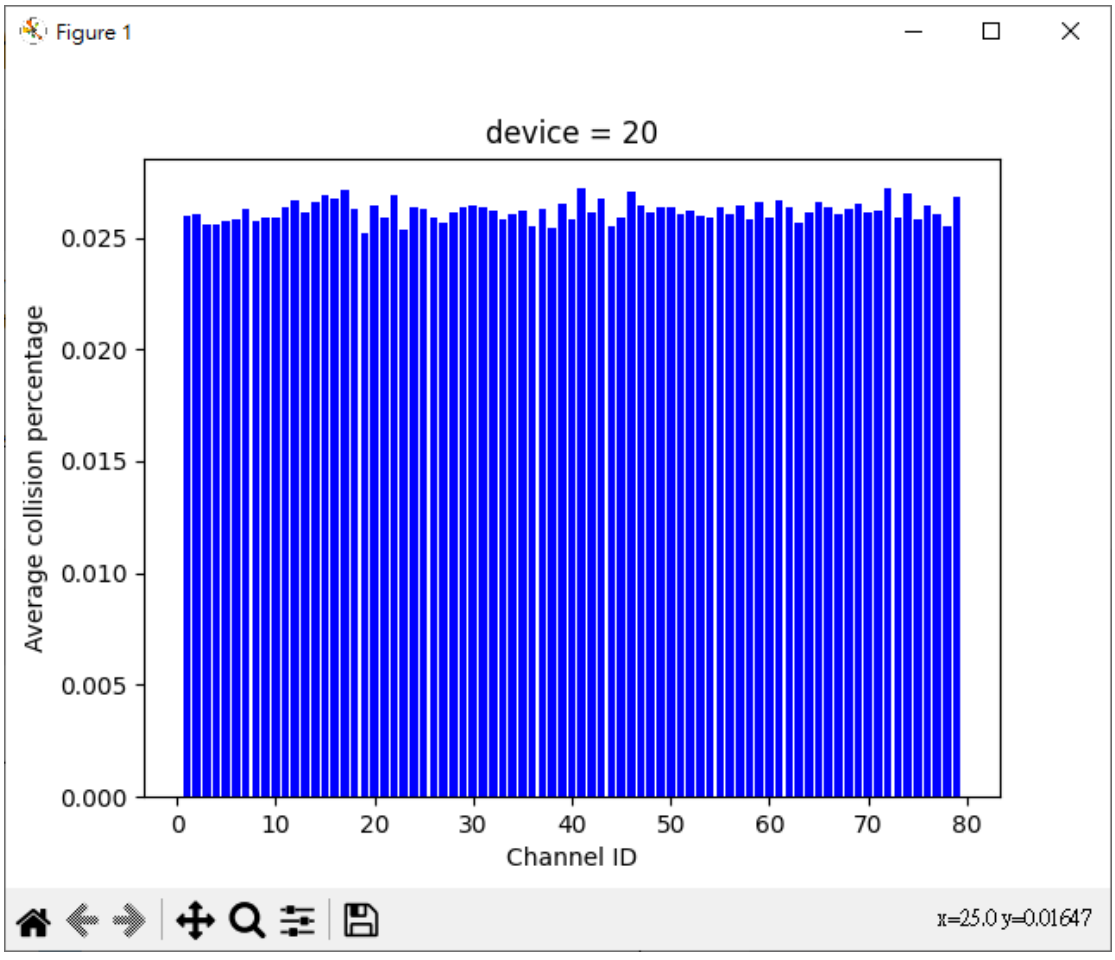
M103040072 吳浩宇 無線行動網路 final project

1.

```
1599994 : [39, 56]
[]
1599995 : [79, 75]
[]
1599996 : [40, 19]
[]
1599997 : [3, 49]
[]
1599998 : [52, 72]
[]
1599999 : [44, 58]
[]
1600000 : [37, 14]
[]
collision_probability = 0.012661875
```

2.(每秒 1600 跳，100 秒)

Device=20



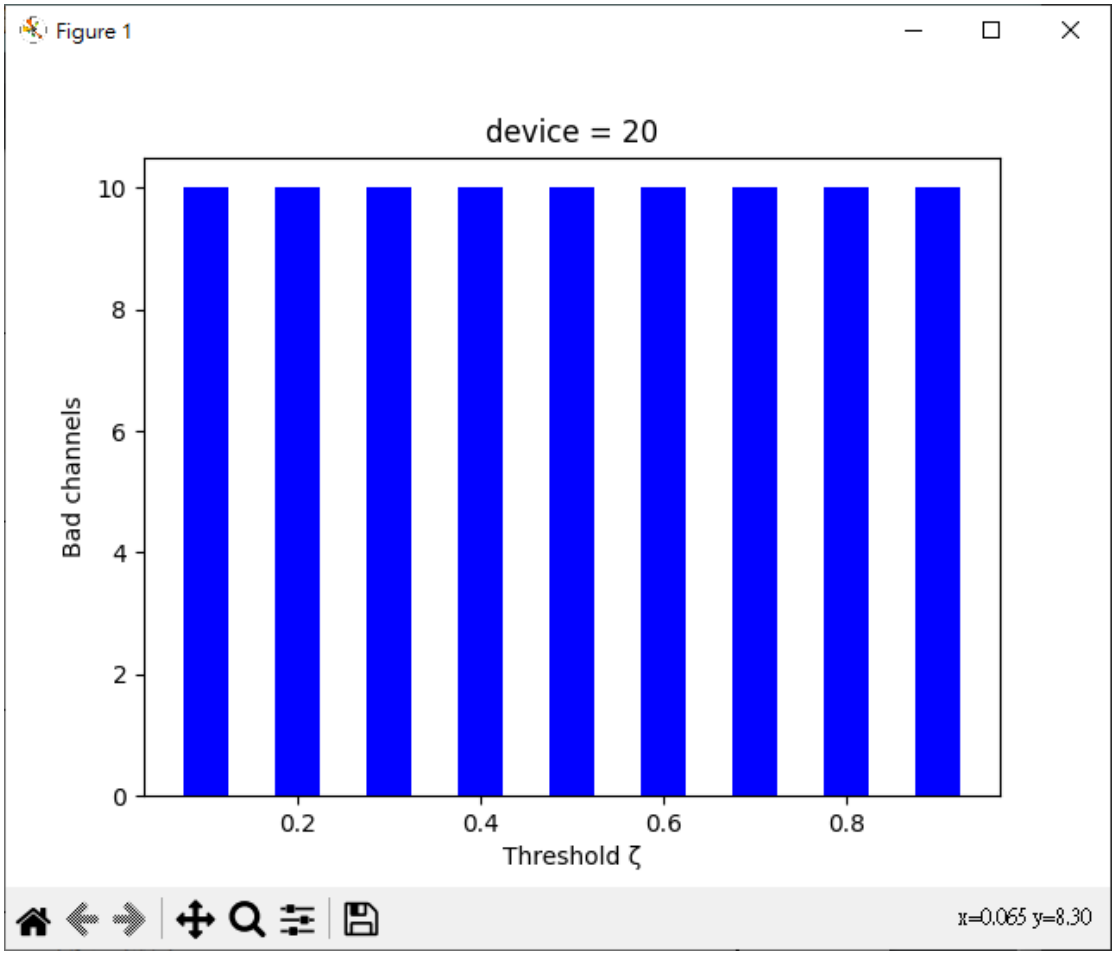


Figure 1
device = 20
Bad channels
Threshold ζ
0
2
4
6
8
10
0.2
0.4
0.6
0.8
x=0.065 y=8.30

