

# Weekly Reports - GIF++ Users Meeting

Meeting : 14.04.2022 - 9h

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## Announcements from GIF++ Coordination

- iC4H10 test done. Everything back in operation. The test started around 9am and finished at 1pm. At the end the main isobutane line was not down as expected. Very low flow was needed for the test.  
There will be another test next week on WED 20th Similar to this but we may need to cut the main iC4H10 supply line.
- beam pipe installed on TUE 12th. It will be removed at last on FRIDAY 22.04. In case access to the GIF++ area possible till today @noon. Please keep the area in key access and do "end of access" when finished.
- access to the bunker for installation in order to prepare for the test beam:
  - we try to use WED 20th even though there isn't any MD planned, meaning that the whole day can be used for setting up the beam along the H4 beam line
  - THU 21st & FRI 22nd can also be a solution, depending on the setting up of the beam
  - otherwise, we will plan to use the weekend, where for sure there will be no beam pipe anymore inside the bunker.  
In any case, as soon as the beam steering is over, we will let you know.

## Muon beam 2022 :

- Version 0.6 (!) of schedule now available.  
no changes affecting GIF++ so far!
  - Only expected uncertainty - October beam time might move (linked to NP04)
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## Weekly Reports :

*Please update before or during the meeting !*

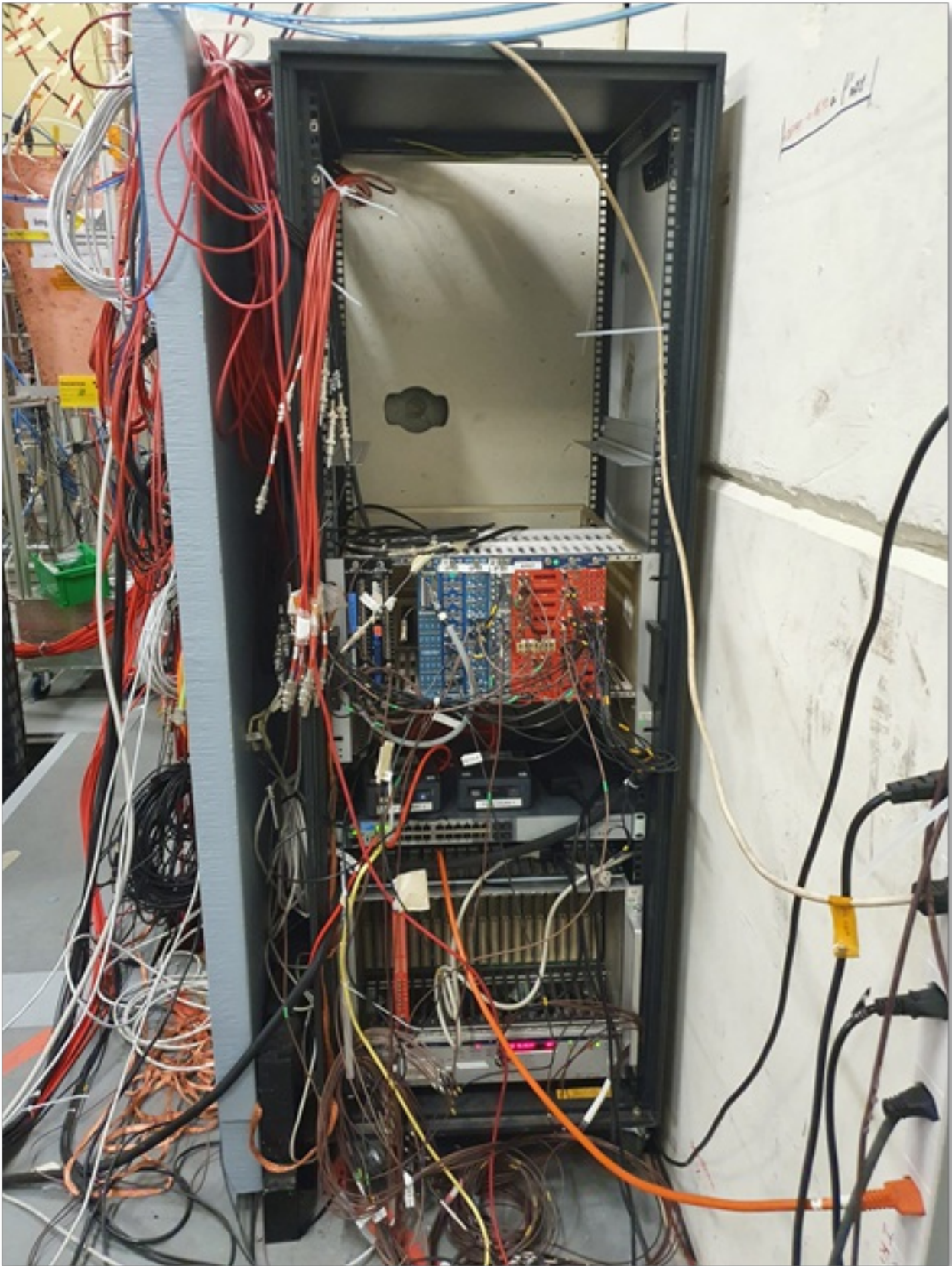
### **ATLAS-RPC: (Luca, Giorgia, Sinem, Ahmet)**

