

Weekly Reports - GIF⁺⁺⁺ Users Meeting

Meeting : 16.02.2023 - 9h

Present :

Announcements from GIF⁺⁺⁺ Coordination

:::success

Current problem with the source control : Procedure received from VF applied. After that, the irradiator was working as normal. Need to see if this solution is permanent (until next maintenance).

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Irradiator currently OFF. Please check with Giuseppe before turning it ON.

YETS 22/23:

:::warning

- 05.04.2023 - DSO Test EHN1 beam lines

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:::info

Results from AUG test : Access system was blocked yesterday. Several experts called in. Finally access and operation was possible, however false message "Manual Veto" still displayed on screen. To be fixed today.

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:::warning

- 08.03.2023 - Gas detection system maintenance -> no isobutane for few minutes
- 15.03.2023 - Fire detection system maintenance -> no isobutane for few minutes

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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 points 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)

:::info

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

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Muon Beam 2023:

First Pre-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)

and "maybe" week 36 (unclear at this time)

Weekly Reports :

Please update before or during the meeting !

ATLAS-RPC: (Giulio)

- We will operate the BIS7 Mod.zero in the usual position at the end of downstream area, we will turn on the chamber by the first week of March and will participate to all test beams
- We expect to add a Phase2 prototype before Summer, we will study how to integrate it in the present frame to avoid any further space occupancy

ATLAS-RPC-Legacy: (Giulio)

- We will add, right in front of of ATLAS-RPC, a smaller stand with a 2mm RPC ATLAS-like doublet to validate the standard mixture with additional CO₂. The base area of the setup is 70x60 cm² and 2m high. It is supposed to perform a fast ageing test and periodical performance scan with the beam. The results will validate the use of such mixture in ATLAS RPCs
- this stand is on wheels and is light and easily moveable
- expected to be installed in February and participate to all test beams

ATLAS-MM: (Valerio)

- Both setups in position, powered OFF for safety during AUG test: HV, PCs, CAEN MainFrames, ...
- Plan to power back ON everything today/tomorrow
- Performed a couple of quick source scans, on thursday and monday, to test the currents of the small 40x40 cm² chamber, same behaviour seen.. needed intervention on the chameber in lab
- Preferred beam slots: July WK 27+28, August-September WK 34-36 (better 35-36)

CMS-CSC: (Katerina)

- chambers are connected, still under commissioning
- need several more "source off" sessions to get them prepared for irradiation
- gas - currently in open loop, to be swapped to closed loop before the weekend

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

- **Setup Maintenance**
 - setup currently safely stored in the preparation area;
 - the plan is to come back to the bunker by **March 2023**:
 - Test of evolutions of the new front-end electronics for the sMDT

chambers (with muon beam / cosmic ray muons at different γ background levels);

- Performance and aging test on the RPC prototype produced by the new manufacturer (Plan to integrate RPCs into the sMDT set-up).
 - Test of small size RPCs (50cm × 50cm)
 - Test of large size ATLAS RPCs (1m × 2m)
- **Preferred beam periods:** May 2023, July 2023, October 2023.

- **Weekly Planning**

- 15:00 - 16:00, quick access to the bunker - survey for future installation of RPC / sMDT detector services

CMS-GEM: (Davide, Ashok)

- 2023 plans only for test beams, see you soon :)

EP-DT2: (Mattia)

- Next Wednesday(?): request to stop R134a, iC4H10, SF6, Ar main supply for about half day. No need to stop CO2, He, N2. -> needed to complete the new gas rack installation.
- Irradiation campaign ongoing without any further issues.
- Dosimeter beeping: if too annoying, you can mute it from the bottom with the draw of a speaker. DON'T SWITCH IT OFF.

Ecogas: (Luca)

- 16/02/2023
- Detectors are flushing with ECO2 gas mixture (35/60 HFO/CO2)
- We stopped all the system except gas for the AUG test, will switch back on today and resume aging
- Discussion with the group to decide which beam periods we will participate to

CMS-RPC: (João)

- Nothing to report. iRPC tests in T3 are going well.

CMS-DT: (Lisa)

- while switching everything on now, not possible to recover the Windows PC; after this is recovered hopefully recovered, no requests for this week just continue irradiation at 2.2

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.