

Sandro Geminiani SiPM4electronics meeting - 11/02/2025



Experimental Setup







Loss of light





Given a SiPM bias of 38.7 V (0V overvoltage), different modes were tested:

- 1. VLDB+ power on.
- 2. Raspberry PI power on.
- 3. lpGBT configured for 10 Gb/s of bandwidth using only one group.
- 4. lpGBT configured for 5 Gb/s of bandwidth using only one group (other configurations were tested).
- 5. Chip reset.
- 6. Raspberry PI power off.
- 7. VLDB+ power off.

Using this naive VTRx+ covering we achieved a SiPM signal of $\sim 430 \ nA!$



Considering different covering







New Setup





Covering the VTRx+ and almost all the fiber : Maximum SiPM sig = 8 nA !