

/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

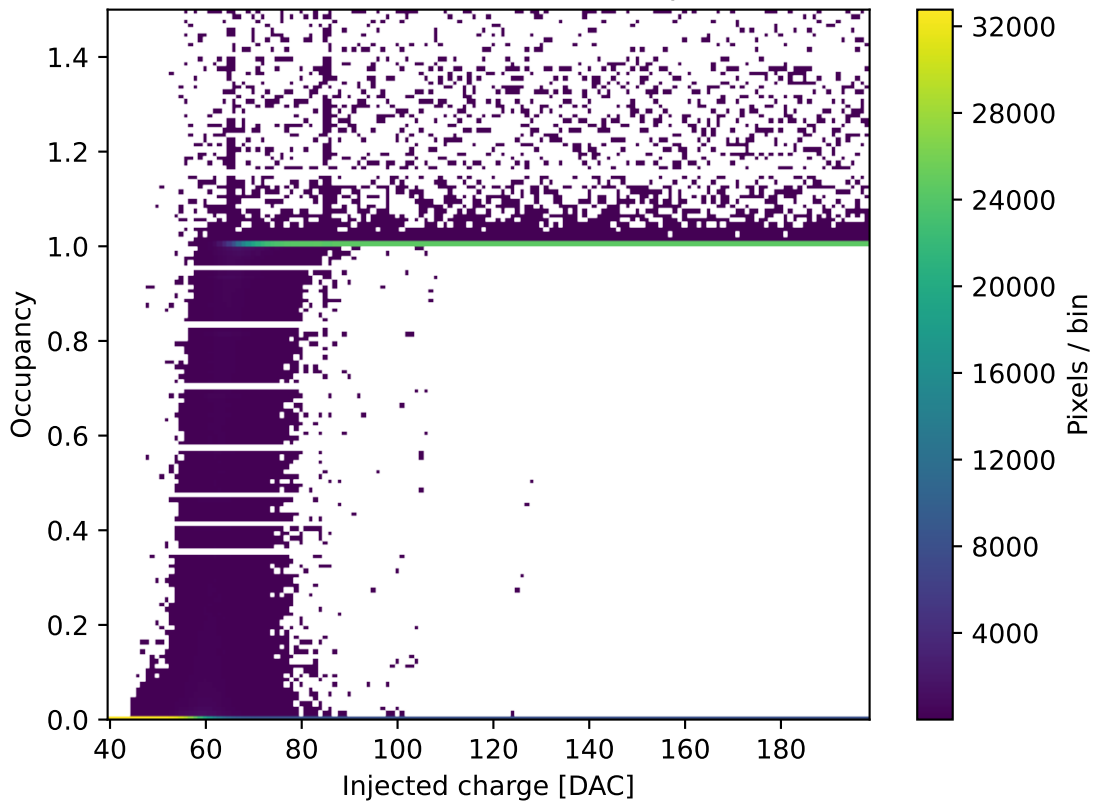
threshold_scan

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

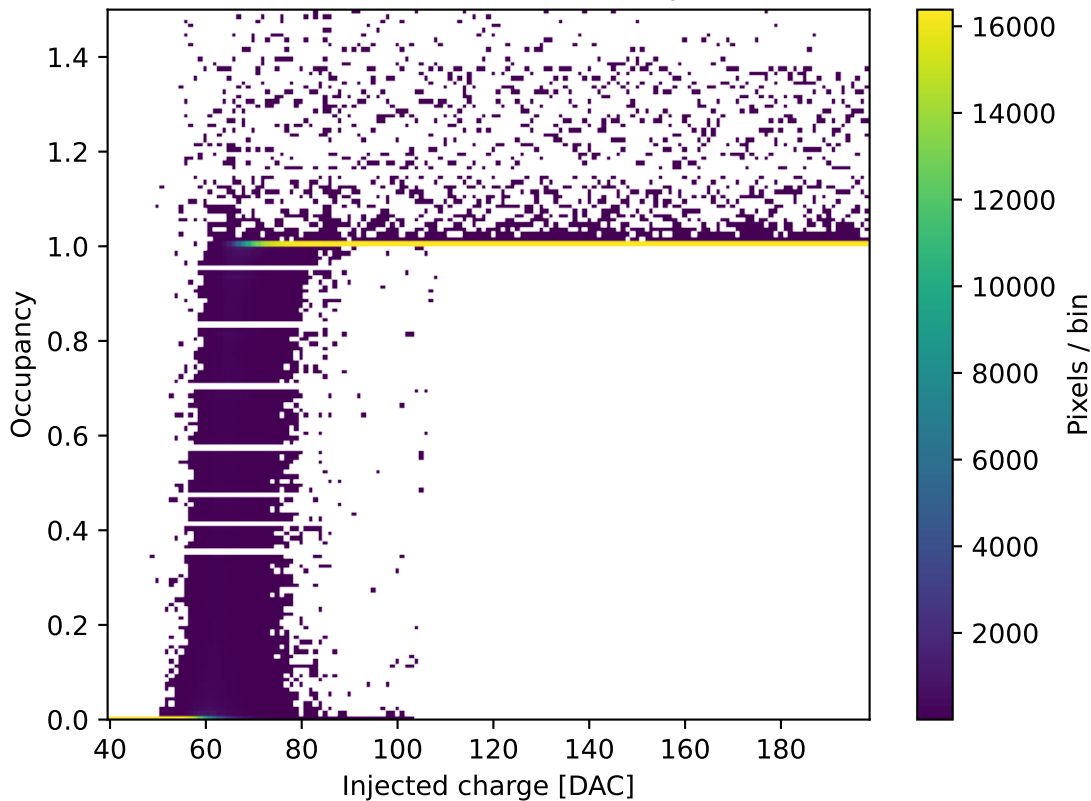
S-Curve (All FEs)

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



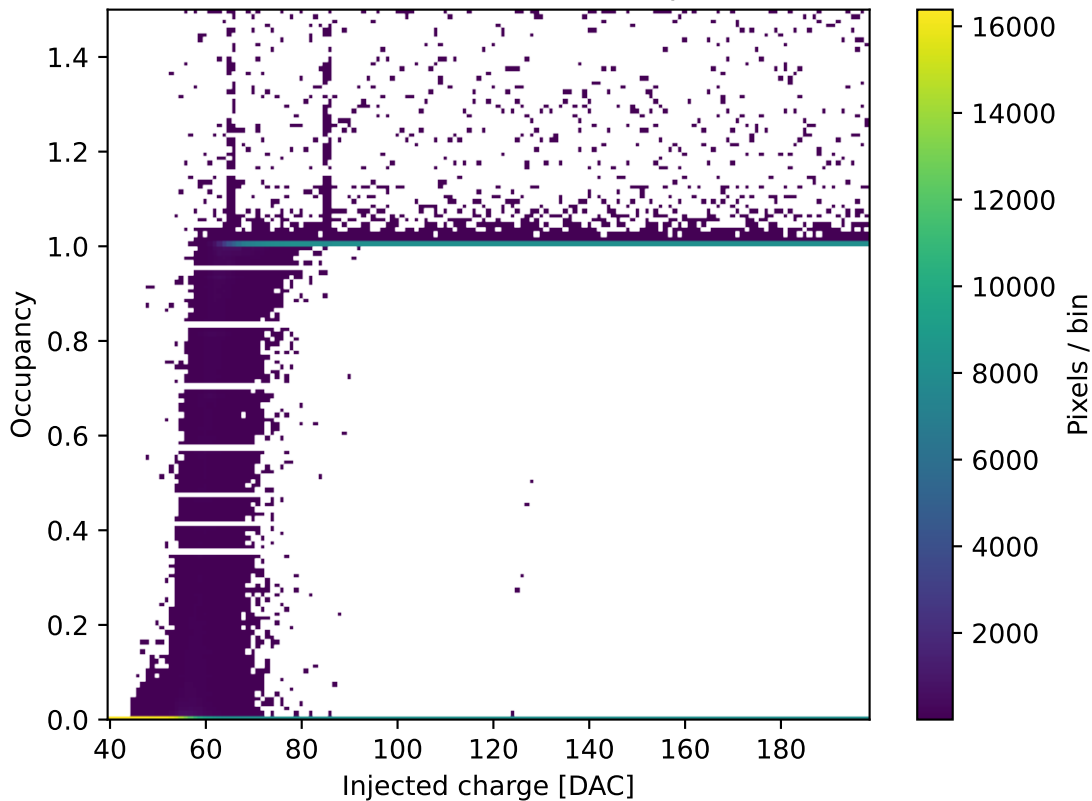
S-Curve (HV Casc.)

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



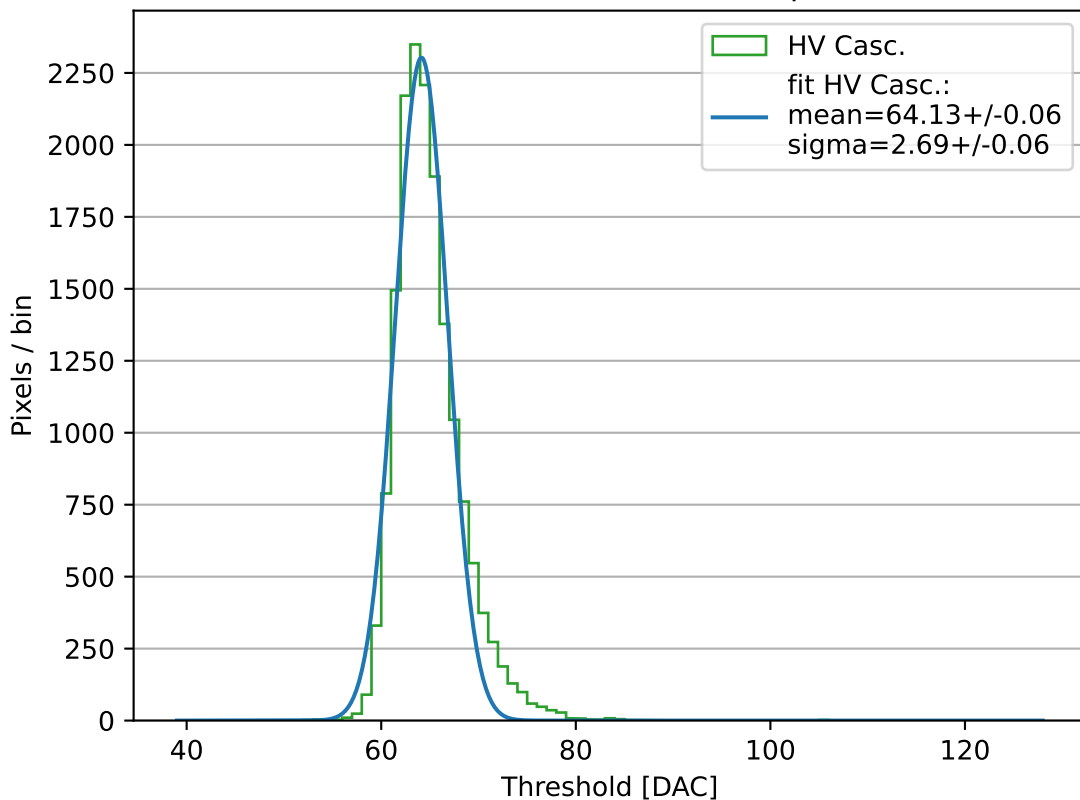
S-Curve (HV)

