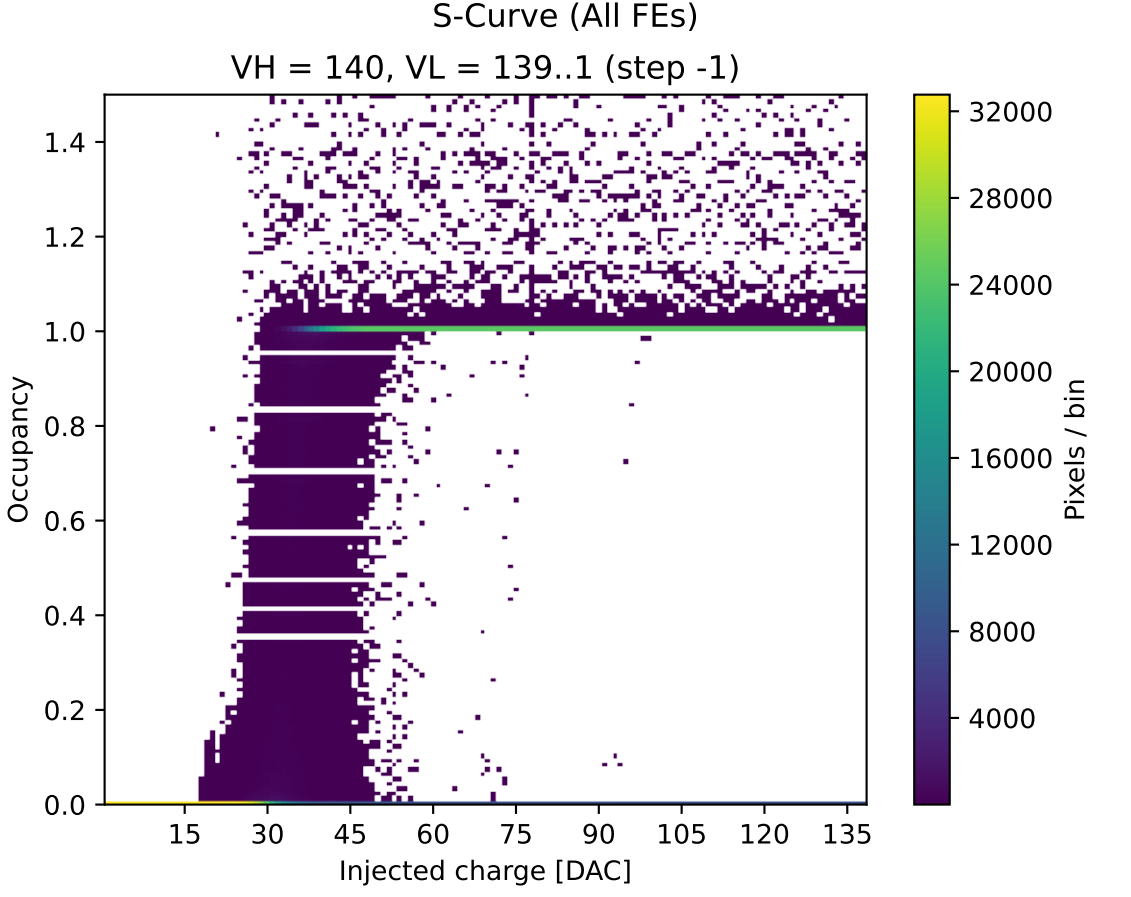
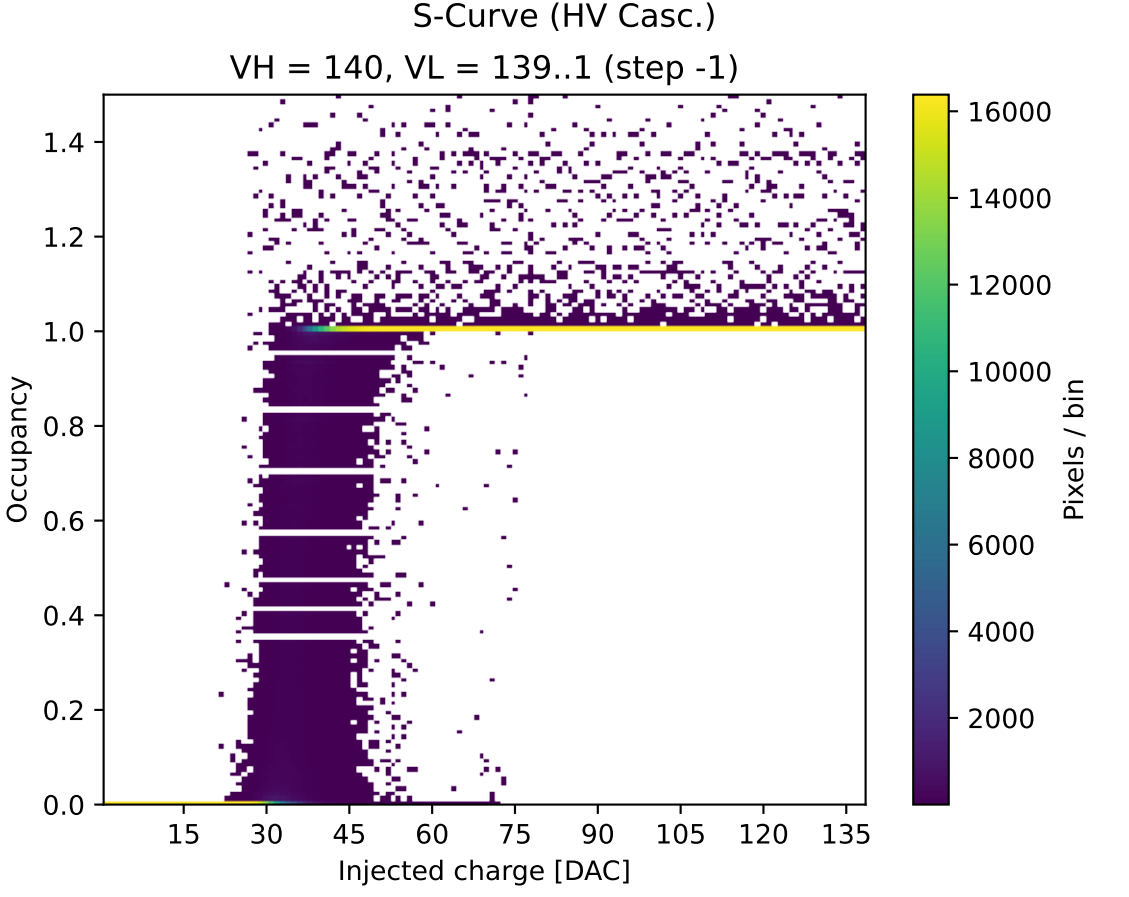
/mnt/c/Users/client/Desktop/tesi/tesi/Analisi/W14R12/threshold_scan/all_HV/140/
20221007_100832_threshold_scan_interpreted.h5
Chip = W14R12
Script version = a7ab7ad

