

Weekly Reports - GIF++ Users Meeting

Meeting : 24.03.2022 - 9h

Announcements from GIF++ Coordination

- DSO test postponed. XTDV not operational.
- This week, an inspection was foreseen on the hoists used for lifting the ATL-MM-NSW setup

Muon beam 2022 :

- Version 0.5 (!) of schedul now avaiilabe.
NO changes affecting GIF++ so far (but still not final).
 - Only expected uncertenty - October beam time mighth move (linked to NP04)
-

Weekly Reports :

Please update before or during the meeting !

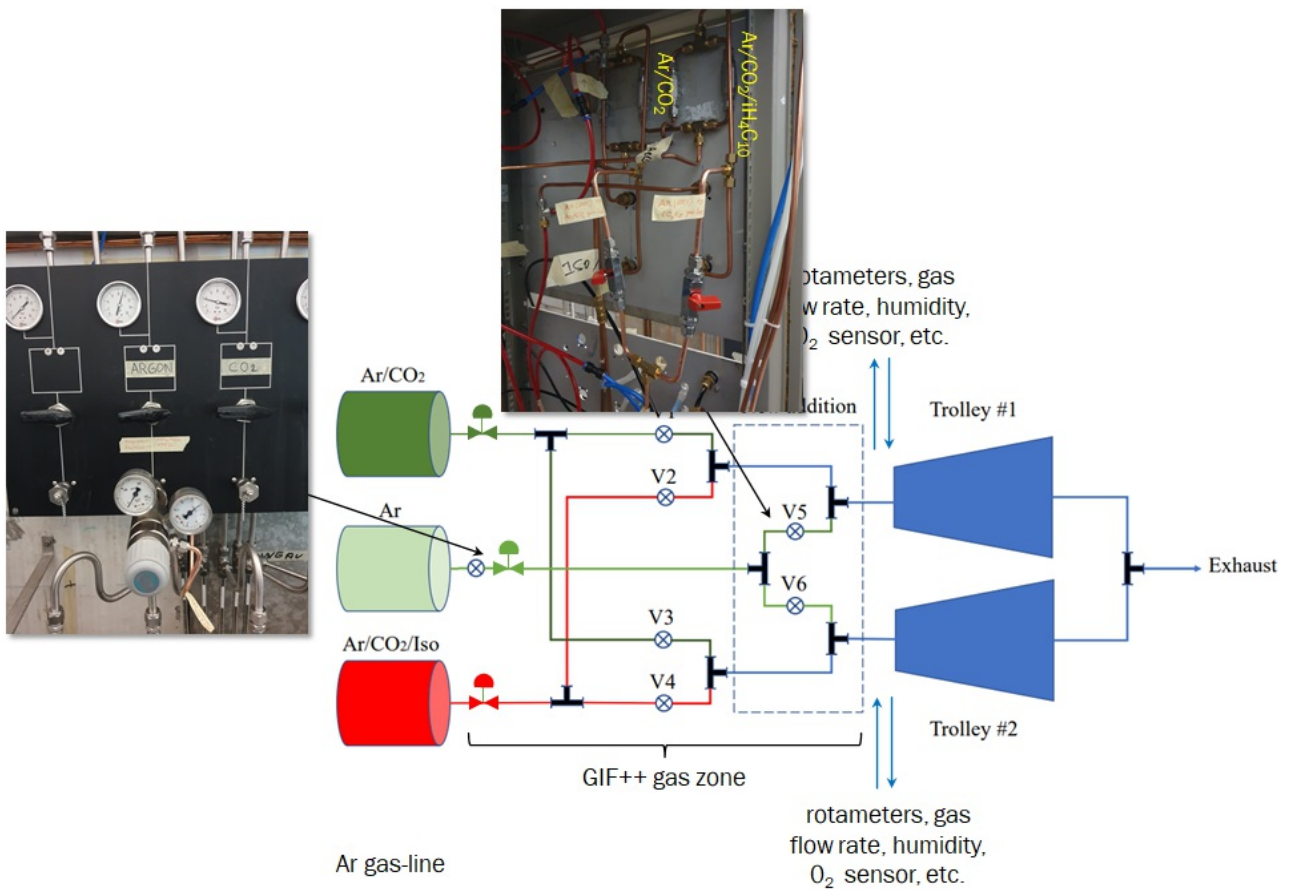
ATLAS-RPC: (Luca, Giorgia, Sinem, Ahmet)

