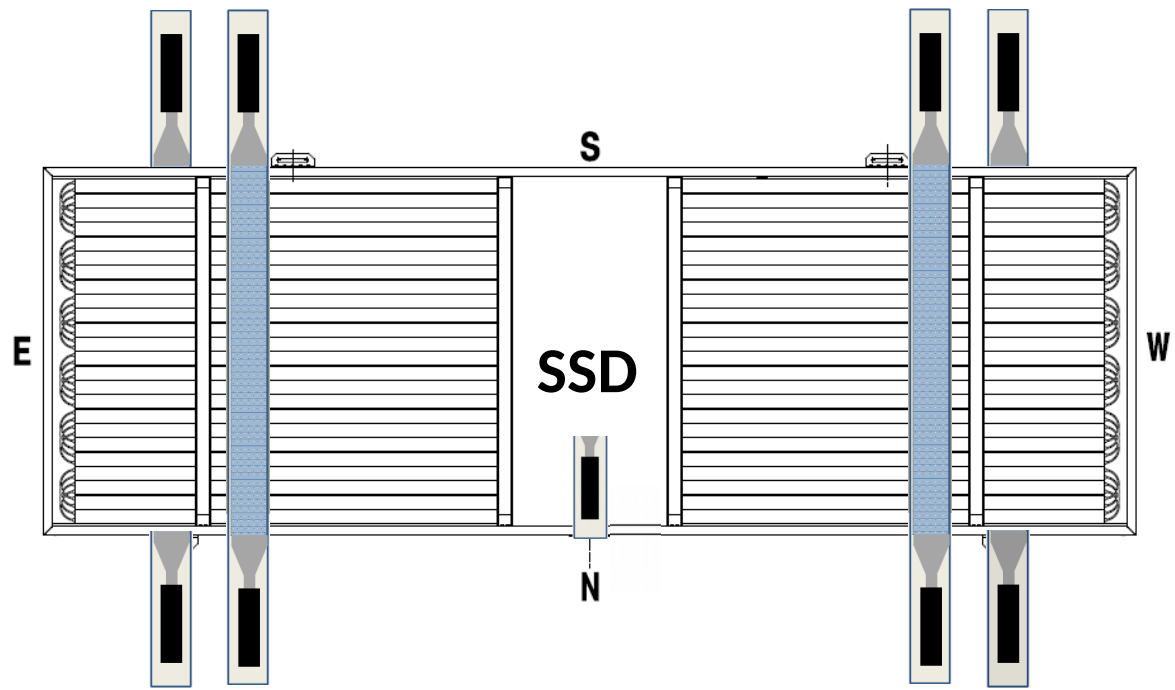


SSDs' Tests Procedure at LPSC

Motivations

- Scintillator boards with PMTs available to us :
 - dimensions : 13.5 cm x 150 cm x 2 cm.
 - covers the module's width.
 - wedged shaped light guides.
- Boards on top removable,
 - To install and remove the module.