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



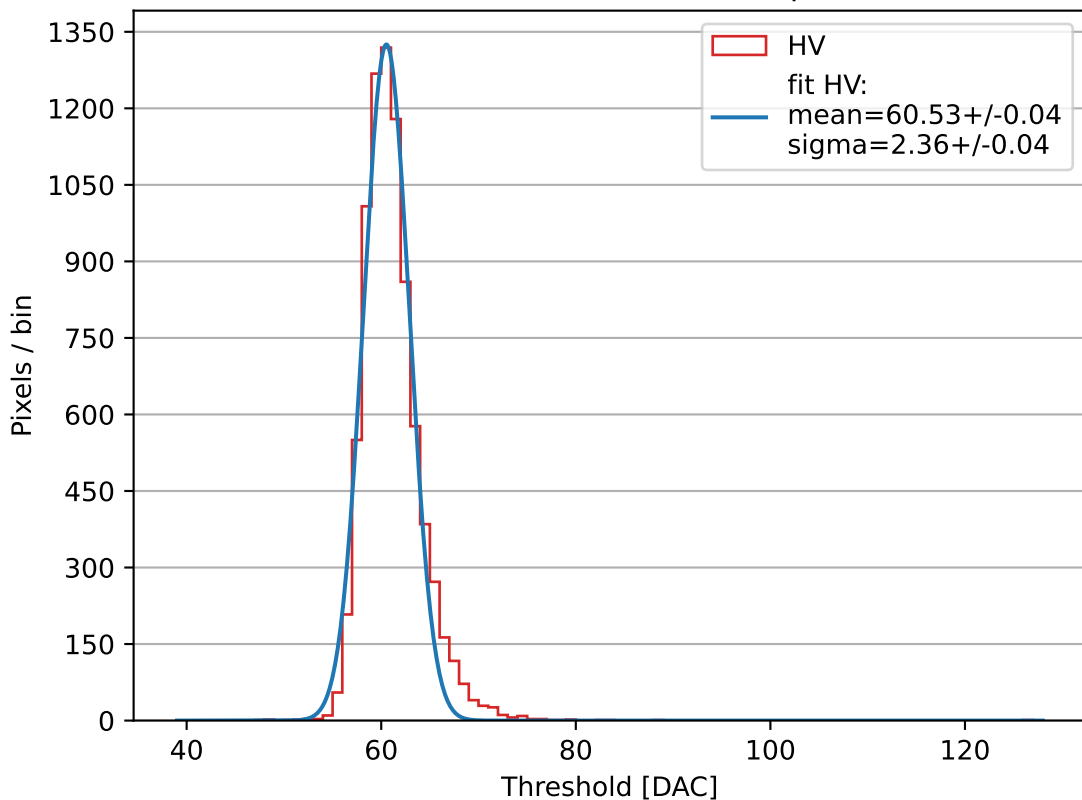
Threshold distribution (HV Casc.)

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



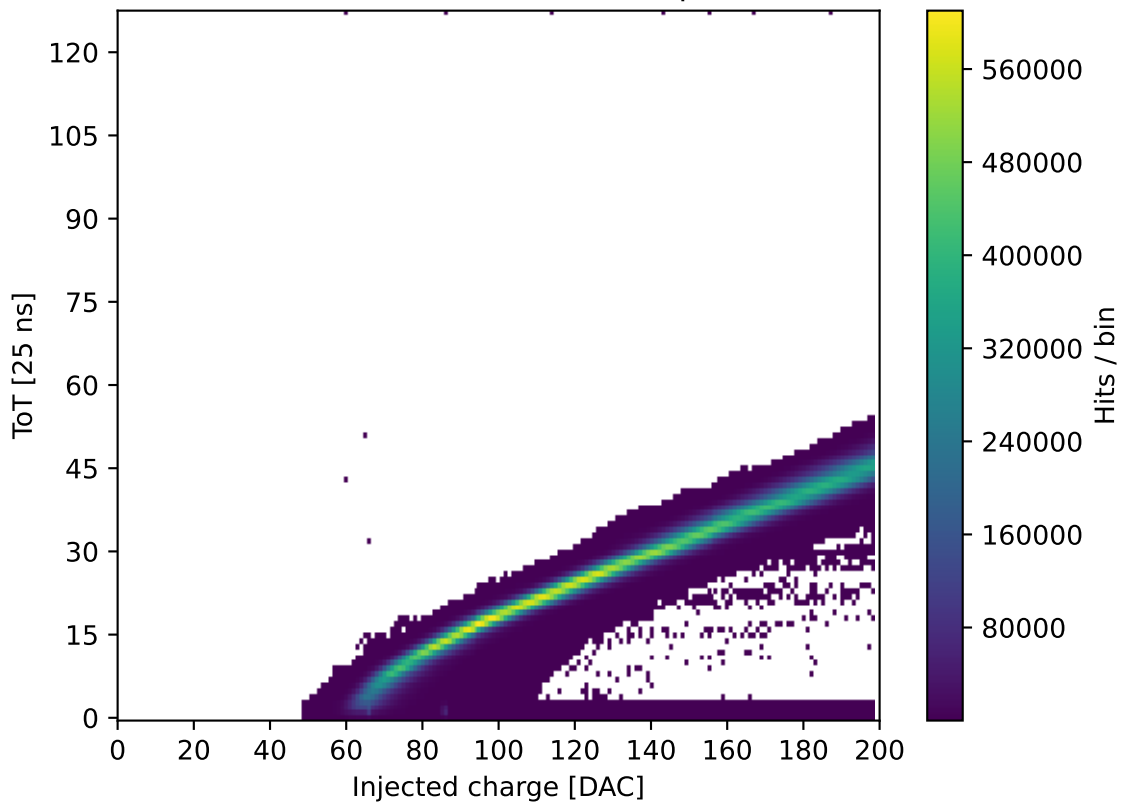
Threshold distribution (HV)

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

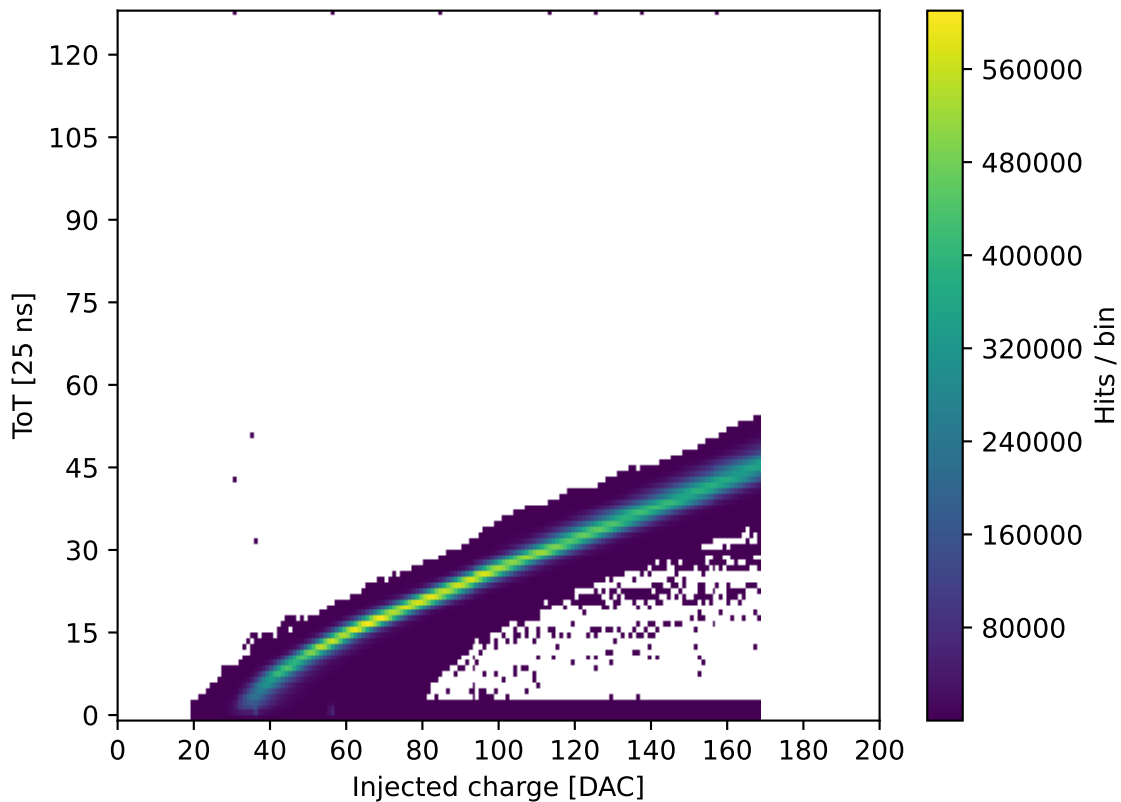


ToT curve (HV Casc.)

