

Meeting CYGNO News

GAS System

On the 4th of August, the system was sent back to Air Liquide for repair;

Last Monday we received an “informal” report:

- all system was checked and no issues were found;
- some dust was found in a check valve that was replaced;

We installed a second check-valve on the inlet of the recovery bottle;

The idea is to have the system back asap and perform a test in-situ;

Likely we can resume data taking by the end of October;



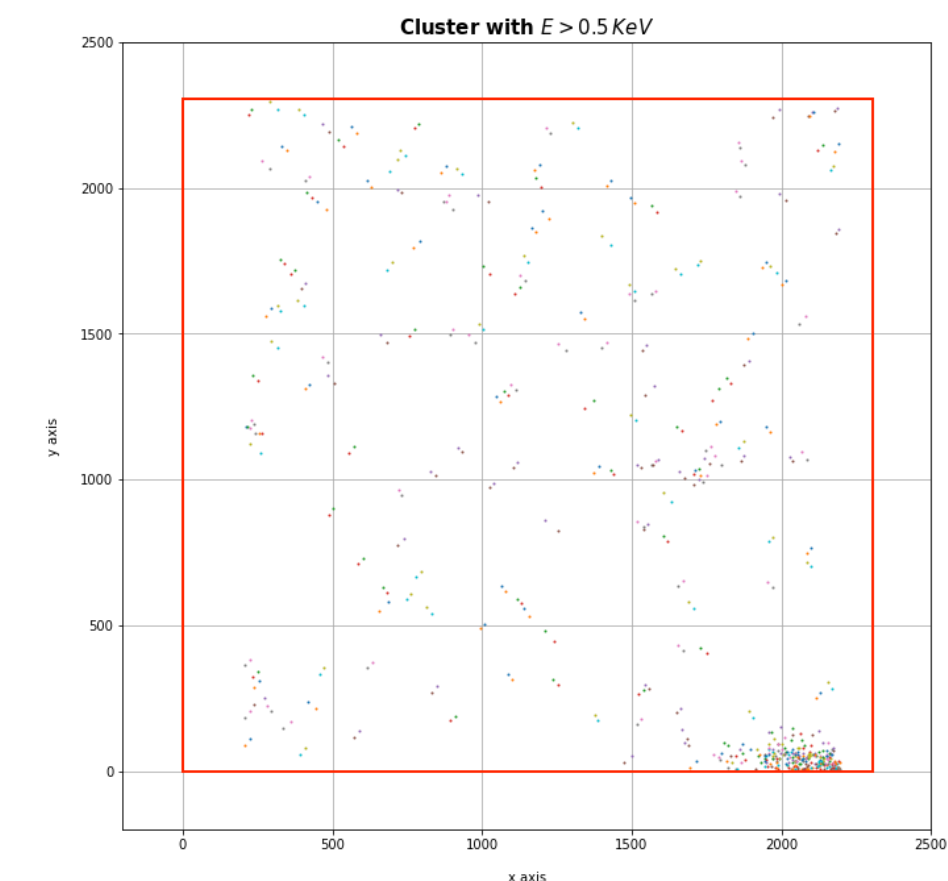
LIME in the meanwhile

We took data to calibrate 4 PMTs at LNF to substitute the “helium-damaged”, analysis on-going by Mariana in CBPF;

We took sensor-blind pedestal runs to compare with those taken in July to check the source of some hot corner (light?);

2436	S000:DATA:Pedestal, blind camera	2022-10-11 12:23:52	0.2
↓			
2478	S000:DATA:Pedestal, blind camera	2022-10-12 11:07:52	0.2

To be reconstructed



We took also pictures with camera in different positions to test software for the mechanical alignment;

LIME in the meanwhile

We are also starting the procedures to have the AmBe source for underground tests in LNGS;

We are studying how to produce multiple energy X rays by using ^{241}Am source + suitable target materials;

The trigger module was updated to be externally programmable and included in the MIDAS framework;

An **upgrade DAQ** and systems to reduce dead time is under study;

Yesterday intervention on:

- install CMOS water cooling system;
- ethernet switch;