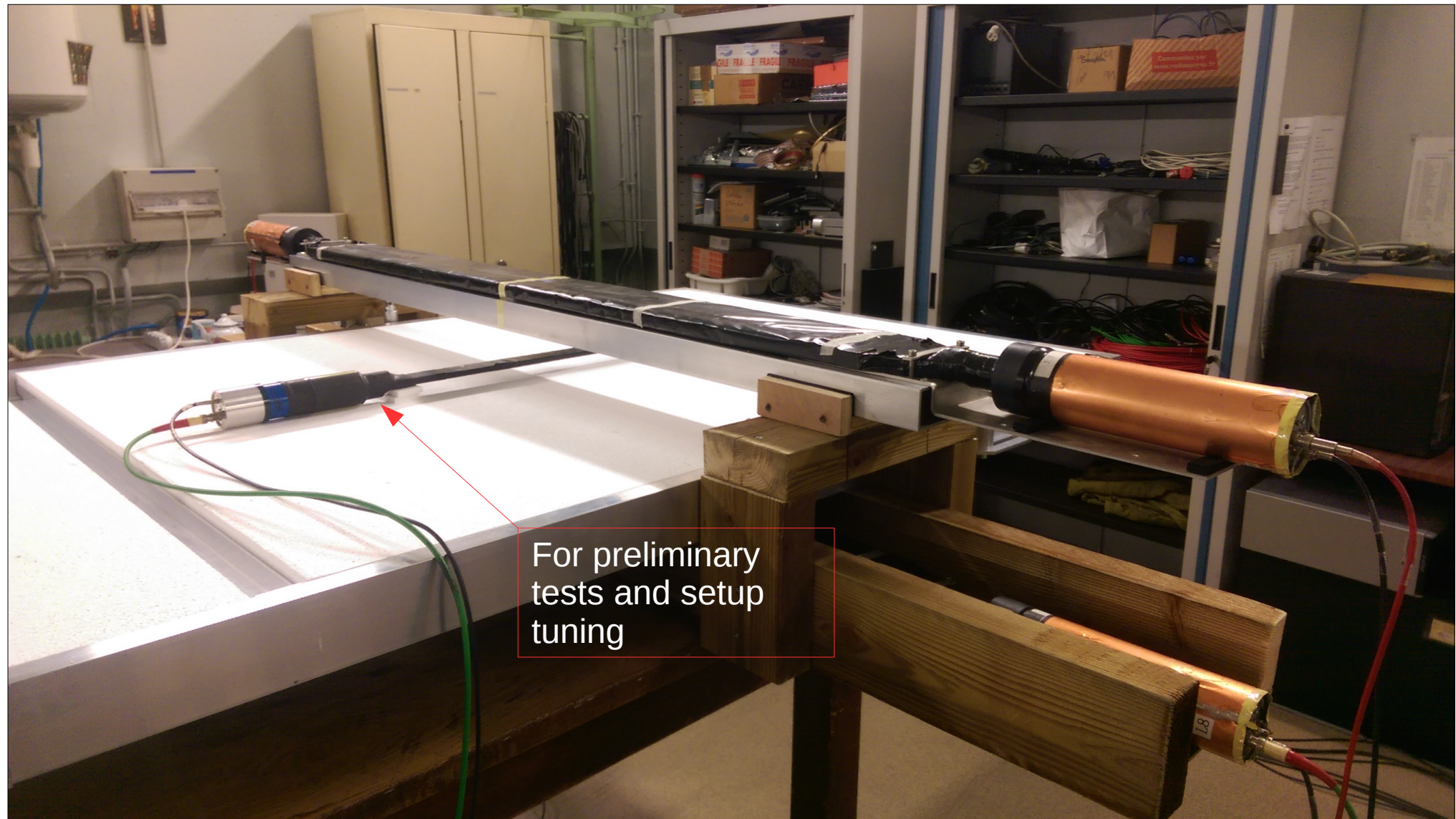
Setup - Tests



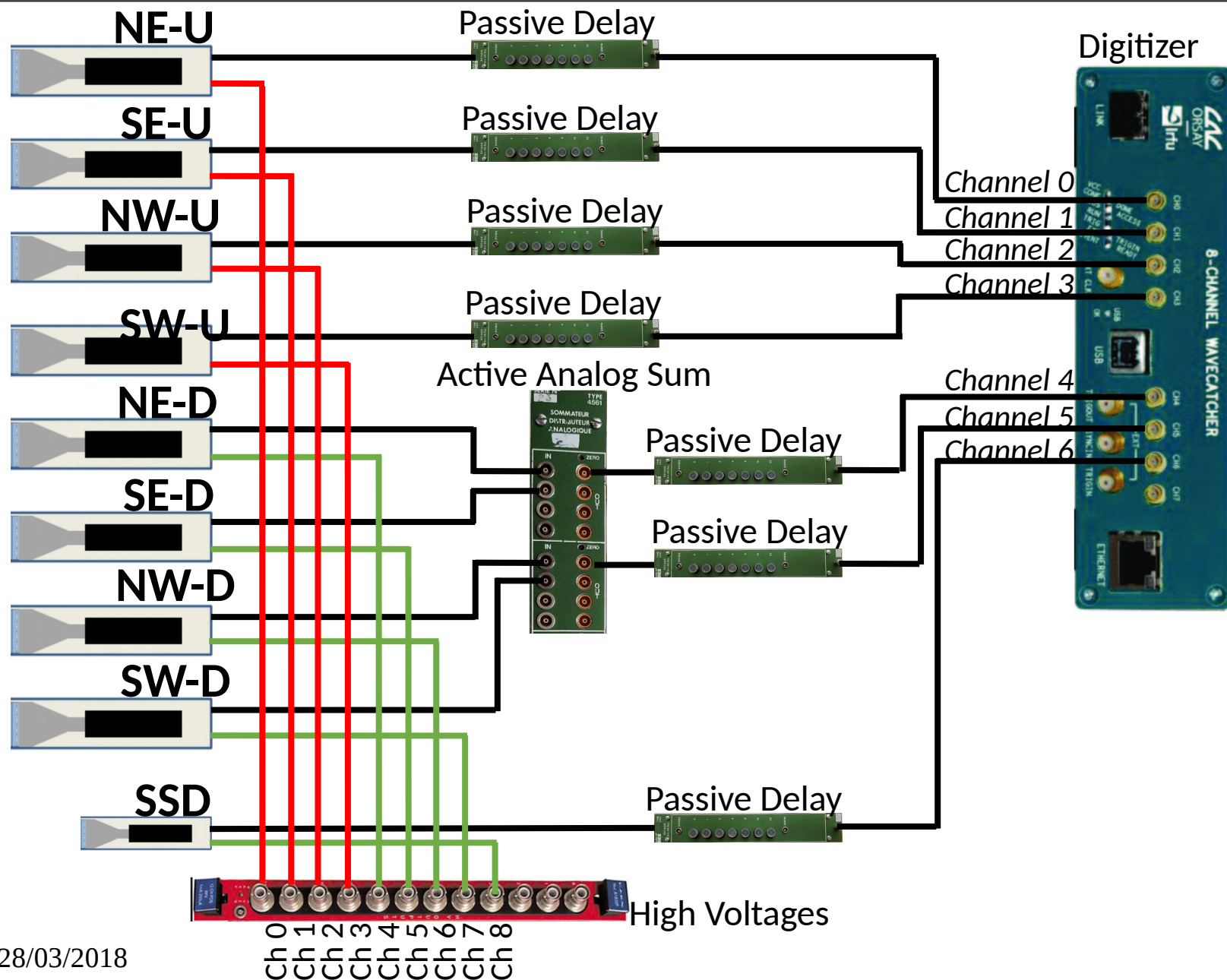
28/03/2018

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