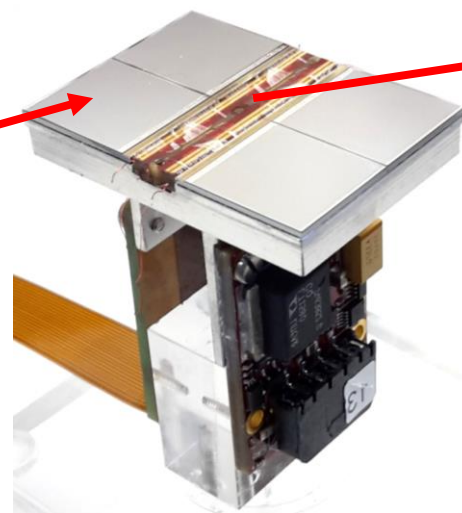
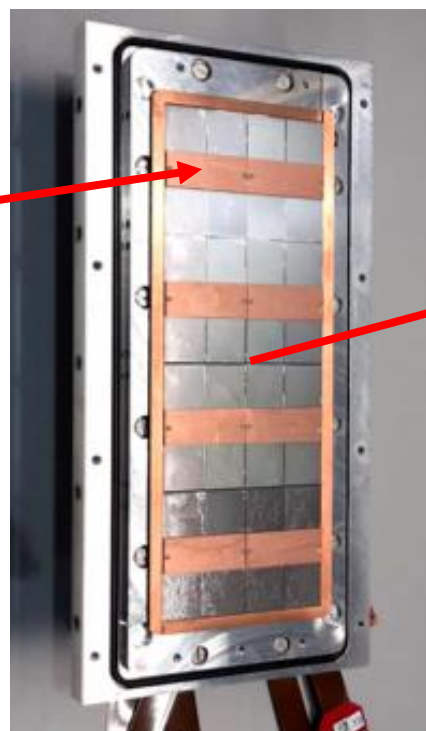


