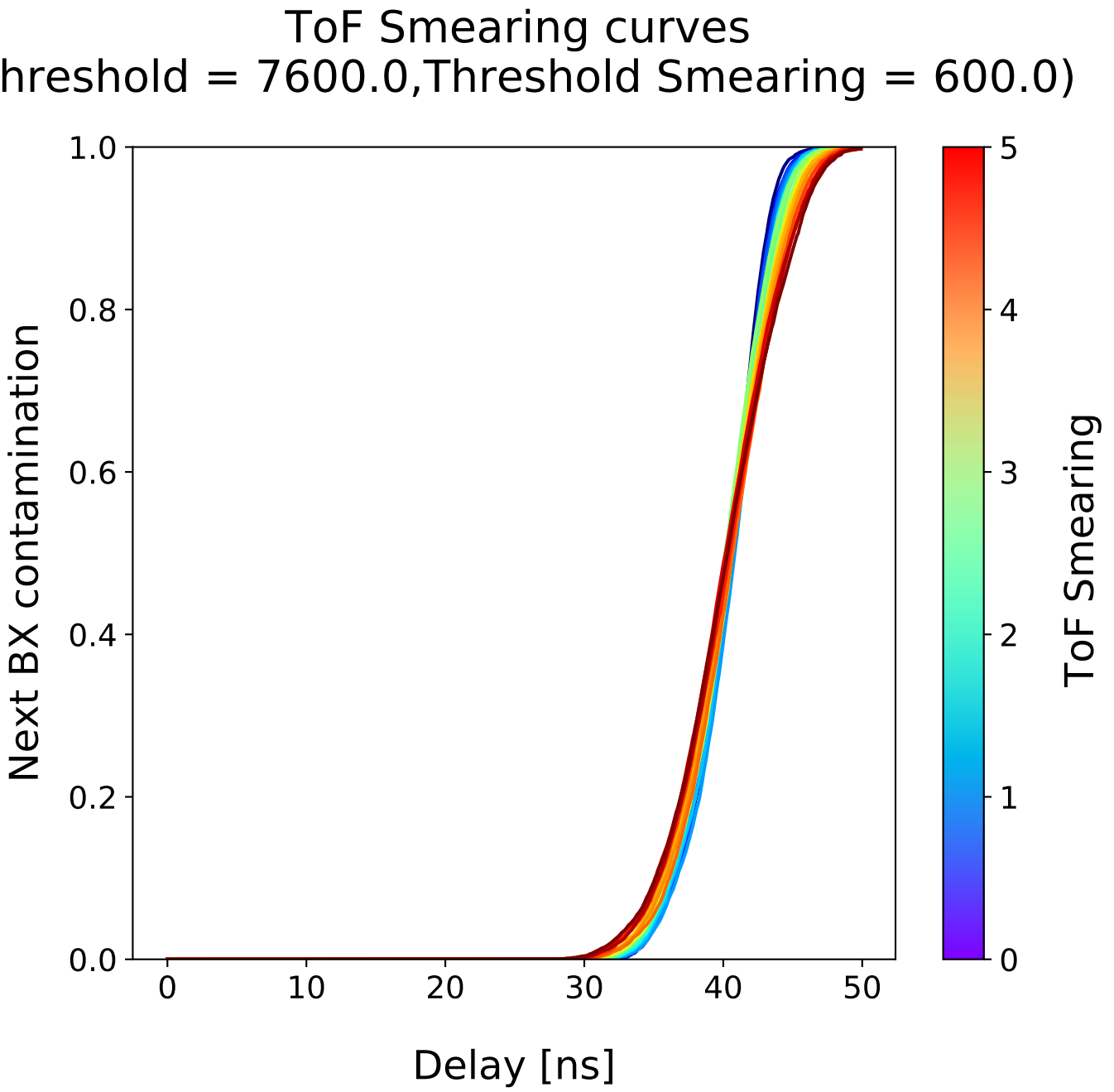

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

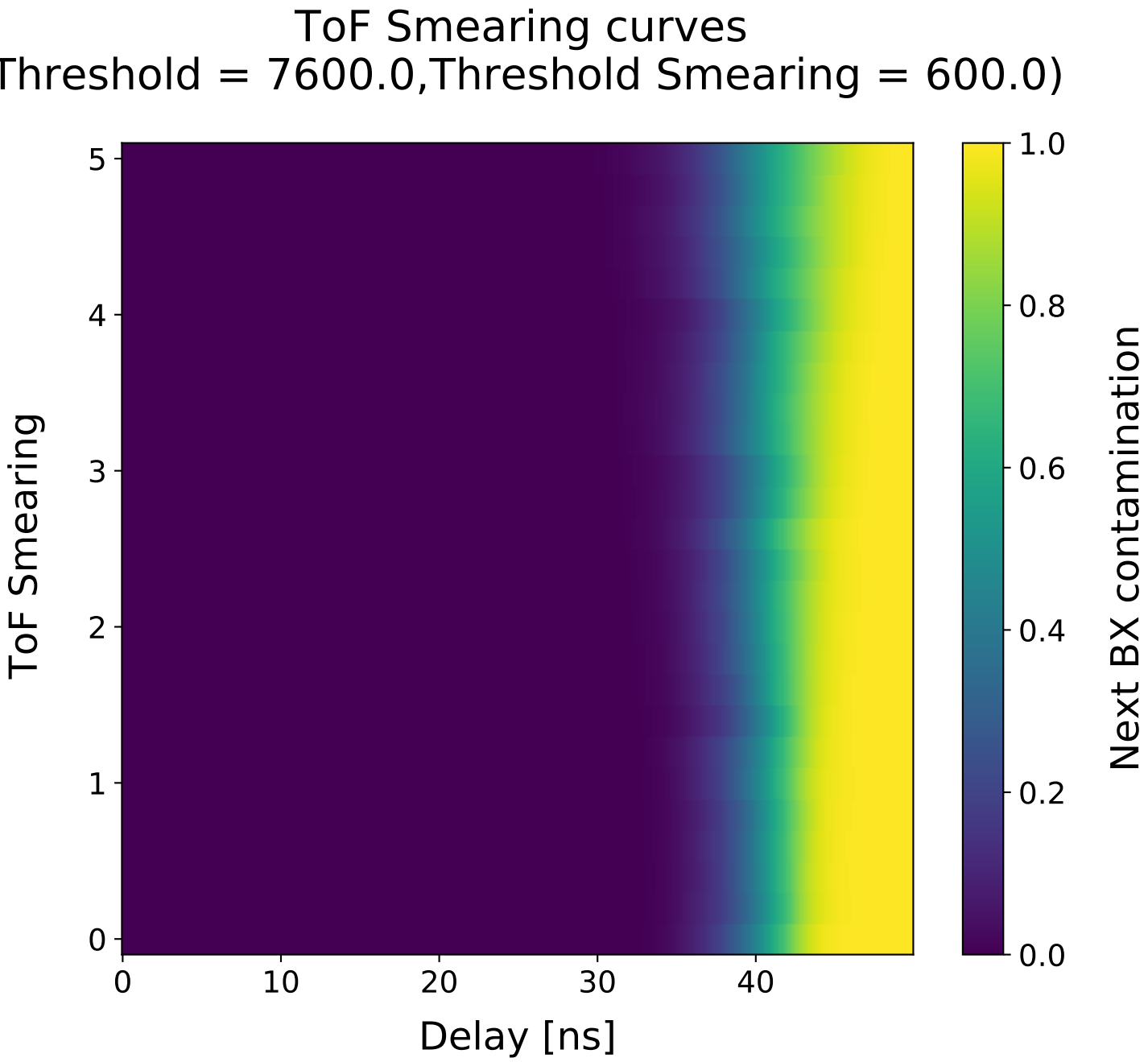

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

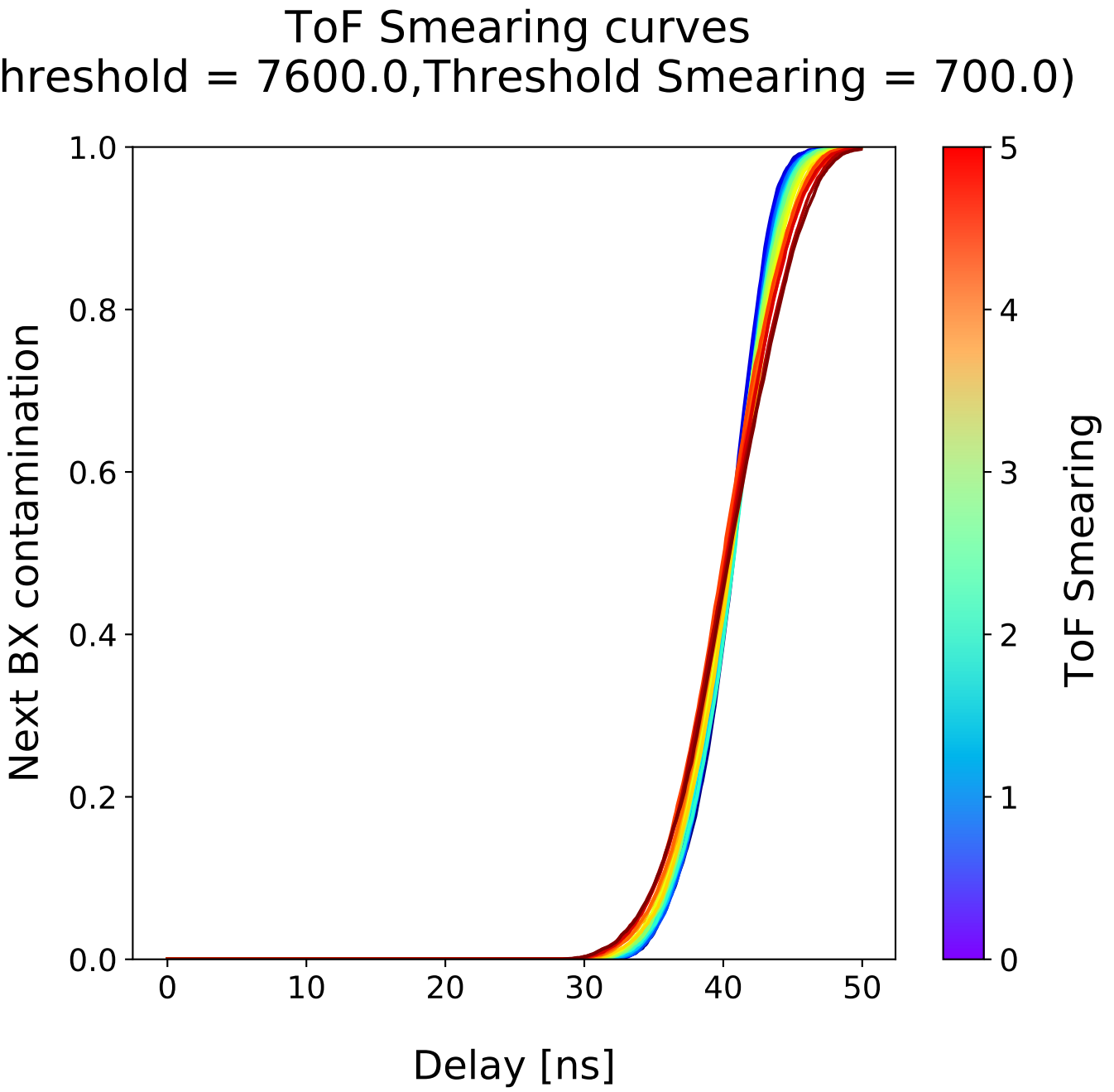

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

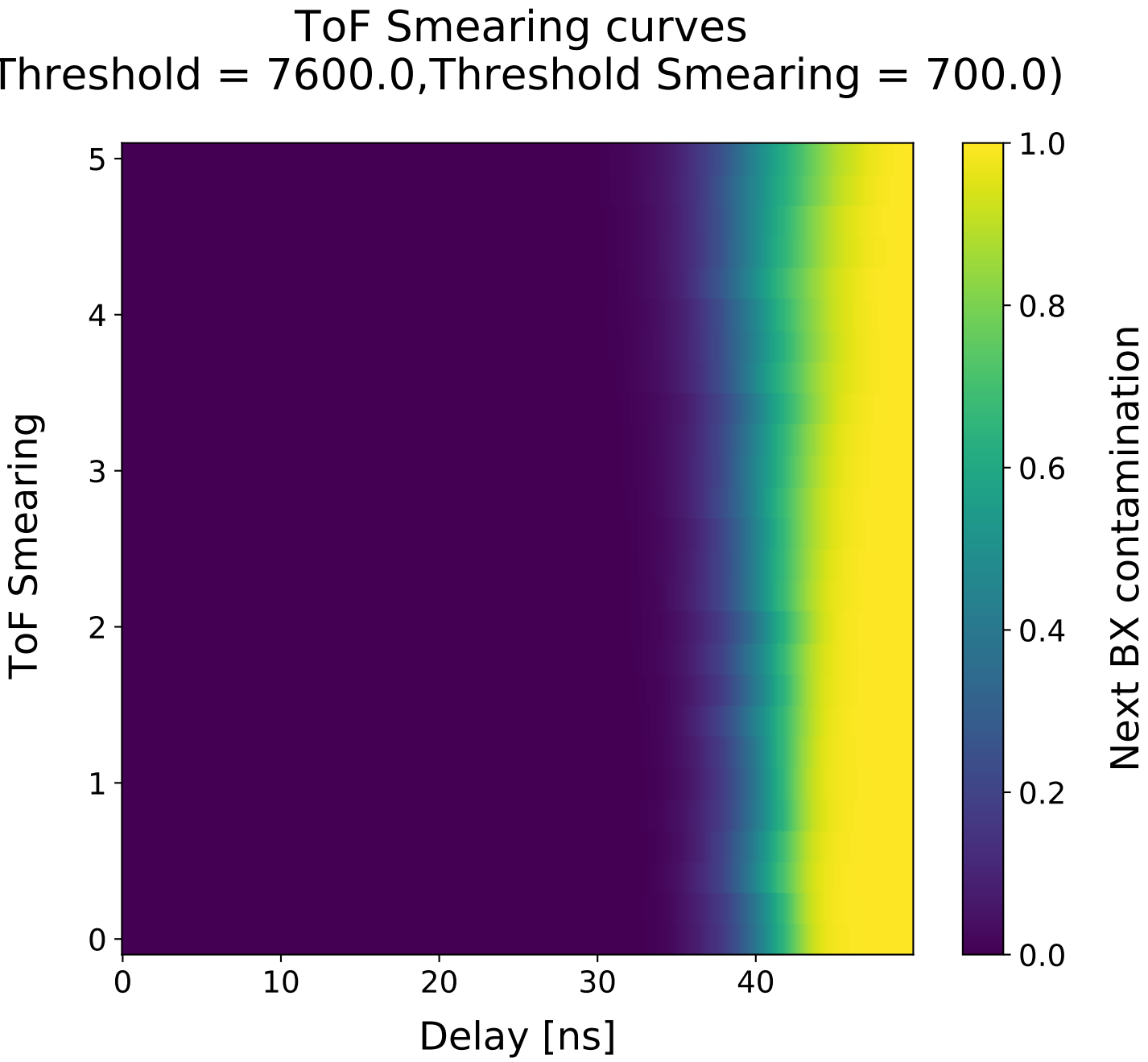

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

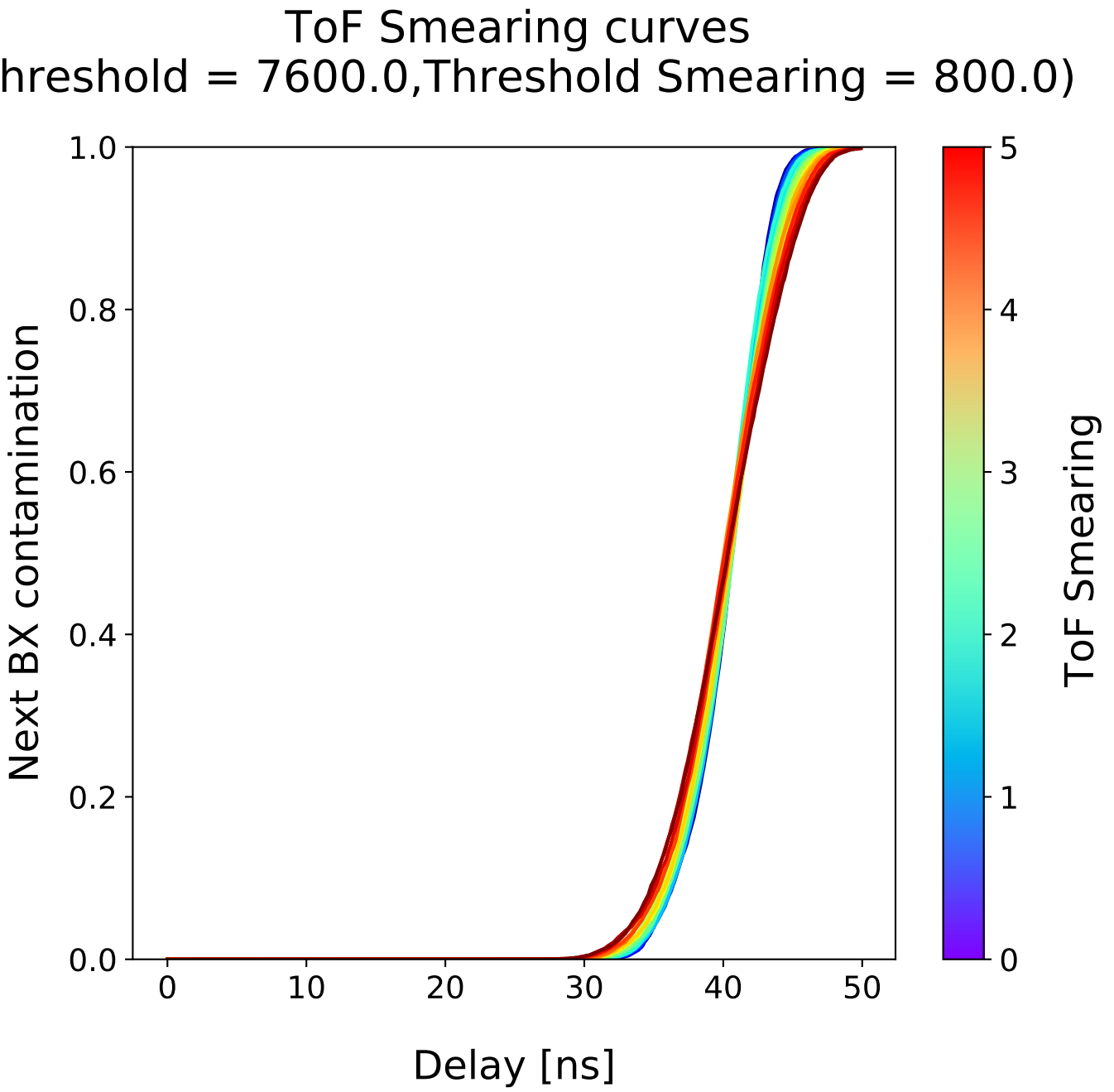

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

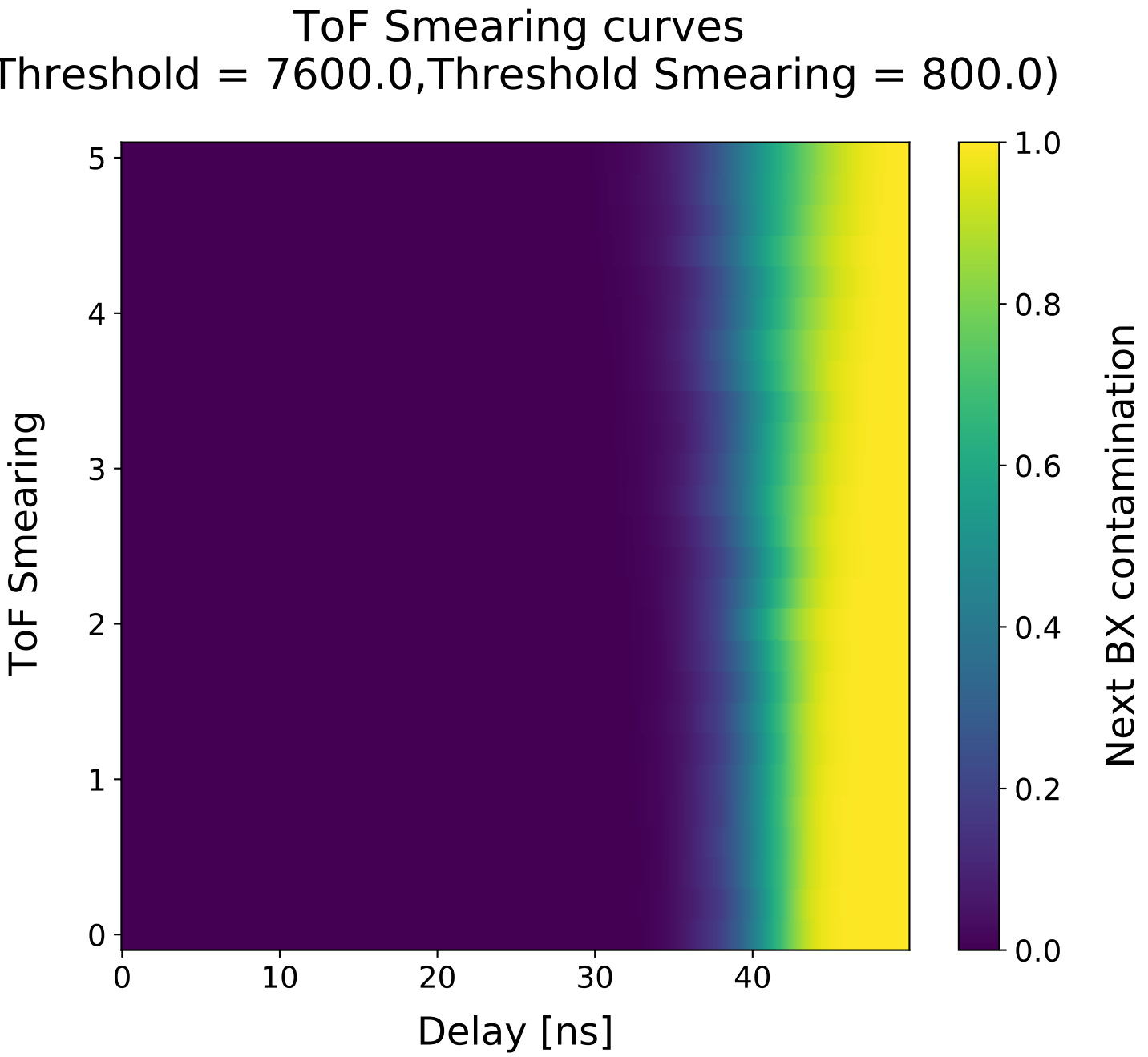

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

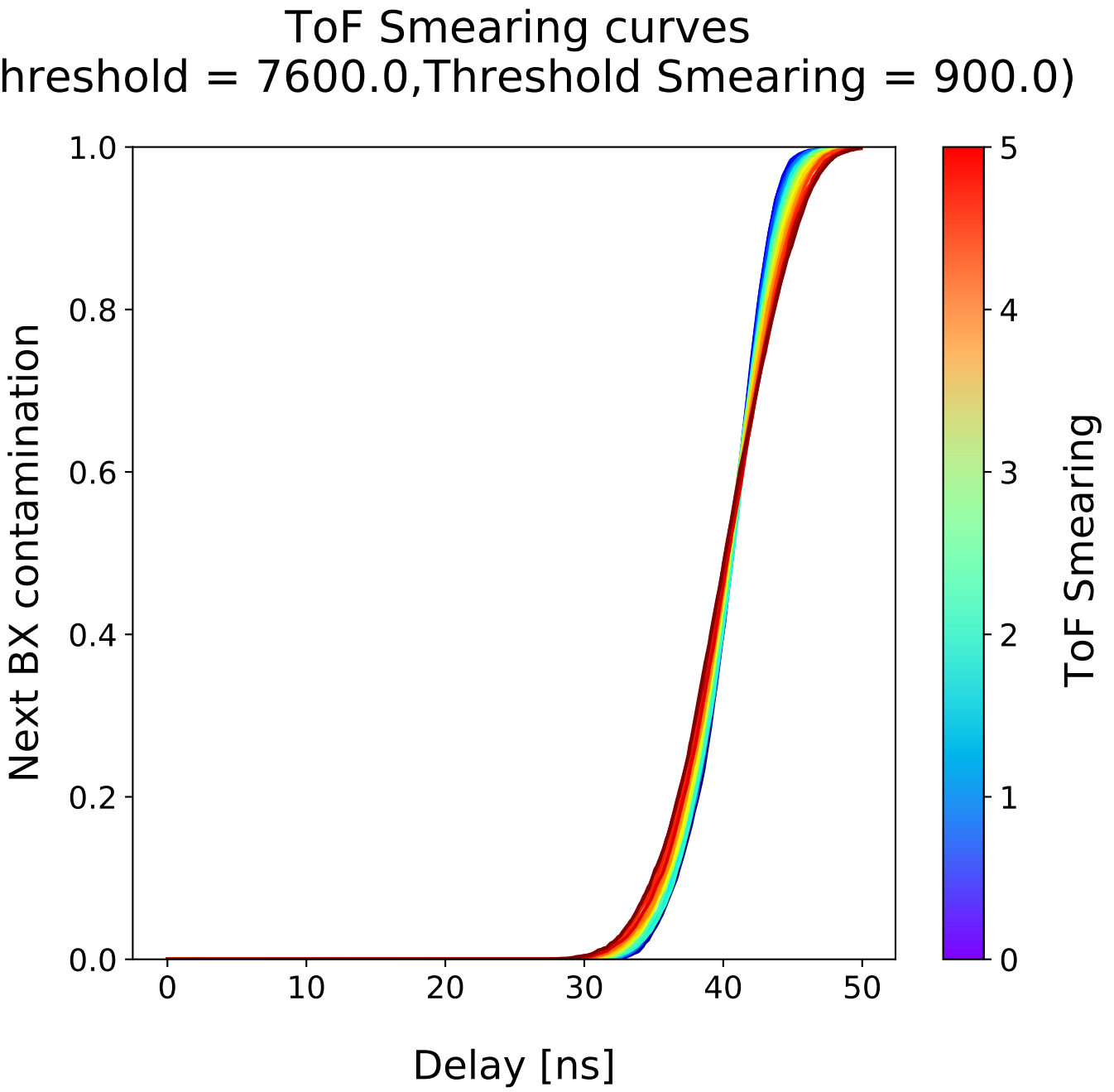

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

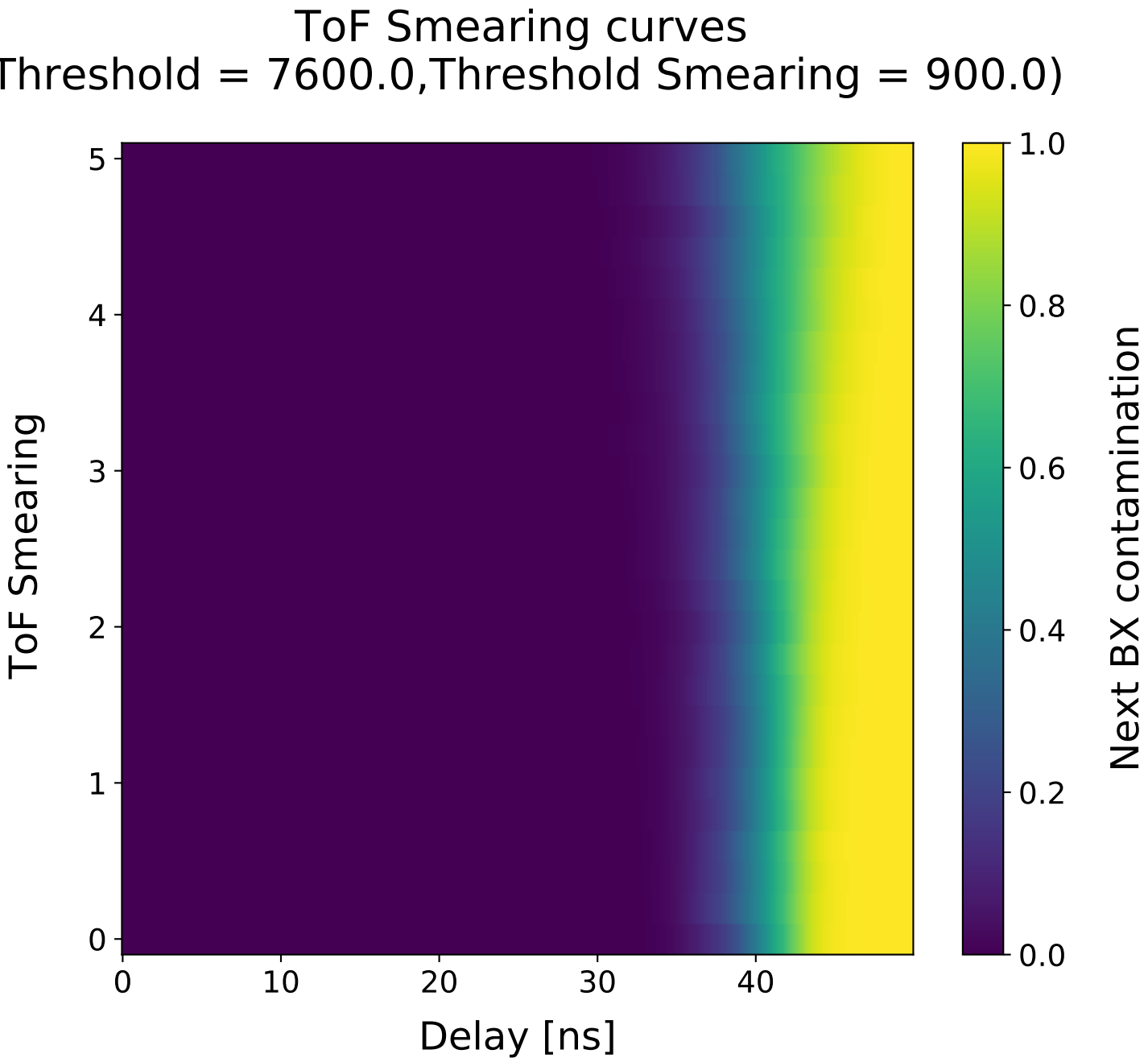

