```
/mnt/c/Users/client/Desktop/tesi/tesi/Analysis/W14R12/threshold scan/all casc/
140/20221003 115355 threshold scan interpreted.h5
                  Chip = W14R12
              Script version = 915a739
```

IBIAS = 50, ITHR = 64, ICASN = 0, IDB = 100, ITUNE = 53, VRESET = 143, VCASP = 10093, VCASC = 228, VCLIP = 255, VL = 2, VH = 140, ICOMP = 80, IDEL = 88, IRAM = 50 threshold scan start column = 224, stop column = 448, start row = 0, stop row = 512,

n injections = 100, VCAL HIGH = 140, VCAL LOW start = 139, VCAL LOW stop = 1, VCAL LOW step = -1

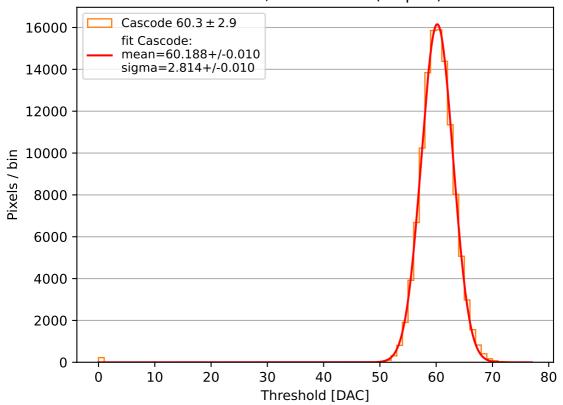


S-Curve (All FEs) VH = 140, VL = 139..1 (step -1) 1.4 105000 1.2 90000 1.0 75000 Occupancy Pixels / bin 8.0 60000 0.6 45000 0.4 30000 0.2 15000 0.0 15 30 45 60 75 90 105 120 135 Injected charge [DAC]

S-Curve (Cascode) VH = 140, VL = 139..1 (step -1) 1.4 105000 1.2 90000 1.0 75000 Occupancy Pixels / bin 8.0 60000 0.6 45000 0.4 30000 0.2 15000 0.0 15 30 60 75 90 105 120 135 45 Injected charge [DAC]

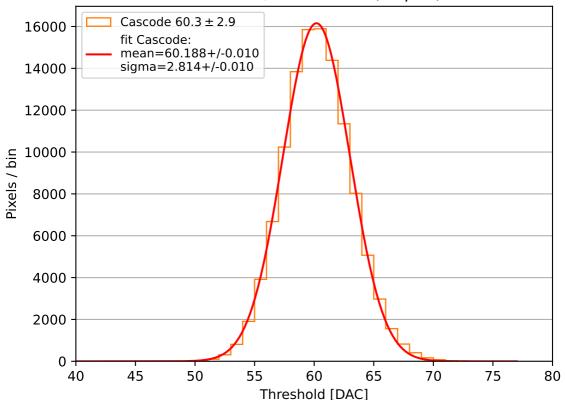
Threshold distribution

VH = 140, VL = 139..1 (step -1)

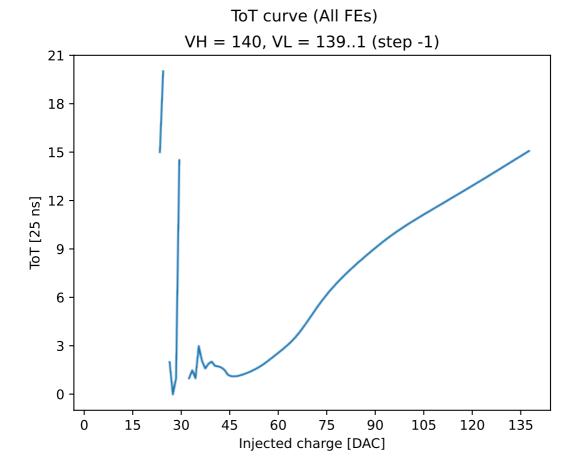


Threshold distribution

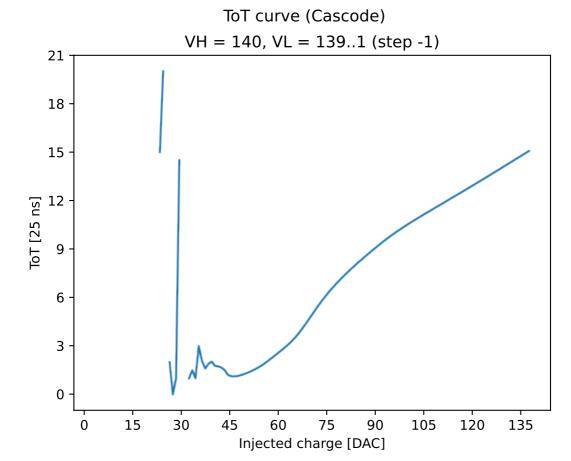
VH = 140, VL = 139..1 (step -1)



