



Update of the massive testing

Patricia Sanchez-Lucas

25 July 2023



Calendar

July 2023

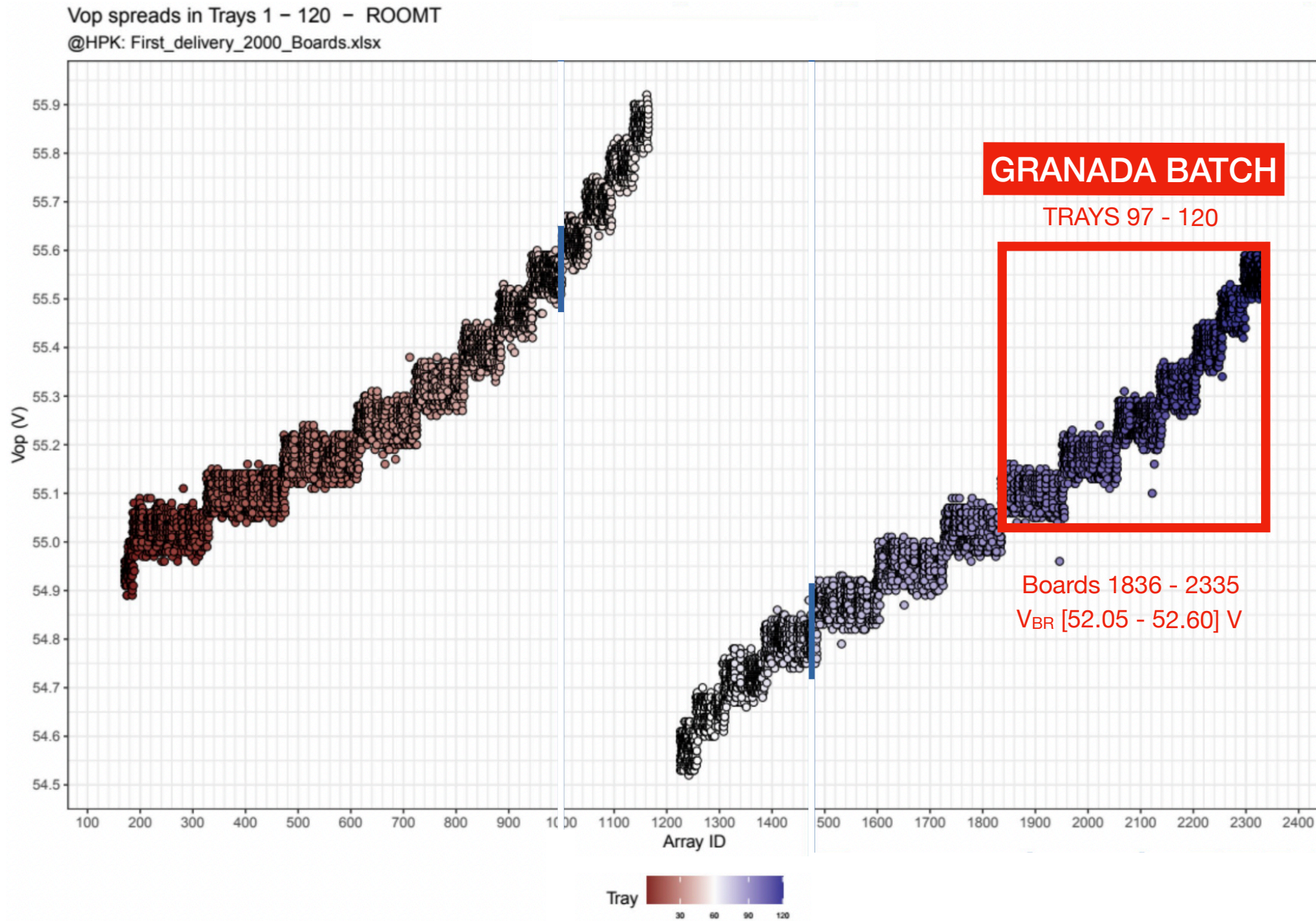
< Today >

Mon	Tue	Wed	Thu	Fri	Sat	Sun
26 ✓ 240 SiPMs	27 ✓ 120 SiPMs	28 ✓ 120 SiPMs	29 ✓ 120 SiPMs	30 ✗ -	1 Jul	2
3 ✗ -	4 ✓ 120 SiPMs	5 ✓ 240 SiPMs	6 ✓ 240 SiPMs	7 ✗ -	8	9
10 ✓ 120 SiPMs	11 ✓ 120 SiPMs	12 ✓ 120 SiPMs	13 ✓ 120 SiPMs	14 ✓ 120 SiPMs	15	16