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

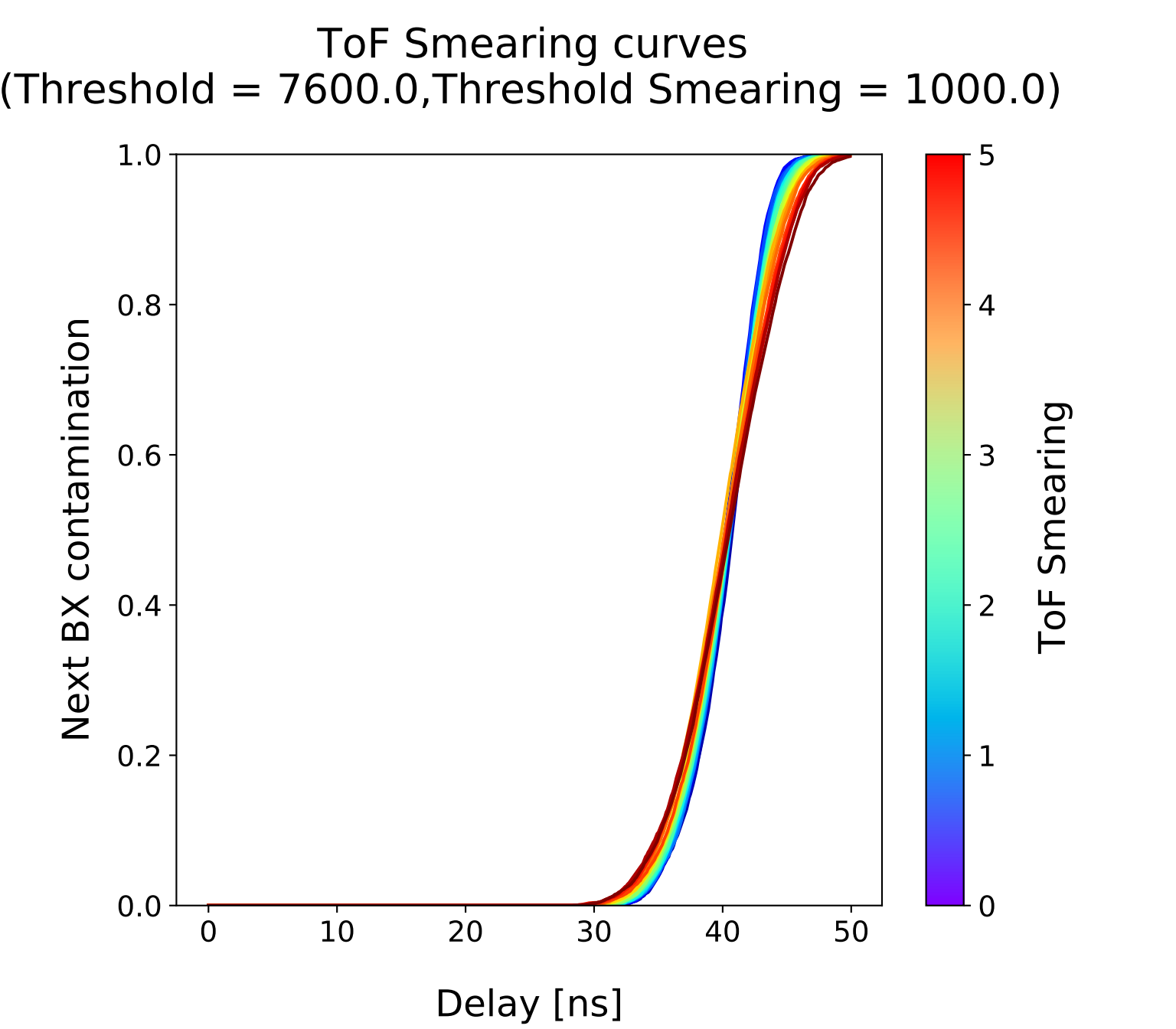

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

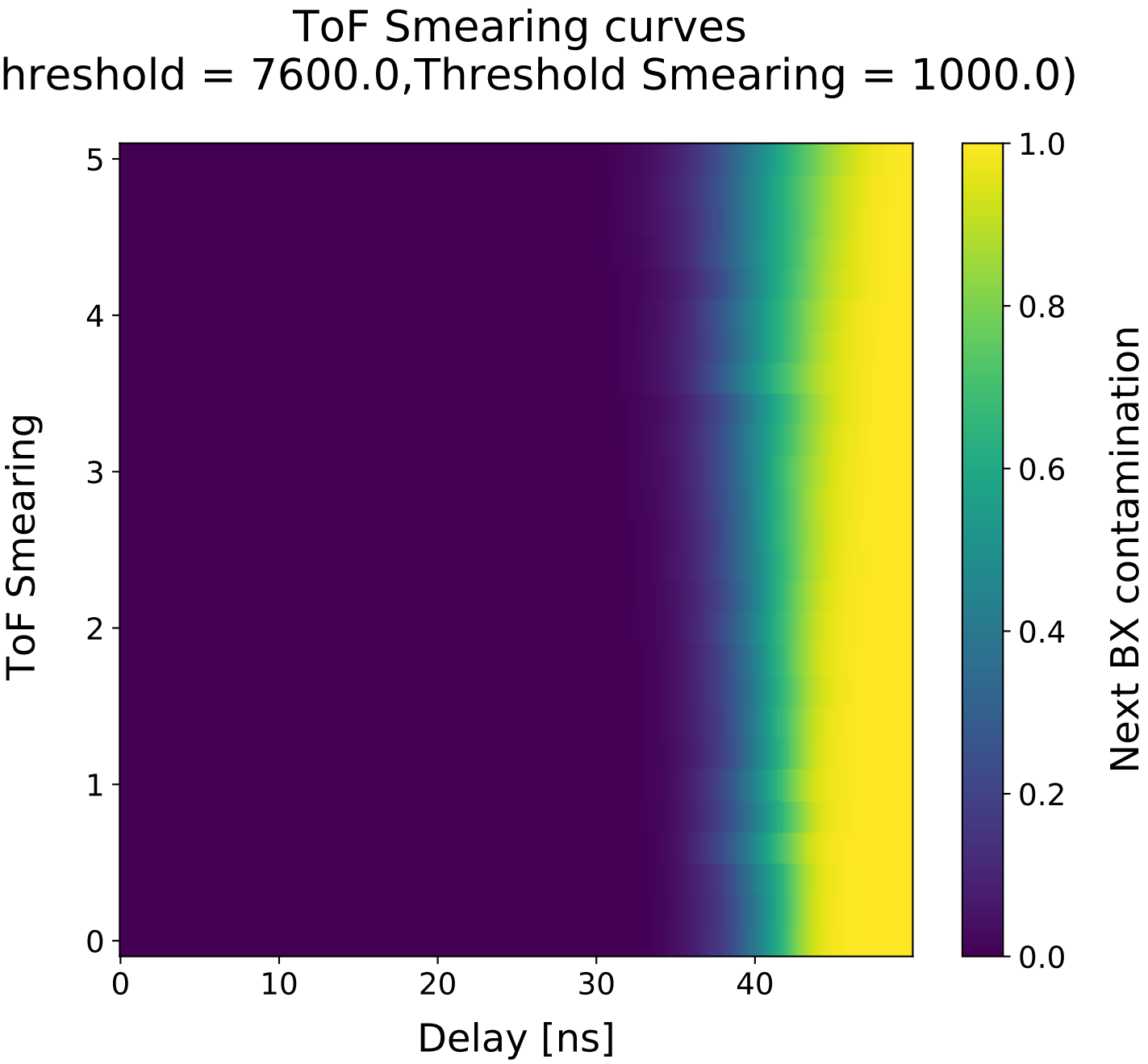

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

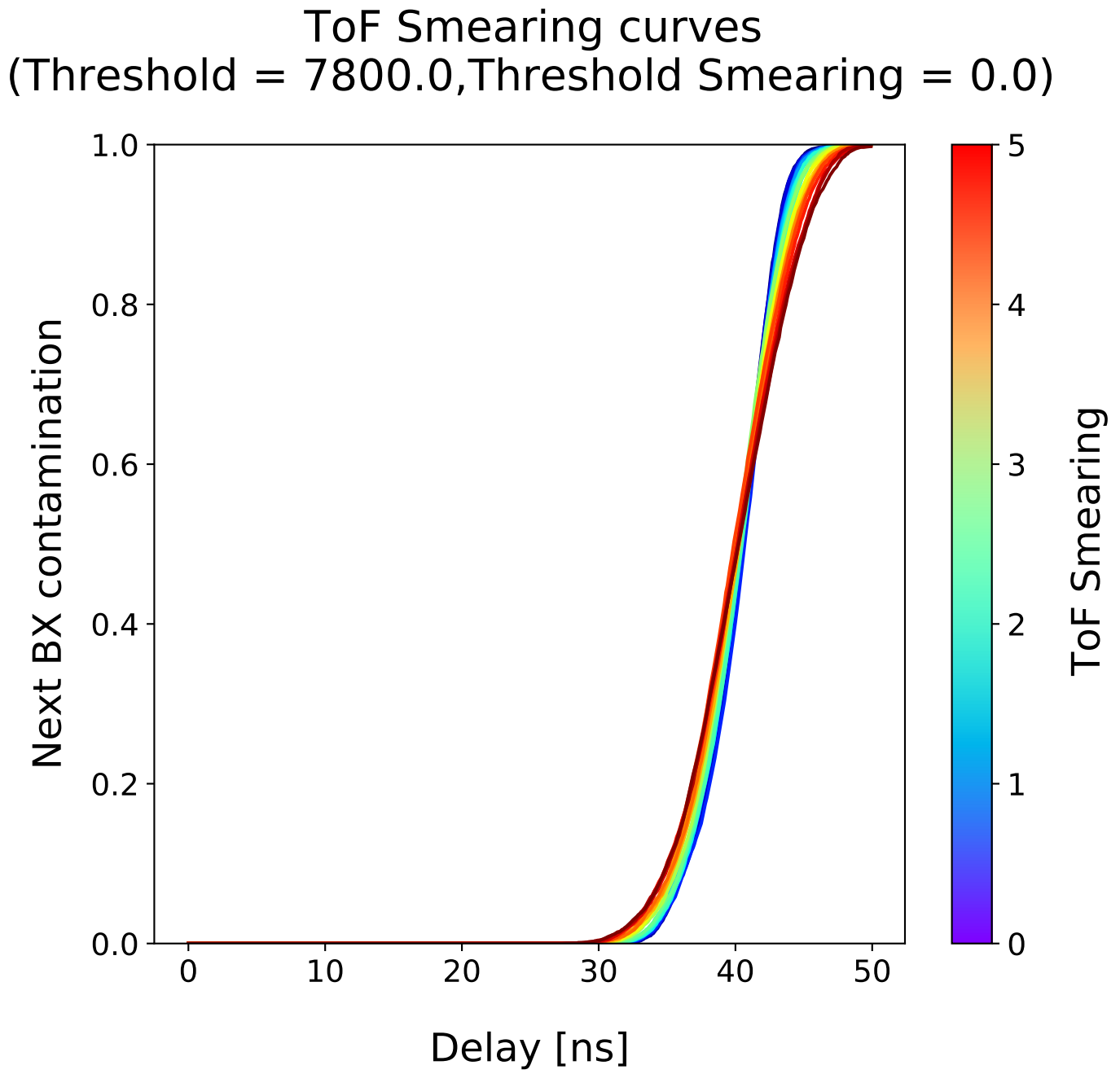

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

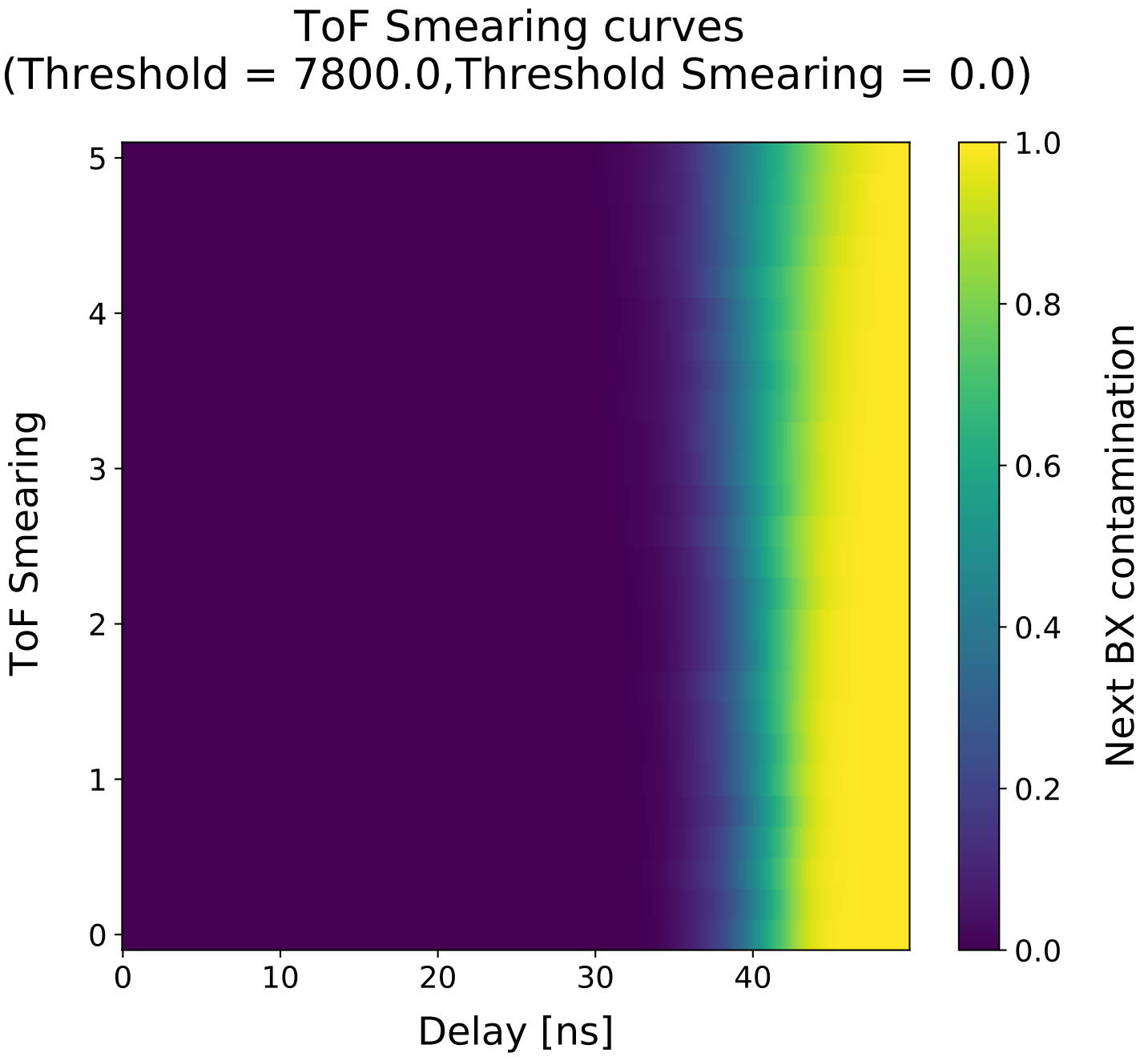

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

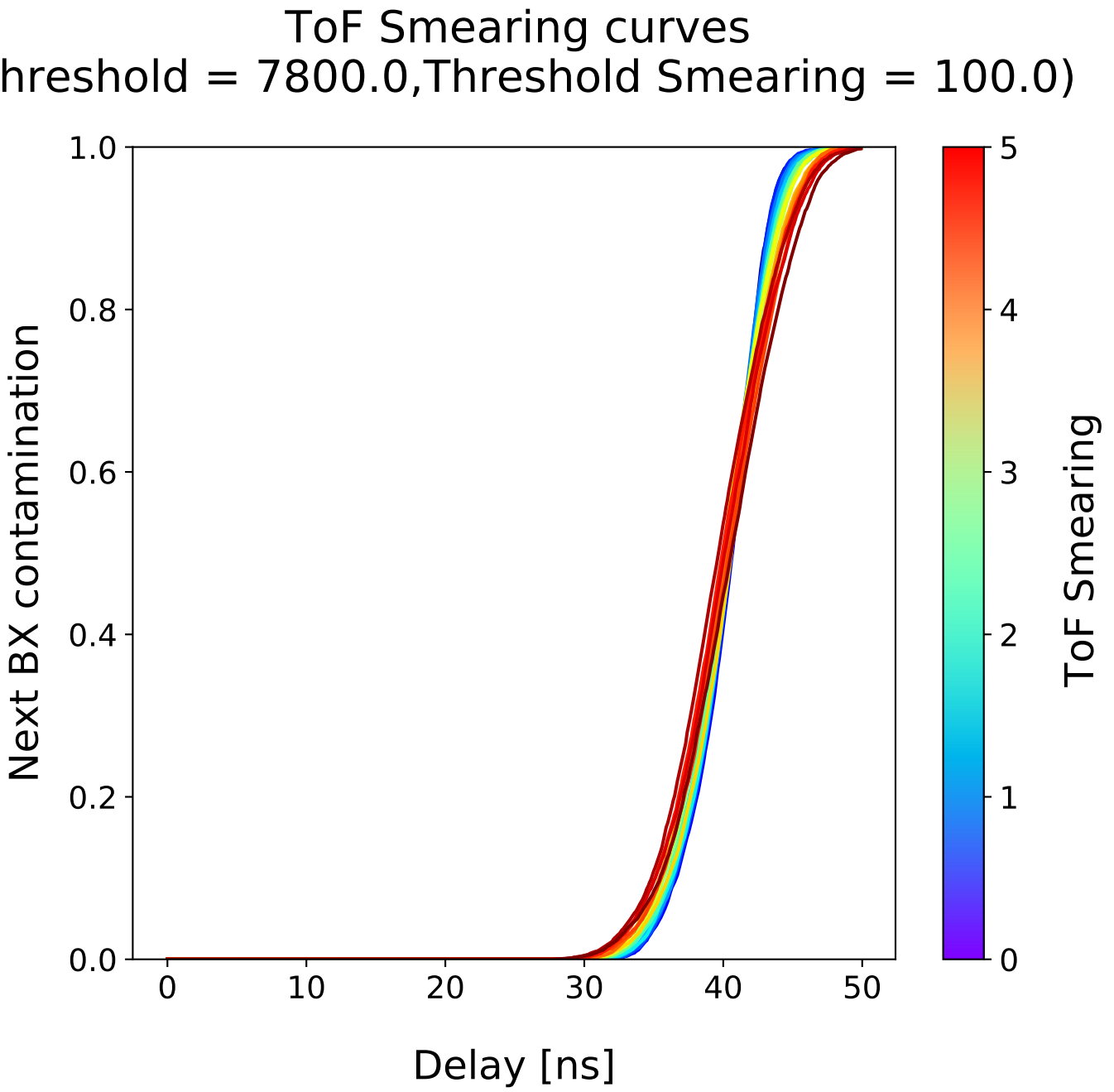

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

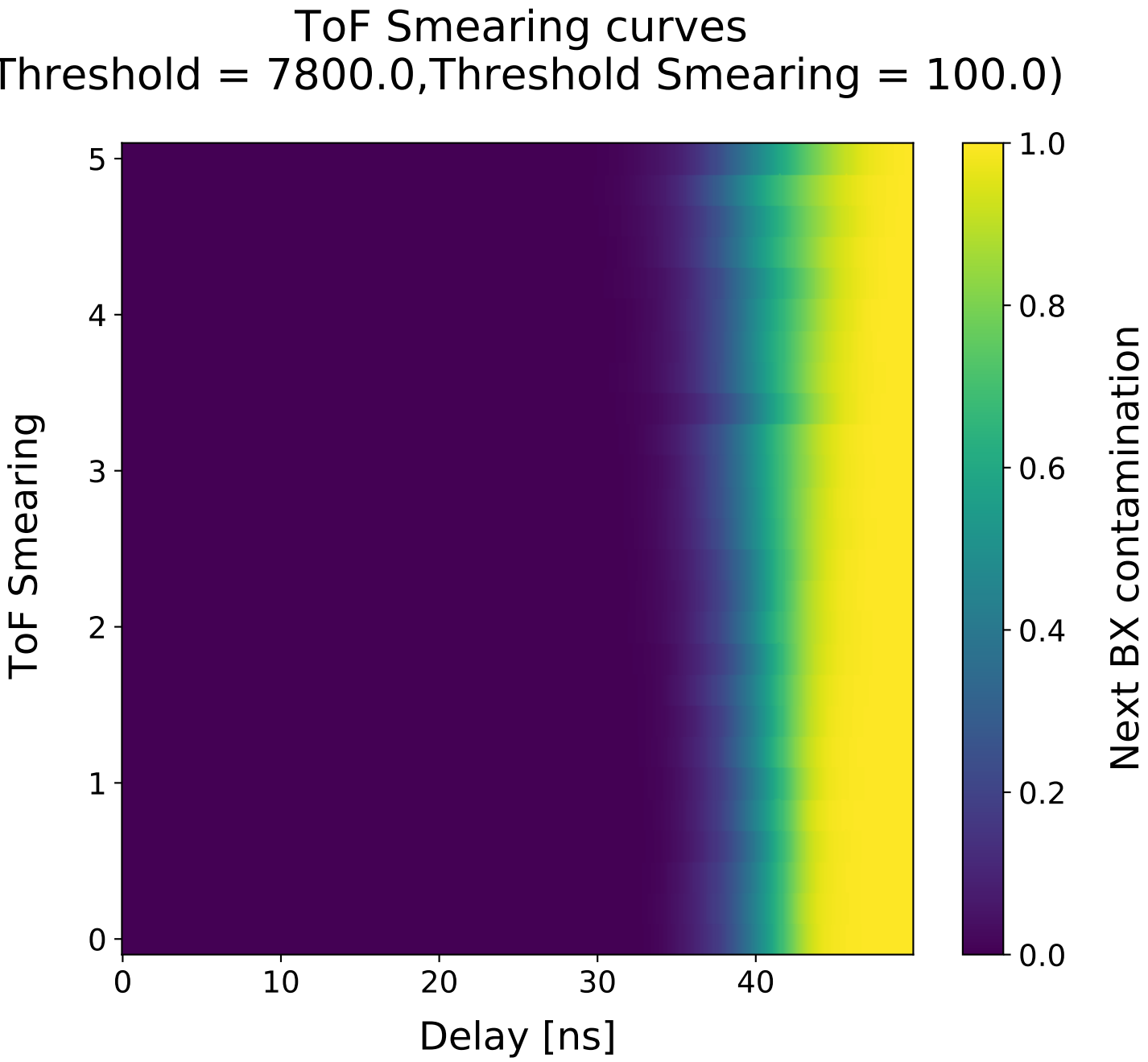

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

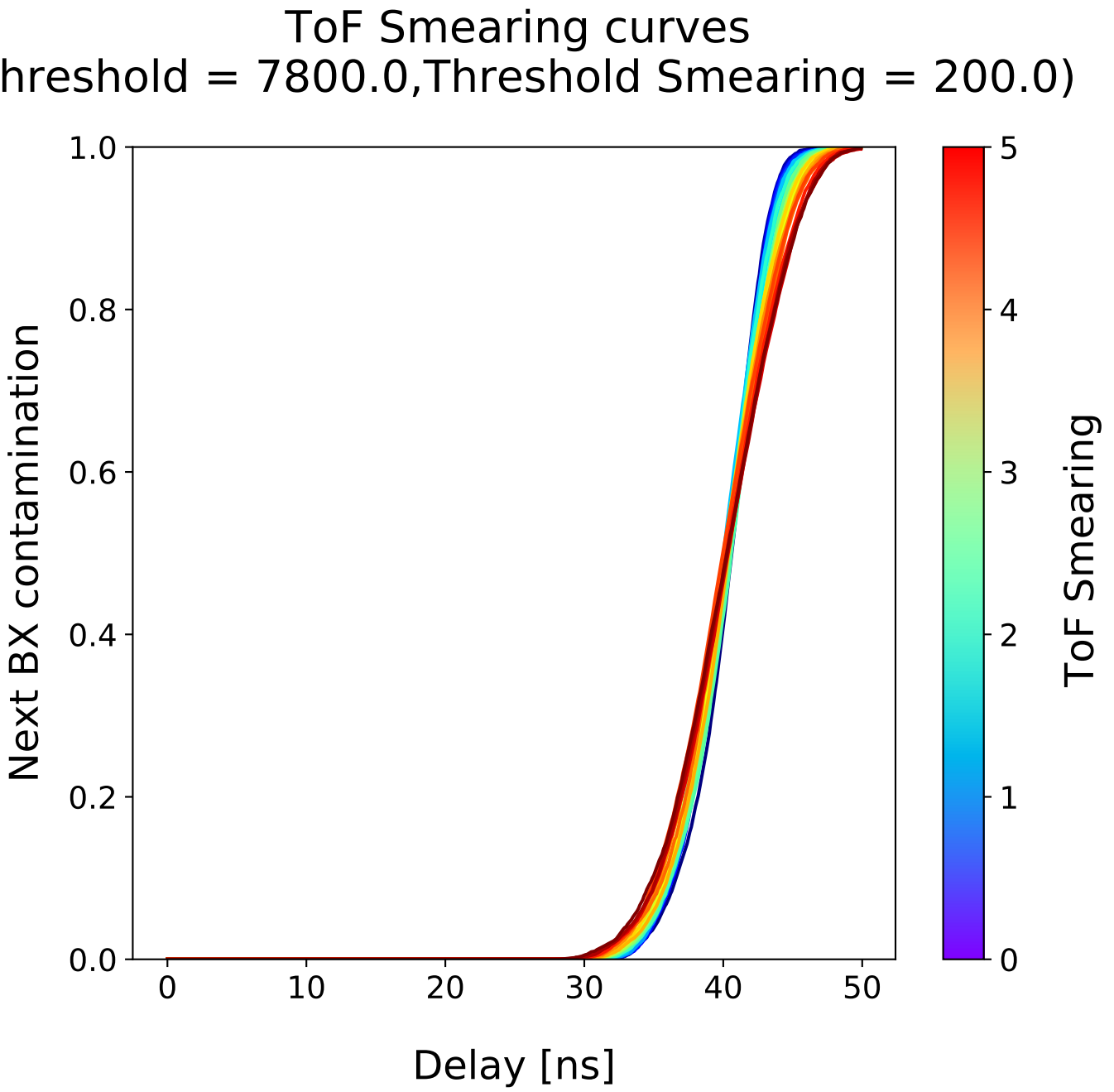

ToF Smearing curves
(Threshold = 7600.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