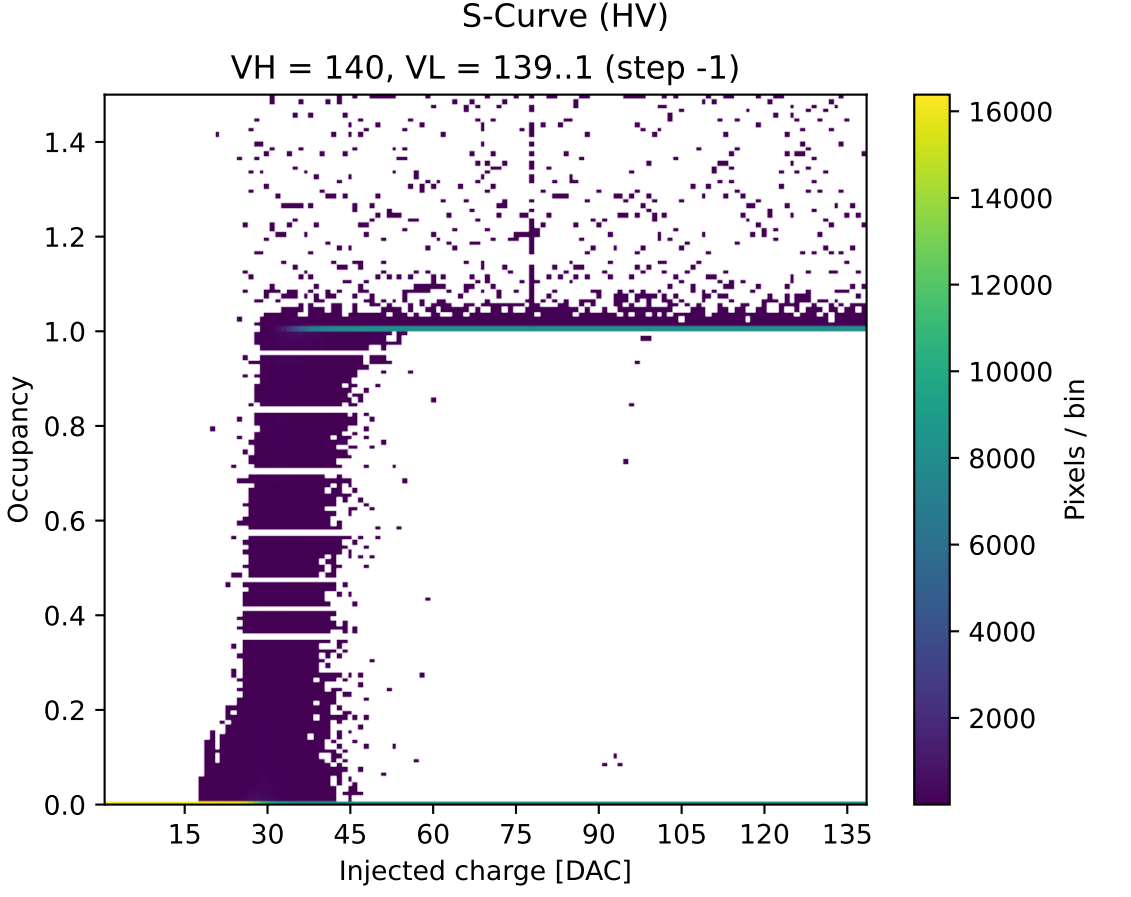
IBIAS = 60, ITHR = 30, ICASN = 8, IDB = 100, ITUNE = 53, VRESET = 100, VCASP =
40, VCASC = 228, VCLIP = 255, VL = 2, VH = 140, ICOMP = 80, IDEL = 88, IRAM = 50

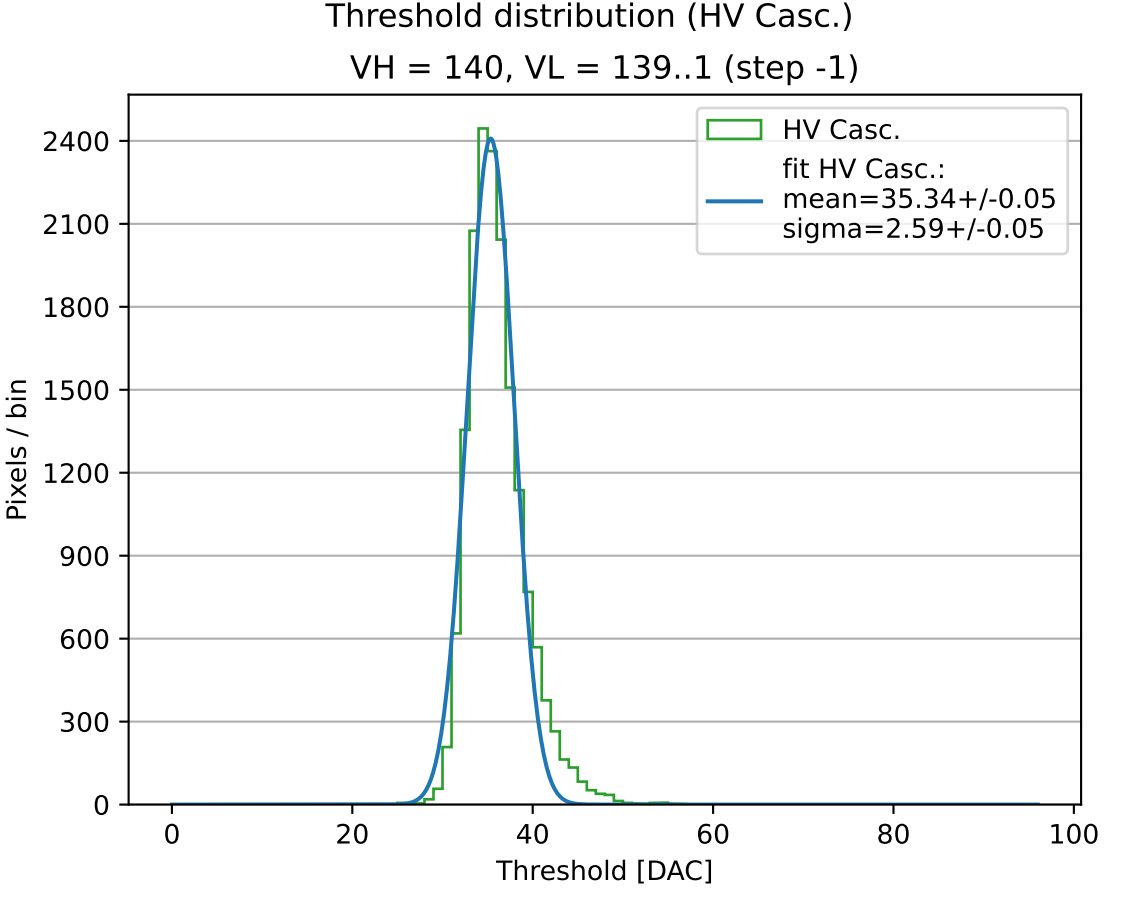
threshold_scan
start_column = 448, stop_column = 512, start_row = 0, stop_row = 512,
n_injections = 100, VCAL_HIGH = 140, VCAL_LOW_start = 139, VCAL_LOW_stop = 1,
VCAL_LOW_step = -1