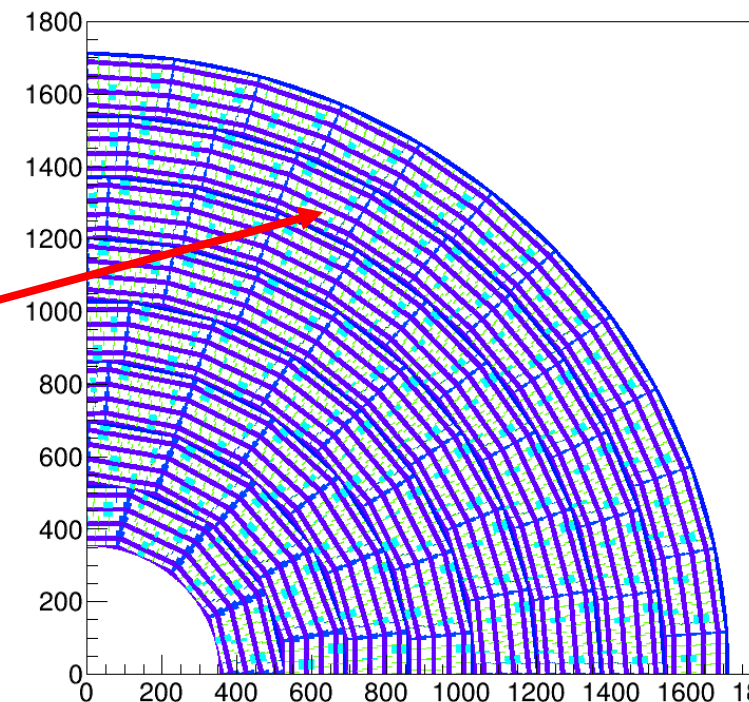
Single chip
2017



Quad
2018

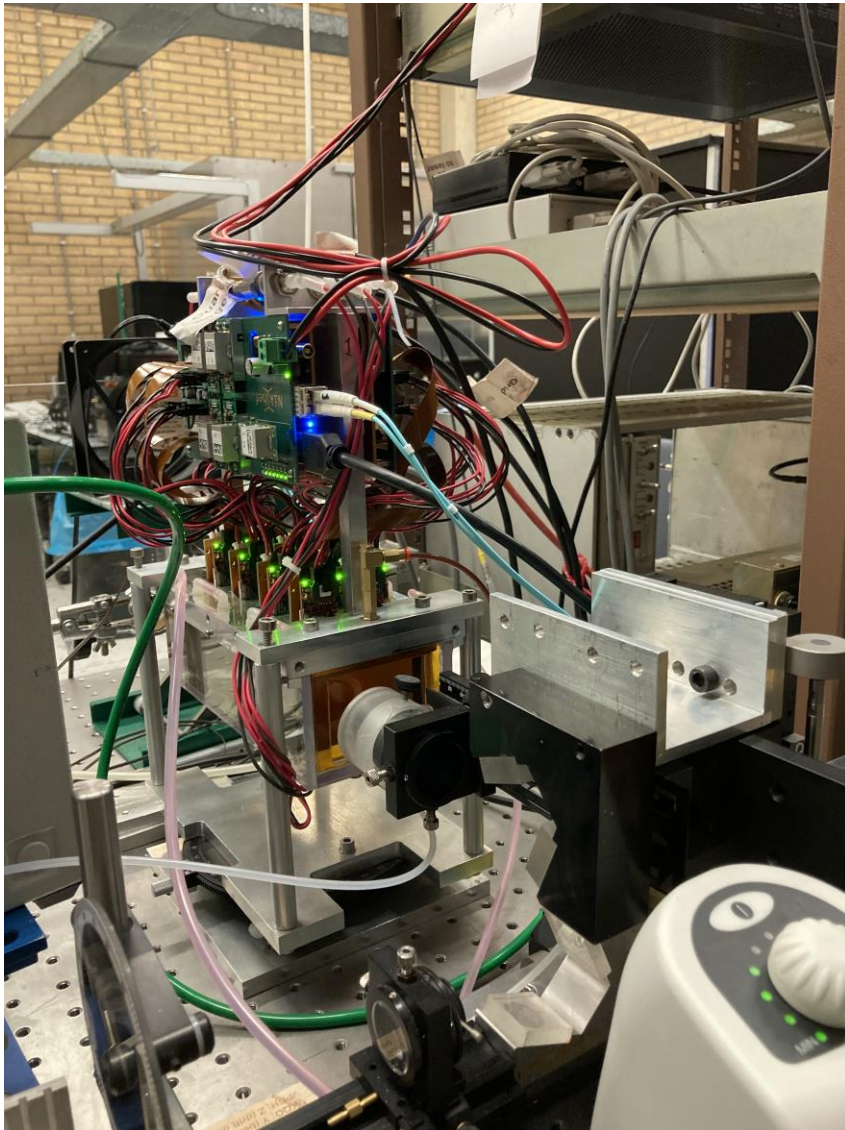


Module
2019



TPC plane

New Gas envelop 13 May



Here the 32 chip module in the new gas envelop
The entrance windows are 50 microns capton

The leak rate T2K is 1.3 ml/min: slightly better than
the old box (2.5 ml/min).

The O₂ level plateaus at 2 per mille. A bit higher than
the old box.

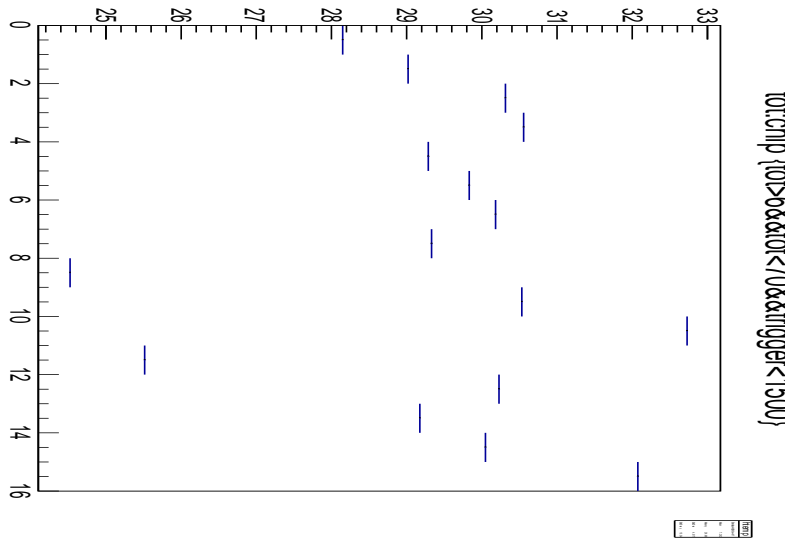
A Sr is mounted on the stager

This allows to compare the Sr data taken 13 May with
the old envelop with the new envelop

