

Weekly Reports - GIF++ Users Meeting

Meeting : 4.11 - 9h

Announcements from GIF++ Coordination

Next Beam Time : 10.11.2021 (17h) - 15.11.2021 (6h)

Irradiator stop :

- 5 days needed to install security system before christmas shutdown.
Current proposal : 16-18.11 + 23-24.11
 - Irradiator Maintenance : First week after Christmas Closure (10-14.01.2022).
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Weekly Reports :

Please update before or during the meeting !

ATLAS-RPC: (Luca, Giorgia)

- Report from Muon test beam :
- We would require a fast access this morning and a longer access when possible. We plan to do some run with and without source during the week.

ATLAS-MM: (Alan)

- Report from Muon test beam :
- - Weekly Planning
 - ==> 18th Nov
 - ==> SM1-M40 in the bunker until the end of the year - cooling done from GIF Bunker
 - [LV ICS near the irradiator]
 - ==> request for several filter scans until the end of year [1 / 2.2 / 4.6 / 6.9 / 10] Downstream [3 hours]
 - ==> plan to have SM1-M40 under gas during winter shutdown
 - ==> ATLAS-NSW MM Rack in Prep Zone for long term [2022 data taking]

ATLAS-sTGC (Estel, Margaret):

- Yesterday the sTGC frame/chamber were removed from the MM setup and also from the bunker
- The small HV/gas bubbler stand also removed from the bunker, now in the cage area near loading door
- Transport for the sTGC frame/quad and for the sTGC electronics rack are scheduled (RP measurement done on frame/quad), forseen for tomorrow
- Gas is still on in CO2 only mode flushing in a closed loop, can be turned off
- Do we need to restrain cables more?

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- Report from Muon test beam :
- Had a largely successful testbeam, shared cooling and ICS with MM
- Were able to take data with tilted and vertical quad positions, at many interesting attenuation points, with muon beam and some points with no beam, with GIF++ and sTGC scintillators

CMS-CSC: (Katerina)

- Report from Muon test beam :
- Weekly Planning
- Tuesday+Wednesday: ME2/1 re-connection, ME1/1add to be moved outside
- Gas issue last week - to be followed up

RER21/CBM: ()

Will arrive for the November Beam time only.
 RPC chamber is shipped from VECC. Approved position is fine with us . 50 cm space along the z-direction will be perfect.
 we need RPC gas (CMS wet gas will be ok)
 For GEM, we need one premixed cylinder of Ar+Co2 (70:30).

ProTOV: ()

- Report from Muon test beam :

ATLAS-sMDT (Elena)

- Report from Muon test beam :
- ATLAS-(s)MDT setup has been modified: all three sMDT detector prototypes are mounted inside the envelope of the setup.
- The setup has been moved to its final "Beam" position (the position is the same as in the September Beam test period).
- Mezz. cards have been installed back to the mini-BIS detector.
- New Faraday cage has been made and installed on the Mezz. cards of the mini-BIS.
- Temperature and pressure sensors have been successfully restarted. Detector control system - GUI is restarted and operated correctly.
- New MiniDAQ readout system needs to restart still. This will be done the next day. During the week, I would request multiple short accesses to restart the data acquisition system installed in the bunker.

RHUM: (Marco, Maria Teresa)

- Removed from bunker

EP-DT2: (Mattia)

- report from Nov. test beam:
 We manage to take all the data left from the Oct. test beam.
- Weekly Planning:
 - Request for new HFO bottles (ended yesterday)

- So -> request for a dedicated HFO gas line (we lost other 2 days of data taking...)
- Connection between EP-DT and ECOGAS setup were done yesterday
 - > Be carefull in moving both setup
 - > connection are temporary, needed for ISE measurement
- Tomorrow we will start ISE measurements on EP-DT set up:
 - > Today we decided measurement conditions:
Booked all the morning and first afternoon on TeamUp
- Where is the GIF leak detector?

Ecogas: (Mapse, Luca, Gianluca)

- Report from November test beam
- - **Chambers:** ATLAS, CMS, EPDT
 - Finished Oct TB data taking with ECO2: CO2 (60 %), HFO (35 %), iC4H10(4%) and SF6(1%)
 - Full test beam data analysis ongoing.
- Weekly Planning
 - HFO bottle changed on Nov 17th
 - Flushing detectors with ECO2
 - Setup ready for F- production measurements starting next week

CMS-RPC: (Mapse, Nicolas)

- Report from Muon test beam:
 - Consolidation system:
 - We performed several runs including double gap and single gap modes. In principle program is completed.
 - To be discussed the participation in the next TB.
 - Kodel chamber:
 - Runs with double gap and single gap mode also
 - Runs to compare with the iRPC demonstrator.
 - iRPC demonstrator:
 - Two chambers RE3/1 and RE4/1 completely validated with four FEBS.
 - Two more chambers of the same type to be validated in the next test beam.
- Request:
 - Source off
 - ABS 2.2 from Friday 16:00 to Saturday 16:00.

CMS-DT: (Lisa)

- Weekly Planning: re-start irradiation at 2.2 upstream.
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Current minutes by the respective speakers, edited and commented by M.R. Jäkel

Minutes from previous meetings can be found attached to the respective Indico page as PDF.