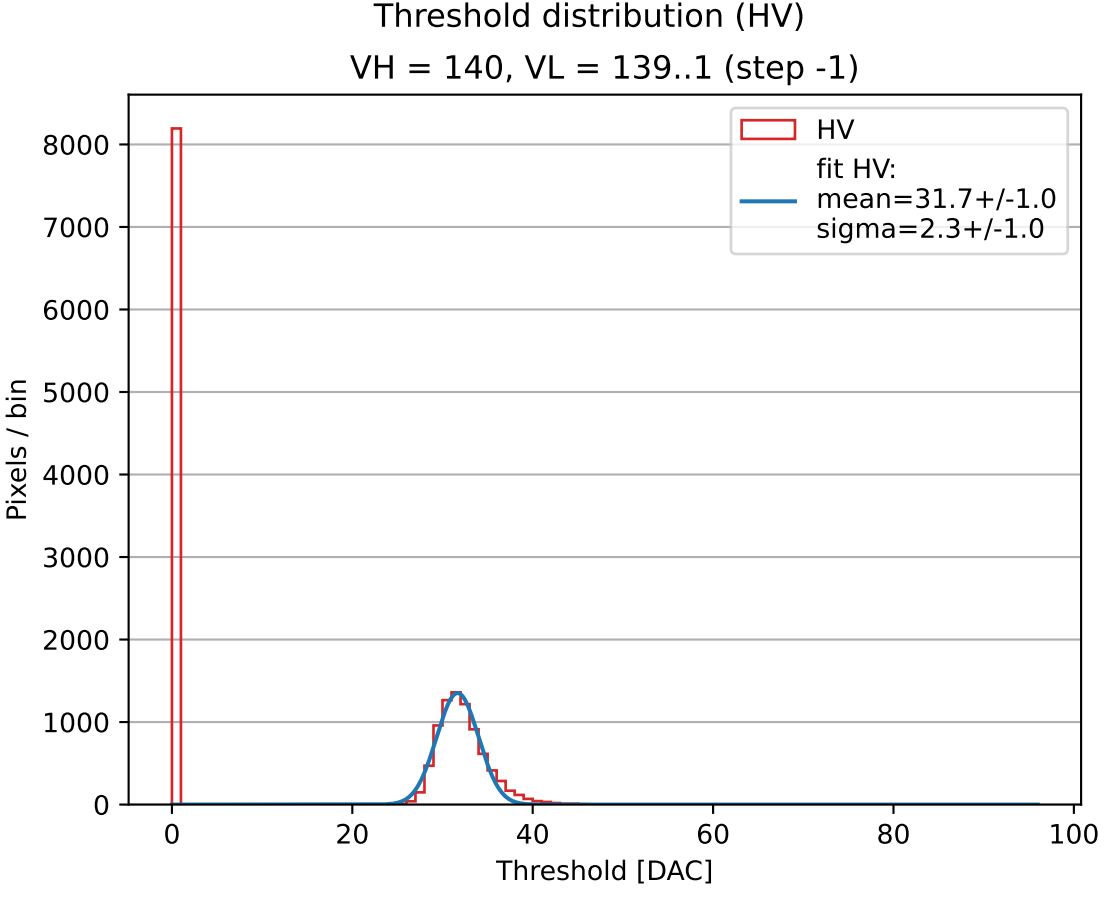
(483, 379) = 141.5, (485, 352) = 106.1, (483, 283) = 104.8, (486, 498) = 104.3
(480, 317) = 95.6, (494, 463) = 91.6, (493, 242) = 84.3, (491, 19) = 71.8
(476, 24) = 59.4, (483, 340) = 58.2, (494, 442) = 57.7, (483, 2) = 49.9
(479, 183) = 47.4, (474, 53) = 41.3, (481, 257) = 37.6, (476, 211) = 34.9
(494, 482) = 33.6, (461, 126) = 29.3, (469, 372) = 25.4, (465, 302) = 23.8
(484, 461) = 23.1, (467, 155) = 21.3, (468, 101) = 18.8, (467, 91) = 18.7
(493, 332) = 15.9, (487, 16) = 14.2, (495, 466) = 10.0, (487, 452) = 9.8
(465, 223) = 9.8, (480, 83) = 9.0, (492, 63) = 9.0, (471, 54) = 7.6
(489, 510) = 7.2, (493, 327) = 7.1, (491, 240) = 7.1, (452, 248) = 6.9
(473, 17) = 6.8, (464, 61) = 6.3, (495, 318) = 6.1, (481, 394) = 5.8
(487, 395) = 5.8, (471, 370) = 5.8, (483, 480) = 5.4, (481, 118) = 5.0
(493, 117) = 4.7, (459, 79) = 4.5, (456, 363) = 4.4, (495, 93) = 4.4
(493, 105) = 4.2, (491, 450) = 4.0, (483, 402) = 3.6, (477, 378) = 3.4
(485, 491) = 3.3, (493, 106) = 3.0, (483, 160) = 3.0, (495, 279) = 2.9
(491, 342) = 2.9, (494, 183) = 2.8, (489, 302) = 2.7, (481, 98) = 2.5
(487, 292) = 2.5, (487, 78) = 2.4, (485, 221) = 2.1, (483, 223) = 2.0
(483, 330) = 2.0, (481, 200) = 2.0, (477, 175) = 2.0, (491, 414) = 1.9
(495, 340) = 1.9, (489, 396) = 1.9, (480, 307) = 1.9, (493, 470) = 1.9
(491, 437) = 1.8, (483, 82) = 1.8, (473, 448) = 1.8, (495, 46) = 1.8
(491, 120) = 1.7, (493, 402) = 1.7, (491, 328) = 1.7, (495, 322) = 1.7
(489, 308) = 1.7, (485, 440) = 1.6, (489, 334) = 1.6, (492, 171) = 1.6
(494, 467) = 1.6, (449, 474) = 1.6, (486, 309) = 1.5, (487, 377) = 1.5
(467, 359) = 1.5, (481, 332) = 1.5, (479, 228) = 1.5, (481, 108) = 1.5
(487, 312) = 1.5, (479, 434) = 1.4, (475, 501) = 1.4, (480, 424) = 1.4
(494, 14) = 1.4, (483, 30) = 1.4, (487, 84) = 1.4, (489, 501) = 1.4,