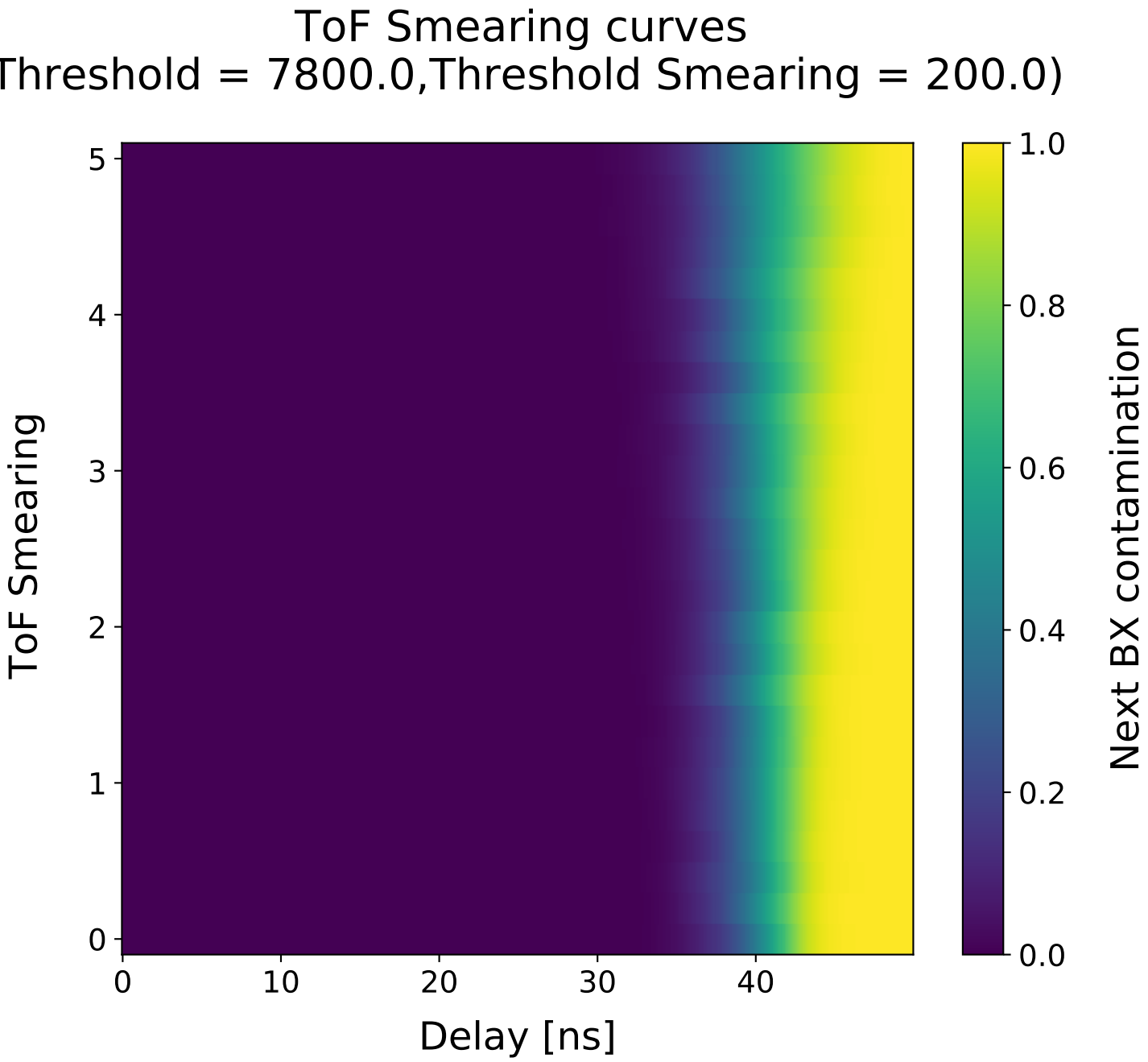

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

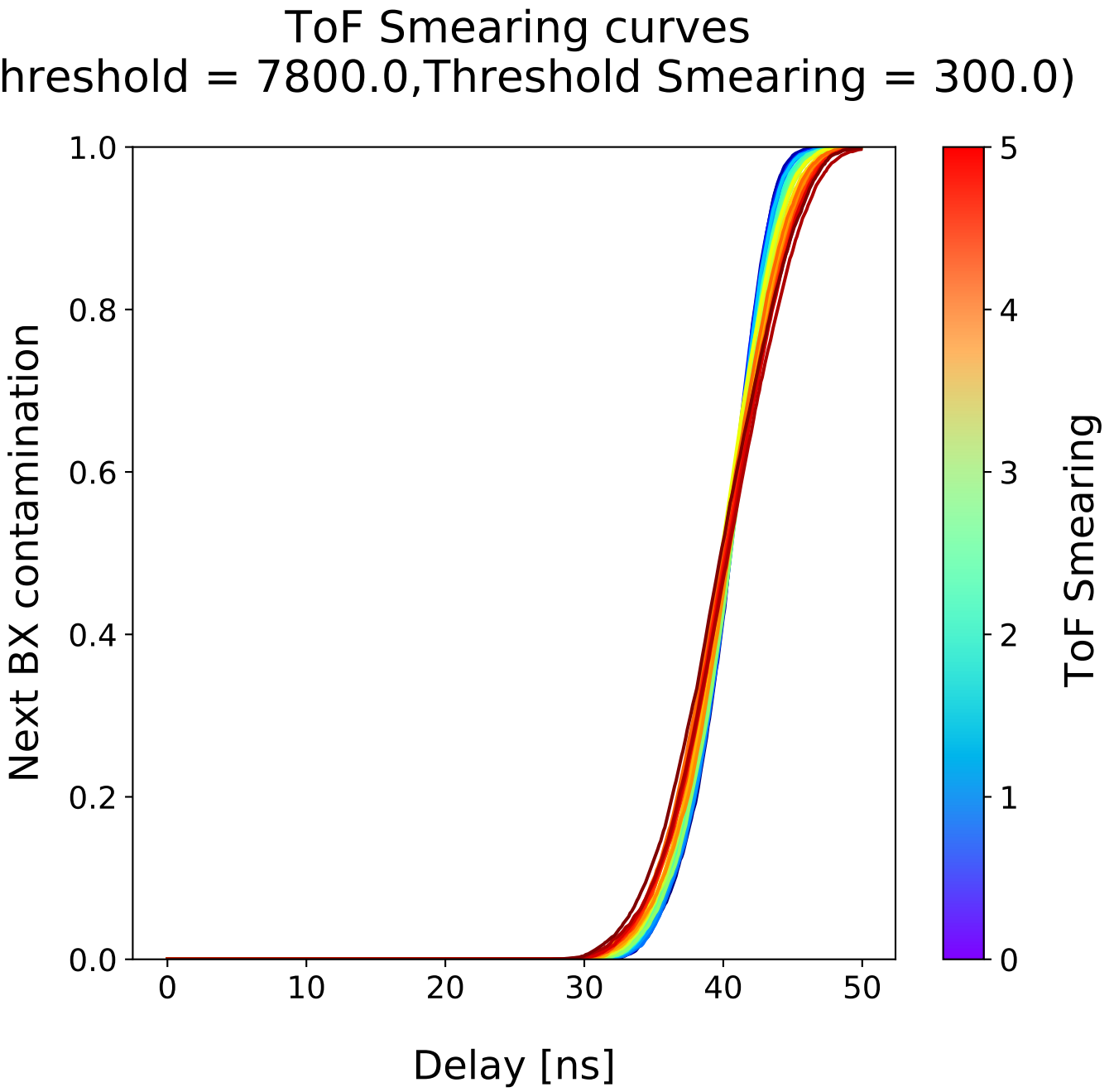

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

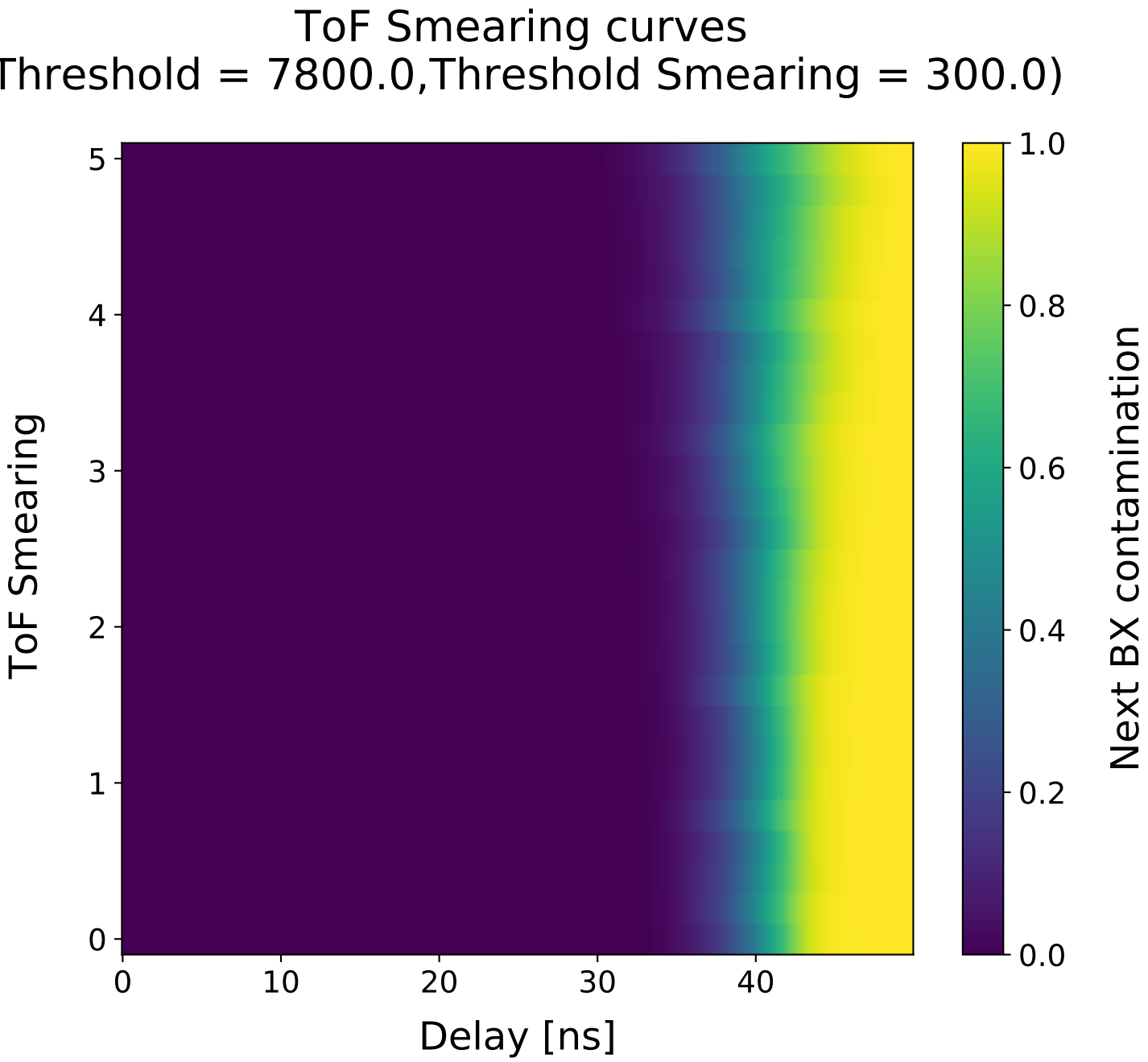

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

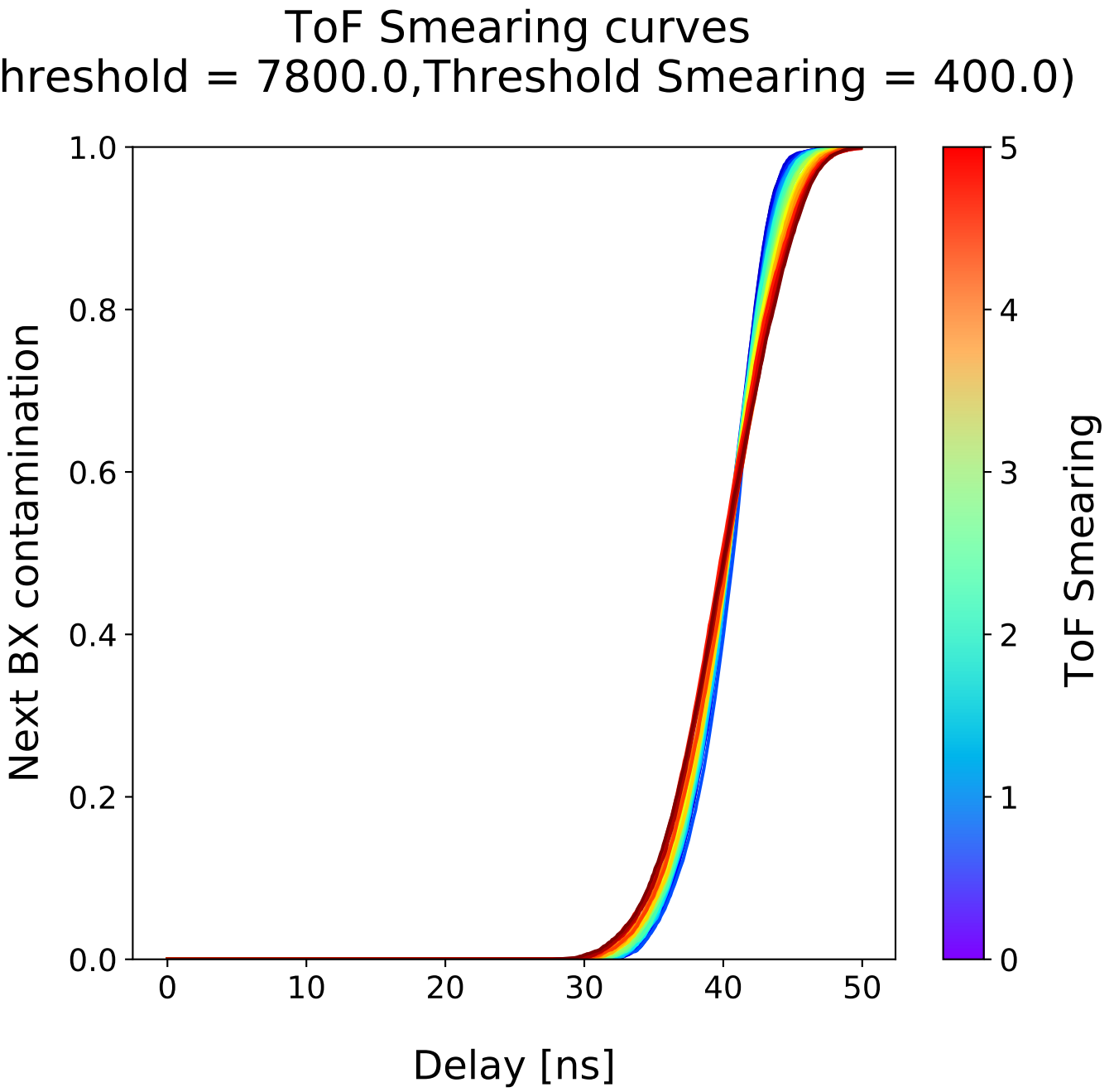

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

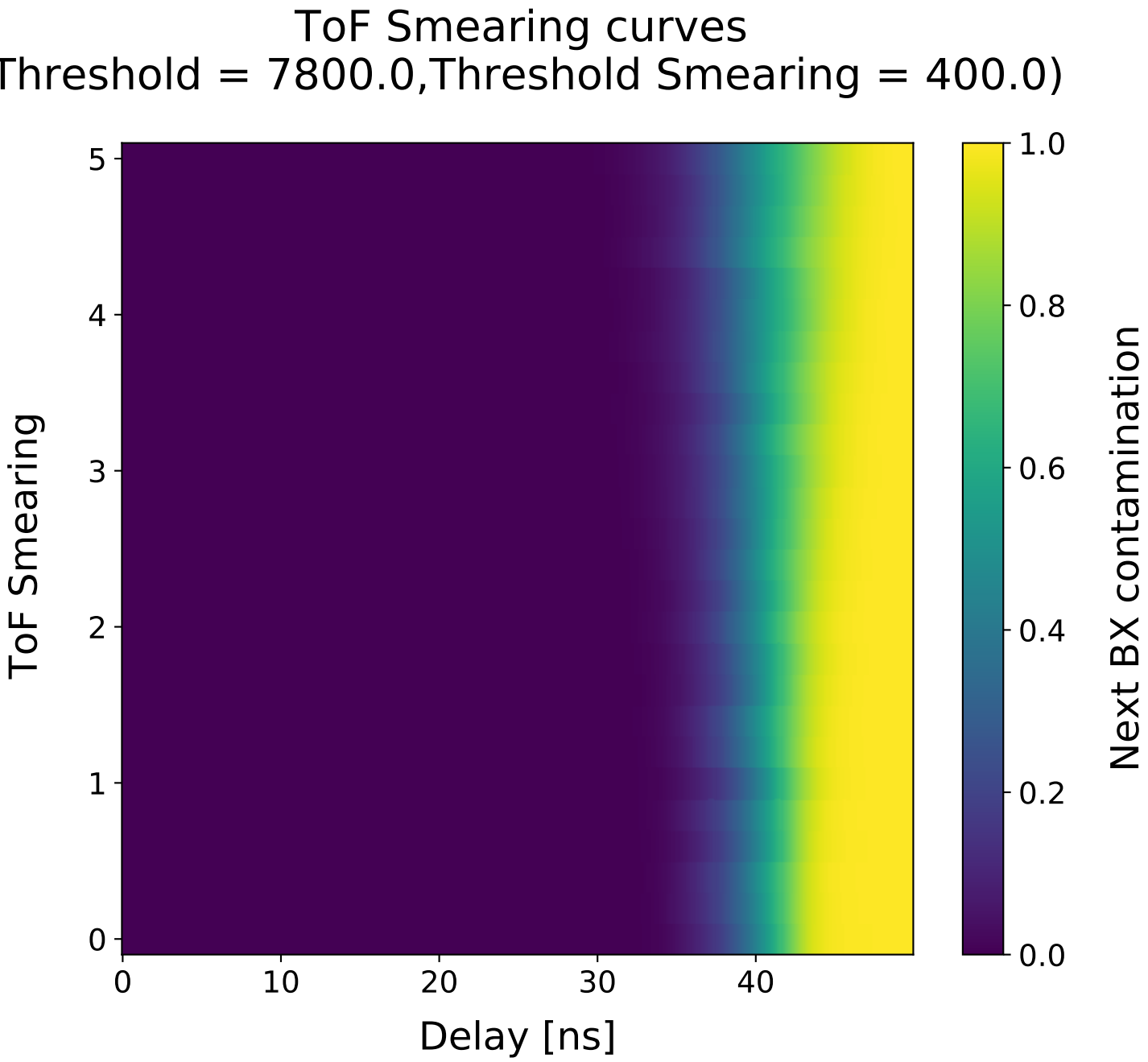

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

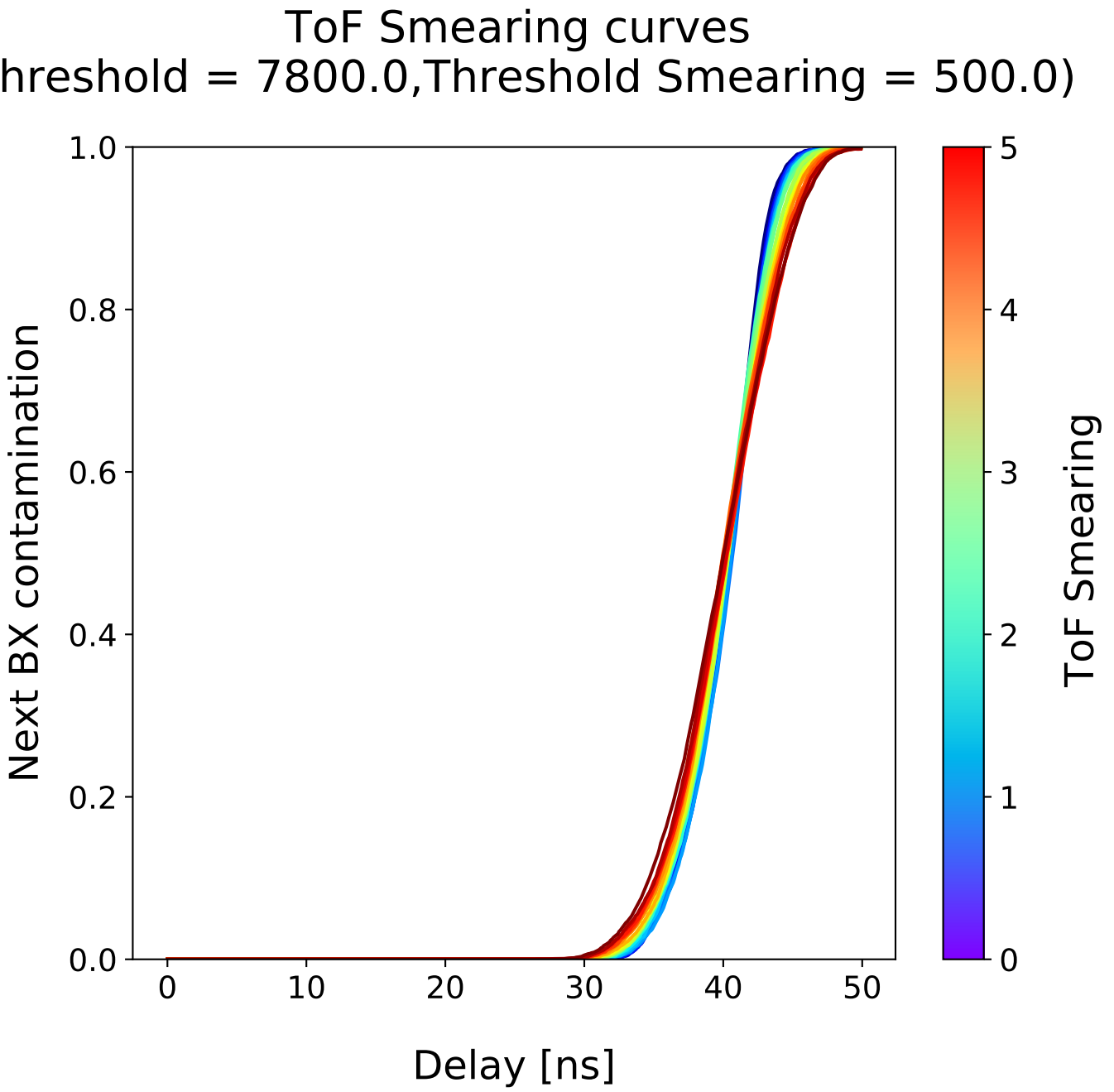

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

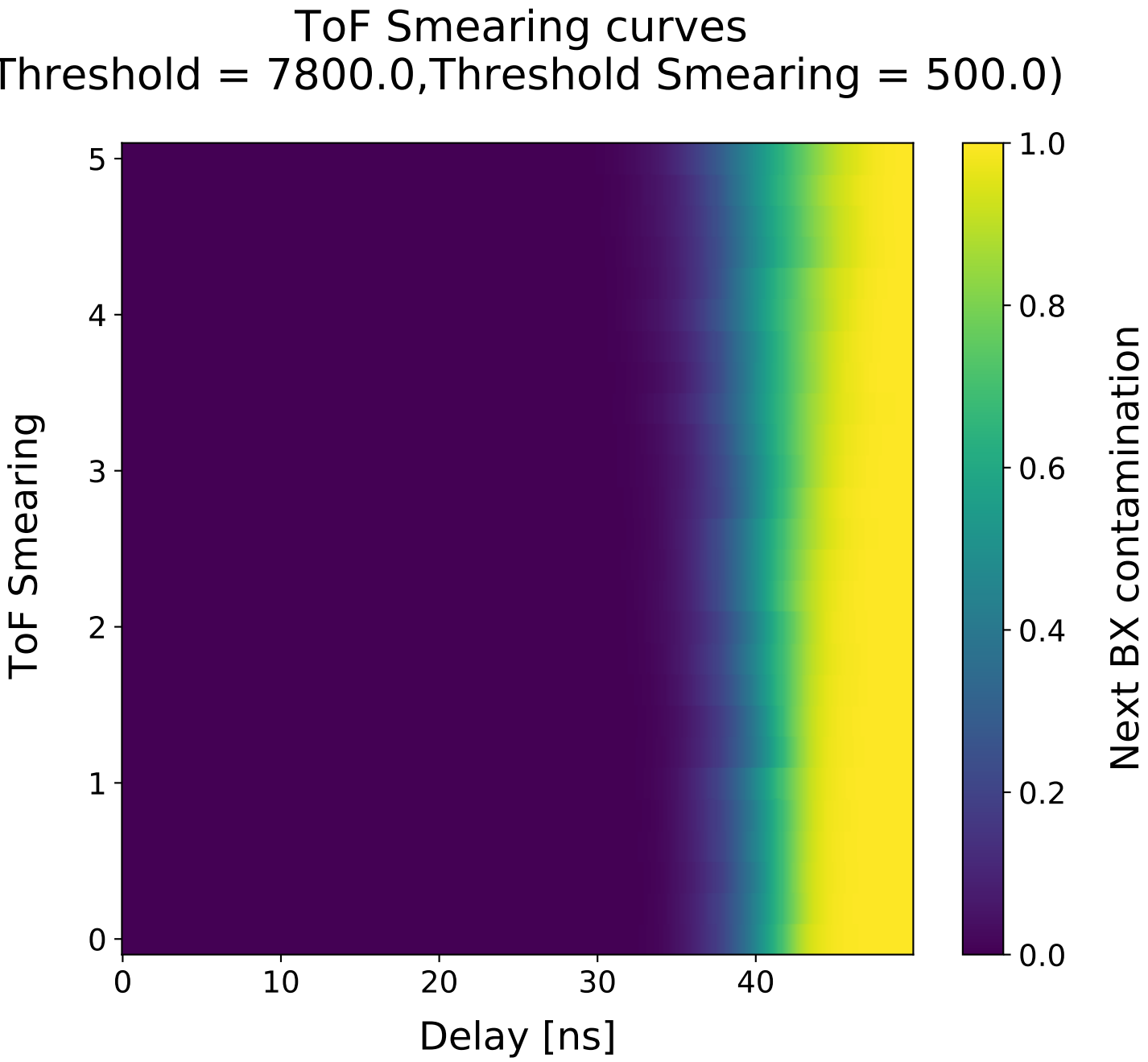

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

