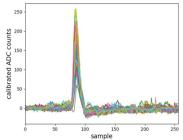
## Quality control tests on the new front-end electronics for the Schwarzschild-Couder Telescope

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An experimental setup has been devised to test about 750 SMART, which will be used to equip the full camera of the prototype SCT. Each SMART was tested for proper operation in response to a laser pulse. In this contribution we present a detailed scheme of the test bench and the first results obtained on the quality control measurements.



Average waveform fit: Gaussian peak + 125 exponential tail 75

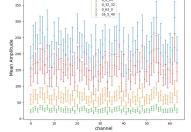
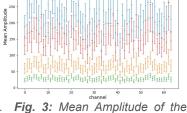


Fig. 1: 100 acquired waveforms.

Fig. 2: Mean waveform and fits.

## **Summary:**

- **SMART**: SiPM Multichannel ASIC for high Resolutions cherenkov Telescope.
- Test bench for SMART;
- Quality control test;
- Results analysis.



mean waveform for 4 different configurations.





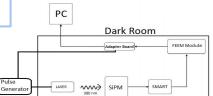


Fig. 4: Test bench used for the tests.

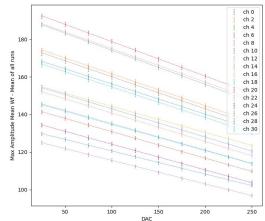


Fig. 5: Max amplitude of the mean waveform for different SiPM bias (DAC).