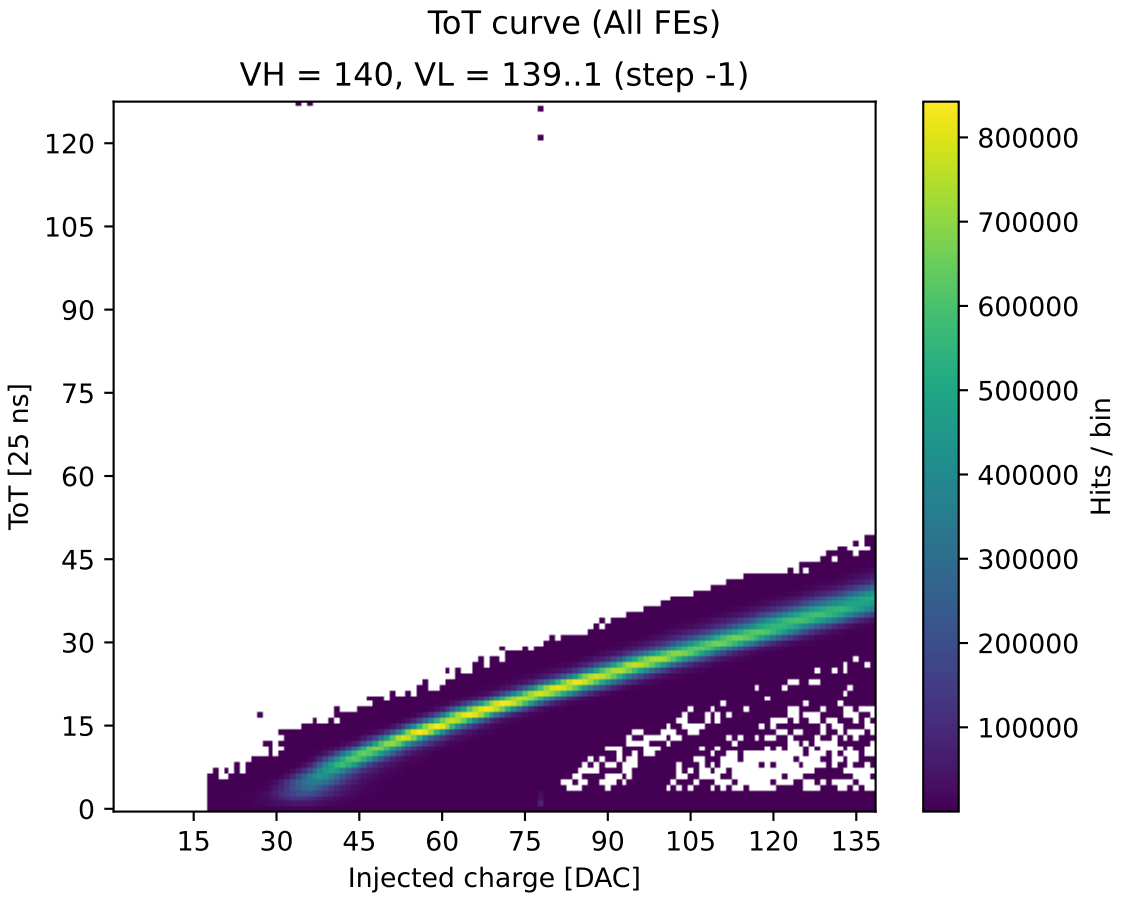

S-Curve (All FEs)
VH = 140, VL = 139..1 (step -1)
Occupancy
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
15
30
45
60
75
90
105
120
135
Injected charge [DAC]
Pixels / bin
4000
8000
12000
16000
20000
24000
28000
32000

