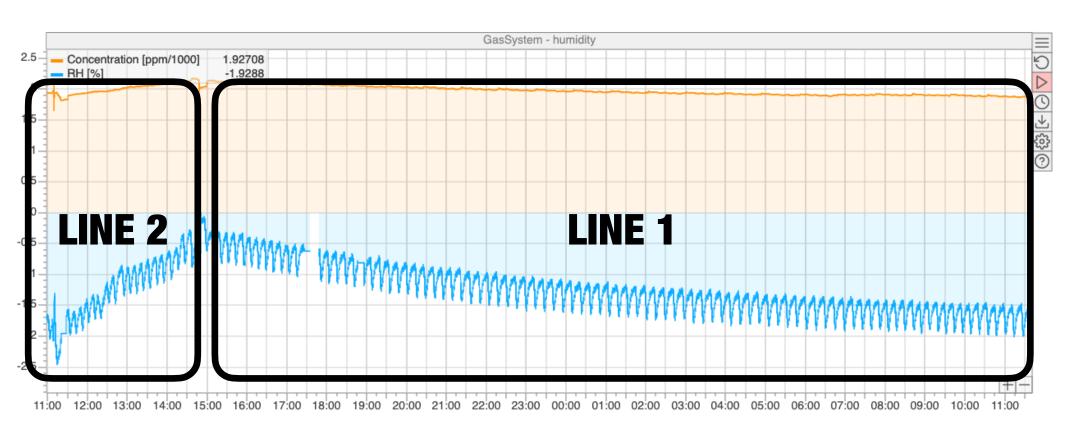
CYGNO status, 27 Sept 2023

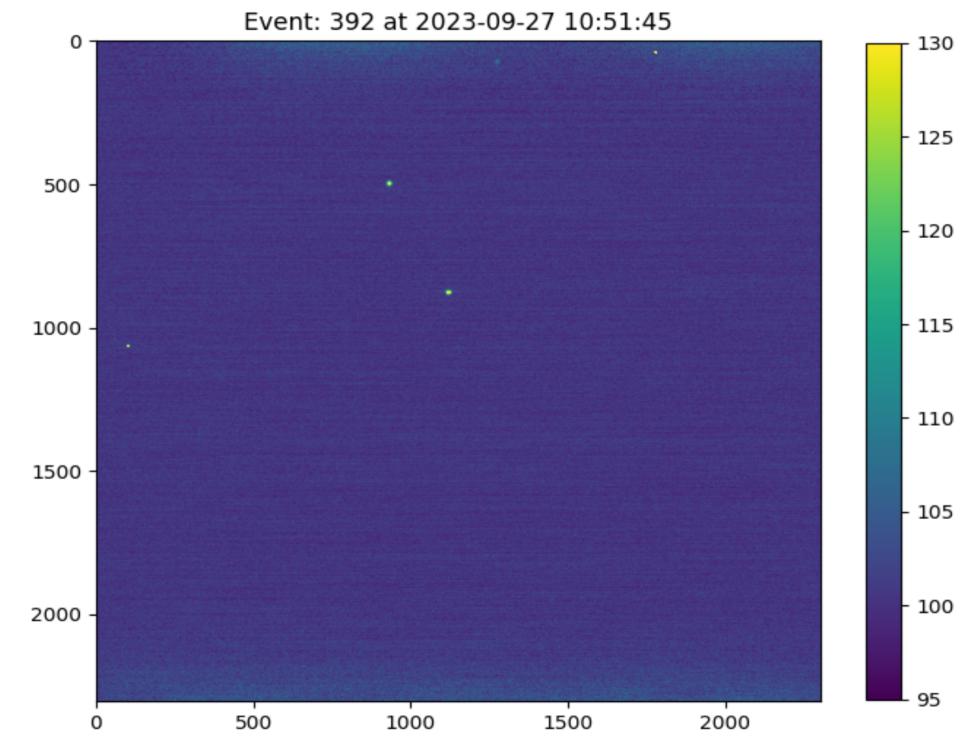
LIME: Run3

 Last week there a successful intervention on the gas system that is working since a week;

- Yesterday the GEM HV was turned On and we started to take "stability runs" with ⁵⁵Fe in position #3

- We tested both the filter lines and line2 seems not able to control humidity, while line1 is working fine.

