Status Setup CACTUS Milano-Bicocca

CACTUS@MILANO-BICOCCA
DUNE Photosensor WG Meeting (DUNE-SP-PDS)
January 16th, 2024











We are testing the <u>third box</u>:

Delivery	Вох	Tray	Status
2	9	1-24	Completed
2	12	73-96	Completed
3	14	1-24	In progress

We find a noisy SiPM in the <u>third box</u>, on <u>tray #2</u>. It was identified through the extended IV curves and the high DCR value. Although it presented an anomalous reverse curve.

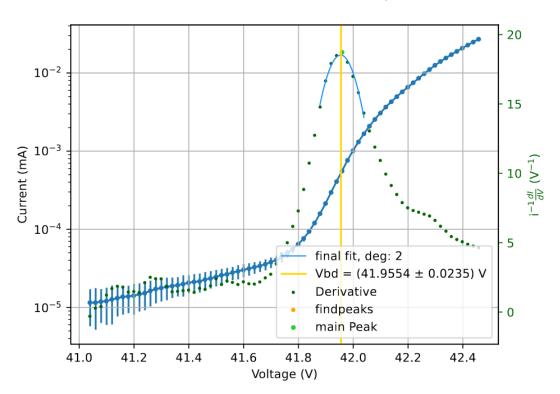
DCR result

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	174688	35	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	
	0000004313	_	_				
78 002	0000004370	3	2	14	373	86.34	
		_	_			86.34 91.2	
78 002	0000004370	3	2	14	373		



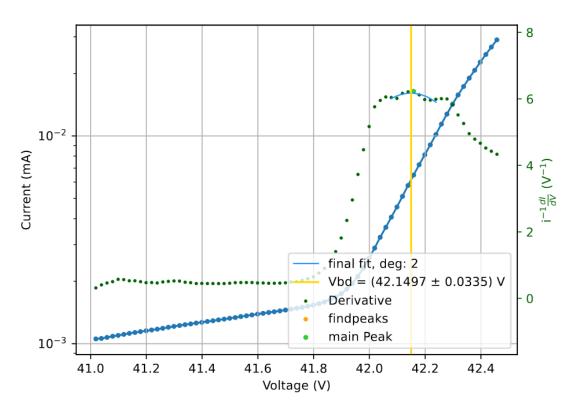
*Usual reverse curve obtained on the other boards.

Reverse IV curve of ARDUINO 2, SiPM 27



*Anomalous reverse curve.

Reverse IV curve of ARDUINO 2, SiPM 28

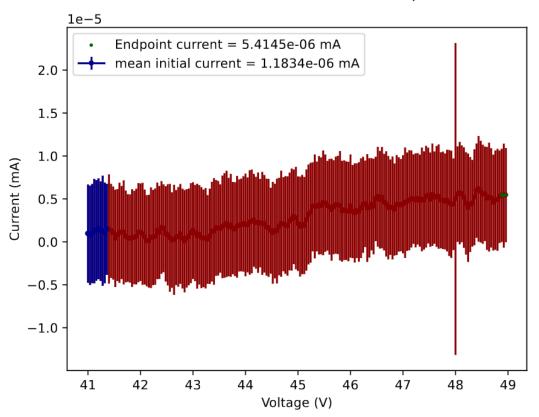






*Usual extended IV curve obtained on the other boards.

Extended IV curve of ARDUINO 2, SiPM 27



*Anomalous Extended IV curve.

Extended IV curve of ARDUINO 2, SiPM 28

