

Weekly Reports - GIF⁺⁺ Users Meeting

Meeting :29.01.2026 09h

Present : Mapse,Victor,Paolo, Mattia, Katherine, Jose, Giuseppe, Ezio

Announcements from GIF⁺⁺ Coordinator

Please don't forget to wear your PPE while in the Hall, in particular the HELMET

Activation of the operational dosimeter is MANDATORY to access the preparation area

Maintenanace access system done

RP supervision signal test done

Cooling system prep. area removed

Need an access tomorrow Fri Jan 30th around 11am for a technical visit (estimated time 30 min)

AUL test done last week --> everyhting went well on the side of the safety.

Unfortunately, multiple power cuts occurred during the test, and some setups did not restart automatically.

A general electrical inspection was carried out as well; no major issues were identified!

Please, do not forget to submit the IMPACT and the ISD https://ep-th-safety.web.cern.ch/GIF_ISD

In case you need to work inside the bunker for cabling, gas installation etc, we can add you on a general IMPACT we have for the facility. In this case, please provide the names.

GIF⁺⁺ extention project starting on Feb. 23rd:

- Preparation area almost ready for the extention project:
 - all the users cables going from the prep.area till the bunker are removed. We only left the cabling for the ATL-RPC upgrade (MPI) that will be removed once the test is over.
 - electrical cabling going to the green racks, have been disconnected and a lookout has been issued
 - green racks moved away from the wall. Still to move towards the exit the blue CMS rack
 - decabling / recabling of the gas detection system (both ours and the PPE144) done. The IS37 is staying active till the end of the extention.
 - AUG cable to be disconneted, and reinstalled
 - EN-EL cabinet to be moved
 - XTDVs cable to be disconnected and reinstalled.
 - access system cables (2) to be disconnected and moved
 - cooling pipes to be disconnected and moved away from the bunker
 - EN-AA cables rerouted
 -



- Bunker area
We would start as soon as possible with the decabling of all the setups, especially the one not in use.
To do that we prefer we will meet on site during next days and we will check what we need to do with the responsible of the setup
- "Storage" area during the extension
Please start to provide how many setups you would leave in the storage area, the services needed and gas type.
In terms of gas request:
argon

YETS 2025 / 2026

IMPORTANT DATES:

EHN1 DS0 test 19-20 February

New GIF++ facility monitoring:

<https://gif-monitor-grafana.web.cern.ch/d/demgykkrhmxhcf/gif2b-2b?orgId=1&refresh=5s>

~~

YETS: Start December 8th, Physics start March 13th 2026 (Preliminary)

Discussion on possible use (DRD1 main stakeholder) of 887/R-Q11 progressing well

Bunker extension: progressing

Searching for storage space, please report at next meeting

CMS ECAL kindly agreed to let us use some space in their area

Extension must be completed before LS3

TEST BEAM 2026: possibility to have the first slot starting May 4th

Likely, second end of July (DRD1)

Annual User Meeting:

December, 8th in 53/R-044

<https://indico.cern.ch/event/1601160/>

Micro workshop on use of cosmics:
<https://indico.cern.ch/event/1560961/>

⋮

!!!! MATTERMOST channel (gif-users) available !!!

:::info

Safety:

:::success

New Safety Form (ISD) available https://ep-th-safety.web.cern.ch/GIF_ISD

Safety courses:

****> - ATEX - Level 0 https://lms.cern.ch/ekp/servlet/ekp?PX=N&TEACHREVIEW=N&CID=EKP000044586&TX=FORMAT1&LANGUAGE_TAG=en**

- First Aid - SST Initial (workplace first aider)
 - ATEX Habilitation - Level 1 <https://lms.cern.ch/ekp/servlet/ekp?CID=EKP000040032&TX=FORMAT1&BACKTOCATALOG=Y&DECORATEPAGE=N>
 - F-GAS https://lms.cern.ch/ekp/servlet/FORMAT1?CID=EKP000039939&LANGUAGE_TAG=en
- ⋮

Weekly Reports :

Please update before or during the meeting !

ATLAS-RPC-Legacy: (Giulio, Sinem)

- We need a HV scan for 2-2.5h for different ABS factors(Source off, 3.3, 10, 33) for Friday June 06th
SENSOR for flammable

ATLAS-RPC Conditioning: (Marco, Giorgia, Ludovico)

- The conditioning of the BI pack started, and it needs 1 week under radiation and at the end of the week an HV scan with different ABS factors.
- In each 2 weeks there will be 1 trolley which includes 24-25 gas gaps.
- Each trolley will stay in the bunker for 1 week.

ATLAS-MM: (Valerio)

System status

- Cables (HV,lemo,ethernet,fibers) removed from upstream wall and placed next to the source.
 - Waiting CSC to move out to proceed with the routing to the rack area in the next weeks.

- Both setups in parking position and flushing Ar:CO₂. Will be moved to storage area in January/February.
 - Crane movement to be organized.
- Plan to move electronics from the racks (now) in the storage area to rack area before/during the extension works.
- New approved IMPACT: 279169

Requests

- Removal of downstream/corridor floor tiles needed to route cables to rack area

ATLAS-sTGC: (José, Stergios)

IMPACT has been submitted and approved for 2026 (279283). If there is anything else needed please reach out! :smile:

Removing services

- We will start next week on Wednesday, although we could benefit from extra access on Thursday and Friday.
- We would need detectors to be moved away from the wall (CMS CSC, ATLAS MDT, CMS RPC) to access pipes and HV cables with no risk of damage.

System status (22.01.2026)

- Our setup has been running in stable conditions last year, besides some instabilities in flowrates and pressure in the system after npentane tank is refilled.
- Our two wedges were transported to BB5 in December. These will be brought back this year (February-March) to GIF++ to continue irradiation tests.

Requests (22.01.2026)

To provide a reliable gas mixture to the detectors, we would strongly benefit from

- **heated pipes** for npentane:CO₂ mixture to avoid npentane liquification
- temperature monitoring in the trench
- monitoring of the outlet mass flow rate (value is used internally to trigger safety systems but not reported on GIF++ Grafana)

CMS-CSC: (Katerina, Victor)

- CSCs moved ~2m back from the Source to let MM be installed. Operating.

ATLAS-MPI: (Elena, Giorgia)

EP-DT2: (Mattia, Stefania, Max)

- GC removed, everything off.
- We still need to remove HV cables from the bunker: next Wednesday?

Ecogas: (Luca, Mattia, Katherine, Mapse)

29/01/2026

System status

- Setup has been moved outside of the bunker and all cables have been removed from the wall inside the bunker
 - Thanks alot to Giuseppe and Enzo for the help and for organizing the crane
- Currently flushing Ar in the area in front of the Ecal building and measuring fluoride production since yesterday
- Plan to keep the trolleys there until the bunker extension is completed

Requests

- None for the moment

CMS-RPC: (Katherine, Dayron, Mapse)

- **System status**

- Trolley 1 and trolley 3 moved to the ECAL storage zone;
- Detectors are flushing with wet argon;
- 3 detectores + 1 old frame are in the preparation area -> we plan to move them today to 904 building.

- **Requests**

- The large automatic door has been broken for some time.
- We opened a request for this issue:
 - https://dir-eambi-prod.cern.ch/pentaho/api/repos/:home:CERN:EAM:InforEAM:WorkOrderView/output-target=pageable/pdf&evt_code_var=36180349
- Please, if not yet done can you help us?

:::success

*** Upcoming events and workshops ***

EDIT school 2026

<https://indico.cern.ch/event/1472419/>