Setup - Tests

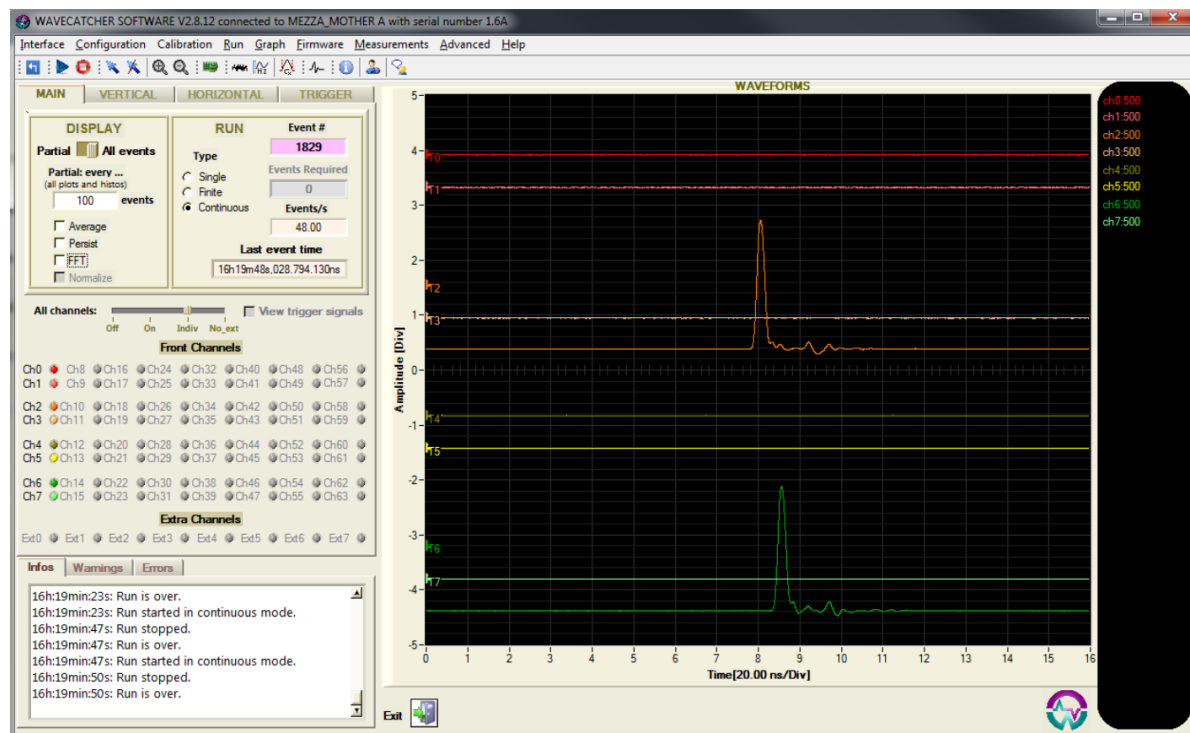


Electronics/Wavecatcher

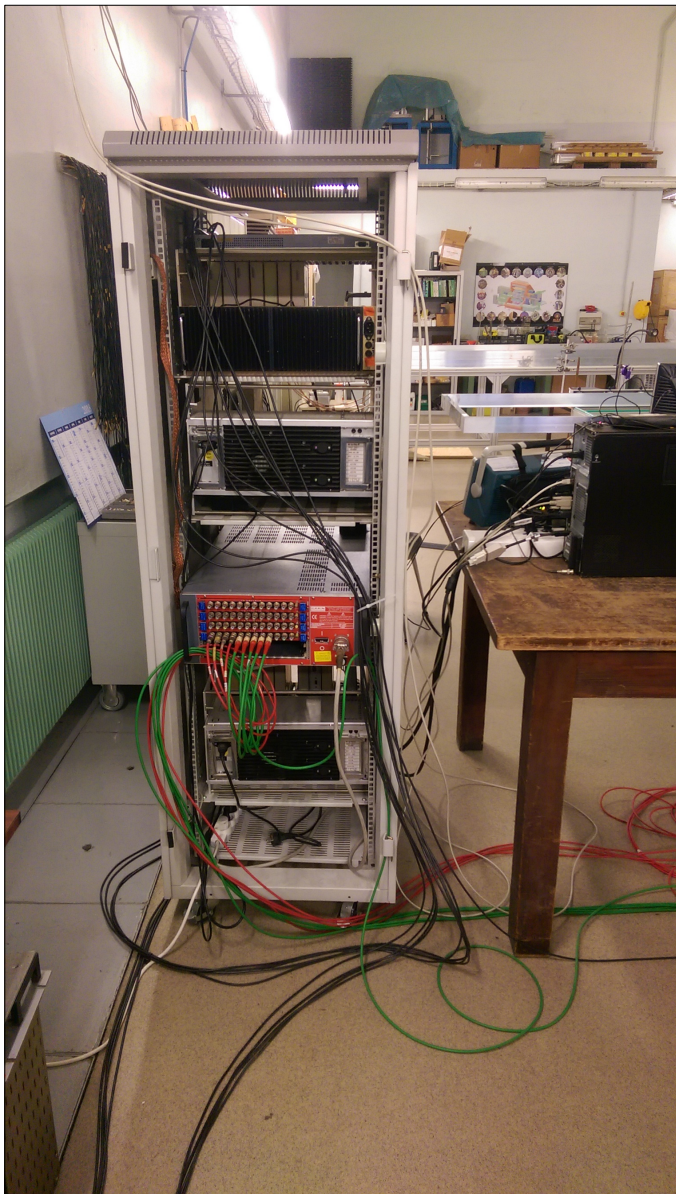