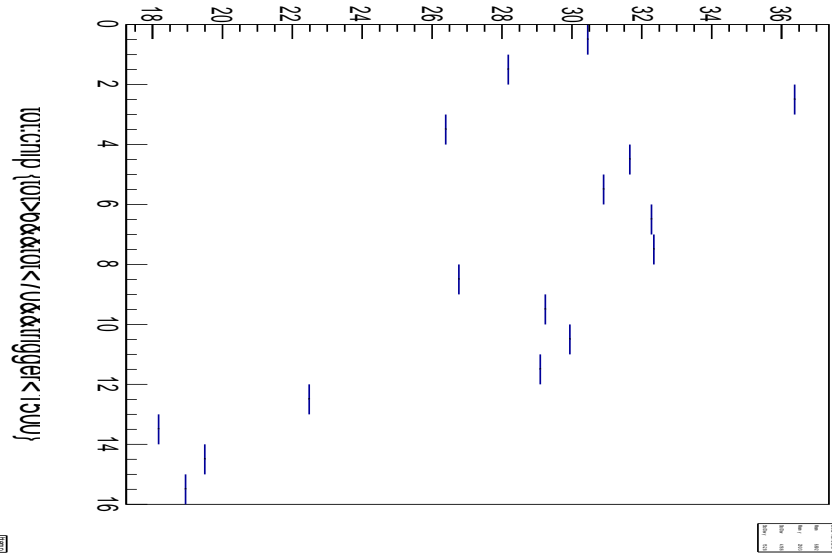
Test of new Gas envelop

Sr source with V grid 340 V Mean ToT -> efficiency

Mean ToT

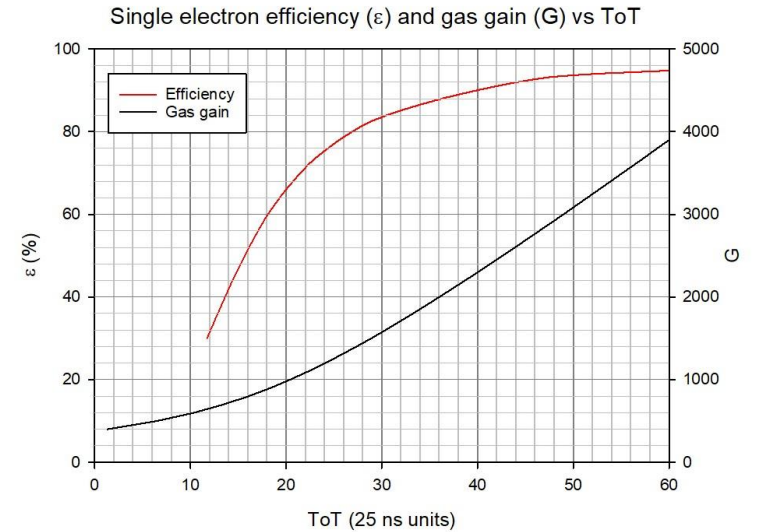


Concentrator 0 chip nr



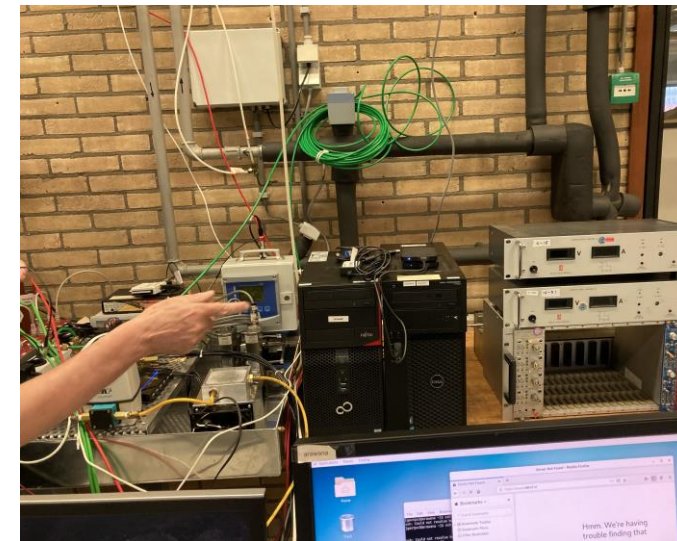
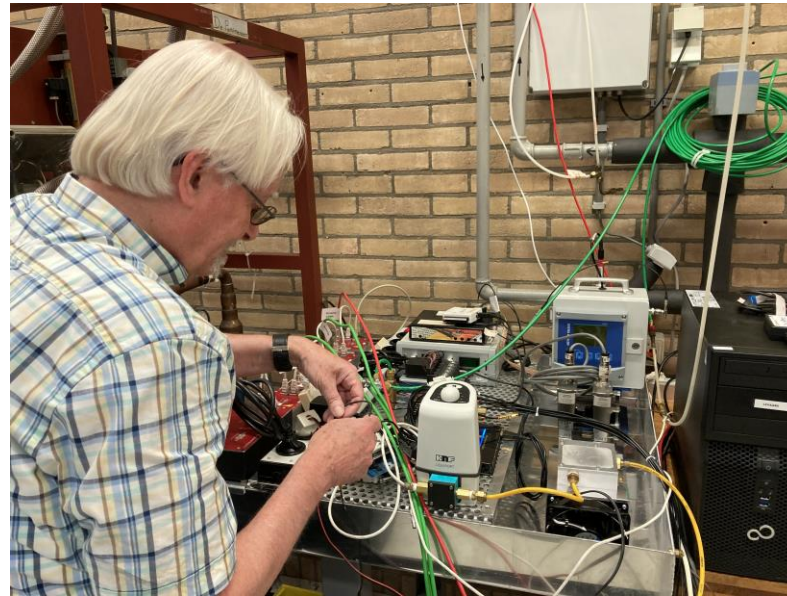
Concentrator 1 chip nr

