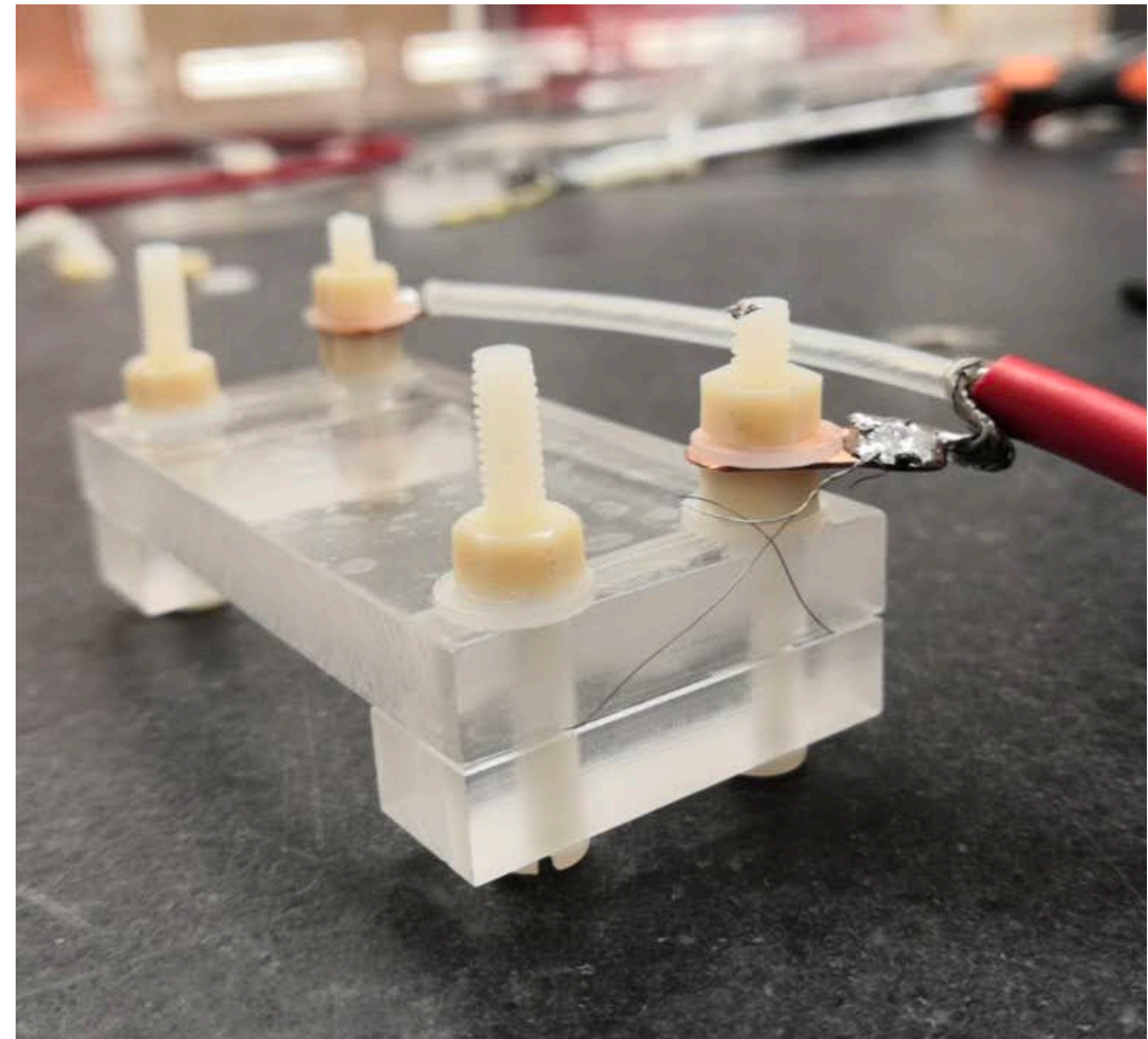


**Design & Integration  
update 22/4/2021**

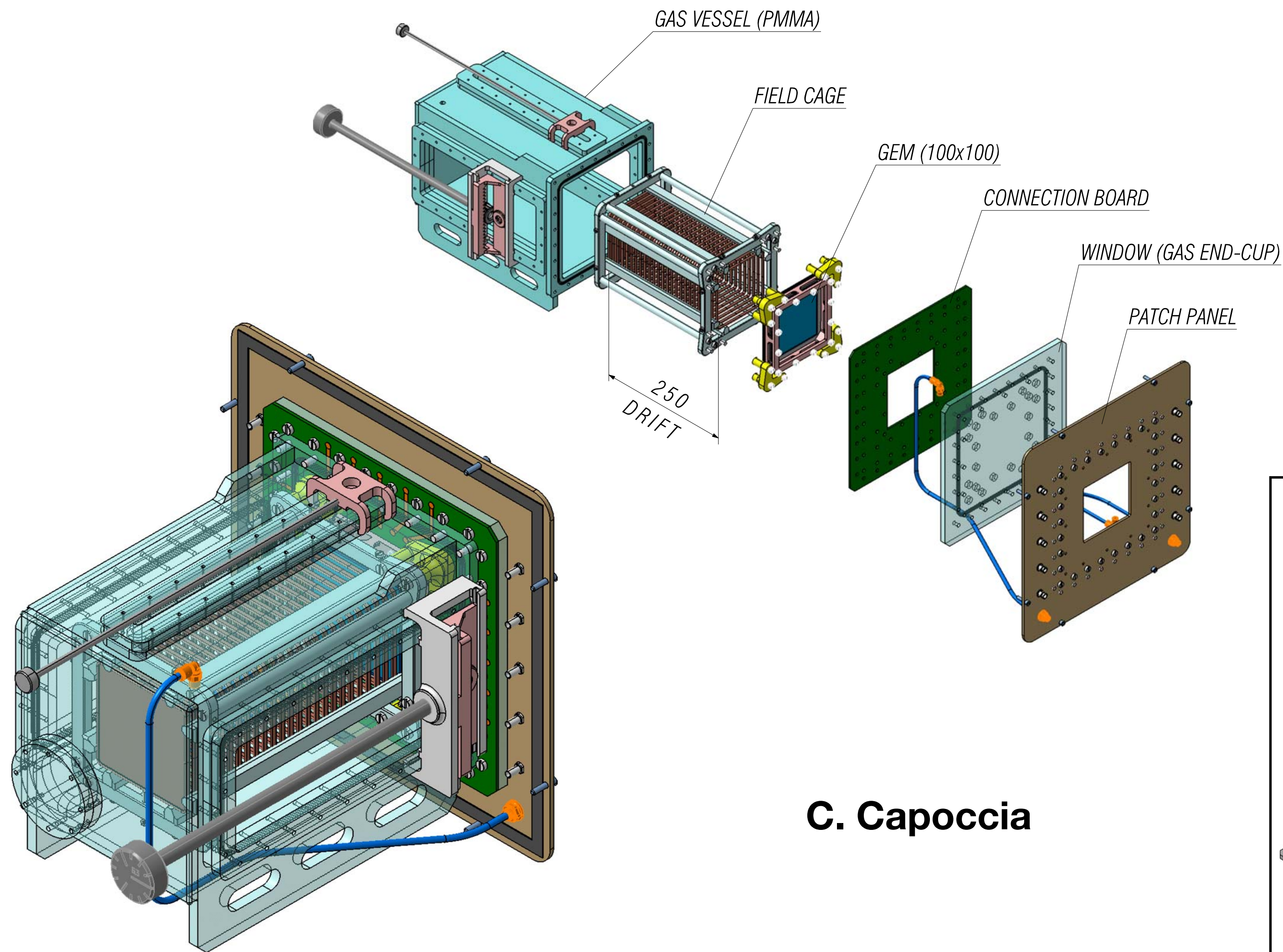
# what's going on at LNF

- LIME → qualification & design shielding underground (Chiara)
- LEMON test for migdal test (Donatella+PhysLabII)
- KFC test
- MANGO<sup>2</sup> design → ready to be delivered (KIWI)
- LIME2 → GEM, etc
- GAS system test
- DAQ system test
- DATA storage and Cloud test
- Meetings:
  - Every Tue at 9 a.m. → design and construction meeting
  - Every Fry at 10.30 a.m. → CYGNO/LNGS technical meeting (NIER/LNGS Services)
- <https://meet.google.com/fqs-ymab-aiu>