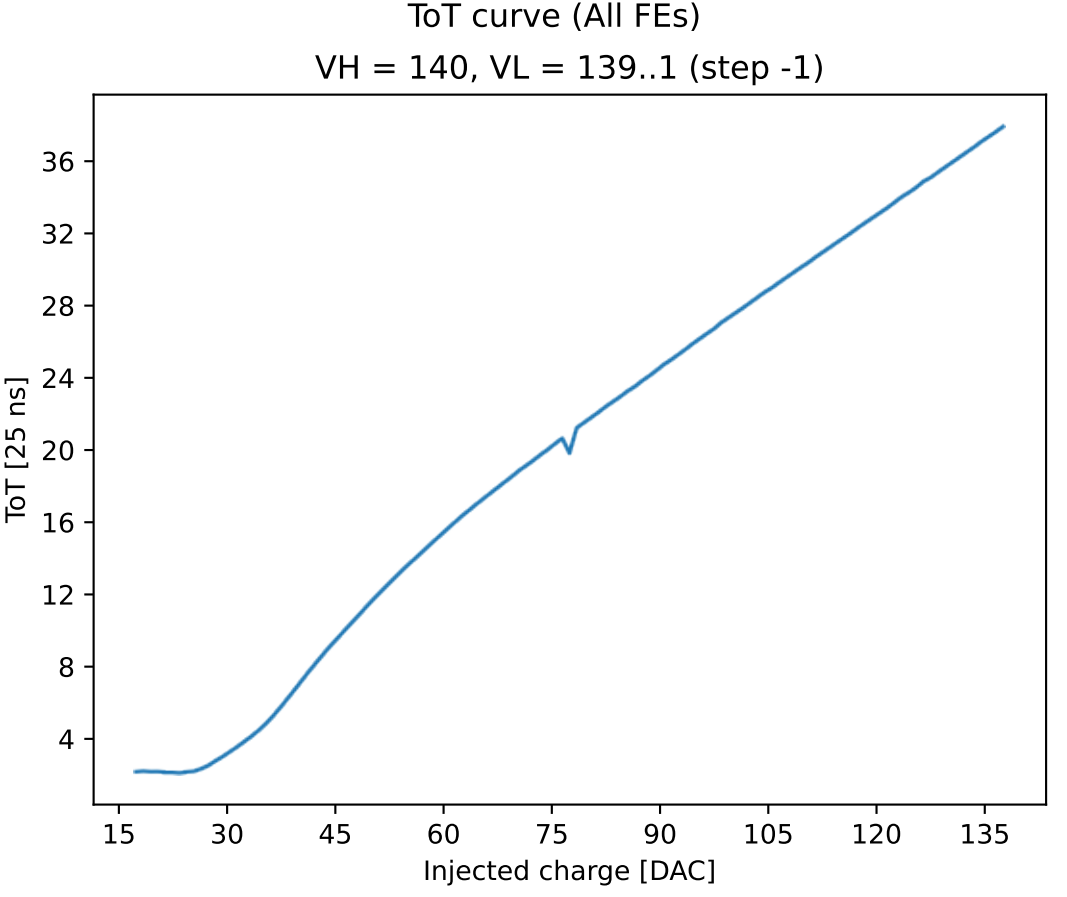

S-Curve (HV Casc.)
VH = 140, VL = 139..1 (step -1)
Occupancy
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
15
30
45
60
75
90
105
120
135
Injected charge [DAC]
16000
14000
12000
10000
8000
6000
4000
2000
Pixels / bin

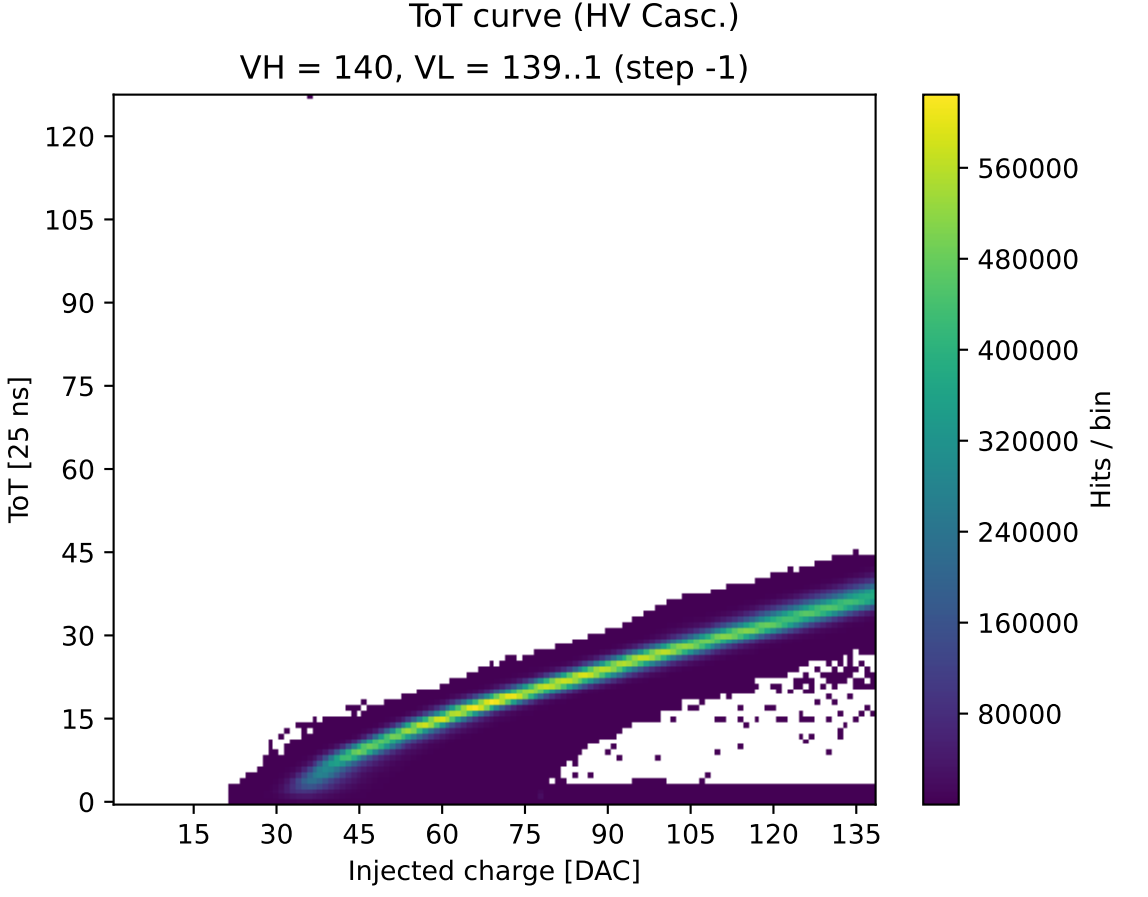

S-Curve (HV)
VH = 140, VL = 139..1 (step -1)
Occupancy
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
15
30
45
60
75
90
105
120
135
Injected charge [DAC]
Pixels / bin
2000
4000
6000
8000
10000
12000
14000
16000