Values measured with TPX3 chip at Th = 550 e-
 Efficiency curve measured in Ar/C4H10 82/18
 Gain curve measured with test pulses (Kees Ligtenberg)
 8-5-2021



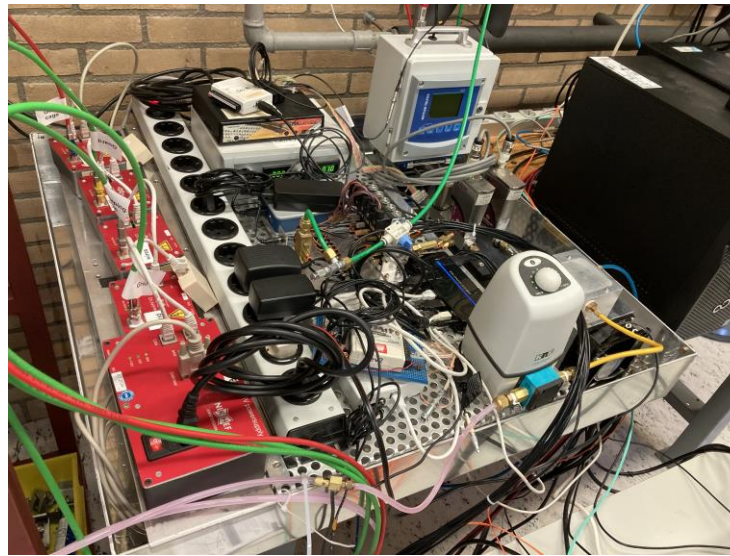
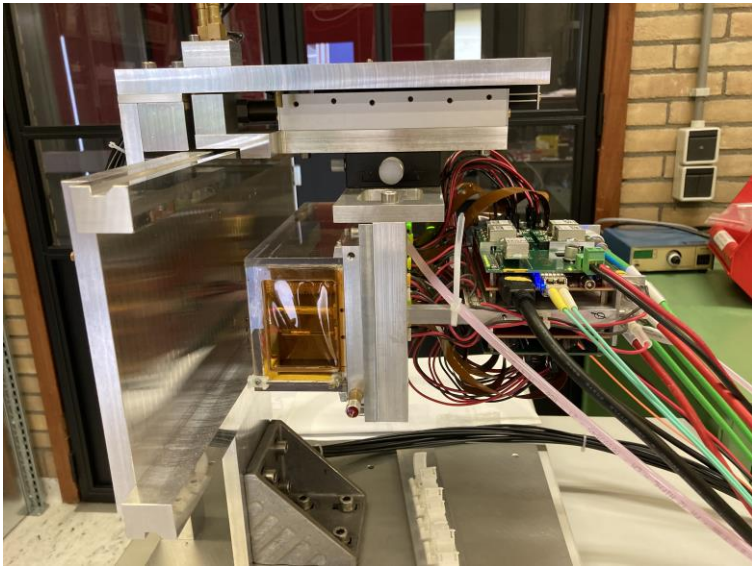
Start of mock up preparations 15 May