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

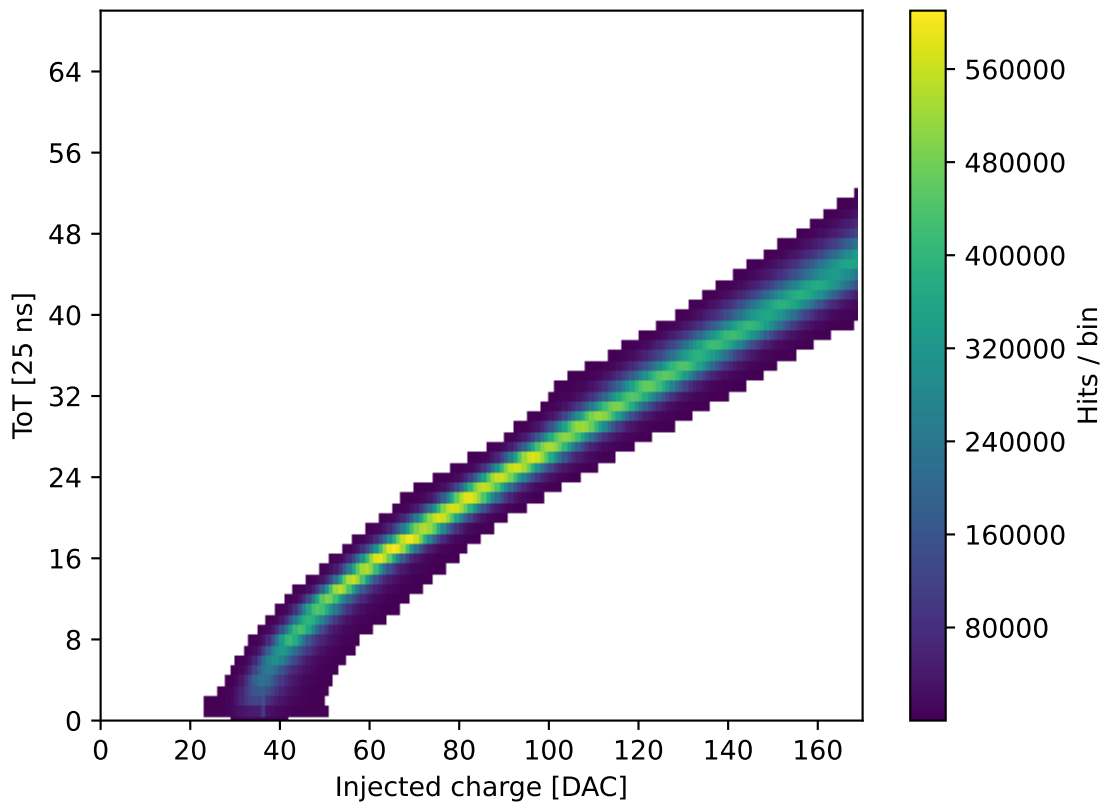


ToT curve (HV Casc.)



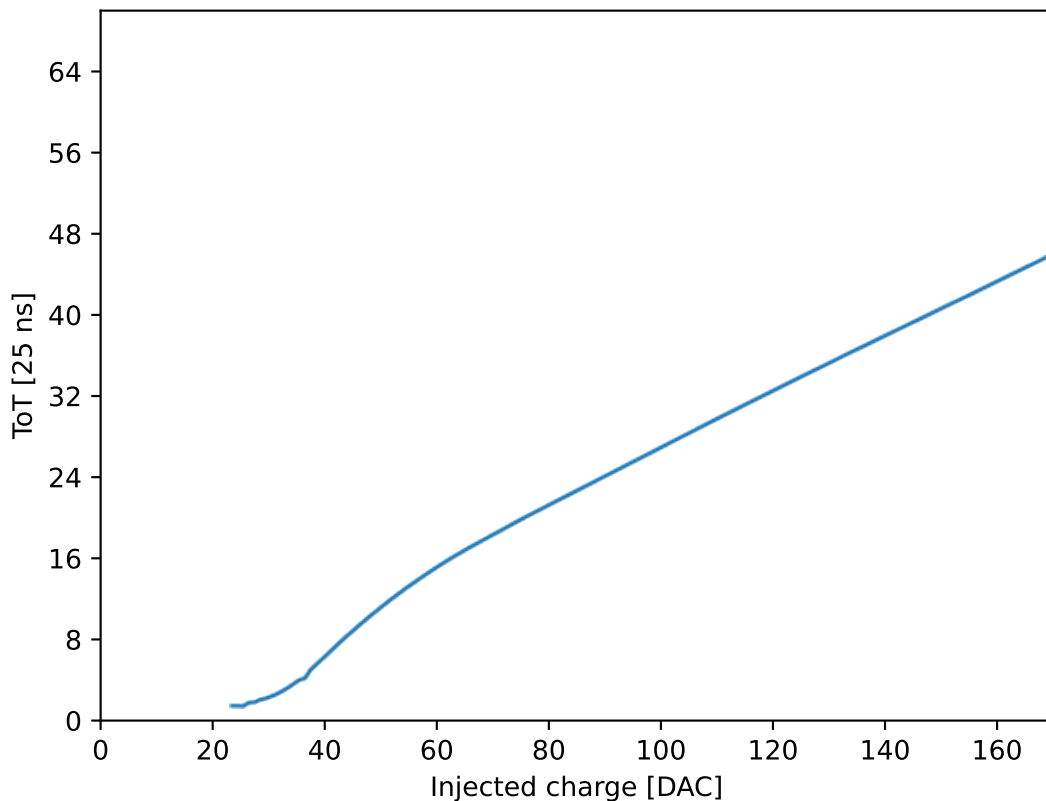
ToT curve (HV Casc.)

Hits/bin > 1000, clean



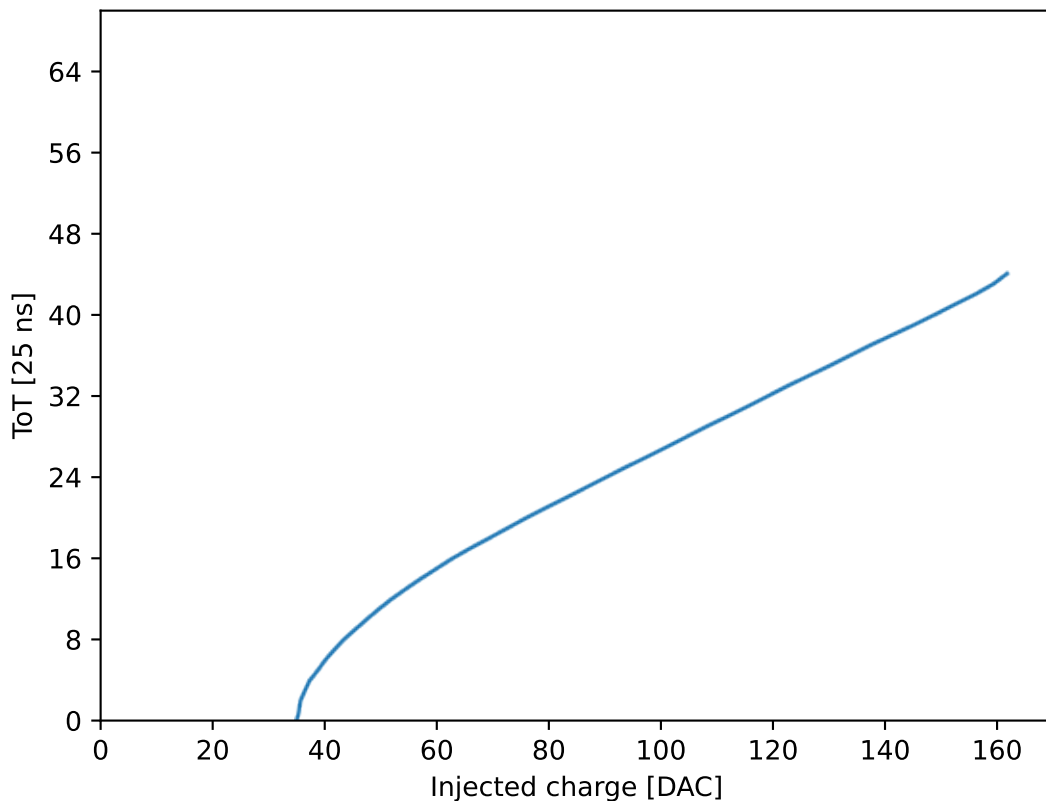
ToT curve (HV Casc.)

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



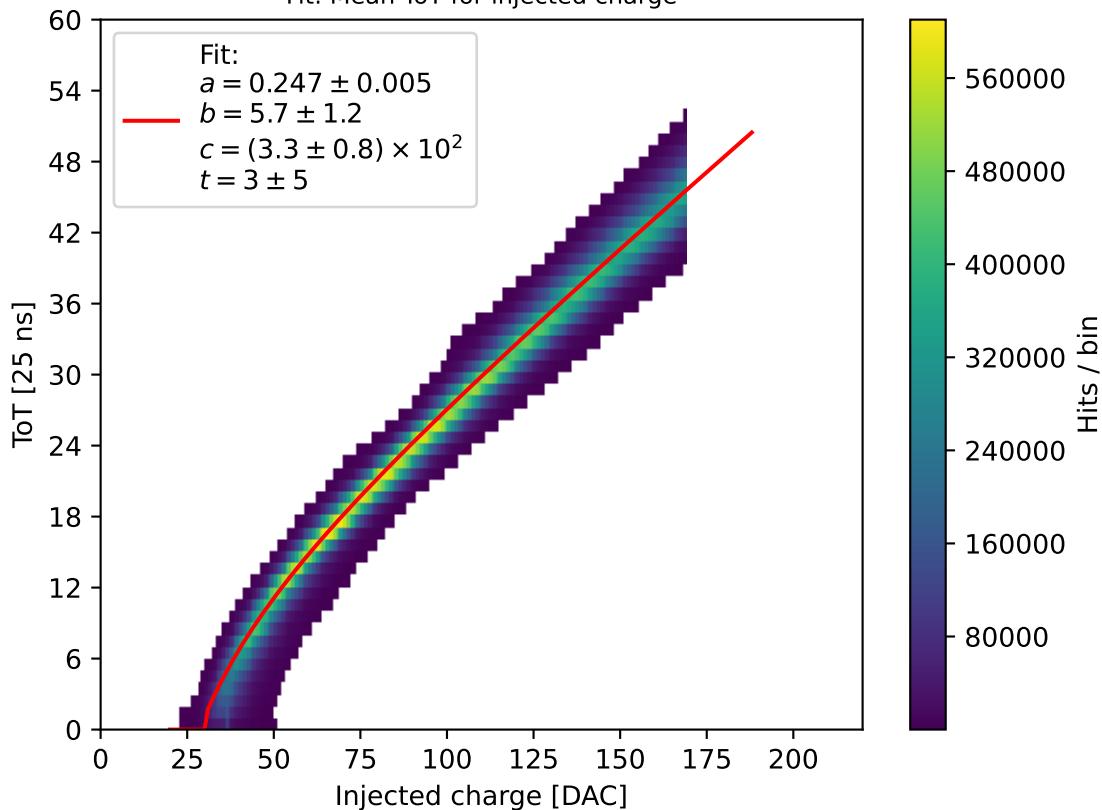
ToT curve mean on charge (HV Casc.)