Device=30

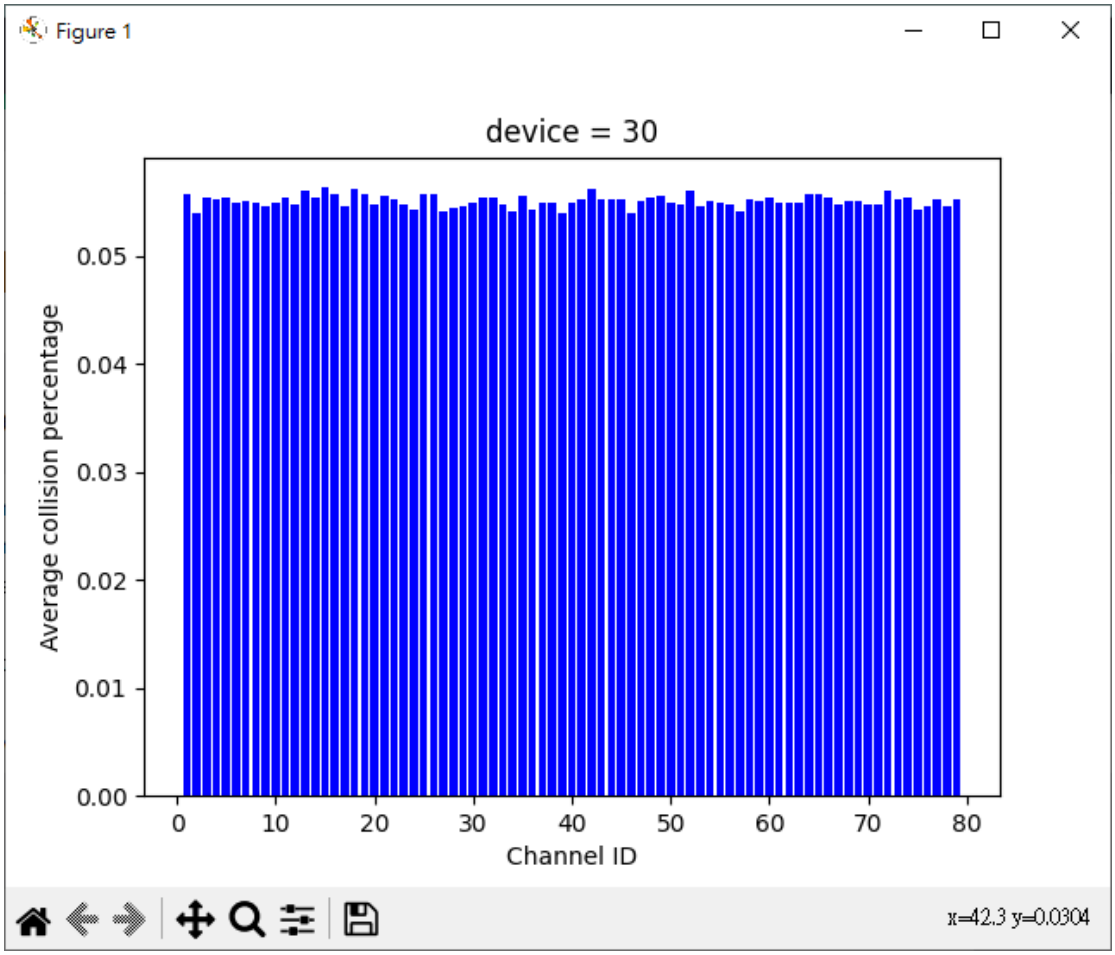


Figure 1
device = 30
Average collision percentage
0.00
0.01
0.02
0.03
0.04
0.05
0
10
20
30
40
50
60
70
80
Channel ID
x=42.3 y=0.0304

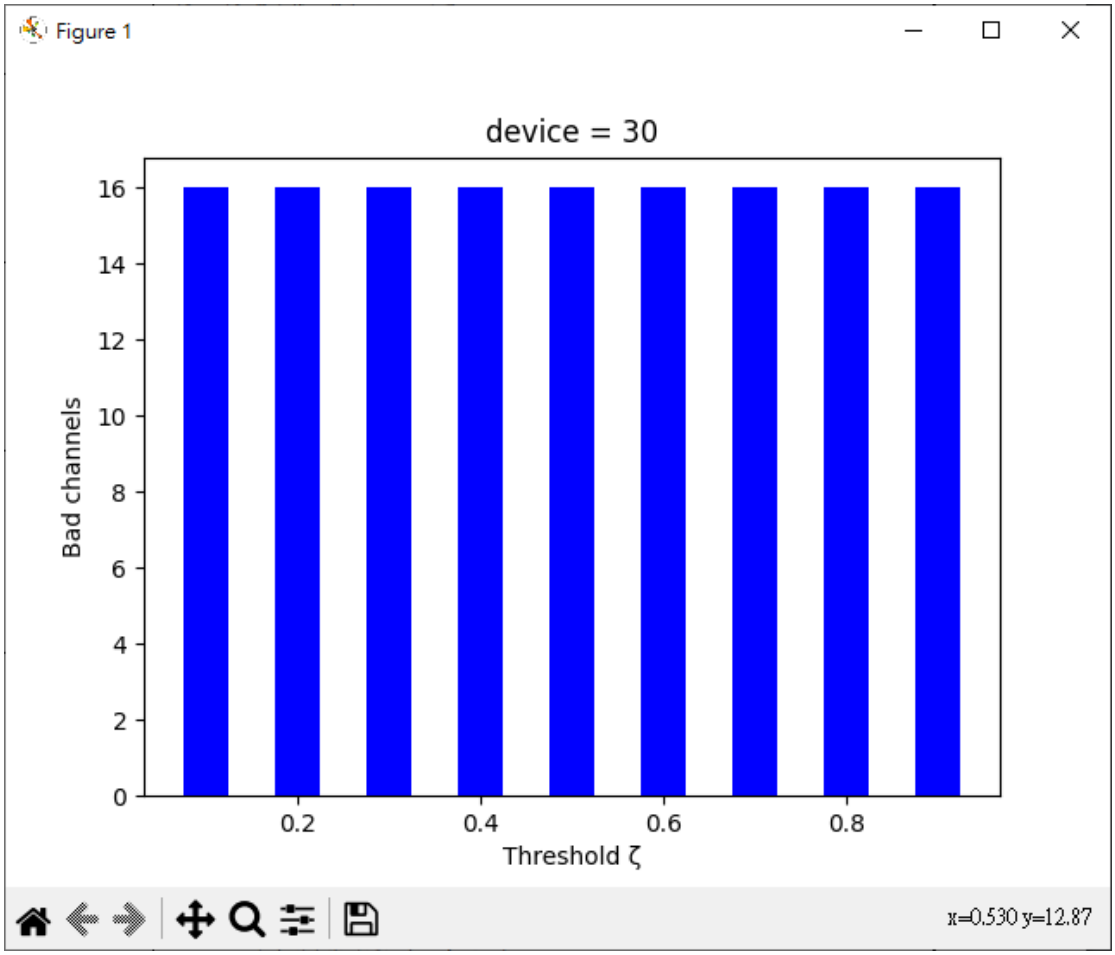


Figure 1
device = 30
Bad channels
Threshold ζ
0
2
4
6
8
10
12
14
16
0.2
0.4
0.6
0.8
x=0.530 y=12.87

