

The PolarquEEEst2019: EEE@Ny Alesund mission

An overview of the work done

The Team



From Left: Carmelo Pellegrino, Daniele Cavazza, Marcello Abbrescia, Bear Polar, Ombretta Pinazza, Marco Garbini, Francesco Noferini, Mario Nicola Mazziotta,



+ The local CNR Team

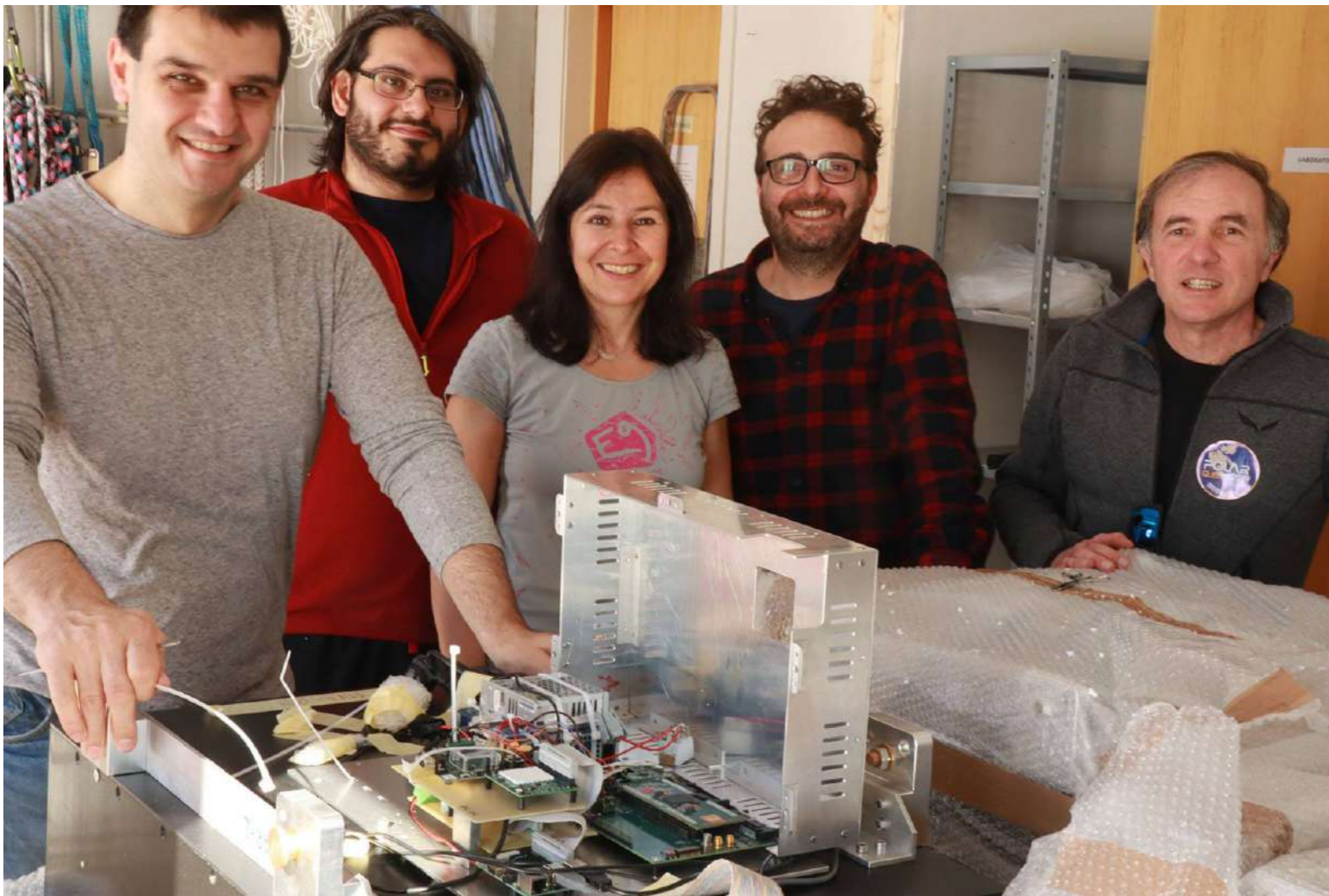


From Top-Left: Daniele Cavazza, Carmelo Pellegrino, Francesco Noferini
(Second row): Fabio di Bona, Mario Nicola Mazziotta, Bear Polar, Marco Garbini
(Third row): Ombretta Pinazza, Marcello Abbrescia, Mauro Mazzola, Angelo Pietro Viola

The activity (May 27-28 lunch time)

After arrival we started to put the all the detectors in operation in a room at Dirigibile Italia.

We needed to open the electronic box to re install the batteries. We checked that everything was fine.