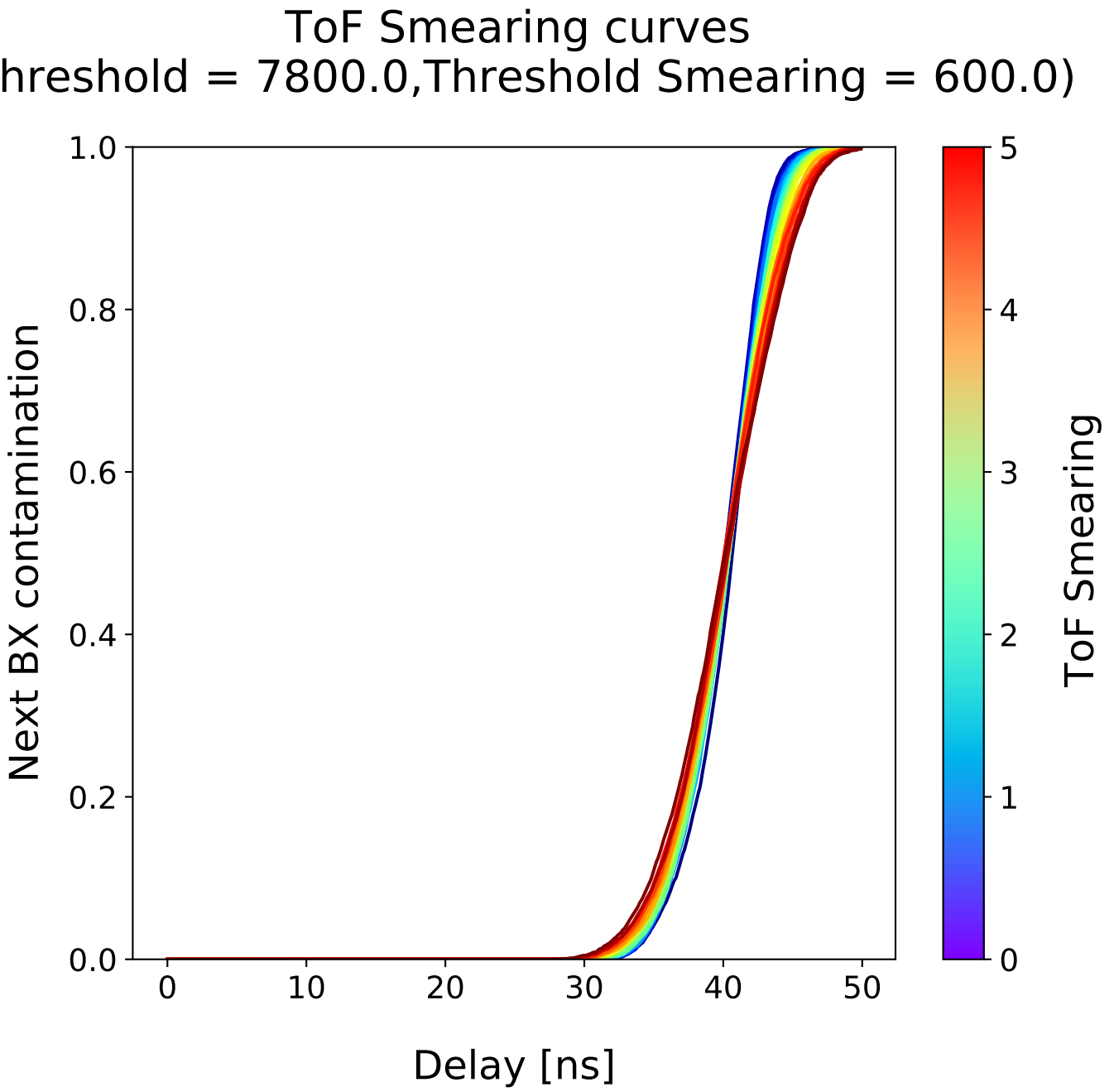

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

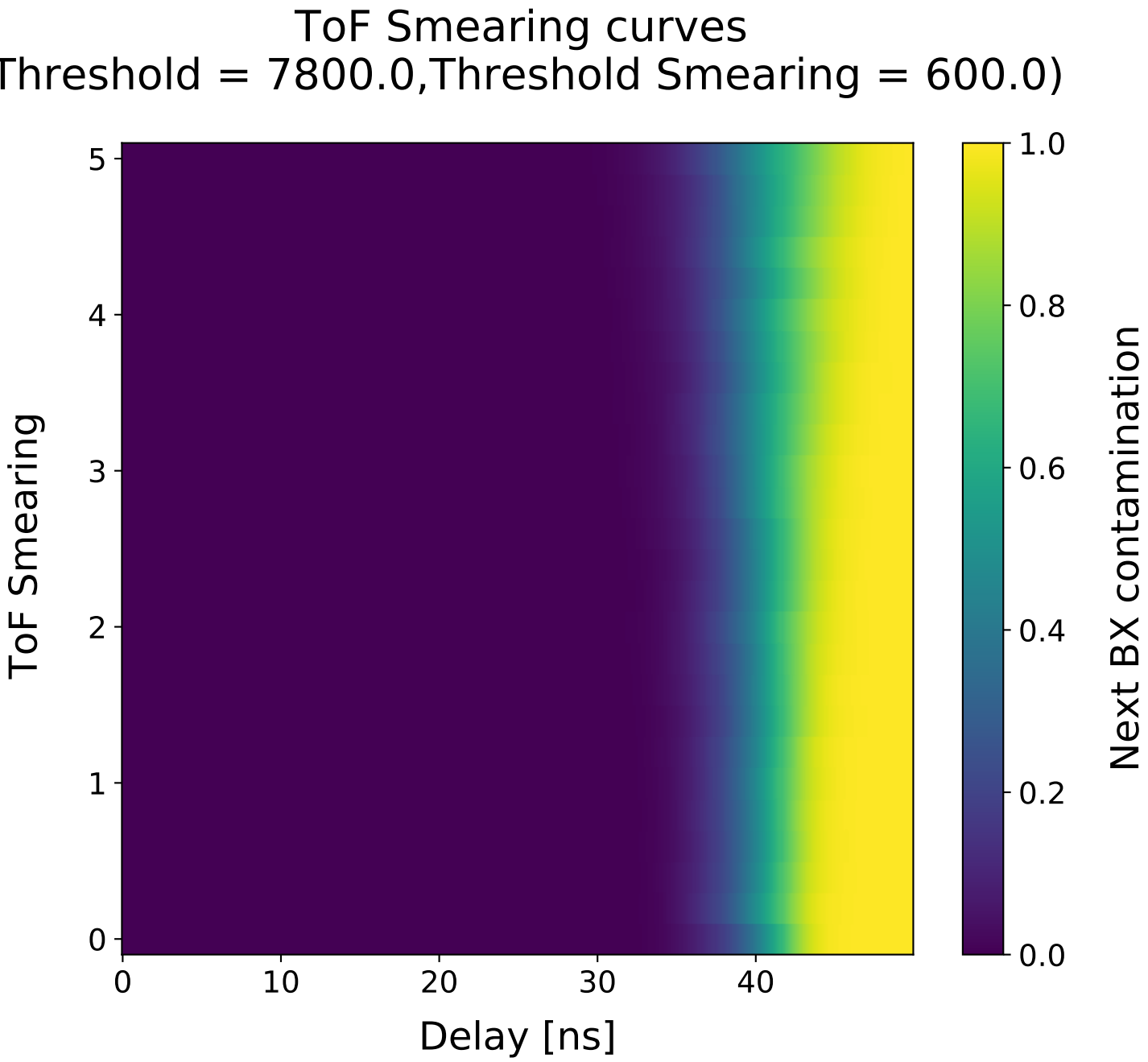

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

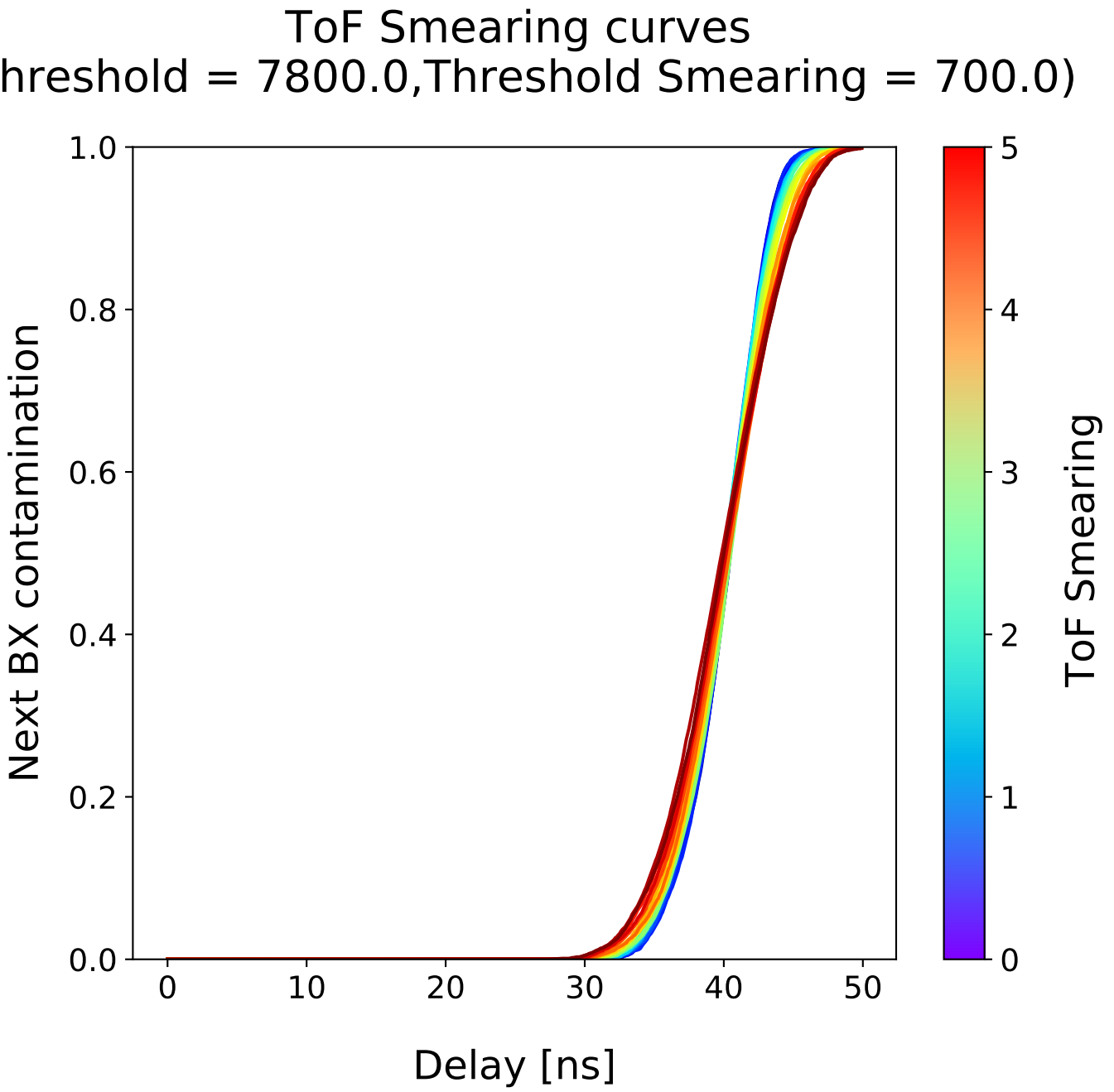

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

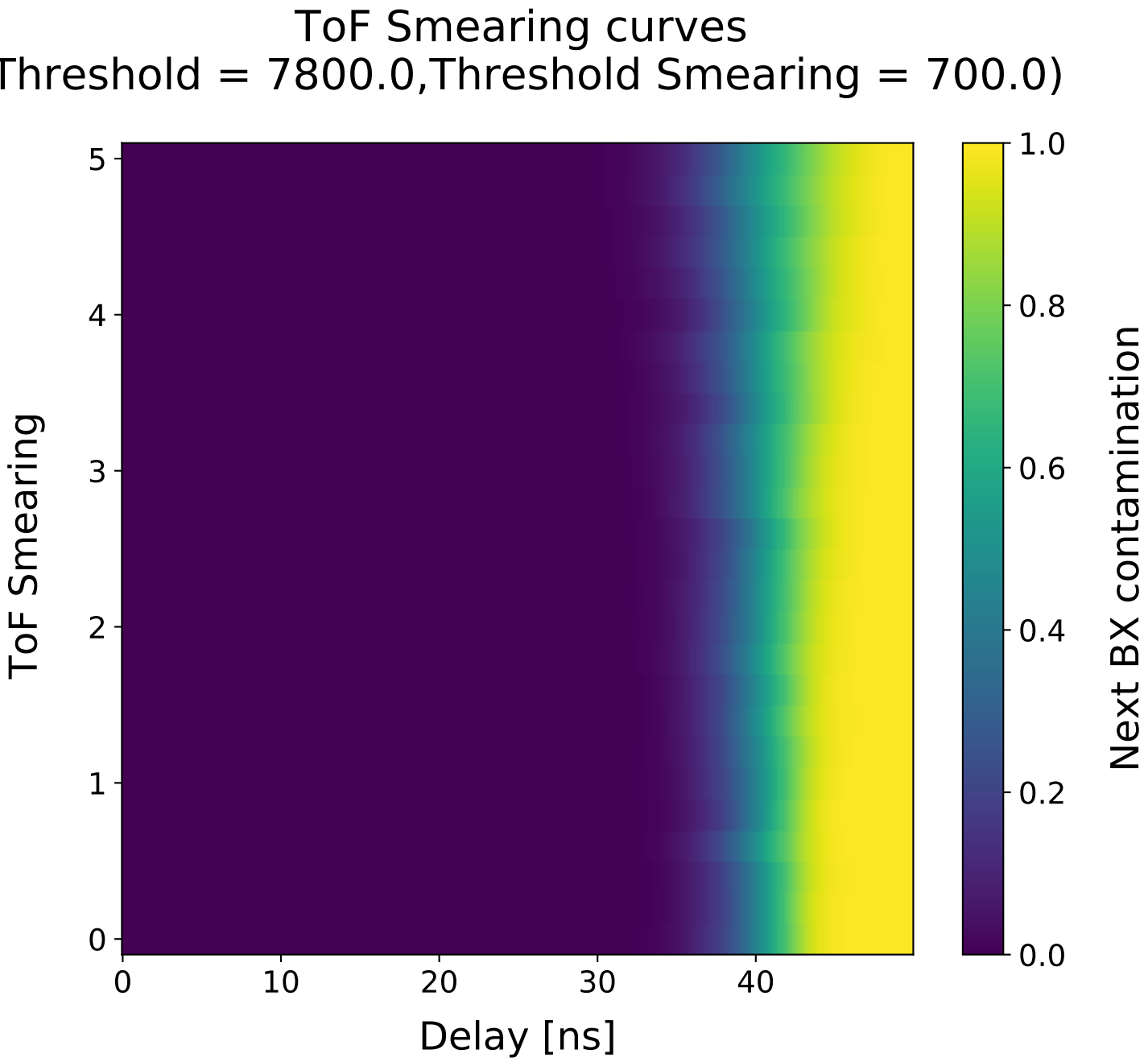

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

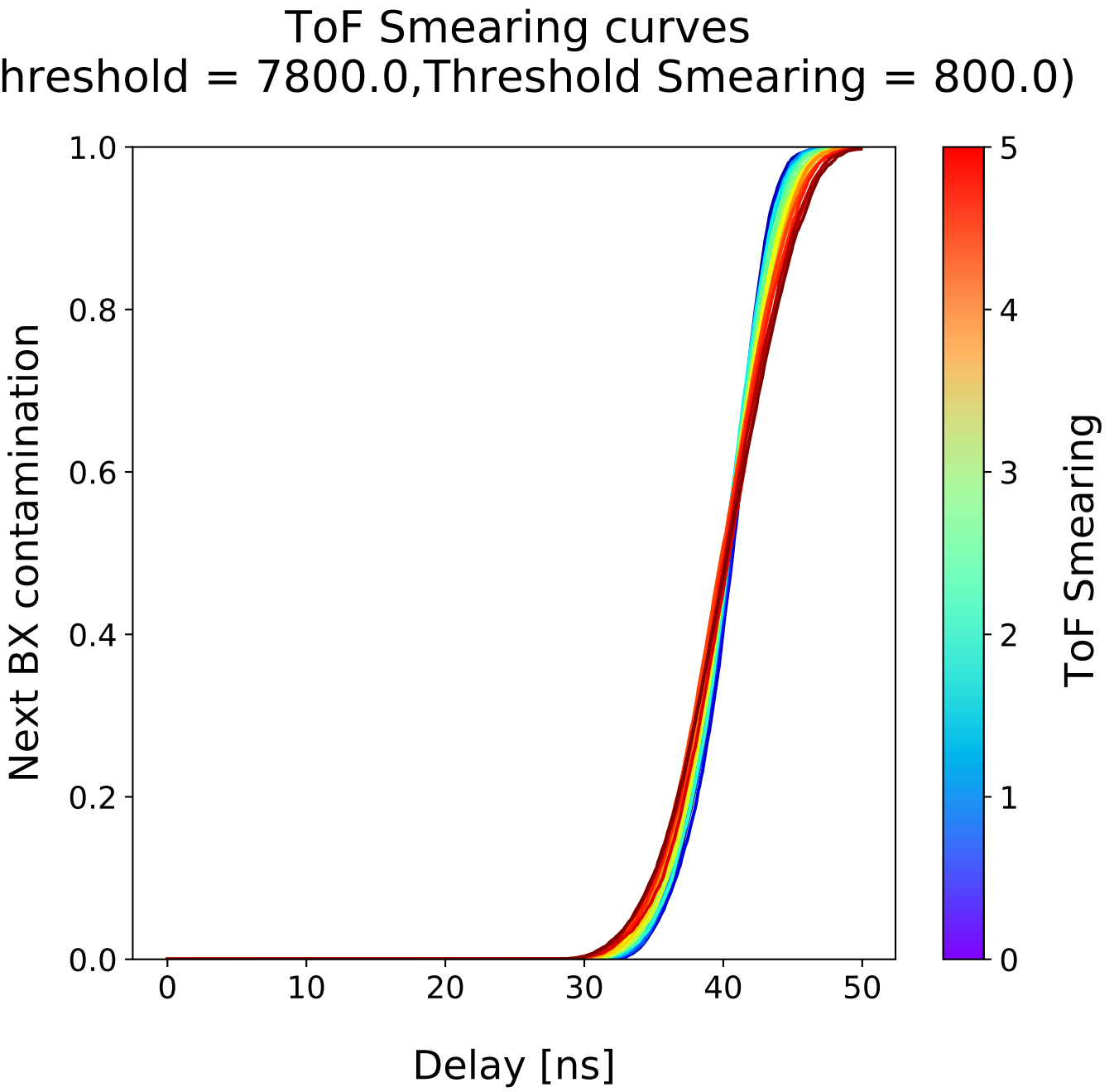

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

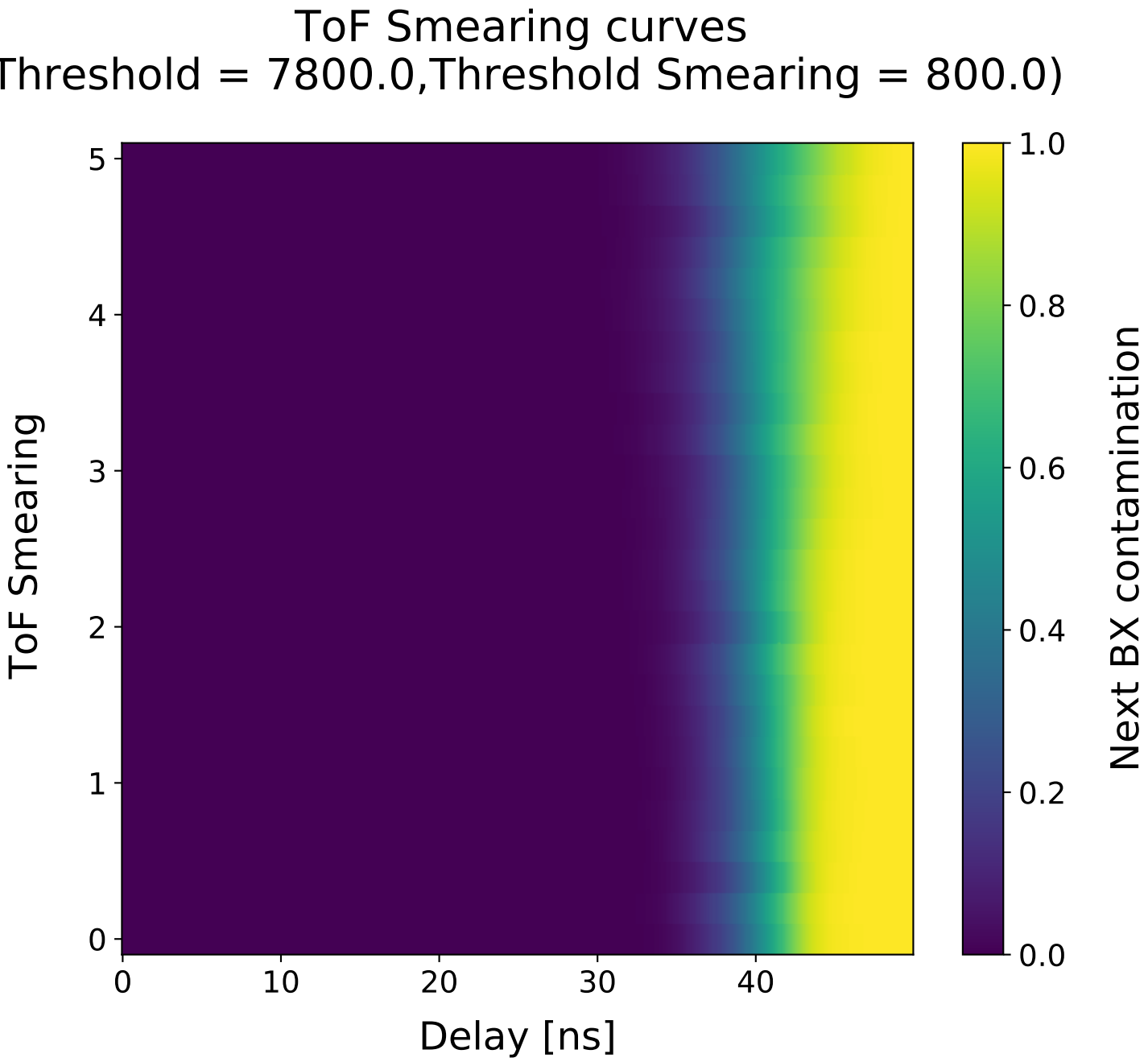

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

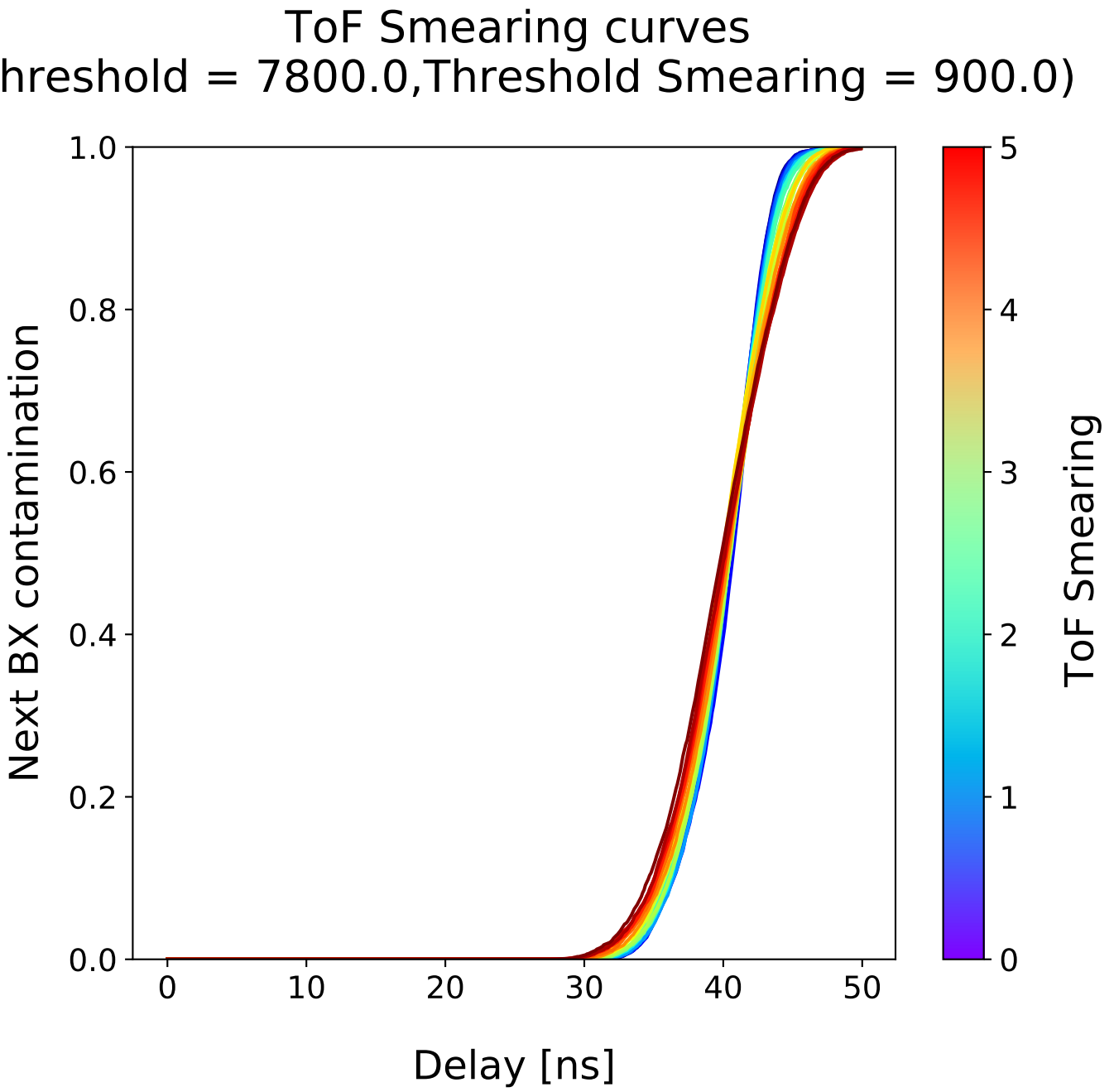

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

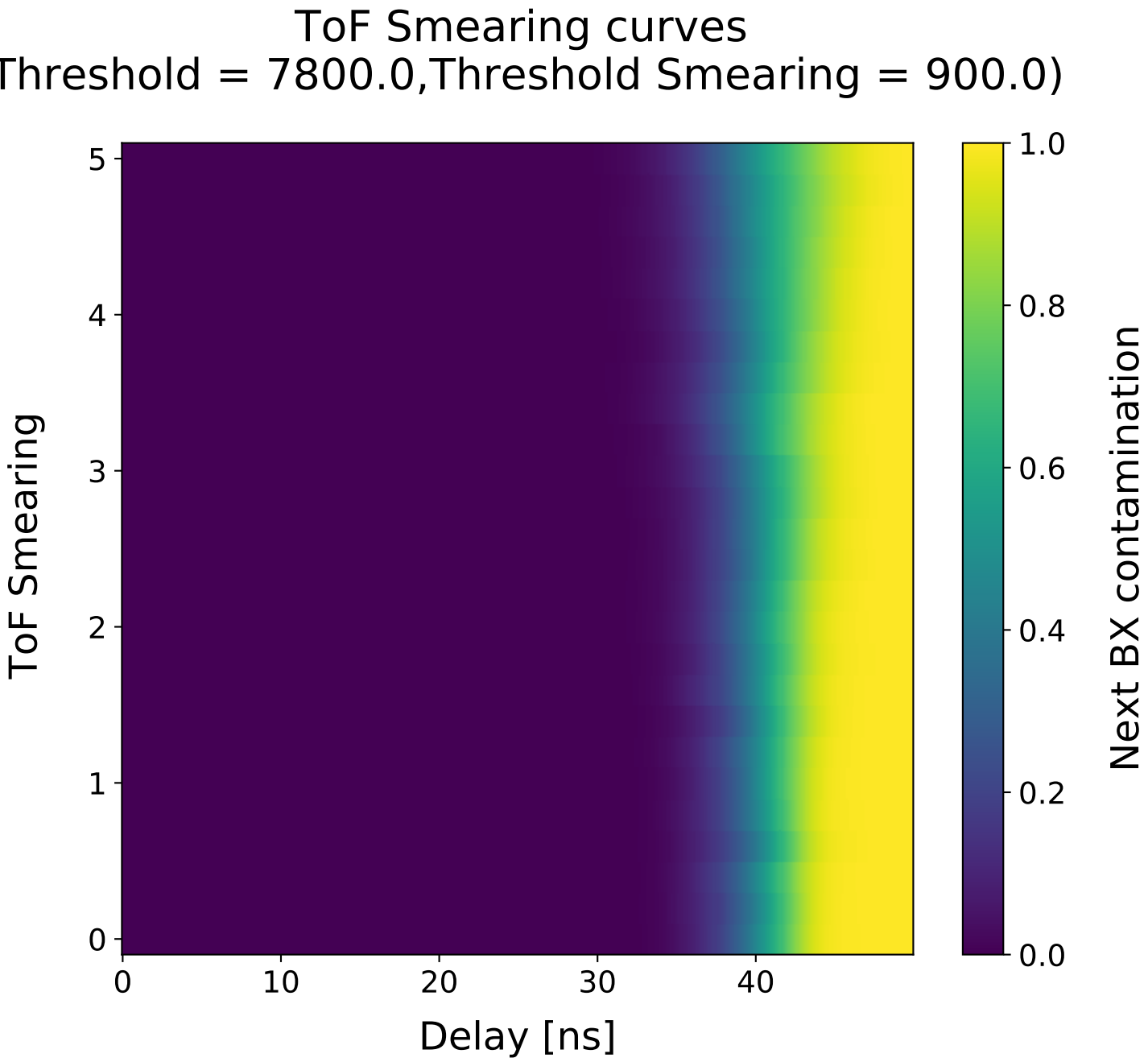

