



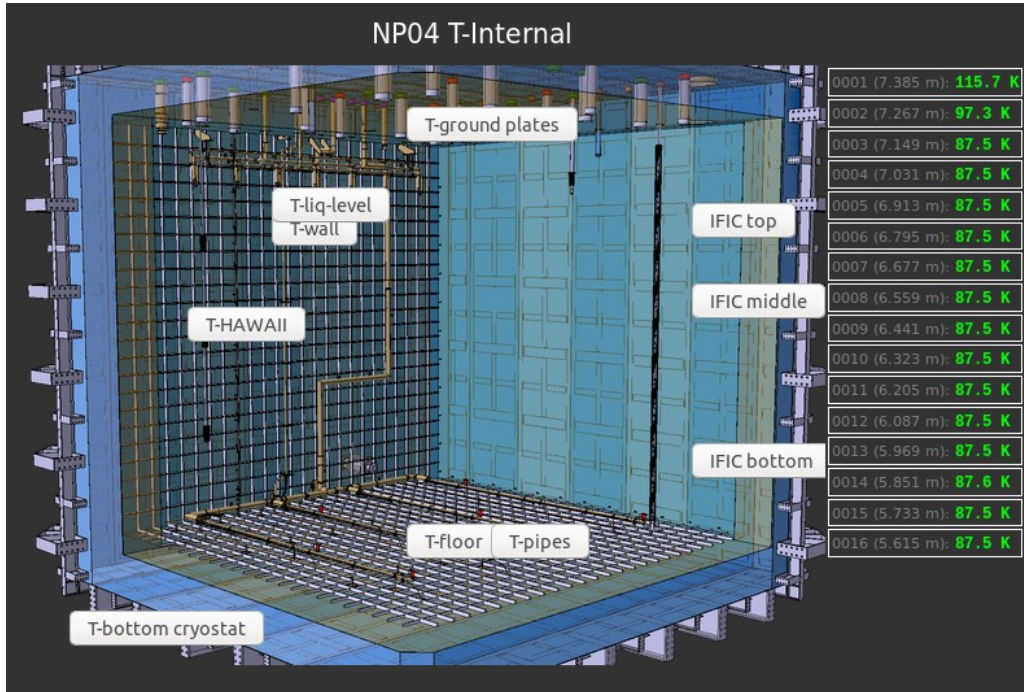
Temperature analysis

Nuutrino Oscillations group's meeting

11/09/2018

M.A. García

ProtoDUNE-SP Status



Cryostat is almost Filled.

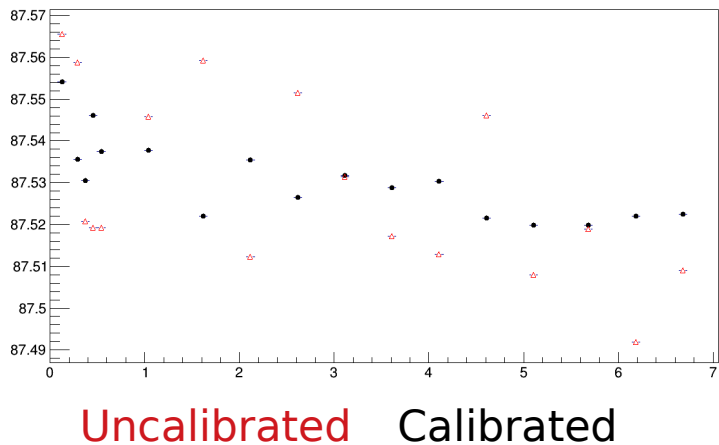
Beam is ON.

After filling process finishes it will start purification process.

