```
/mnt/c/Users/client/Desktop/tesi/tesi/Analisi/W14R12/threshold scan/all casc/
200/20221011 095548 threshold scan interpreted.h5
                  Chip = W14R12
```

Script version = 7b49663

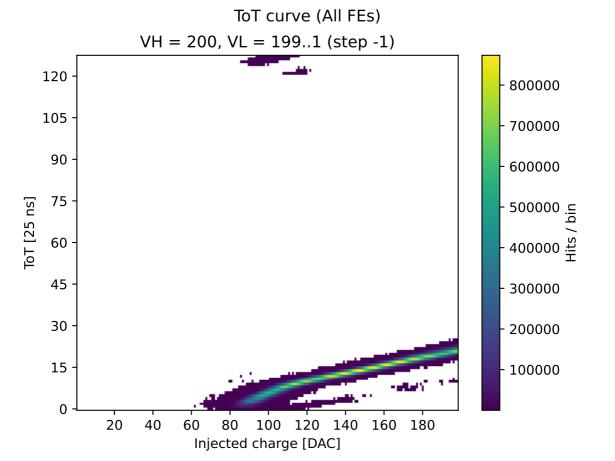
IBIAS = 50, ITHR = 64, ICASN = 0, IDB = 100, ITUNE = 53, VRESET = 143, VCASP = 10093, VCASC = 228, VCLIP = 255, VL = 2, VH = 200, ICOMP = 80, IDEL = 88, IRAM = 50

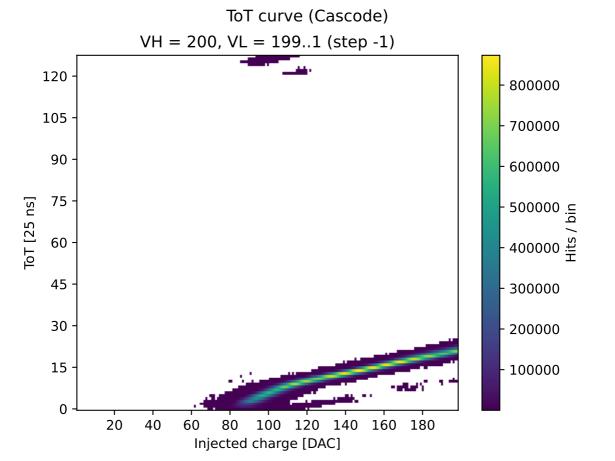
threshold scan start column = 420, stop column = 448, start row = 0, stop row = 512, n injections = 100, VCAL HIGH = 200, VCAL LOW start = 199, VCAL LOW stop = 1, VCAL LOW step = -1



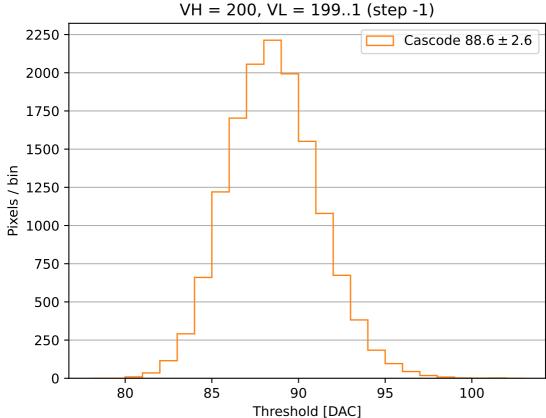
S-Curve (All FEs) VH = 200, VL = 199..1 (step -1) 13500 1.4 12000 1.2 10500 1.0 9000 Occupancy Pixels / bin 8.0 7500 6000 0.6 4500 0.4 3000 0.2 1500 0.0 20 40 60 80 120 140 160 180 100 Injected charge [DAC]