17 ✓ 120 SiPMs	18 ✓ 120 SiPMs	19 ✓ 120 SiPMs	20 ✓ 120 SiPMs	21 ✓ 120 SiPMs	22 Finish 1st box	23
24 Maintenance	25 Maintenance	26 Maintenance	27 Maintenance	28 Maintenance	29	30

Despite the problems with the humidity within the black box and the extreme heat, we managed to test the first box

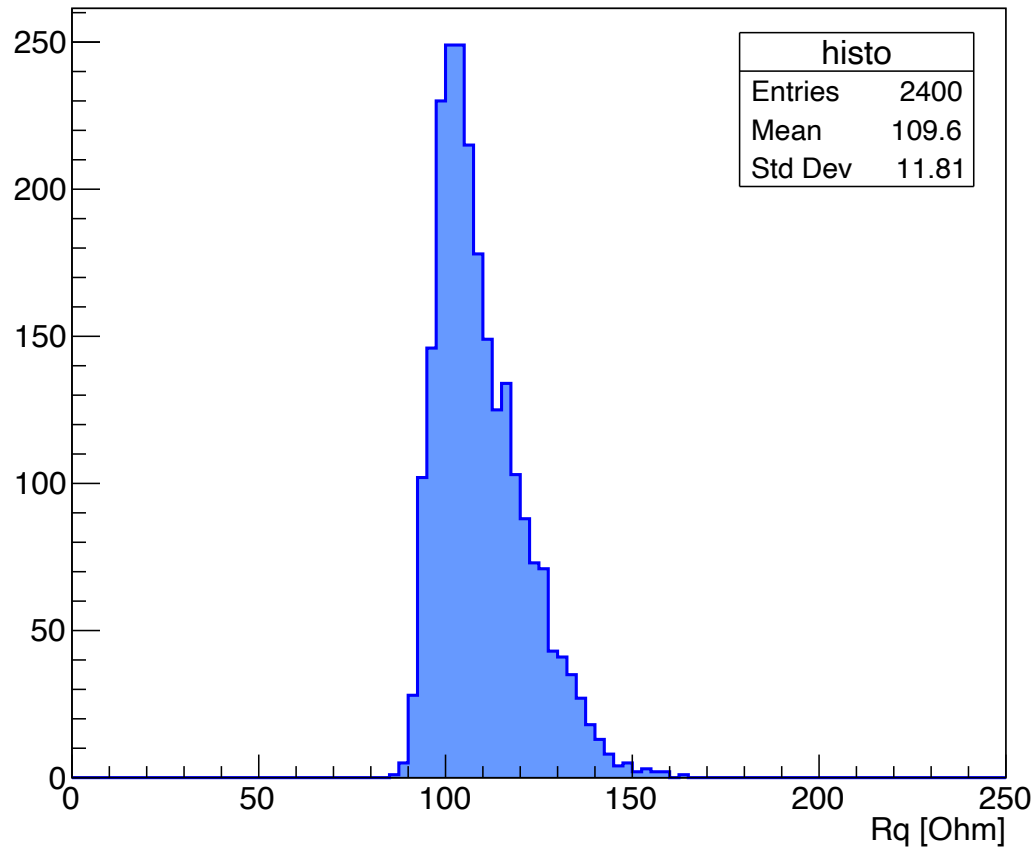
Trays [97 - 120]