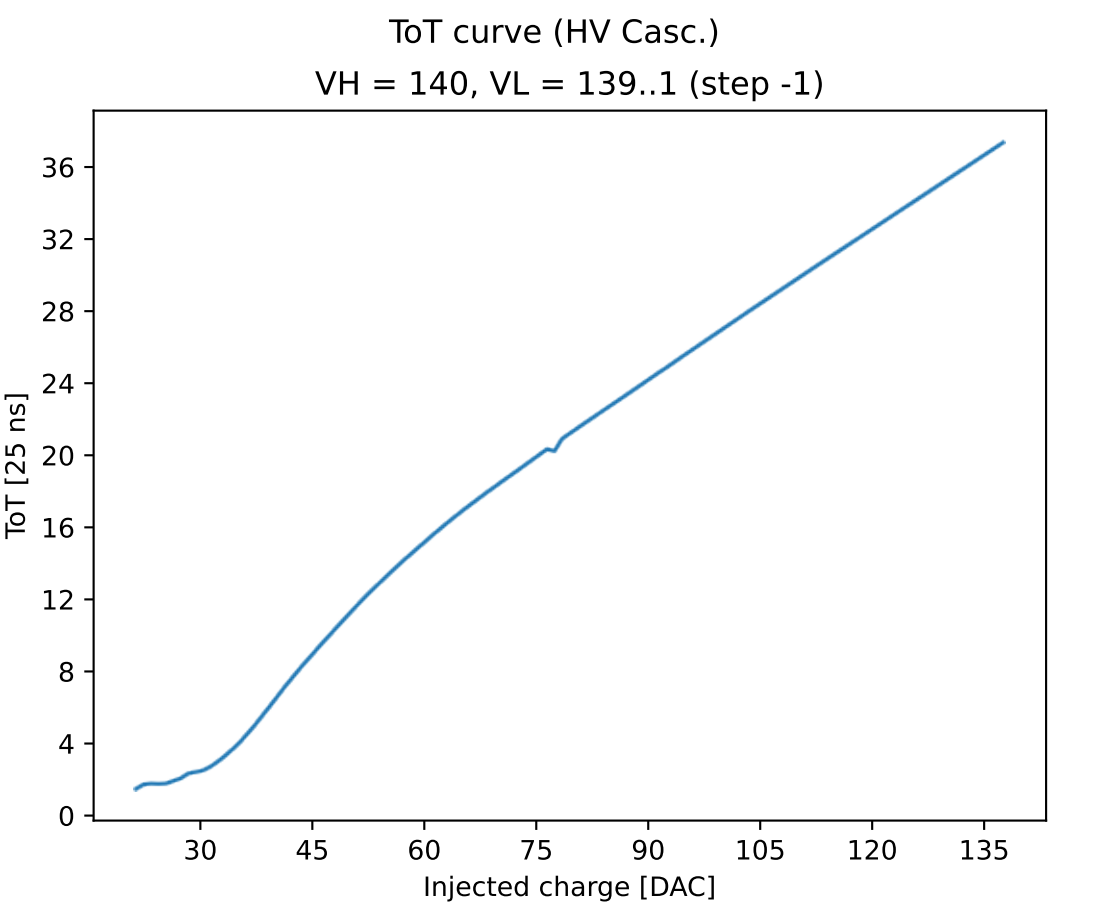

Threshold distribution (HV Casc.)
VH = 140, VL = 139..1 (step -1)
HV Casc.
fit HV Casc.:
mean=35.34+/-0.05
sigma=2.59+/-0.05
Pixels / bin
Threshold [DAC]
0
300
600
900
1200
1500
1800
2100
2400
0
20
40
60
80
100

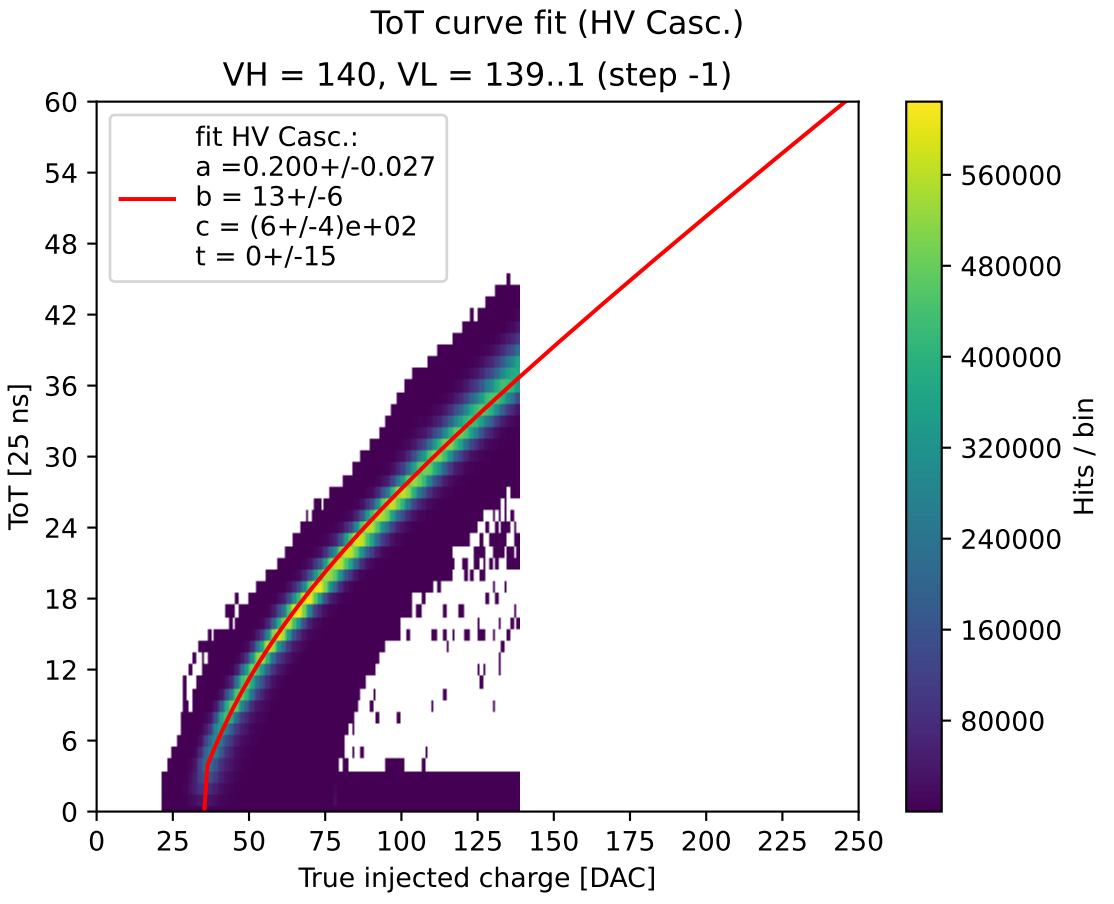

Threshold distribution (HV)
VH = 140, VL = 139..1 (step -1)
HV
fit HV:
mean=31.7+/-1.0
sigma=2.3+/-1.0
Pixels / bin
Threshold [DAC]
0
1000
2000
3000
4000
5000
6000
7000
8000
0
20
40
60
80
100