S-Curve (Cascode) VH = 200, VL = 199..1 (step -1) 13500 1.4 12000 1.2 10500 1.0 9000 Occupancy Pixels / bin 8.0 7500 6000 0.6 4500 0.4 3000 0.2 1500 0.0 20 40 60 80 120 160 180 100 140 Injected charge [DAC]



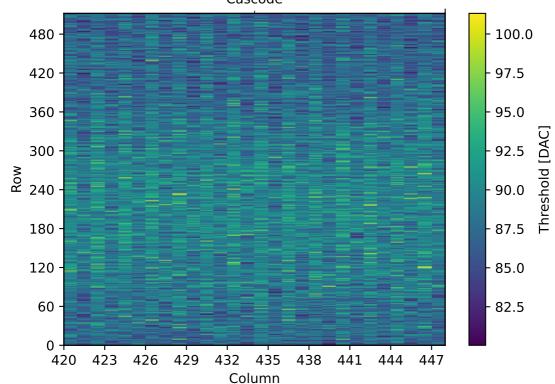


## Threshold distribution

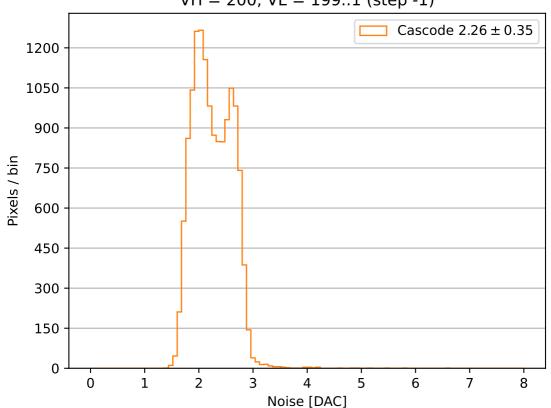


Threshold map

VH = 200, VL = 199..1 (step -1)Cascode

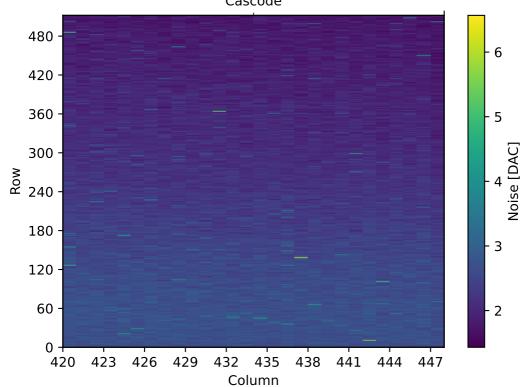


## Noise (width of s-curve slope) distribution VH = 200, VL = 199..1 (step -1)

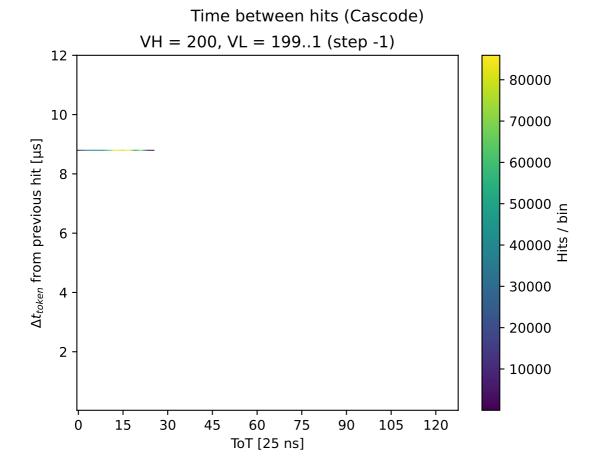


Noise (width of s-curve slope) map

VH = 200, VL = 199..1 (step -1)Cascode



Time between hits (All FEs) VH = 200, VL = 199..1 (step -1)  $\Delta t_{token}$  from previous hit [µs] 40000 Hits / bin ToT [25 ns]



Time between hits (All FEs) VH = 200, VL = 199..1 (step -1) $\Delta t_{token}$  from previous hit [µs] Injected charge [DAC]