SiPM Batch

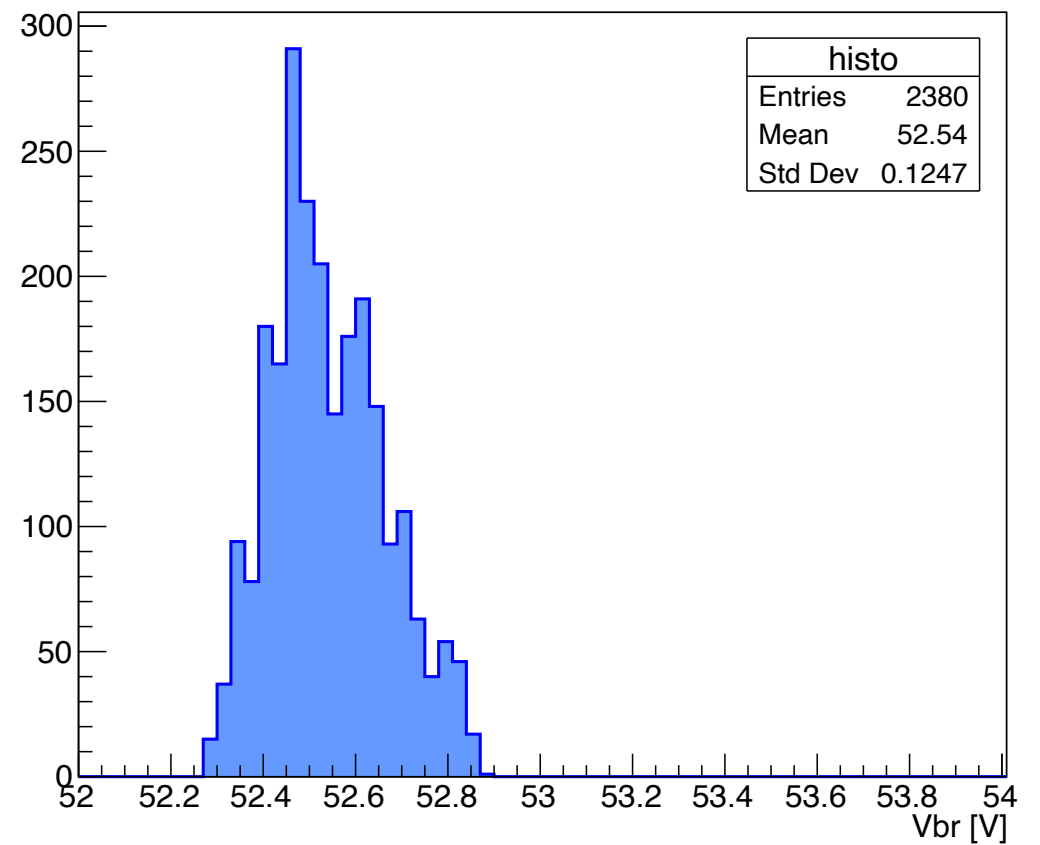


IV CURVES ROOM TEMPERATURE

FORWARD