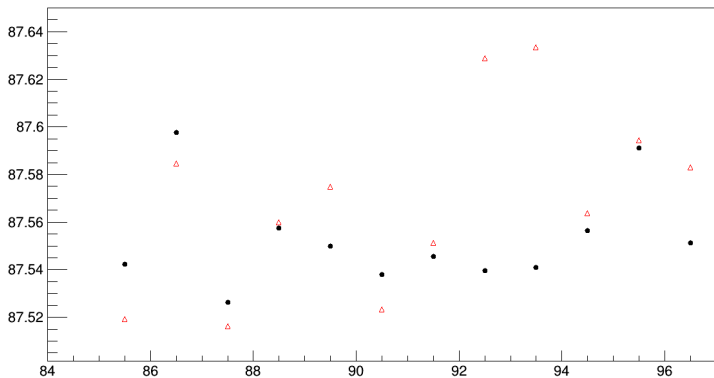
Probably in a couple of weeks we will be ready for taking data.

Calibration results I

Hawaii
> 25 mK



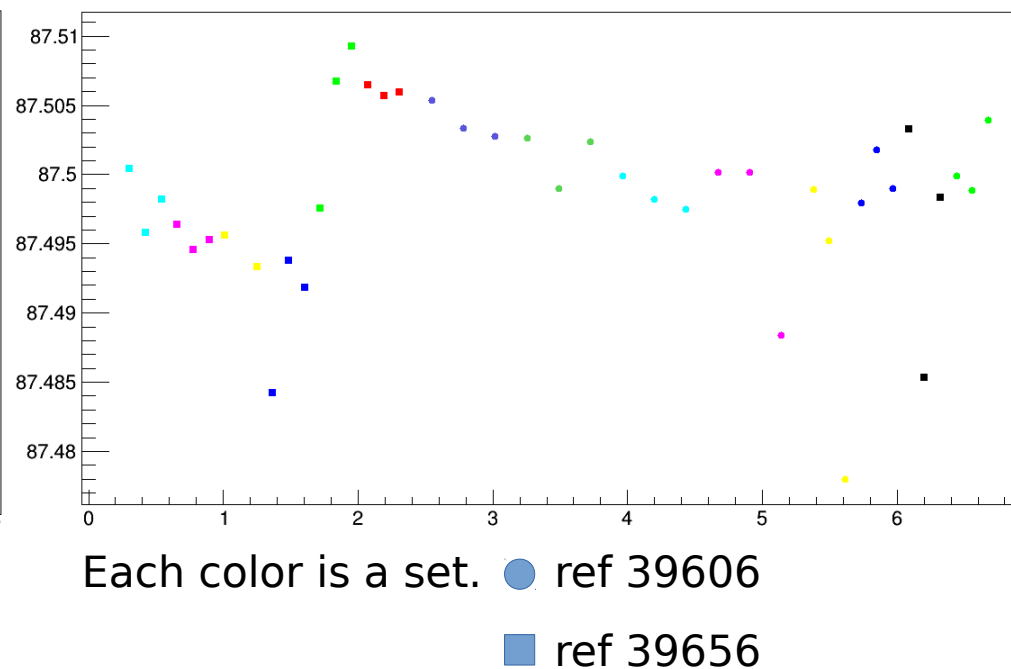
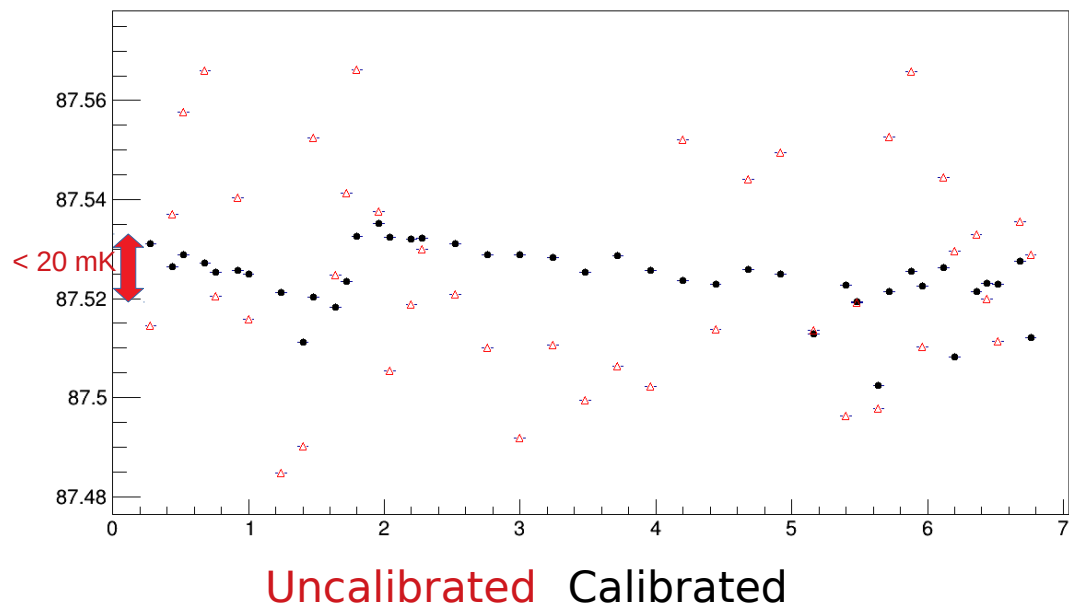
Pipes
> 30 mK



