

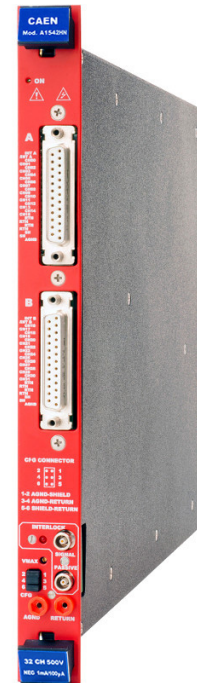
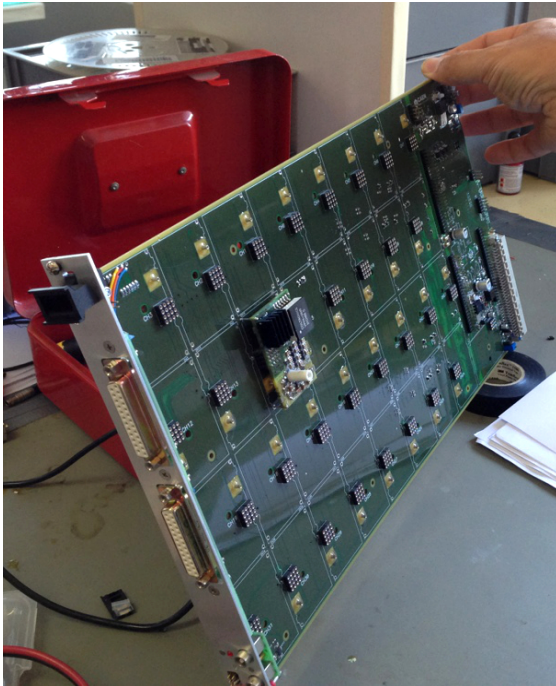
Summer 2015 activity

Secondment at CAEN Viareggio

Set up at CAEN based on SY4527 with A1542 board

Setup experimented in 2013 but now the board is fully commercial, with a number of feature added which we discussed together as outcome of that experience

It was a prototype during the 2013 secondment (A1541N)

