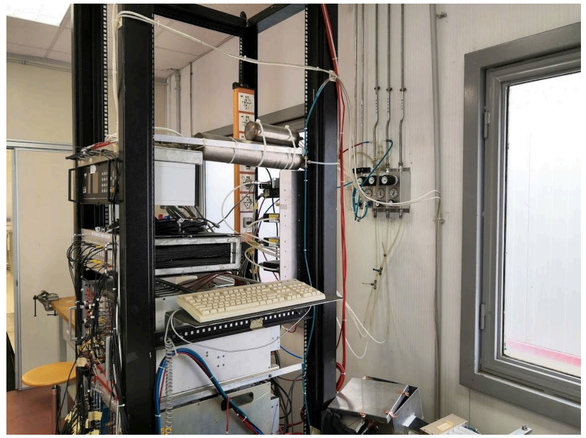
Integration - update 21/5/2020

- Building 28/48 refurbishing
- LIME assembly
- computing
- LNGS: a) baracca, b) sala F, c) Baracca+Sala F (see next)
- next 6 LNF services month schedule
- purchase gas 2 He + 2 CF4 done and delivered
- camera cooling system ready to be installed

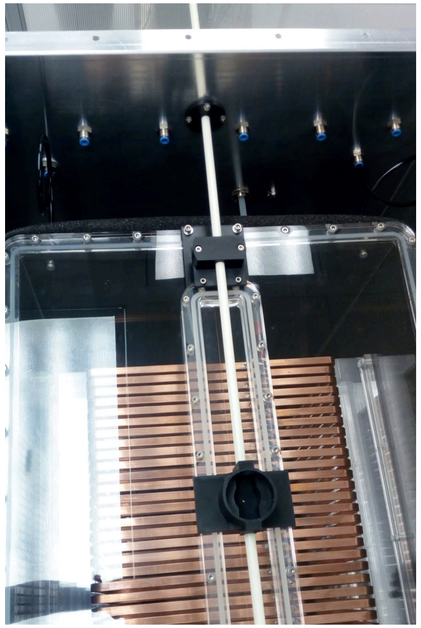
building 28 refurbishing…

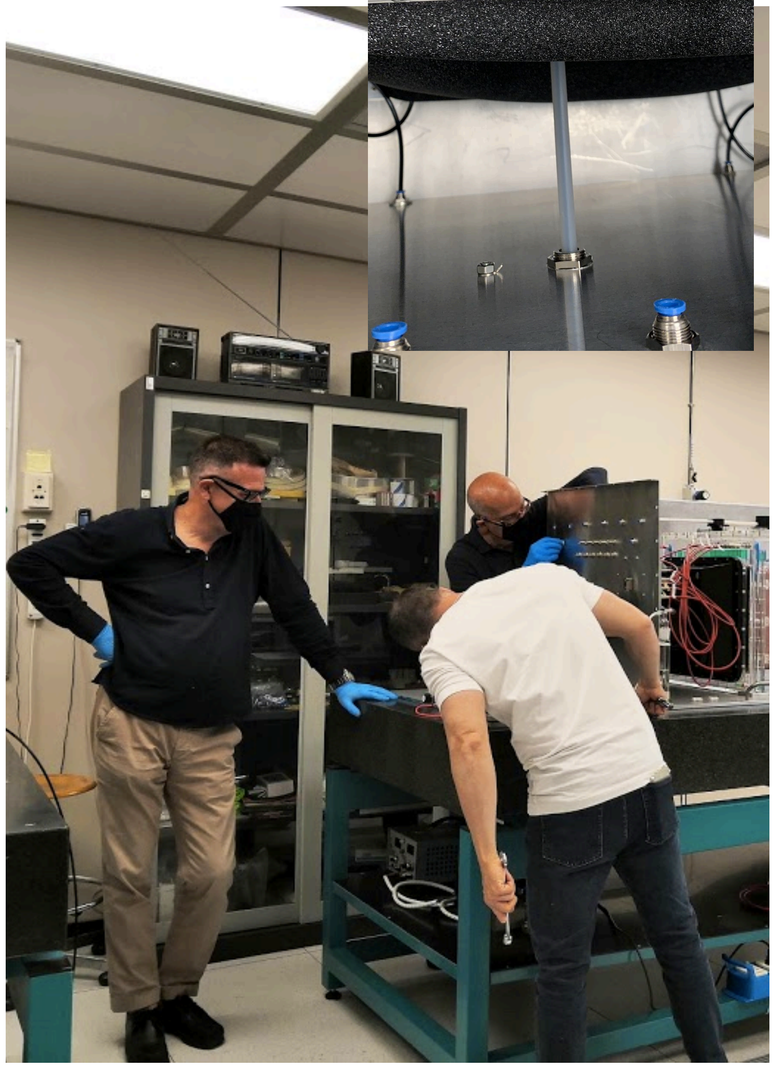
- new gas distribution system completed, the mixer (test calibration etc) is under review He-CF4-SF6 + N2
- clean chamber, without the substitution of HEPA filter looks to be ISO7 (10.000!)
- clean out of building 48 (using spere materials of 28)