Most of the equipment from the laser set up is moved to H039
The computers levaard, arawana, cooling, power supplies, NIM crates



Mock up preparations 22-23 May

The detector is connected with 8 m long cables and mounted. The detector cooling is installed and works; HV is connected. The SPDR systems are powered and connected and the chips can be read out.



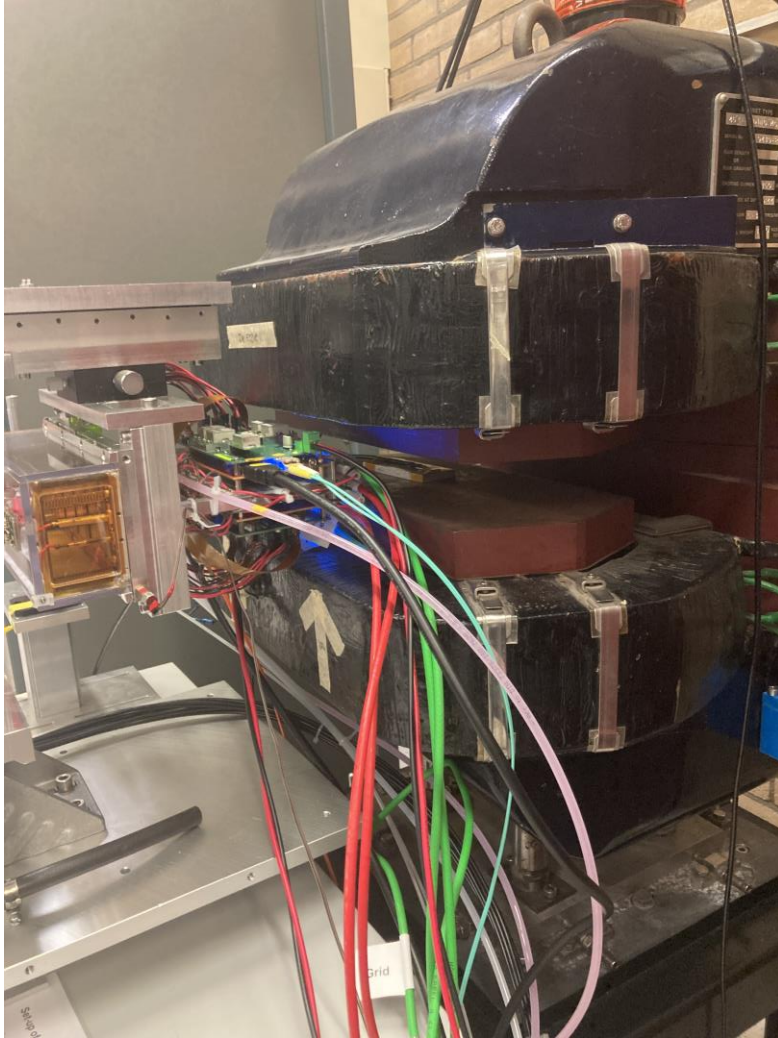
Mock up preparations 29 May



Remote desktop control (2 computers) and logging of the stage positions was tested on 29 May.