Device=40

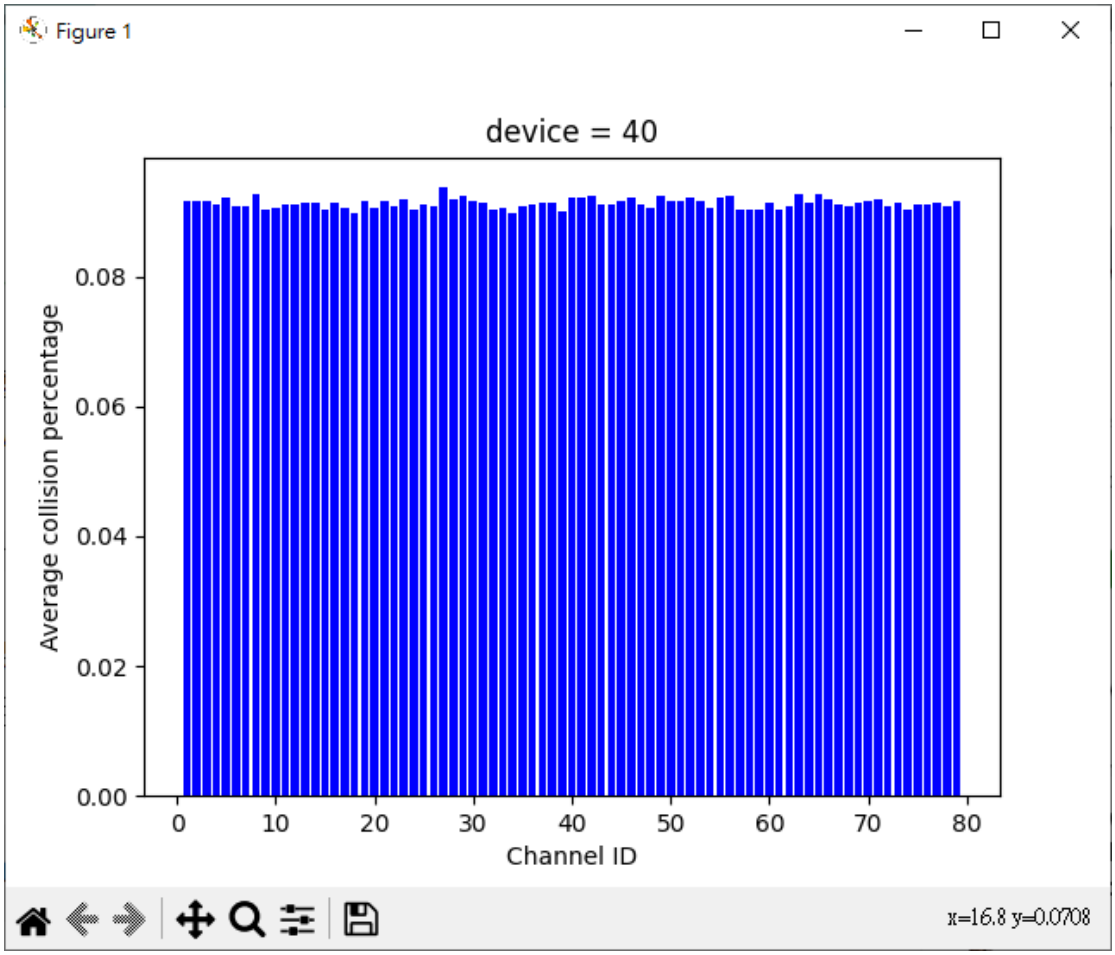


Figure 1
device = 40
Average collision percentage
0.00
0.02
0.04
0.06
0.08
0
10
20
30
40
50
60
70
80
Channel ID
x=16.8 y=0.0708

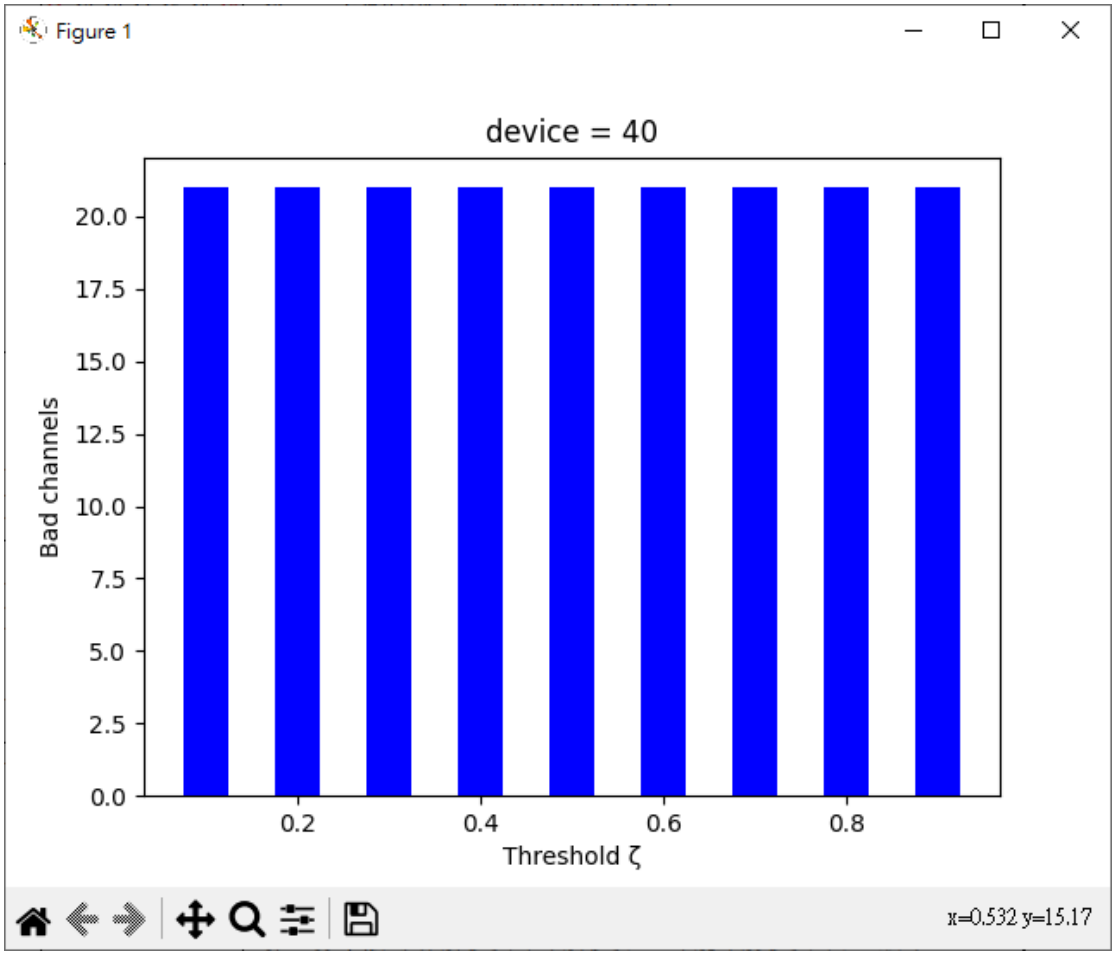


Figure 1
device = 40
Bad channels
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
0.2
0.4
0.6
0.8
Threshold ζ
x=0.532 y=15.17

Device=50

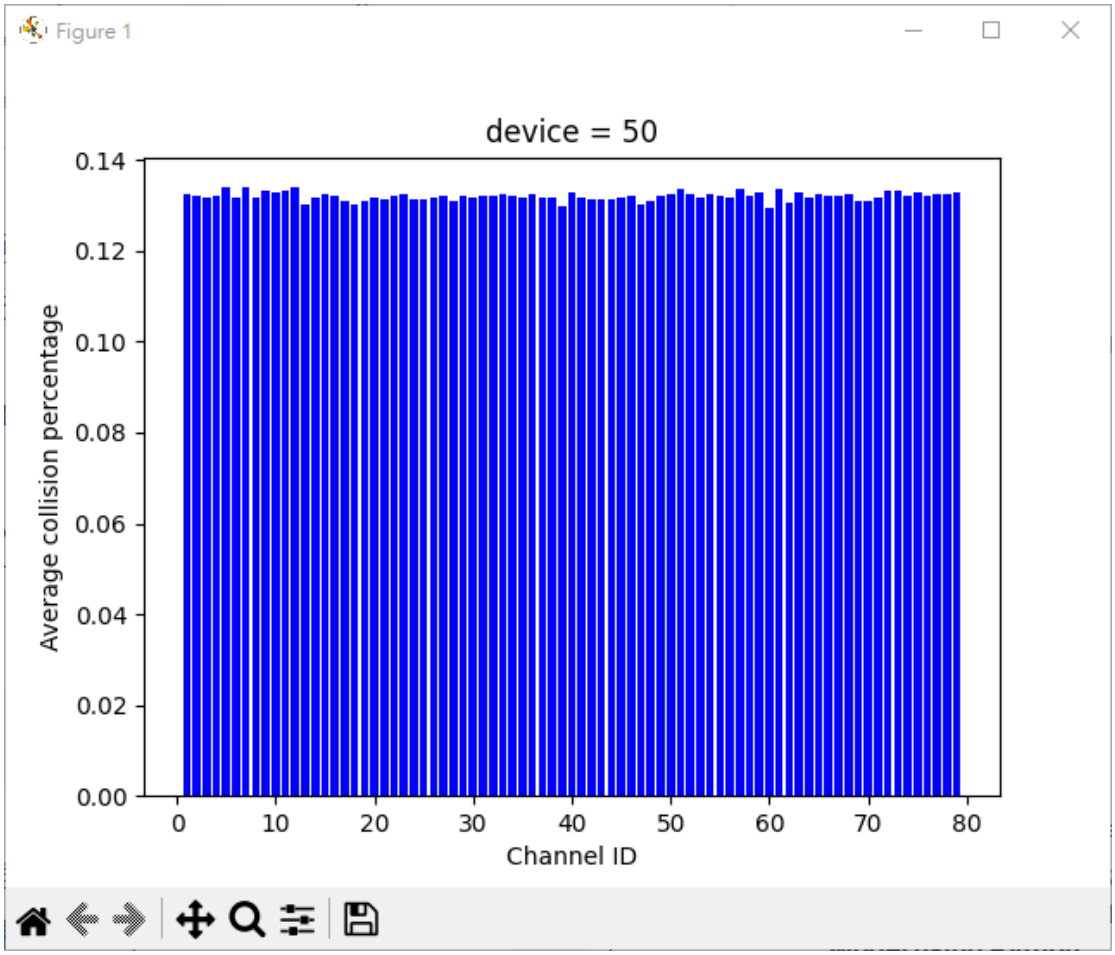


Figure 1
device = 50
Average collision percentage
Channel ID
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0
10
20
30
40
50
60
70
80