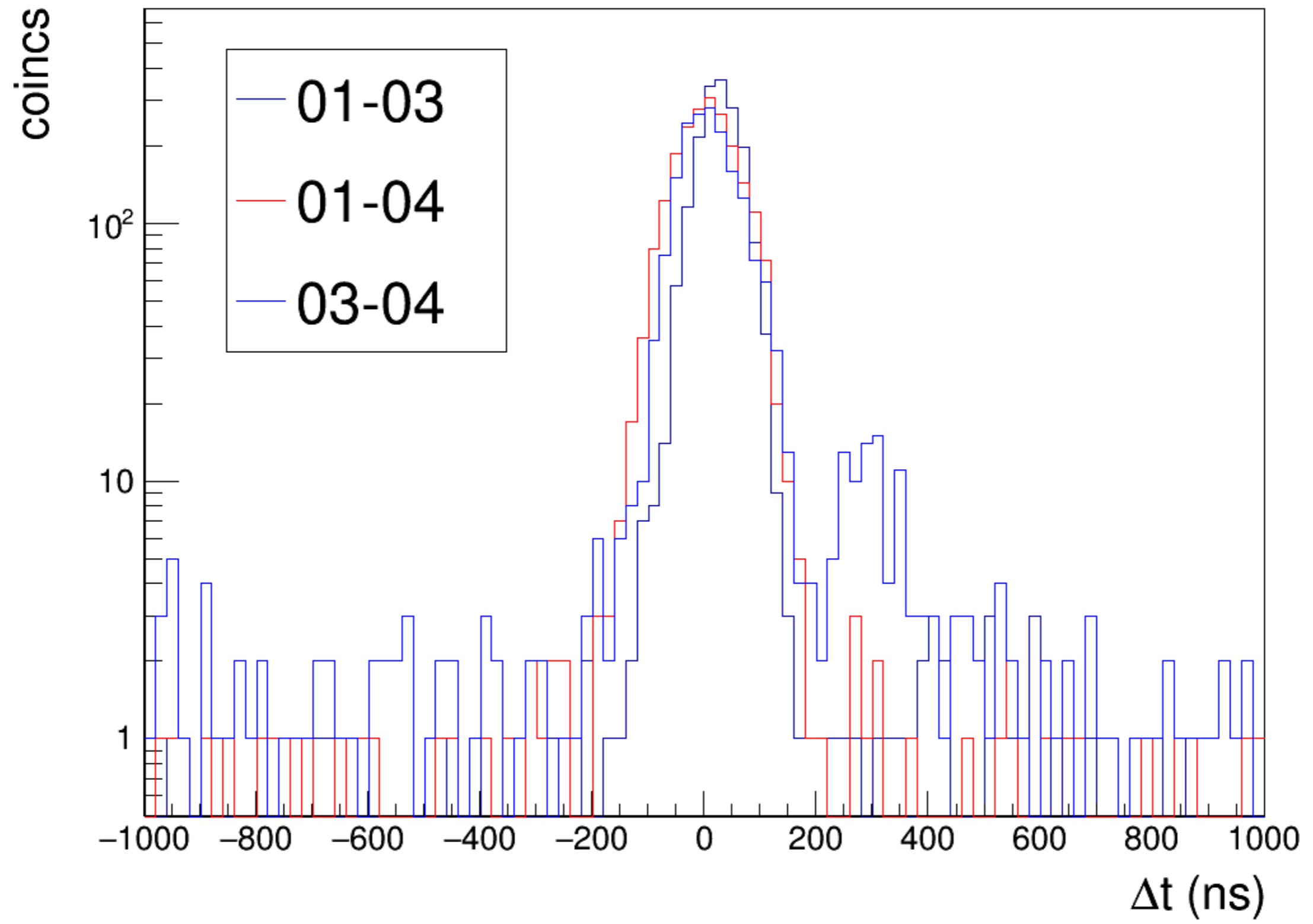
The 3 detectors remained in this site until Tuesday 28th at lunch time.

We checked the main things:

- rate
- TOT distributions
- coincidences

Check coincidences

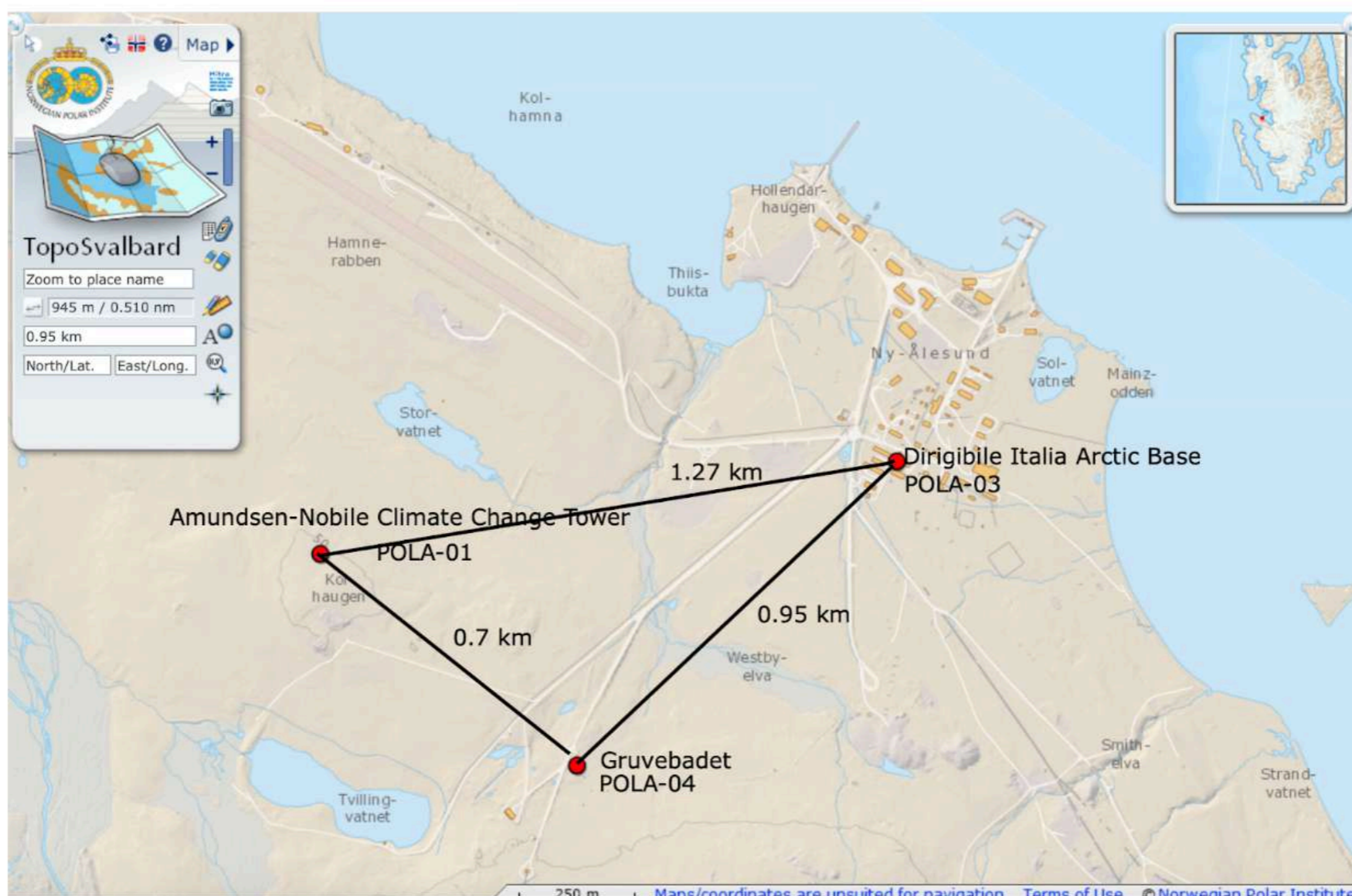
28/05/2019 @ Ny Alesund



The Sites

After a briefing with the CNR team and an inspection we decided the sites for the installations.

- POLA-01 in the Amundsen-Nobile CCT (Climate Change Tower)
- POLA-03 in the Dirigibile Italia station
- POLA-04 in the Gruvebadet laboratory



Installation (May 28 Afternoon)

