

/mnt/c/Users/client/Desktop/tesi/tesi/Analysis/W14R12/threshold_scan/all_HV/200/
20221007_110853_threshold_scan_interpreted.h5

Chip = W14R12

Script version = 915a739

IBIAS = 60, ITHR = 30, ICASN = 8, IDB = 100, ITUNE = 53, VRESET = 100, VCASP =
40, VCASC = 228, VCLIP = 255, VL = 2, VH = 200, ICOMP = 80, IDEL = 88, IRAM = 50

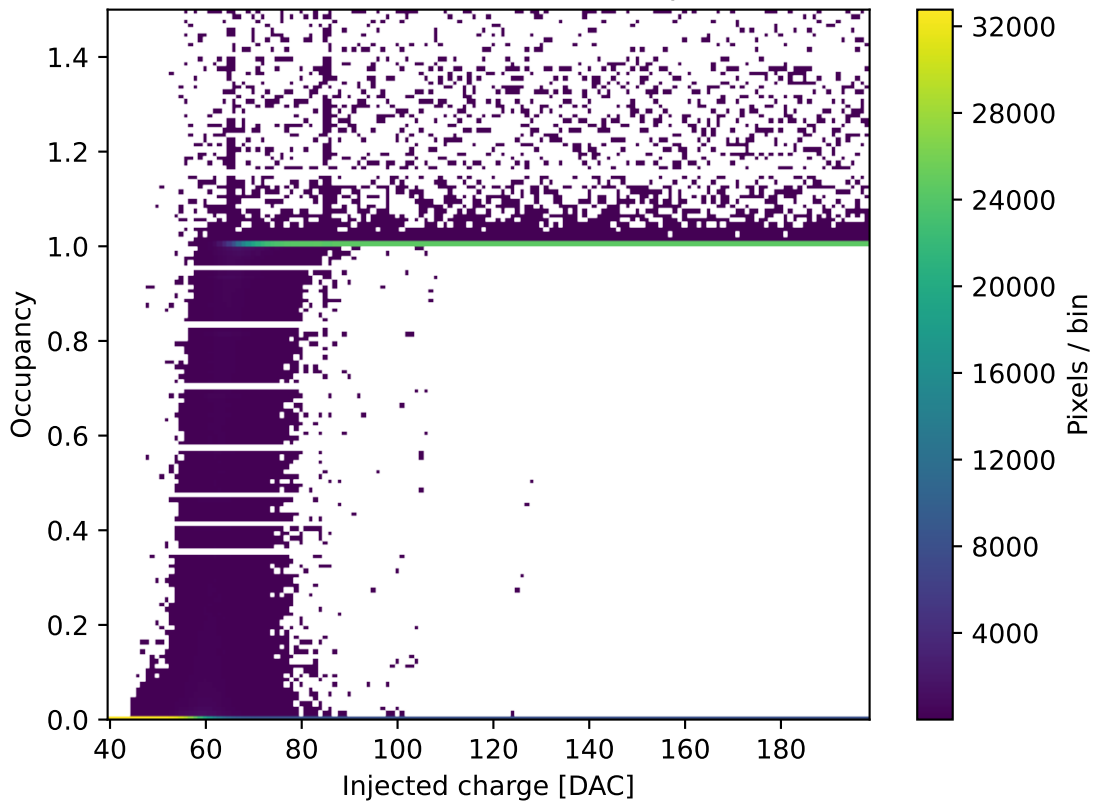
threshold_scan

start_column = 448, stop_column = 512, start_row = 0, stop_row = 512,
n_injections = 100, VCAL_HIGH = 200, VCAL_LOW_start = 160, VCAL_LOW_stop = 1,
VCAL_LOW_step = -1

145.8
 (476, 24) = 132.6, (494, 442) = 117.5, (483, 340) = 116.5, (479, 183) = 106.8
 (483, 2) = 106.2, (474, 53) = 105.2, (461, 126) = 96.3, (476, 211) = 86.1
 (467, 155) = 86.0, (465, 302) = 84.5, (494, 482) = 77.8, (452, 248) = 75.7
 (467, 91) = 74.8, (481, 257) = 74.7, (469, 372) = 65.5, (468, 101) = 65.3
 (459, 79) = 61.3, (484, 461) = 46.5, (449, 474) = 39.7, (465, 223) = 39.2
 (493, 332) = 36.2, (448, 351) = 29.8, (456, 363) = 29.5, (464, 61) = 29.4
 (487, 16) = 28.6, (471, 54) = 25.9, (492, 63) = 24.7, (455, 96) = 21.8
 (487, 452) = 20.1, (495, 466) = 20.1, (473, 17) = 18.0, (491, 240) = 17.0
 (493, 327) = 15.4, (451, 373) = 15.4, (480, 83) = 14.6, (471, 370) = 13.5
 (487, 395) = 11.8, (495, 318) = 11.4, (495, 93) = 11.4, (481, 394) = 11.0
 (489, 510) = 10.9, (481, 118) = 9.4, (485, 491) = 9.2, (483, 402) = 8.4
 (453, 85) = 8.3, (483, 480) = 8.0, (448, 13) = 7.6, (493, 117) = 7.2
 (477, 378) = 7.0, (493, 106) = 6.3, (451, 76) = 6.1, (491, 342) = 5.8
 (487, 292) = 5.5, (493, 105) = 5.5, (483, 160) = 5.5, (477, 175) = 5.3
 (494, 183) = 5.3, (481, 98) = 4.9, (487, 78) = 4.8, (483, 223) = 4.8
 (495, 279) = 4.4, (473, 448) = 4.1, (483, 82) = 3.9, (491, 414) = 3.9
 (491, 450) = 3.8, (453, 461) = 3.8, (483, 330) = 3.7, (489, 302) = 3.5
 (485, 221) = 3.5, (480, 307) = 3.4, (493, 402) = 3.4, (453, 145) = 3.3
 (493, 470) = 3.1, (495, 340) = 3.1, (489, 396) = 2.9, (494, 14) = 2.9
 (481, 200) = 2.9, (475, 501) = 2.8, (492, 171) = 2.7, (491, 120) = 2.6
 (471, 456) = 2.6, (494, 467) = 2.6, (489, 308) = 2.5, (491, 328) = 2.5

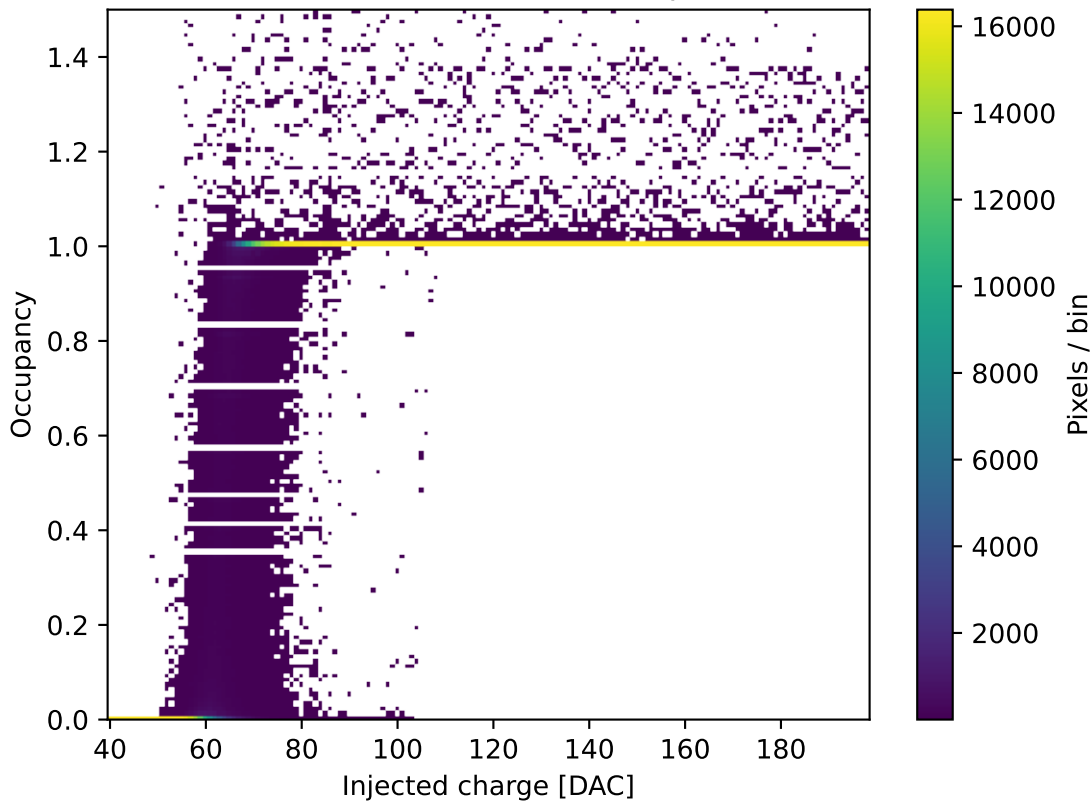
S-Curve (All FEs)

VH = 200, VL = 160..1 (step -1)



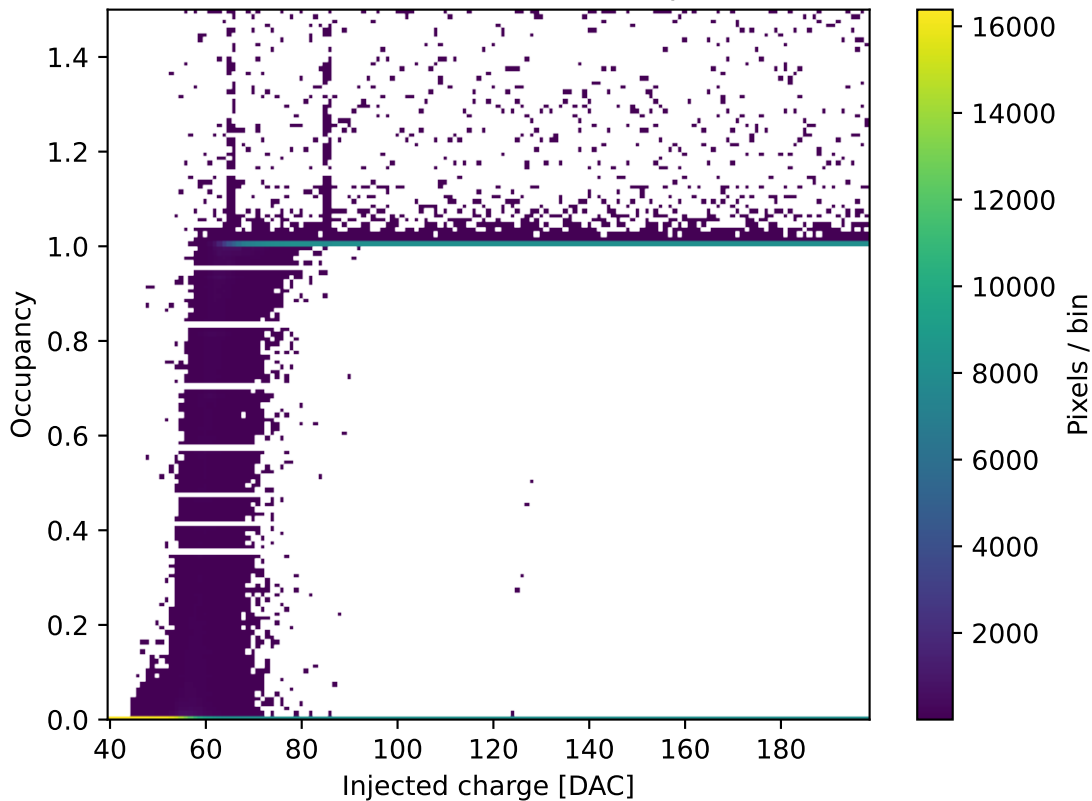
S-Curve (HV Casc.)

VH = 200, VL = 160..1 (step -1)



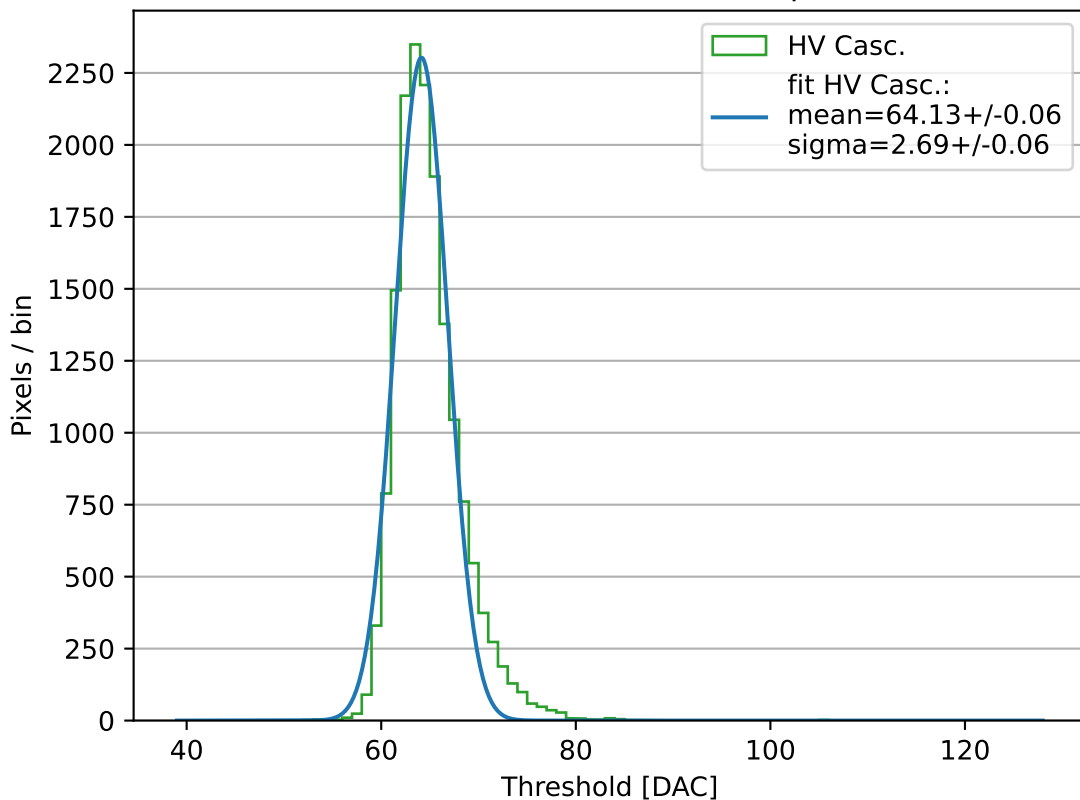
S-Curve (HV)

VH = 200, VL = 160..1 (step -1)



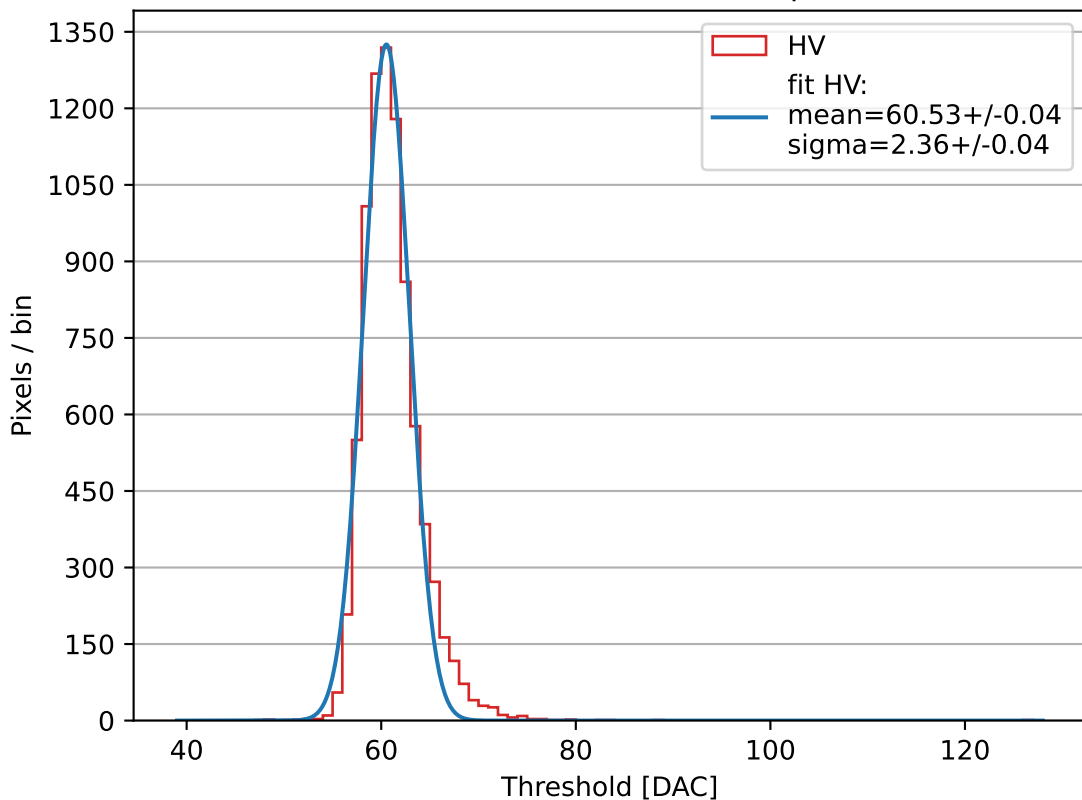
Threshold distribution (HV Casc.)

VH = 200, VL = 160..1 (step -1)



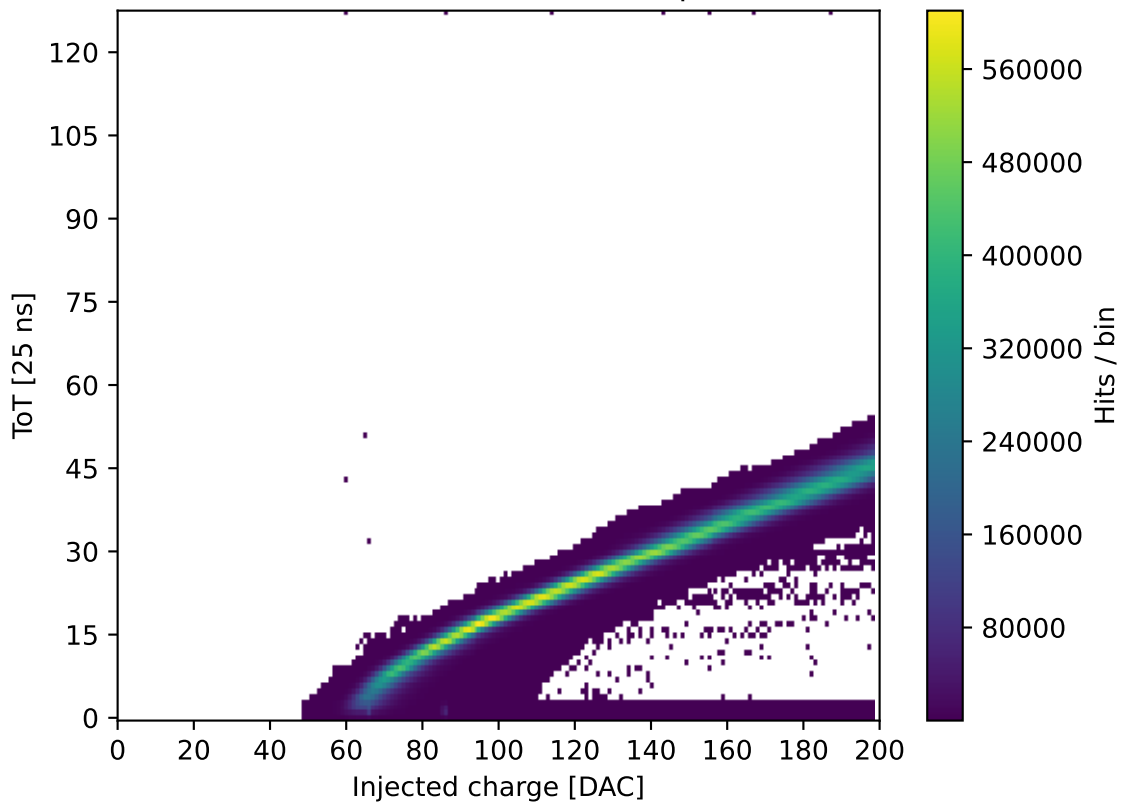
Threshold distribution (HV)

VH = 200, VL = 160..1 (step -1)

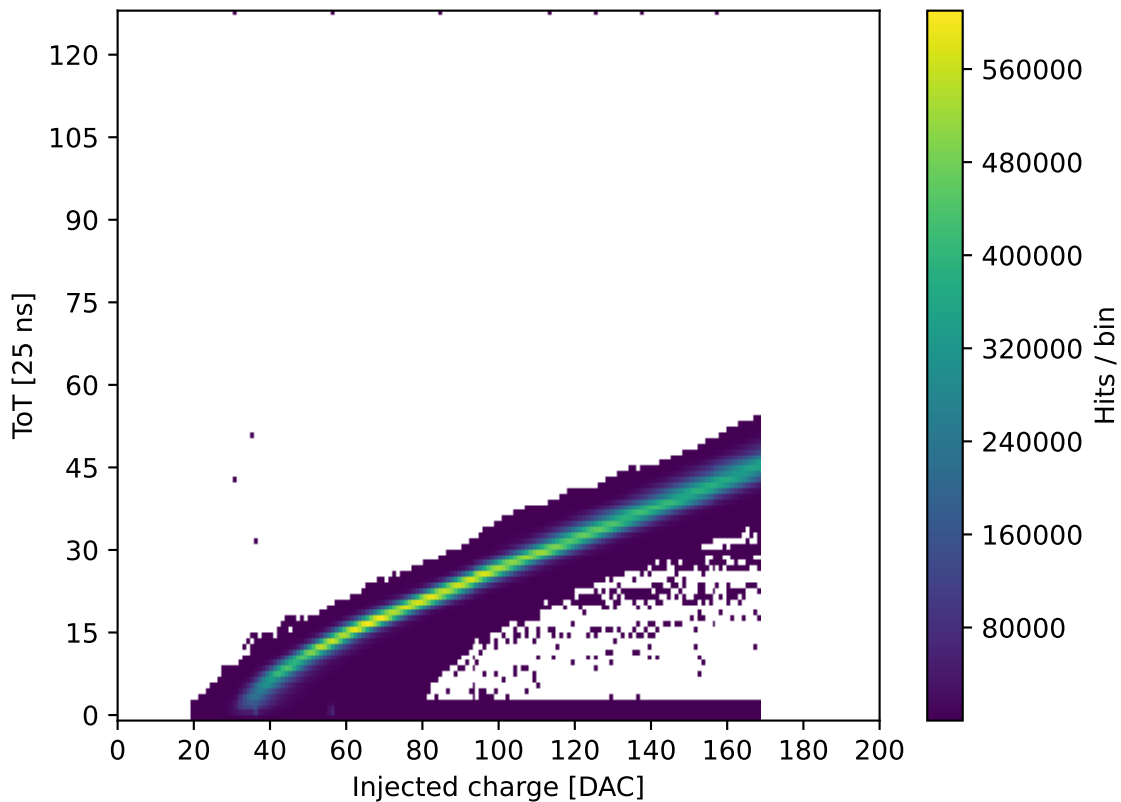


ToT curve (HV Casc.)