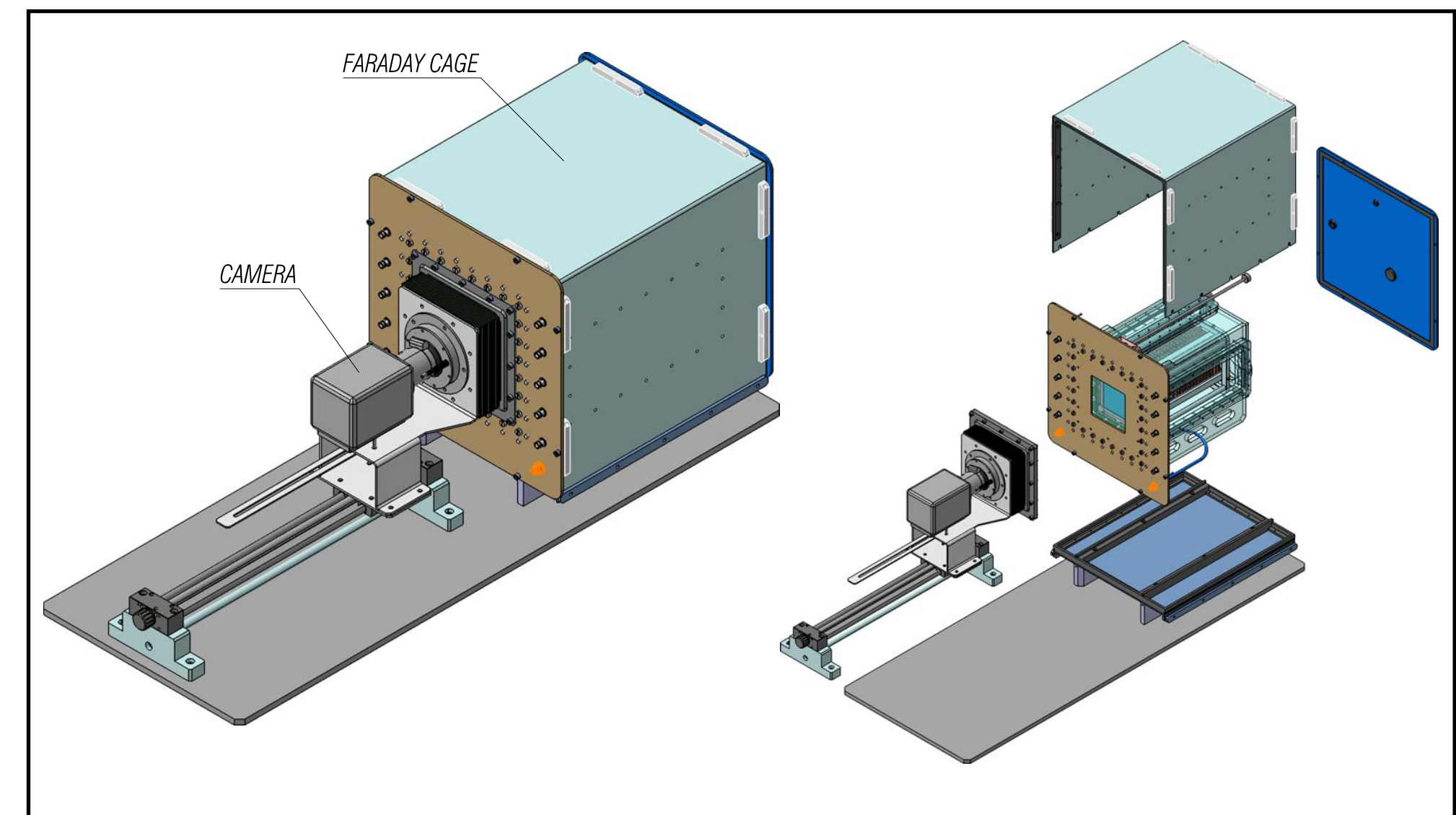




# KIWI



**C. Capoccia**





# what's going on at LNGS

- “LIME Fascicolo Tecnico” v4.0 completed and under review of LNGS services
- PRA completed and under review of LNGS services
- Environmental evaluation completed and under review of LNGS services
- Order for civil refurbishing done —> (45 days)
- All documents/cads are collected and updated in <https://drive.google.com/drive/folders/17LBtmhK4RciyOlz0xGLvdHrFsE1ADekm?usp=sharing>

Top Event		Freuenza	Danno	
A	Rilascio liquido	A.1	3,44*10 <sup>-3</sup> [ev/anno]	Effetti minori
		A.2		Non effetti rilevanti
B	Rilascio gassoso	B.1	1,85 * 10 <sup>-3</sup> [ev/anno]	No effetto rilevante
		B.2		Effetti minori
C	Rilascio gassoso (prima del riduttore)	C.1	3,49 * 10 <sup>-5</sup> [ev/anno]	No effetto rilevante
		C.2		Effetto seri

Tabella 20 - Top Event Residui

Conseguenze		Freuenza annuale crescente					
Severità	Risorse	Evento praticamente e non credibile	Evento raro	Evento improbabile	Evento credibile	Evento probabile	Evento probabile / frequente
		< 3 E <sup>-4</sup> ev/anno	3 E <sup>-4</sup> – 3 E <sup>-3</sup> ev/anno	3 E <sup>-3</sup> – 3 E <sup>-2</sup> ev/anno	3 E <sup>-2</sup> – 1E <sup>-1</sup> ev/anno	1E <sup>-1</sup> – 1 ev/anno	> 1 ev/anno
1	No effetti rilevati	TOP EVENT C.1	TOP EVENT A.2	TOP EVENT B.1			
2	Effetti minori		TOP EVENT A.1	TOP EVENT B.2			
3	Effetti seri	TOP EVENT C.2					
4	Effetto maggiore						
5	Letale/ Effetti irreversibili						

Tabella 21 - Matrice di rischio Top Evet

# Data Storage and INFN-Cloud test

- beta please access to test <https://notebook.cygno.cloud.infn.it:8888/> - v2 stable
- alpha test - v5 (issue with file systems etc under solution)
- Data storage:
  - new data link: [https://s3.cloud.infn.it/v1/AUTH\\_2ebf769785574195bde2ff418deac08a/cygnus/Data/LAB/histograms\\_RunXXXXX.root](https://s3.cloud.infn.it/v1/AUTH_2ebf769785574195bde2ff418deac08a/cygnus/Data/LAB/histograms_RunXXXXX.root)
  - <https://minio.cloud.infn.it/>
  - POSIX: /workarea/cloud-storage/cygnus/ from cygno container
  - data roottalo and upload for daq machine tested and ready to be set as service: we have to check stability and debug some issue due to token configuration
- Talk at CCR <https://agenda.infn.it/event/25889/> 28 May