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

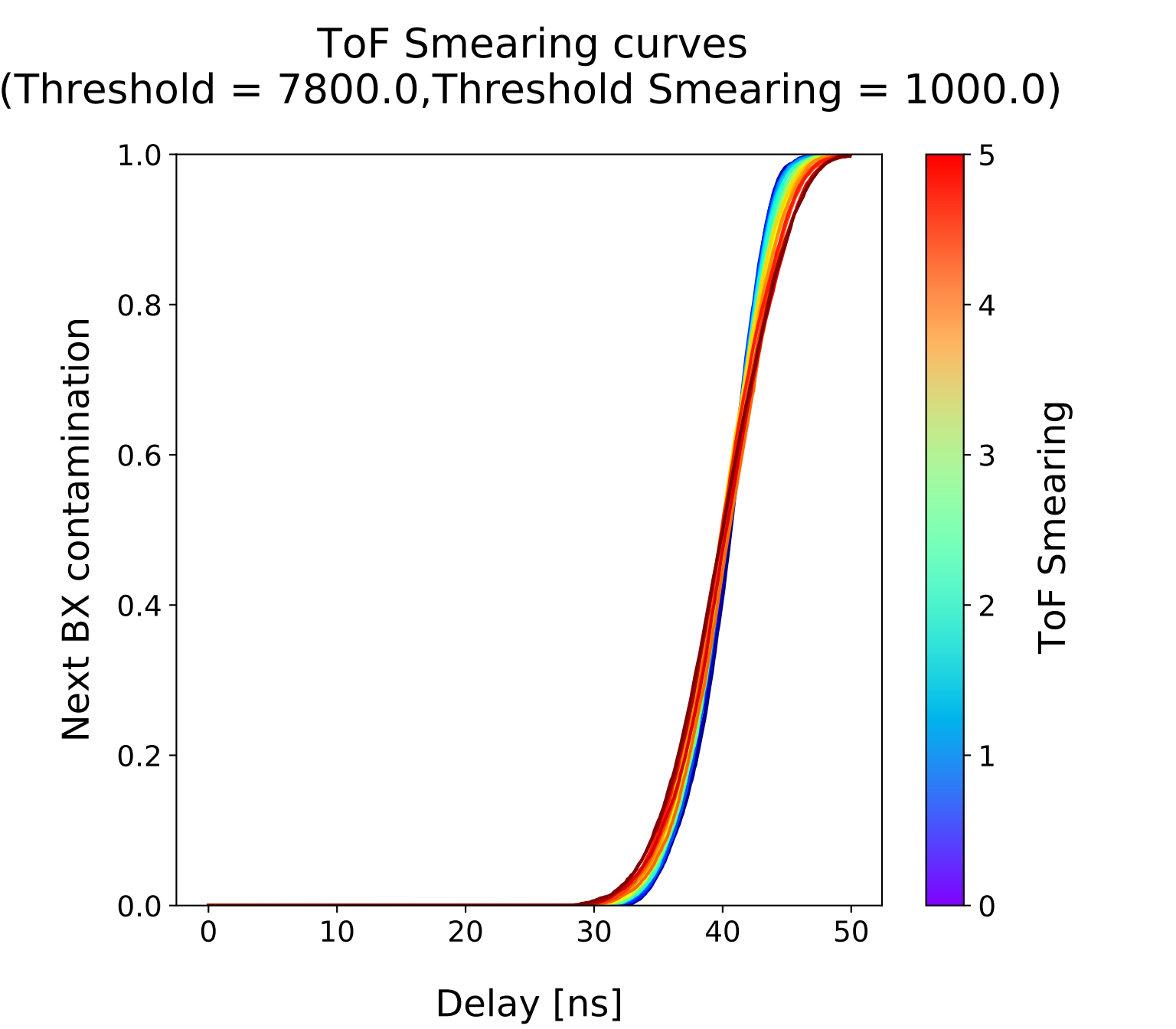

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

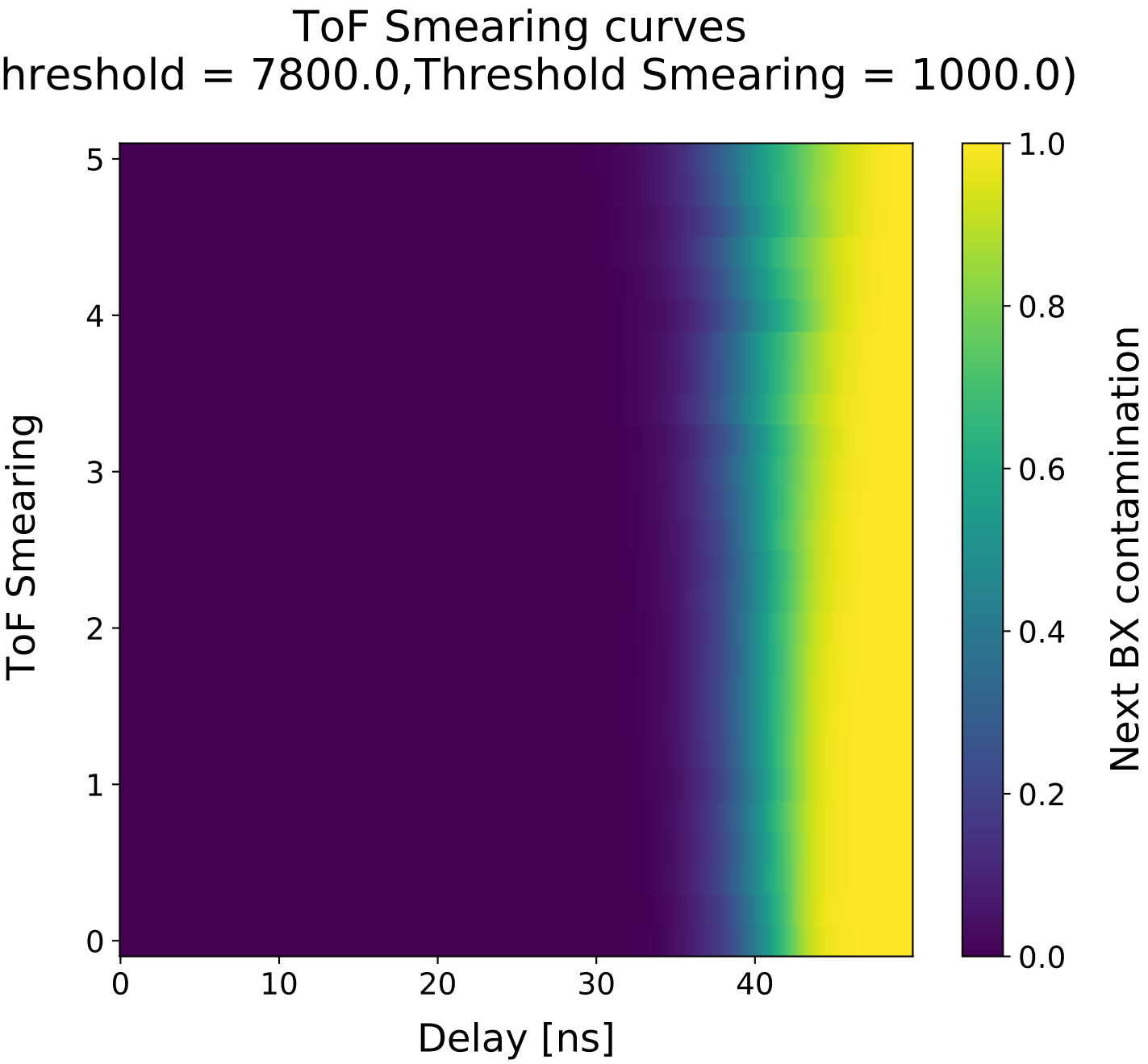

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

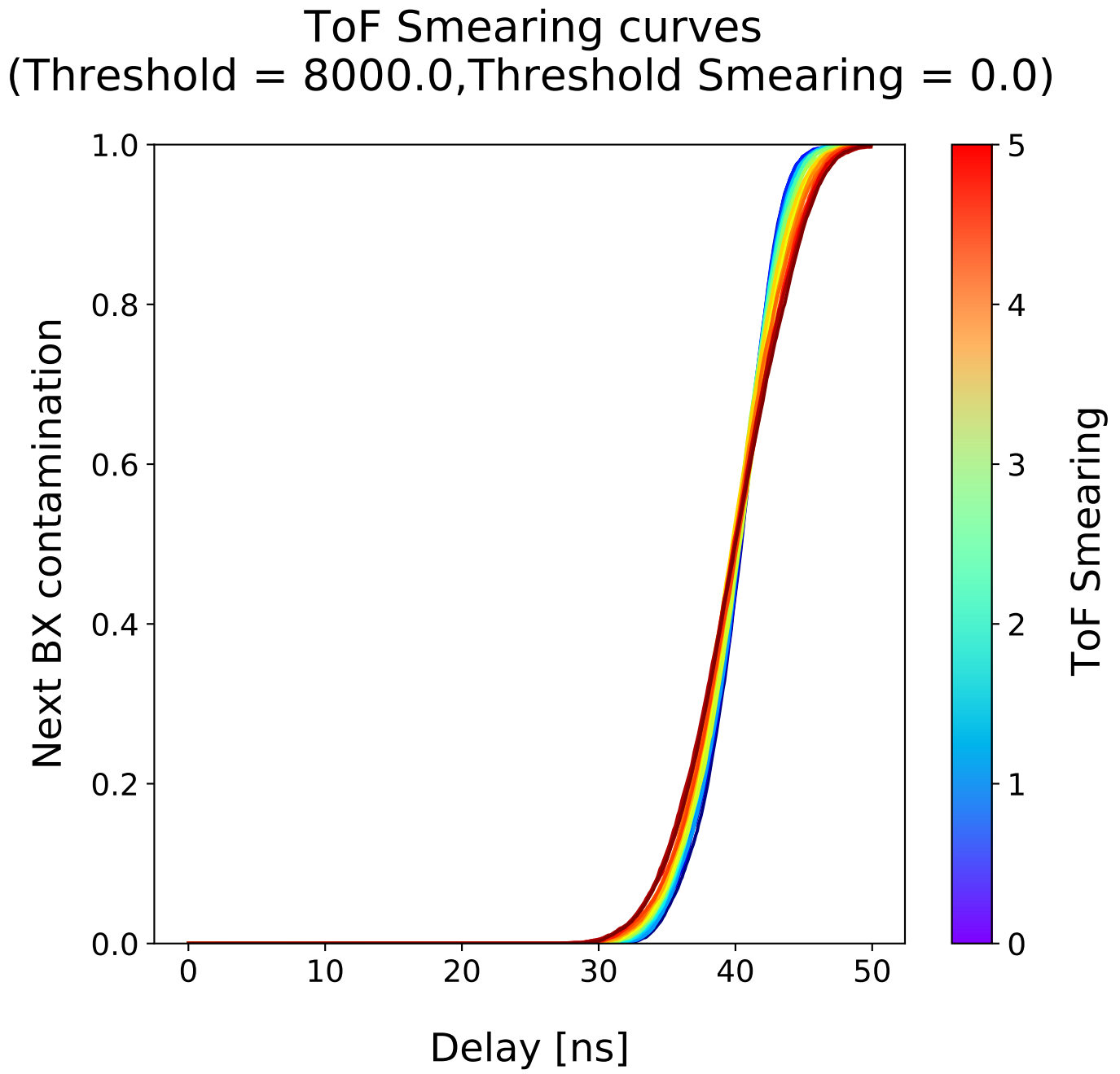

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

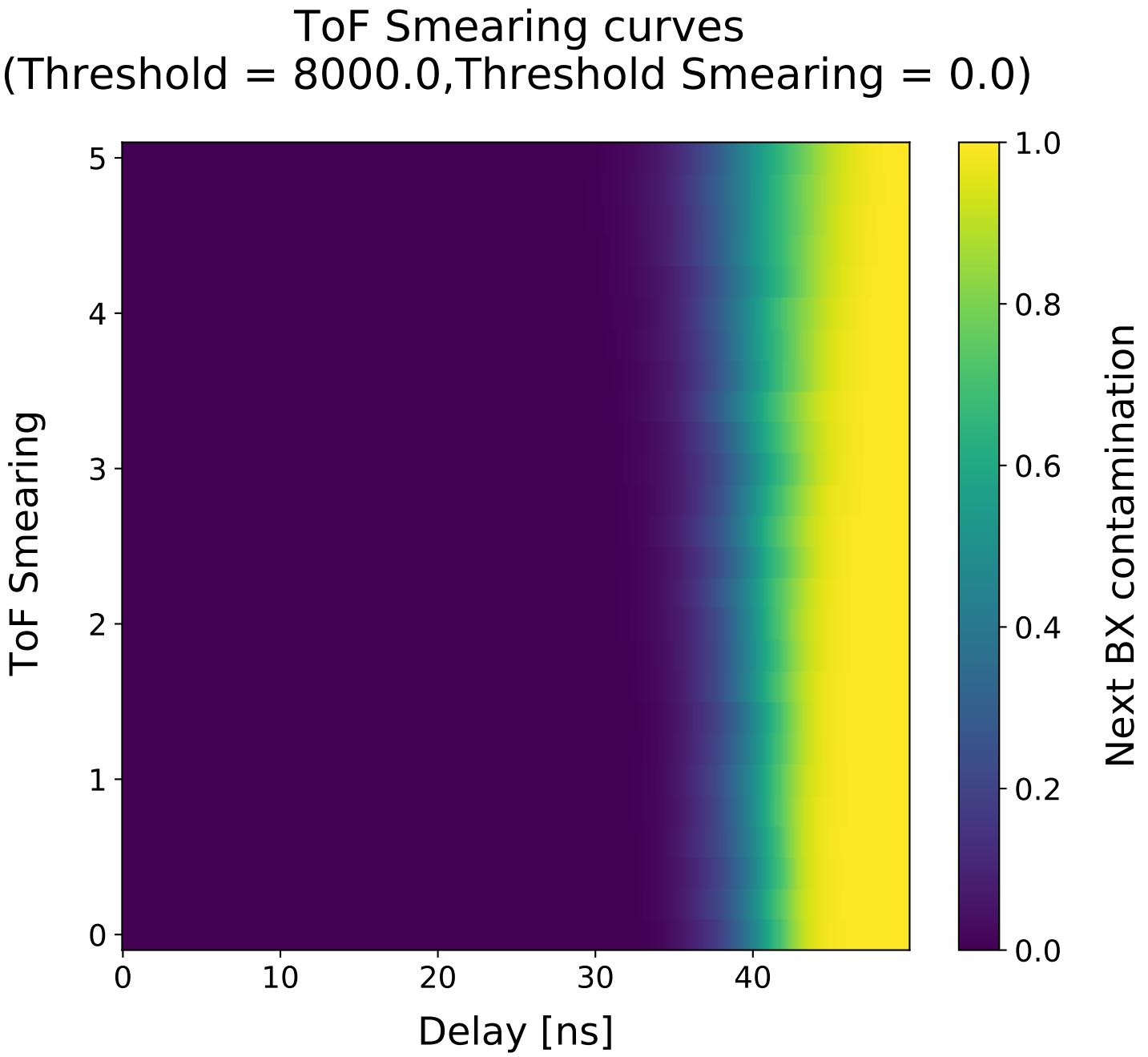

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

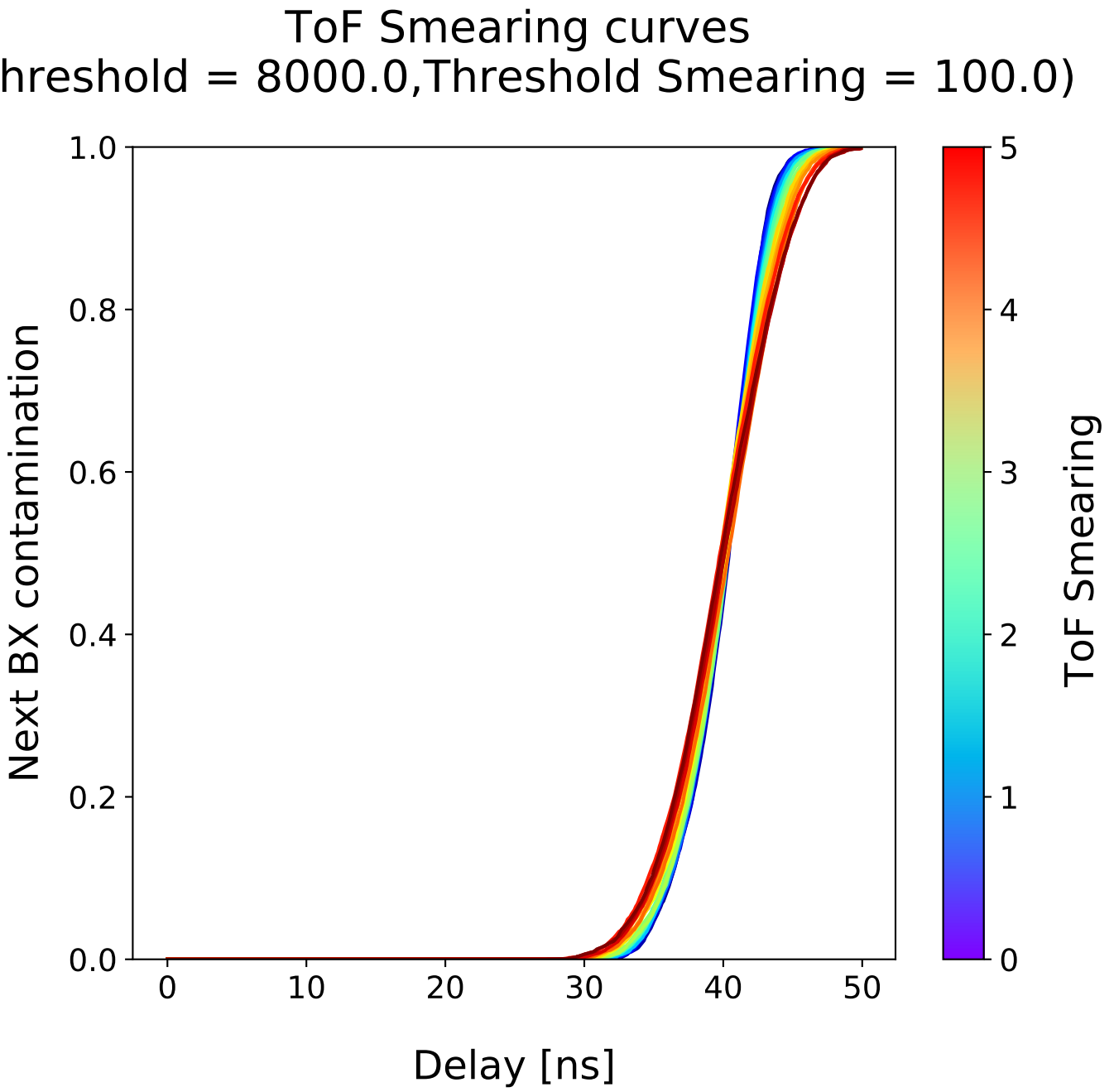

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

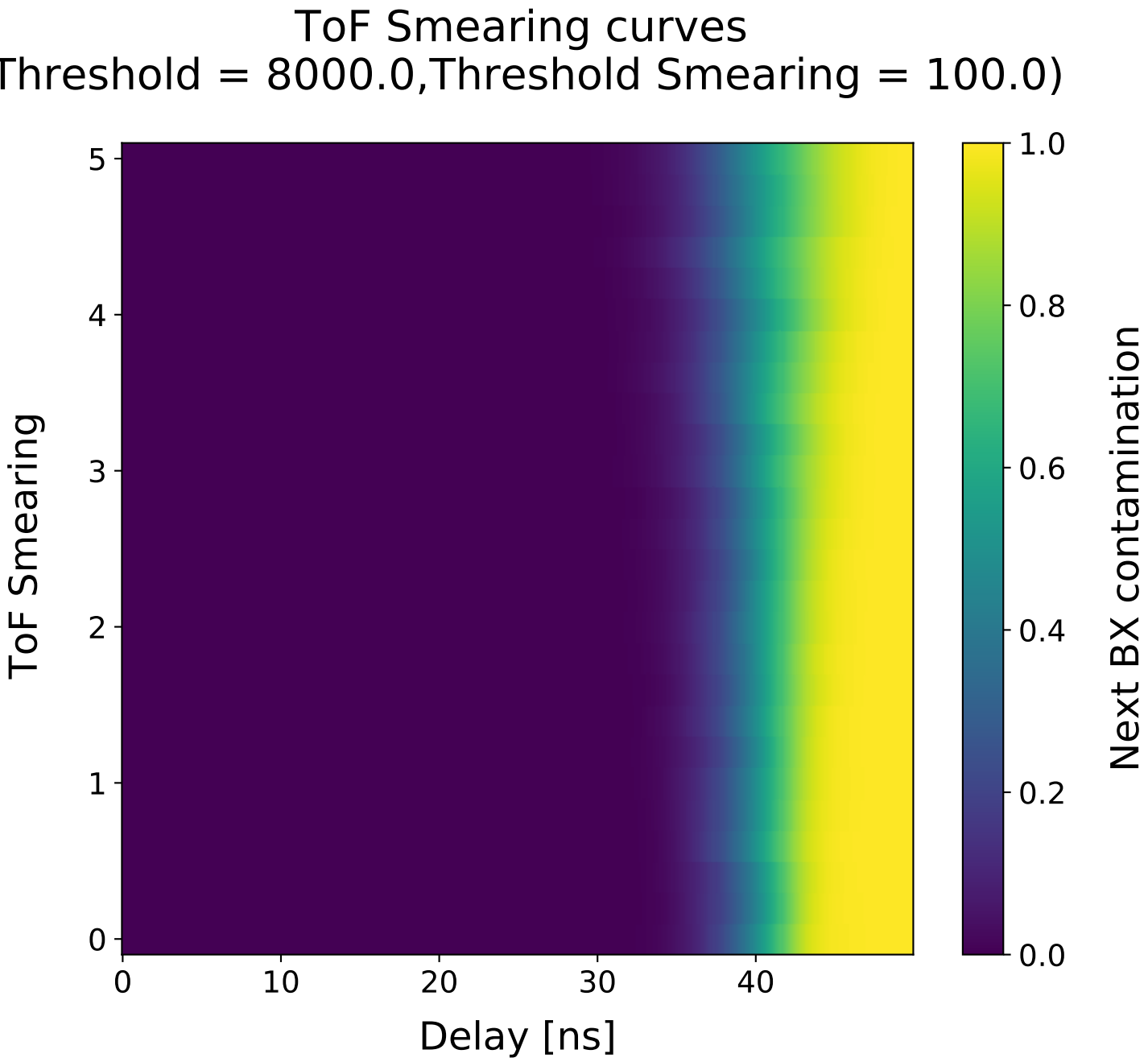

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

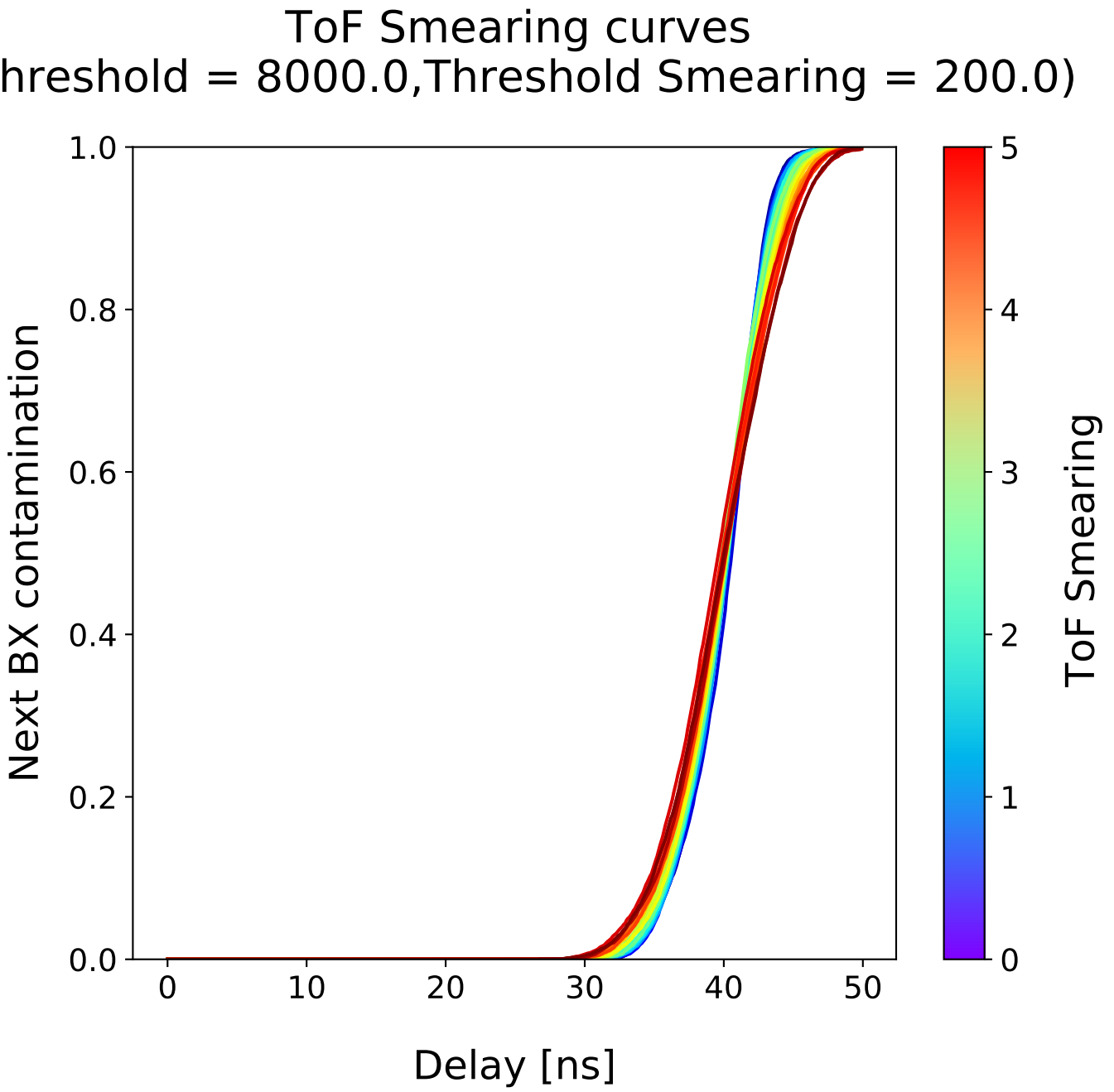

ToF Smearing curves