Mean of charge for each value of ToT, cut



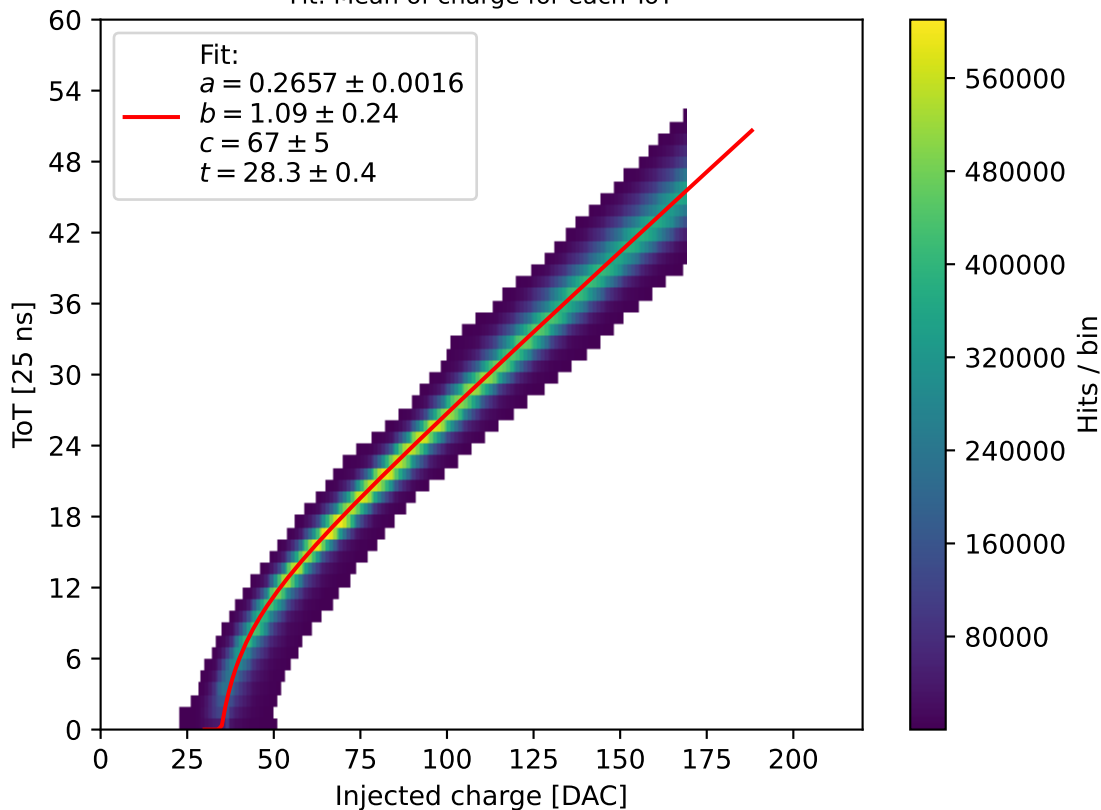
ToT curve (HV Casc.)

Fit: Mean ToT for injected charge



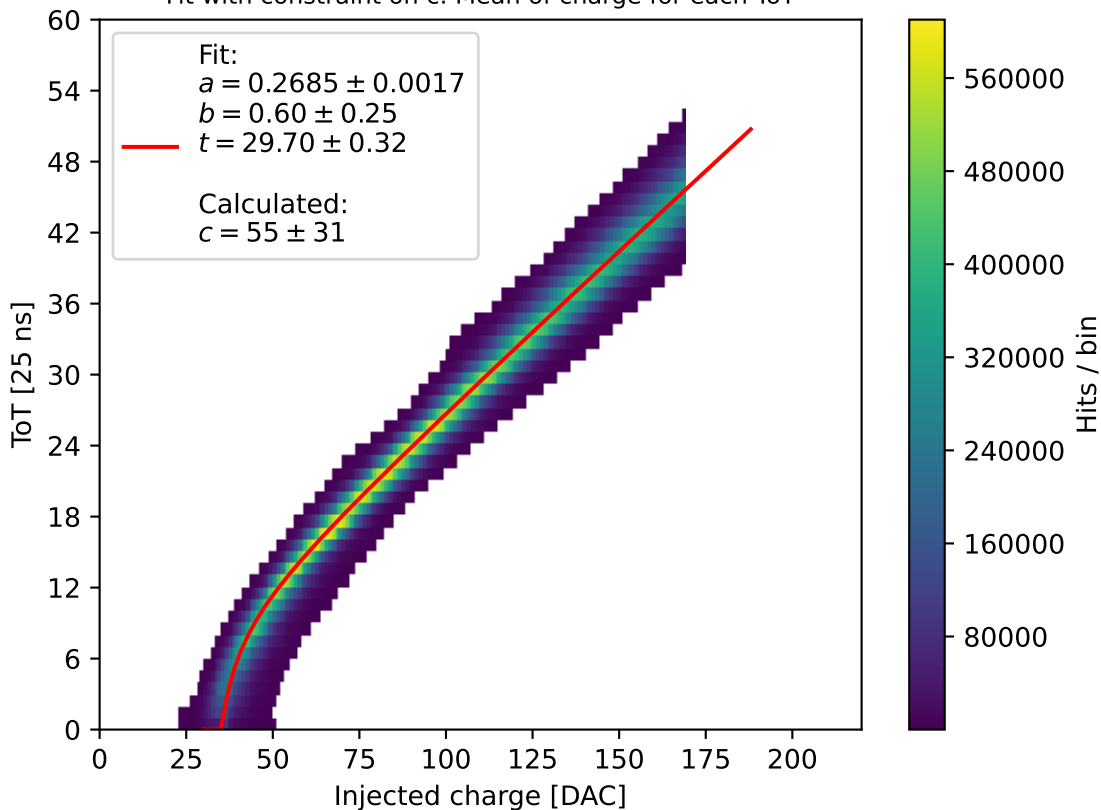
ToT curve (HV Casc.)

Fit: Mean of charge for each ToT



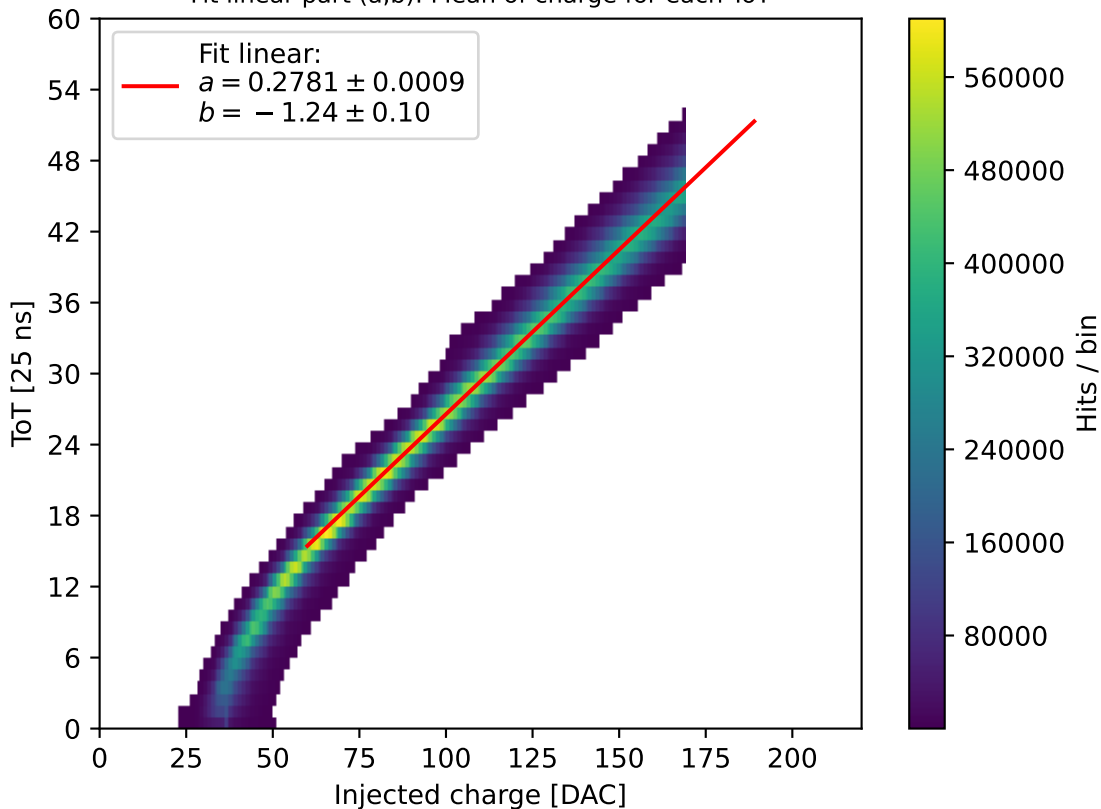
ToT curve fit (HV Casc.)