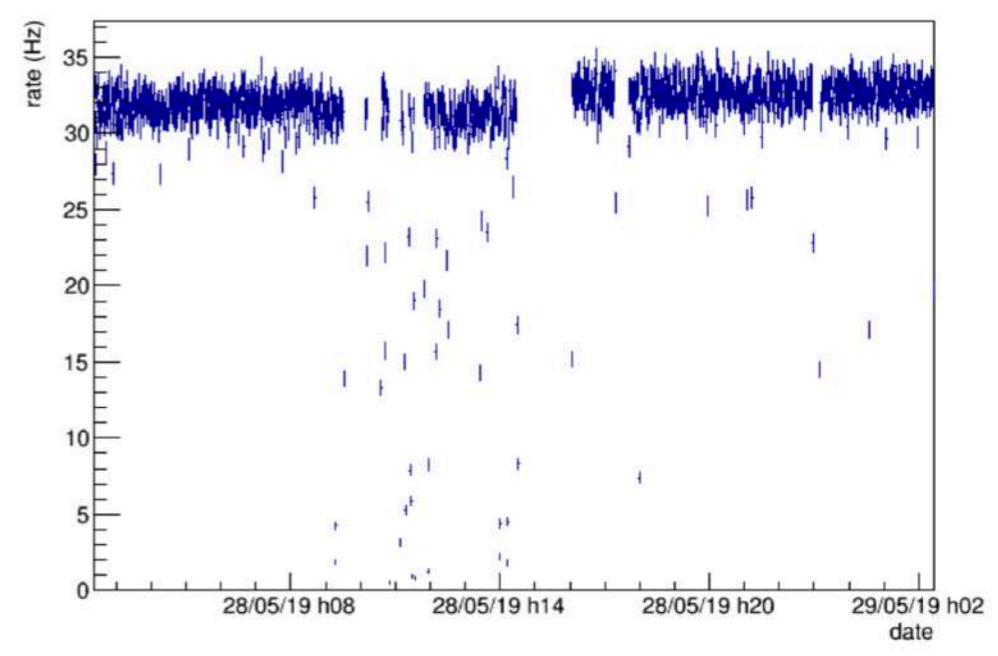
POLA-04 @ Gruvebadet



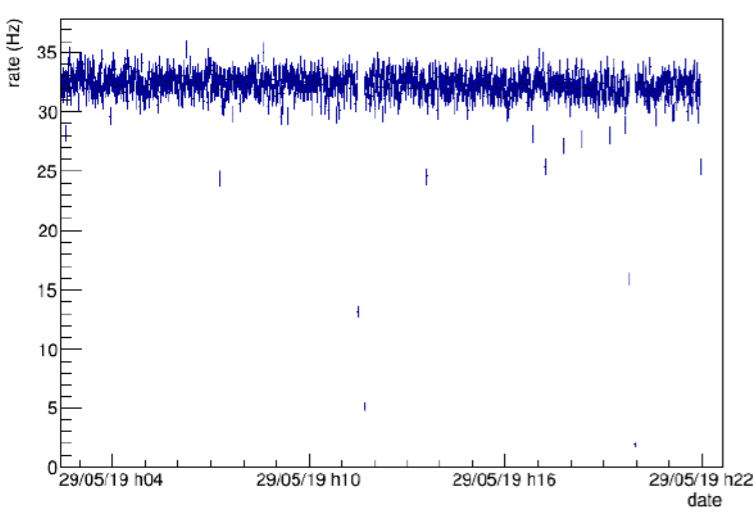
Smooth installation, just some time to acquire GPS signal.