- The person power is busy with the cavern activities. The detailed plan for the tests at GIF++ will be discussed after the closure.

### **ATLAS-MM: (Francesco, Givi)**

update dated 14/04/2022:

- **Setup maintenance**
  - cross-check of services in preparation for the testbeam April / May
  - temporary installation of LAN cables for FEC/APV electronics used during the testbeam
  - we would like to install an EASY crate in the rack in the shielded pocket



- **Weekly plan**
  - continuation of aging studies with Ar/CO<sub>2</sub>/iC<sub>4</sub>H<sub>10</sub> gas mixture
- **Test beam**

- participation to the second(new) test beam slot (start: 05.5.22 - end: 10.5.22) as well!
- we will have the PC (with DAQ) + NIM logic for trigger in preparation area

### **ATLAS-sTGC (Margaret):**

- No current setup at GIF++, and will not return until the later 2022 testbeam periods. Plan to join in July and October beam times, sharing setup with MM maybe as before, exact details (Frame? DAQ? Trigger?) TBD, but will most probably want to be nearby if not in same frame
- At that time will use same npentane mixture as before

### **CMS-CSC: (Katerina)**

- Study of the reason of Malter currents in ME2/1 in closed gas loop bypassing purifier column.

### **CMS-GEM: (Davide, Michele, Ashok)**

updated 13/04/2022

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

- Detector left on gas in position for test beam: aside the irradiator far away from the beam line





#### Planned Activities during next Test Beams:

- We'll stay in this position up to 4/5 (start of 2nd week of test beam)
- On 4/5 we'll go back to our position and we'll have **COMPLETE CONTROL OF THE SOURCE FOR 24H from 4/5 6am to 5/5 6am** (during machine development so no beam)
- No operation or requests from 5/5 to 11/5 (end of test beam)
- **COMPLETE CONTROL OF THE SOURCE FOR 24H from 11/5 2pm to 12/5 2pm** we want to leave the morning for setup removal after test beam