Fit with constraint on c: Mean of charge for each ToT

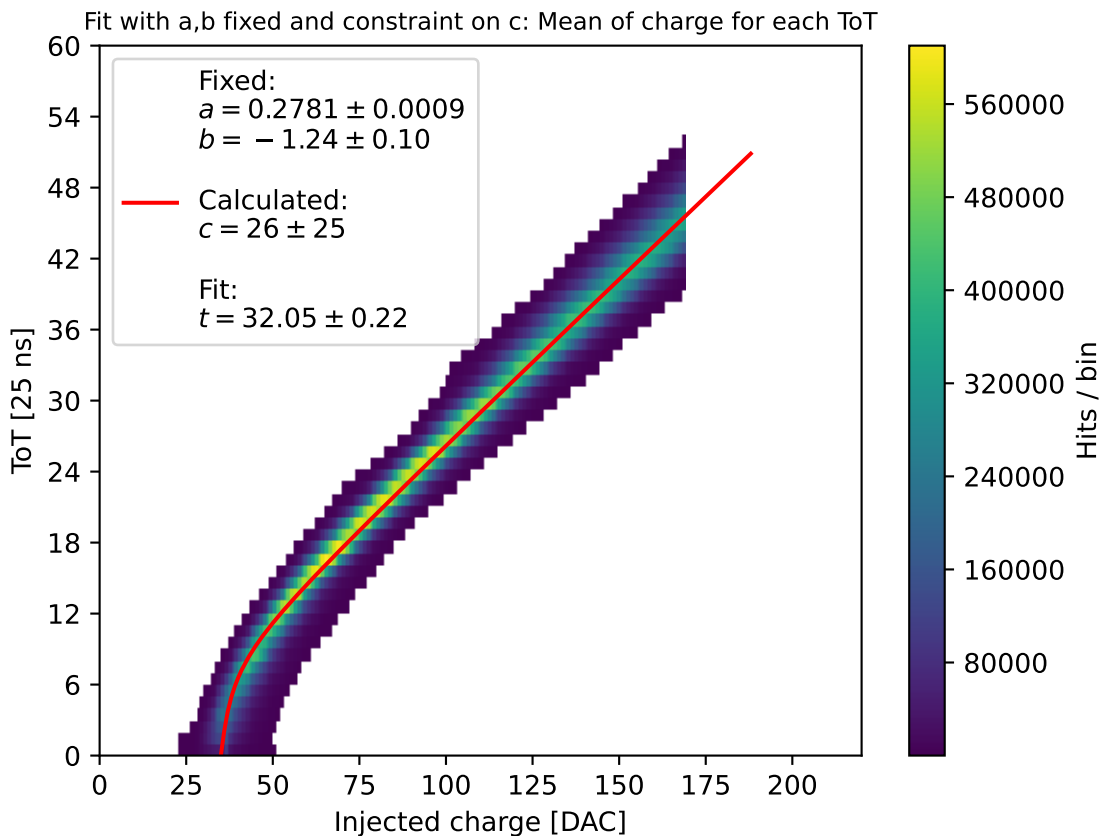


ToT curve (HV Casc.)

Fit linear part (a,b): Mean of charge for each ToT

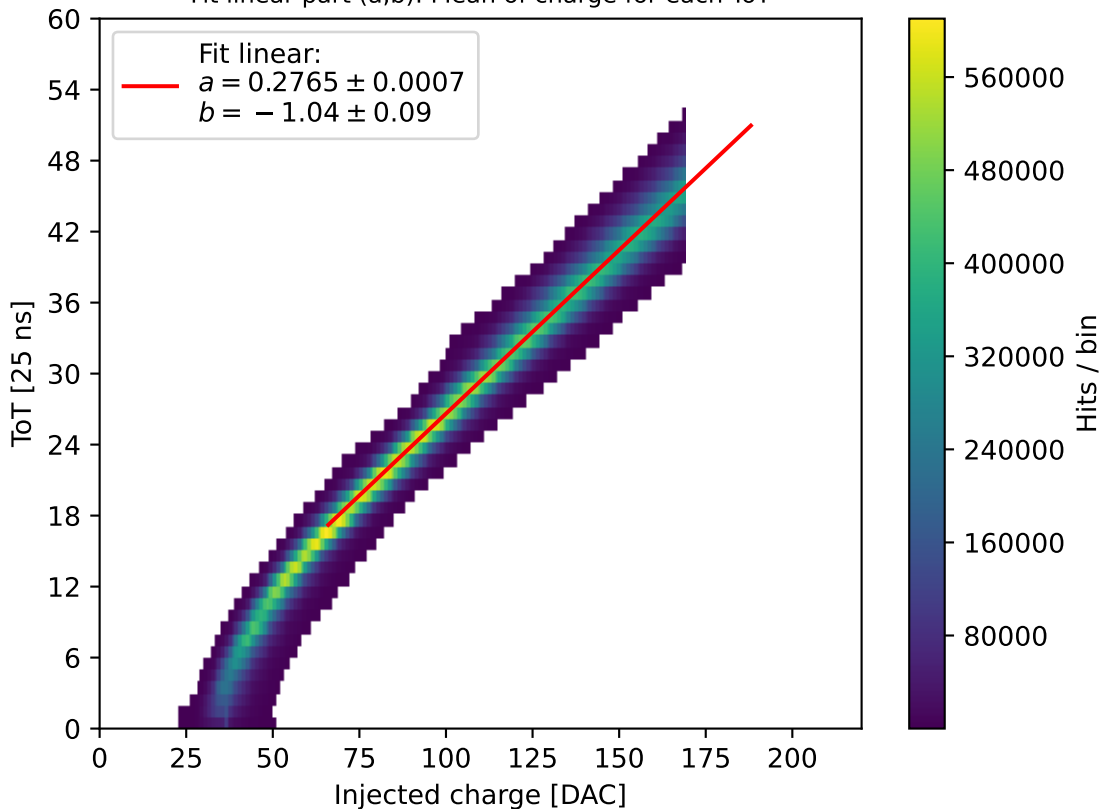


ToT curve (HV Casc.)



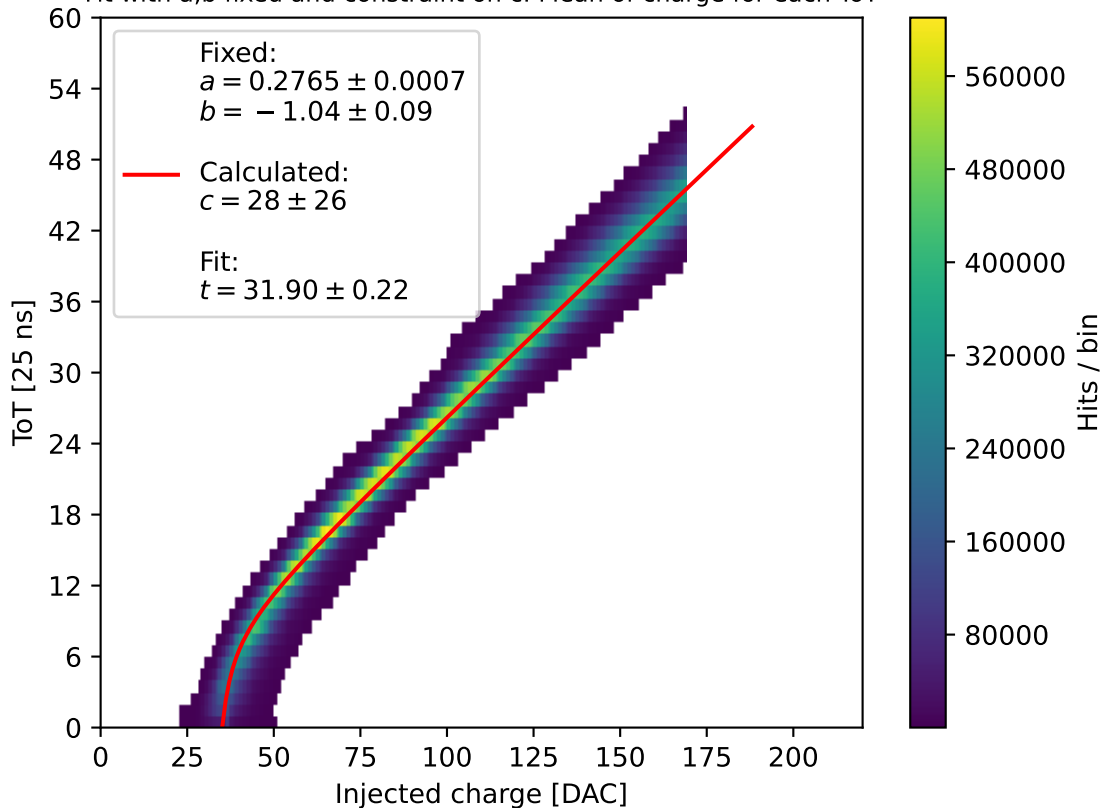
ToT curve (HV Casc.)

Fit linear part (a,b): Mean of charge for each ToT



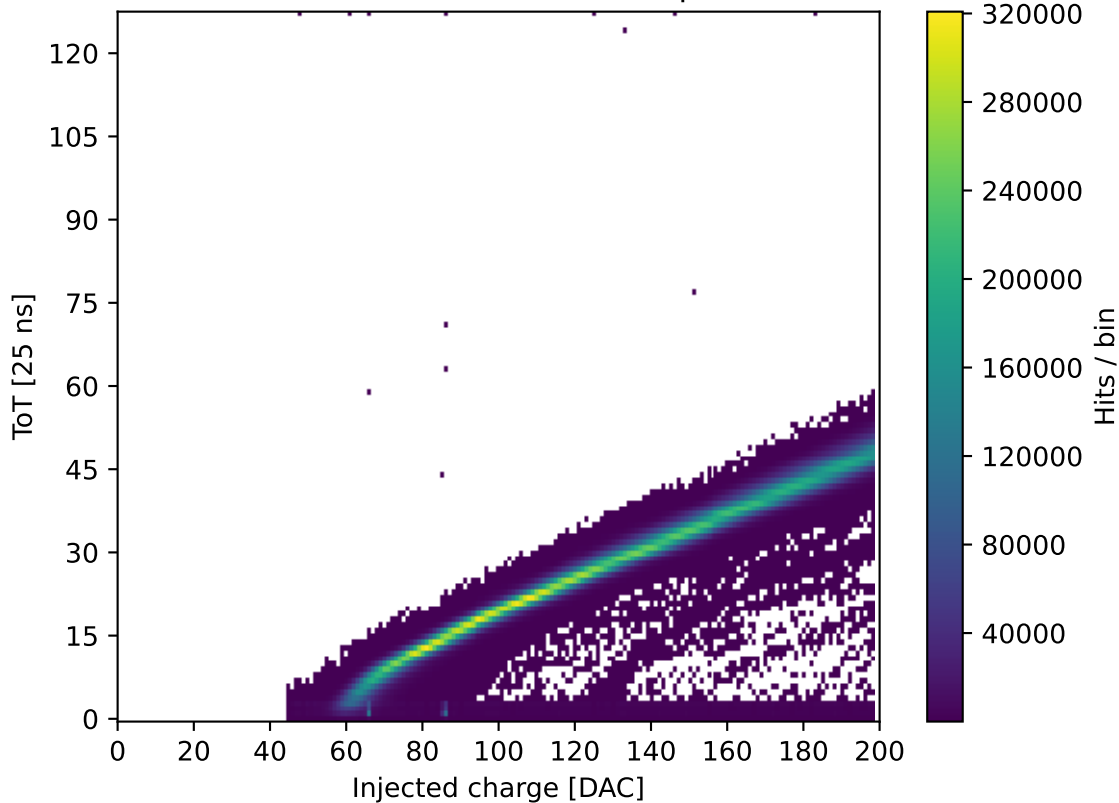
ToT curve (HV Casc.)