VH = 200, VL = 160..1 (step -1)

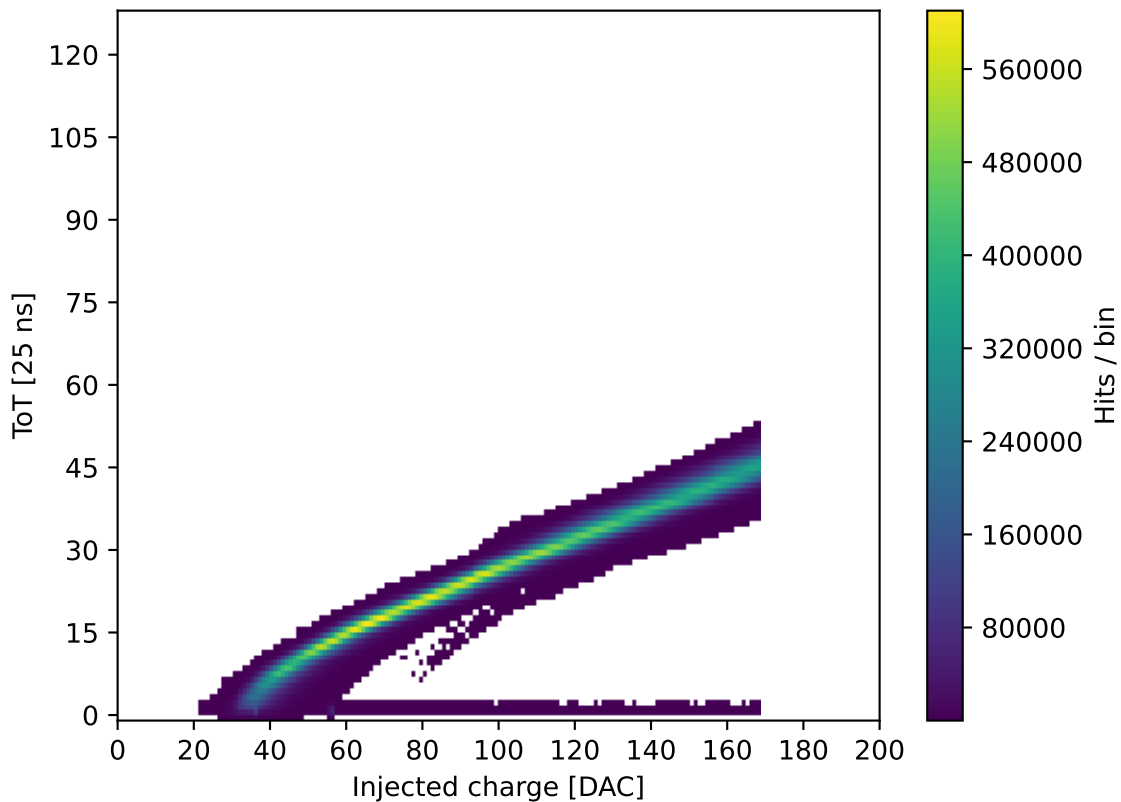


ToT curve (HV Casc.)



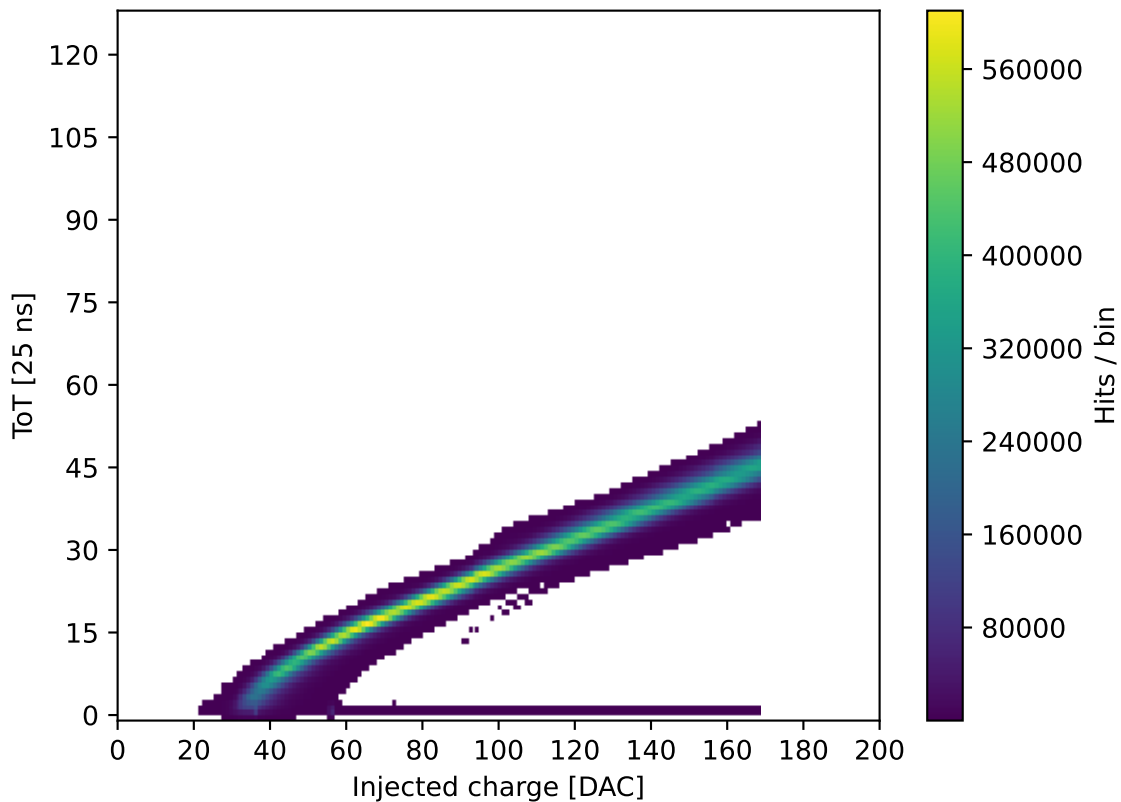
ToT curve (HV Casc.)

Hits/bin > 100



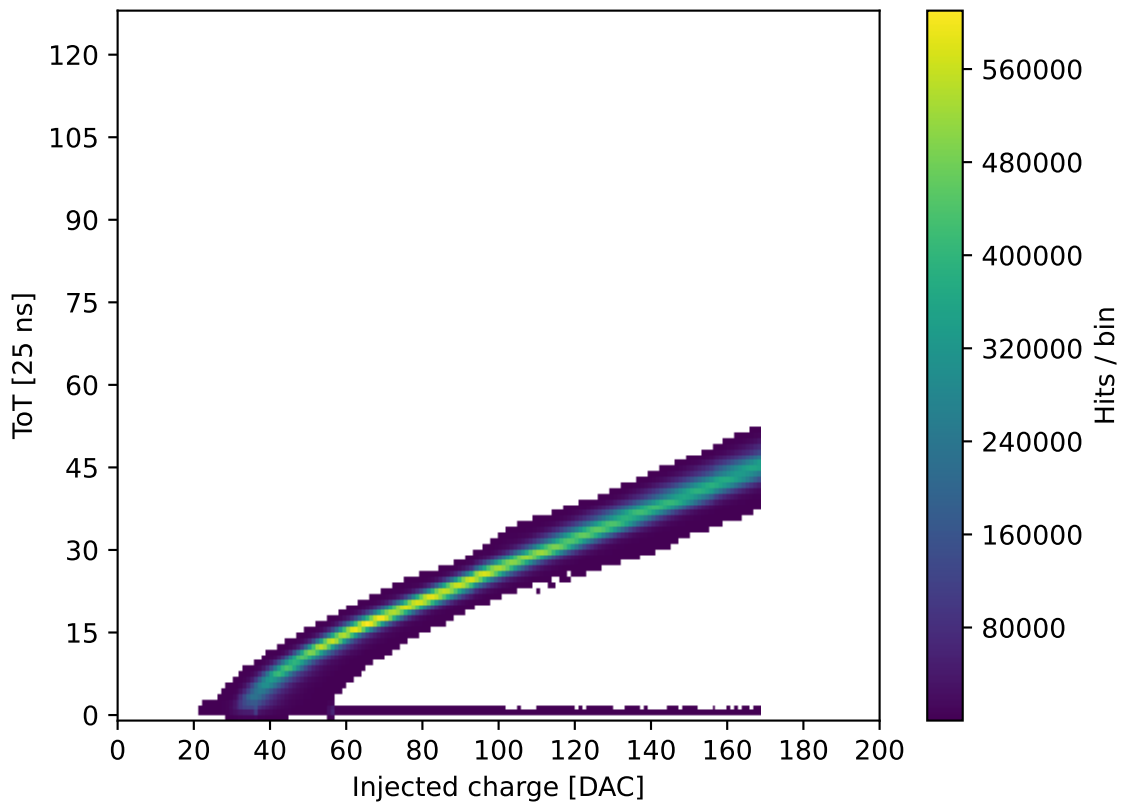
ToT curve (HV Casc.)

Hits/bin > 200



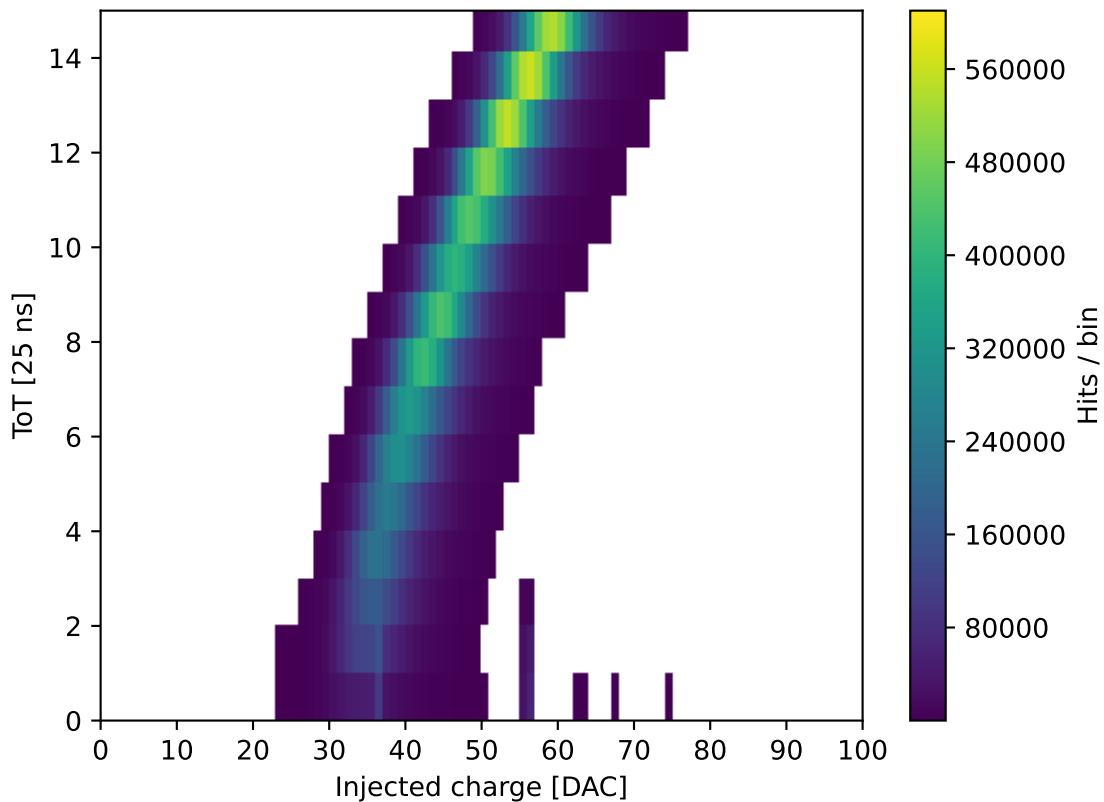
ToT curve (HV Casc.)

Hits/bin > 300



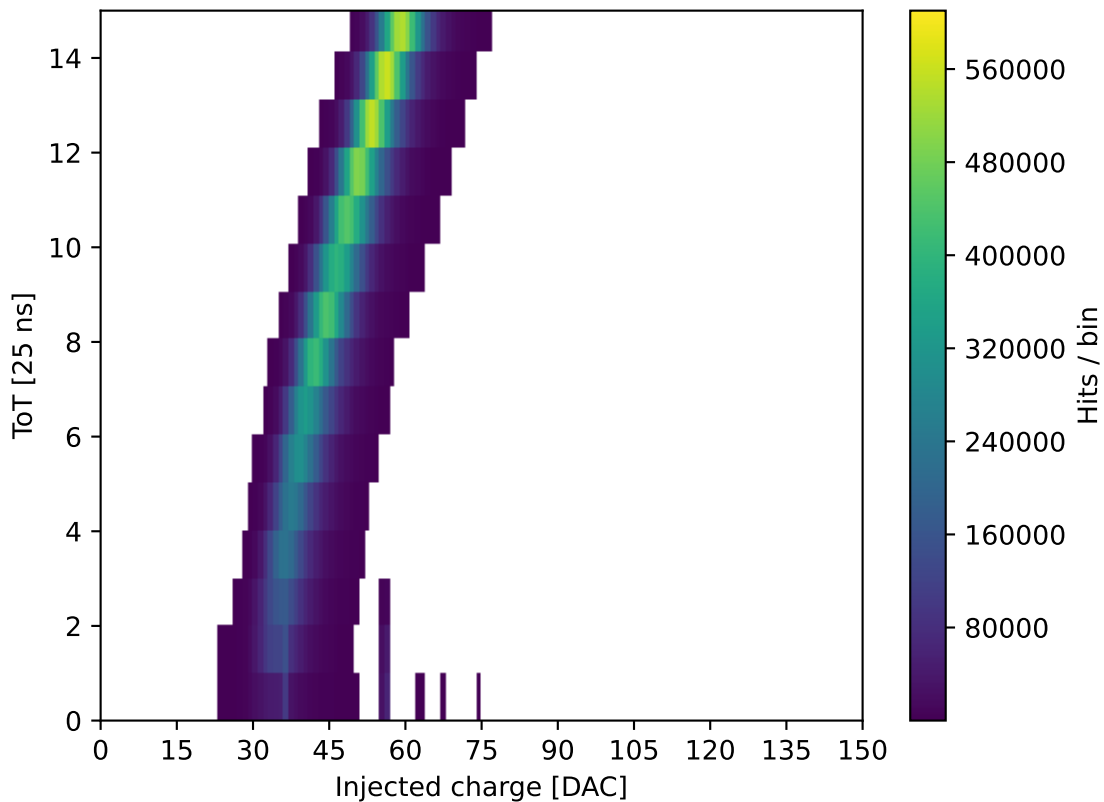
ToT curve (HV Casc.)

Hits/bin > 1000



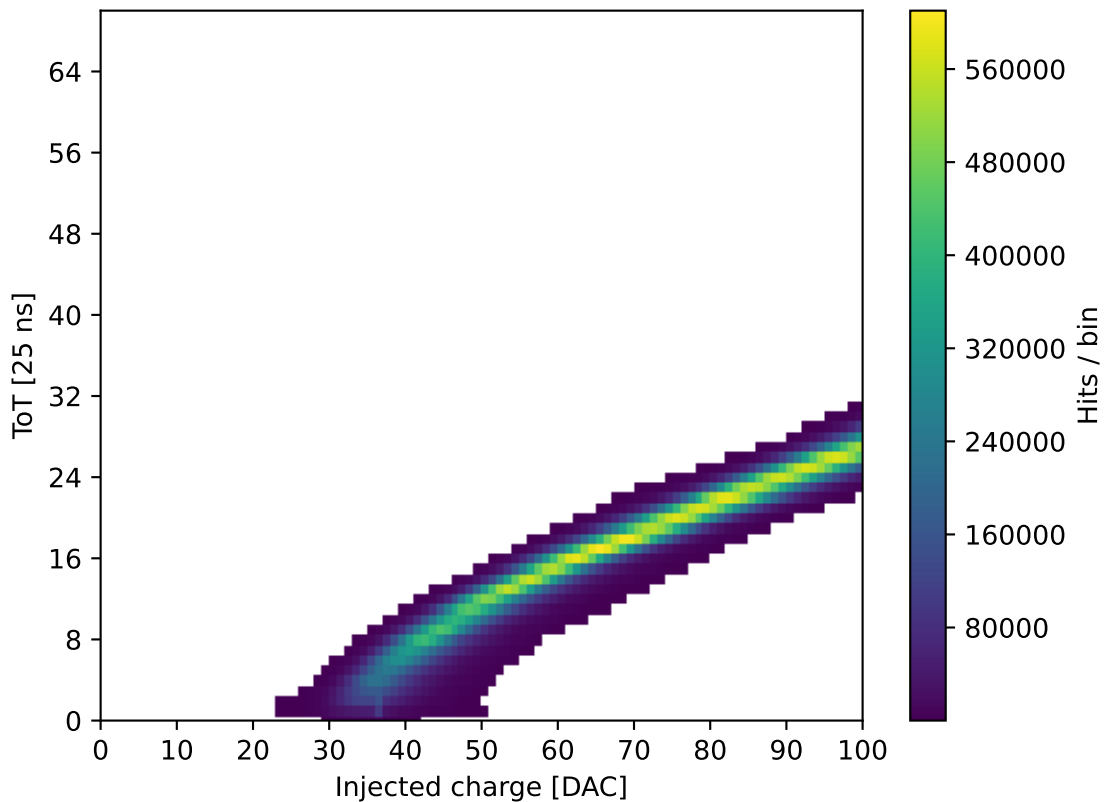
ToT curve (HV Casc.)

Hits/bin > 1000



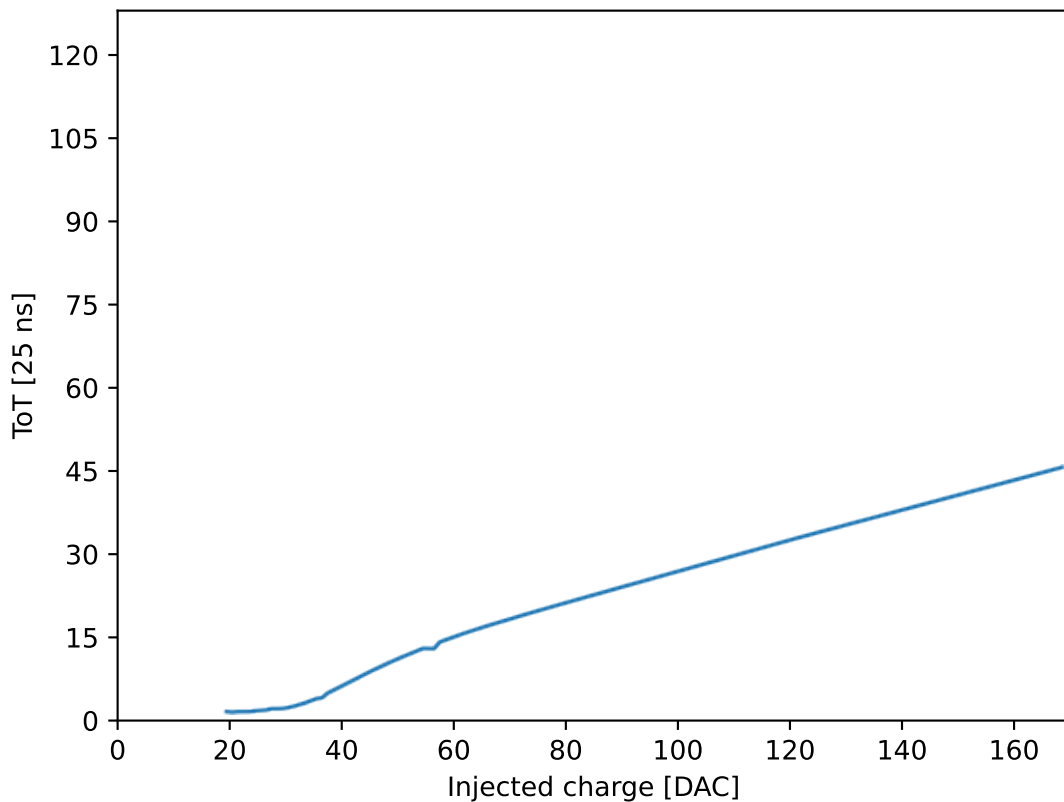
ToT curve (HV Casc.)

Hits/bin > 1000, clean



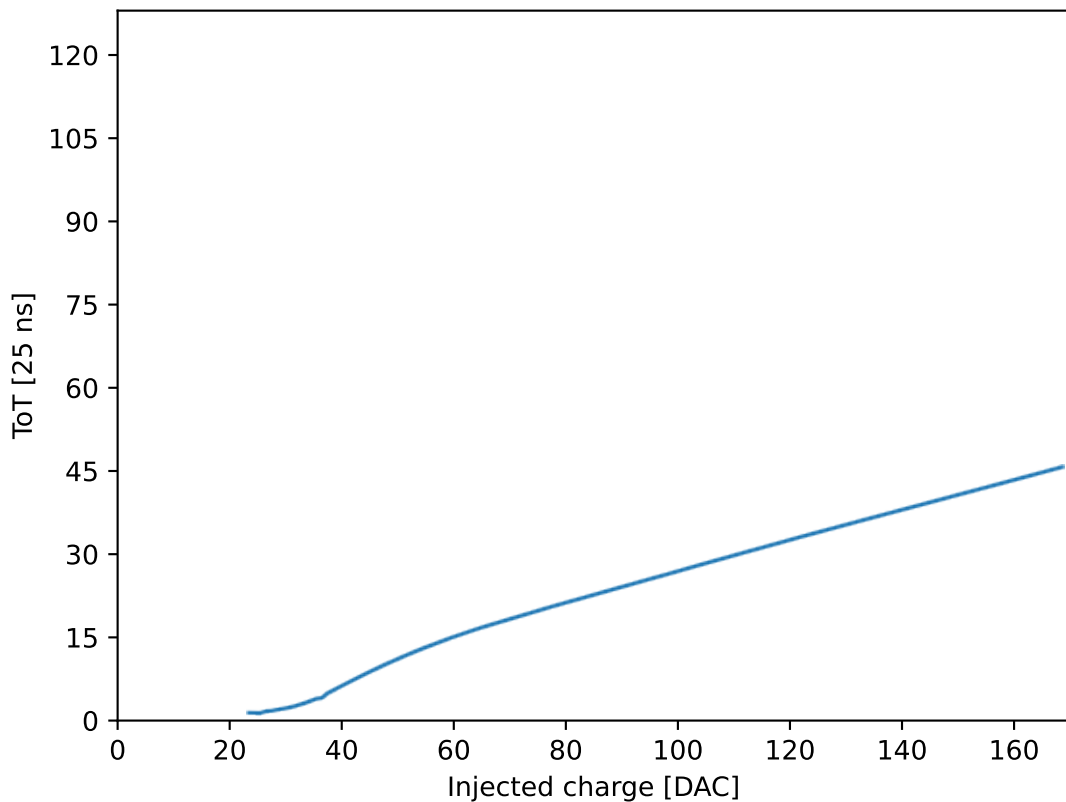
ToT curve (HV Casc.)