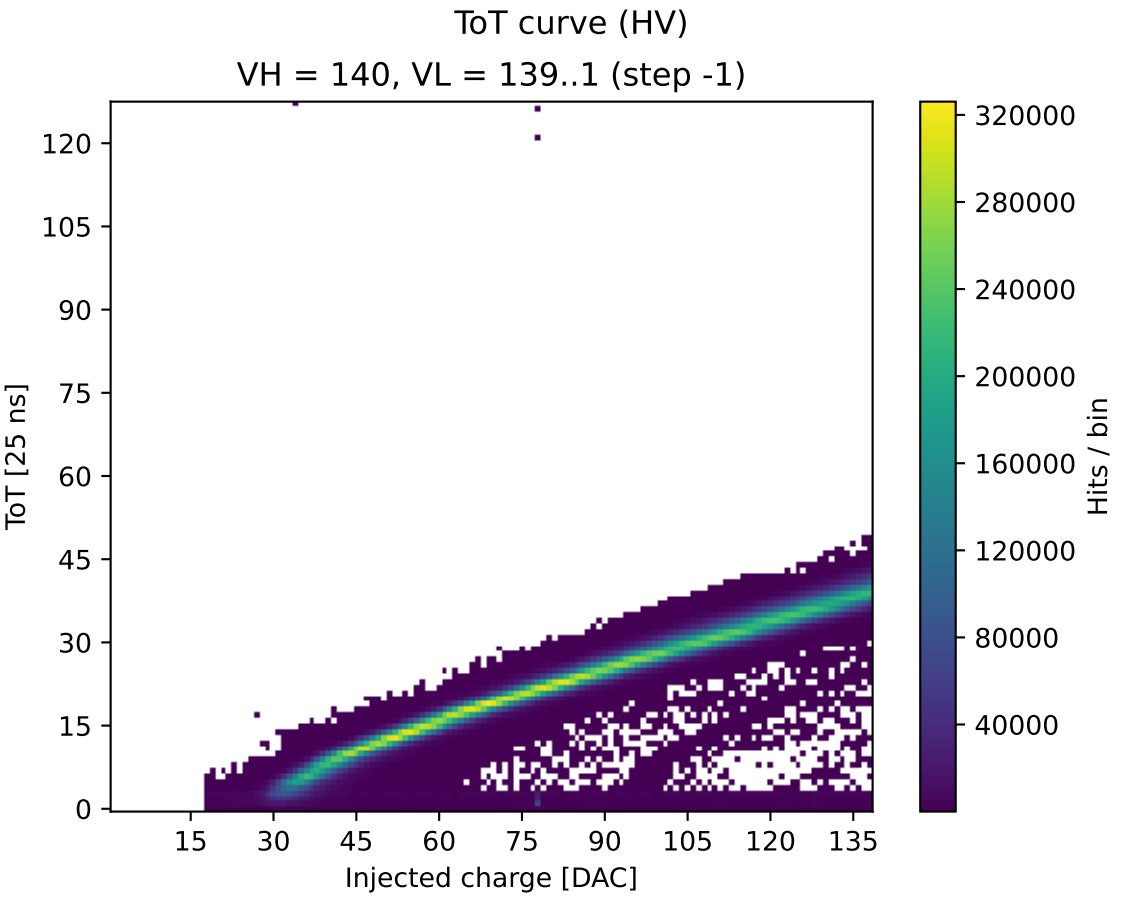

ToT curve (All FEs)
VH = 140, VL = 139..1 (step -1)
ToT [25 ns]
0
15
30
45
60
75
90
105
120
Injected charge [DAC]
15
30
45
60
75
90
105
120
135
Hits / bin
800000
700000
600000
500000
400000
300000
200000
100000