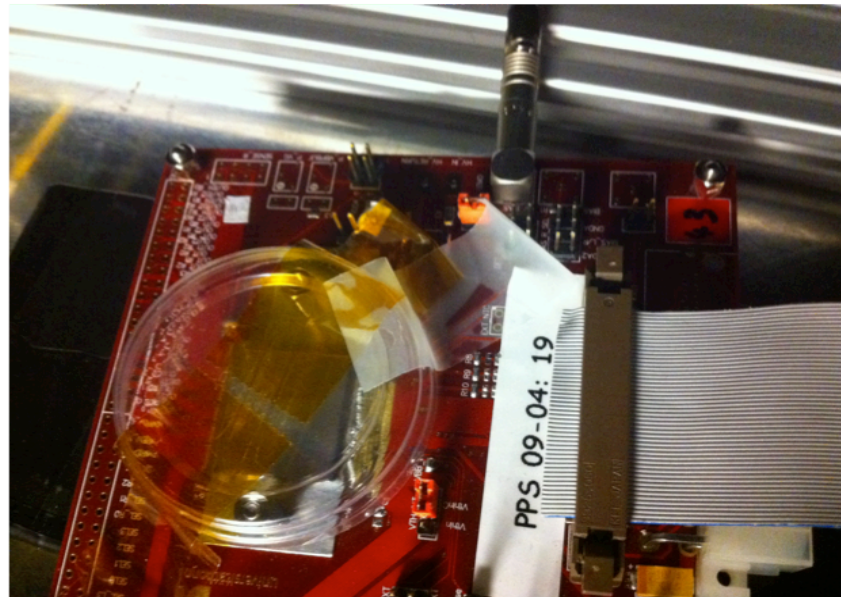


A1542 board

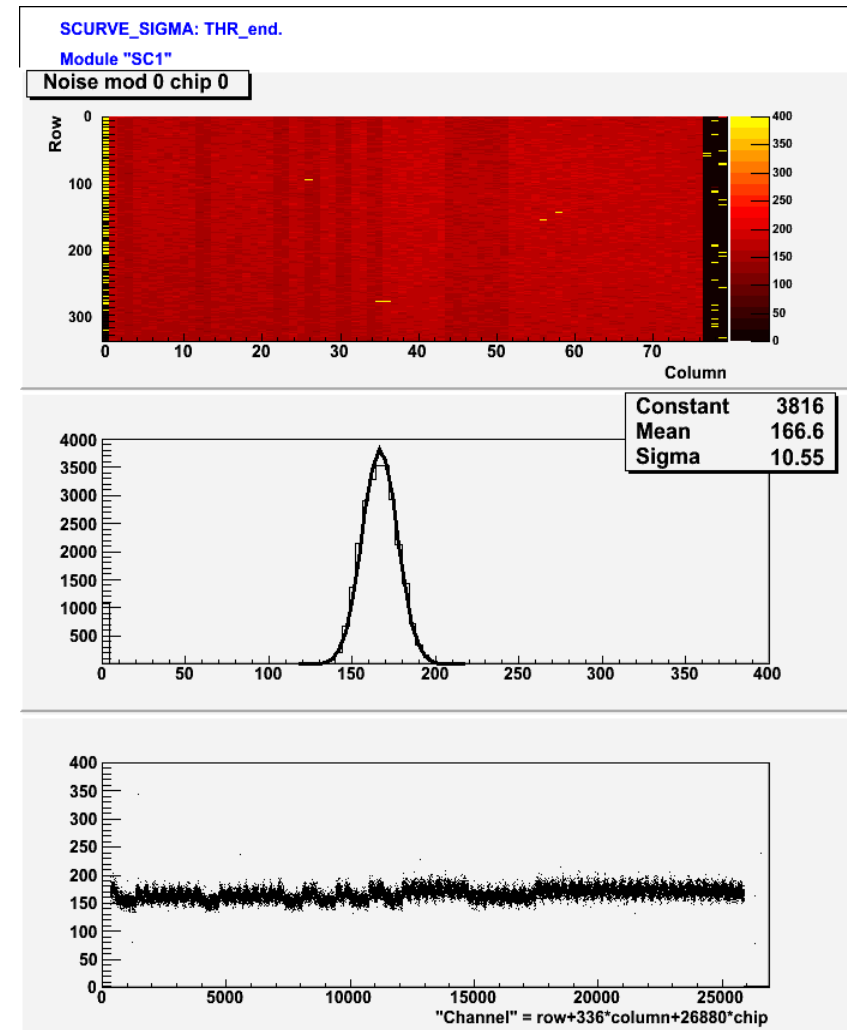
Now it is in production

LPNHE ATLAS pixel module tested in Summer 2013 (first CAEN Secondment) – Module characterized electrically

(current, noise, gain etc)