Detail: under Norwegian network

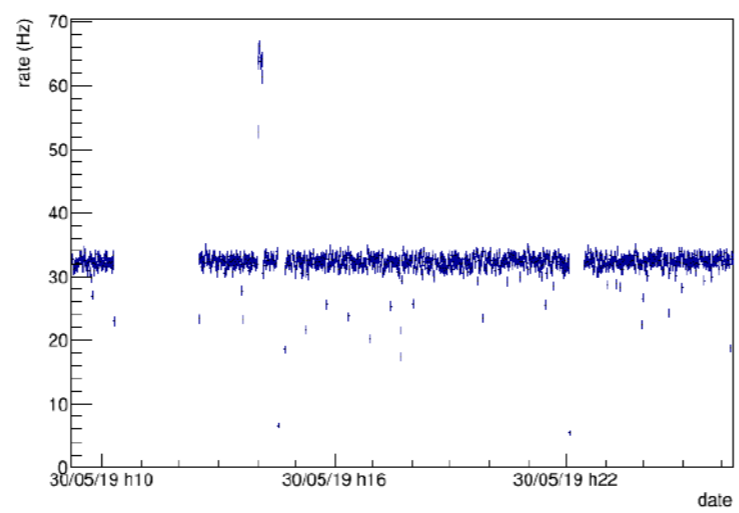
Trending Rate



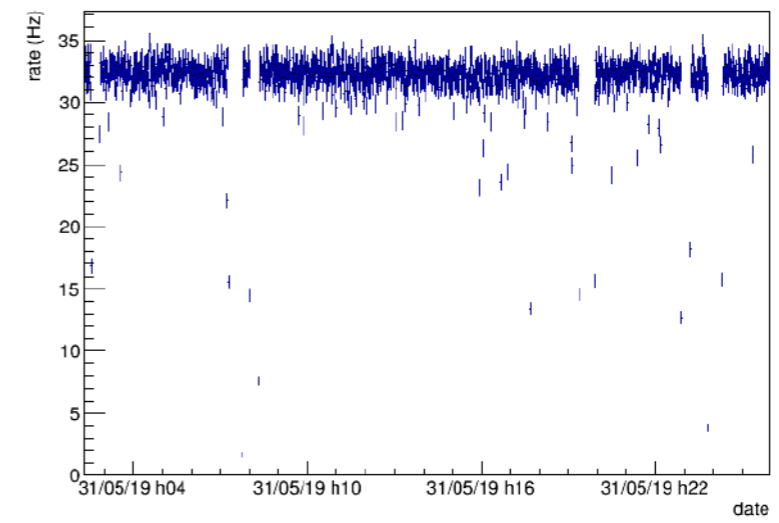
Trending Rate



Trending Rate



Trending Rate



POLA-01 @ CCT

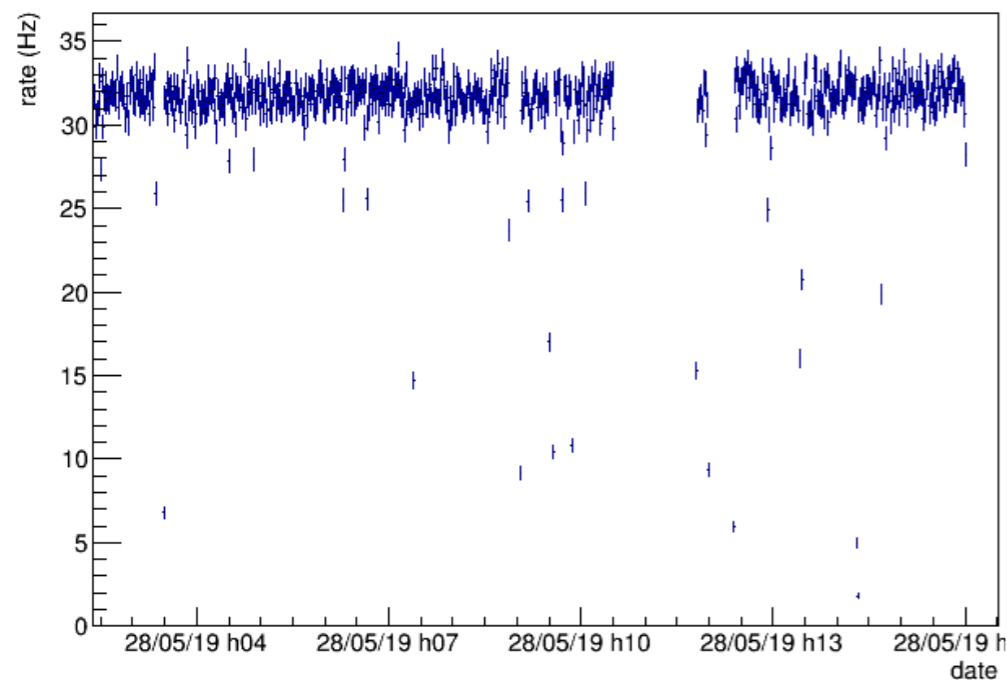


More complex installation.
Detail: under CNR network

