

# Status of HPK SiPM: CACTUS Milano-Bicocca

CACTUS@MILANO-BICOCCA

DUNE Photosensor WG Meeting (DUNE-SP-PDS)

September 17, 2024

- We are testing the **second Hamamatsu INFN box** (Italian lot)

Box Ciemat			
Delivery	Box	Tray	Status
2	9	1-24	Completed
2	12	73-96	Completed
3	14	1-24	Completed
4	20	49-72	Completed
4	21	73-96	Completed
6	28	49-72	Completed
9	38	1-24	Completed
10	42	1-24	Completed

Shipped to Ciemat

Box INFN			
Delivery	Box	Tray	Status
1	3	49-72	Completed
2	4	1-24	In progress

- We have not found any noisy SiPMs in the second box.

- CACTUS data is ready to be uploaded to the production version of DUNE HWDB (script and data tables), some of them have been uploaded to the development version.
- However, we do not have a SiPM Board component created in the production version to upload our data.
- It is required to create inside the production version:
  - \* The system: "FD1-HD Photon Detection System",
  - \* The subsystem: "X-ARAPUCA Module" ,
  - \* Our component: "SIPM board" (Our data goes here).

**- Again, every DUNE part has an identifier, this is its PID.**

D/I/L/P	001-999	001-999	00001-99999	-	00001-99999	-	AA-ZZ	001-999	-	00-99	00-99	001-999
Project	System ID	Subsystem ID	Component Type ID	Dash	Item Number	Dash	Country of Origin	Responsible Institution ID	Dash	Detector ID	Final Destination	Intermediate Destination
F	F	F	F		F		F	F		M	M	M

- We will wait for the global schema of our system to be completed and approved.
- Propose to continue uploading our data in the development version.