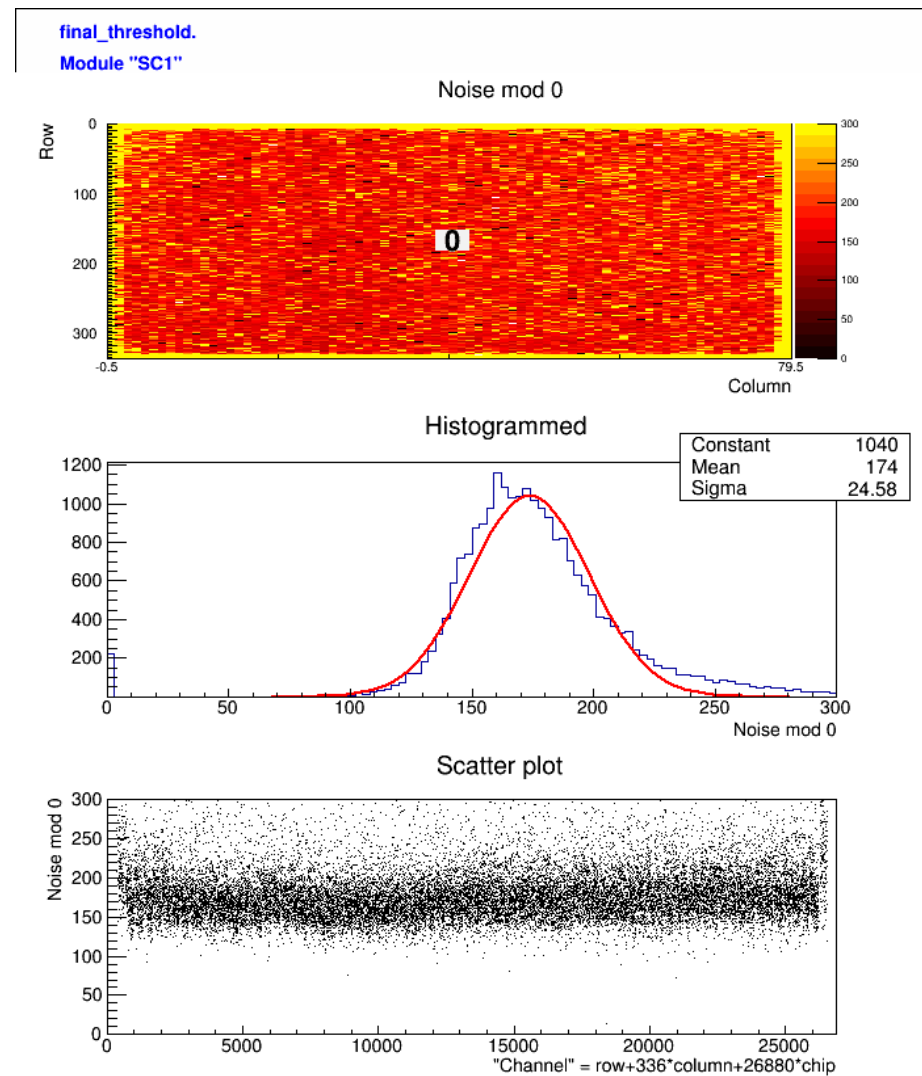
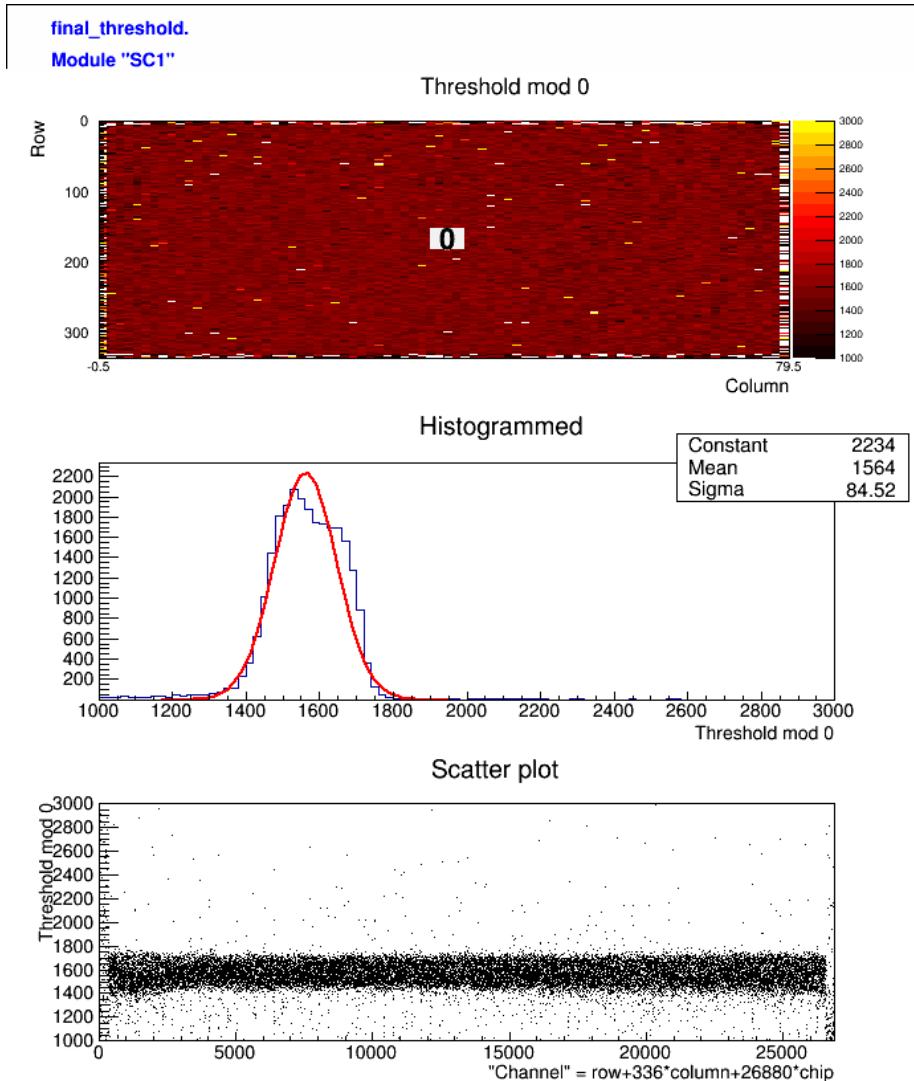
Re-characterized at CAEN
in 2015 before irradiation
to make sure nothing had changed