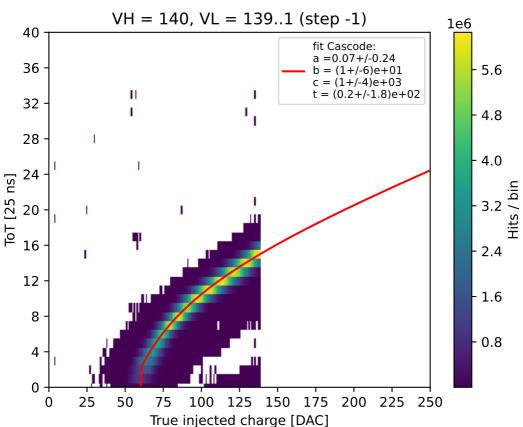
ToT curve (All FEs) VH = 140, VL = 139..1 (step -1) 1e6 120 5.6 105 4.8 90 4.0 75 ToT [25 ns] 3.2 60 2.4 45 1.6 30 0.8 15 0 15 30 45 60 90 105 120 135 75 Injected charge [DAC]



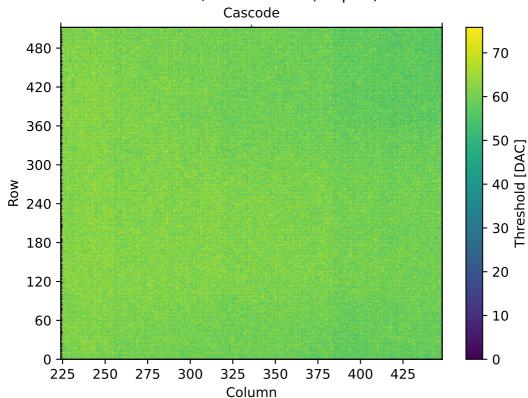
ToT curve (Cascode) VH = 140, VL = 139..1 (step -1) 1e6 120 5.6 105 4.8 90 4.0 75 ToT [25 ns] 3.2 60 2.4 45 1.6 30 0.8 15 0 15 30 45 60 90 105 120 135 75 Injected charge [DAC]



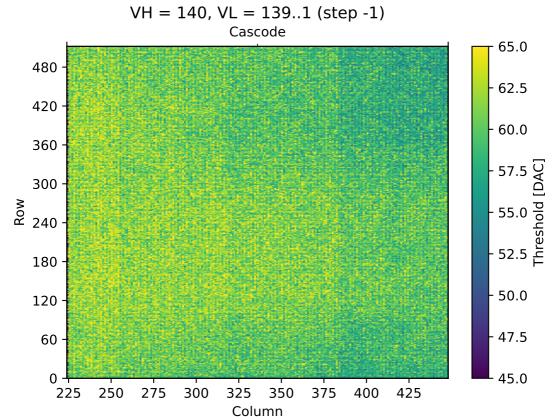
ToT curve fit



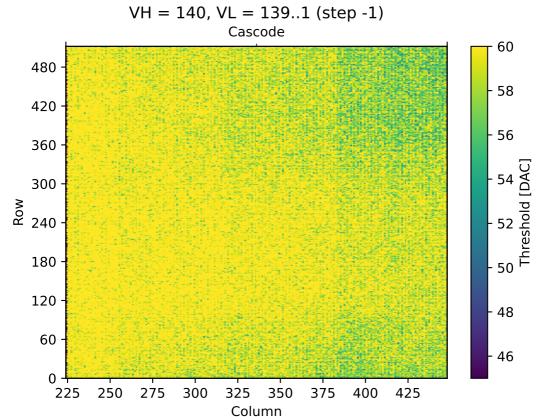
Threshold map VH = 140, VL = 139..1 (step -1)