Electronics/Wavecatcher

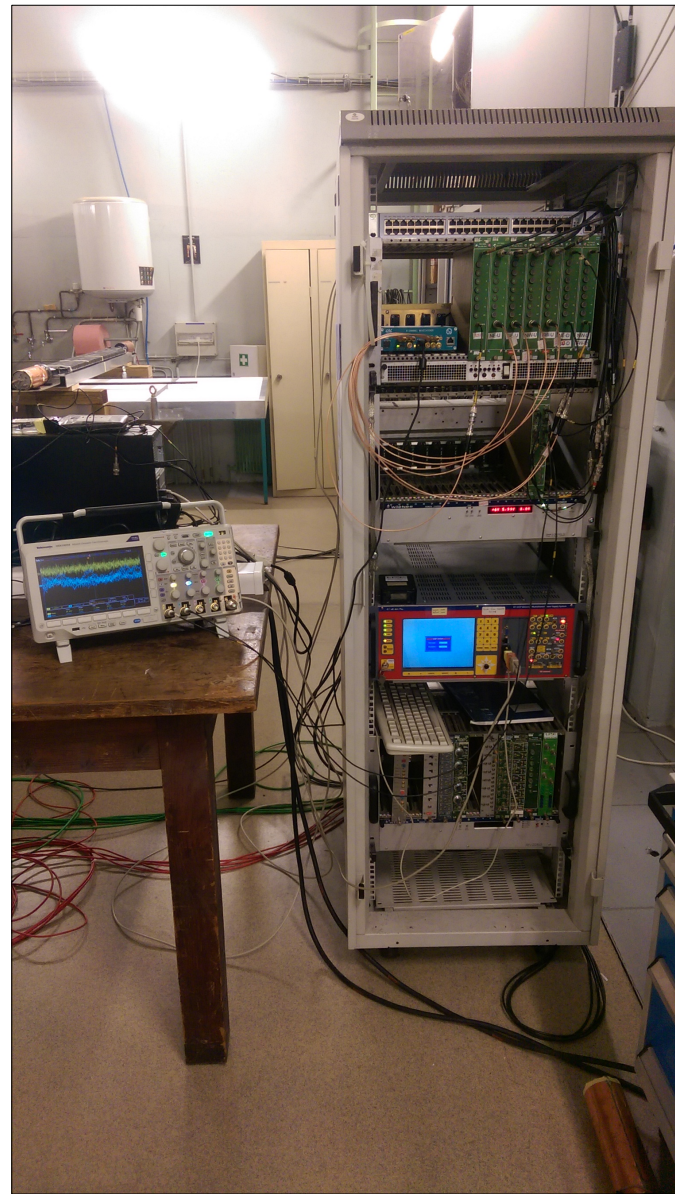
- WaveCatcher : 8 channels (2x4 channels mezzanines) :
 - SAMLONG analog memory chips.
 - Sampling : 400 MS/s – 3.2 GS/s over 12 bits.
 - Signal bandwidth : 500 MHz.
 - Circular Buffer : 1024 cells.