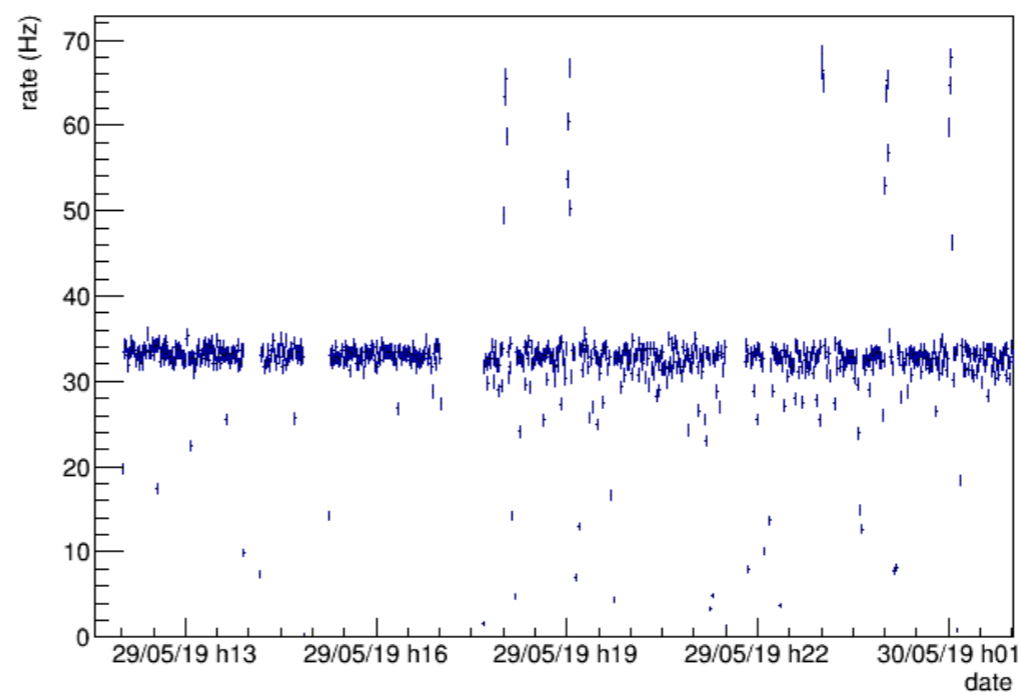


POLA-01 @ CCT

Trending Rate



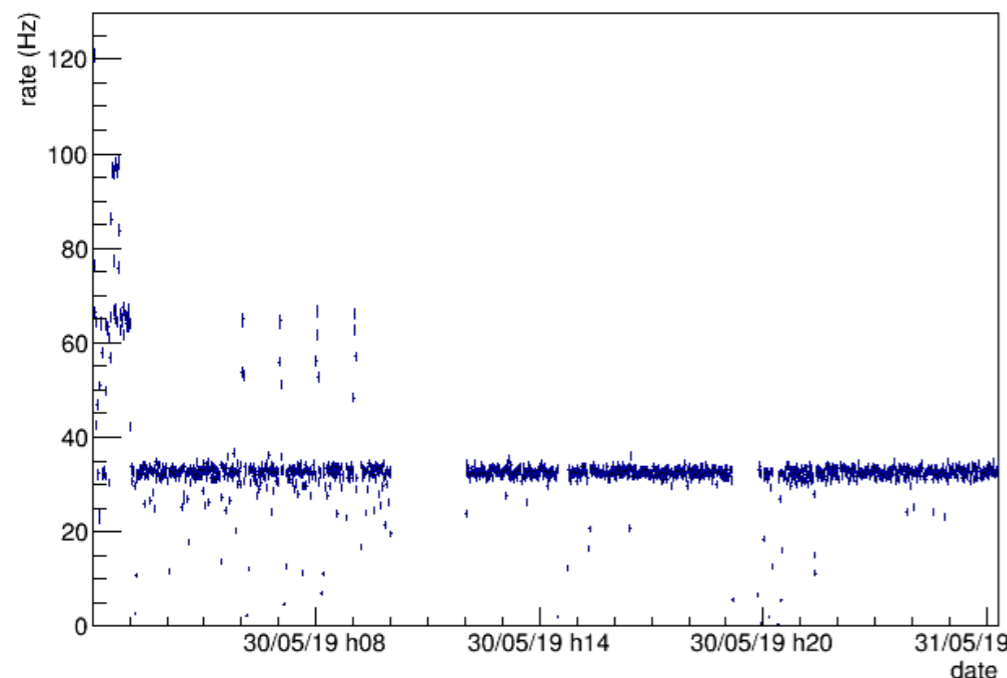
Trending Rate



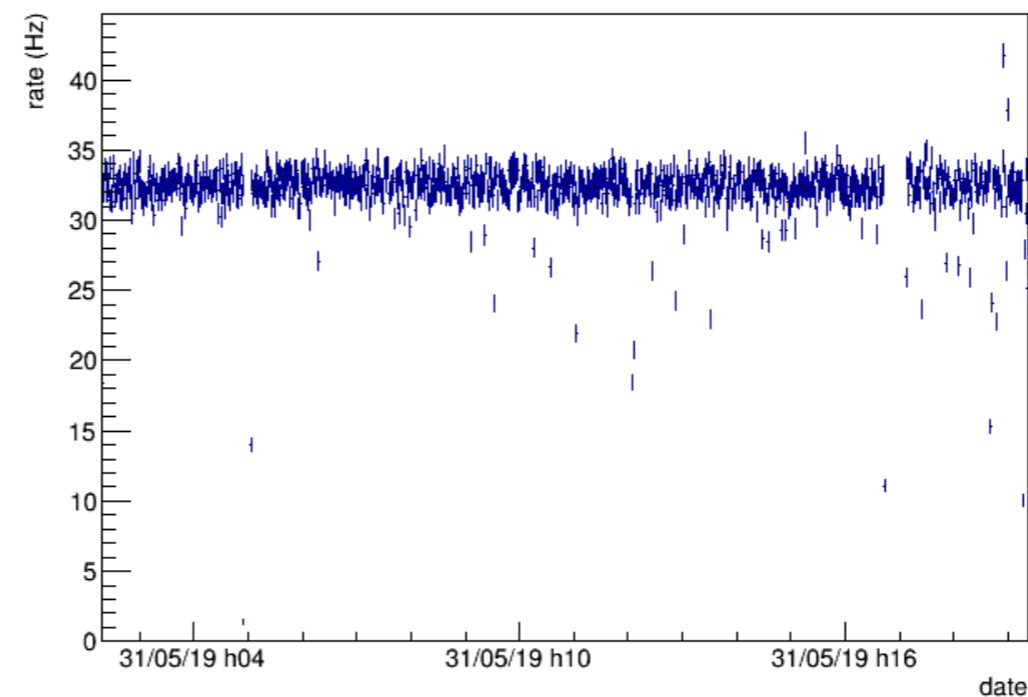
POLA-01 started operations smoothly. We had a power failure due to a loose plug. 😞

Everything fixed. 😊