Mean of ToT for each value of injected charge

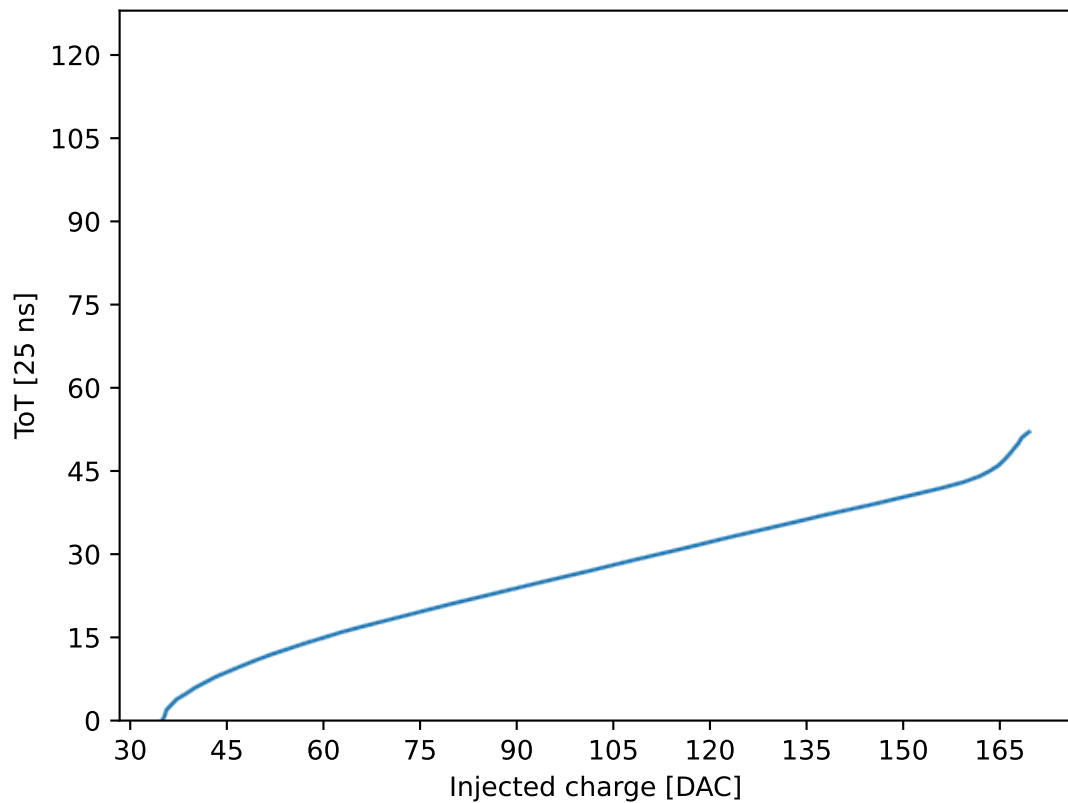


ToT curve (HV Casc.)

Mean of ToT for each value of injected charge (hits/bin>1000, clean)

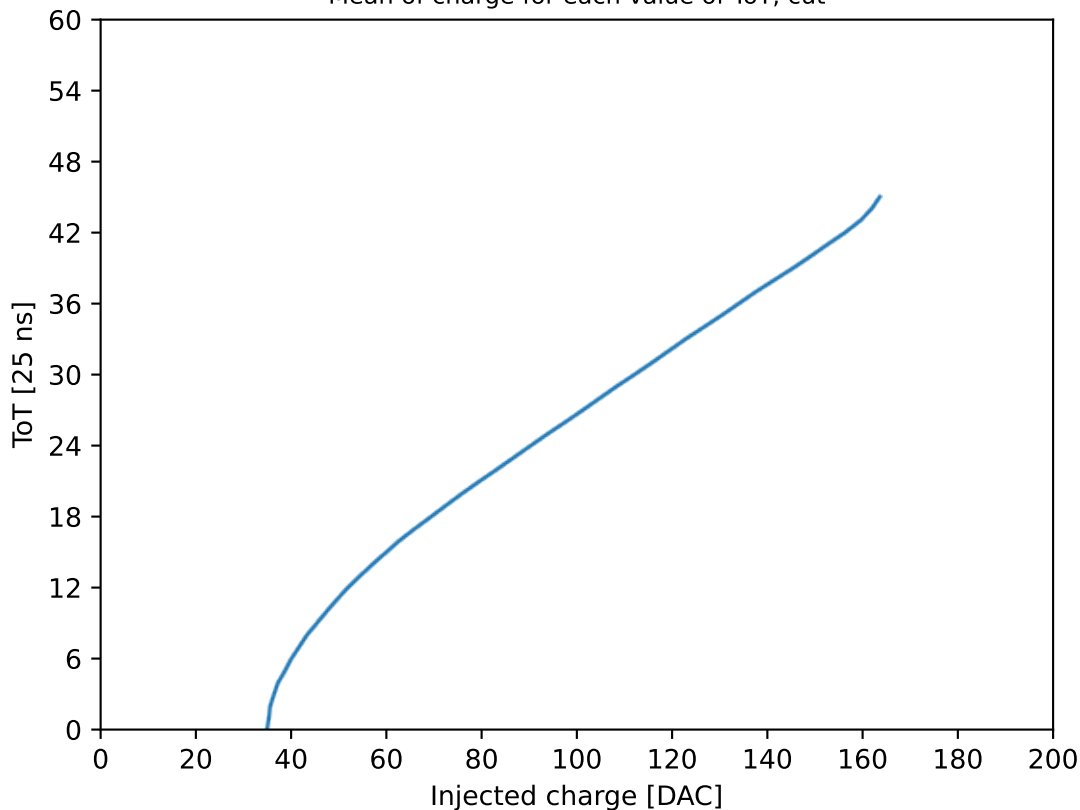


ToT curve mean on charge (HV Casc.)



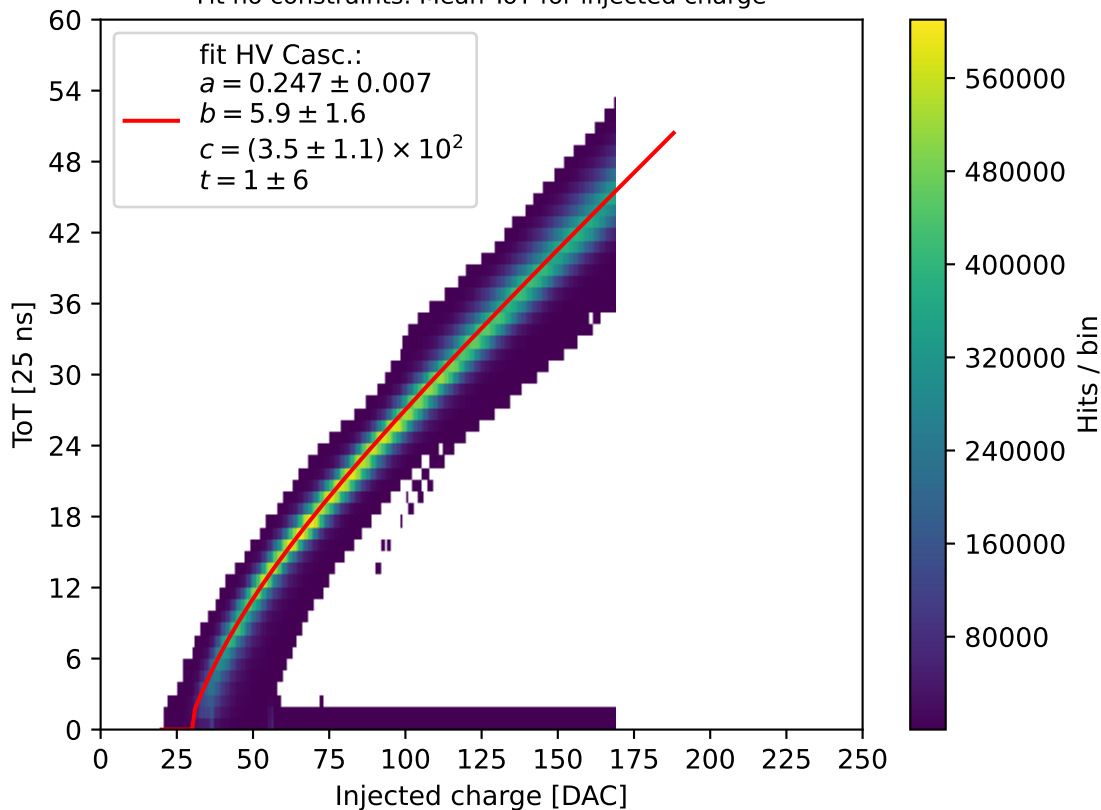
ToT curve mean on charge (HV Casc.)

Mean of charge for each value of ToT, cut



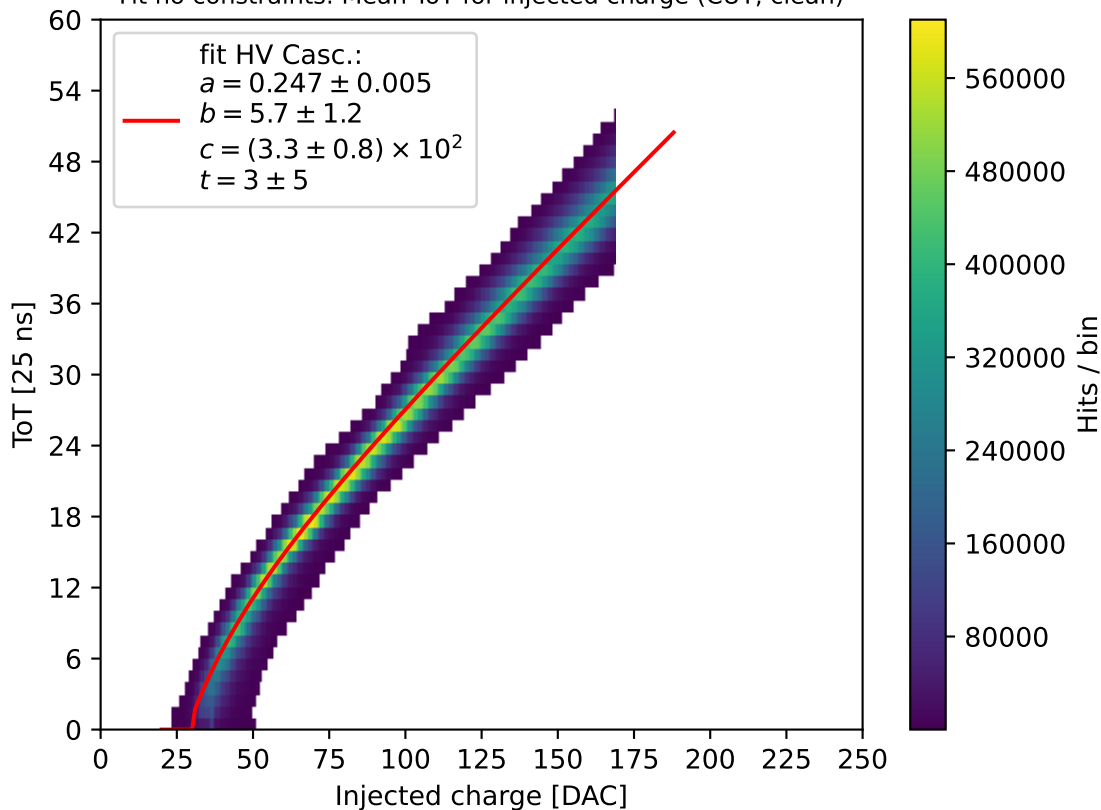
ToT curve (HV Casc.)

Fit no constraints: Mean ToT for injected charge



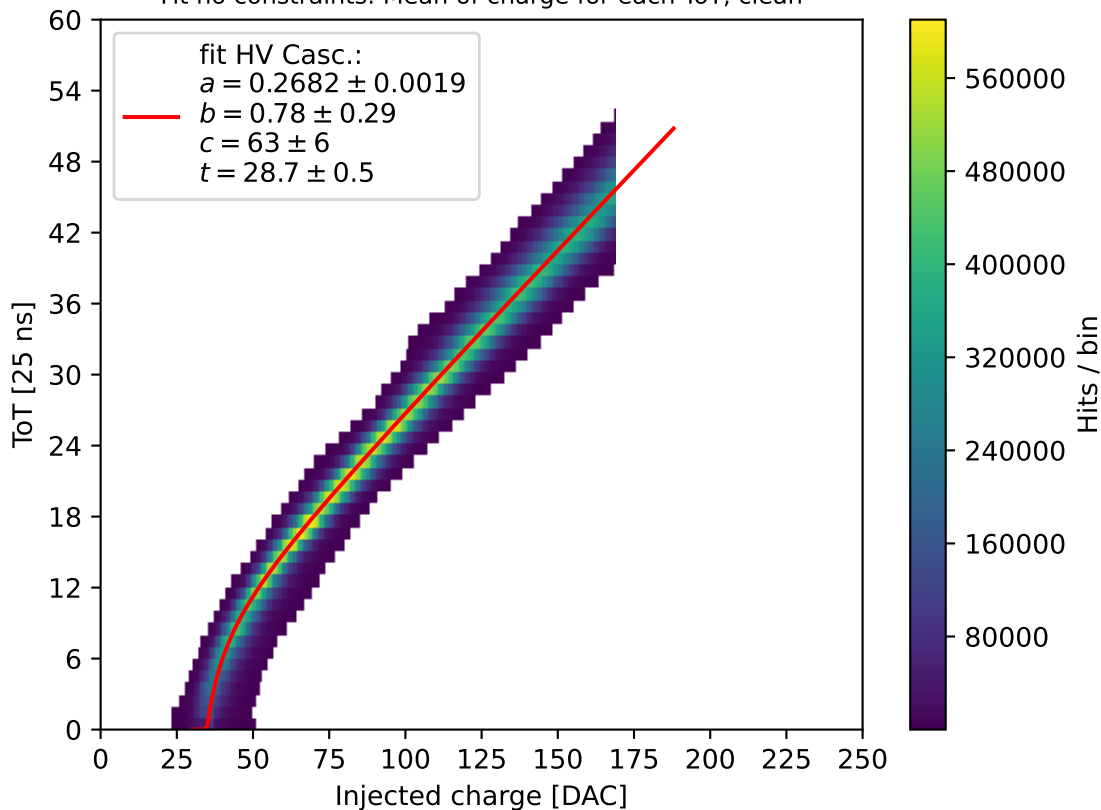
ToT curve (HV Casc.)

Fit no constraints: Mean ToT for injected charge (CUT, clean)

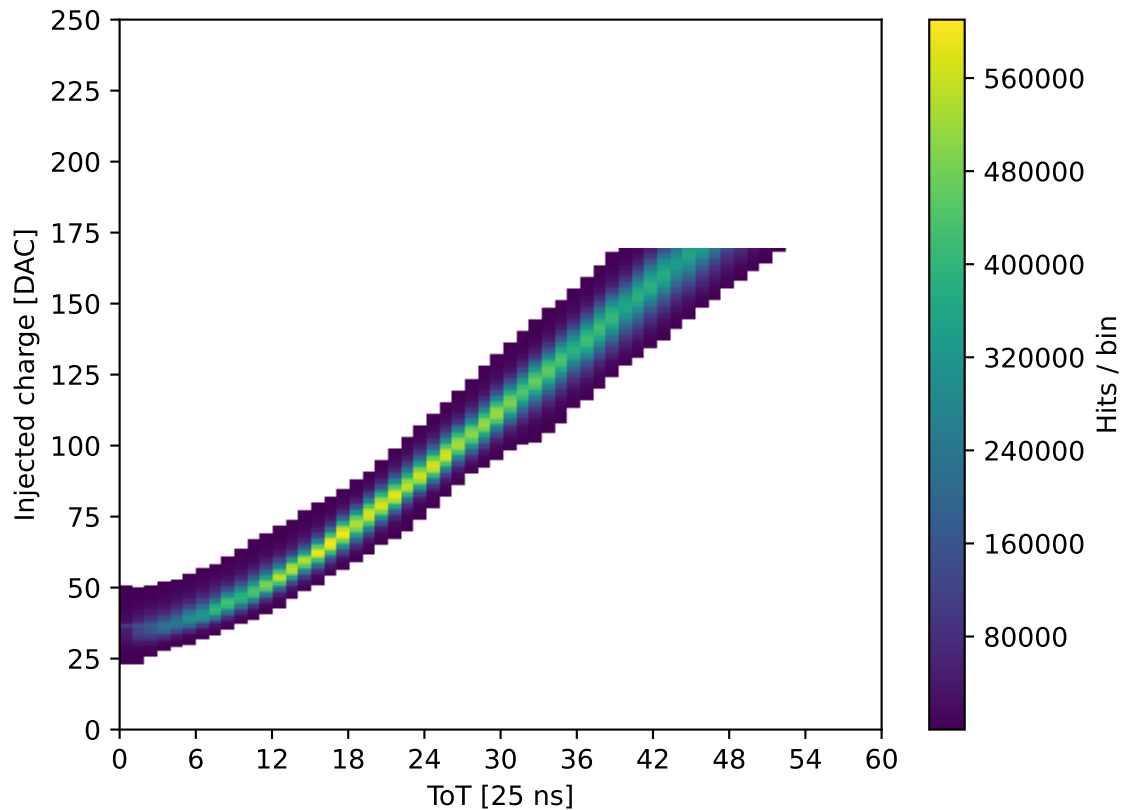


ToT curve (HV Casc.)

Fit no constraints: Mean of charge for each ToT, clean

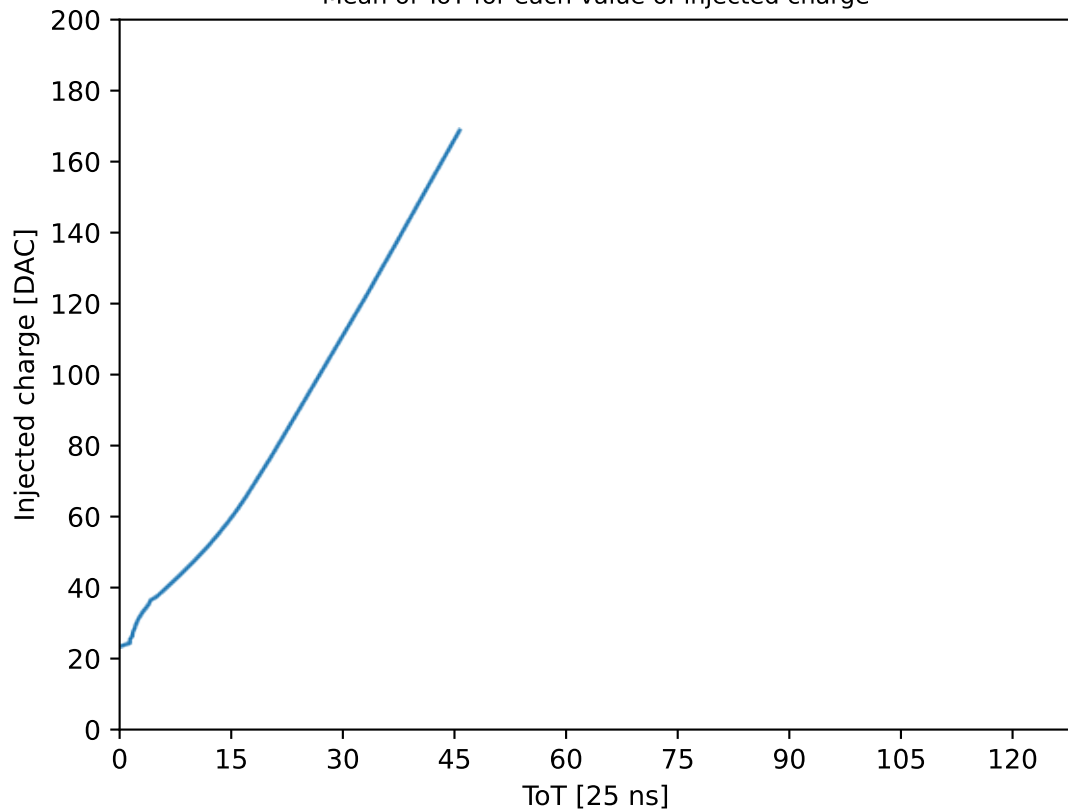


ToT curve (HV Casc.)



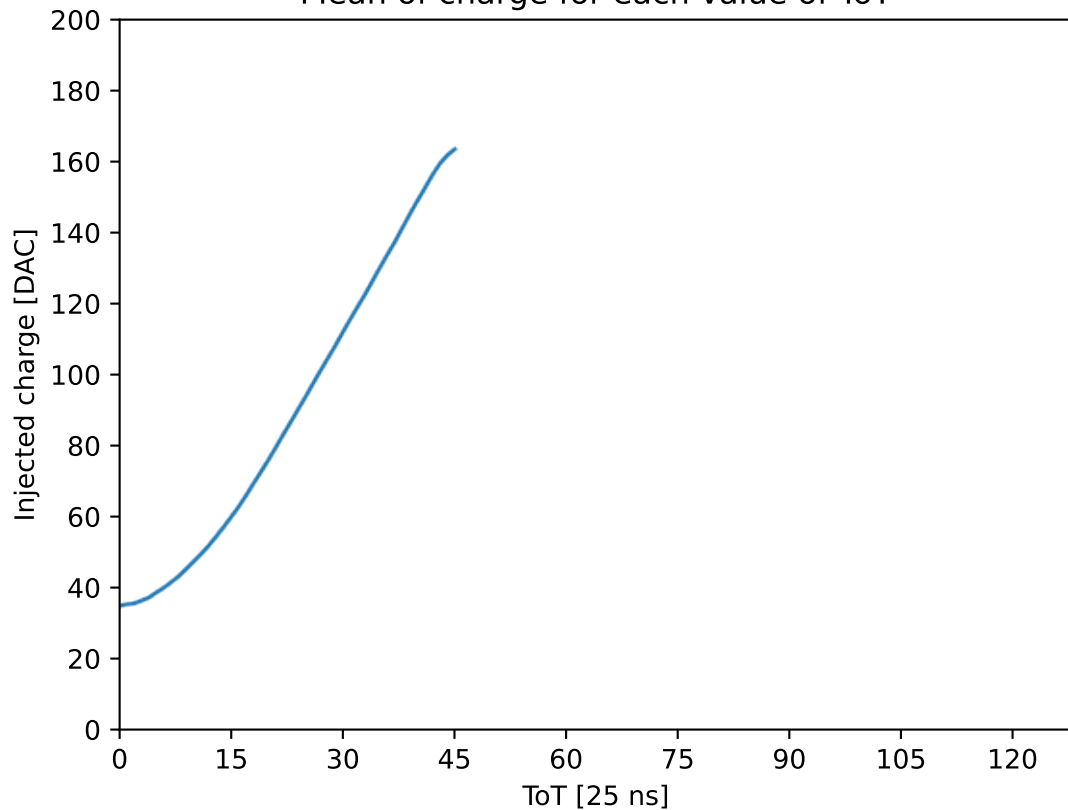
ToT curve (HV Casc.)

