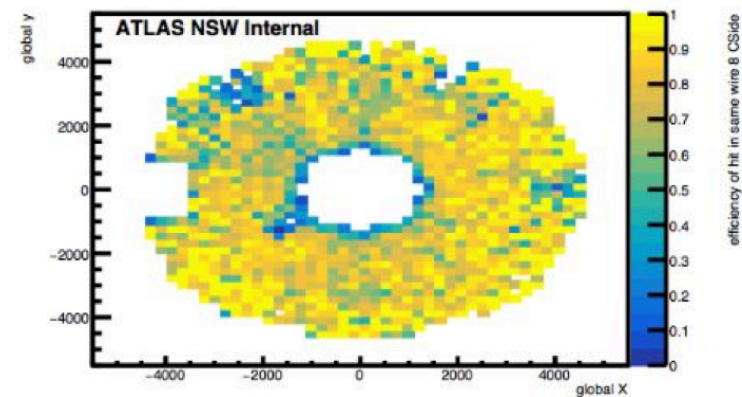
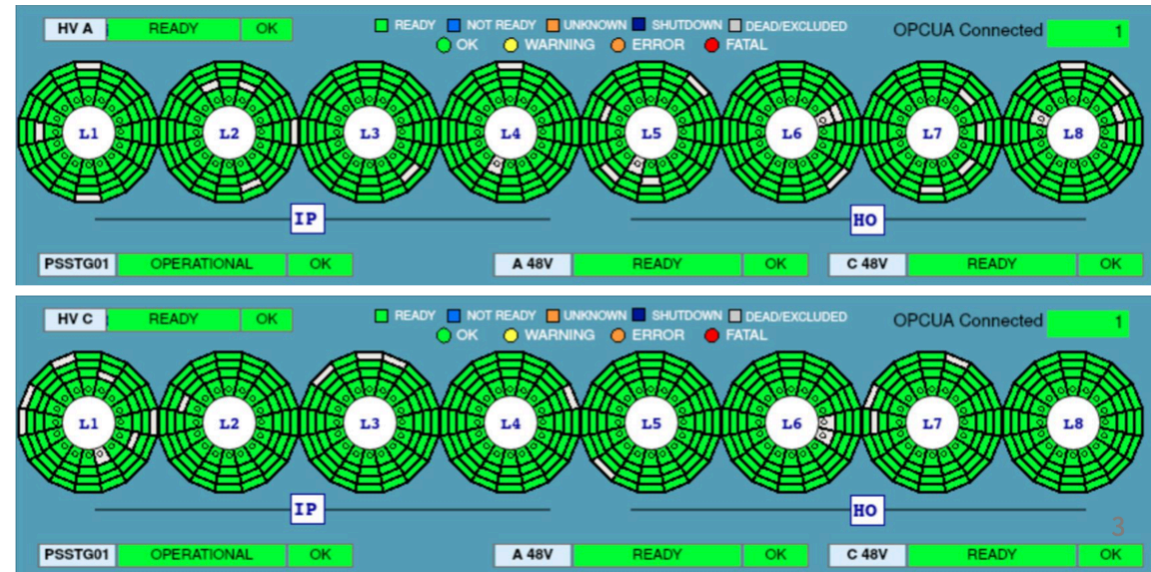