Fit with a,b fixed and constraint on c: Mean of charge for each ToT

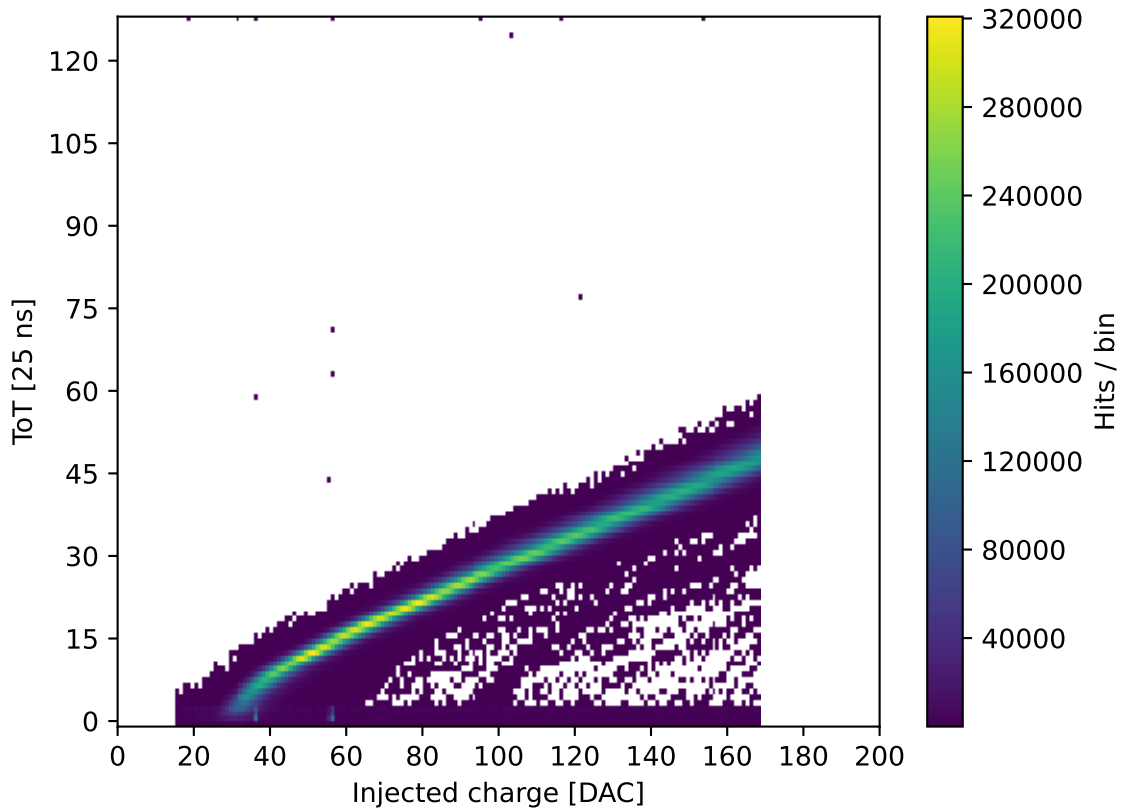


ToT curve (HV)

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

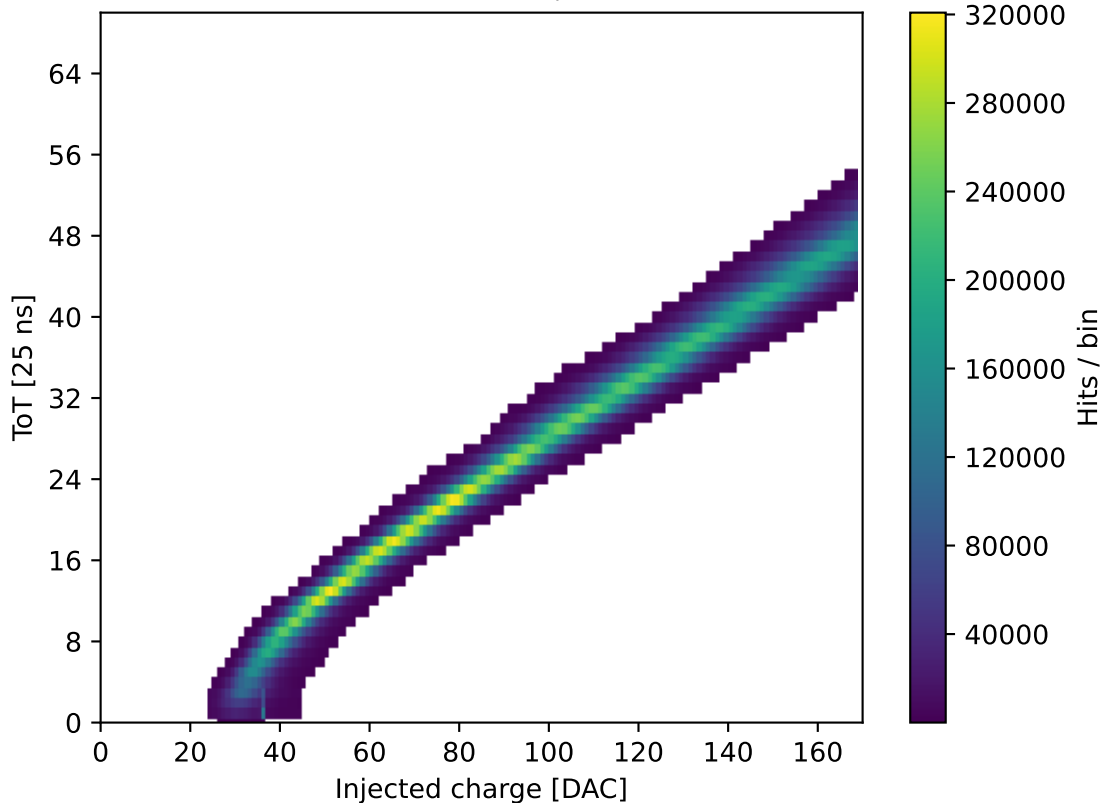


ToT curve (HV)



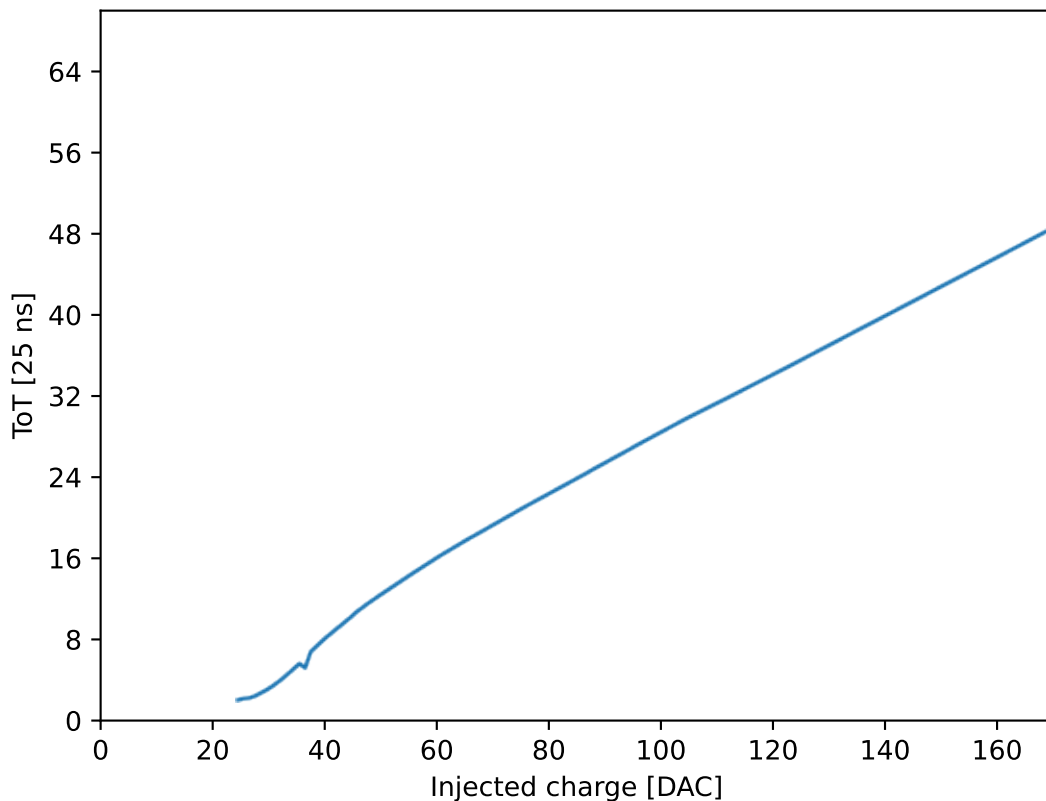
ToT curve (HV)