Mean of ToT for each value of injected charge



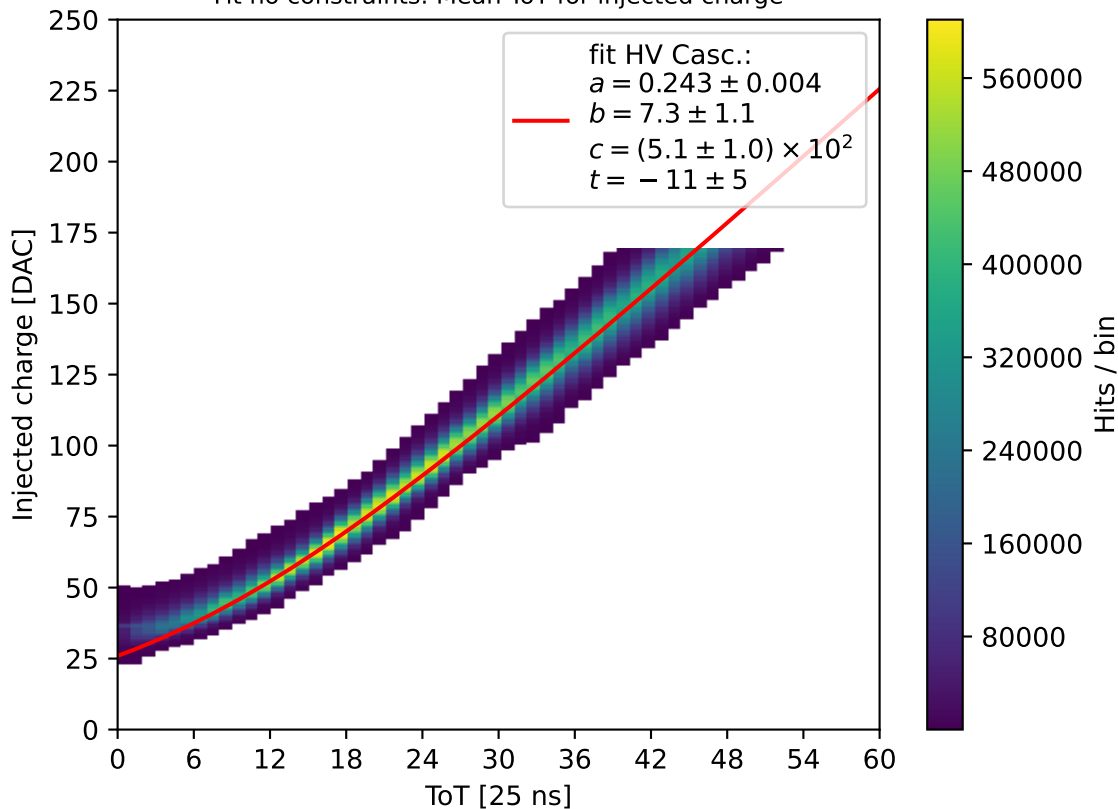
ToT curve (HV Casc.)

Mean of charge for each value of ToT



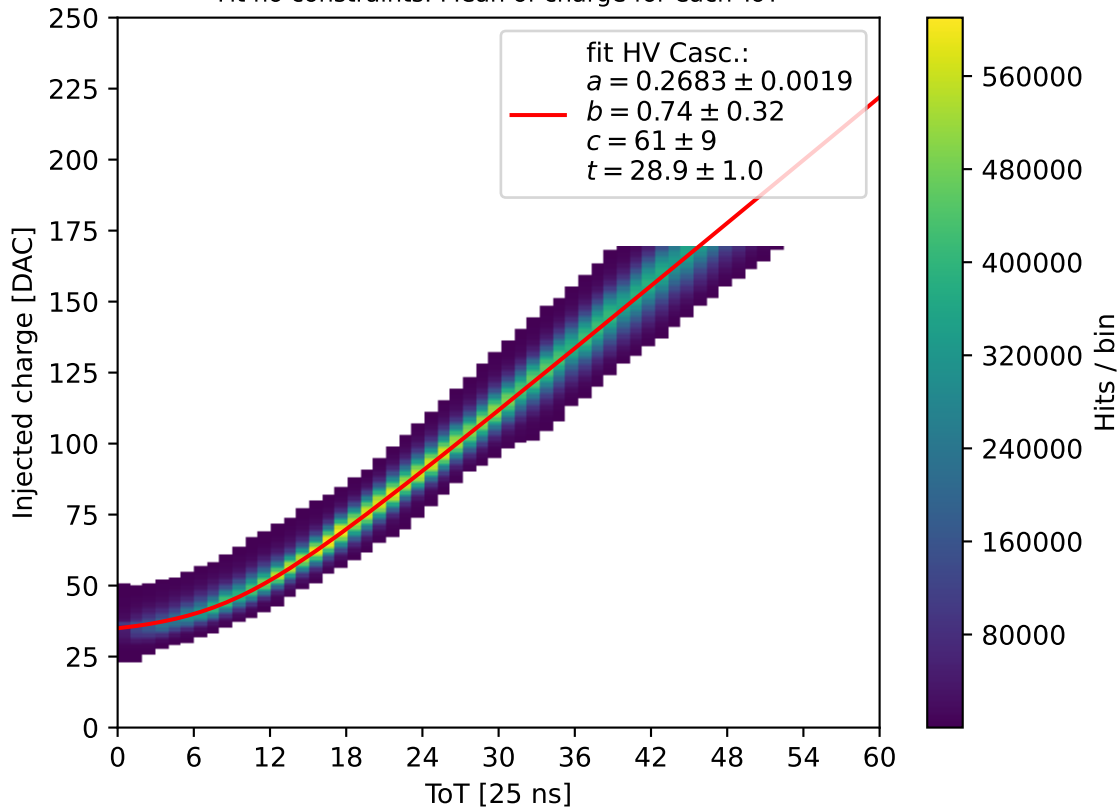
ToT curve (HV Casc.)

Fit no constraints: Mean ToT for injected charge



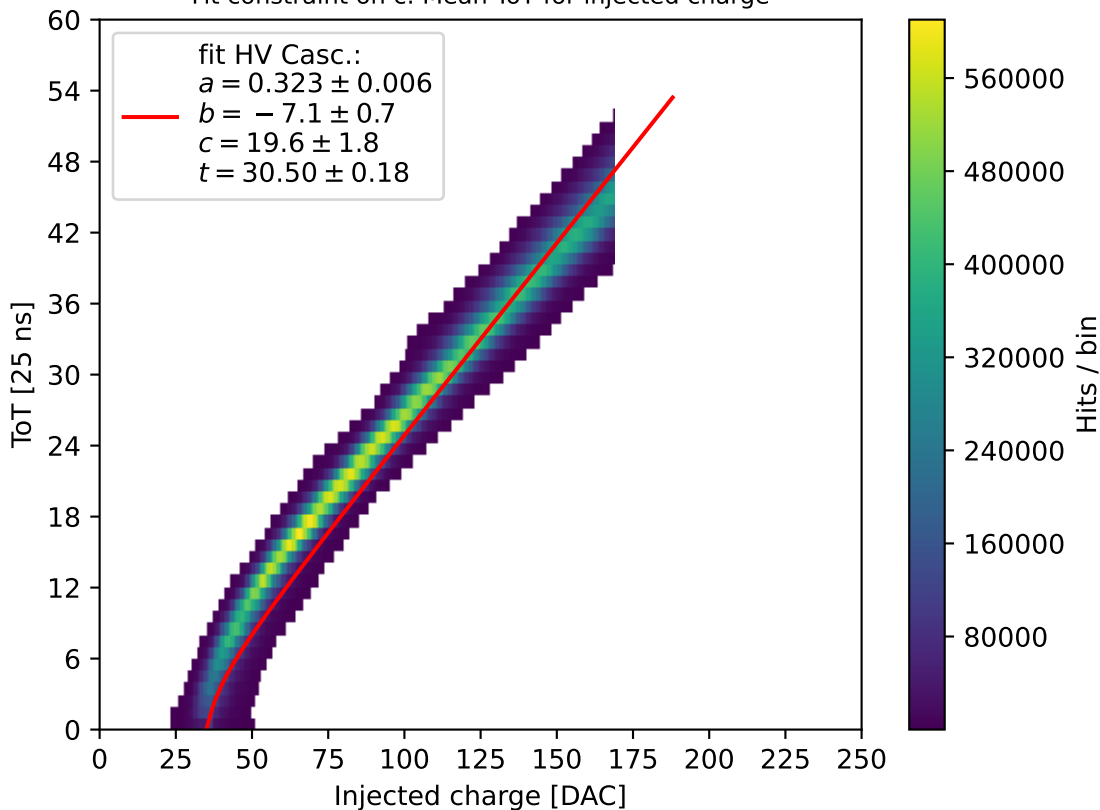
ToT curve (HV Casc.)

Fit no constraints: Mean of charge for each ToT



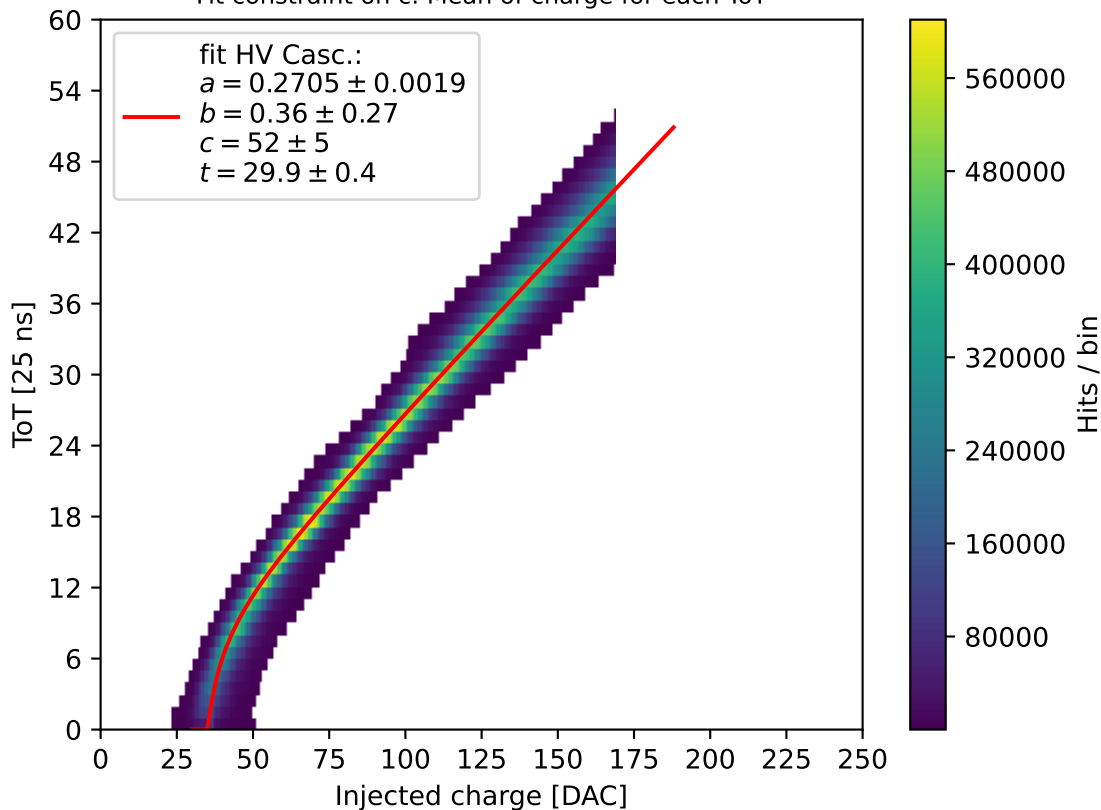
ToT curve fit (HV Casc.)

Fit constraint on c: Mean ToT for injected charge



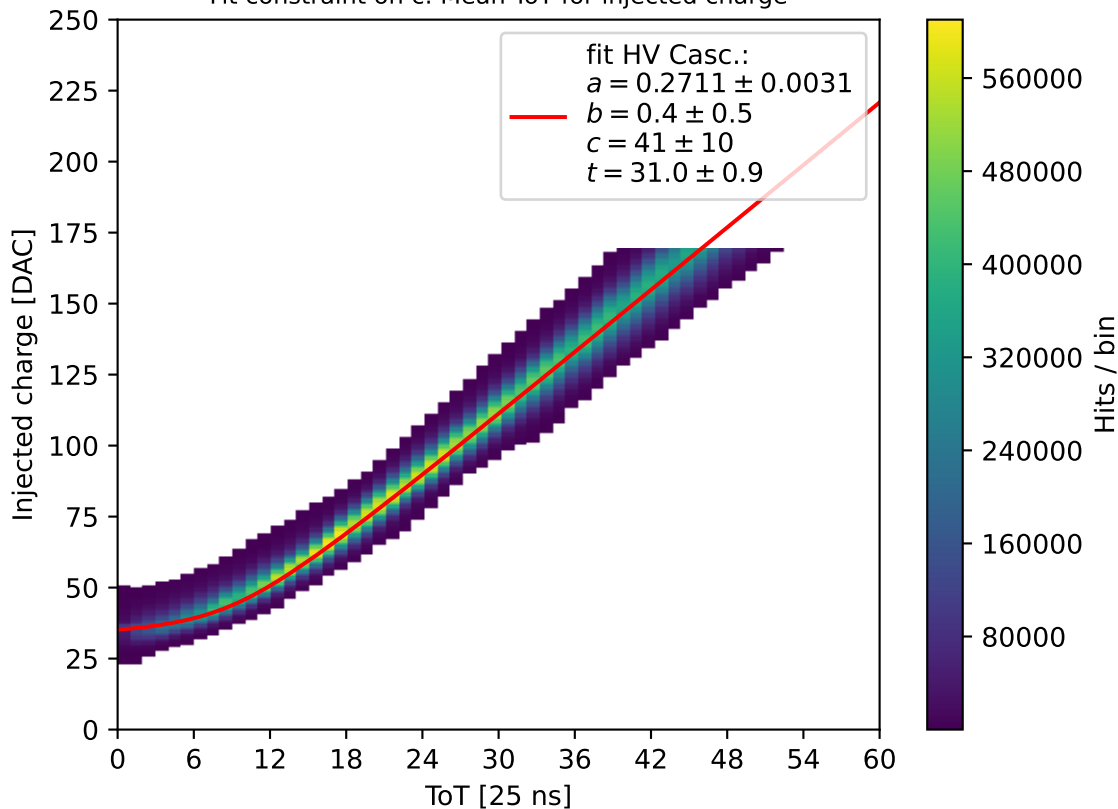
ToT curve fit (HV Casc.)

Fit constraint on c: Mean of charge for each ToT



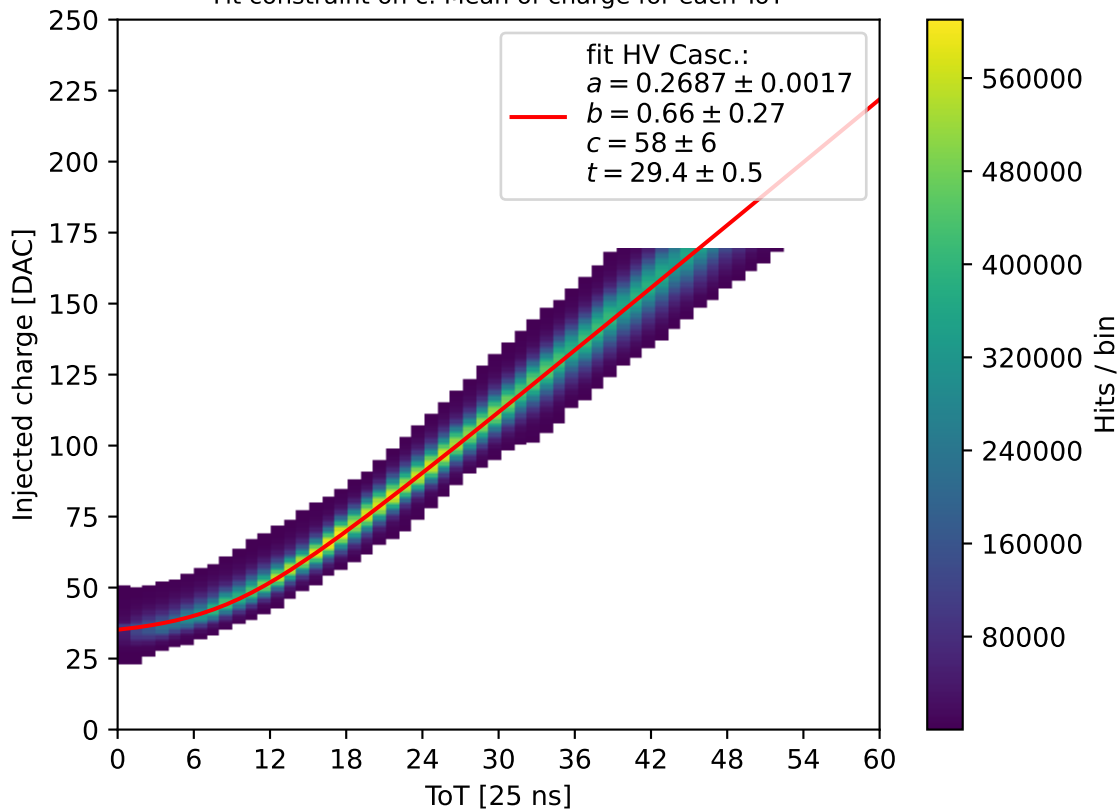
ToT curve (HV Casc.)

Fit constraint on c: Mean ToT for injected charge

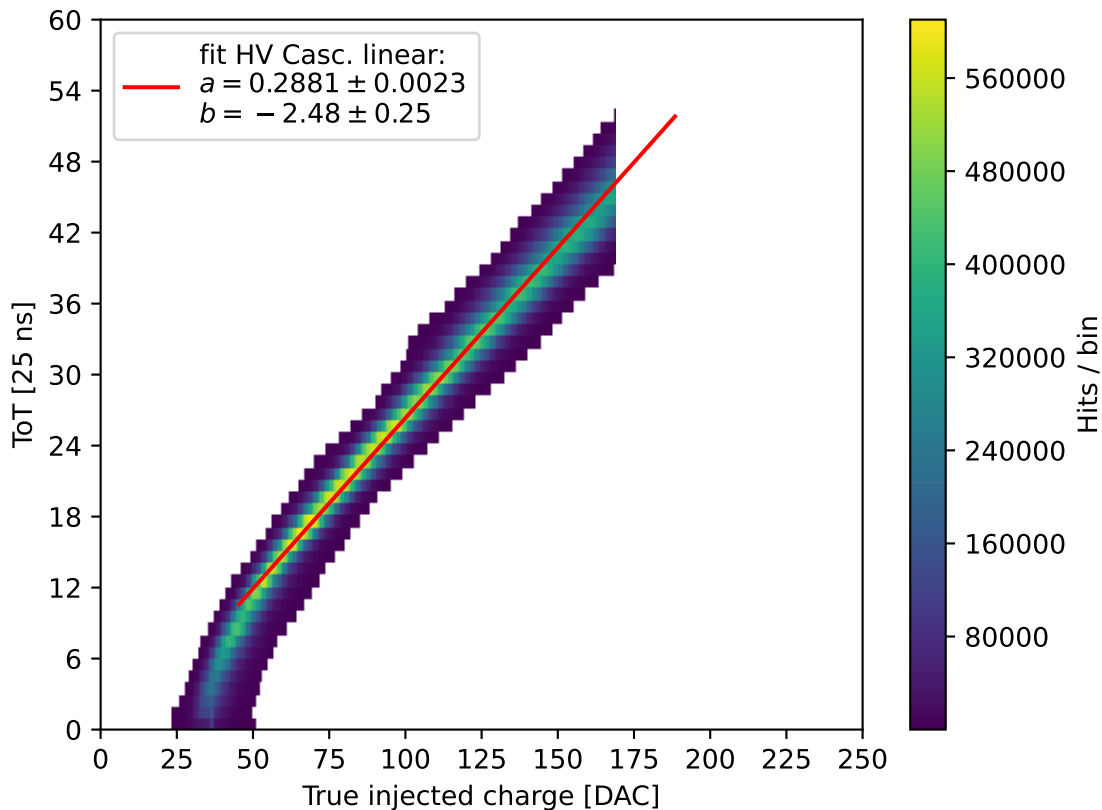


ToT curve (HV Casc.)