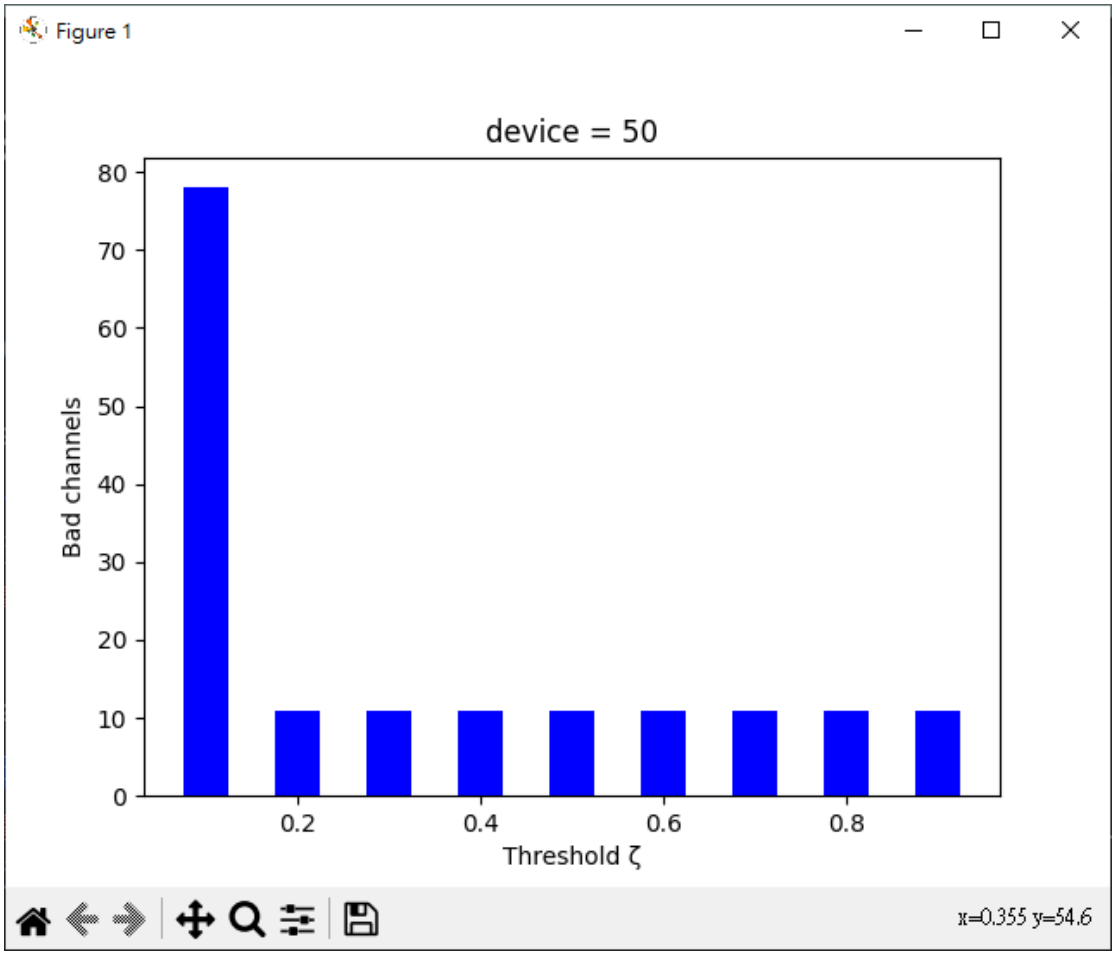


Figure 1
device = 50
Bad channels
Threshold ζ
0
10
20
30
40
50
60
70
80
0.2
0.4
0.6
0.8
x=0.355 y=54.6

Device=60

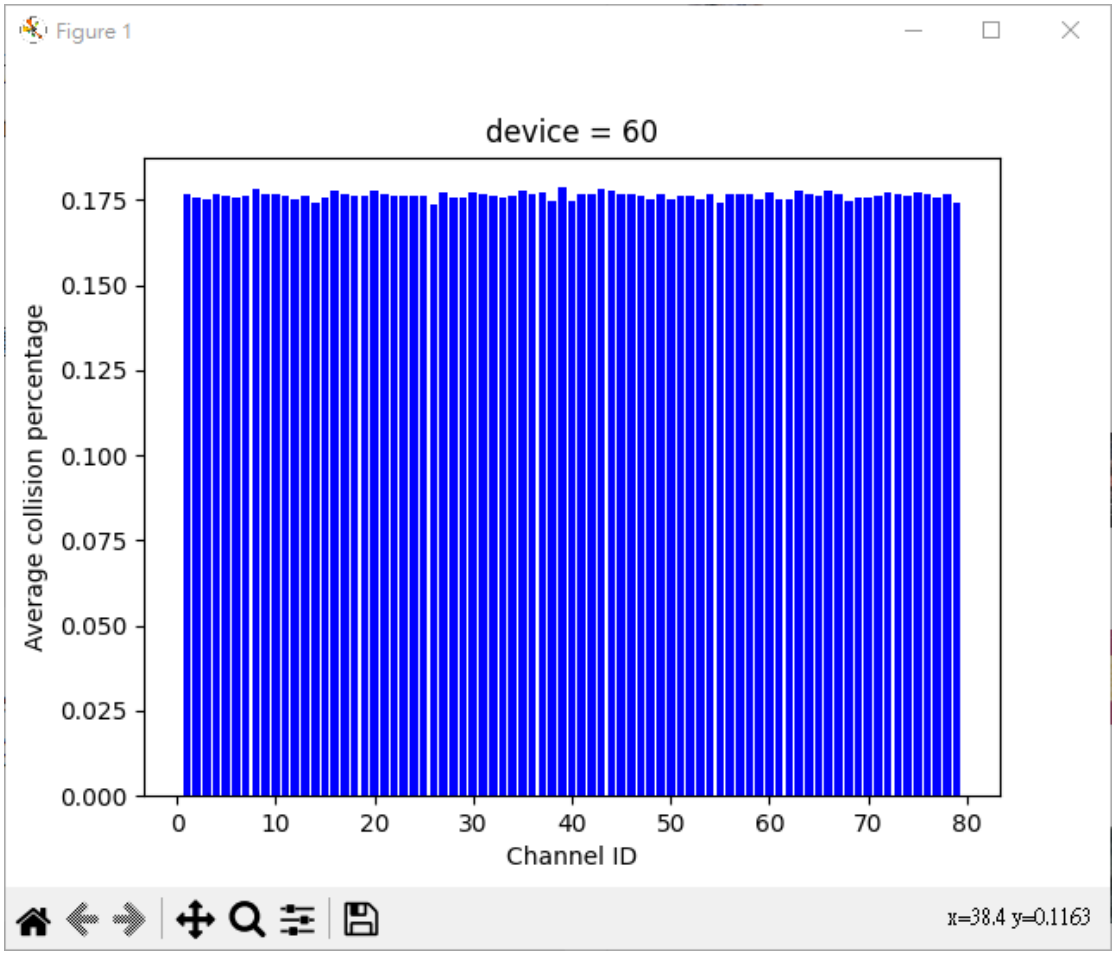


Figure 1
device = 60
Average collision percentage
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
0
10
20
30
40
50
60
70
80
Channel ID
x=38.4 y=0.1163