Hits/bin > 1000, clean



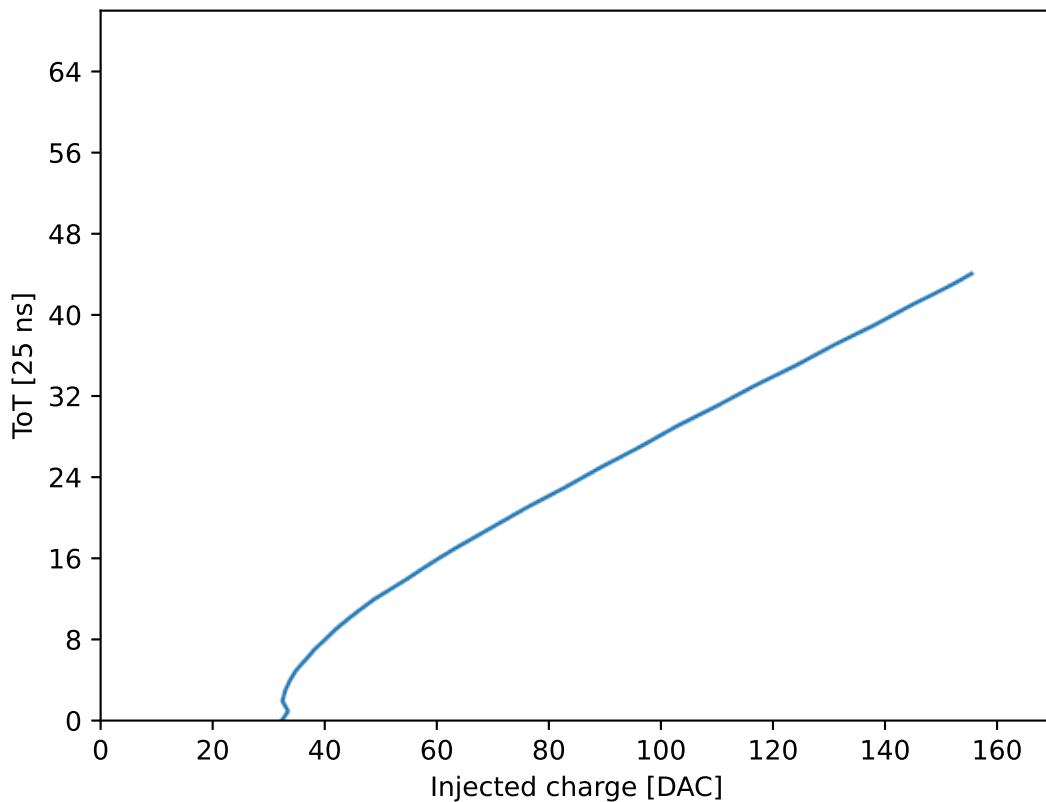
ToT curve (HV)

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



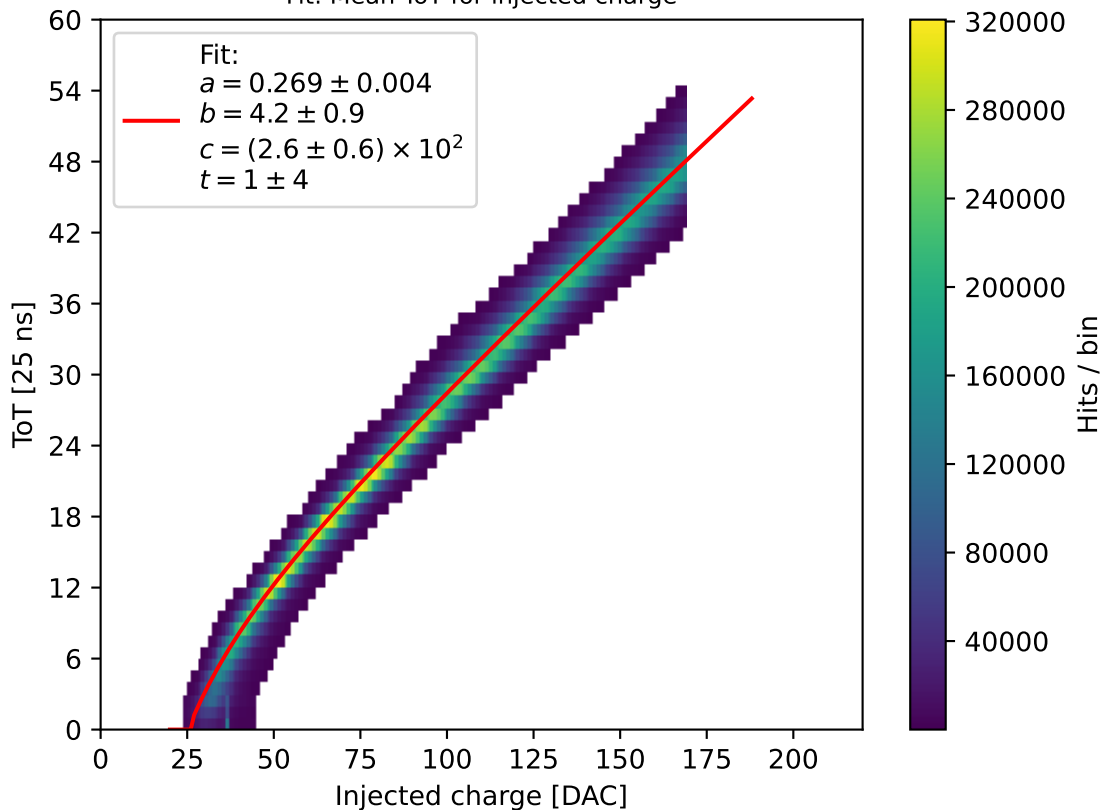
ToT curve mean on charge (HV)

Mean of charge for each value of ToT, cut



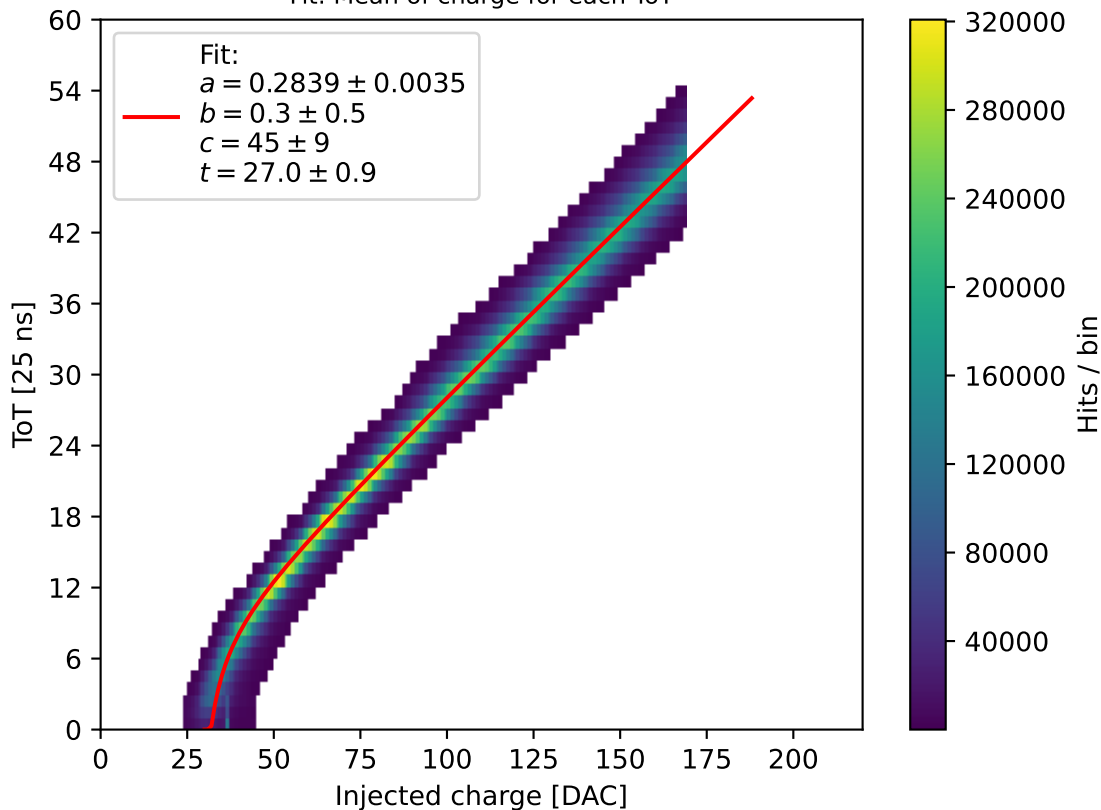
ToT curve (HV)

Fit: Mean ToT for injected charge



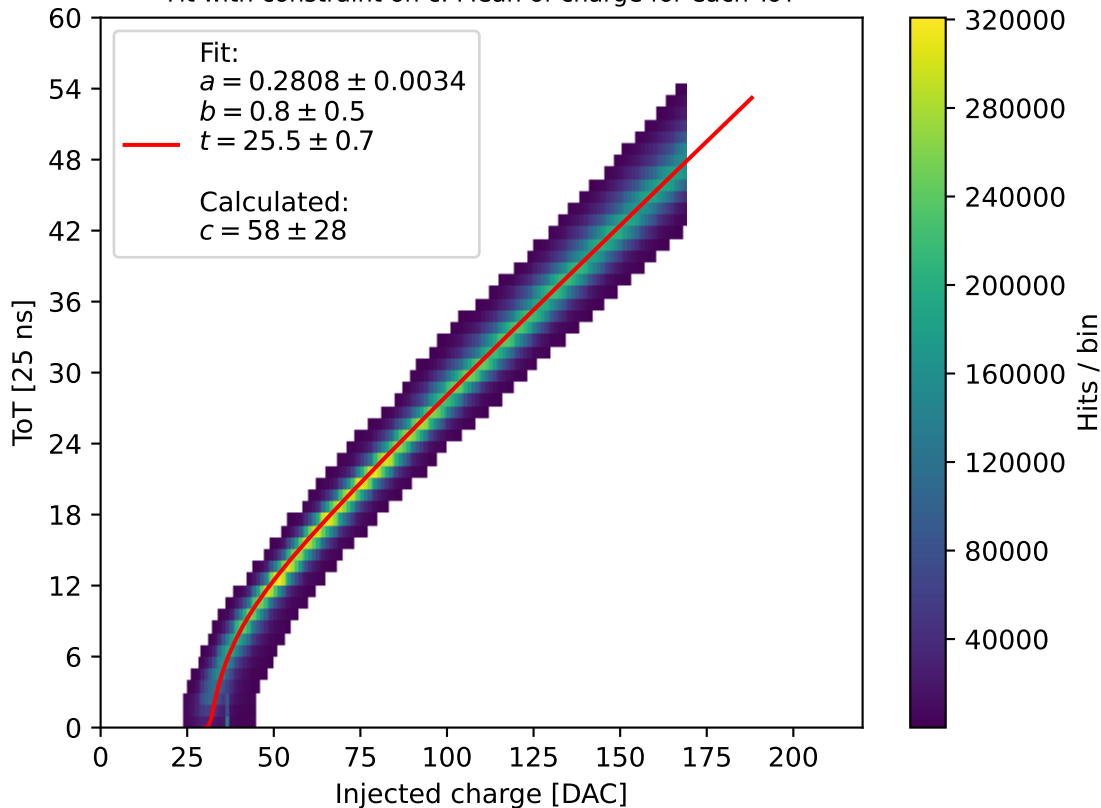
ToT curve (HV)