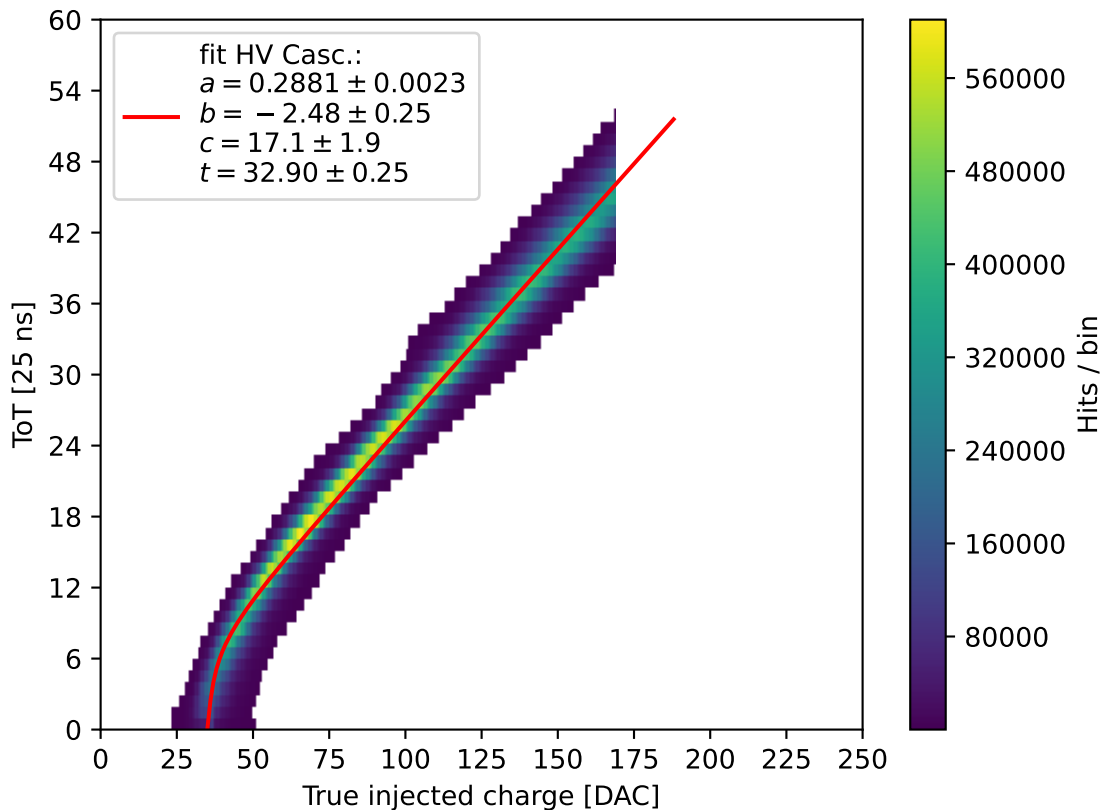
Fit constraint on c: Mean of charge for each ToT



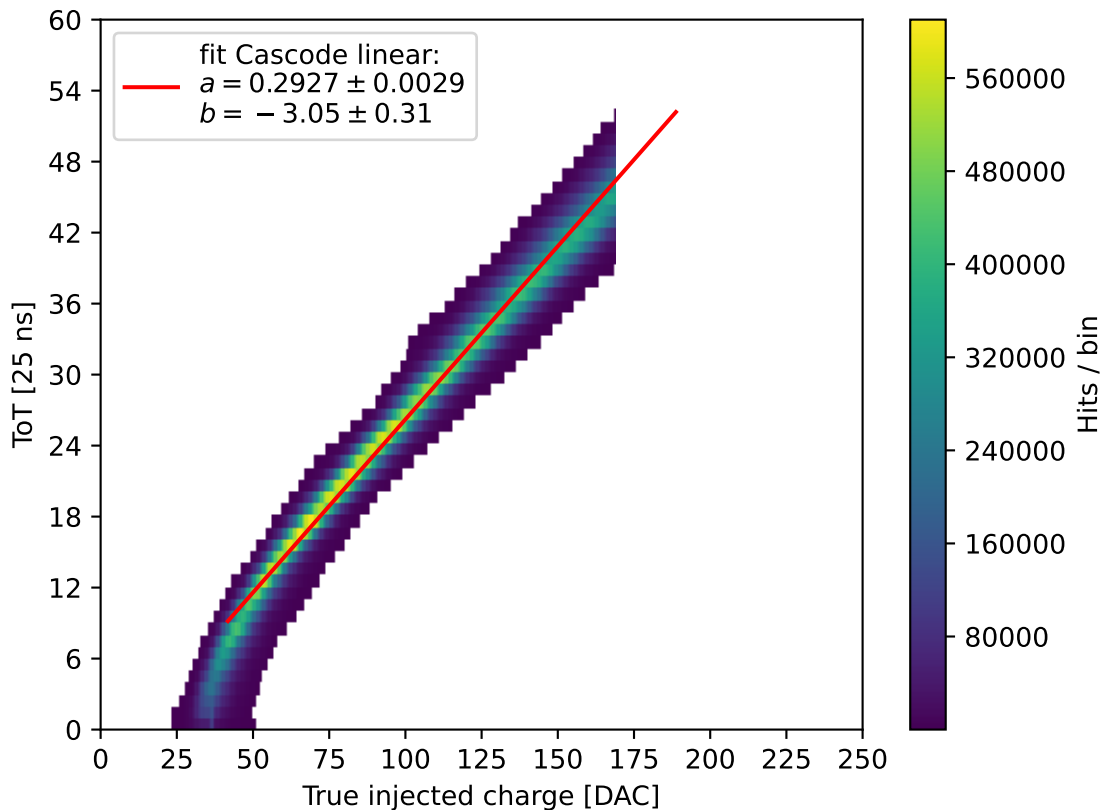
ToT curve (HV Casc.)[lin]



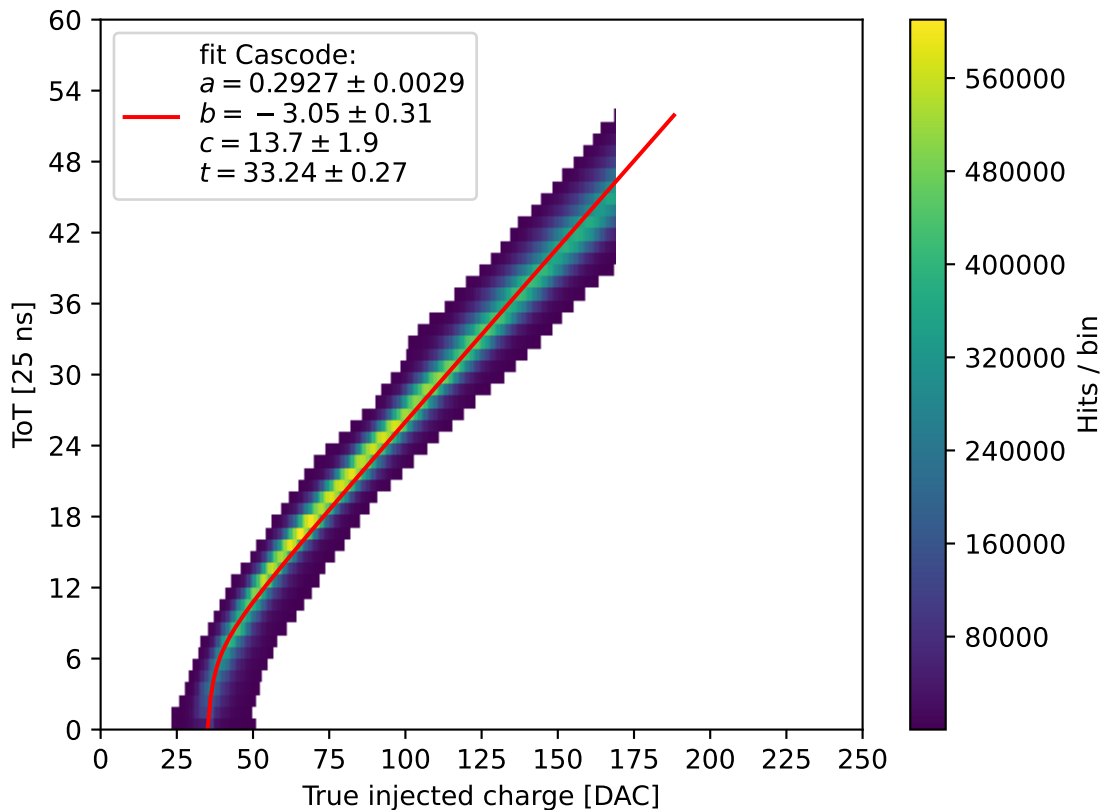
ToT curve (HV Casc.) ALL



ToT curve (Cascode)[lin]

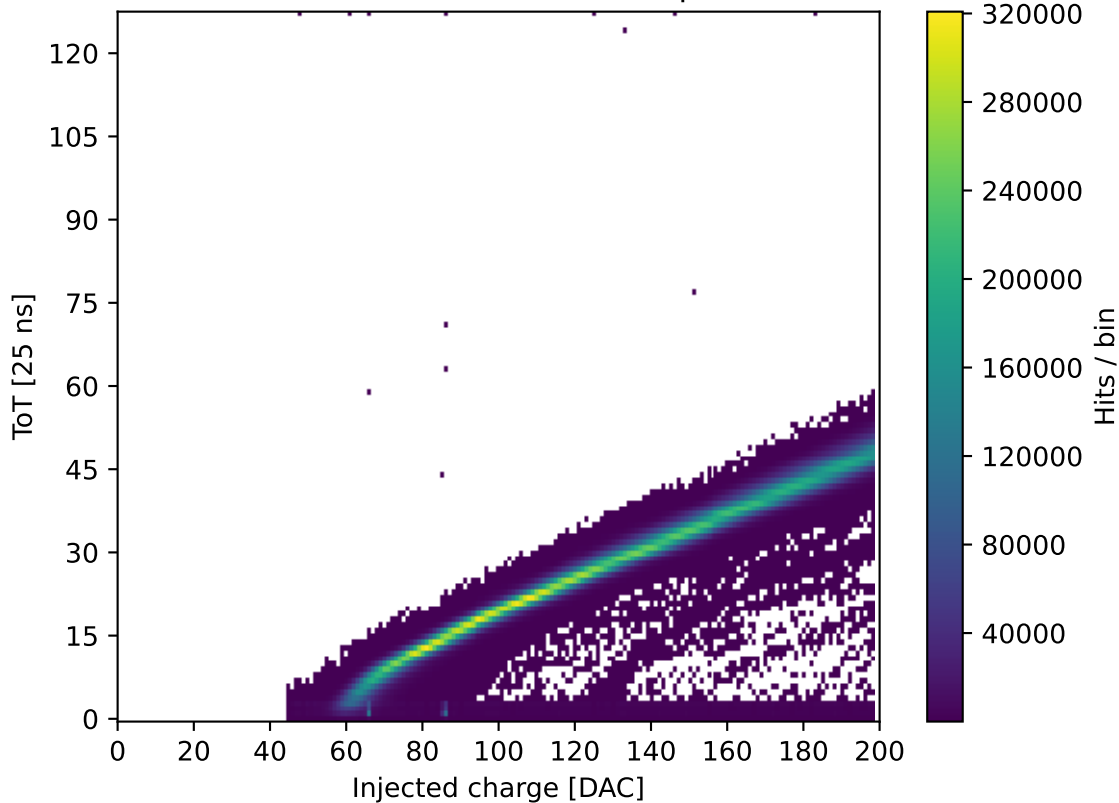


ToT curve (Cascode) ALL

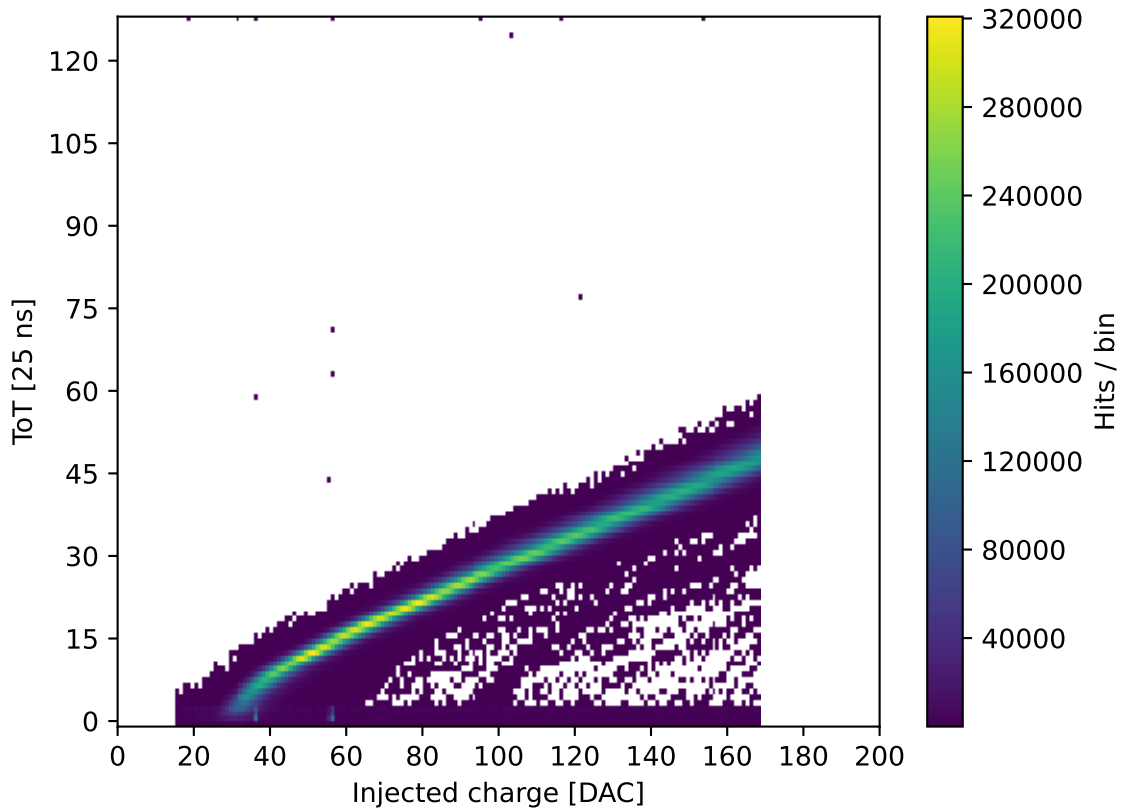


ToT curve (HV)

VH = 200, VL = 160..1 (step -1)

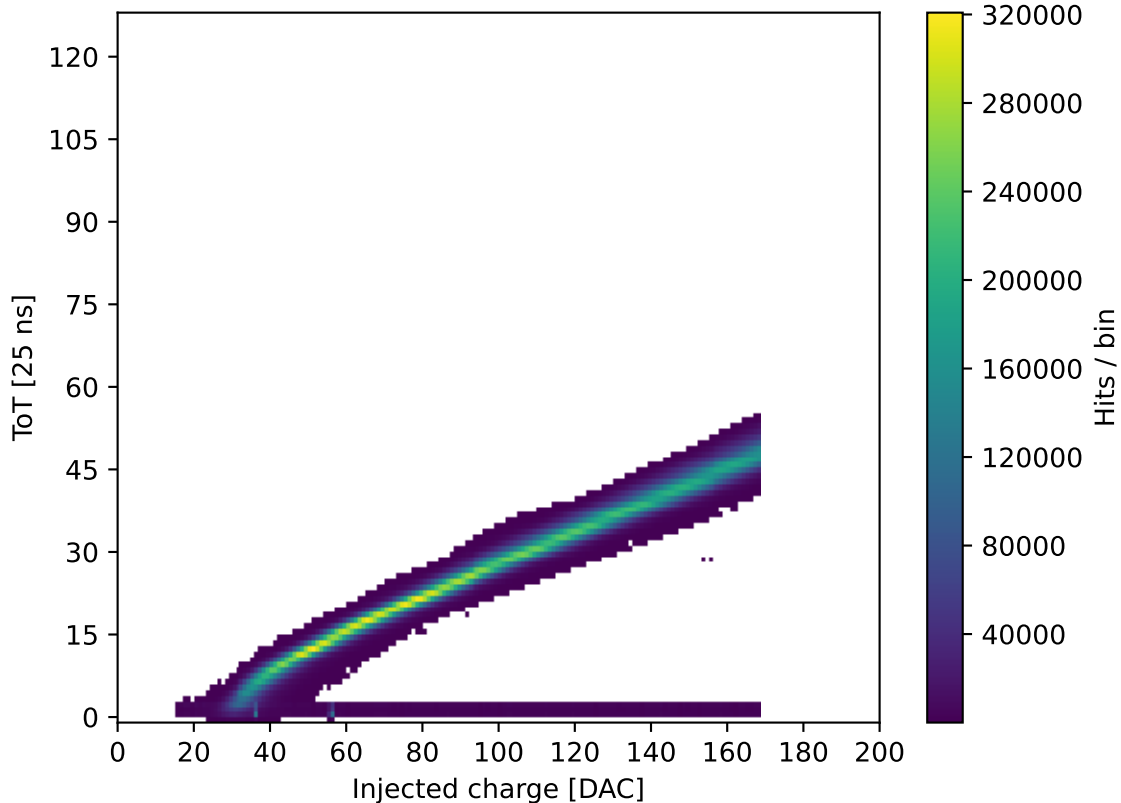


ToT curve (HV)



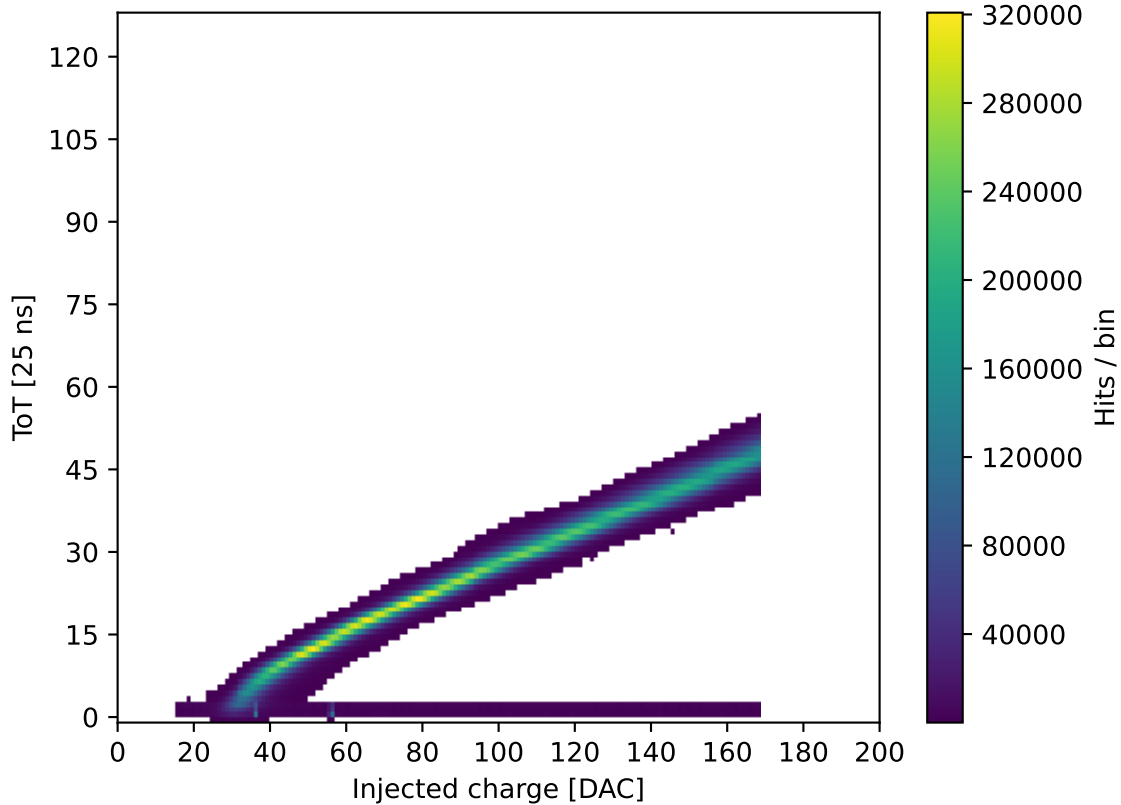
ToT curve (HV)

Hits/bin > 100



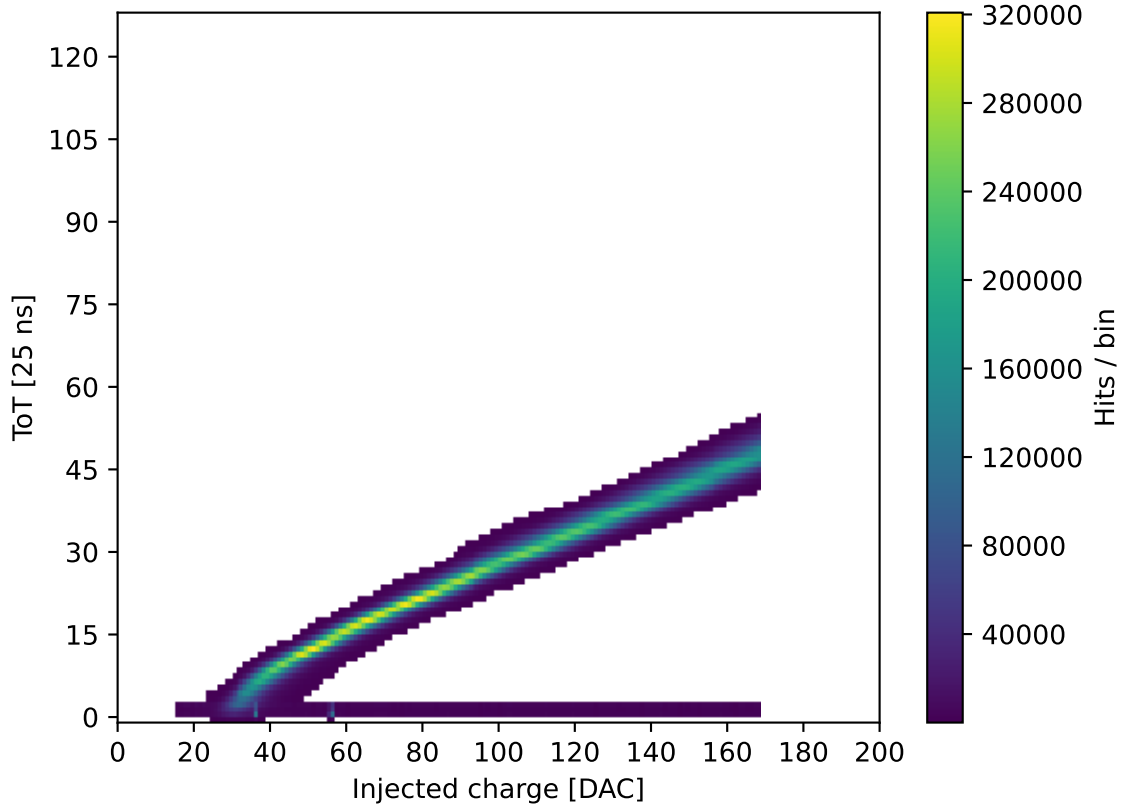
ToT curve (HV)

Hits/bin > 200



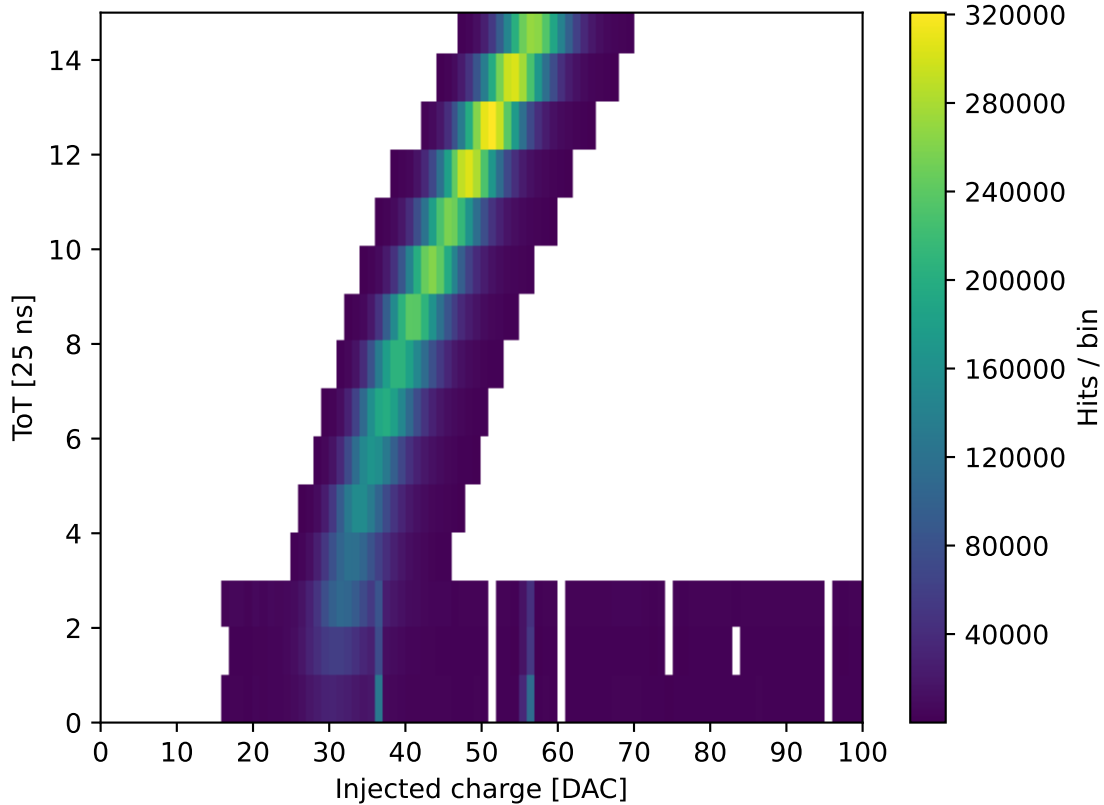
ToT curve (HV)