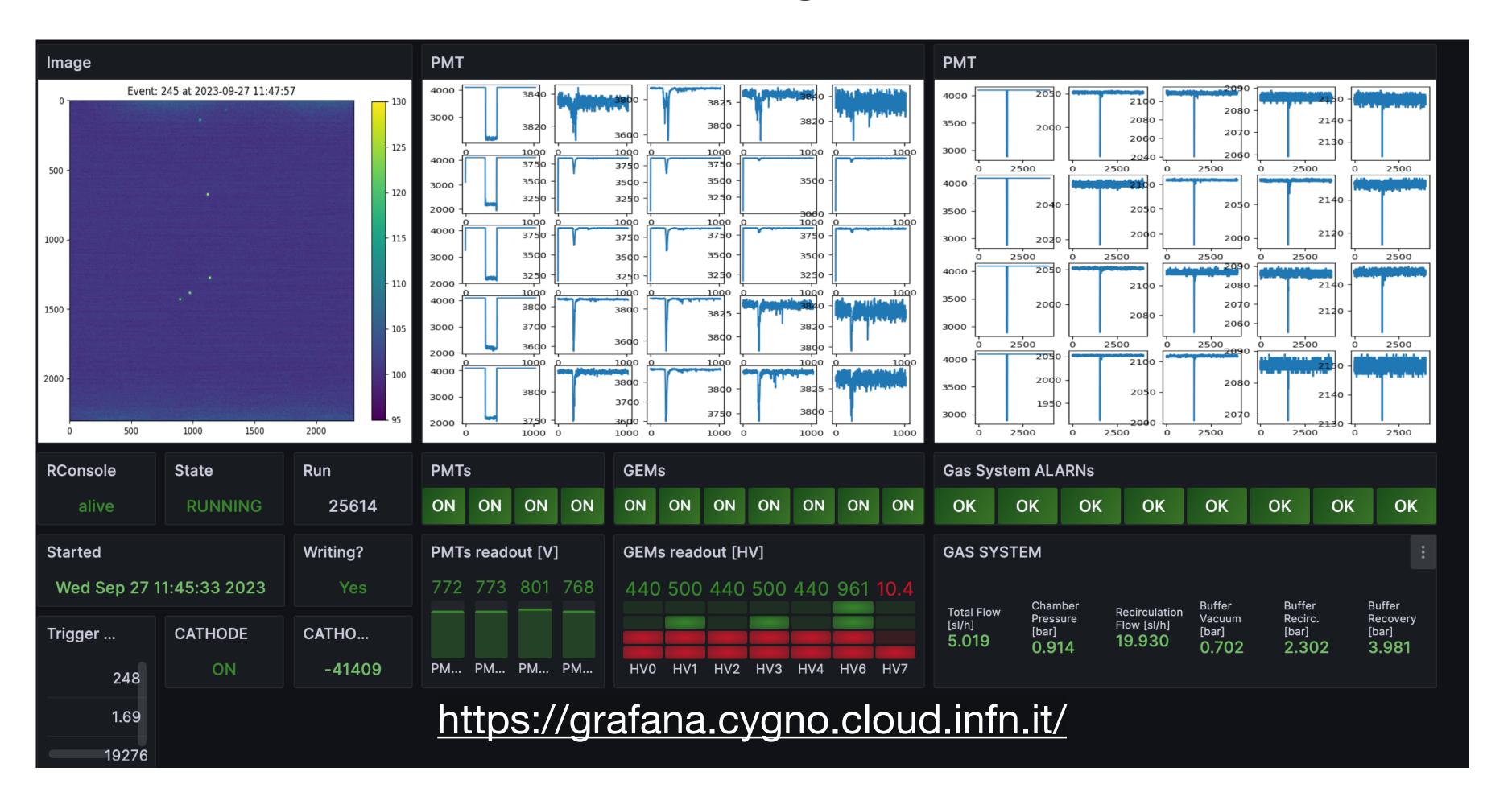




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LIME: Run3

- Automatic reco and remote console are working fine



Davide Pinci - INFN Roma

Program for next months

- 1. Tuesday, 26th Turn on HV and start stability tests
- 2. Friday, October 29 start with bkg + daily scan
- 3. Tuesday, October 10 Ba source
- 4. Tuesday, October 17 Eu source
- 5. Tuesday, October 24 55Fe without collimator
- 6. October 26 start start with bkg + daily scan
- 7. November 6 end of Run 3
- 8. Water shielding installed in November
- 9. Start of Run4 in December

Points 8 and 9, still to be confirmed

Test with high energy X rays

Radion.	Code	Present activity (kBq)	Date of production		
Eu-152	027	29.19	01/10/1996	Barium	Eu
	020-	410 47	01/07/1000	$\Omega \Omega L(\alpha) / \Omega E \Omega /$	10 100/
CO-00	UU Z	ے2	01/02/2002	30 keV 95%	40 keV 38%
Ba-133	063	116.33	01/01/2002	35 keV 22%	45 keV 15%
D2-226	064	94 45	01/06/2002	00 KC V ZZ /0	TO IXC V 10/0
				81 keV 33%	121 keV 28%

http://www.lnhb.fr/nuclides/Ba-133_tables.pdf

http://www.lnhb.fr/nuclides/Eu-152_tables.pdf

INFN - Referees and Committee

- Report of INFN referees to the Scientific Committee was quite positive;
- The successful data taking of Run3 and AmBe has been well received;
- They anyway pointed out that there is now a lot of work to do to completely analyse and understand the data and to compare them with the Monte Carlo;
- There were three main requests:
 - 1. organising a meeting for the next April to show them the final results for Runs 1, 2 and 3 and the preliminary of Run 4;
 - 2. preparing a Quality plan for Cygno-04, i.e. a document describing the results of the scrutiny of the material and procedures used to assemble CYGNO-04;
 - 3. updating the Collaboration Letter with foreign institutes to a formal LoI;

INFN - Referee and Committee

- On point 1, with the help of Giulia and Emanuele, we are trying to organising and coordinating the analysis and simulation tasks with aim of converging on the needed results;
- On point 2, there was a work started by Anna (LNF student) now on another project. We should re-organise a task force, that selects material, tests them, simulates them and asses the final quality level;
- Point 3 requires a discussion in Steering Committee
- In general, I think that all those points, should be discussed in the SC;