

CACTUS Milano-Bicocca Status

CACTUS@MILANO-BICOCCA

DUNE Photosensor WG Meeting (DUNE-SP-PDS)

February 13th, 2024



- We are testing the fourth box:

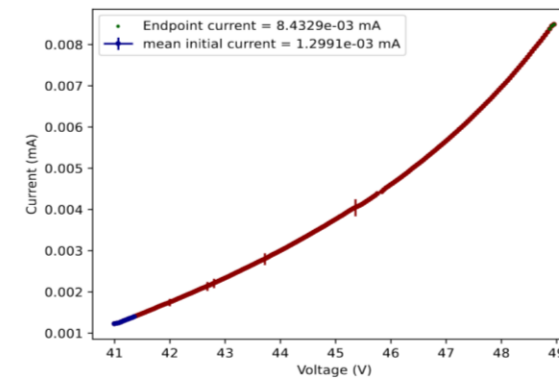
Delivery	Box	Tray	Status
2	9	1-24	Completed
2	12	73-96	Completed
3	14	1-24	Completed
4	20	49-72	In progress

A total of 3 noisy SiPMs were found in the box #14. These were identified through the extended IV curves and the high DCR value. Although it presented an anomalous IV reverse curve.

DCR result

68 002	0000004365	2	2	1	80	18.52
69 002	0000004365	1	2	0	167	38.66
70 002	0000004376	1	2	24	329	76.16
71 002	0000004376	2	2	25	507	117.36
72 002	0000004376	3	2	26	664	153.7
73 002	0000004376	4	2	27	2291	530.32
74 002	0000004376	5	2	28	1746885	404371.53
75 002	0000004376	6	2	29	2805	649.31
76 002	0000004373	1	2	18	148	34.26
77 002	0000004373	2	2	19	244	56.48
78 002	0000004370	3	2	14	373	86.34
79 002	0000004370	2	2	13	394	91.2
80 002	0000004370	1	2	12	45	10.42

Extended IV curve of ARDUINO 2, SiPM 28



- The database tables are being generated from CACTUS and have been uploaded into the test component (Granada and Milano Bicocca).
- We are still waiting for the new version of the script. As soon as it is ready, we will perform some tests with our tables.



Hardware DB

BULK ADD... ADD NEW... FILTER...

Id	Part_id	Serial_number	Manufacturer_id	Batch_id	Creator	Created
150878	Z00100100003-00997	14138	Hamamatsu Photonics		Patricia Sanchez Lucas	2024-02-02 08:06:38UTC-06:00
150877	Z00100100003-00996	14137	Hamamatsu Photonics		Patricia Sanchez Lucas	2024-02-02 08:06:37UTC-06:00
150876	Z00100100003-00995	14135	Hamamatsu Photonics		Patricia Sanchez Lucas	2024-02-02 08:06:37UTC-06:00
150875	Z00100100003-00994	14134	Hamamatsu Photonics		Patricia Sanchez Lucas	2024-02-02 08:06:36UTC-06:00