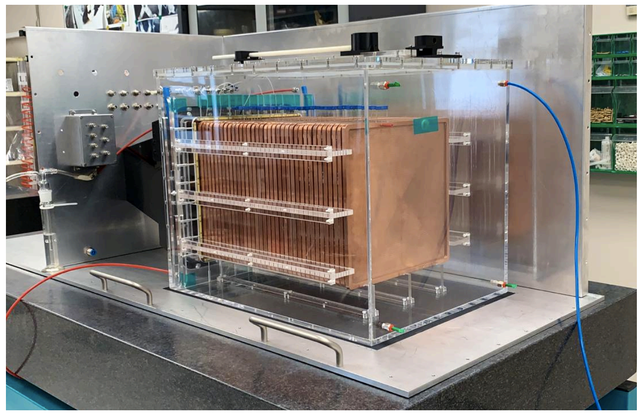


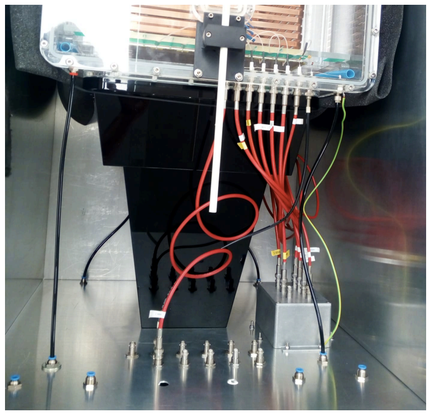
LIME assembly

- we decide to not switch the plexiglas vessel
- some minor problem with connectors (too many ;)) but seems that we have all that we need
- ready to be close! (hv gem, field, gas…)
- a test and measurements schedule is needed