The system works fine.

B field test of the concentrator

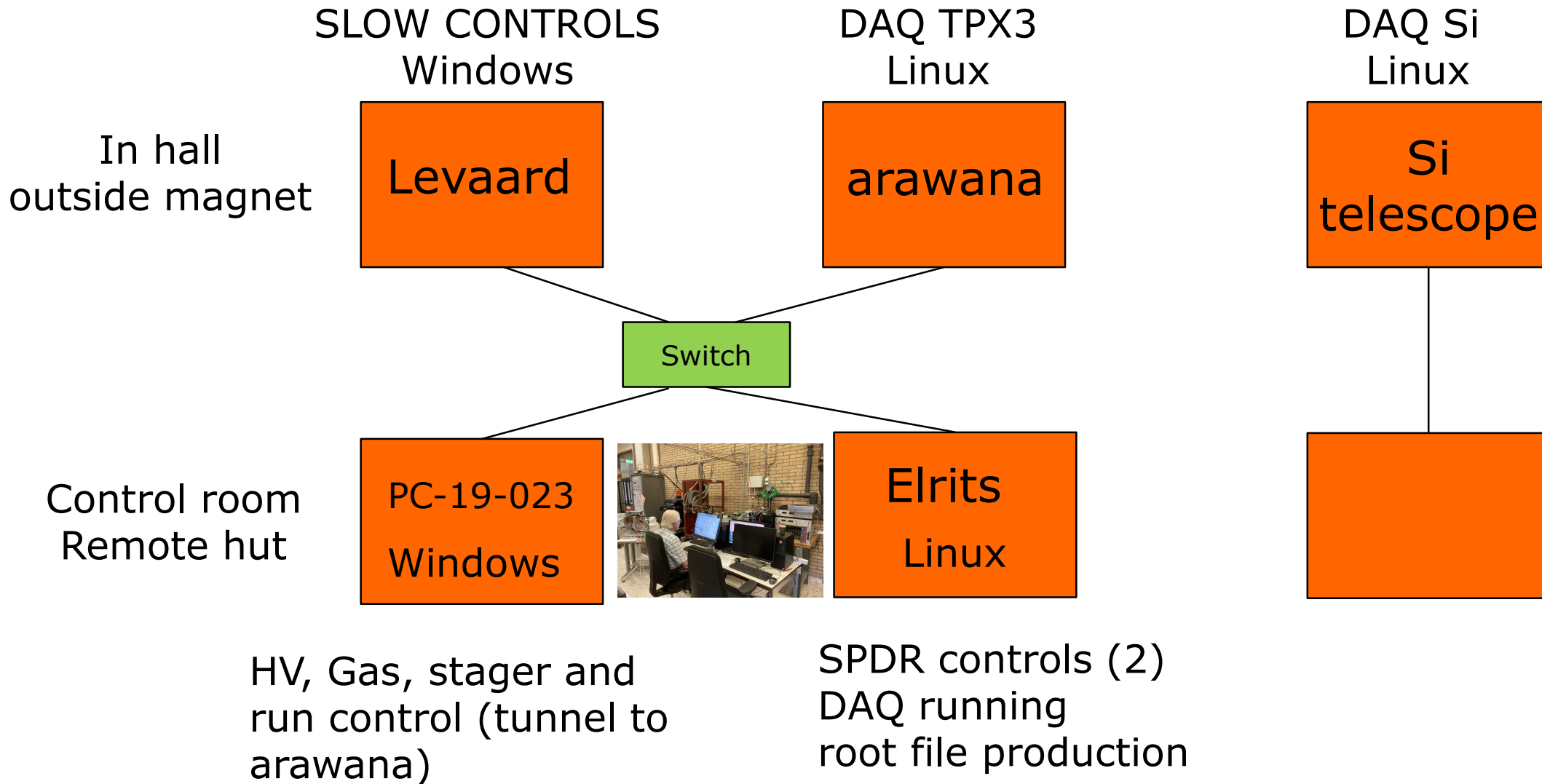


The magnet was powered with the help of Martin van Beuzekom. With Sander and Peter we took noise data at different field values. First points was 0.25 T. All 32 chips could be read out, but the colling of the concentrators with the ventilator was critical to get all chips in the readout.