Hits/bin > 300



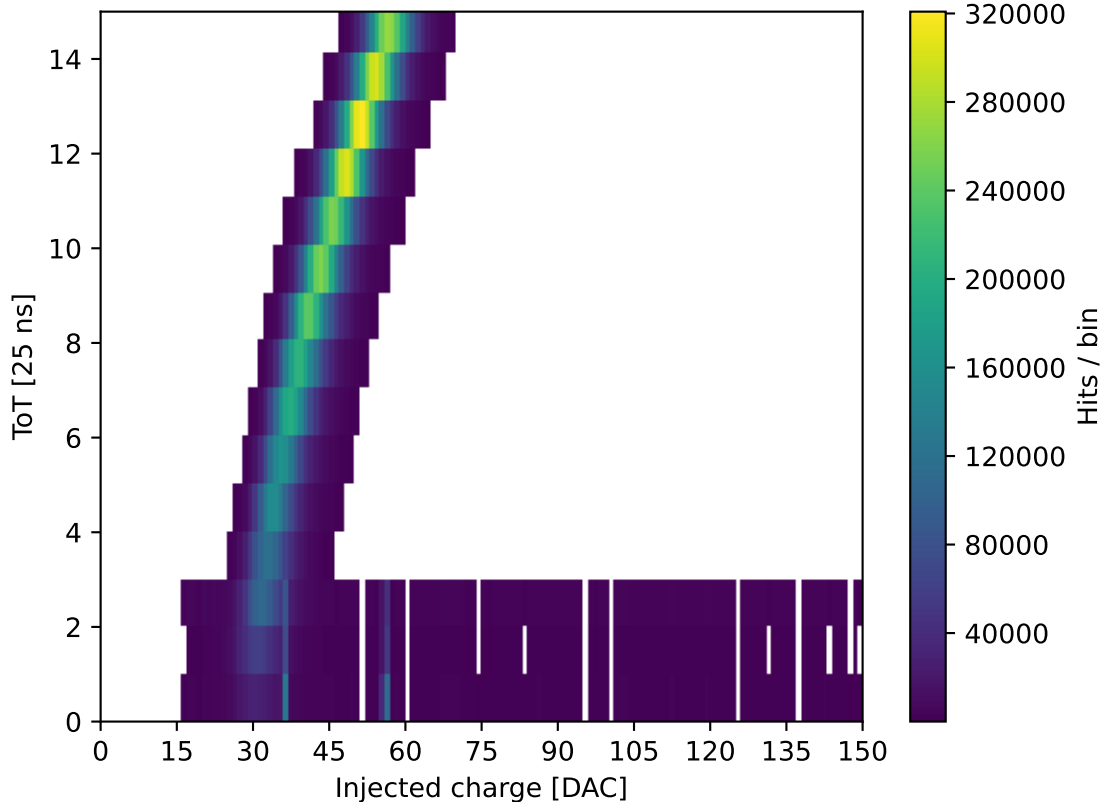
ToT curve (HV)

Hits/bin > 1000



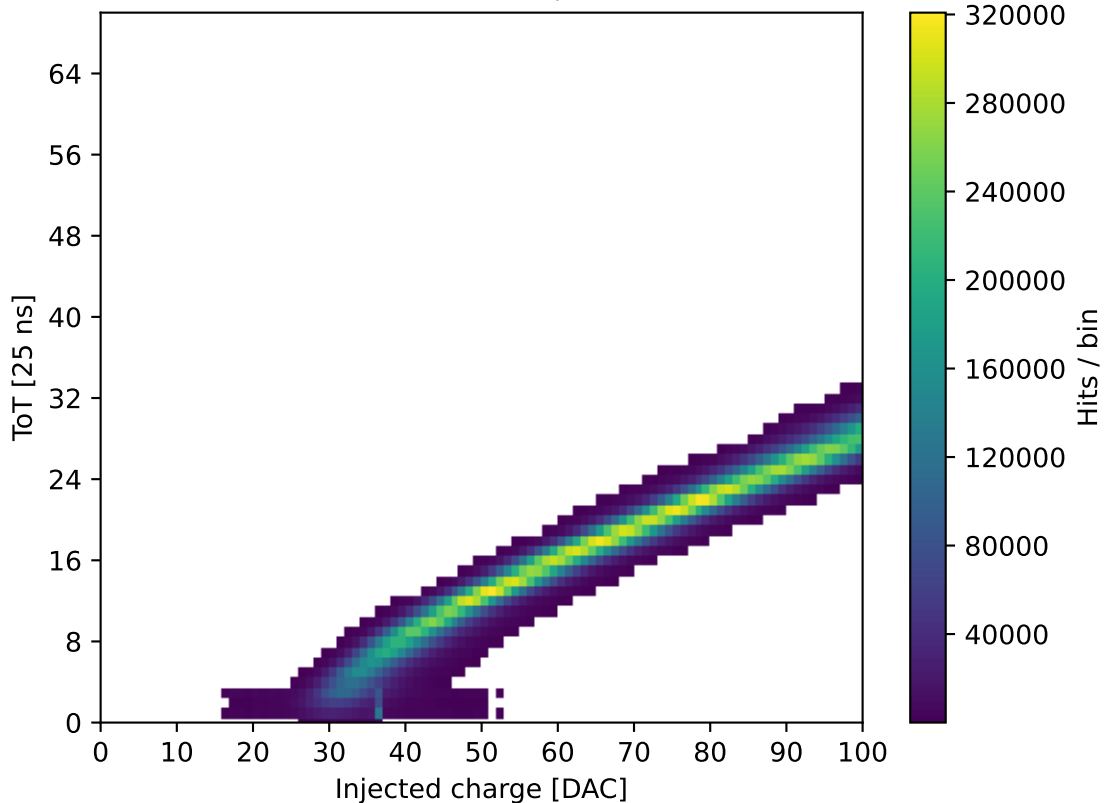
ToT curve (HV)

Hits/bin > 1000



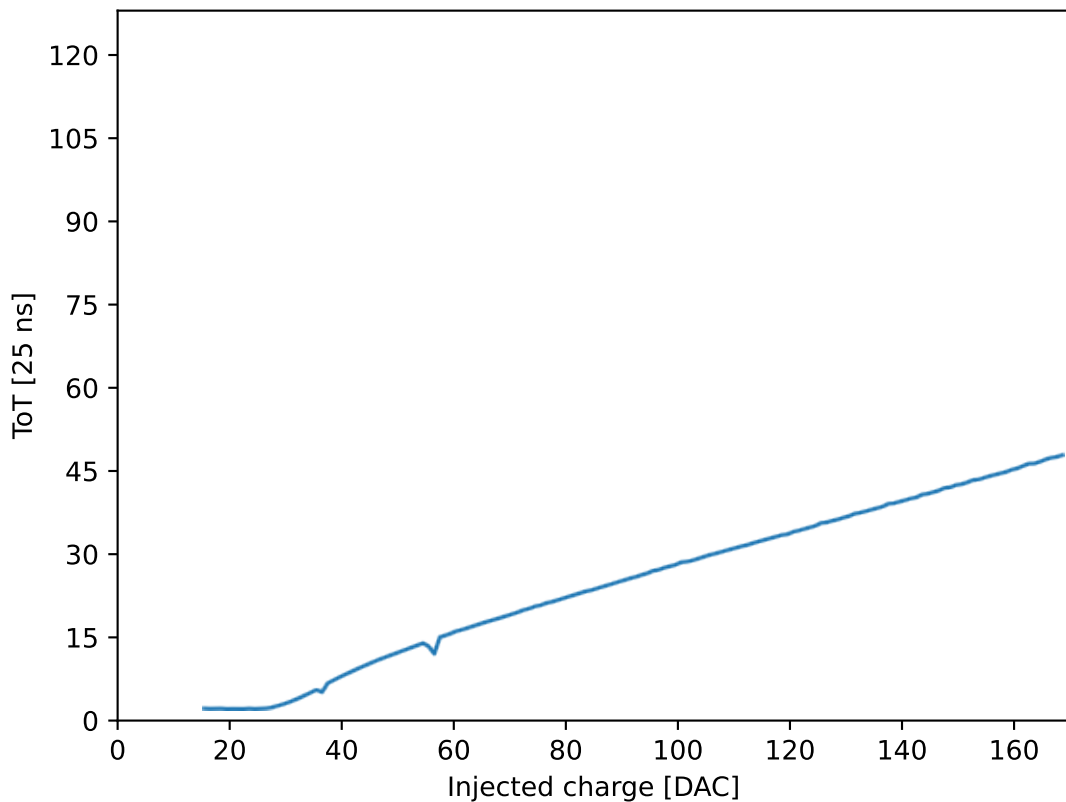
ToT curve (HV)

Hits/bin > 1000, clean



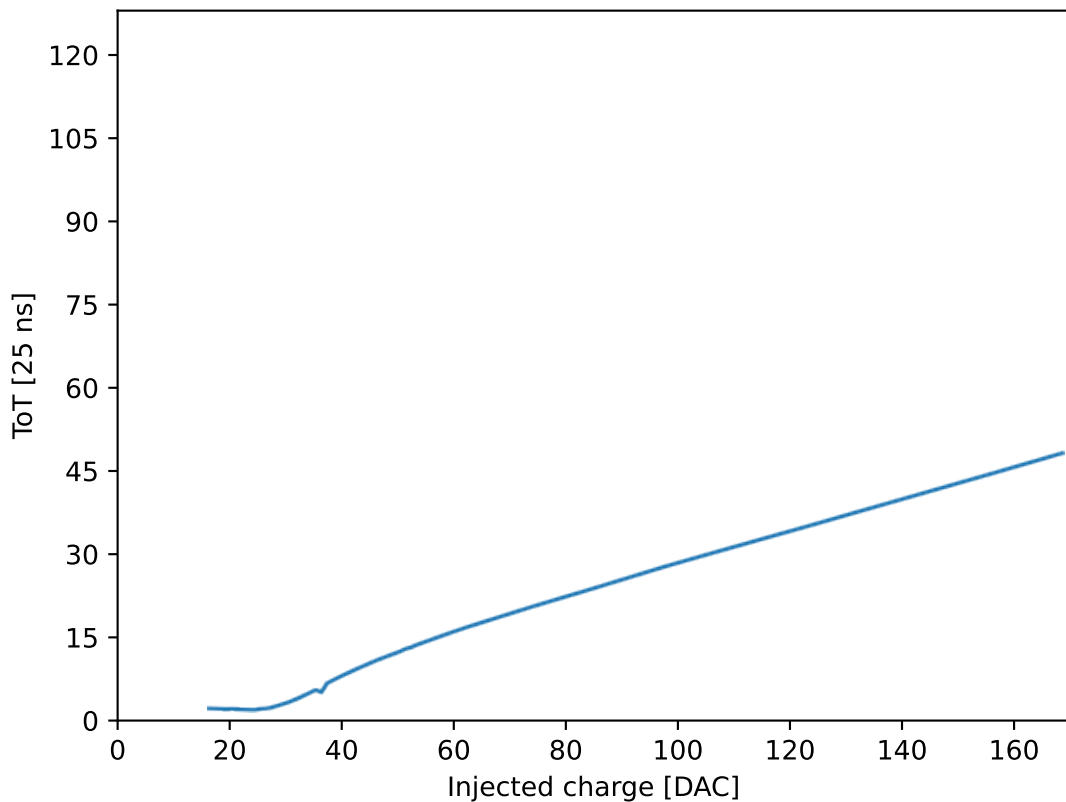
ToT curve (HV)

Mean of ToT for each value of injected charge

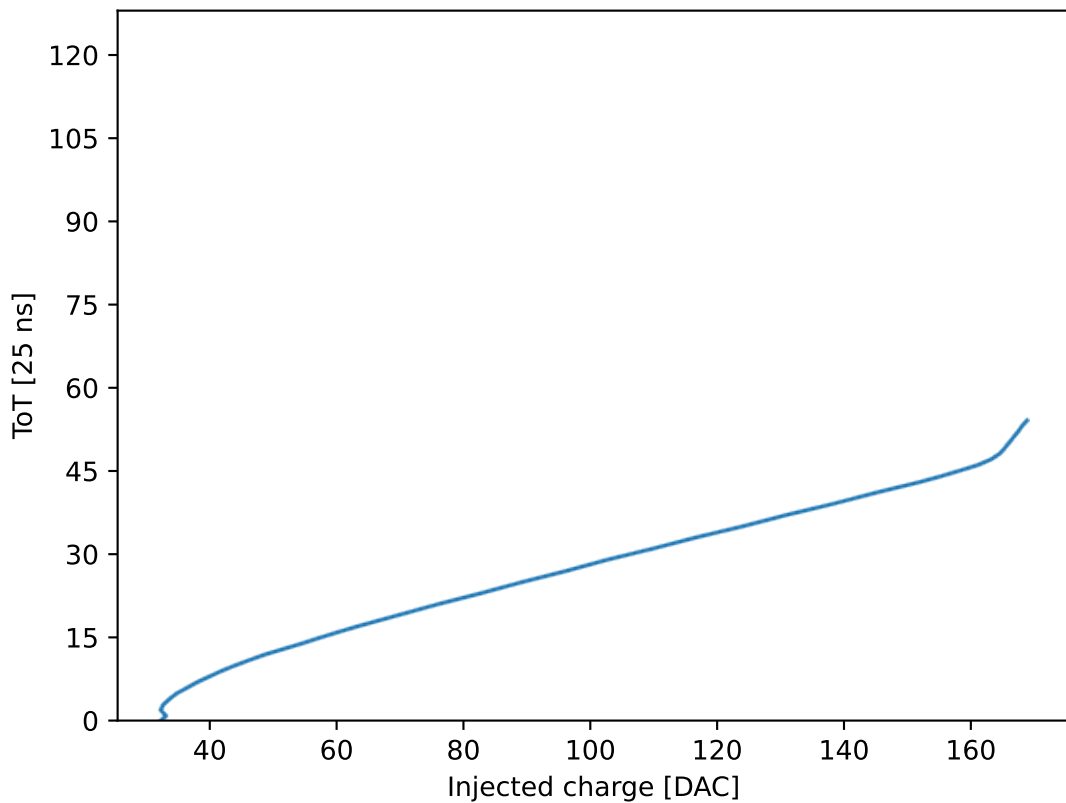


ToT curve (HV)

Mean of ToT for each value of injected charge (hits/bin>1000, clean)

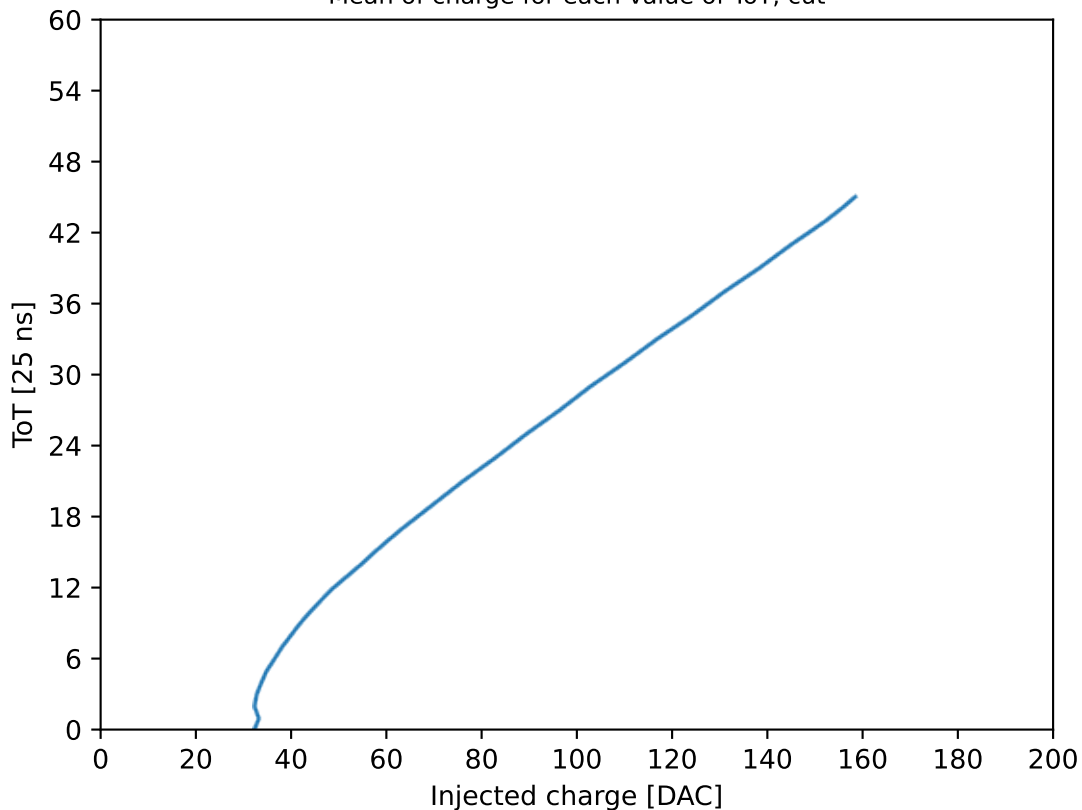


ToT curve mean on charge (HV)



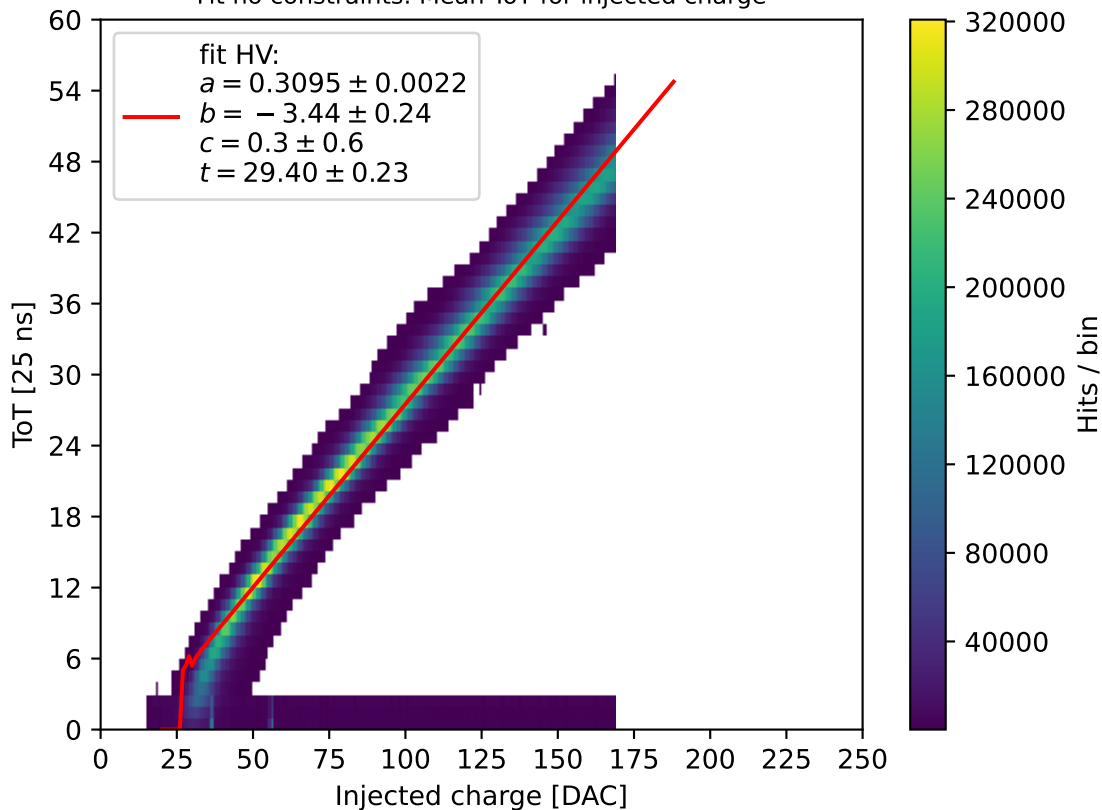
ToT curve mean on charge (HV)

Mean of charge for each value of ToT, cut



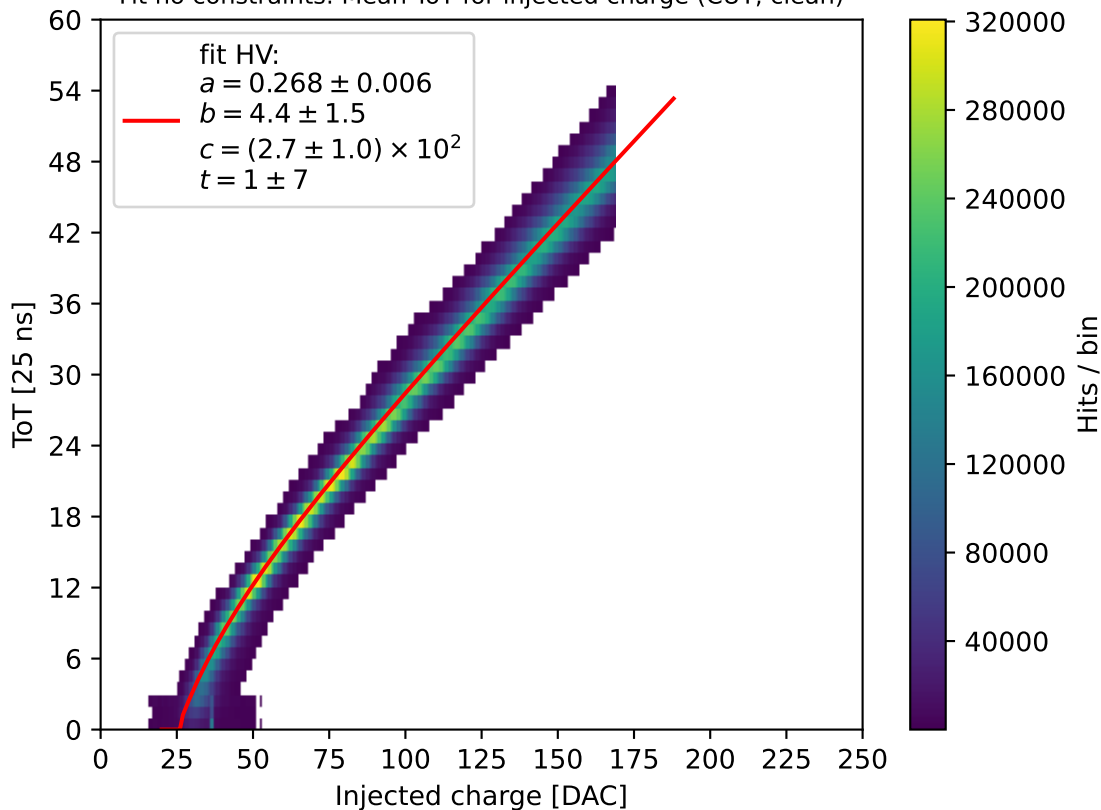
ToT curve (HV)