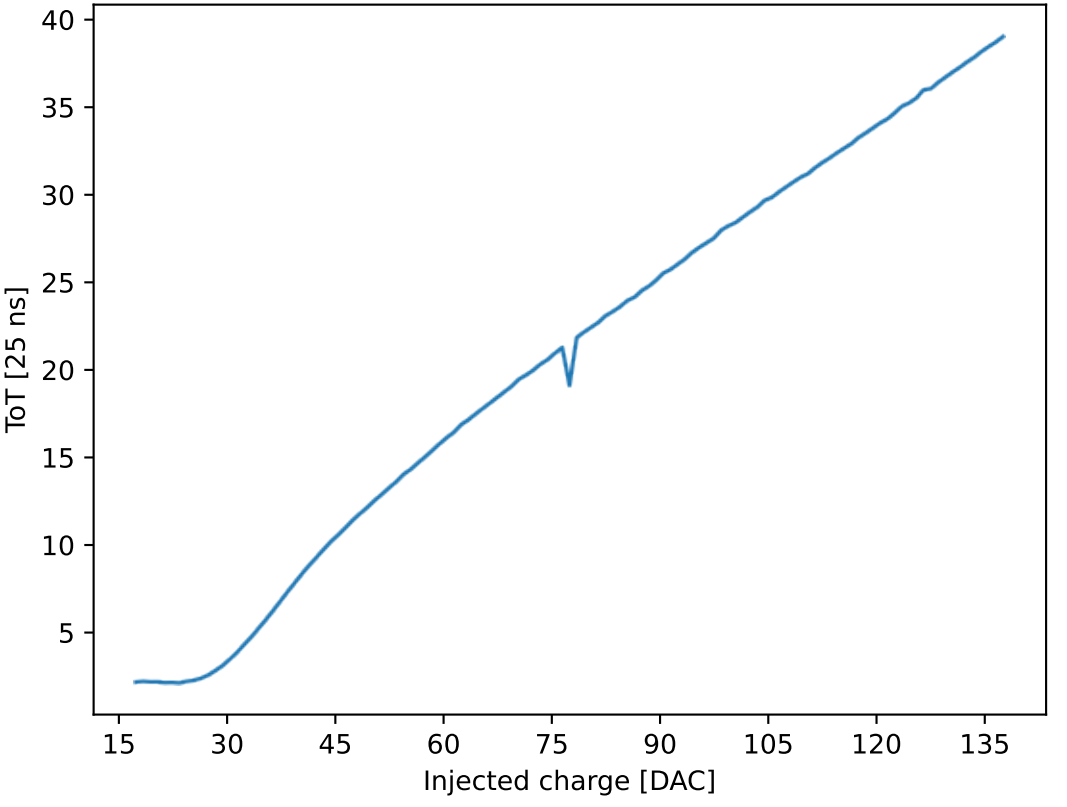

ToT curve (All FEs)
VH = 140, VL = 139..1 (step -1)
ToT [25 ns]
4
8
12
16
20
24
28
32
36
15
30
45
60
75
90
105
120
135
Injected charge [DAC]

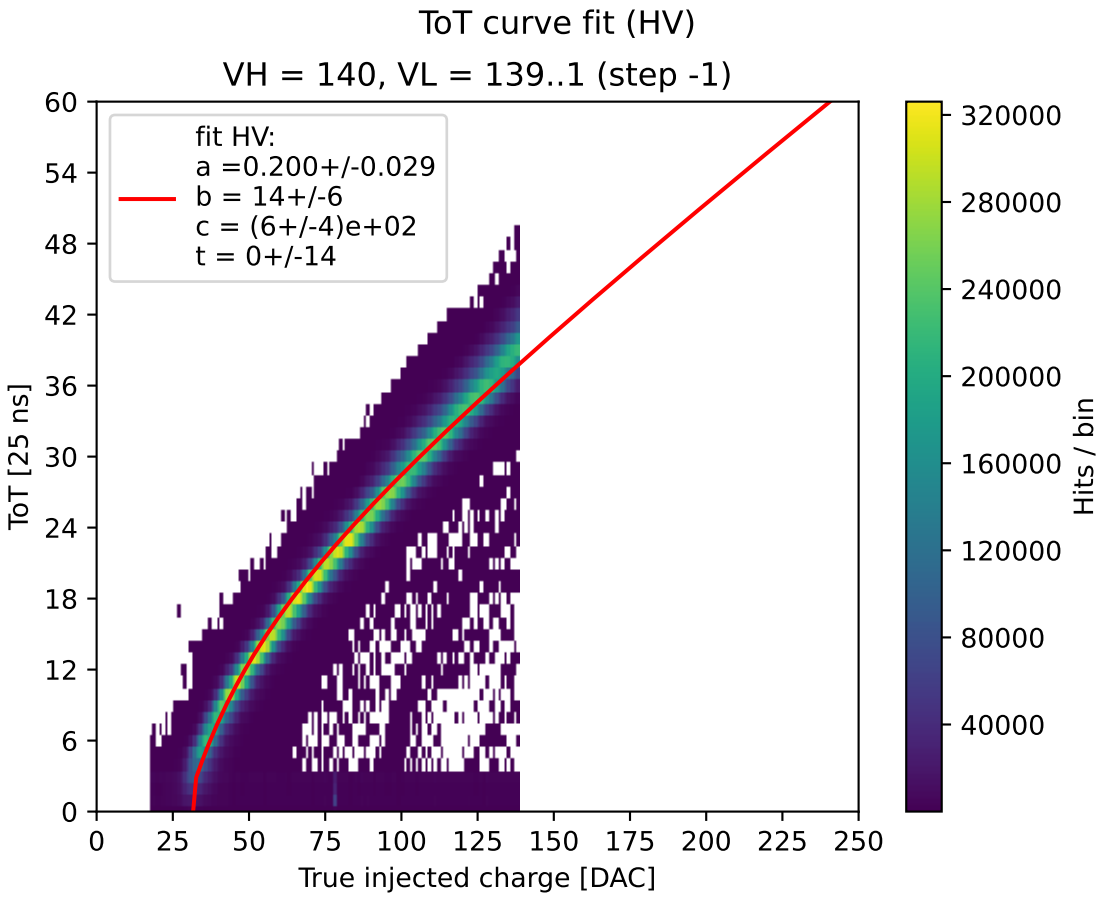

ToT curve (HV Casc.)
VH = 140, VL = 139..1 (step -1)
ToT [25 ns]
0
15
30
45
60
75
90
105
120
15
30
45
60
75
90
105
120
135
Injected charge [DAC]
Hits / bin
560000
480000
400000
320000
240000
160000
80000


ToT curve (HV Casc.)
VH = 140, VL = 139..1 (step -1)
ToT [25 ns]
0
4
8
12
16
20
24
28
32
36
30
45
60
75
90
105
120
135
Injected charge [DAC]


ToT curve fit (HV Casc.)
VH = 140, VL = 139..1 (step -1)
fit HV Casc.:
a =0.200+/-0.027
b = 13+/-6
c = (6+/-4)e+02
t = 0+/-15
ToT [25 ns]
True injected charge [DAC]
Hits / bin
0
6
12
18
24
30
36
42
48
54
60
0
25
50
75
100
125
150
175
200
225
250
80000
160000
240000
320000
400000
480000
560000


ToT curve (HV)
VH = 140, VL = 139..1 (step -1)
ToT [25 ns]
0
15
30
45
60
75
90
105
120
15
30
45
60
75
90
105
120
135
Injected charge [DAC]
320000
280000
240000
200000
160000
120000
80000
40000
Hits / bin


ToT curve (HV)
VH = 140, VL = 139..1 (step -1)
ToT [25 ns]
40
35
30
25
20
15
10
5
15
30
45
60
75
90
105
120
135
Injected charge [DAC]


ToT curve fit (HV)
VH = 140, VL = 139..1 (step -1)
fit HV:
a =0.200+/-0.029
b = 14+/-6
c = (6+/-4)e+02
t = 0+/-14
ToT [25 ns]
True injected charge [DAC]
Hits / bin
0
6
12
18
24
30
36
42
48
54
60
0
25
50
75
100
125
150
175
200
225
250
40000
80000
120000
160000
200000
240000
280000
320000