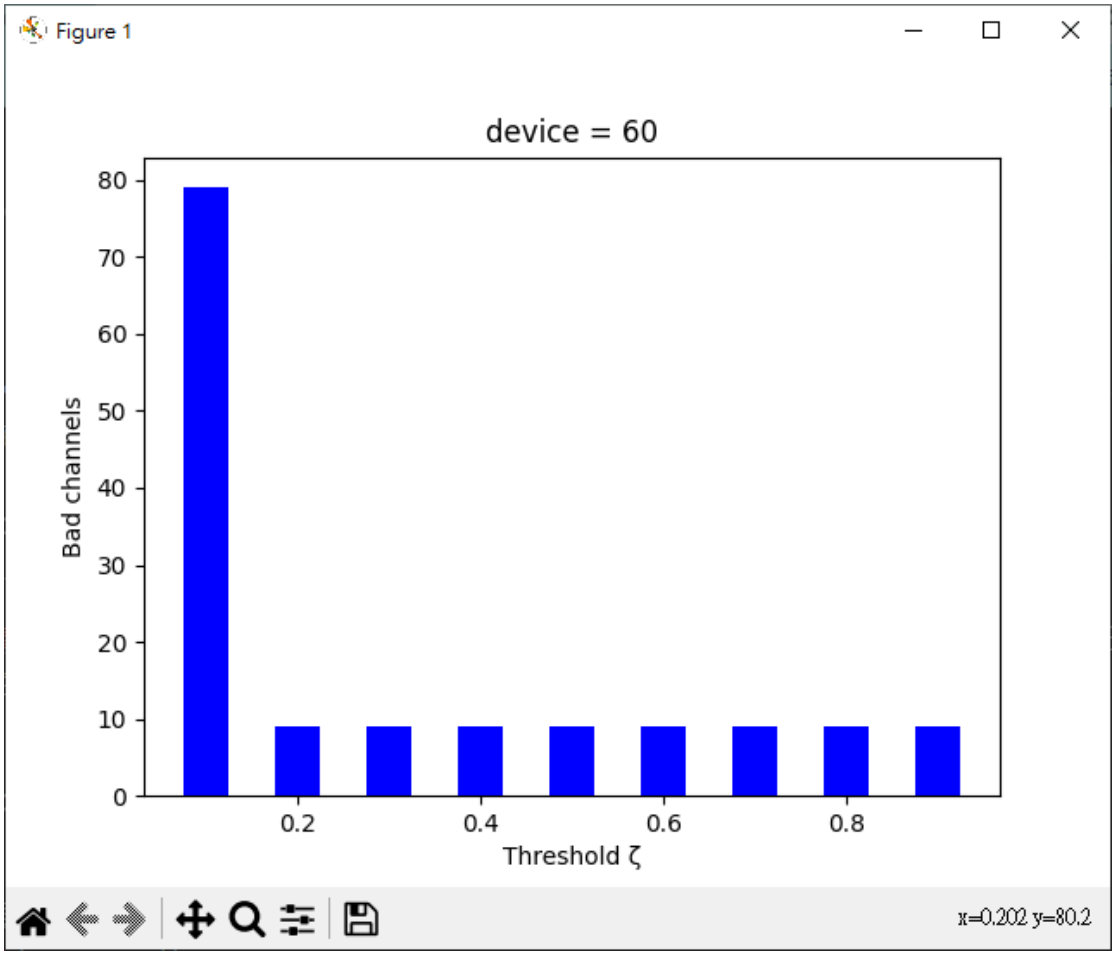


Figure 1
device = 60
Bad channels
Threshold ζ
0
10
20
30
40
50
60
70
80
0.2
0.4
0.6
0.8
x=0.202 y=80.2

Device=70

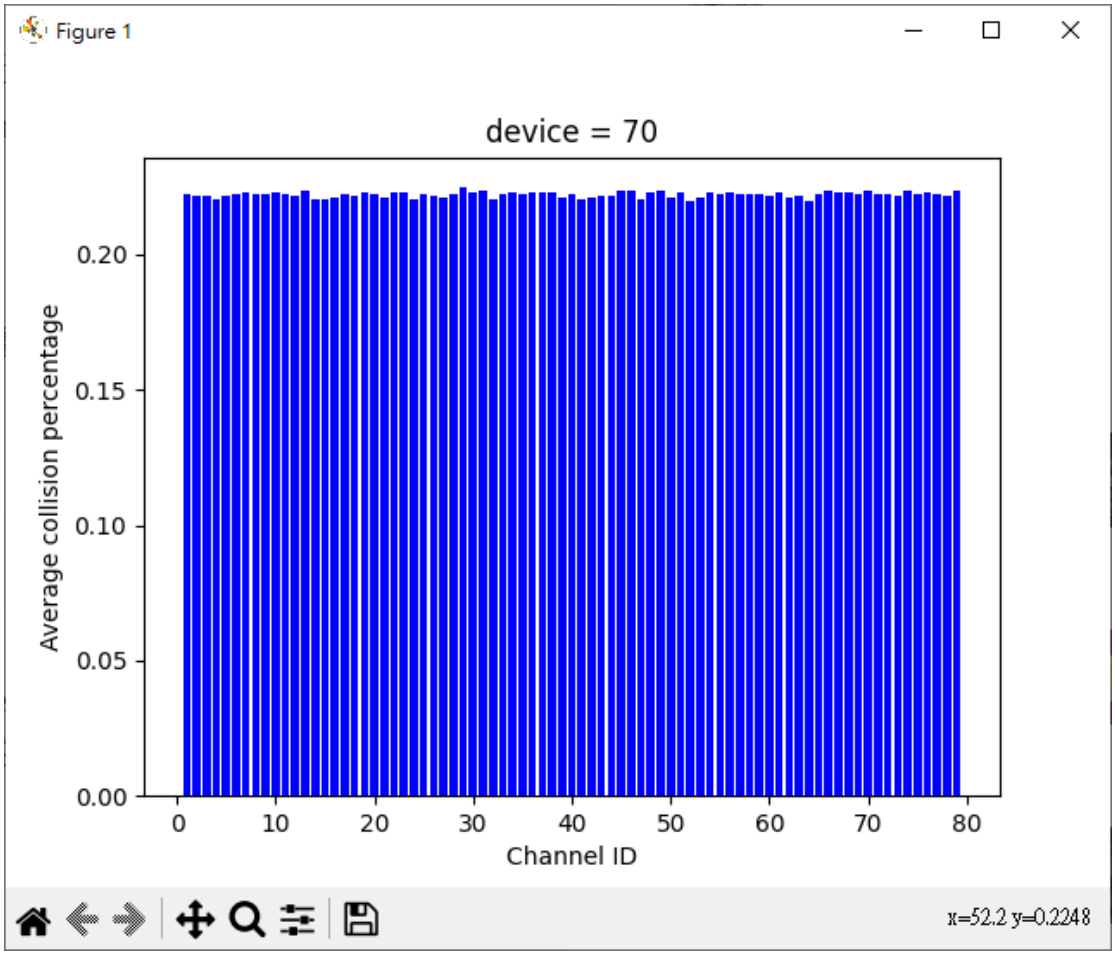


Figure 1
device = 70
Average collision percentage
0.00
0.05
0.10
0.15
0.20
0
10
20
30
40
50
60
70
80
Channel ID
x=52.2 y=0.2248