Irradiation at KIT

One sample irradiated to a dose = 1×10^{15} neq /cm²

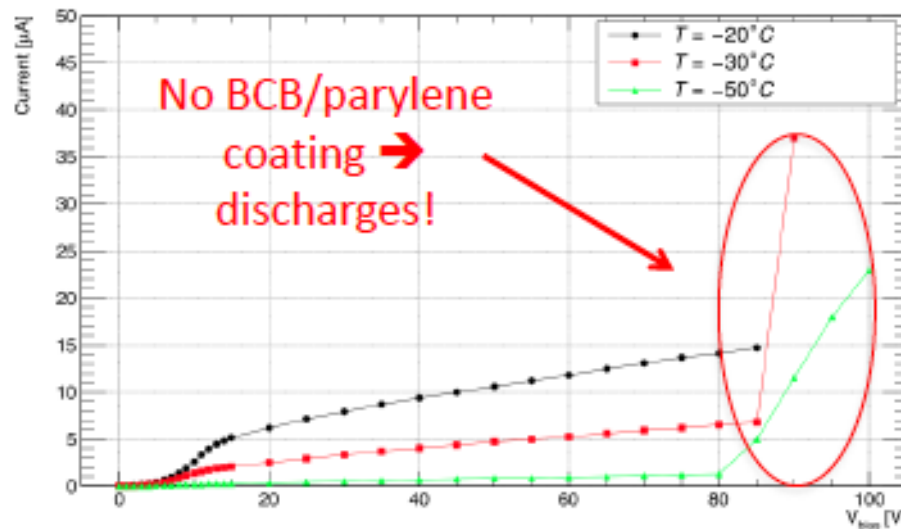
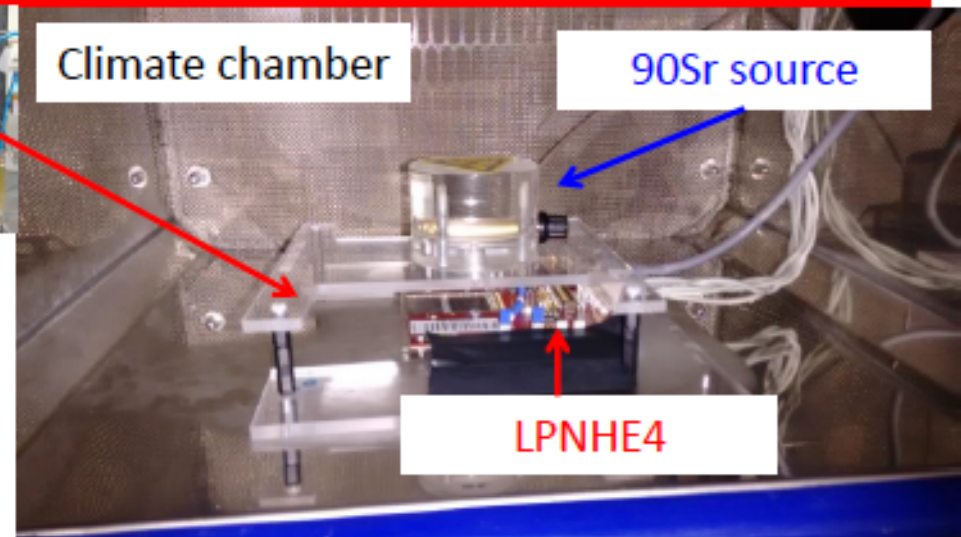
(26 MeV protons) Rough calibration NOT done with CAEN board



Three weeks ago shipped at CERN for testbeam

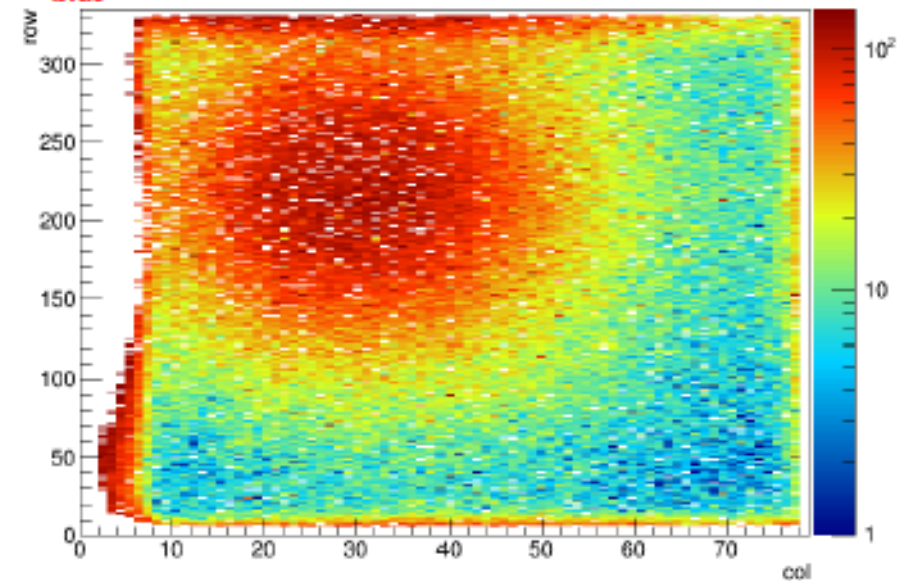


Lab tests performed in the CERN
lab climate chamber (thanks!)
Sample tuned via UBSpix



From M.Bomben Talk at NSS-MIC

$V_{\text{bias}} = 80 \text{ V}$, $T = -50 \text{ C}$; Thr = 1.6ke, 8tot @ 8ke



Now the board will be re-tested with the same setup (SY4527 with A1542 board) for post-irradiation characterization

Results will be included in the 2015 Secondment report (almost completed)