Trending Rate



Trending Rate



POLA-03 Installation (May 29)

POLA-03 @ Dirigibile Italia



Easy installation, just change the room.
Detail: under CNR network



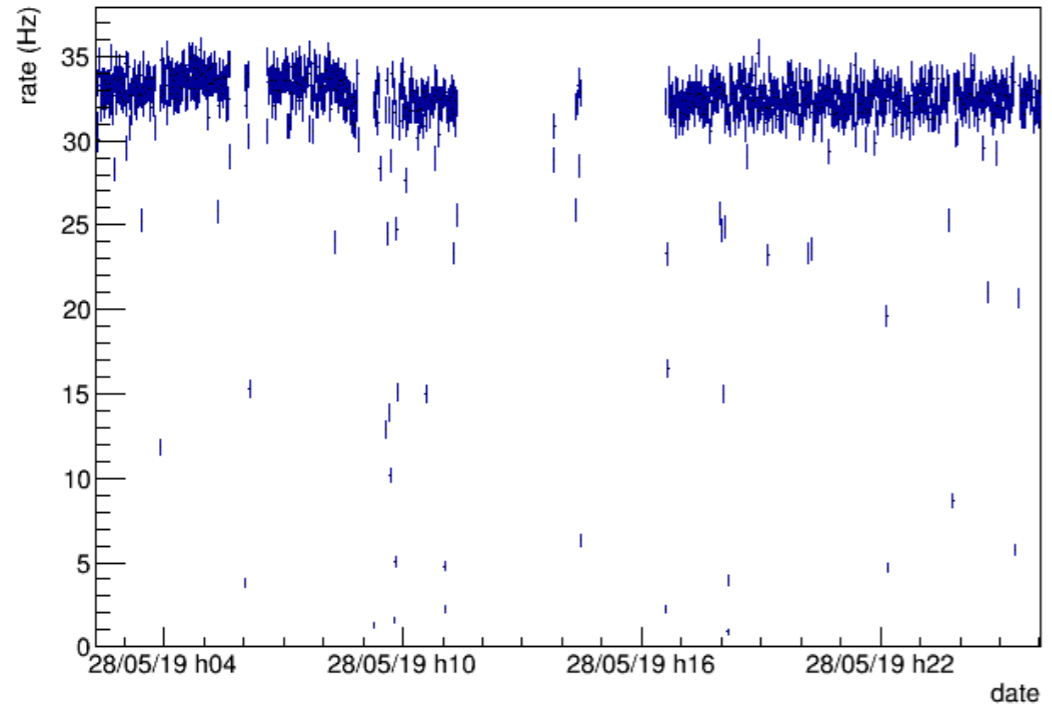
The detector has a hardware problem at the level of the Trigger and Readout Board.