Fit no constraints: Mean ToT for injected charge



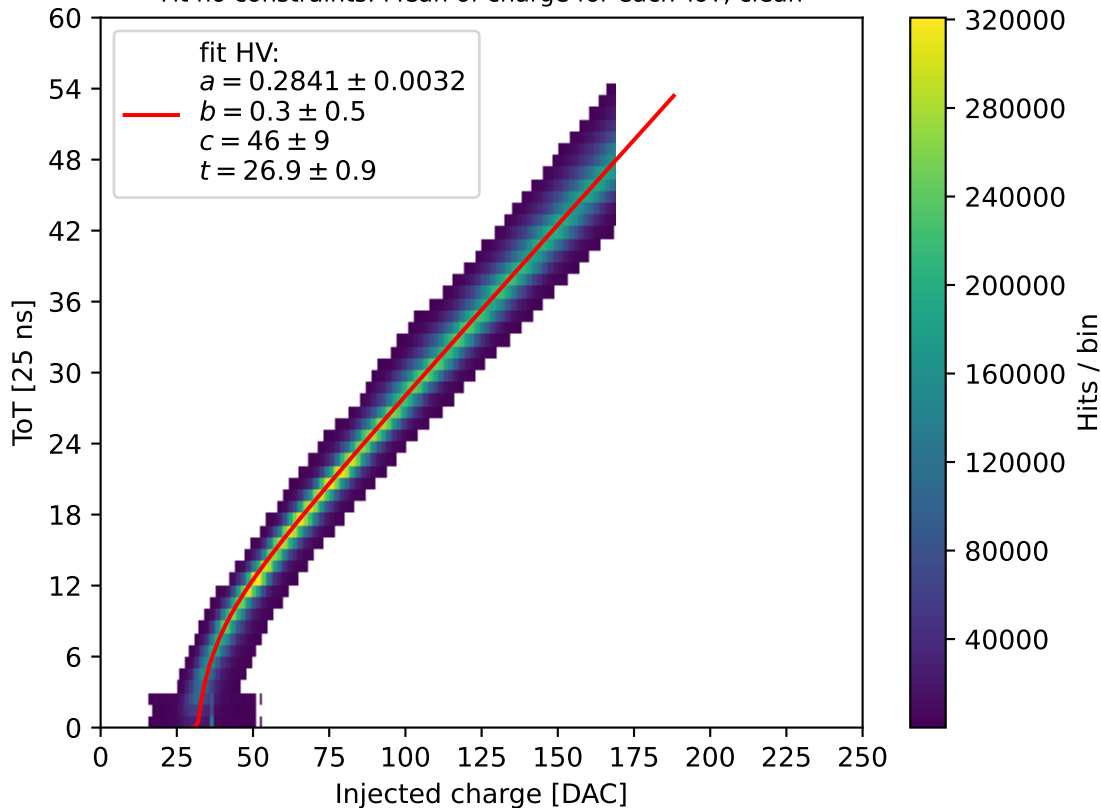
ToT curve (HV)

Fit no constraints: Mean ToT for injected charge (CUT, clean)

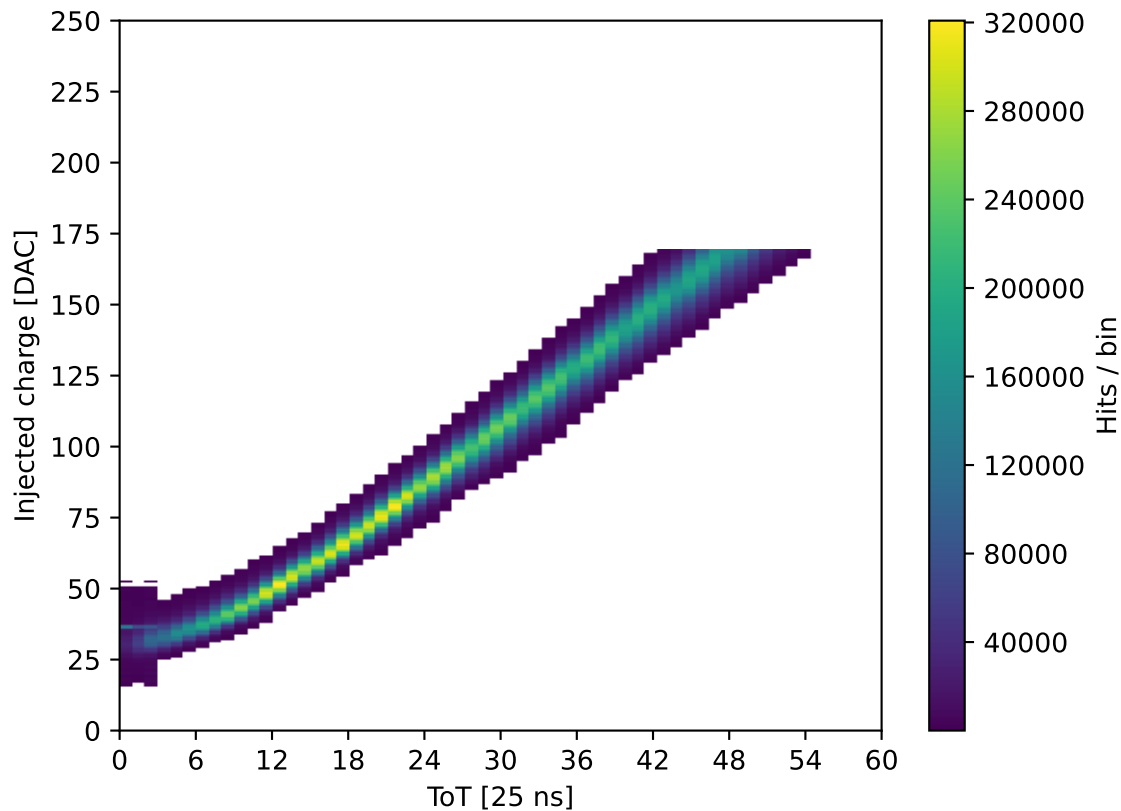


ToT curve (HV)

Fit no constraints: Mean of charge for each ToT, clean

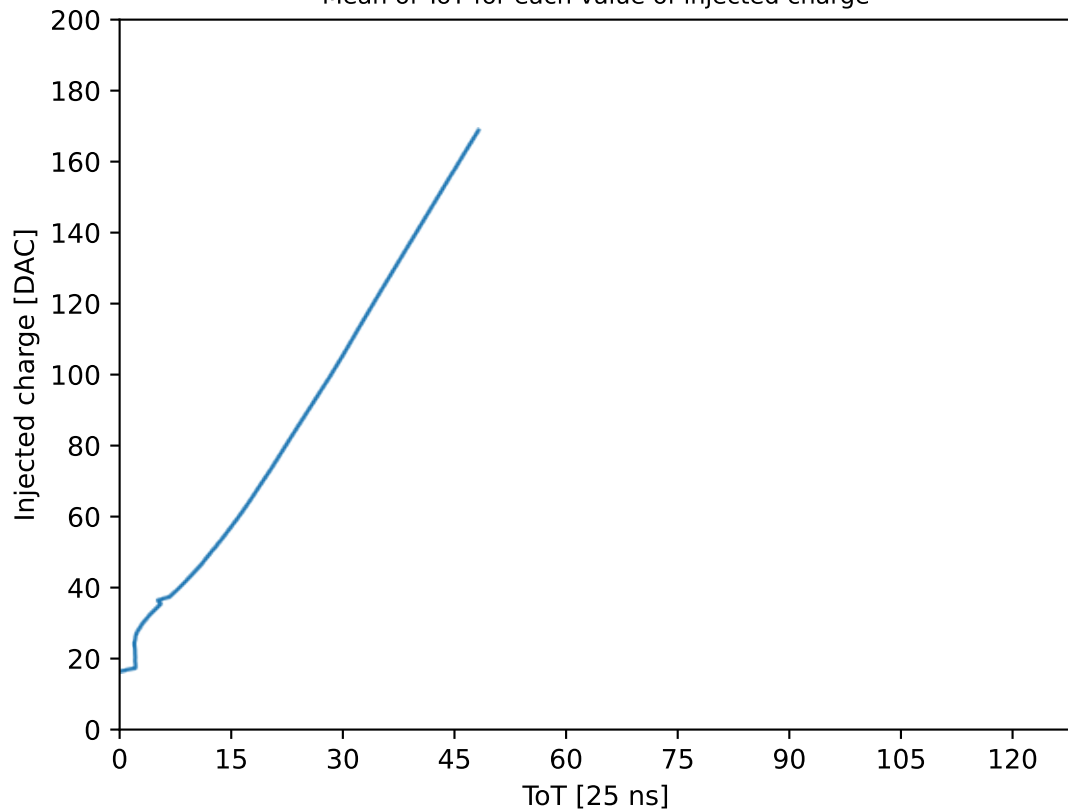


ToT curve (HV)



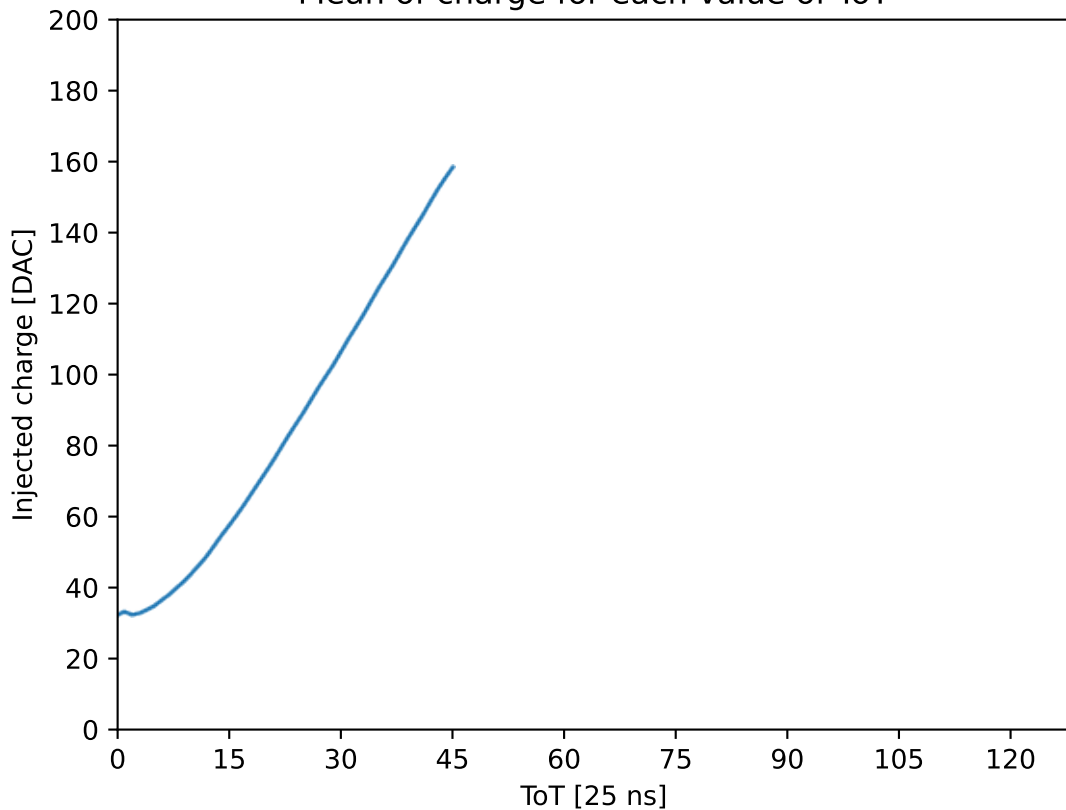
ToT curve (HV)

Mean of ToT for each value of injected charge



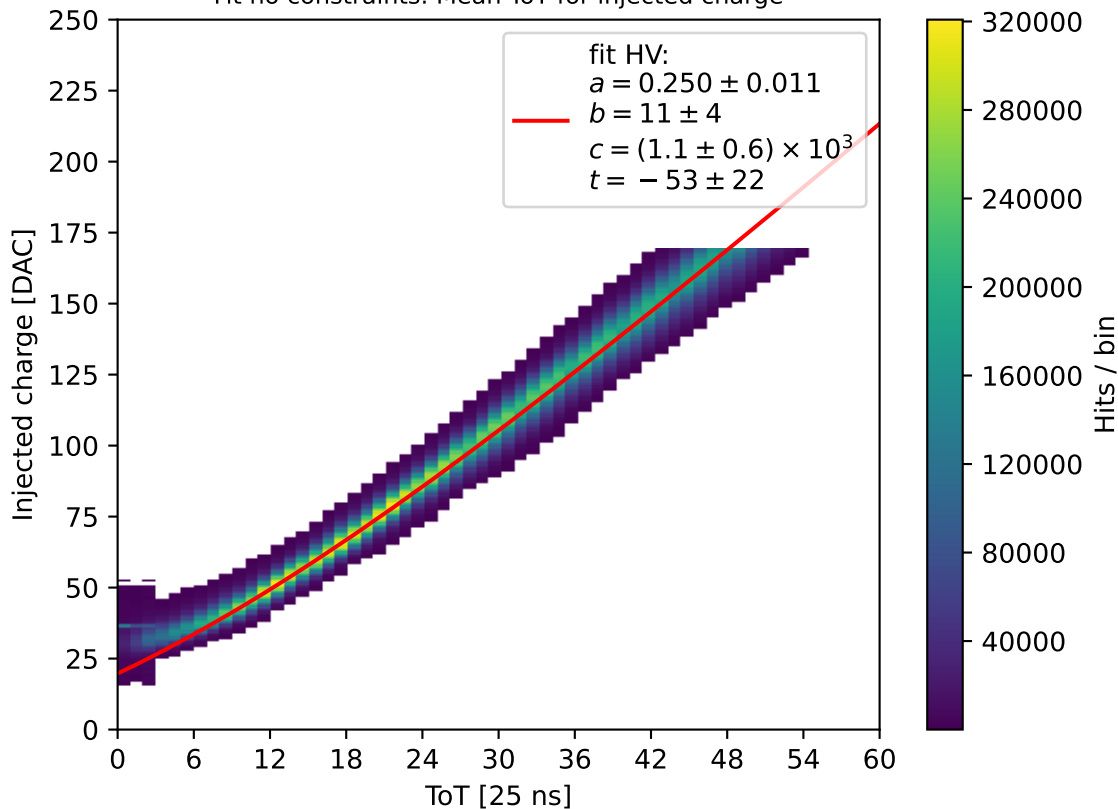
ToT curve (HV)

Mean of charge for each value of ToT



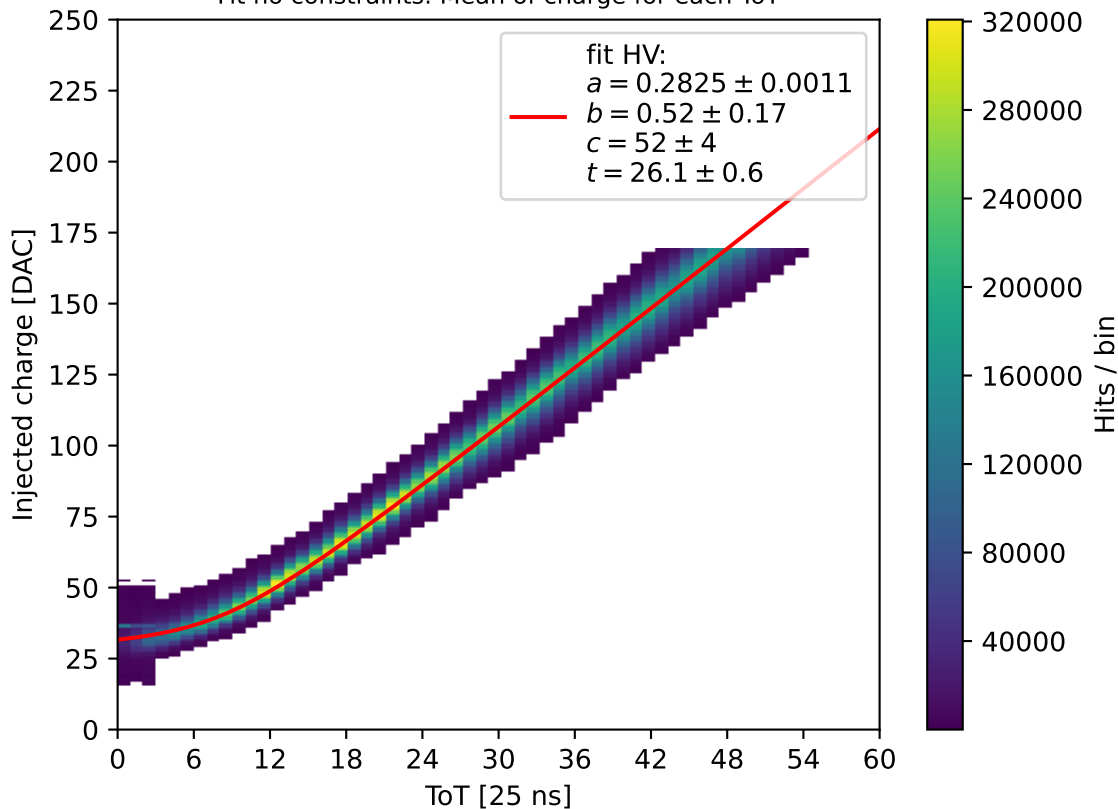
ToT curve (HV)

Fit no constraints: Mean ToT for injected charge



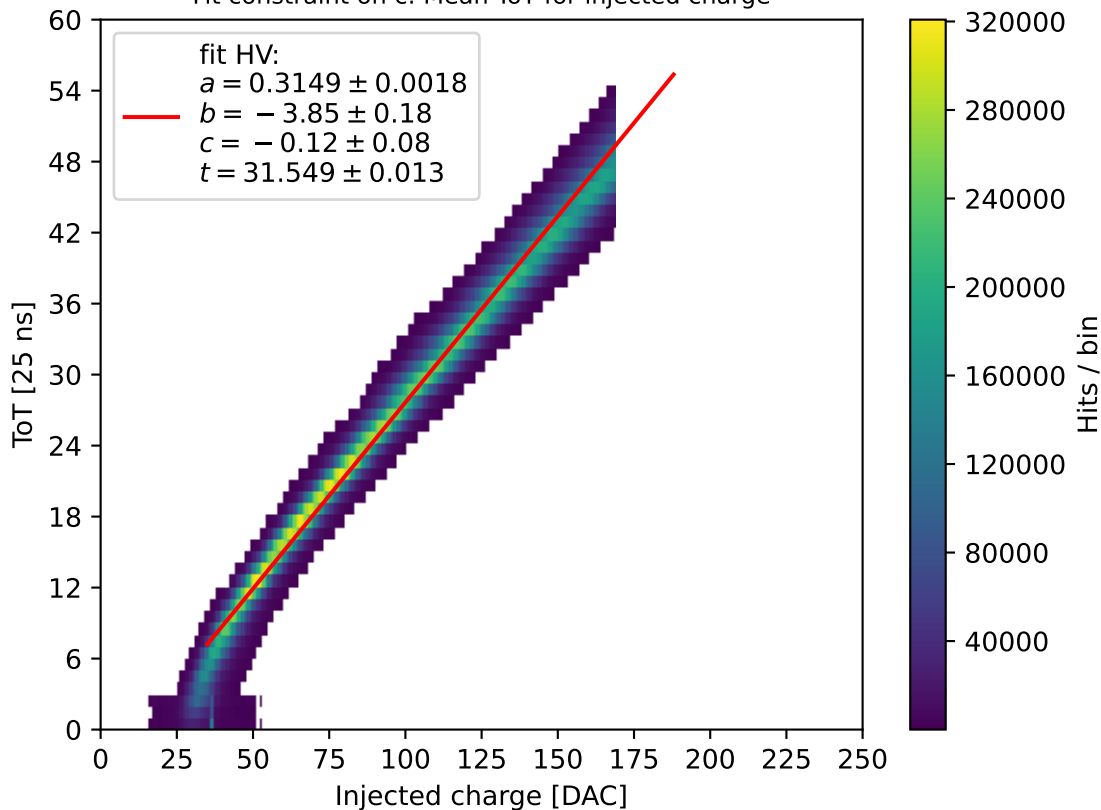
ToT curve (HV)

Fit no constraints: Mean of charge for each ToT



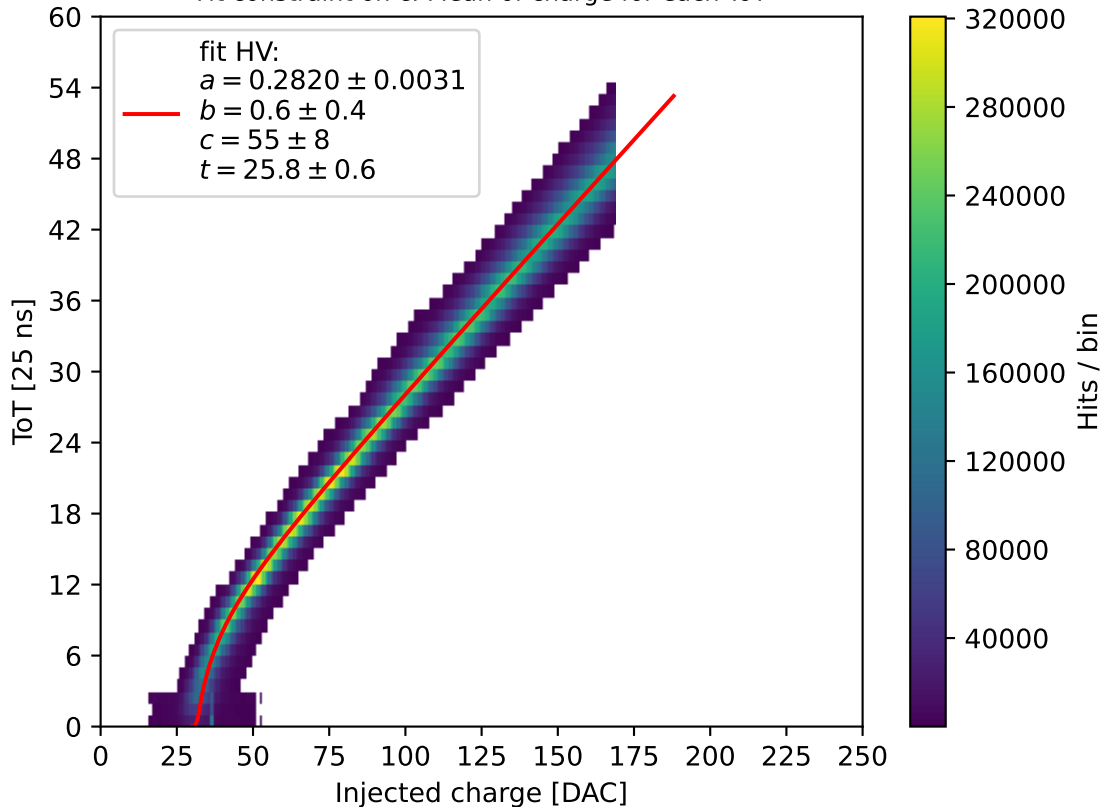
ToT curve fit (HV)