- 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)

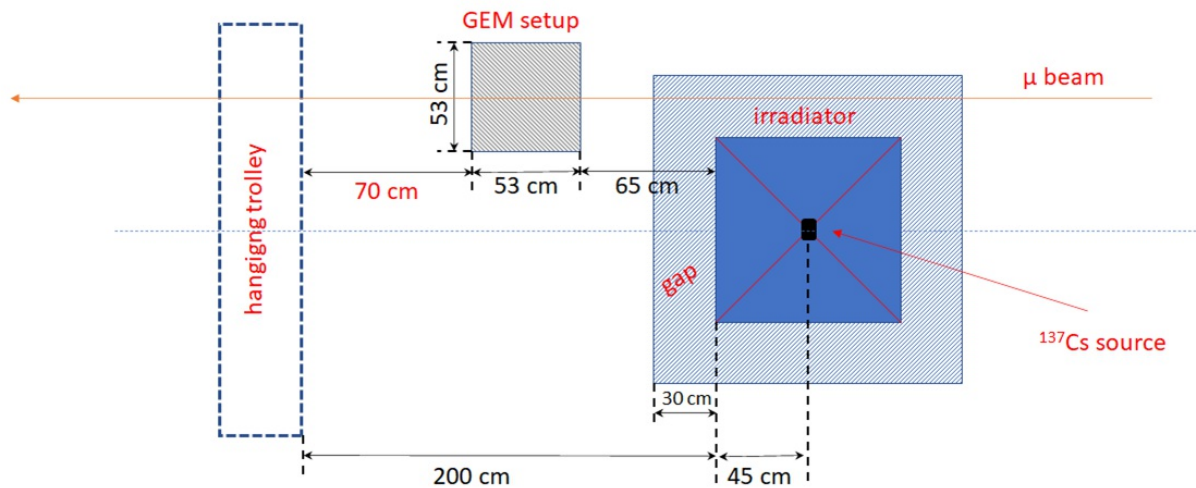
update dated 31/03/2022:

- Setup maintenance
 - new pure Ar gas-line successfully installed in the gas zone on 25th Fri. March
 - gas leak test successfully passed!
 - we connected the pure Ar gas-line to existing Ar/CO2/iC4H10 and Ar/CO2 gas-line through a 1-way valve (we could easily switch from Ar/CO2/iC4H10 gas mixture to pure Ar and vice versa)



Experimental Setup Configuration

- ❑ the GEM team requested a slot for their test-beam from 13th to 28th July 2022!
- ❑ investigate how to accommodate MM/STGS setups + GEM setup on the beam line



- Weekly plan:
 - pure Ar treatment for the unstable sector
 - continuation of aging studies with Ar/CO₂/iC₄H₁₀ gas mixture

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)

- Strong Malter currents in closed gas loop, investigating

CMS-GEM: (Davide, Michele, Ashok)