The good news is that it has been “solved” via software.

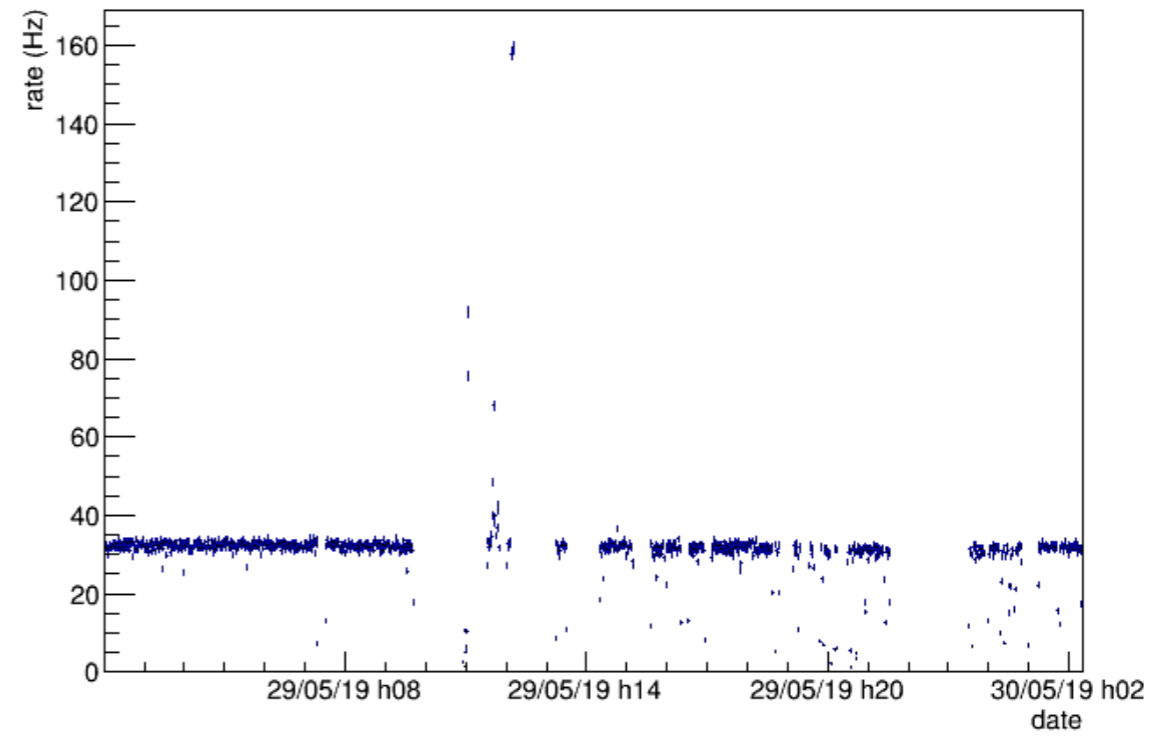


POLA-03 @ Dirigibile Italia

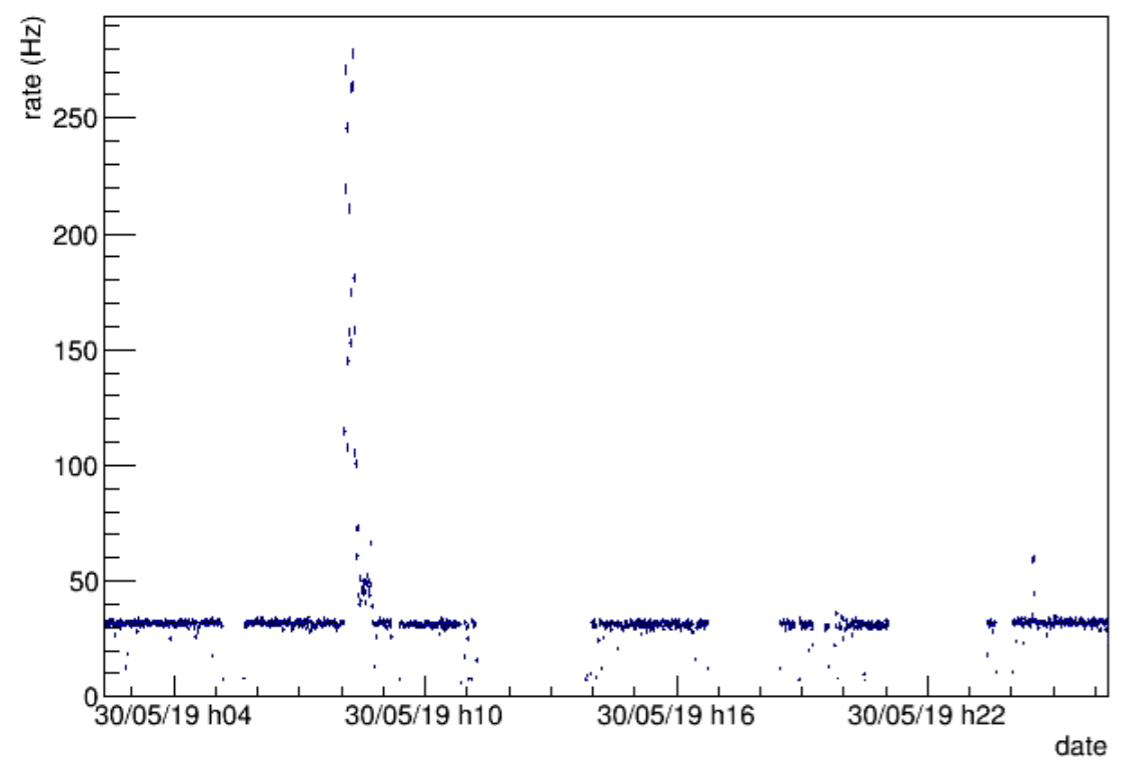
Trending Rate



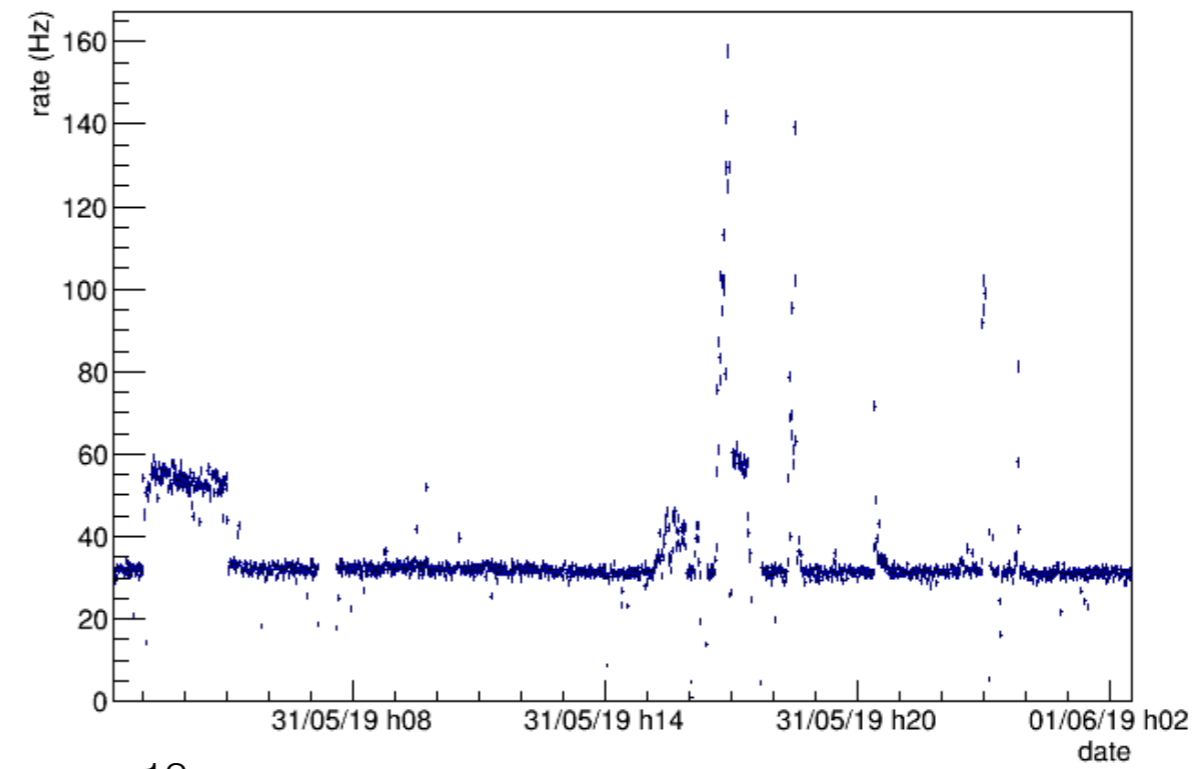
Trending Rate



Trending Rate



Trending Rate



A lot of work done by all



And first of all thanks to everybody

...and some work to do in the future

- Detectors installed and operational with high duty cycle.
- Keep monitoring -> Define procedures for CNR people on site
- ~~Define actions for POLA-03~~ **PROBLEM SOLVED!**
- We need to upgrade the DAQ software for automatic calibration runs
- Far future: possible new sites at Ny Alesund