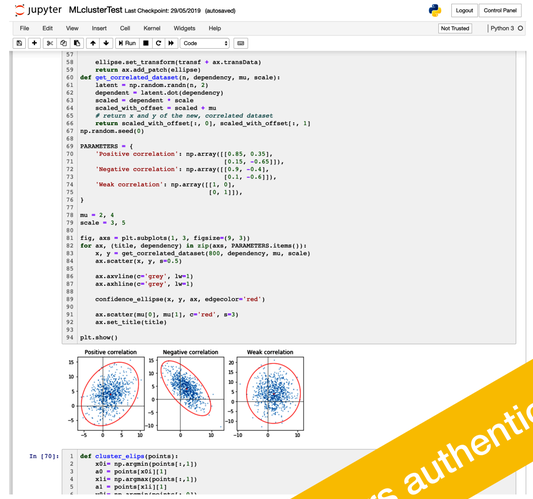




INFN-CC @ LNGS-LNF

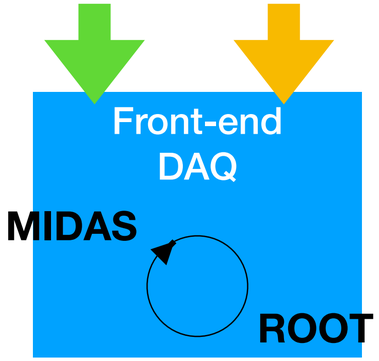
https://notebook.cygno.cloud.infn.it/

JupyterHUB notebook: Python3, PyROOT, ROOT



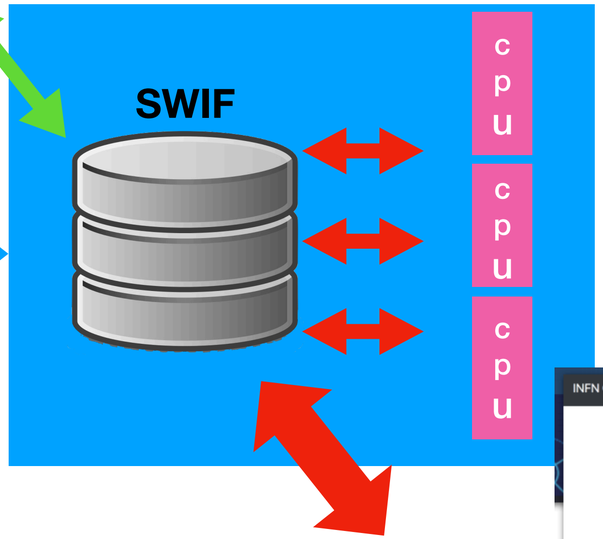
BACKUP (CNAF)

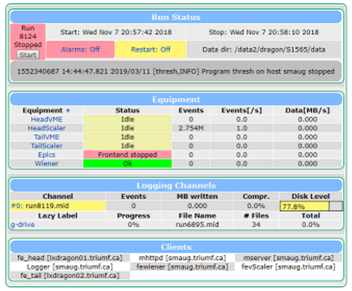
data **aux channels**



LNF/LNGS

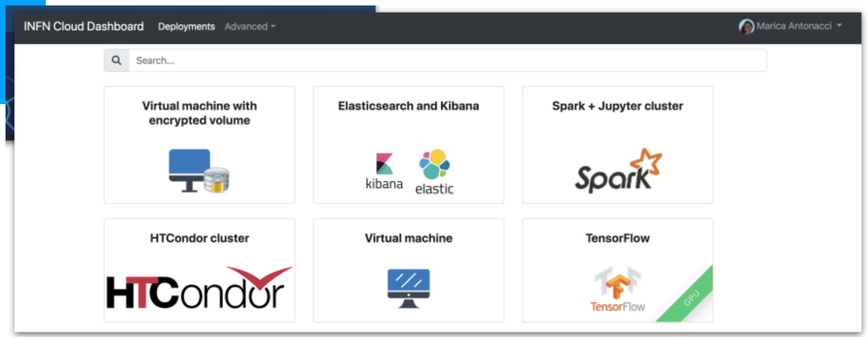
INFN-CC





MIDAS run control and slow control

AAI users authentication



User HTTP queries

today throughput 10-100*16MB/s

tomorrow @LNGS 0.01*16MB/s

Computing request to CNAF

- swift: DATA storage, what about reconstruction and simulation repository?
- 10 TB disk space at LNGS done (see previous question)
- Purchase of CPU and LAN switch for LNGS:
  - LAN: HPE 5700 40XG 2QSFP+ Euro 2.429,46, HPE X140 40G QSFP+ LC LR4 SM Euro 1.420,64, , HPE X120 1G SFP RJ45 Euro 57,16, HPE X120 1G SFP LC SX Euro 44,82
  - CPU: Dell EMC PowerEdge R7425 (1 AMD EPYC, 64GB RAM, 2x600GB 10K RPM SAS), Processore aggiuntivo AMD EPYC 7301 2.2GHz/2.7GHz, 16C/32T, 64M Cache (155W/170W) DDR4-2400/2666, Memoria aggiuntiva Dell 64GB - 4RX4 DDR4 LRDIMM 2666MHz, Scheda 10Gb/s QLogic 41112 Dual Port 10Gb SFP+ Adapter Low Profile, 2 dischi 960GB SSD SAS Read Intensive 12Gbps 2.5in Hot-plug Drive, estensione della garanzia di ulteriori 2 anni per un costo di circa 5KEuro + IVA.
- CNAF/CLOUD 2021: 100 CPUs + 3GB/CPUs + 20 TB + tape
- ROOT/GEANT/GARFIELD/Notebook…, scheduler (CONDOR), DB SQL (reconstruction & simulation logbook), …