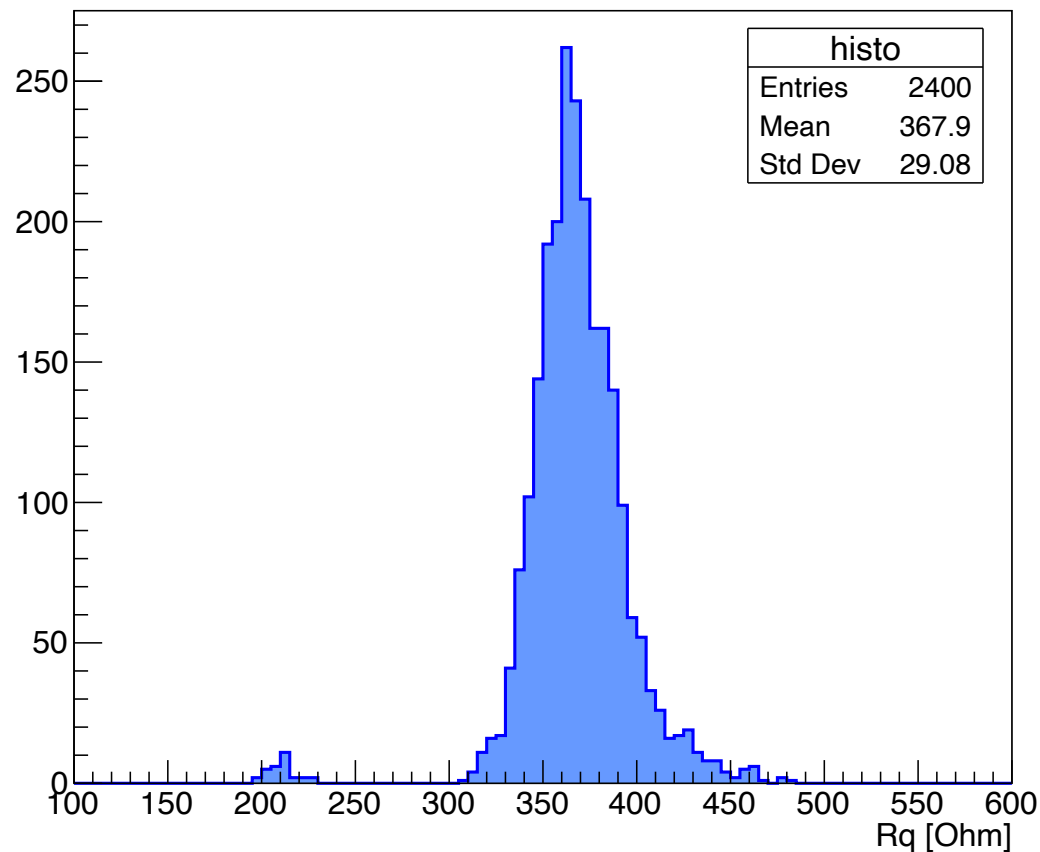
REVERSE



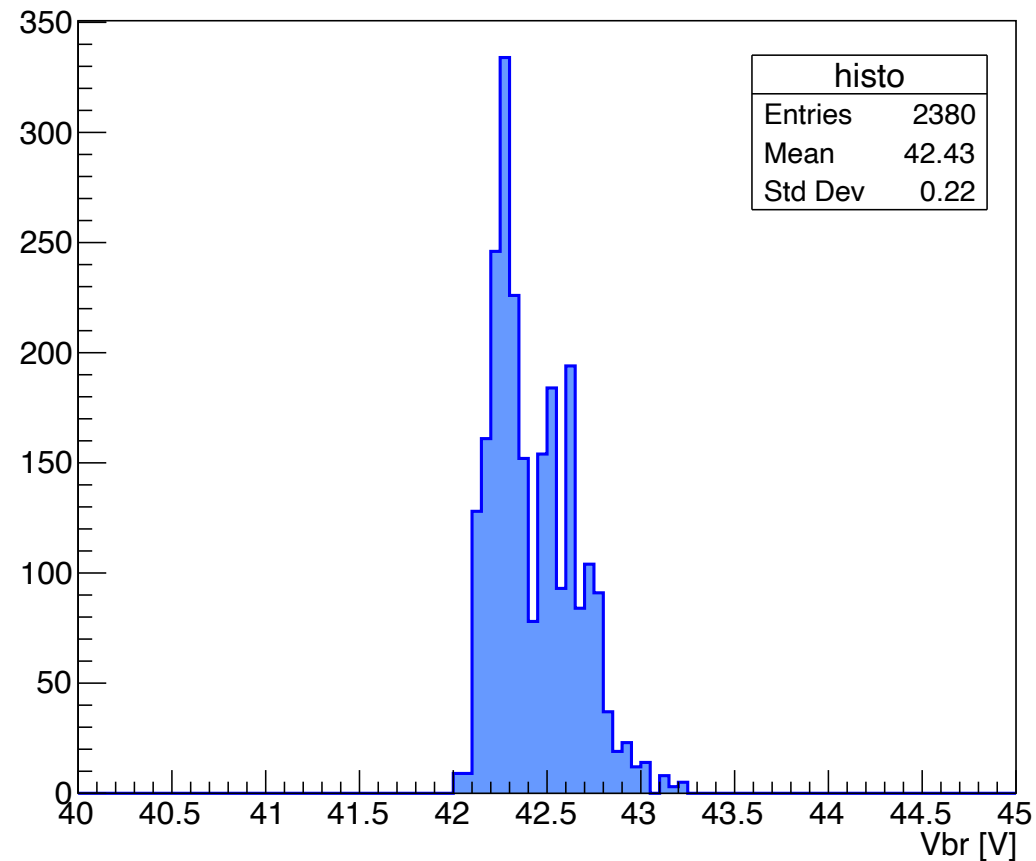
Room temperature values within the specs

