CACTUS Milano-Bicocca Status

CACTUS@MILANO-BICOCCA
DUNE Photosensor WG Meeting (DUNE-SP-PDS)
December 17th, 2024











We finished the sixth and last INFN box (Italy)

Box INFN									
Delivery	Вох	Tray	Status						
1	3	49-72	Completed						
2	4	1-24	Completed						
3	9	49-72	Completed						
5	14	25-48	Completed						
5	13	1-24	Completed						
7	23	49-72	Completed						

- Room temperature results in agreement with Hamamatsu data.
- The results are compatible in both cycles.
- 1 noisy SiPM with high DCR and anomalous extended IV was found.





• We checked 3 Boards that were indicated by Praga in the spreadsheet:

Delivery	Box#	Trays	Boards/Box	TX Date	То	Rx Site	Tracking #
1	1	1-24	400	18/06/24	Prague	20/06/24	Fedex 776914202301
1	2	25-48	400	18/06/24	Prague	20/06/24	Fedex 776914202301

Tray 34, Board 11422- ONLY anomalous IV ext; High DCR and Anomalous IV extended.

Tray 32, Board 12422 - high DCR - NOISY Cactus channel; DCR less than 200 counts

Tray 33, Board 12459 - high DCR - NOISY Cactus channel DCR less than 200 counts



- In Milan, the tables of the Spanish box #20 were uploaded to the database.
- With Granada we found that tables should not contain blank spaces, especially key values.
 Some data will be ignored by the script and not uploaded into the database.

002395

							002395	5	2	28	93.93	5.64	
							002395	6	2	29	99.40	5.96	
Fwd Fwd Fwd Fwd Fwd Fwd Fwd Fwd Fwd Fwd	ROOMT	Hamamal Rq	4	108,51	6,51	101,24	002396	1	(3	Θ	NaN	NaN	
Fwd	ROOMT	Hamama) Rq	5	100,89	6,05		002396	2	3	1	NaN	NaN	
Fwd	ROOMT	Hamamal Rq	0	99,98	6	93,7967	ARDU 0						
Fwd	ROOMT	Hamamal Rg	1				MEAN = 93.34	4					
Fwd	ROOMT ROOMT ROOMT	Hamamal Rg	2				ST. DEV = 2.08						
Fwd	ROOMT ROOMT ROOMT ROOMT	Hamamal Rg	3				ARDU 1						
Fwd	ROOMT	Hamama) Rq	4				MEAN = 95.10						
Fwd	ROOMT	Hamamat Rg	5				ST. DEV = 4	. 69					
Fwd	ROOMT	Hamama) Rq	0	94,73	5,68	95,2167	ARDU 2						
Fwd	ROOMT	Hamamal Rg	1	92,55	5,55	95,2167	MEAN = 97.90						
Fwd	ROOMT	Hamama) Rq	2	99,39	5,96	95,2167	ST. DEV = 7.33						
Fwd	ROOMT	Hamama) Rq	3	95,72	5,74	95,2167	ARDU 2						
Fwd	ROOMT	Hamama) Rq	4	95,86	5,75	95,2167	MEAN = NaN						
	000000		-	'	-	-	ST. DEV = Na						
							MEAN (Total)						
							ST. DEV (Tot	ta⊥) = NaN					

However, there are still other reasons that we are trying to understand.