(Threshold = 7800.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

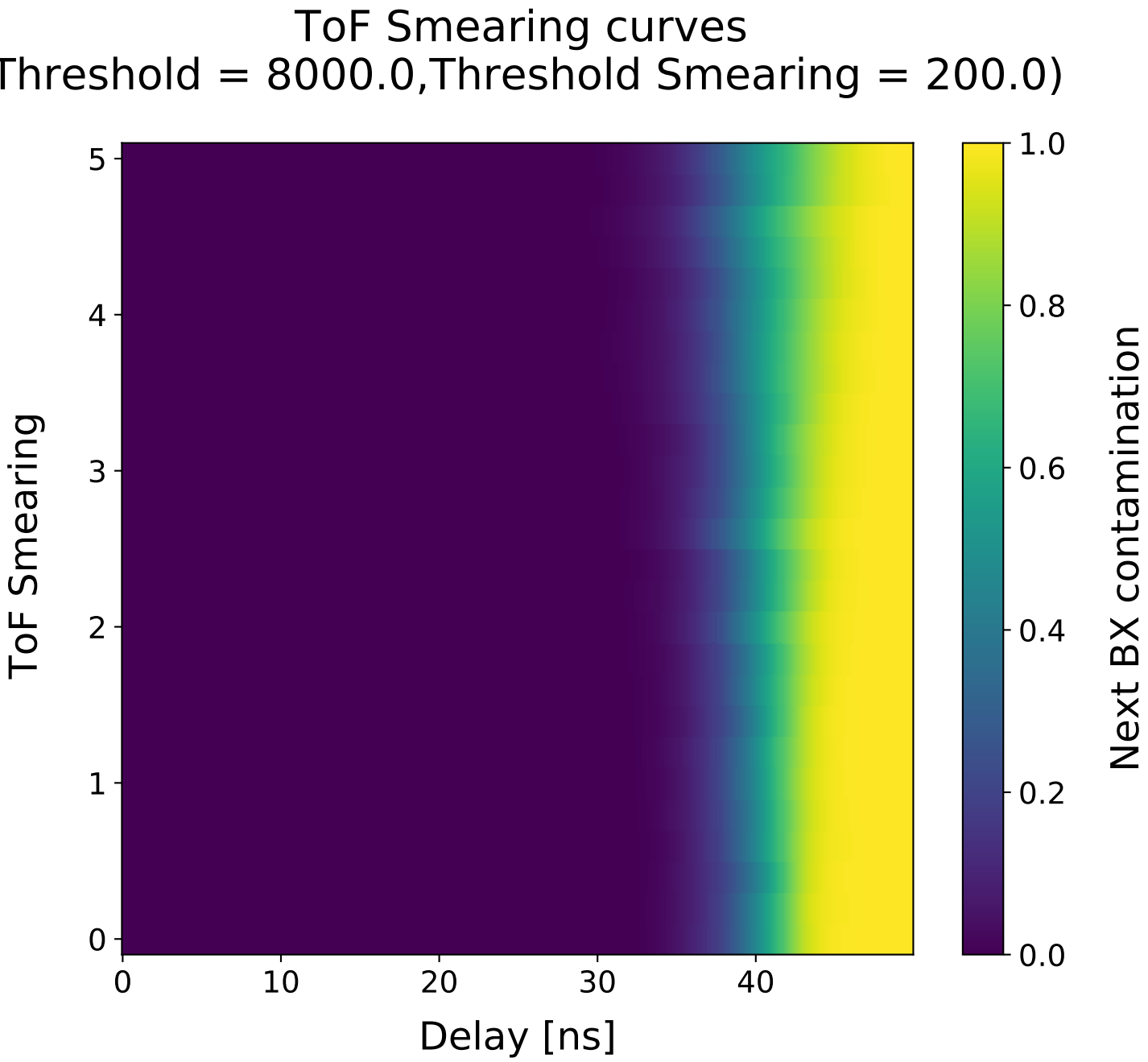

ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 0.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

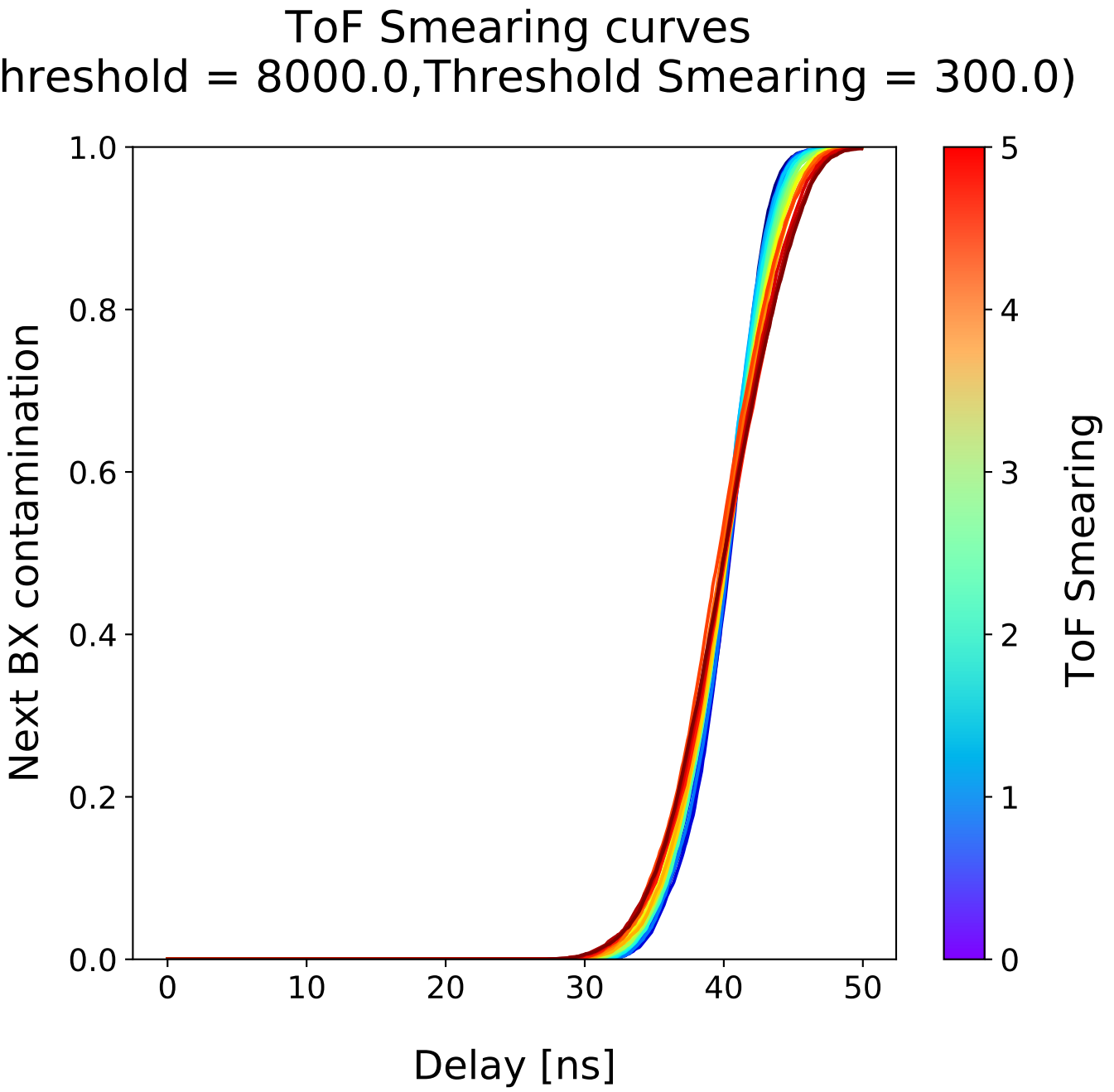

ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 0.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

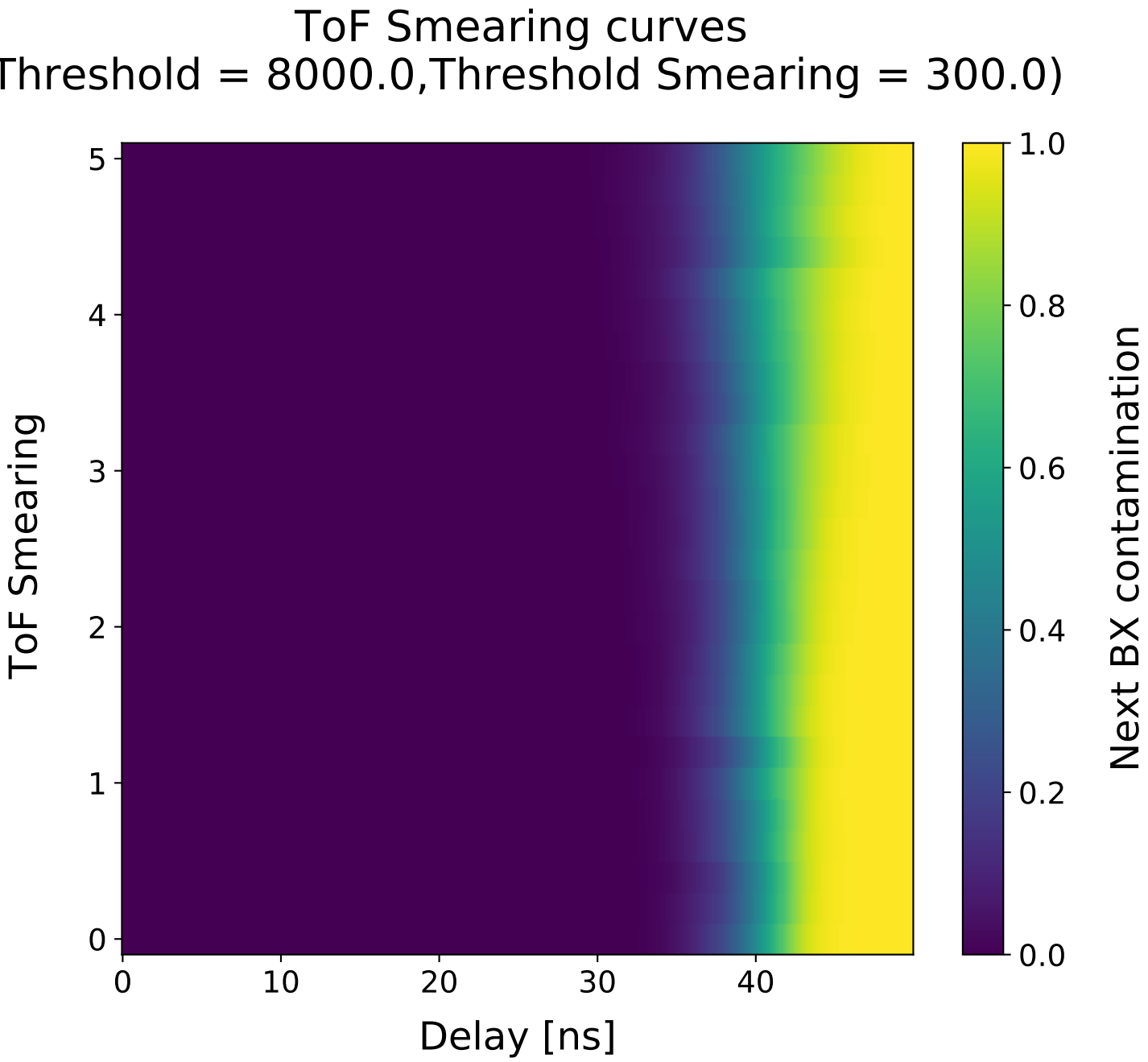

ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 100.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

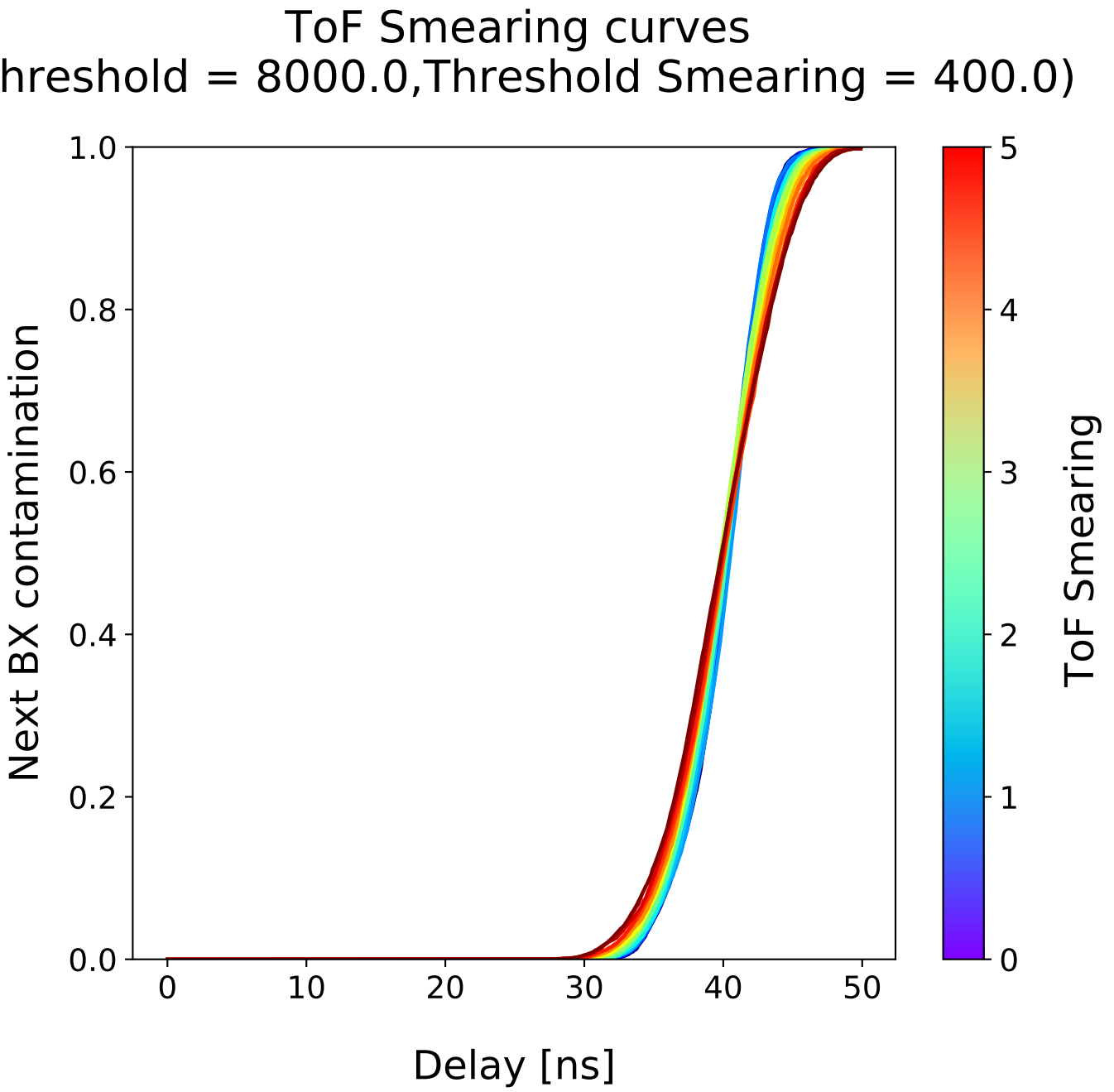

ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 100.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