IV CURVES LN2 (FIRST CYCLE)

FORWARD



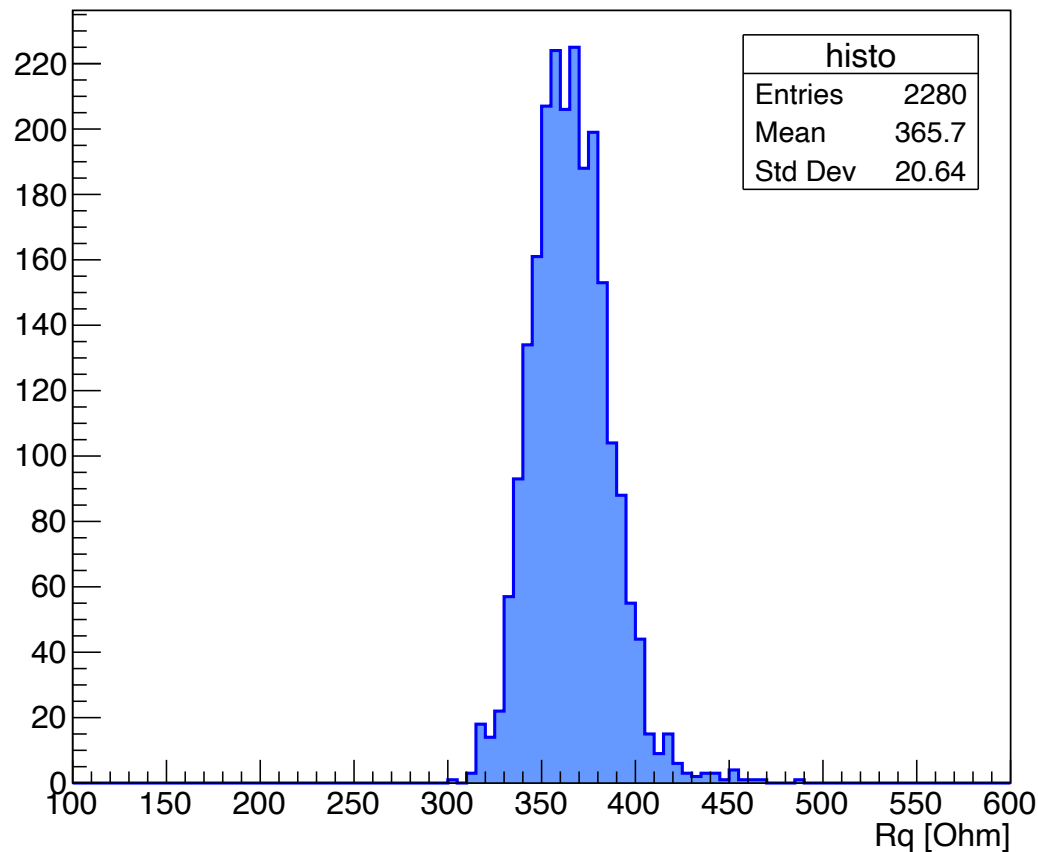
REVERSE



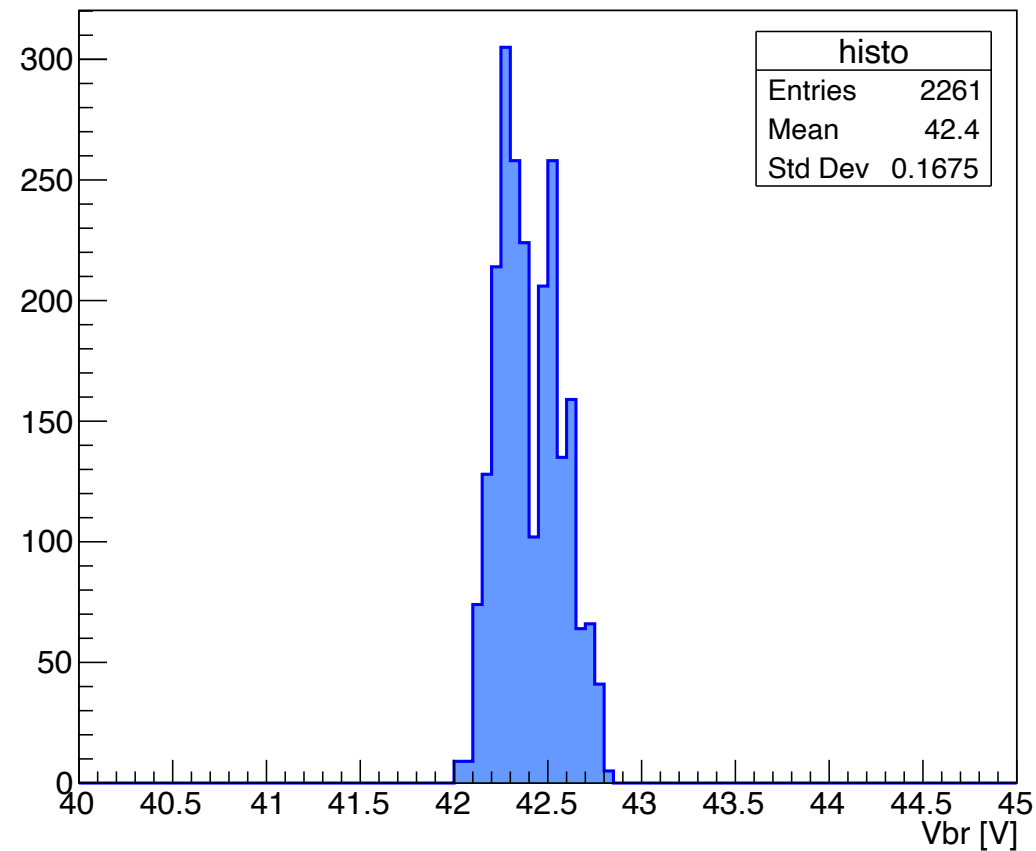
The small population of lower Rq values was caused because of humidity in the connector of one board

IV CURVES LN2 (THIRD CYCLE)