Fit: Mean of charge for each ToT



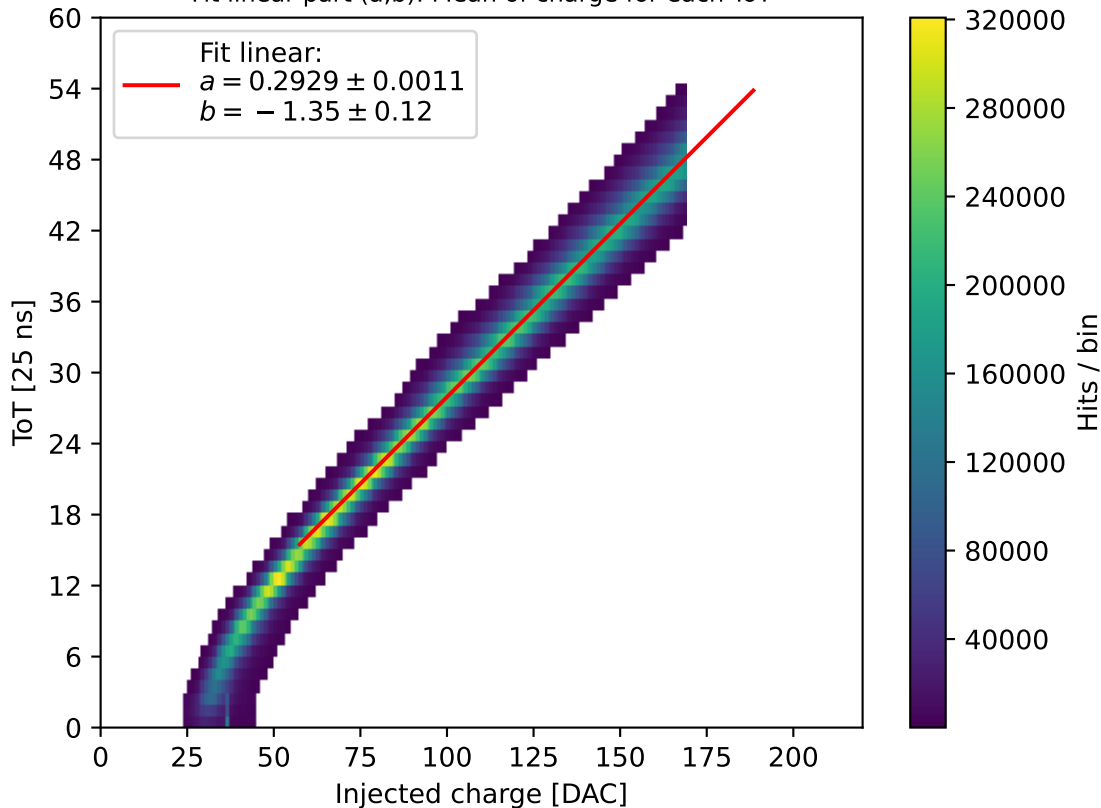
ToT curve fit (HV)

Fit with constraint on c: Mean of charge for each ToT

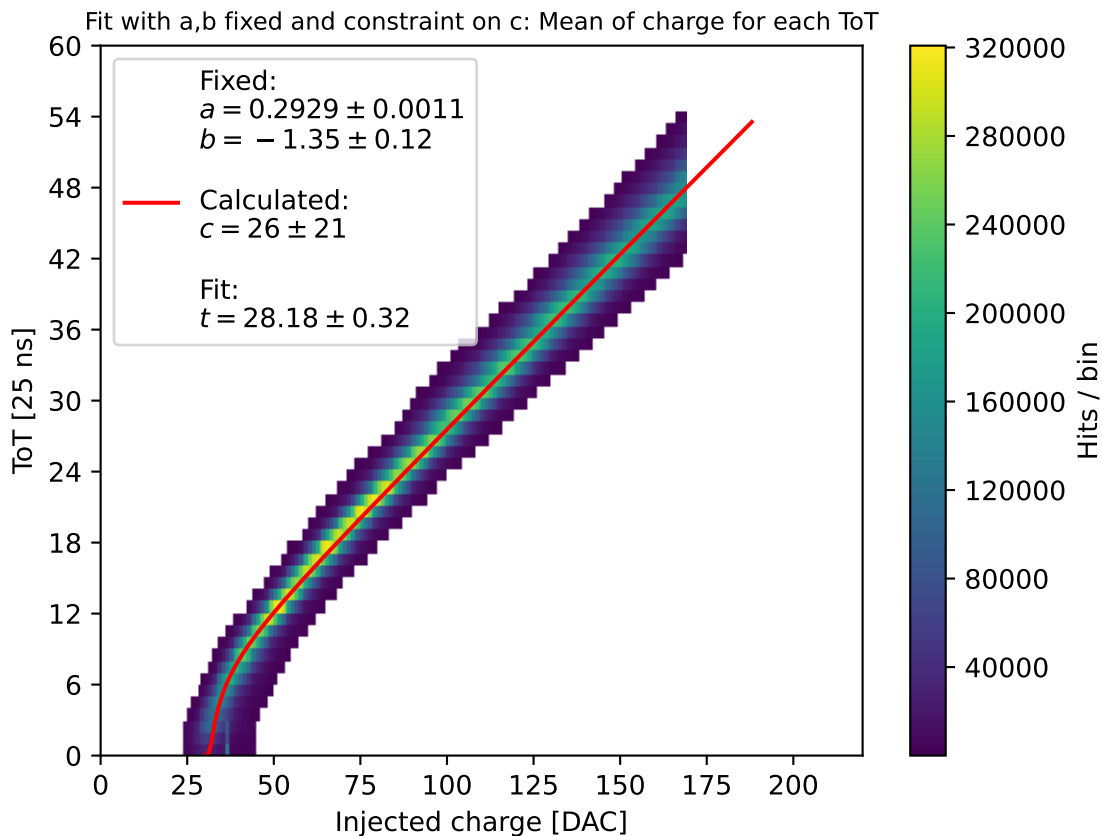


ToT curve (HV)

Fit linear part (a,b): Mean of charge for each ToT

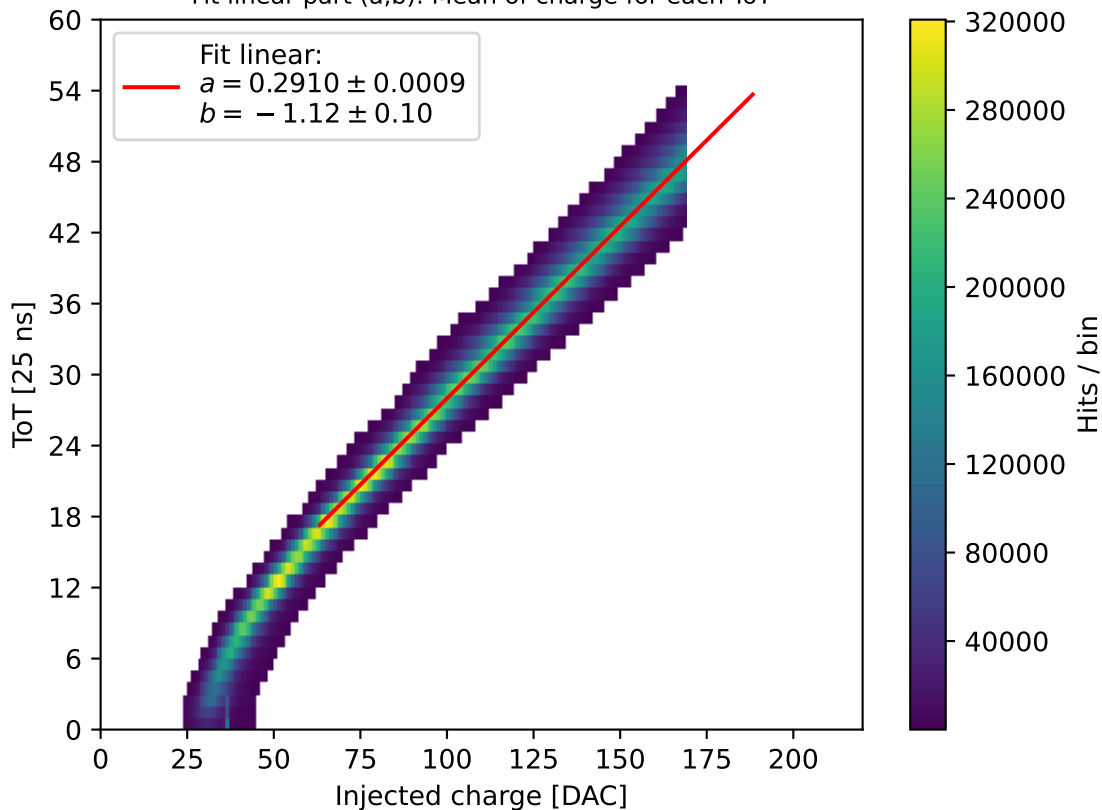


ToT curve (HV)



ToT curve (HV)

Fit linear part (a,b): Mean of charge for each ToT



ToT curve (HV)

