Setup - 27-28/10/2025



Beam current monitored by a picoamperometer, in control room.

<u>Data</u> with converter python script.

Measurement schedule

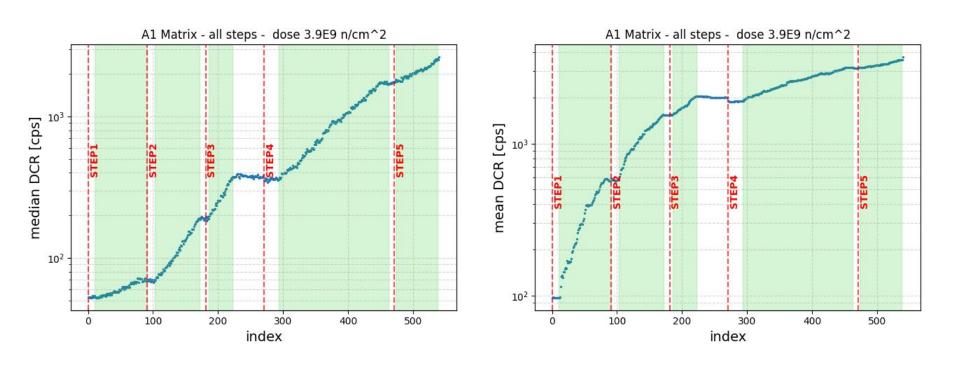
5 irradiation steps

Totale dose of \sim 3.3 n_eq/cm2

- Online DCR measurement during irradiation on A1-A3
- DCR and BD measurements after each steps on A1,A2,A3 and ASIPM
- AP measurement after step 3 (during the night)

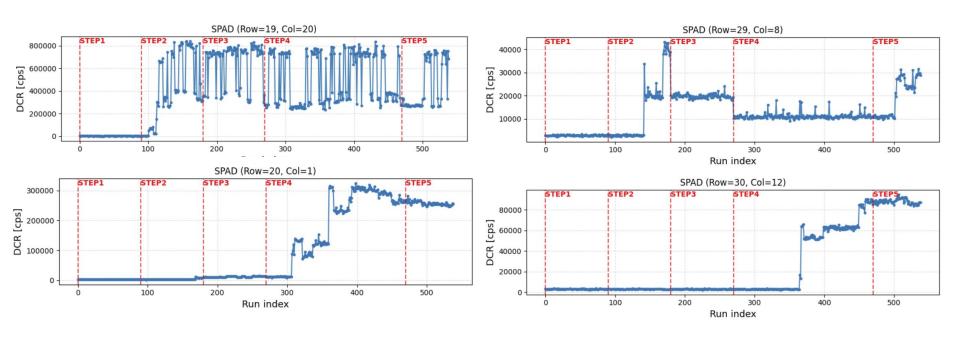
data path:

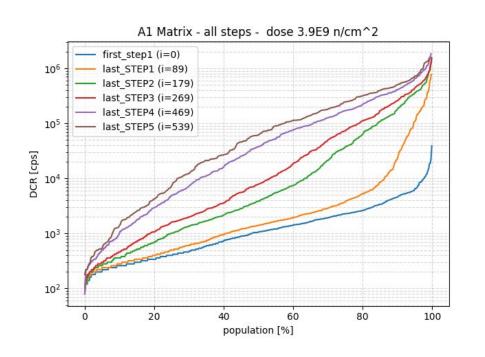
https://drive.google.com/drive/folders/1-p6ODrHnRuqjd49jt-xa6jsXsojUFHX4?usp=sharing

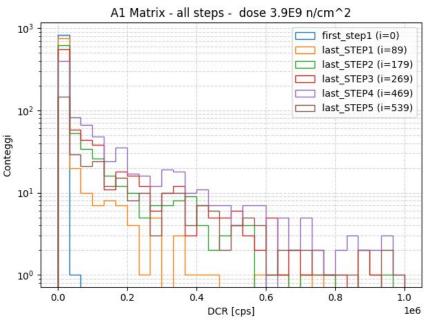


the best we achieved modifying v10 software on the spot

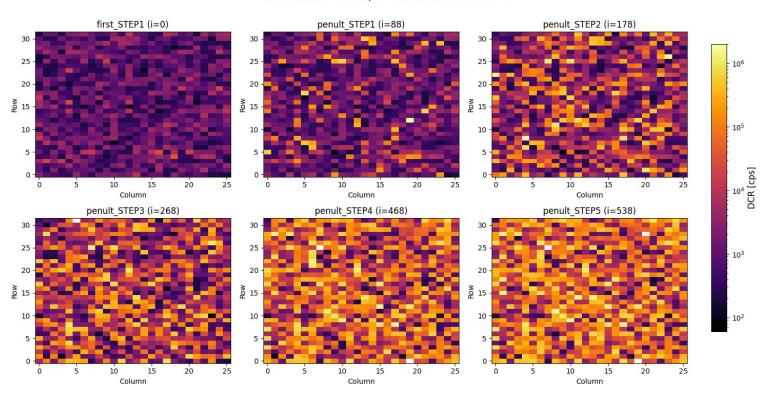
SPAD by SPAD DCR measurement with a sampling rate of \sim 40 s



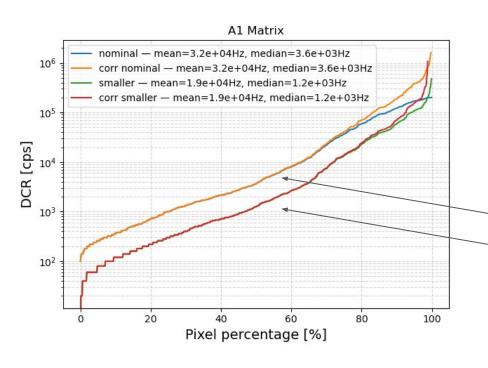




A1 Matrix - all steps - dose 3.9E9 n/cm^2



A1 matrix



Issue:

We take measurement with a shorter small window time to avoid saturation of the 1 bit counter.

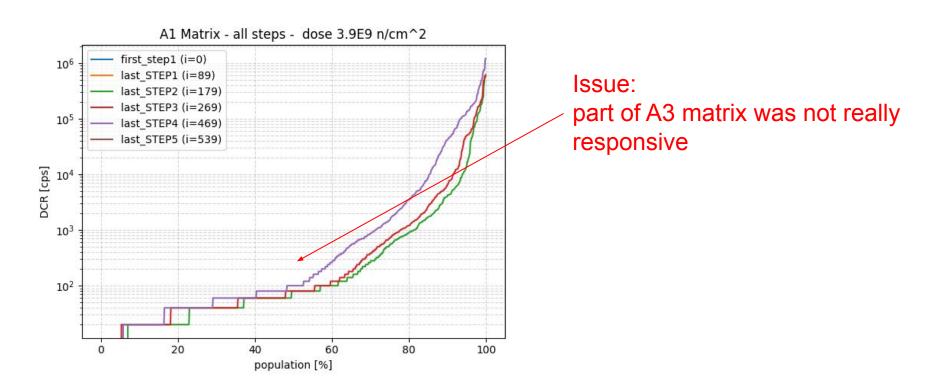
We observed different DCR values in the two measurement conditions:

TIT = 250*10E4

► TIT = 25*10E5

Integration time is the same. DCR should be as well. Hint of dead time?

A3 matrix



<u>backup</u>

A1 matrix