Setup - Electronics



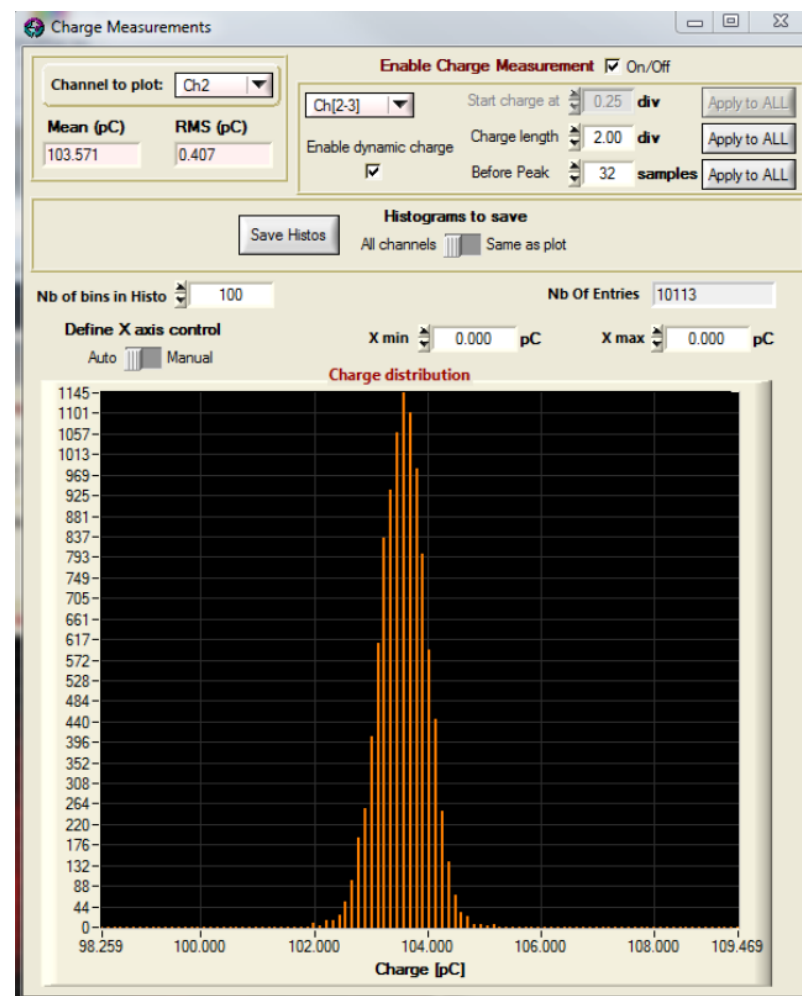
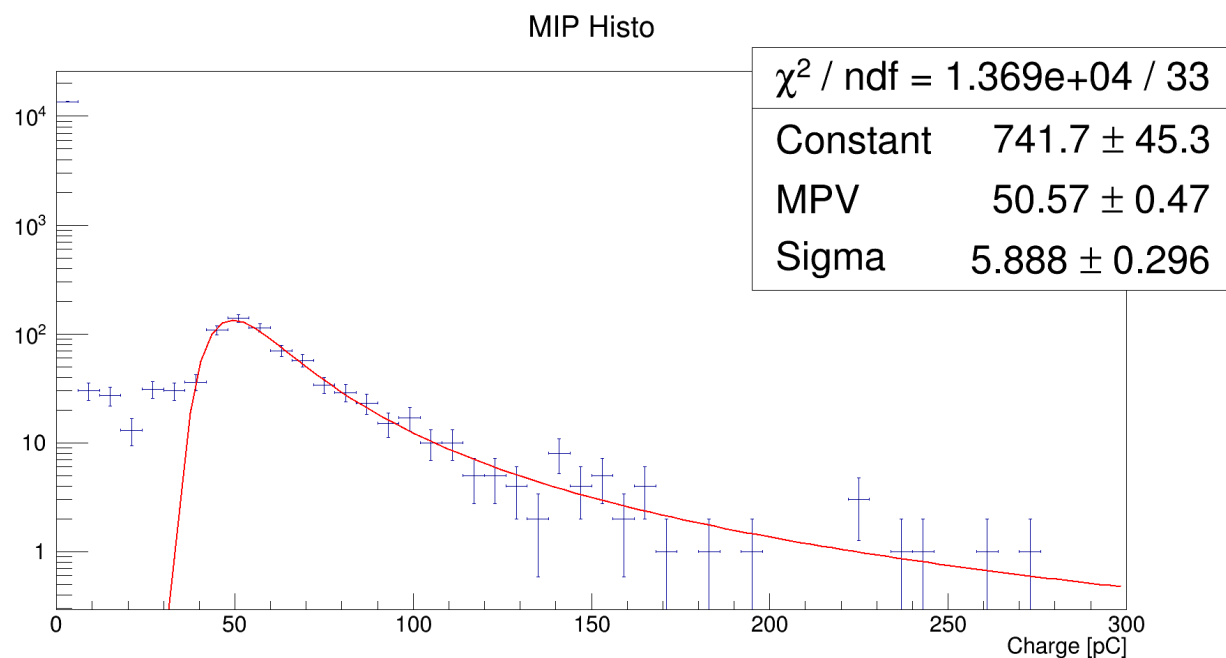
28/03/2018



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Acquisition

- Trigger : Up/Down coincidence.
- Real-time measurements and histograms (baseline, peak, charge, ...) with the WaveCatcher's software.
- Offline analysis.



Light Tightness

- Real time test.
- Offline analysis :
 - pre-trigger data.