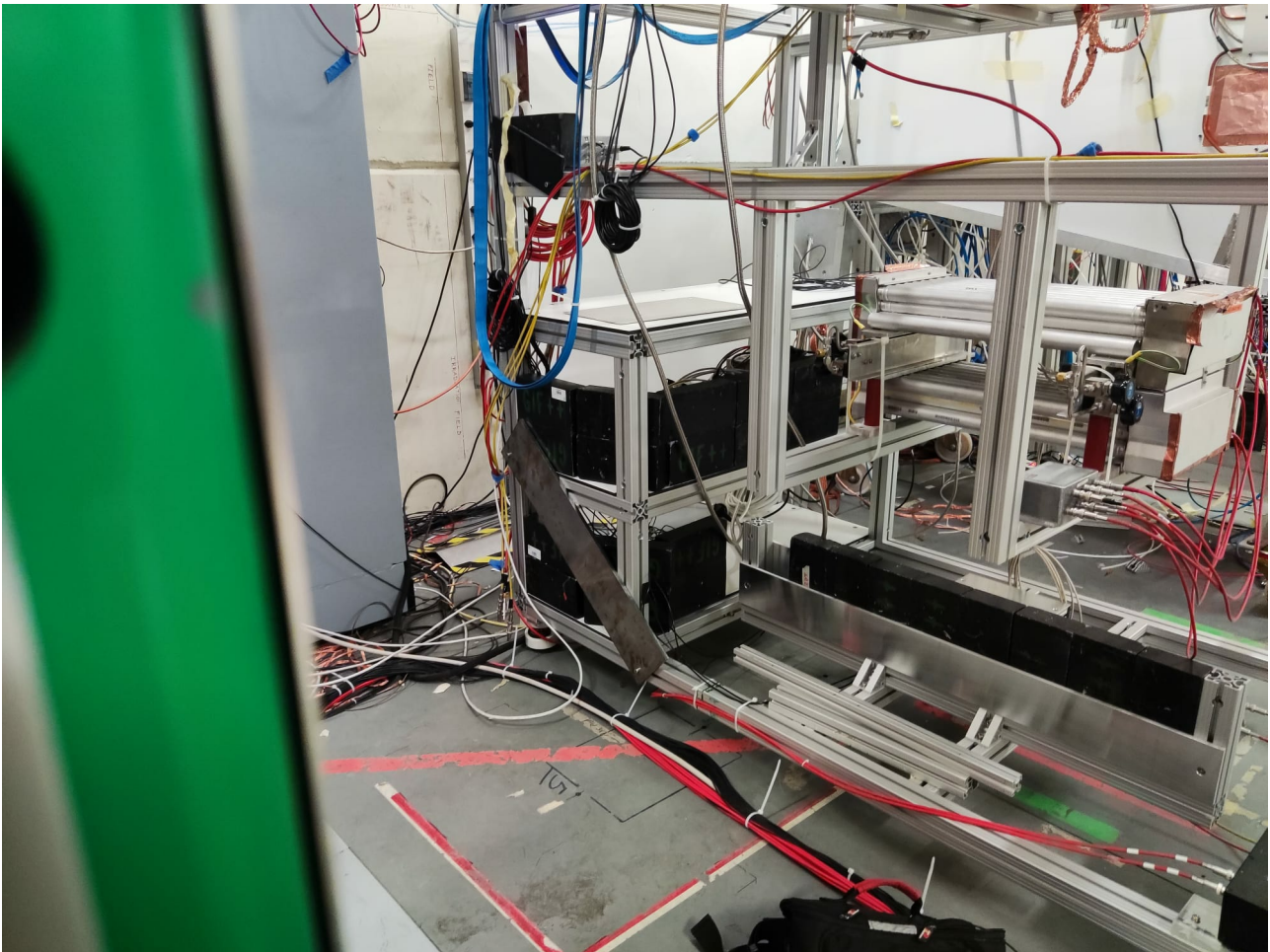


- *No participation to May testbeam*: stup will be moved away from bunker
- Come back at GIF++ the 8/6 after testbeam

## ATLAS-sMDT (Elena)

### News from the previous week (31.03 - 07.04):

- The sMDT setup has been modified, additional platforms have been added to install the electronics inside the setup.
- The trolley with the sMDT electronics has been removed from the area between the irradiator and the wall.
- The electronics have been installed inside the setup.



### Planned activities:

- The readout system (+ the whole electronics chain) of the detectors is expected to be restarted for mid of April.

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### ATL-sMDT beam time periods:

- week 17 : 25.04 - 03.05 - like a parasite for the updating and debugging of the DAQ and DCS systems
- 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.

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### **ProTOV**

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

### **EP-DT2: (Mattia)**

- End of ISE measurements. Set up removed.
- Chamber back to normal operation with STD gas mixture.
- NIM crate problem: ventilation
- This is my last meeting probably until October. Thanks you all for the help, especially for the test beam periods (Katerina, ECOGAS collaboration, Lisa, Giuseppe)
- Test beam
  - Almost ready for the test beam: need to install the scintillators in next weeks.
  - We will participate to all the test beam with the setup already in the bunker. Probably the only exception will be the May test beam.

### **Ecogas: (Mapse, Luca, Gianluca)**

- Weekly Planning:
  - RPCs are still flushed with Ar
  - ATLAS RPC reinstalled on the trolley in the bunker
- Test Beam:
  - We will participate in the July and October TB

### **CMS-RPC: (Mapse, Ece, Nicolas)**

- Weekly Planning:
  - IRPC trolley is moved out of the bunker to the preparation area (last week).
  - We finished argon tests. We requested several slots with different abs (3.3,4.6,6.9) for the incoming week.
- Test Beam:
  - We would like to participate in all 8 weeks.
  - Week 20 would be low priority.
  - We would like to attend with 2 trolleys: Consolidation and tr3.

## **CMS-DT: (Lisa)**

- weekly planning:
  - continue irradiation at 2.2
- Test Beam:
  - we could profit from additional week 18
  - week 17 (from 25 April)
  - week 21 (from 25 May)
  - week 22 (from 01 June)

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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.