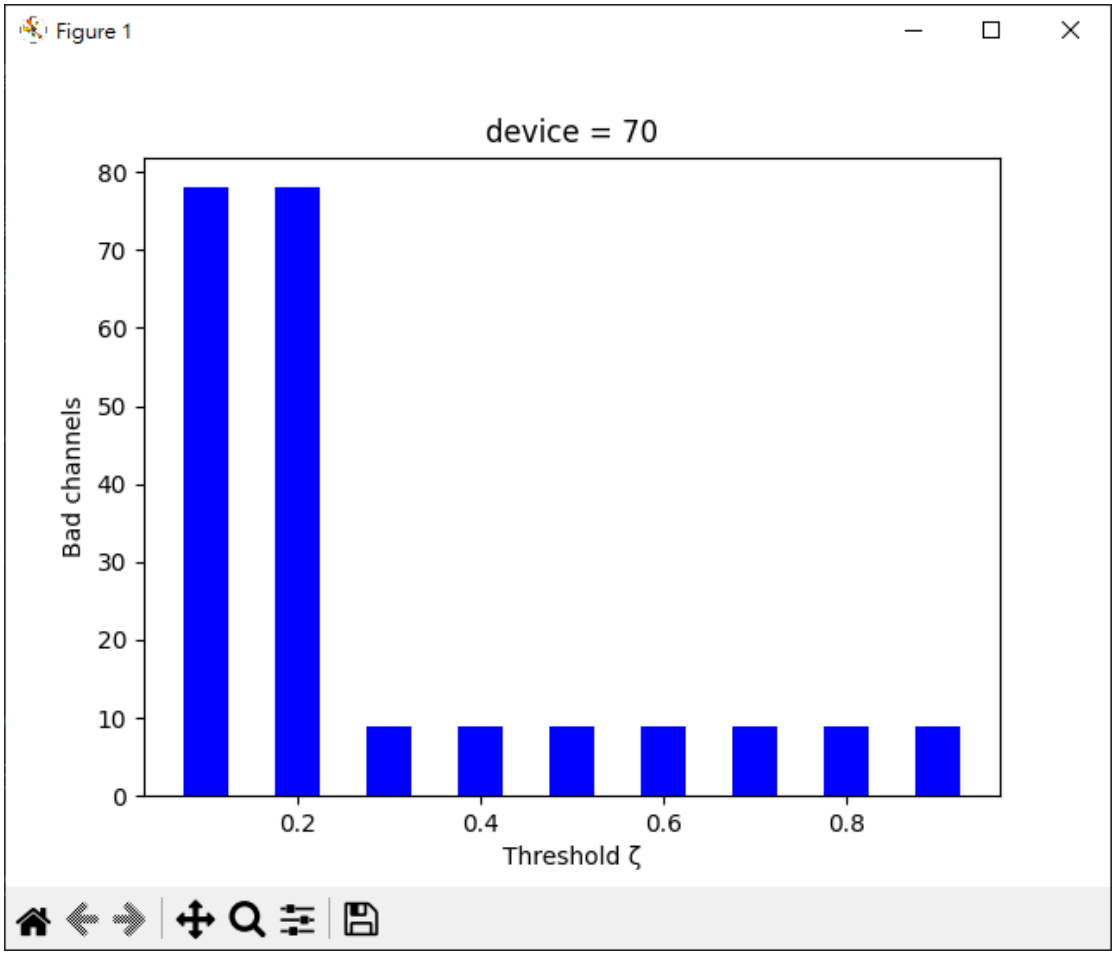
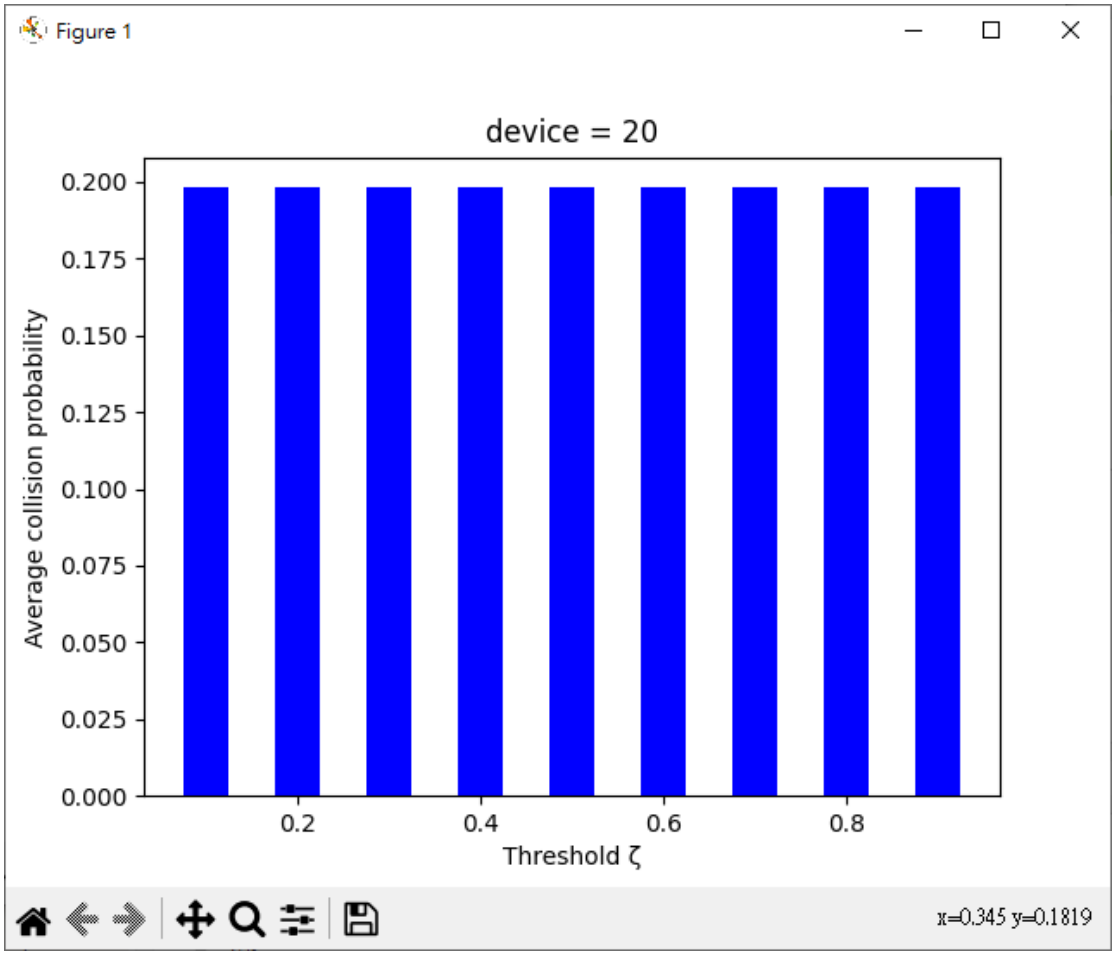


Figure 1
device = 70
Bad channels
0
10
20
30
40
50
60
70
80
0.2
0.4
0.6
0.8
Threshold ζ

3.