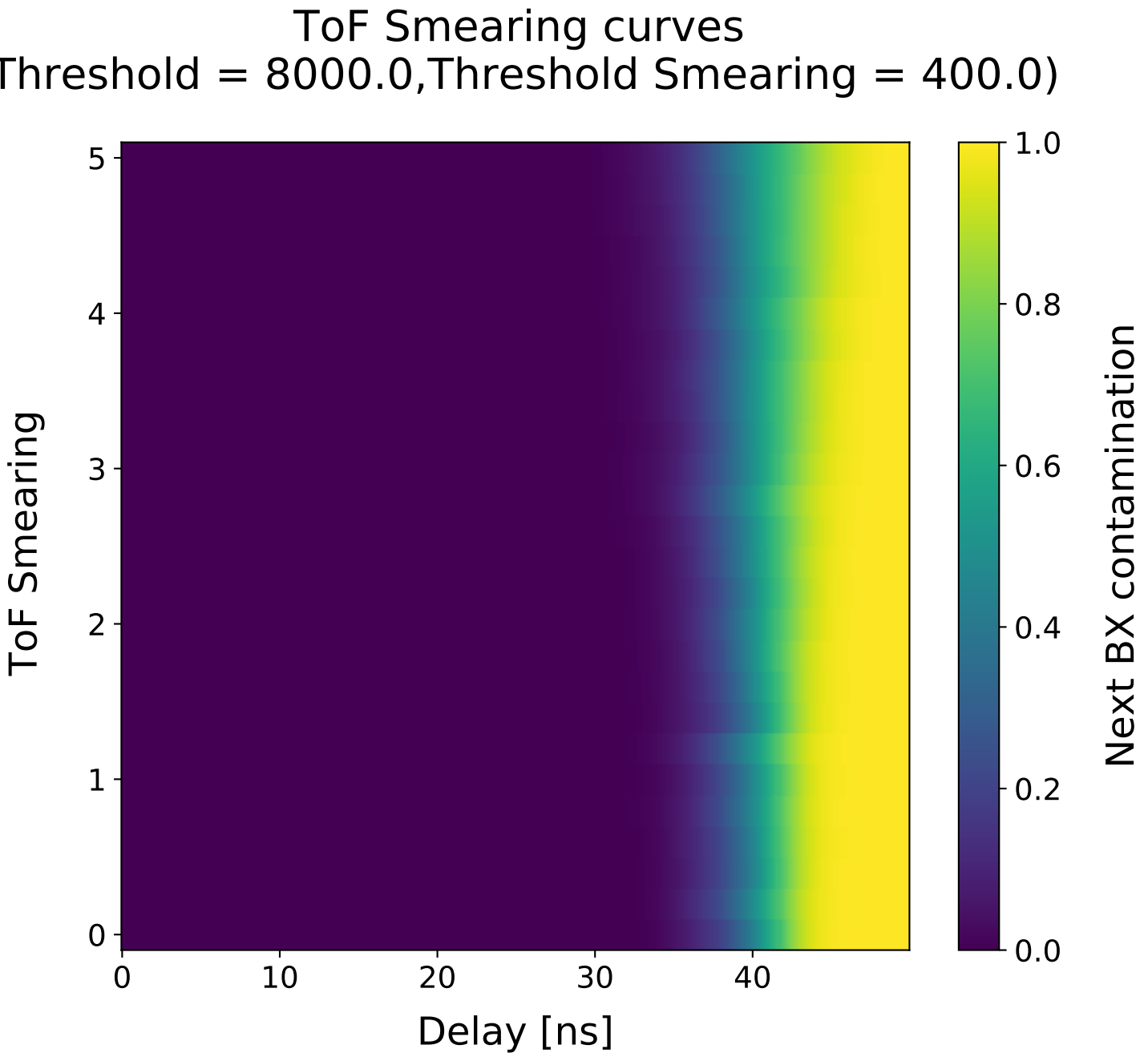

ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 200.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

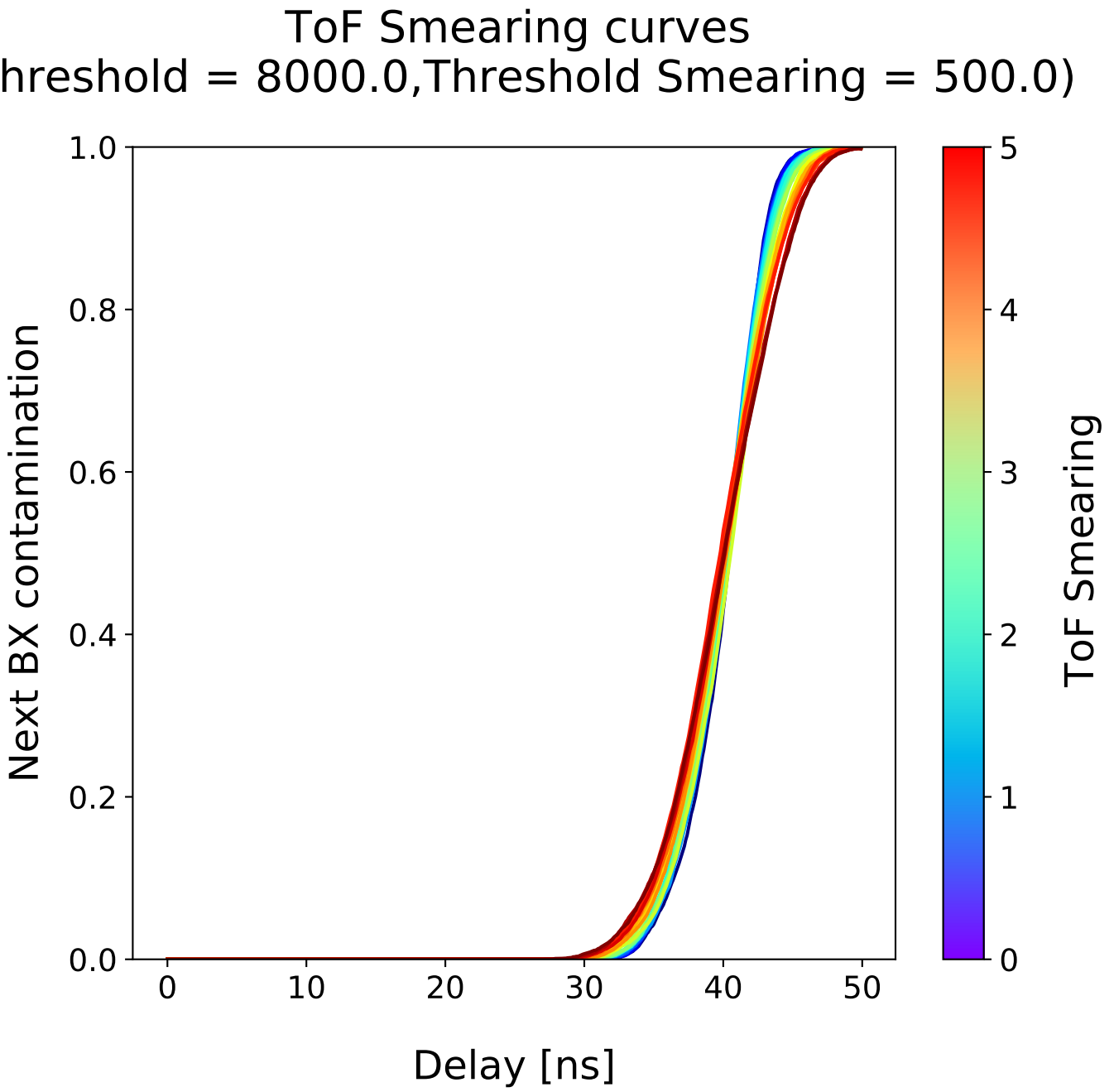

ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 200.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

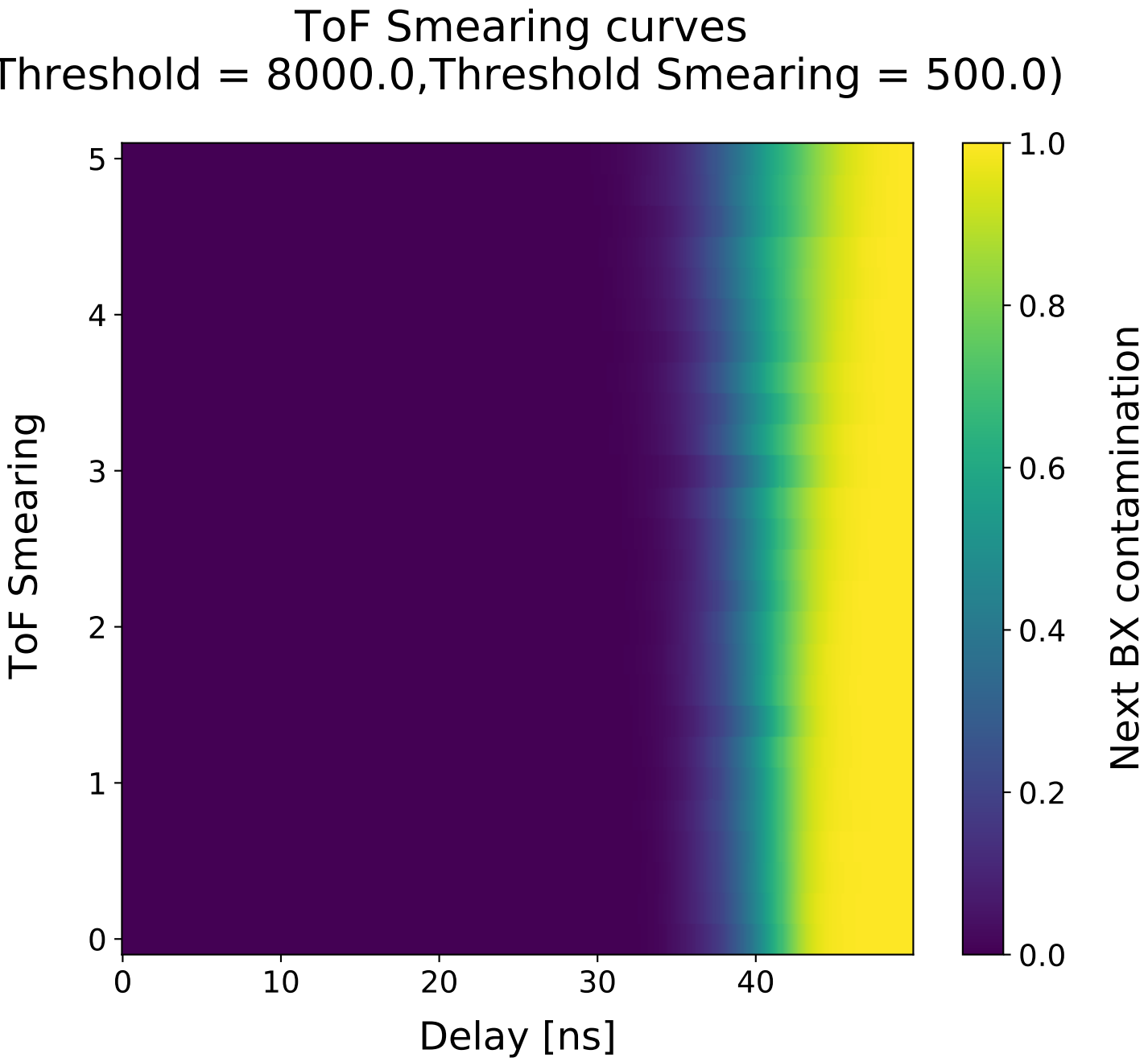

ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 300.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

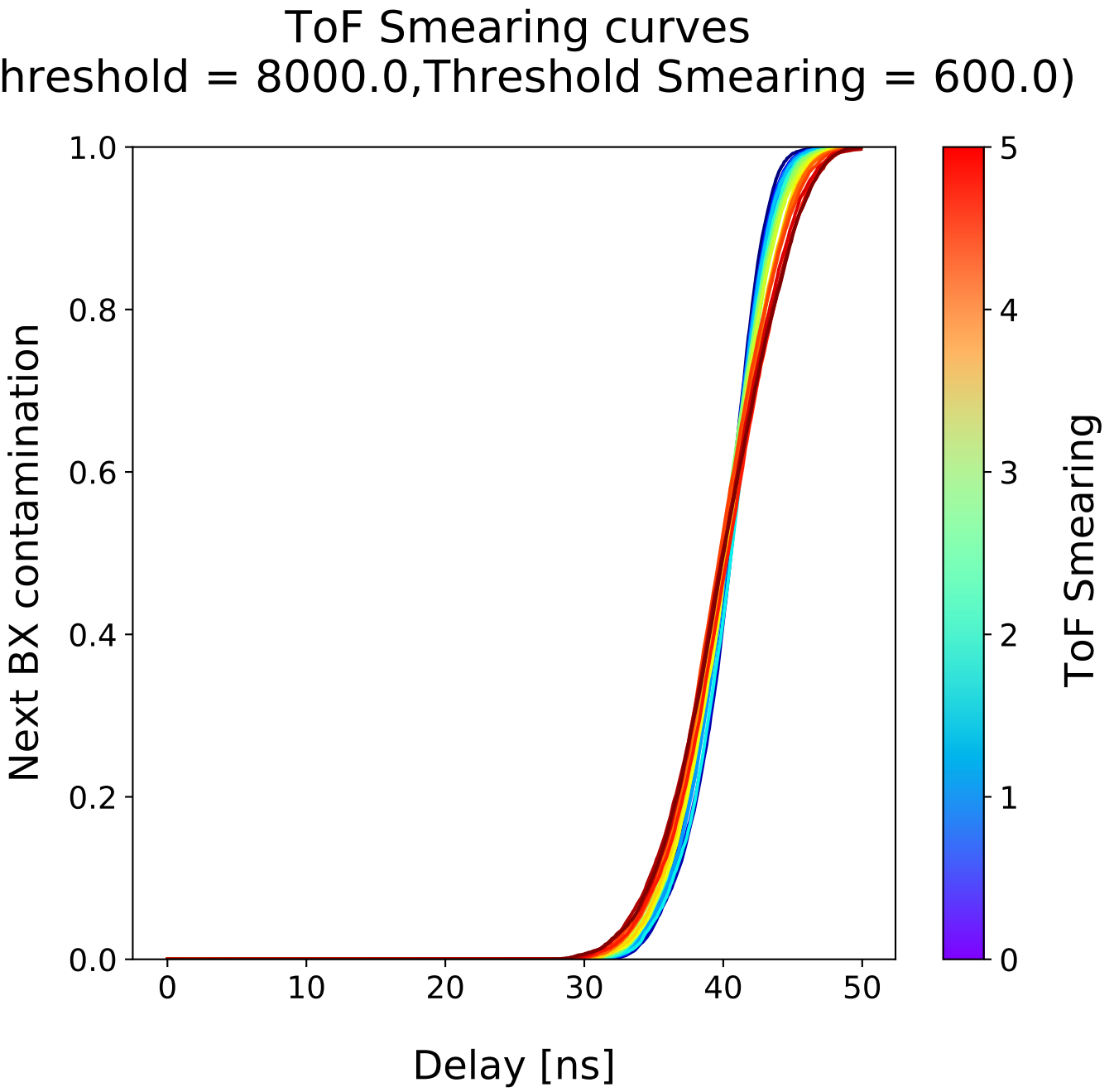

ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 300.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

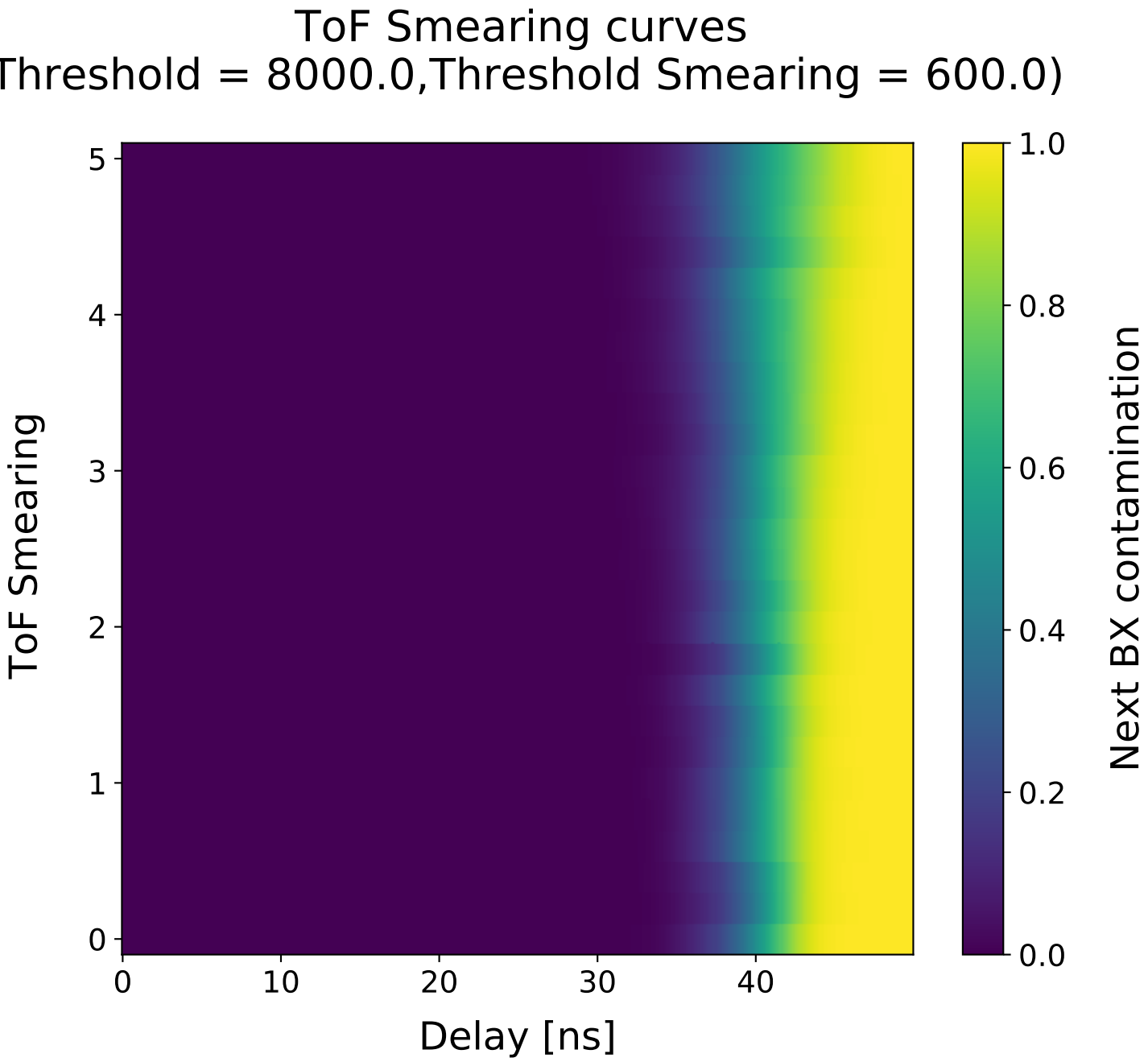

ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 400.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

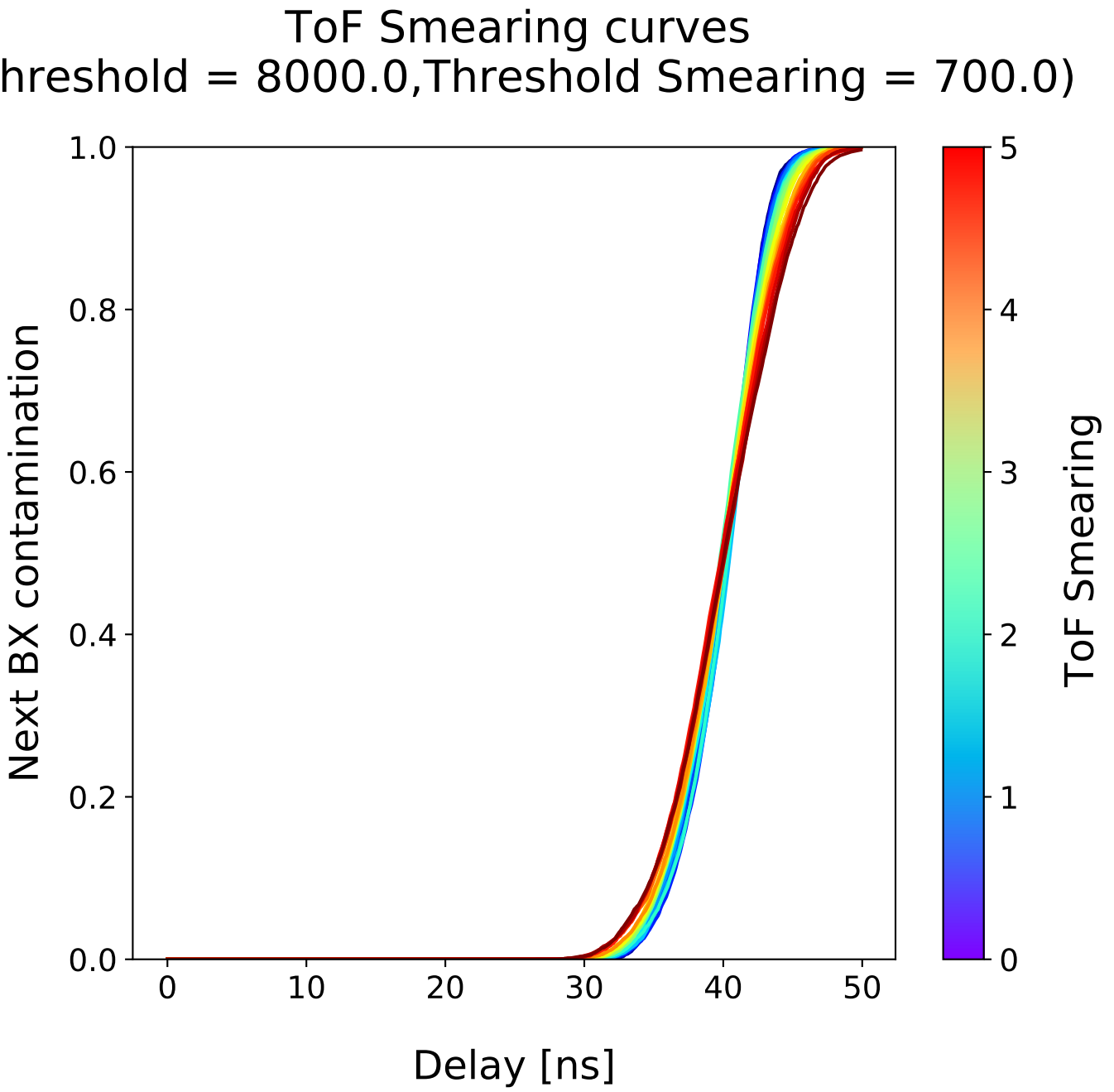

ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 400.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