Taken data has allowed us to study performed calibration: temperature gradients are expected to be low.

Hawaii and pipes + gp calibration is not quite good

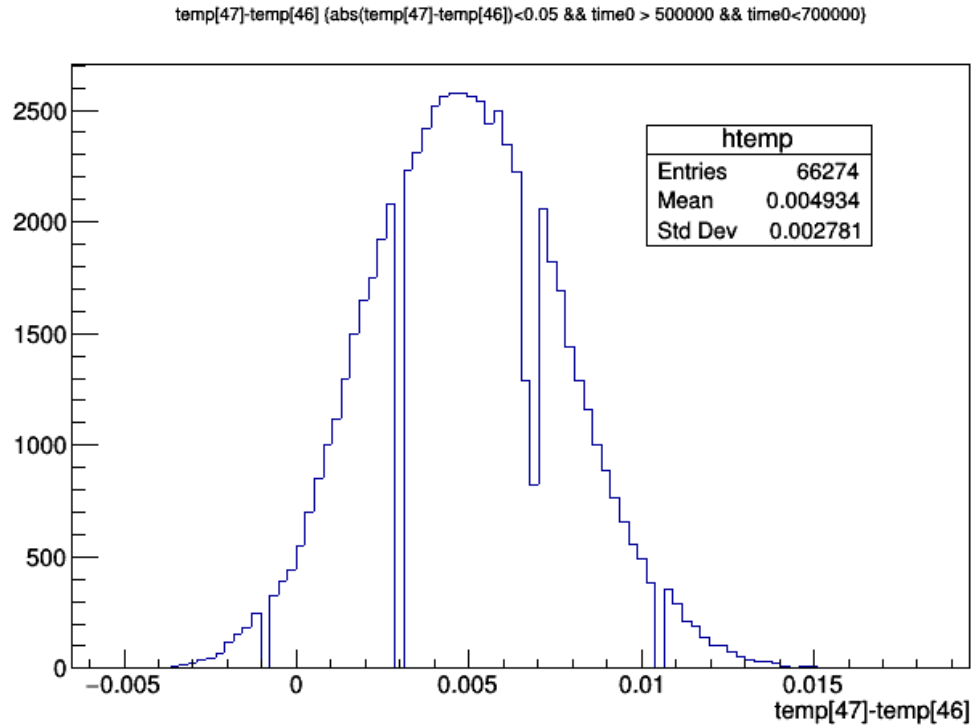
Calibration results II



Valencia TGM calibration seems to be more consistent.

We need to keep understanding calibration and figuring out if what we see is real or biased.

For the next weeks...



When cryostat is filled and purifying regime established, present a full 3D map temperatures.

Try to correct bad-behaved sensors.

Wait for CFD simulations results.

Write a paper!!!