ATLAS LNF

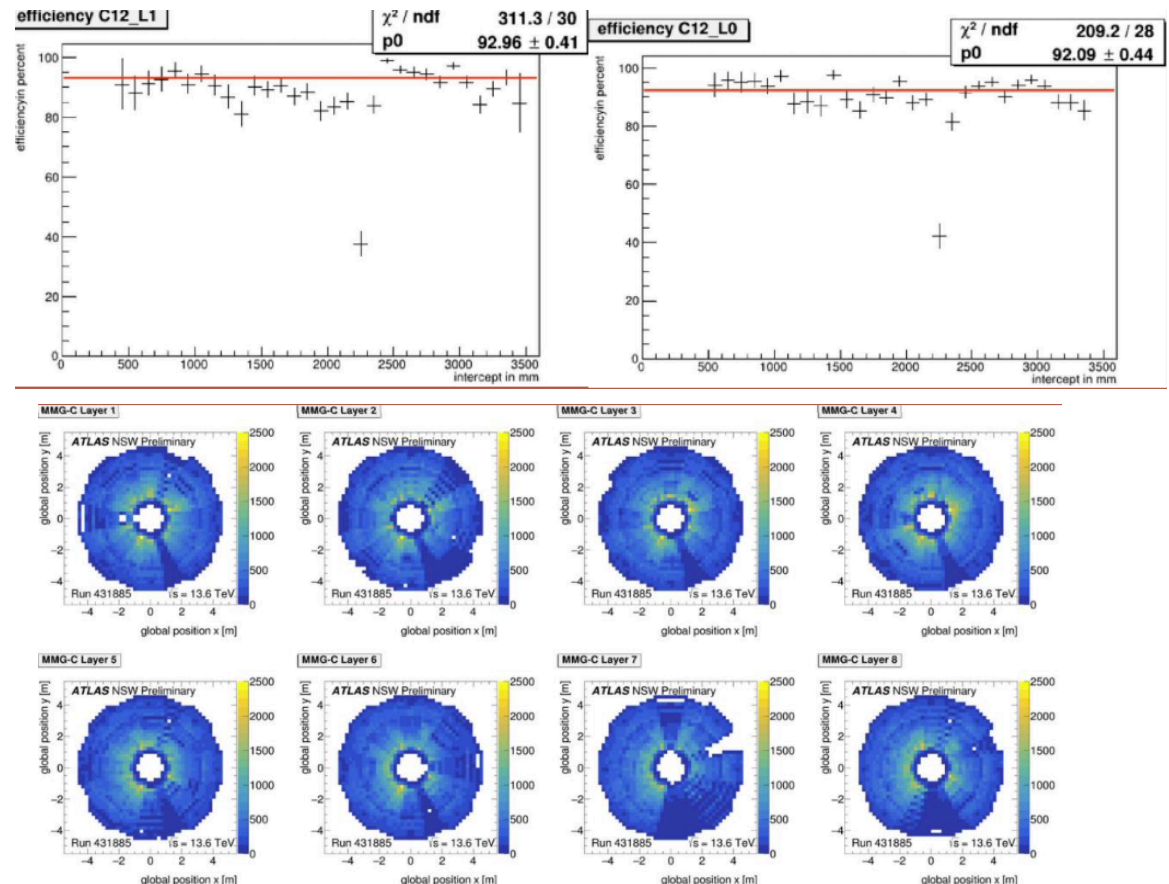
Status of detectors: sTGC (STG)

- Detector in good shape and in operation
- 5% of HV channels disabled (YETS)
- LV ICS issue (see later)
- Cooling issue - channels heating up over time (especially after cooling stop in Muons) need investigation (YETS)



Status of detectors: MM (MMG)

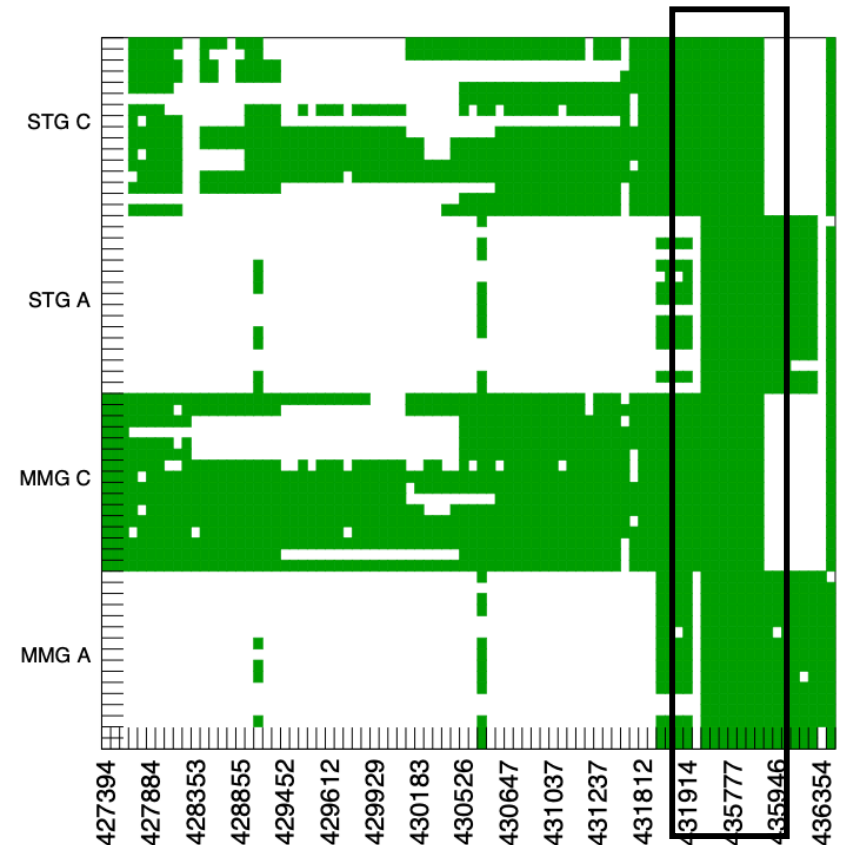
- Smooth operation
- HV (490V->505V)
 - 2/2048 channels disconnected
- 16/2048 not efficient
- Common issues with STG for LV and cooling