FORWARD



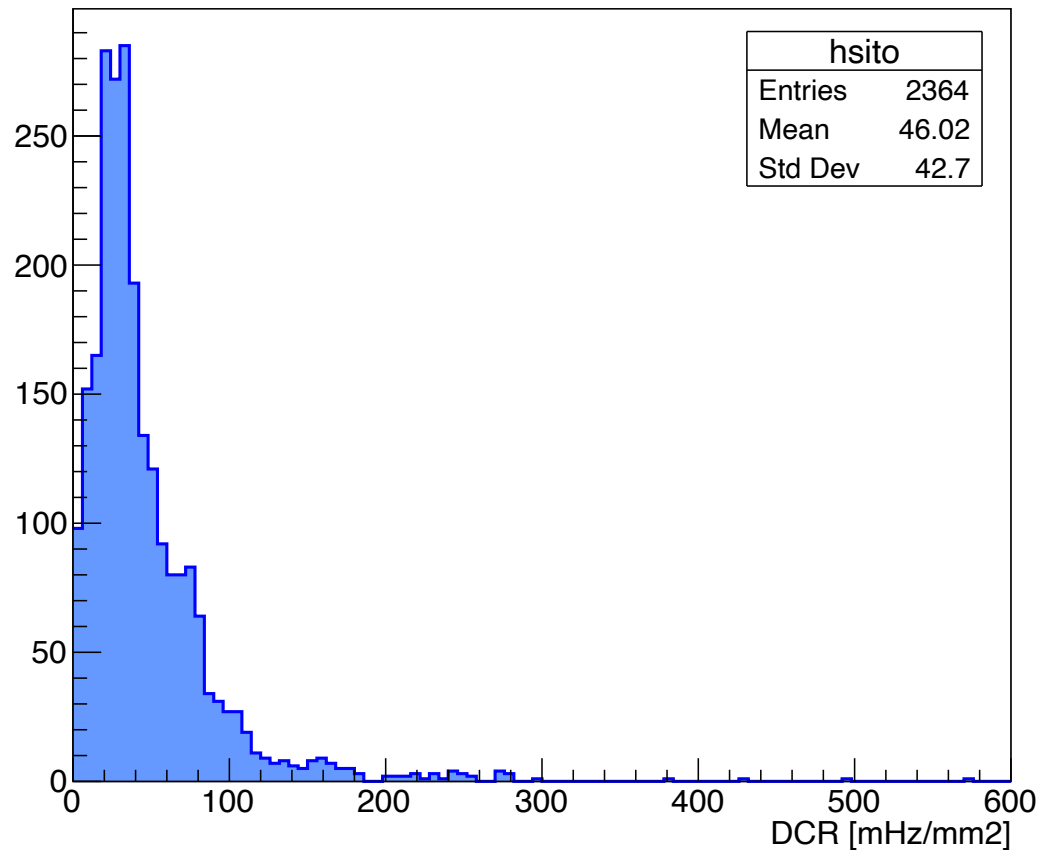
REVERSE



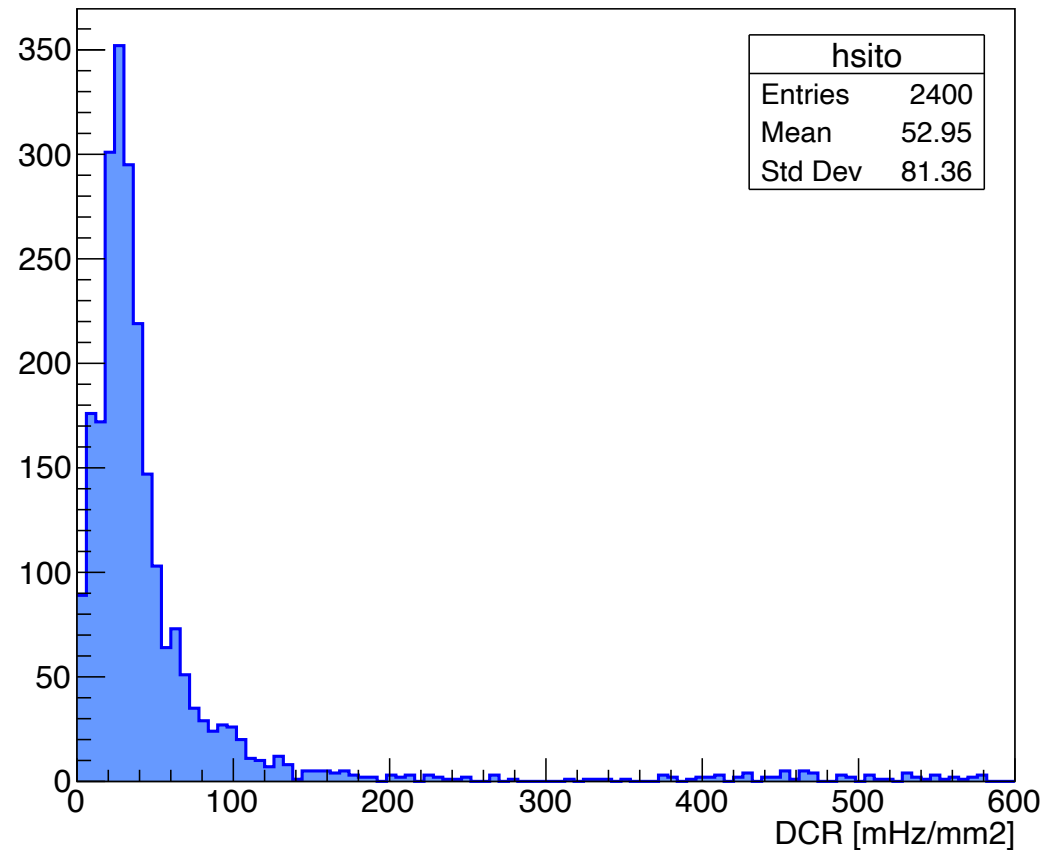
Values of the third cycle are compatible with the values of the first one

DCR MEASUREMENTS

FIRST CYCLE



THIRD CYCLE



The large DCR values are caused by some light entering the black box.
There is a correlation with the position of the SiPMs with high rate