Fit constraint on c: Mean ToT for injected charge



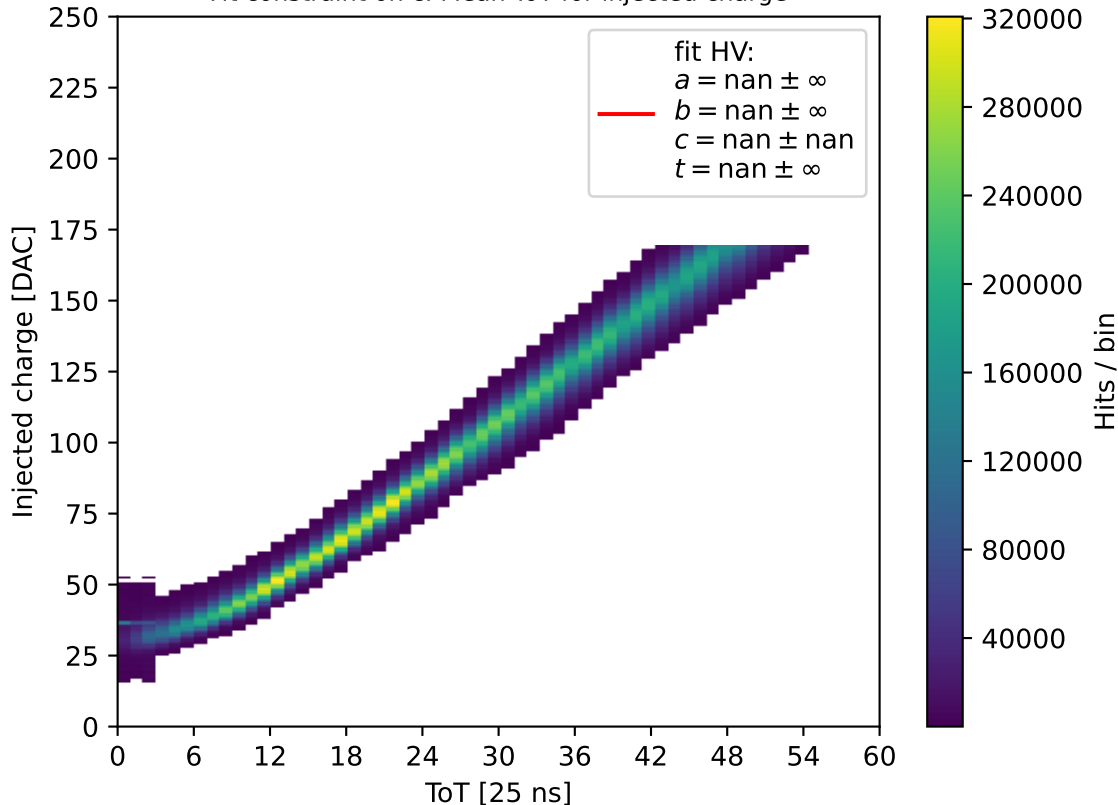
ToT curve fit (HV)

Fit constraint on c: Mean of charge for each ToT



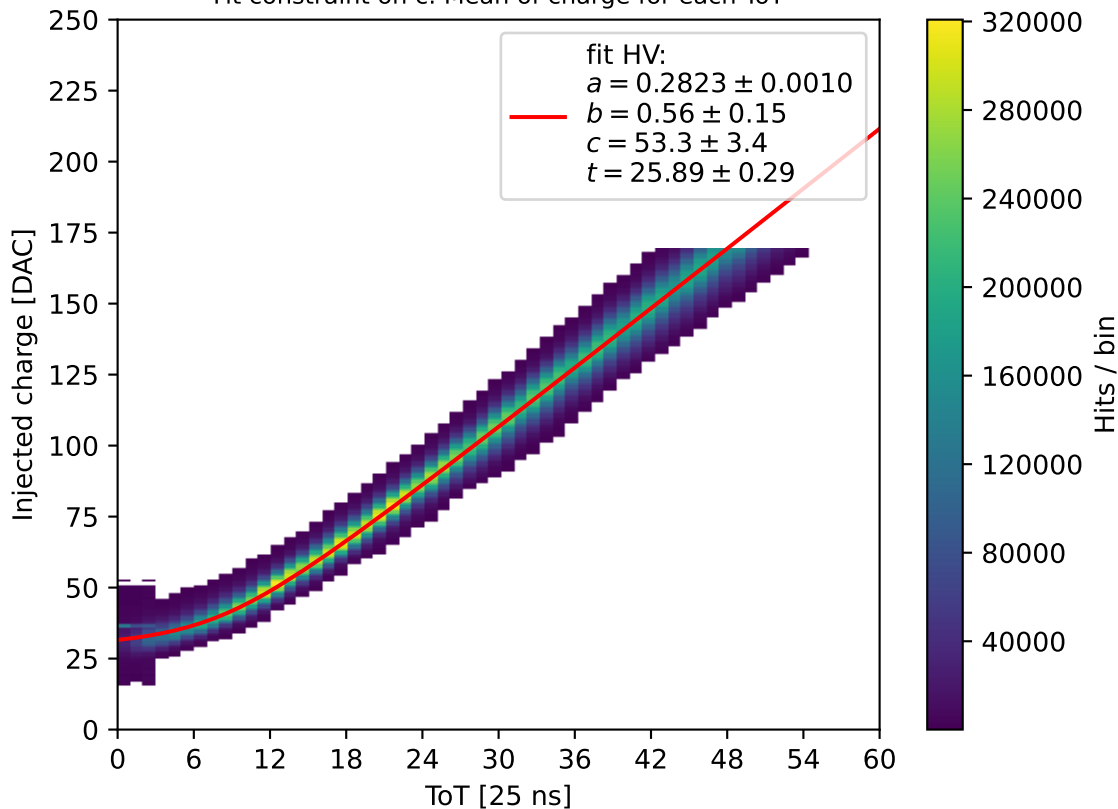
ToT curve (HV)

Fit constraint on c: Mean ToT for injected charge

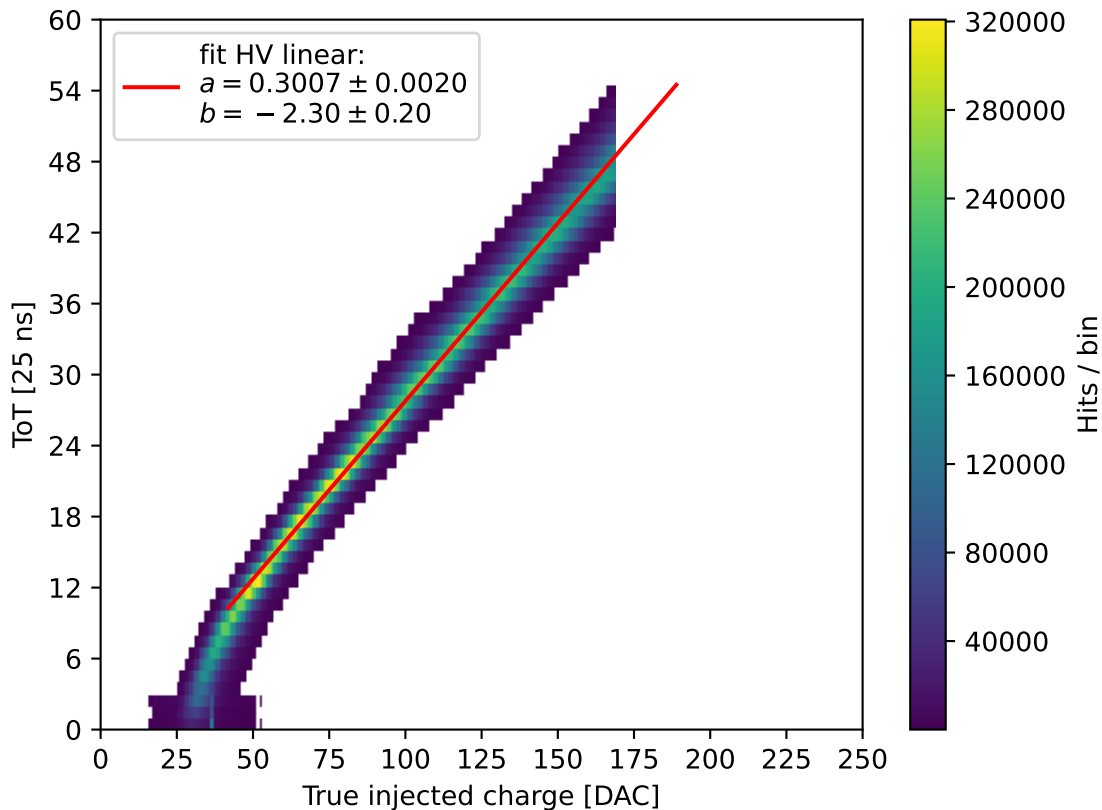


ToT curve (HV)

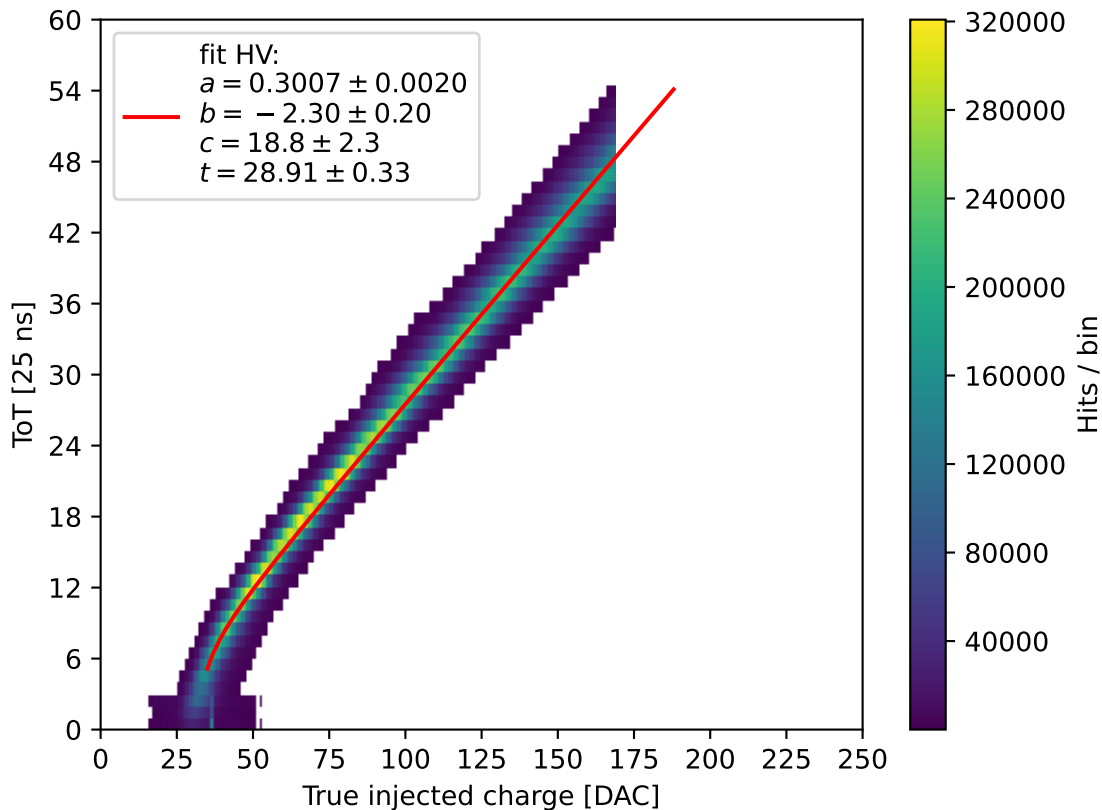
Fit constraint on c: Mean of charge for each ToT



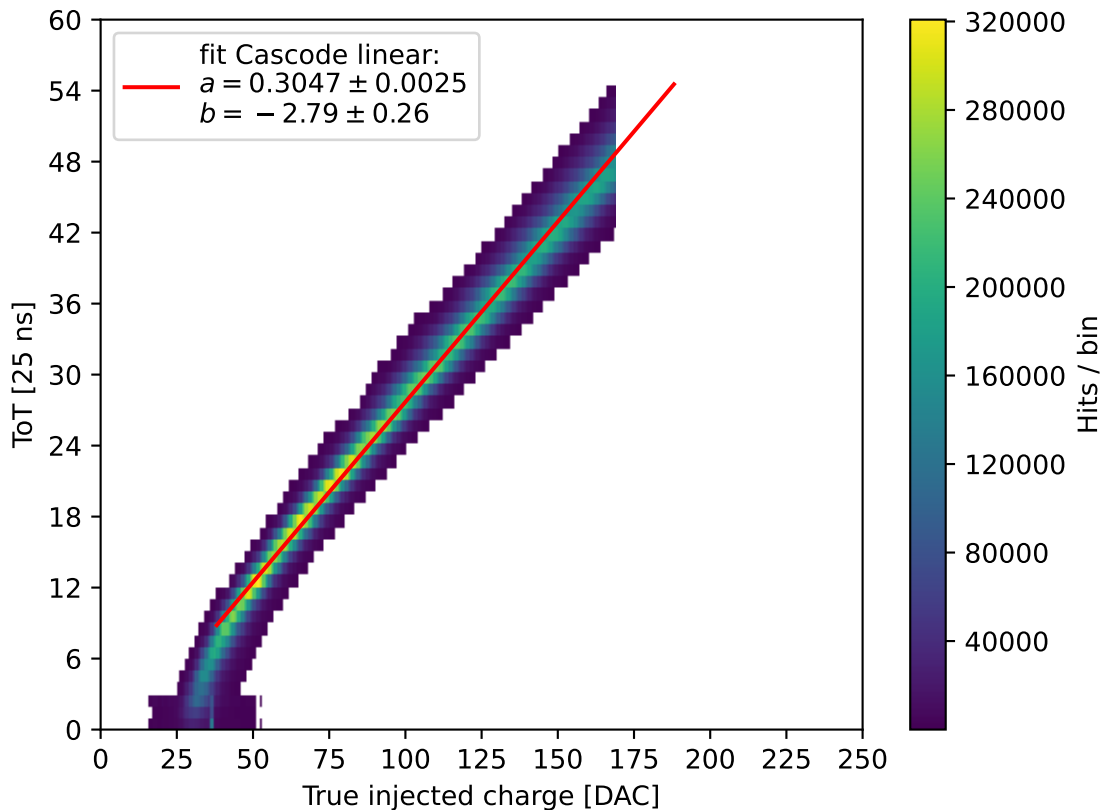
ToT curve (HV)[lin]



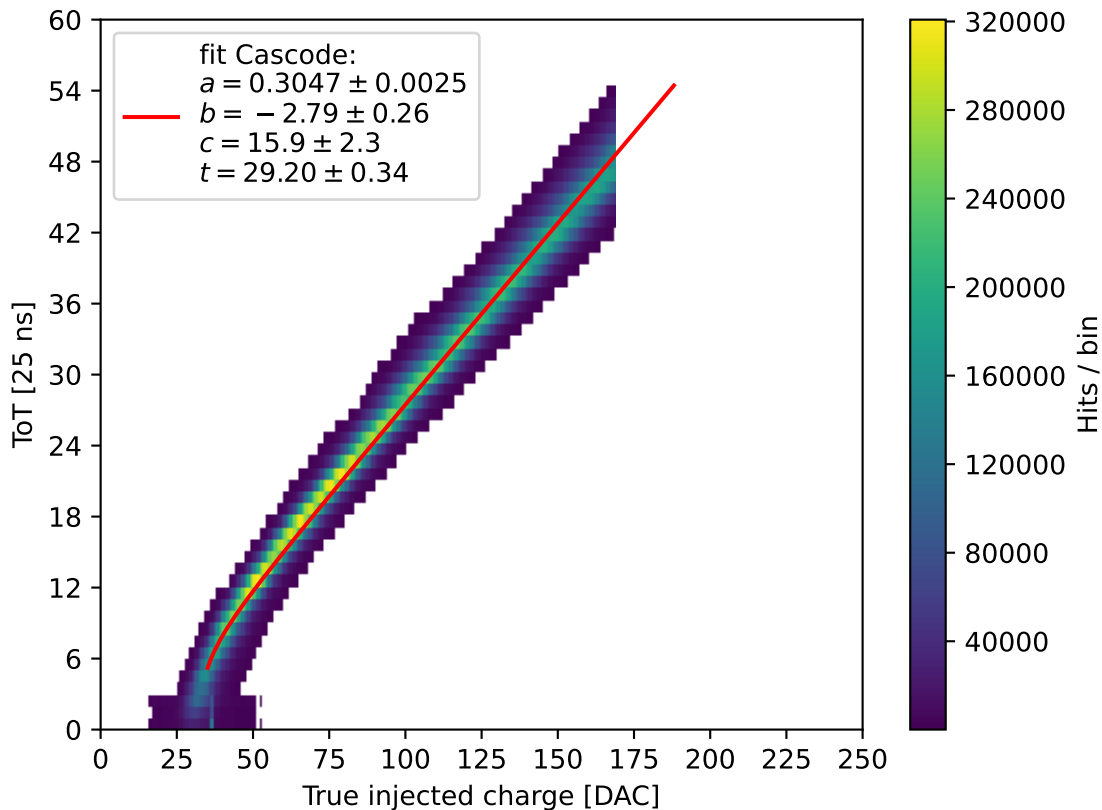
ToT curve (HV) ALL



ToT curve (Cascode)[lin]



ToT curve (Cascode) ALL

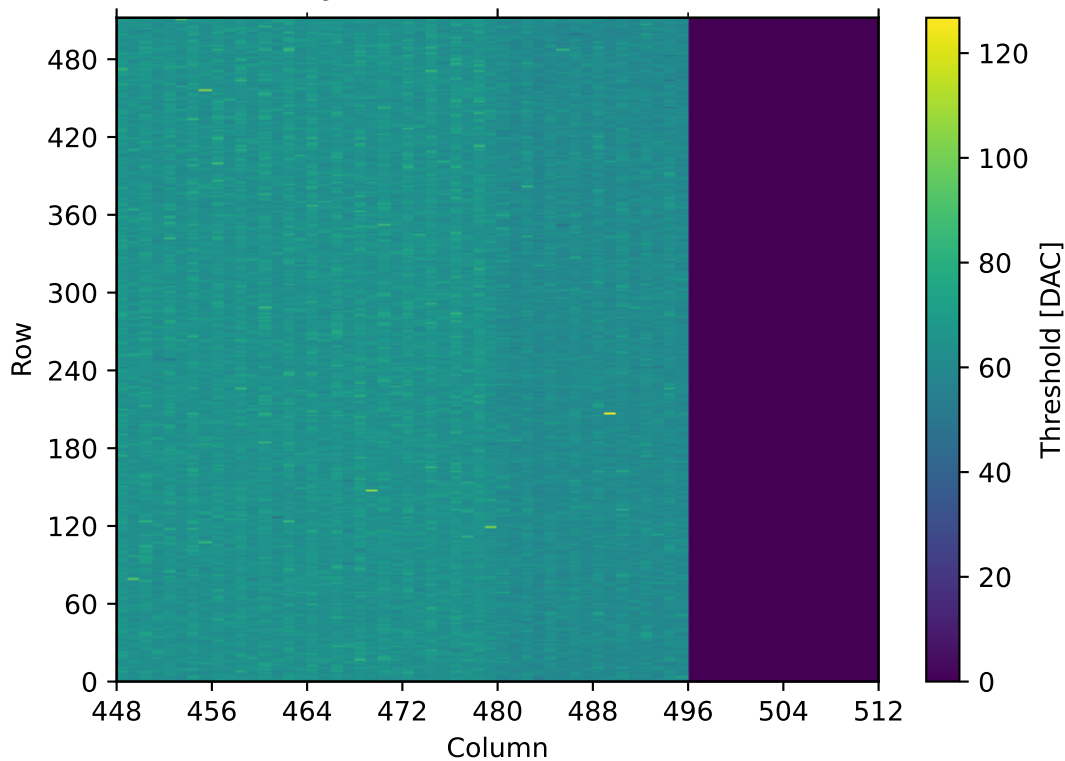


Threshold map

VH = 200, VL = 160..1 (step -1)

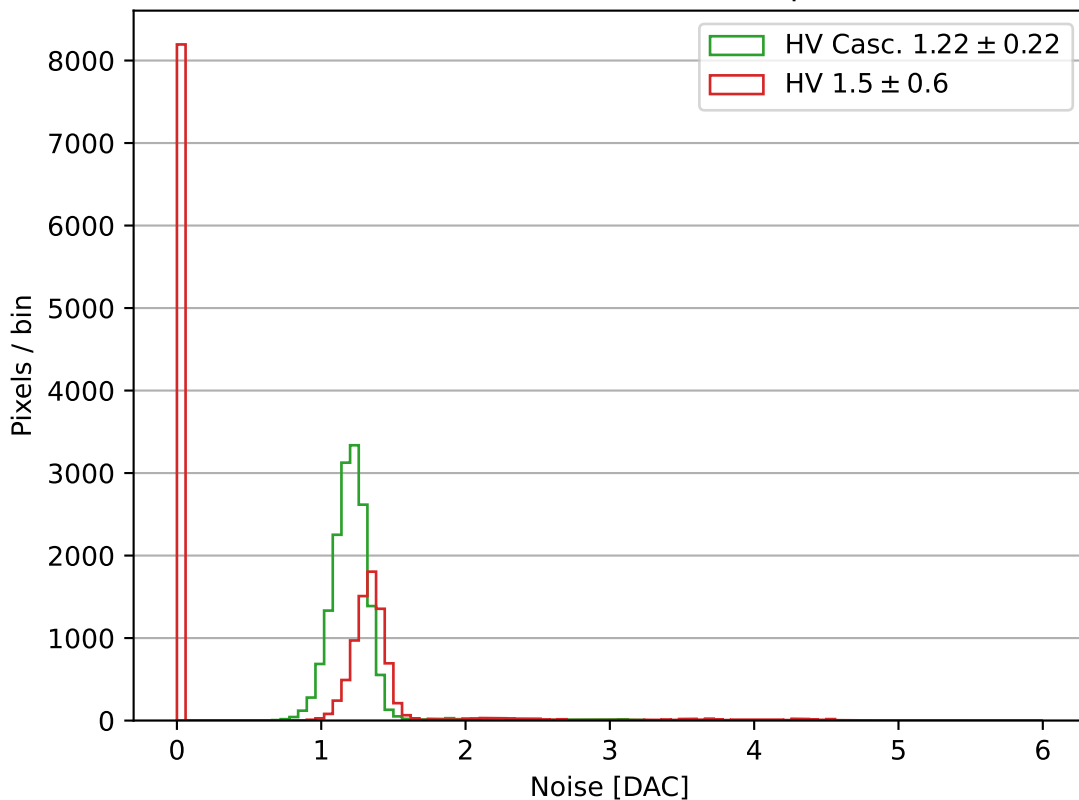
HV_C

HV



Noise (width of s-curve slope) distribution

VH = 200, VL = 160..1 (step -1)



Noise (width of s-curve slope) map

VH = 200, VL = 160..1 (step -1)