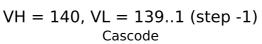
Threshold map

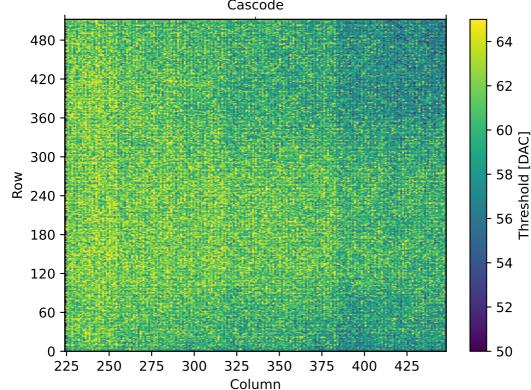


Threshold map

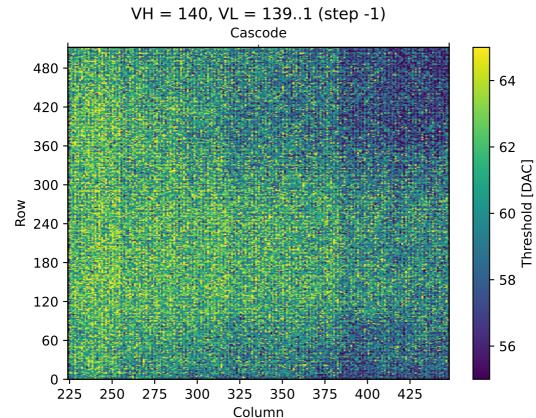


Threshold map



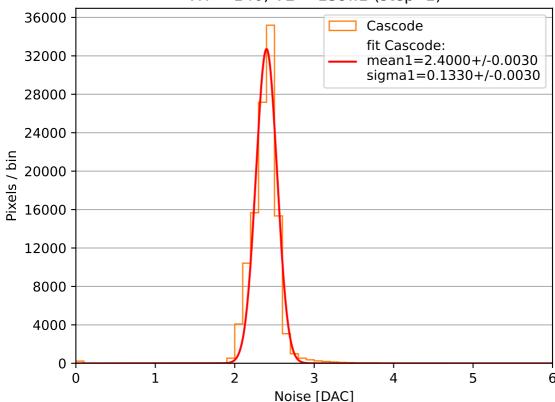


Threshold map

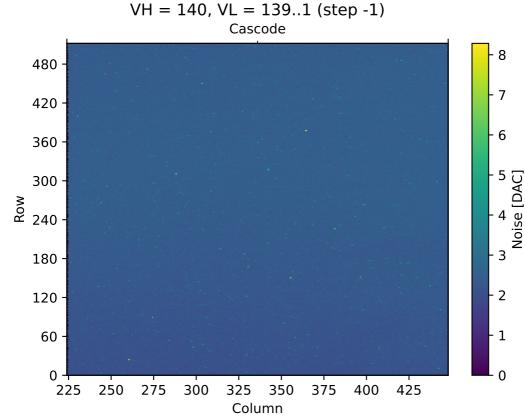


Noise distribution VH = 140, VL = 139..1 (step -1) Cascode 2.39 ± 0.19 oixels / bin 20000 -Noise [DAC]

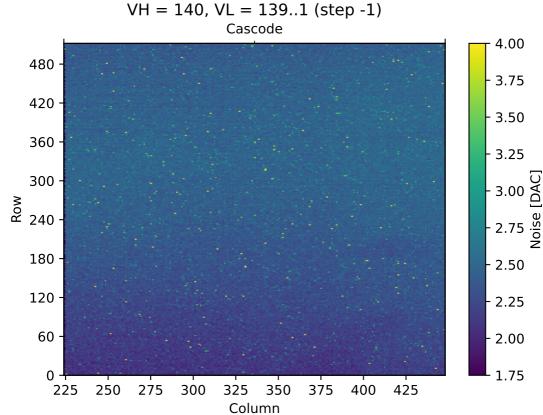
Noise distribution VH = 140, VL = 139..1 (step -1)



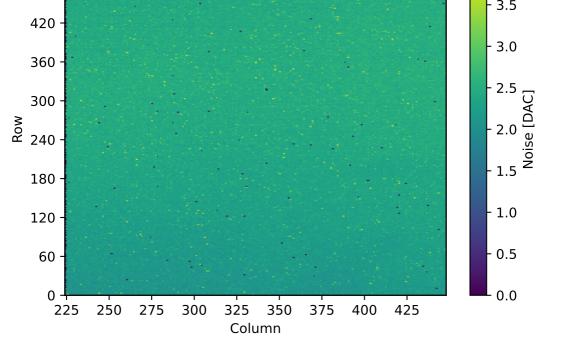
Noise map



Noise map



Noise map VH = 140, VL = 139..1 (step -1) Cascode 3.5 3.0 2.5 - 1.0



480

Noise (width of s-curve slope) distribution

VH = 140, VL = 139..1 (step -1)