DAQ

- nSW is pioneering the new DAQ system in ATLAS
 - Strong commitment from the teams DAQ+FELIX+SWROD in this challenging activity (DAQ Task Force)
- Stability greatly improved wrt June (able to run with all sectors) but still a lot to do
- Well defined plan
- Need to maintain support for experts, crucial to arrive to operation asap

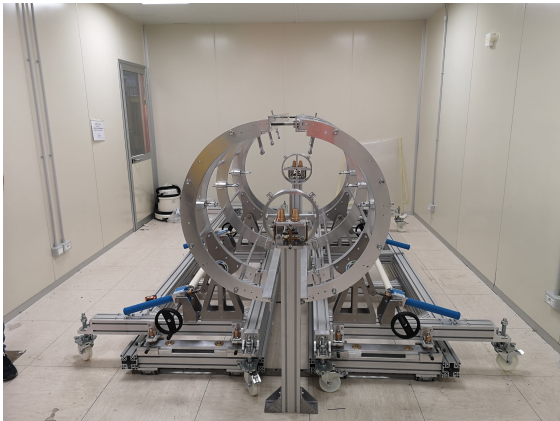
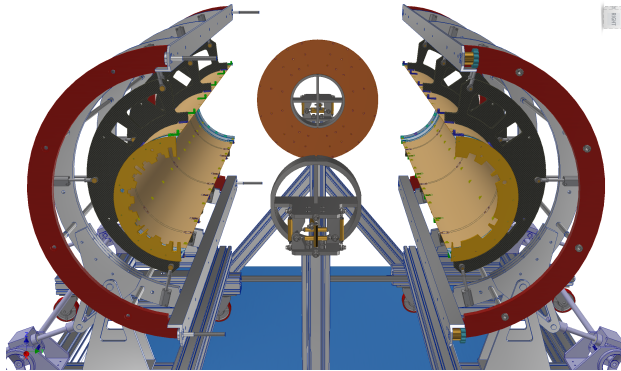
Alignment runs



