

Weekly Reports - GIF⁺⁺⁺ Users Meeting

Meeting : 06.04.2023 - 9h

Present : Francesco, Joao, A.Kaminisky, Lisa, Luca, Sinem, Valerio, Alessandro R., Mattia, Stefania, Katerina

Announcements from GIF⁺⁺⁺ Coordination

:::danger

- Current problem with the source control.
Intervention scheduled **3.04-4.04.2023** DONE--> Problem solved!
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YETS 22/23:

:::warning

- **05.04.2023 - DSO Test EHN1 beam lines**
::: !!! DSO TEST still to be continued today from 9am since yesterday it was not possible to finish!!!

Full list of electrical tests during YETS 22-23 : <https://edms.cern.ch/document/2768566/>

Safety:

:::warning

- Electrical inspection - Some safety remarks to be solved. Passed yesterday for all the setups. Few minor point still to fix but the majority of the last points are fixed
- NEW Safety Form under finalisation : ISIEC -> ISD !
We will move to the "Initial Safety Declaration" asap.
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- 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

:::info

NA - EHN1 Physics Start : 24.04.2023, stops end of September

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Muon Beam 2023:

:::success

Draft received : 3 x 2 week, shared with RD51.

Wk 17+18 : **Monday April 24th** - Wednesday May 10th (17 days)

WK 27+28 : Wednesday July 5th - Wednesday July 19th (14 days)

WK 34+35 : Wednesday Aug, 23rd - Wednesday Sept. 6th (14 days) - exact date not confirmed

yet

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See EXCEL file in Indico agenda & PDF file.

Weekly Reports :

Please update before or during the meeting !

ATLAS-RPC: (Giulio, Giorgia)

- No report

ATLAS-RPC-Legacy: (Giulio, Sinem)

- The detector was set up in the downstream area for the performance tests with different gas mixtures (30% and %40 CO2) and the ageing test. The starting date was 24.03.2023.
- We started our gas studies with one V-I curve and count measurement on 24.03.2023 afternoon for Source Off and ABS 3.3
- Thursday afternoon: Starting with the standard gas mixture for 2h as point 0 for ABS 1, 10, 22, 46, 100.

ATLAS-MM: (Valerio)

- Both setups powered ON and accumulating charge
- False-floor trolley moved back close to the source after the intervention on the source control of monday.
- False-floor trolley is off the beam path for the installation of the beam pipe next week
- Ar:CO2:iso bank ~empty, will connect today the new one in the corridor. Transport needed to move the empty bank outside and get a new one

CMS-CSC: (Katerina, Victor)

- chambers are commissioned,
- gas system in closed loop from Monday
- irradiation to be started today

CMS - HGCAL (Elena, Sasha)

- dry run is finished, the setup is removed (cables included)
- thanks to everybody for help !
- we may come back in a couple of months (june-july 2023)

ATLAS-MPI: (Elena, Giorgia, Francesco, Markus)

- **Setup Maintenance**
 - setup currently safely stored in the preparation area;
 - postponed installation in **mid-April**
 - installation setup and services for the RPC prototype scheduled for the

week between 17th and 23rd April

- **Weekly Planning**

- nothing to report

CMS-GEM: (Davide, Ashok)

- No presence during April/May test beam

EP-DT2: (Mattia, Stefania)

- New ecogas set-up safety issue resolved, we have swapped between the old and new setup.
- The set-up out is out of the beamline.
- Irradiation campaign ongoing without any further issues, nothing else to report.

Ecogas: (Luca)

13/04/2023

News:

- Currently flushing ECO2 (35/60 HFO/CO2)
- New gas distribution system started yesterday (big thanks to Mattia and Gianluca), minor adjustments needed but most of the work is done
- SHiP RPC has been removed from the bunker and tests will be performed in the lab between this and next week
- Plans to resume aging

Access request:

- We might need a 30 minutes/1 hour access in the afternoon today, to be confirmed around lunchtime

CMS-RPC: (João)

- We provided the gas used in 2021 and 2022 by e-mail.
- Next Wednesday we will do the CO2 gas connector to Trolley 3.
- Trolley 1 and 3 are already out of the beam line.
- No access request.

CMS-DT: (Lisa)

- nothing to report

ProToV: (Alessandro)

- Plan to put the trolley in the upstream side to start the aging test of the small prototypes
 - Check the trolley placement and the service routing
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Procedure to restart the system

SOURCE ISSUE GIF++

Source status OFF -> trying to switching ON the source via the START button (g)

The source is trying to go ON but, even if the unsafe button (a) and the red light (c) shows the SOURCE ON, the elapsed time (b) doesn't start.

We are able to prove that the source didn't go ON since the ionization chamber (PMIs) and some other dosimeters in the bunker, shows a dose/rate = ~ 0 uSv/h. Moreover, also the access system gives us the possibility to access the bunker since the PMIs don't shows any radiation.

In order to turn the Source ON we are obliged to power cycle the control unit via the ON-OFF key (e). After this reset, we are able to switch ON the source.

Source status ON à trying to switching OFF the source via the STOP button (f)

The source doesn't go OFF

We are able to prove that the source didn't go OFF since the ionization chamber (PMIs) and some other dosimeters in the bunker, shows a dose/rate > 0 uSv/h. Moreover, also the access system doesn't give us the possibility to access the bunker since the PMIs shows high radiation level.

In order to turn the Source OFF we are obliged to power cycle the control unit via the ON-OFF key (e). After this reset, the source goes OFF.



Current minutes by the respective speakers, edited and commented by Martin & Giuseppe.
Minutes from previous meetings can be found attached to the respective
page as PDF.