A final test was done at 1 T. There were no problems in the readout of the chips.

We concluded that the concentrators work properly in a magnetic field.

Remote desktop and data taking tests



Packing of the equipment 5 & 12 June

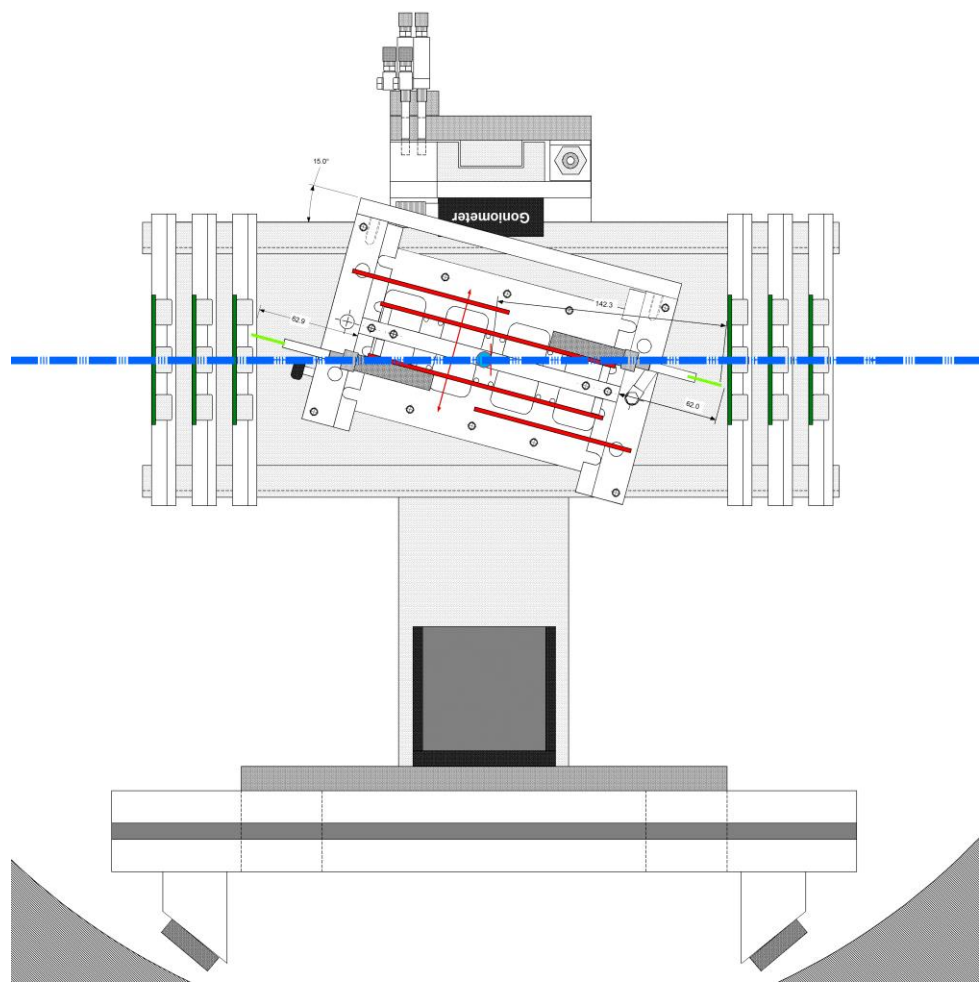
All the equipment including detector, cables and computers are packed, assembled in boxes and wrapped in protective plastic. Also spares and tools are packed. Elrits and arawana are still connected to the network and running and not yet packed.



The loading of the car (station wagen) will be done on 12 June. Need to take with us the cooling (concentrator).

Arrive at DESY 13 June!

Our Test Beam set up at DESY



The setup at DESY includes a MIMOSA silicon telescope with 2x3 planes and a 32 chip quad module

All placed inside the PCMAG magnet.