updated 31/03/2022

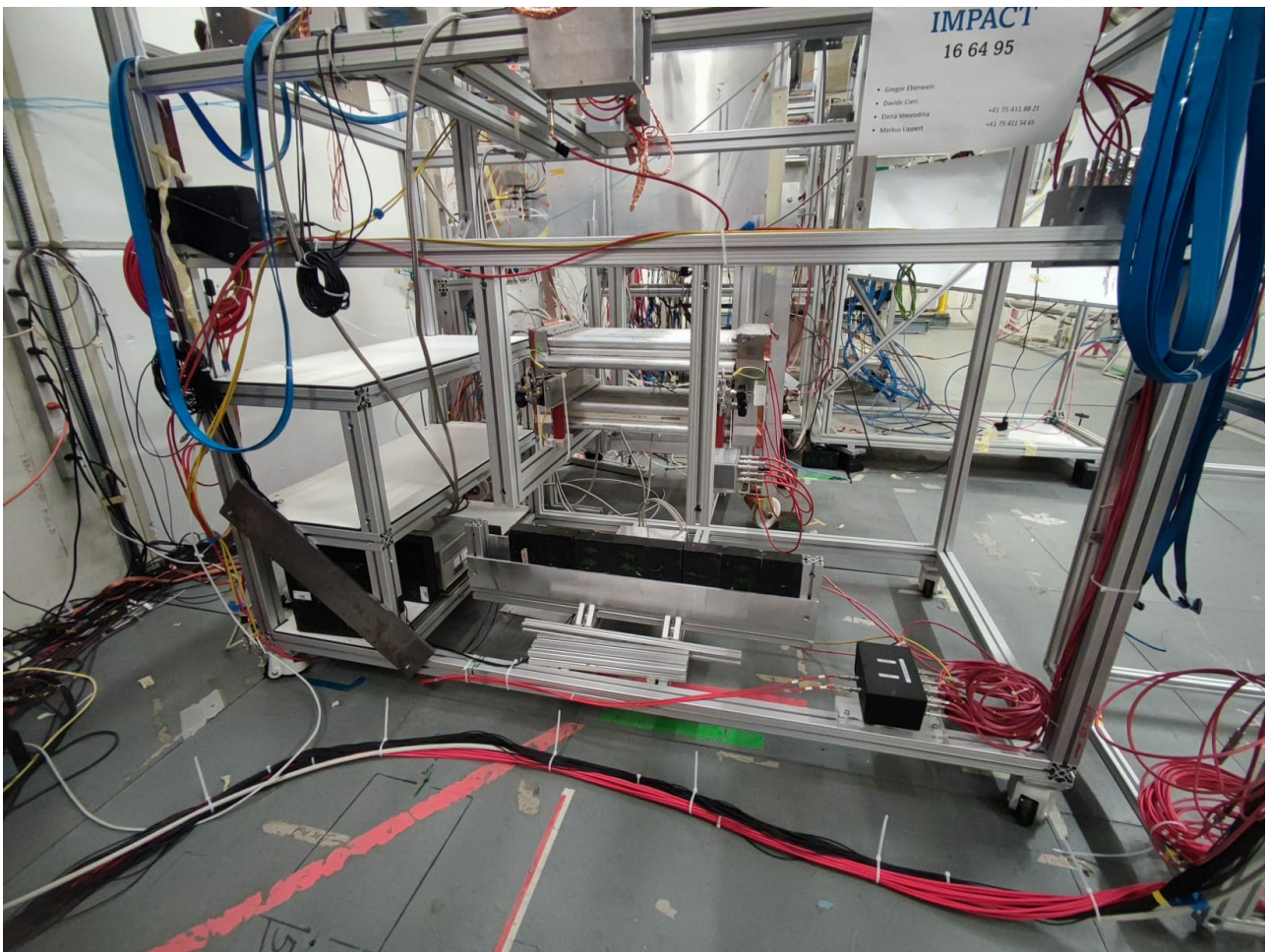
Slot for test beam: 13/07-20/7

- New perfectly working CAEN mainframe installed
- Friday measurements unsuccessful because electronics noise
- New ADC installed and new measurements taken
- Filter scan with access yesterday, new access+scan tomorrow

ATLAS-sMDT (Elena)

News from the previous week (24.03 - 31.03):

The sMDT setup has been modified, additional platforms have been added to install the electronics inside the setup.



During the next access to the bunker, the small trolley with the electronics will be completely removed and the electronics will move inside the setup.

During an unexpected power cut at the GIF++ facility on February 14, 2022, the following equipments have been damaged:

- the Baratron pressure sensor (in the gas rack)
- the computer system unit (it is DAQ PC in the electronics rack)

Planned activities:

- The electronics are planned to be installed inside the setup. This means that the trolley with electronics will completely remove from the area between the irradiator and the wall.
- The readout system (+ the whole electronics chain) of the detectors is expected to be restarted for end of March.

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.

ProTOV

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

EP-DT2: (Mattia)

- Friday 1st April: end of morning measurements. Some time slot will be probably booked on Monday/Tuesday in order to re-take some data.
- Test beam
 - 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.
New rail installed and IRPC 190 is moved to trolley 2.
We started argon tests. For 1 week we have no specific abs factor request until thursday.
- 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:
 - week 17 (from 25 April)
 - week 21 (from 25 May)
 - week 22 (from 01 June)

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.