LNF responsibilities for ITk

Mechanical assembly

- Tooling and procedures design

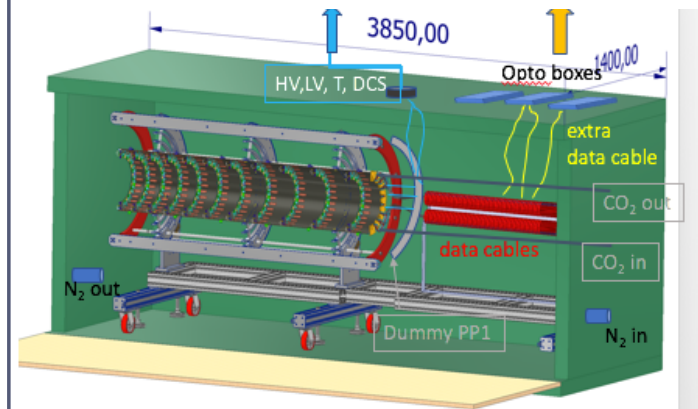


Completed
prototype
LNF in June

► S. Tomassini, D. Orecchini, F. Rosatelli

Commissioning

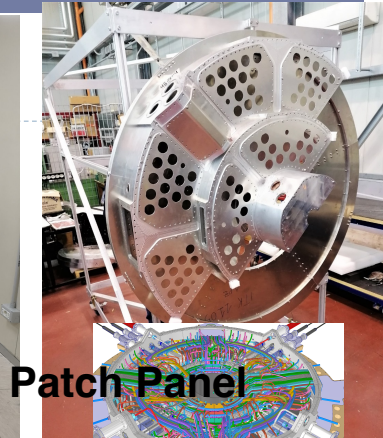
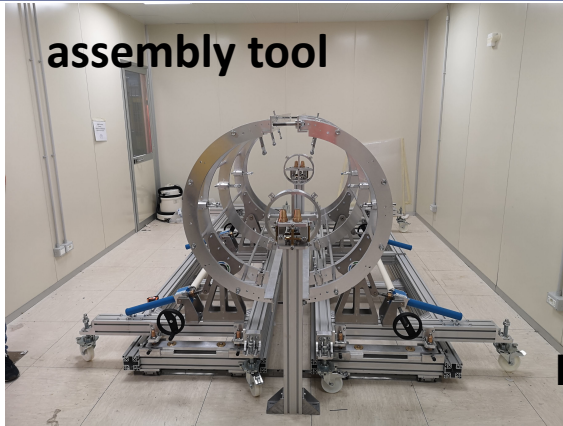
- Reception test of half-rings
- Electrical services design and prod.
- TIG welding
- Pressure & leak tests
- Functional tests of half-shells at warm and cold CO₂ temperature
- Thermal cycle of half-shells with detector off



M. Testa, P. Albicocco, E. Dane',
M. Beretta, G. Cesarini, S.
Tomassini

ITK

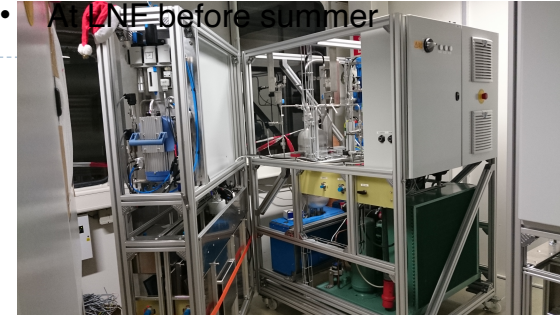
assembly tool



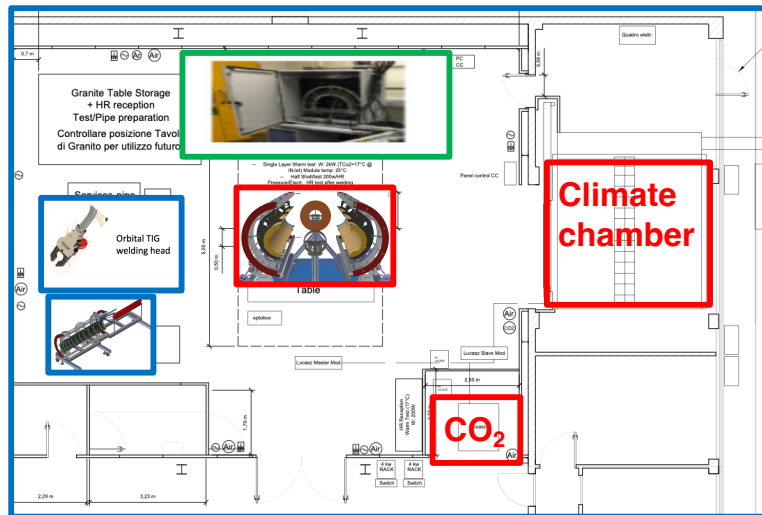
S. Tomassini, S. Cerioni, D. Orecchini, F. Rosatelli

CO₂ cooling system;

- Completed commissioning @ DESY June 22
- A LNE before summer



C. Ligi



S. Cantarella,
E. Dane', C. Ligi, M. Testa

Large Climate Chamber
Installed in Ed. 8 in May 22

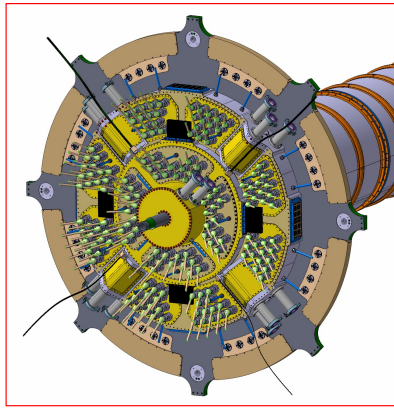


E. Dane', G. Cesarini
M. Beretta, M. Testa

Patch Panel 1 for ITk

LNF is responsible
for design of

- mech. structure,
- piping, cabling
- prototypes
- production



E. Dane'; F. Rosatelli; D. Orecchini
S. Tomassini.

