

Weekly Reports - GIF++ Users Meeting

Meeting : 09.06.2022 - 9h

Announcements from GIF++ Coordination

- Swap of the iC4H10 between the 907 & 909 (original place for the isobutane GIF++ supply line). The best date would be WED June 15th.
- July 06th maintenance gas detection system
- new storage area ready, just under the control room
- CF4 situation at GIF++
 - 20 bars(g) used since January 1st
 - still in stock 1 bottle with 80 bars + 1 bottle with 70 bars

Muon beam 2022 :

- Version 1.01 of schedule now available.
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Weekly Reports :

Please update before or during the meeting !

ATLAS-RPC: (Luca, Giorgia, Sinem, Ahmet)

- Not participated.

ATLAS-MM: (Francesco, Givi, Valerio)

update dated 09/06/2022:

- **Setup maintenance / Test Beam**

- the second period of the test beam was successful: joined only for 1 week, but we were able to carry out all planned measurements thanks to the new electronics and the higher trigger rate - analysis currently ongoing
- trolley (on false-floor) is 80cm from the source and close to the wall. Next week will be slid on the right to allow space for the CMS GEM setup. Then for July test-beam we will go back in the beam spot behind CMS GEM setup.
- Reinforced holding structures of both trolley and upstream chambers (the ones on the side of the source)

- **Weekly plan**

- continuation of aging studies with Ar/CO2/iC4H10 gas mixture for hanging trolley.
- next wednesday the cooling water tubes will be moved below the false floor in their final position for the rest of the year.

ATLAS-sTGC (for ATL-EIL4) (Luca Moleri, Shikma Bressler):

- request for testing the new type of TGC for the ATLAS-EIL4:
 - requirements:
 - * photon rate 450 Hz/cm²;
 - * no beam
 - * 2 chambers (size 160cmx85cm + support frame)
 - * period: 2 weeks from June 8th

CMS-CSC: (Katerina)

- Purifier replacement hopefully today 6:30 pm. Then several days purging + source ON test at the irradiation position. Then (if everything is ok) moving chamber to the TB position (Su or We).

CMS-GEM: (Davide, Michele, Ashok)

updated 09/06/2022

Slot for test beam: 13/07-20/7

- Coming back to preparation area 15th June
- We'll go back to the bunker as soon as we have manpower (we maybe will need 30min access to connect the services)
- Test with lead wall in front of the detector (1/2 day)
 - Detector in D1 position
 - Wall brick on a small table in front of the detector
 - Remove top bricks one by one rapid filter scan each time

ATLAS-sMDT (Elena)

ATL-sMDT beam time periods:

- week 17 : 25.04 - 03.05 - we operate like a parasite for the updating and debugging of the DAQ and DCS systems (no filter scan request)
- week 20 : 18.05 - 24.05
- week 21 : 25.05 - 31.05
- week 22 : 01.06 - 07.06
- week 28/29 : 13.07 - 26.07
- week 42/43 : 19.10 - 01.11

Info of the setup for the TB periods:

Current ATLAS-sMDT setup will attend the test beam.

Setup dimension: 1m x 2m x 3m, no extra expansion of the setup planned for TB week 17.

Setup is housing multiple chambers with tube lengths up to 2m.

ProTOV

- No report this week. Currently off.
Need to find a new space for trolley.
Planned for next Wednesday.

EP-DT2: (Gianluca)

Test beam

- Data taking successfully completed, all measurements taken
- We expect to participate again in July

Irradiation campaign

- Short irradiation starting this week up to July. We would need fixed ABS 2.2 upstream

Ecogas: (Mapse, Luca, Gianluca)

- Weekly Planning:
 - RPCs are flushing with eco-friendly gas mixture
 - Internal meeting today (June 9th) to discuss plan
 - Might need short (20 min or less) access tomorrow afternoon
- Test Beam:
 - Data taking campaign successful, tested 8 gas mixtures in 3 different RPCs. Data taken at source OFF + ABS 22, 10, 69, 4.6 and 2.2
 - All foreseen measurements were taken

CMS-RPC: (Ece)

- Weekly Planning:
- Test Beam:
very successful data taking.

CMS-DT: (Lisa)

- weekly report:
 - profited of filter 2.2 upstream during nights and some days when other users were not profiting of the source during TB (thanks a lot!)
- weekly planning:
 - today afternoon and tomorrow morning: multiple source scans (from filter 1 to 220)
 - 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 Indico page as PDF.