Device=20



Device=30

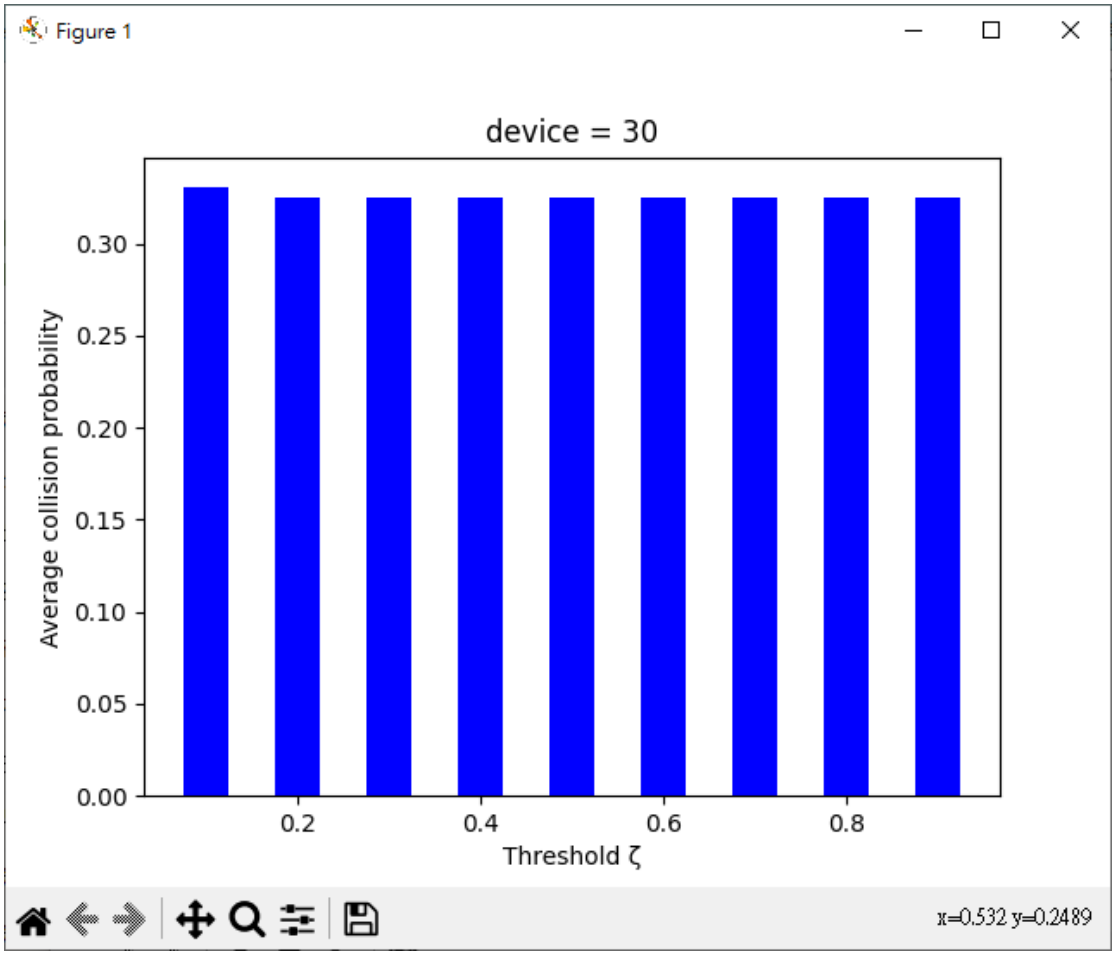


Figure 1
device = 30
Average collision probability
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.2
0.4
0.6
0.8
Threshold ζ
x=0.532 y=0.2489

Device=40

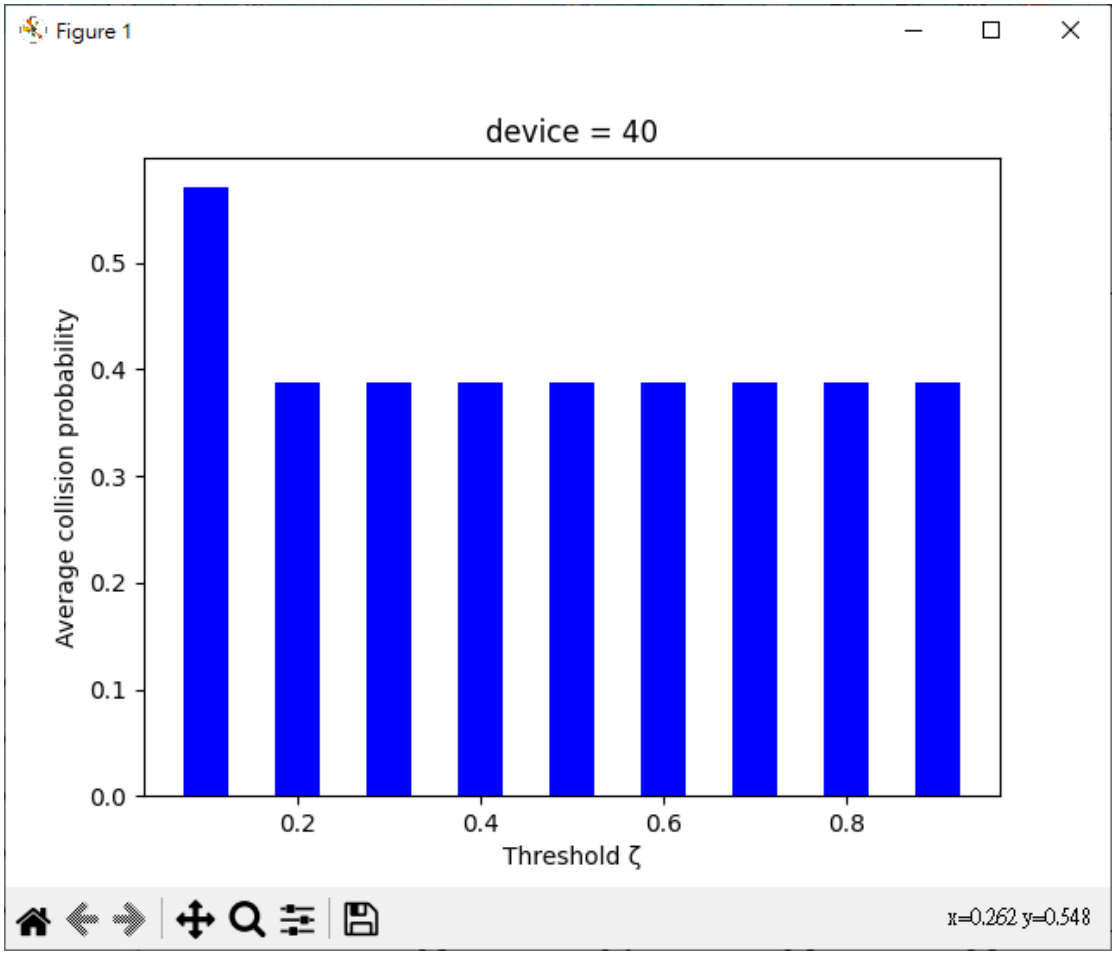


Figure 1
device = 40
Average collision probability
0.0
0.1
0.2
0.3
0.4
0.5
0.2
0.4
0.6
0.8
Threshold ζ
x=0.262 y=0.548

Device=50

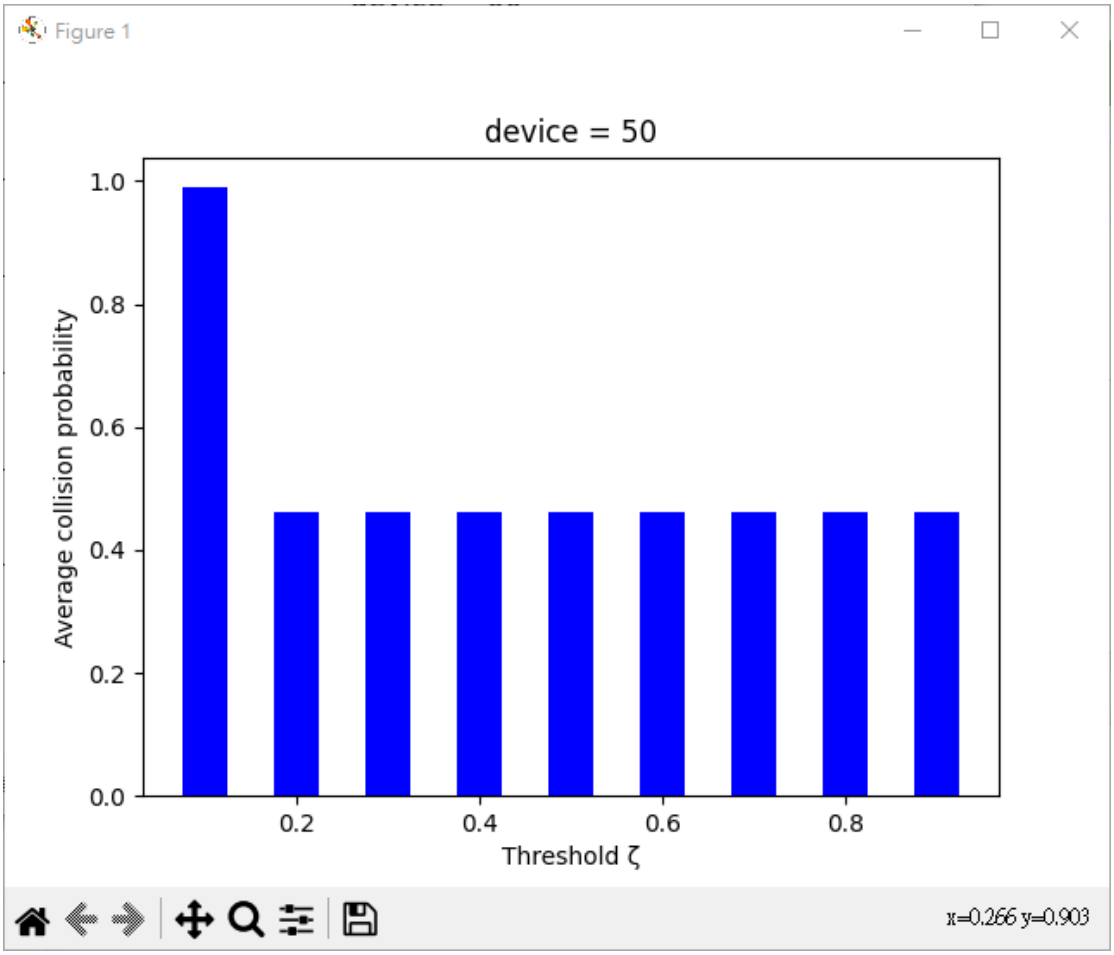


Figure 1
device = 50
Average collision probability
1.0
0.8
0.6
0.4
0.2
0.0
0.2
0.4
0.6
0.8
Threshold ζ
x=0.266 y=0.903