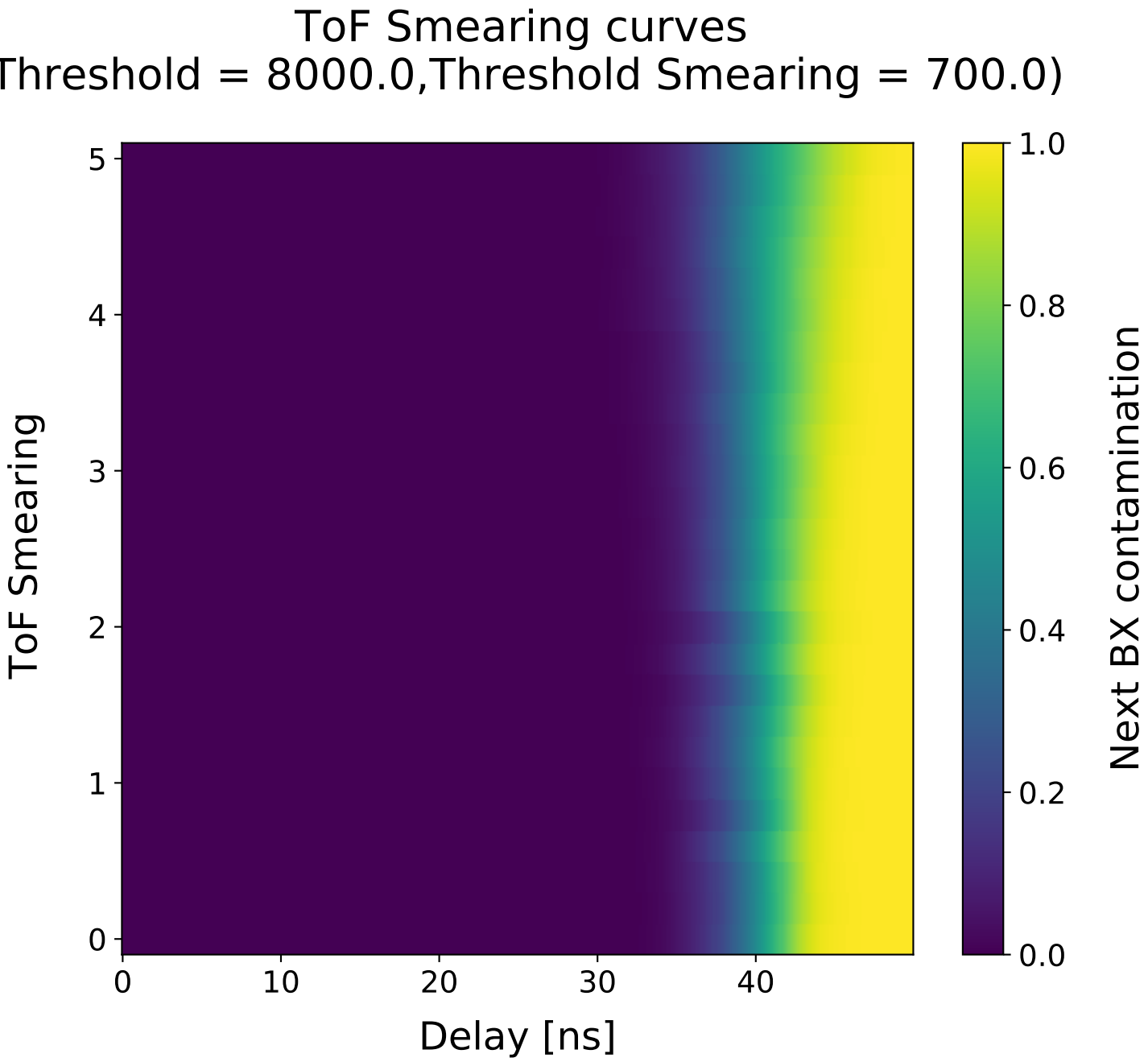

ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 500.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

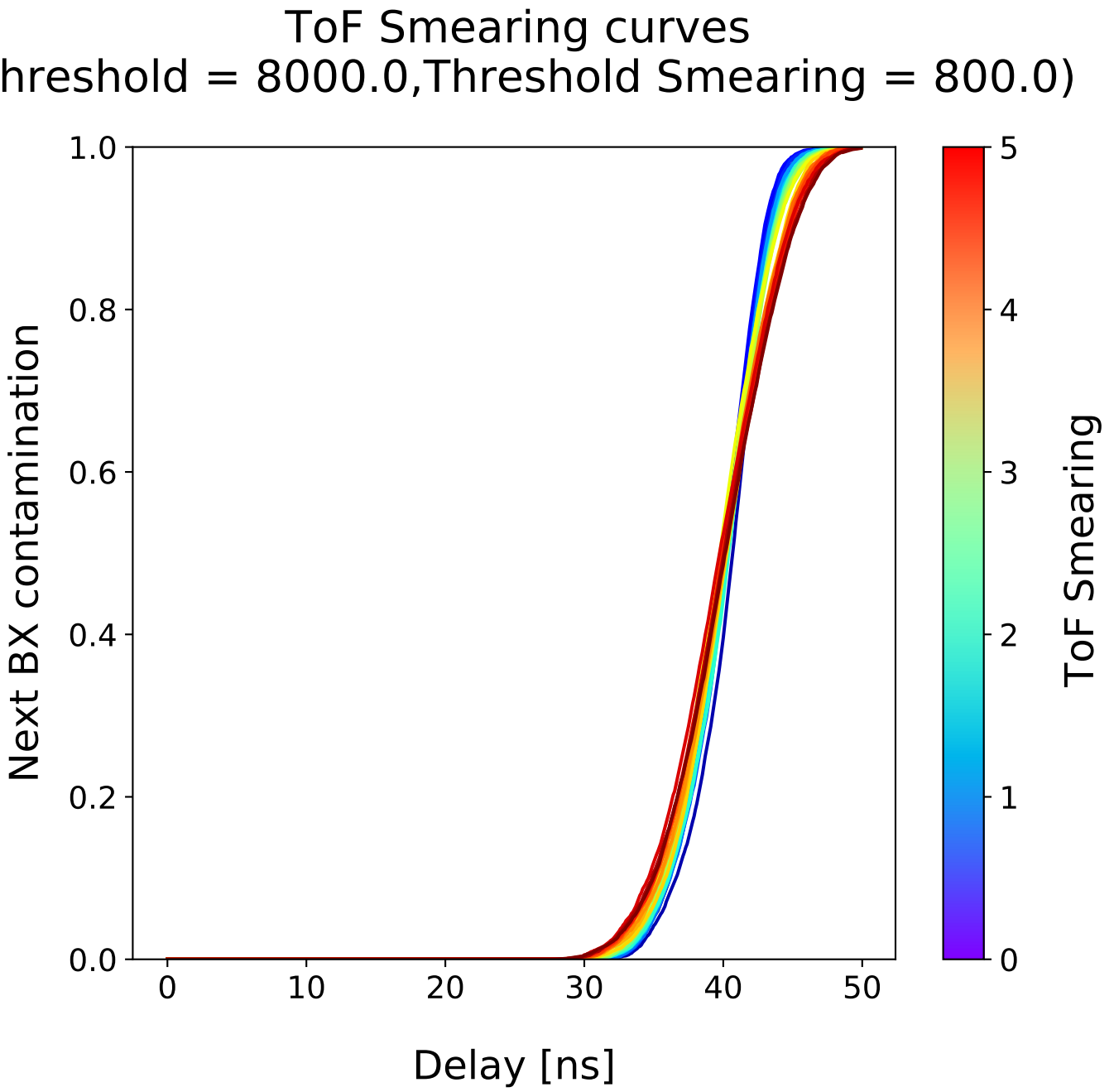

ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 500.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

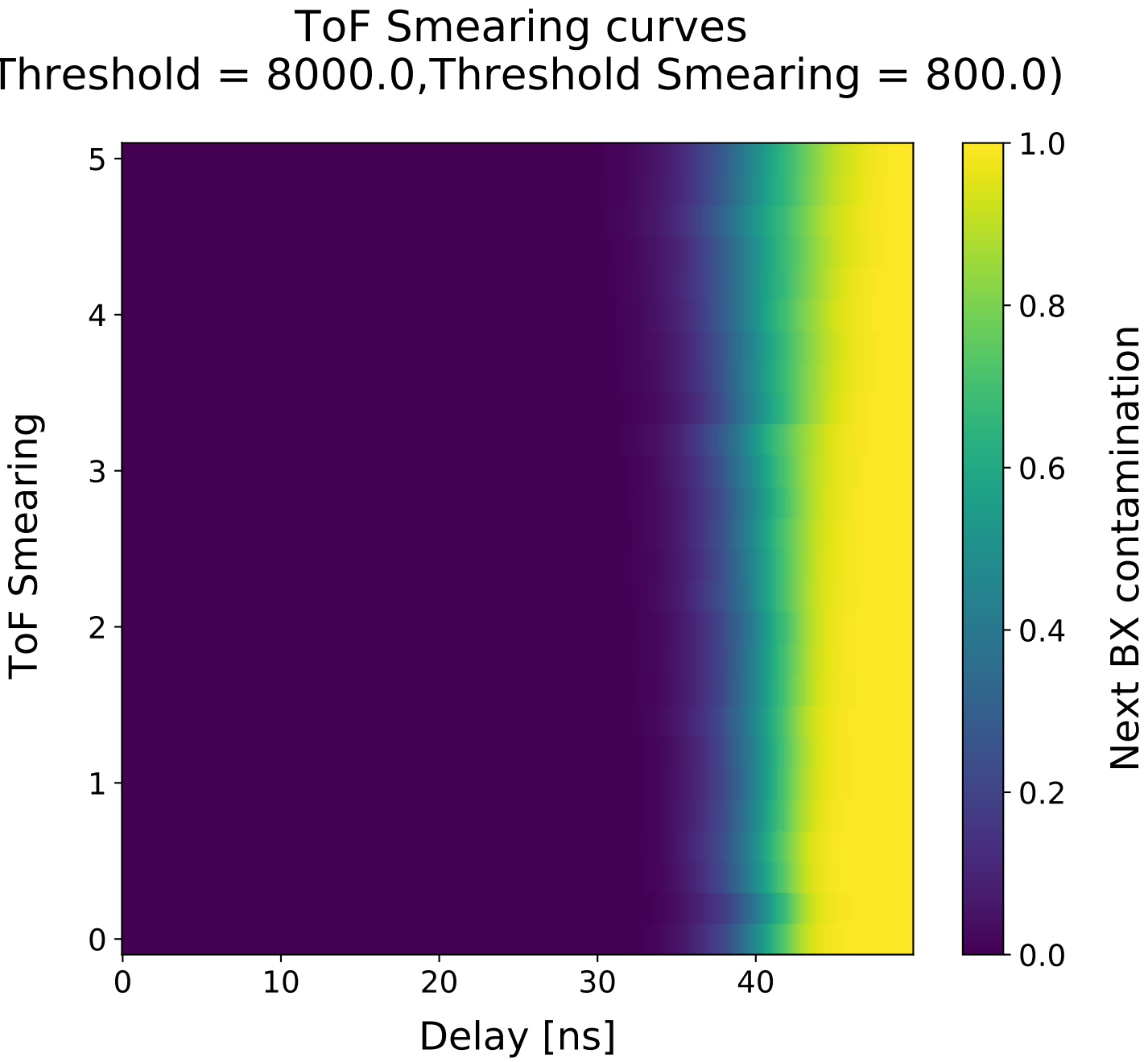

ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 600.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

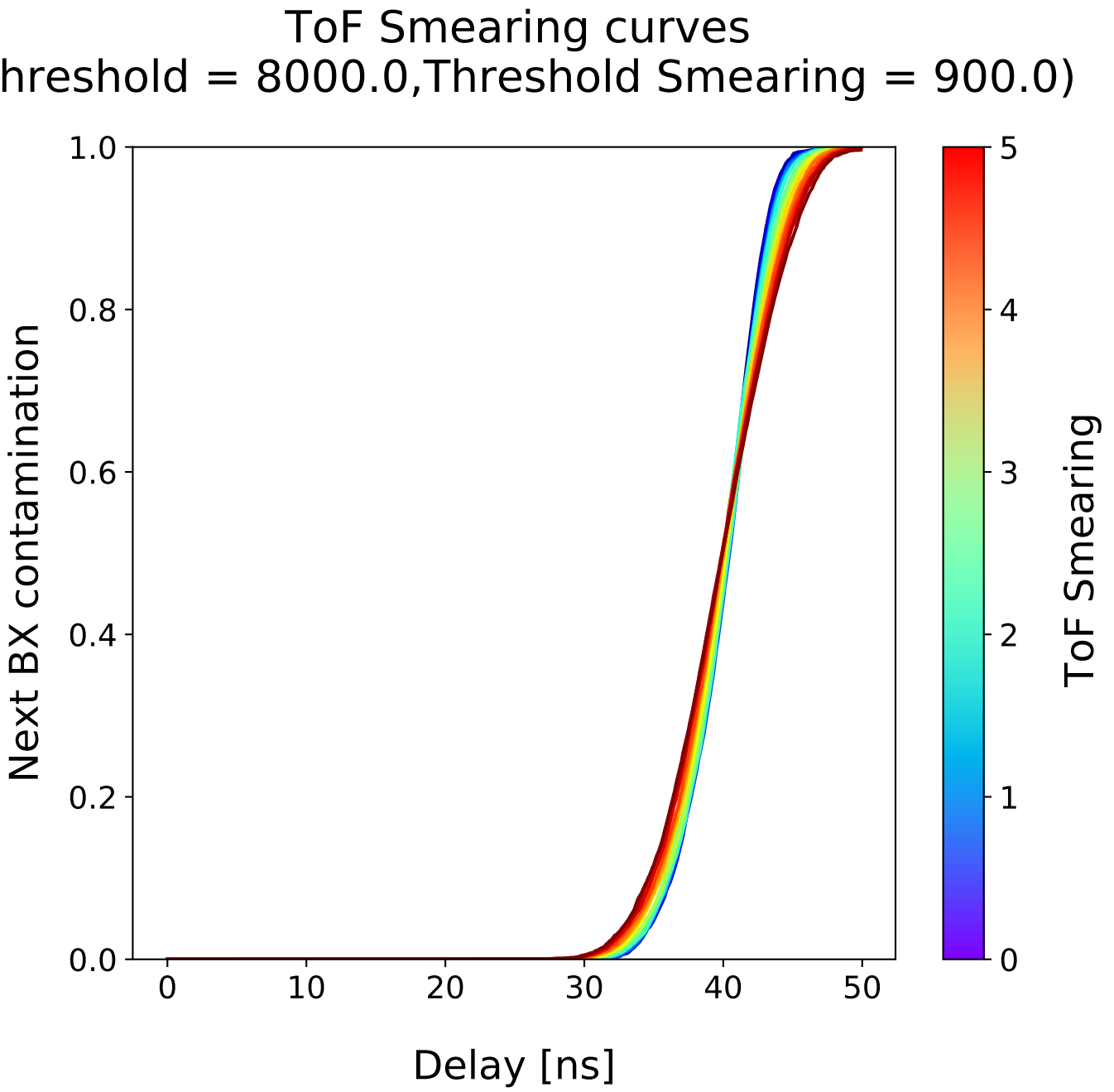

ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 600.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

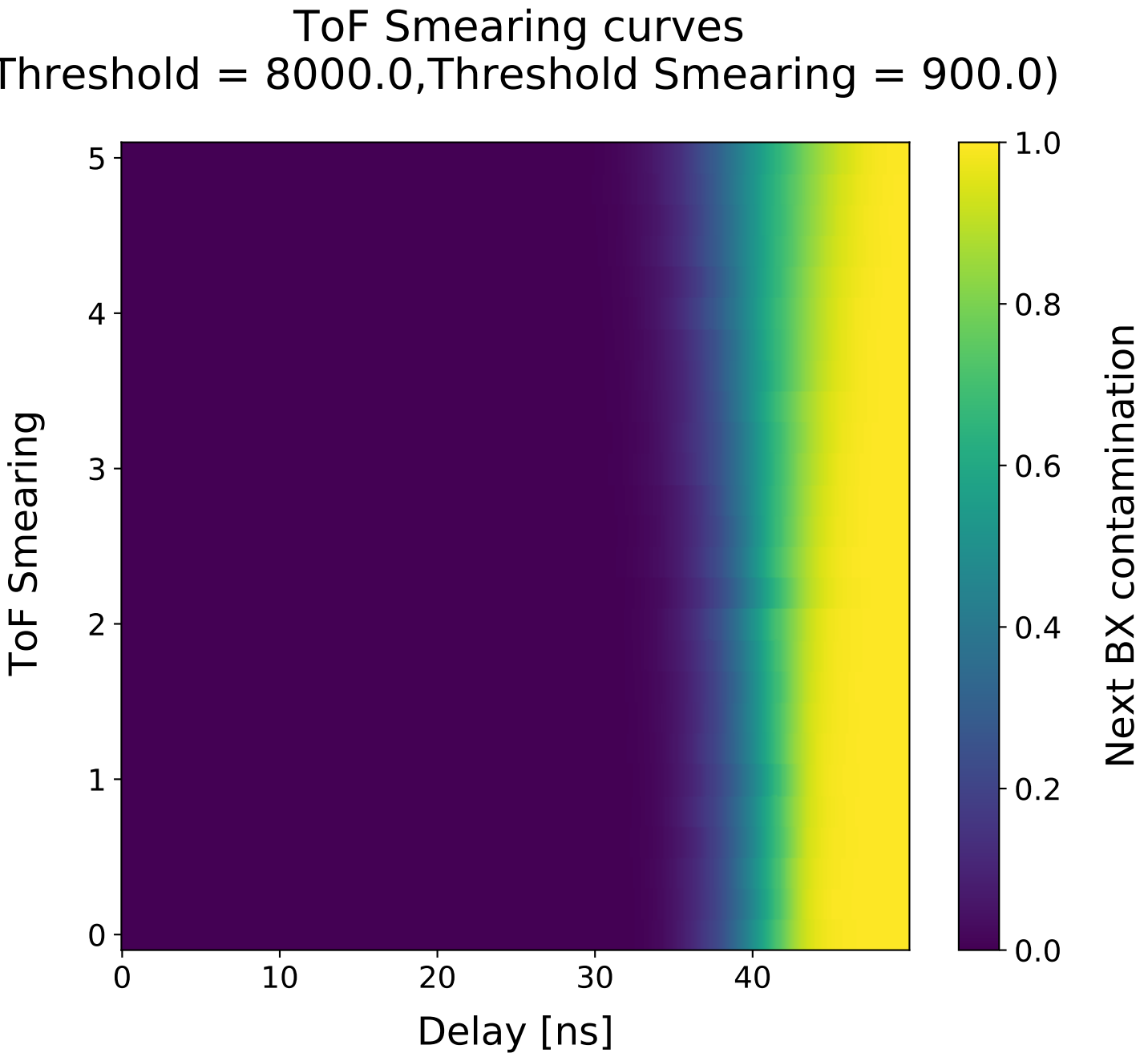

ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 700.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5

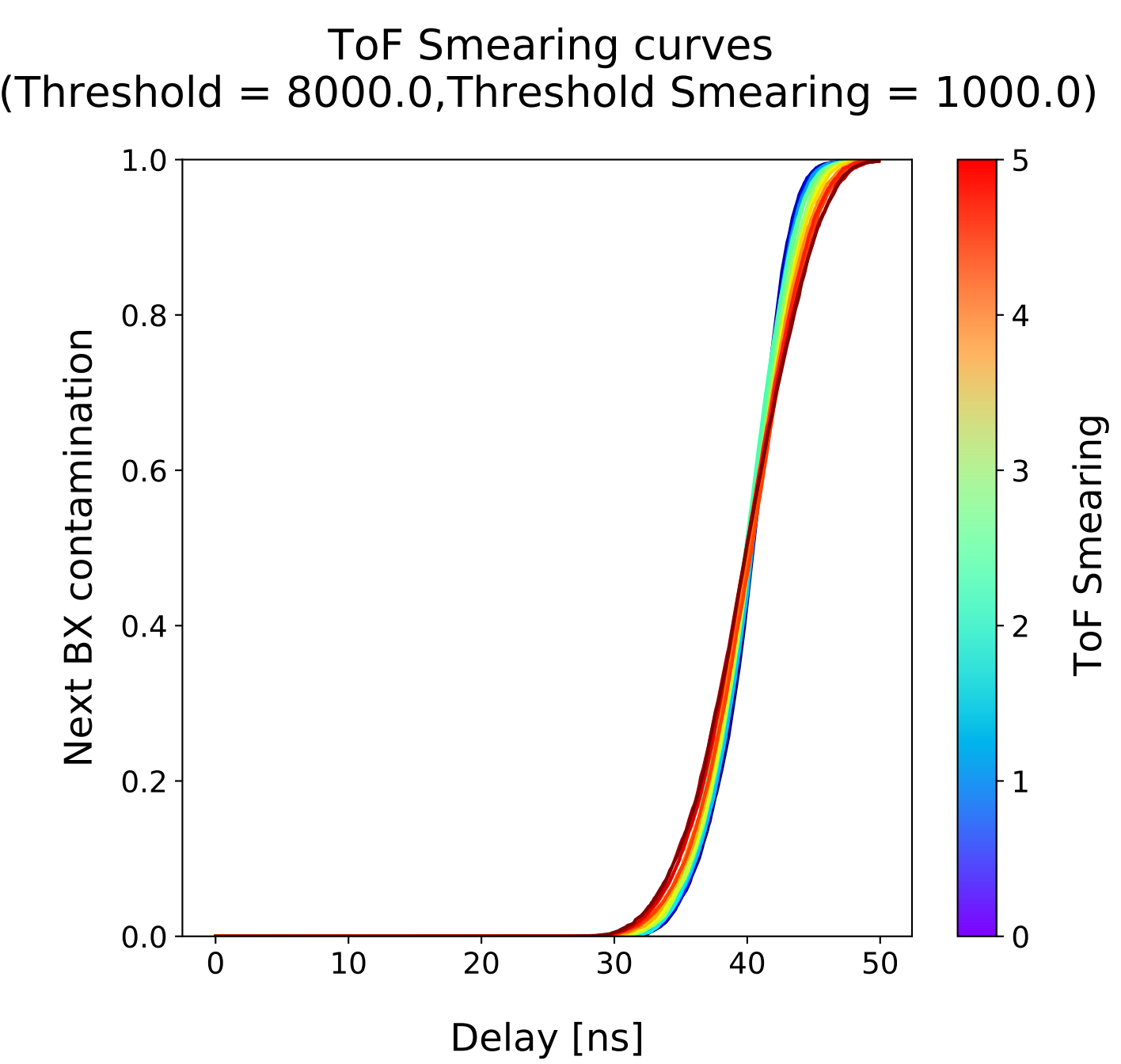

ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 700.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0

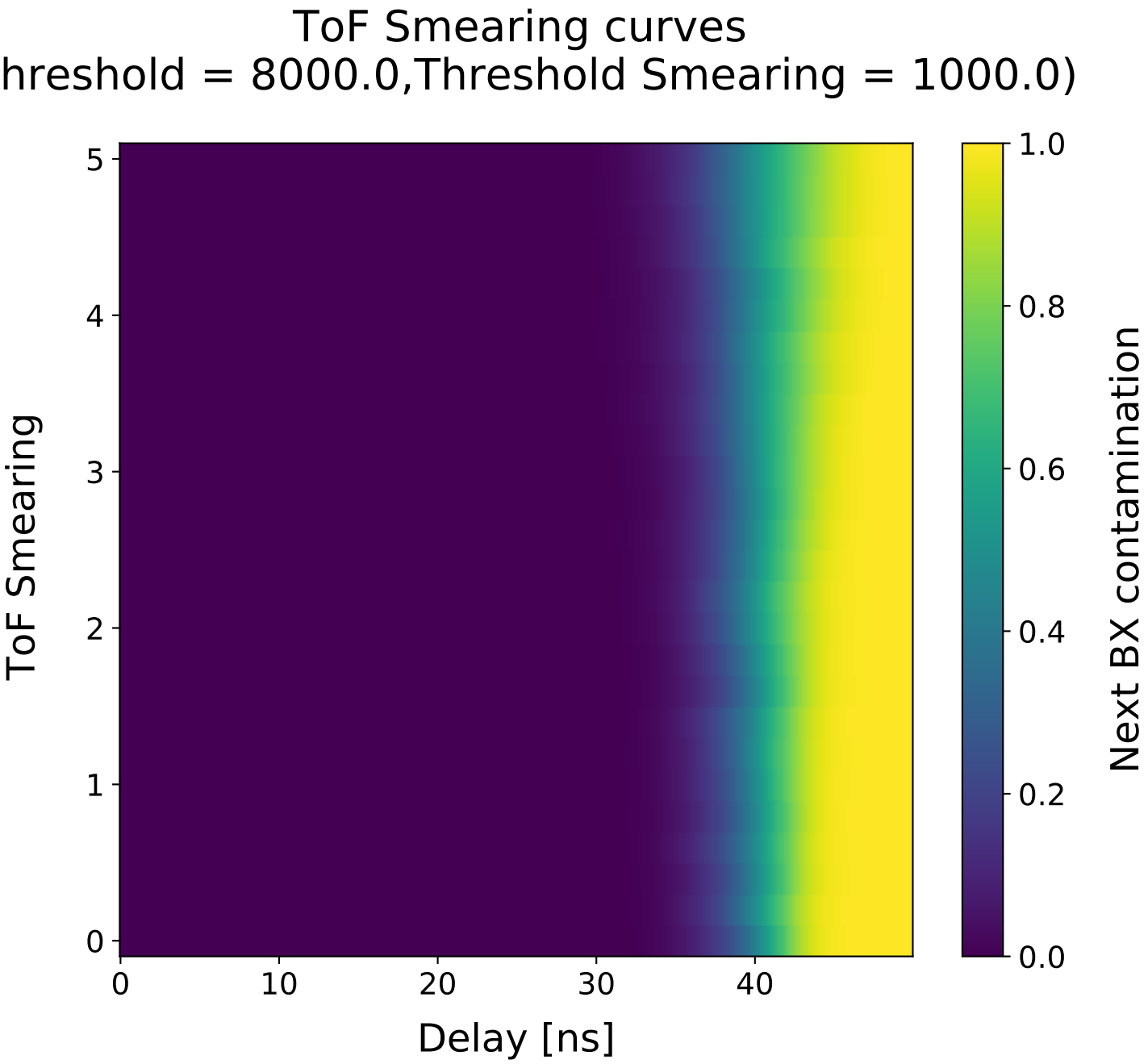

ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 800.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5


ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 800.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0


ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 900.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5


ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 900.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0


ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 1000.0)
Next BX contamination
Delay [ns]
ToF Smearing
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
50
0
1
2
3
4
5


ToF Smearing curves
(Threshold = 8000.0,Threshold Smearing = 1000.0)
ToF Smearing
Delay [ns]
Next BX contamination
0
1
2
3
4
5
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0