Device=60

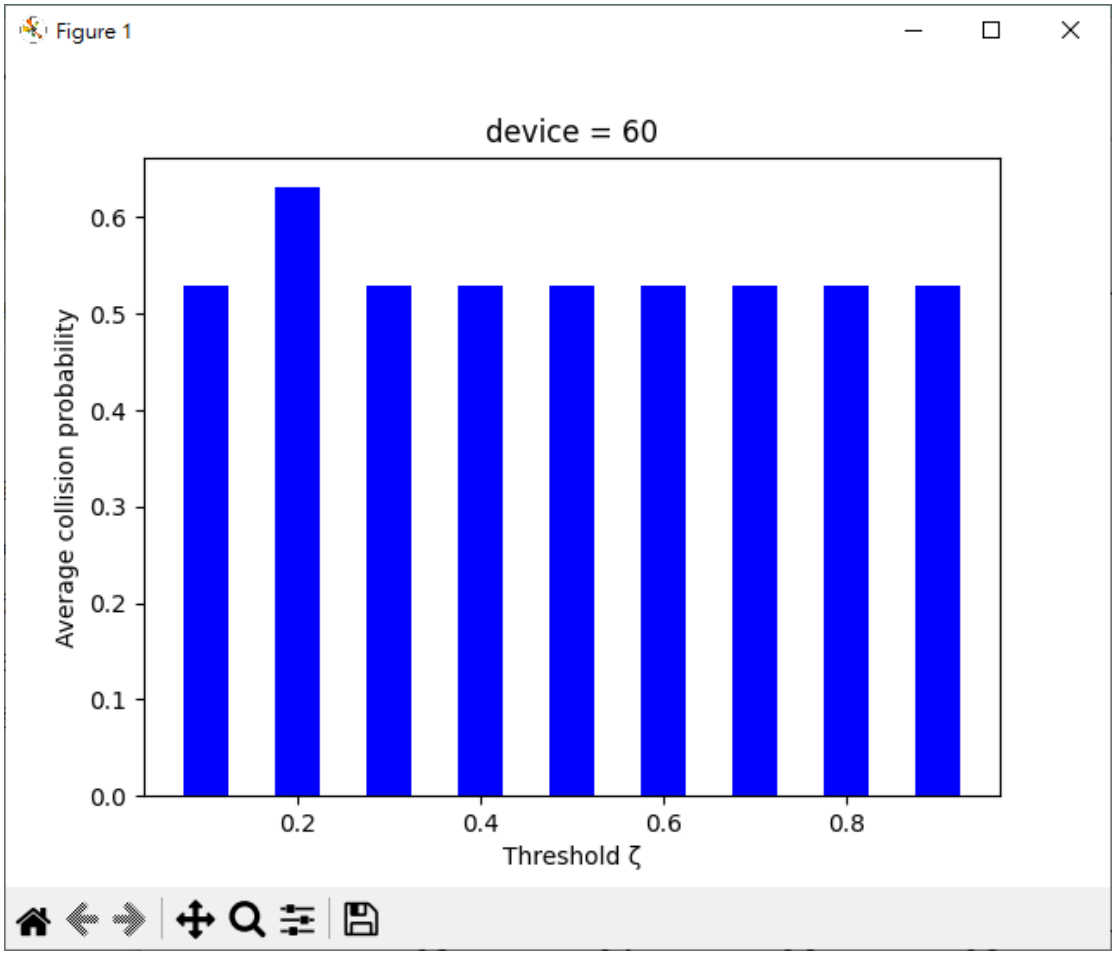


Figure 1
device = 60
Average collision probability
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.2
0.4
0.6
0.8
Threshold ζ

Device=70

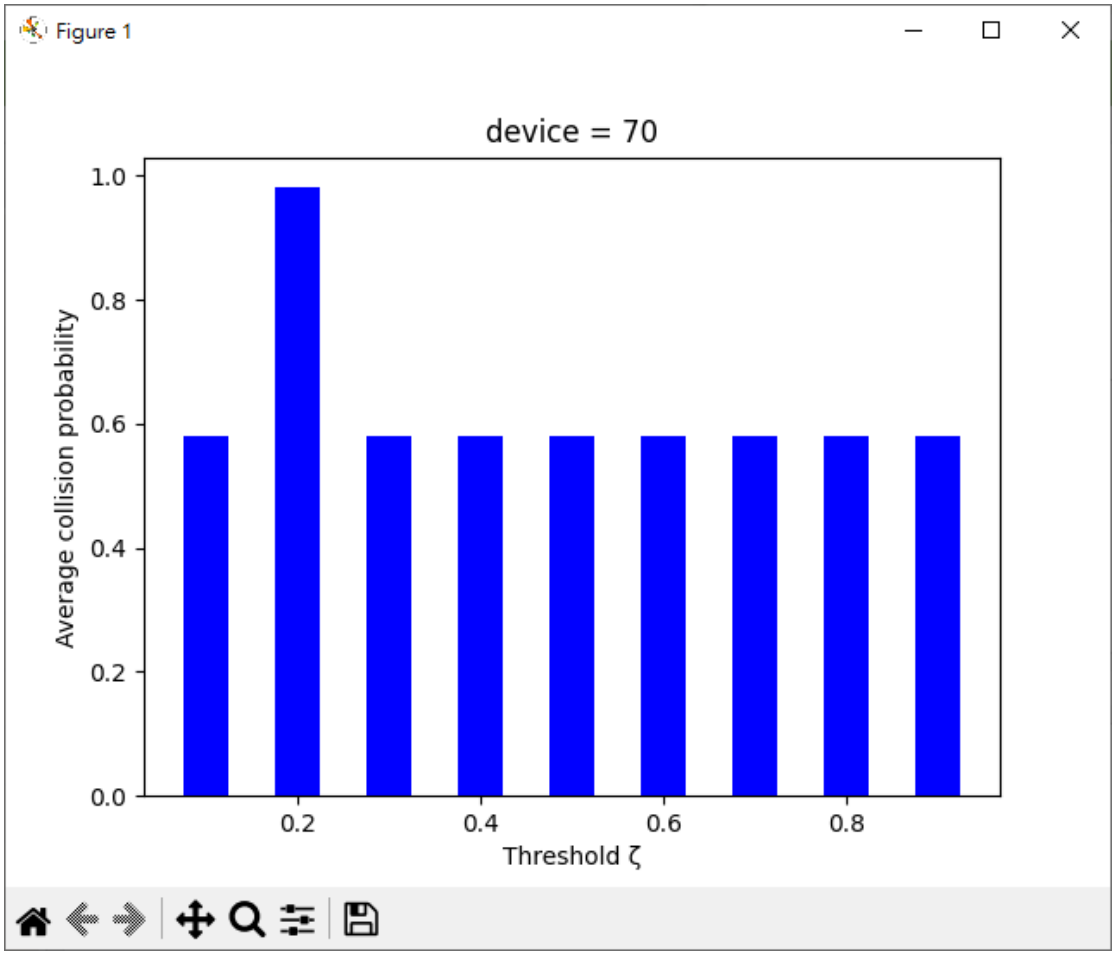


Figure 1
device = 70
Average collision probability
1.0
0.8
0.6
0.4
0.2
0.0
0.2
0.4
0.6
0.8
Threshold ζ