

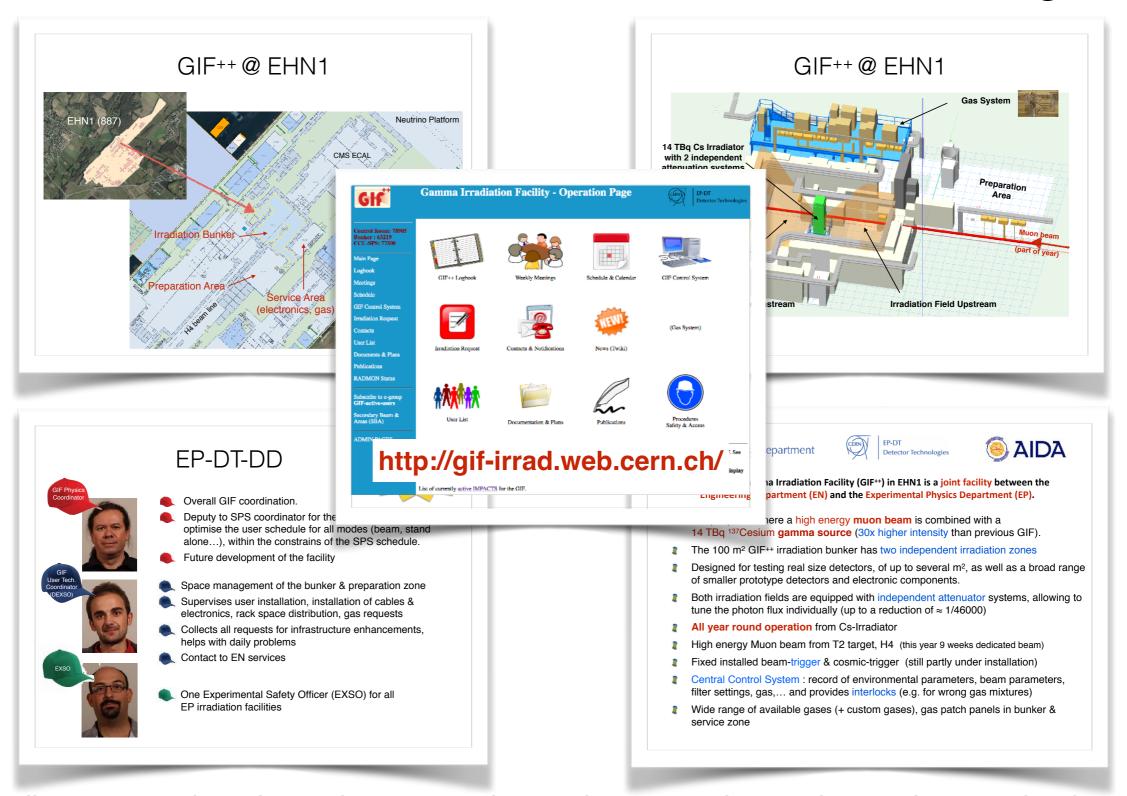


EP-DT-DD Section Meeting 01.12.2017





GIF Introduction -> Last DT-DD Section Meeting



https://indico.cern.ch/event/618306/contributions/2511749/attachments/1429474/2195140/2017 03 GIF Status.pdf







- March Intense maintenance period last March
- Second cosmic trigger chamber installed
- Improved temperature & humidity control inside bunker & temperature stabilisation for gas rack area (tend)
- Mew central gas detection system installation & commissioned
- Central Control System improvements, with central archiving to CERN oracle DB, publishing via DIP
- Upstream XTDV (beam dump) installed, now we are independent for access & gamma irradiation
- Irradiation field markings
- Increased rack space in service area (+4 racks)
- Several new setups installed
- Additional set of scintillators, used as beam trigger during muon beam deflection (Goliath magnet)
- New web page, new logo, new web cams, publishing the bunker view once per day
- First Annual User Meeting with full set of presentations

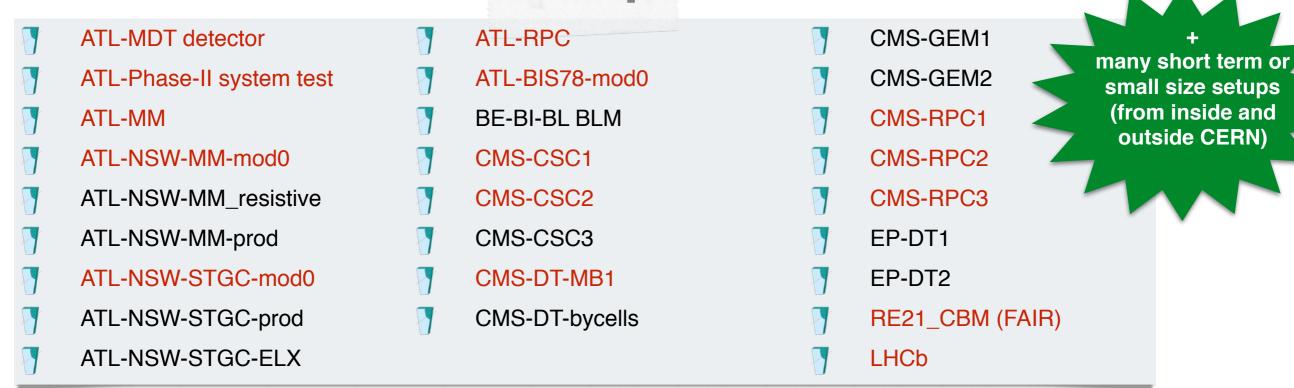
https://indico.cern.ch/e/GIF-AUM-2017/





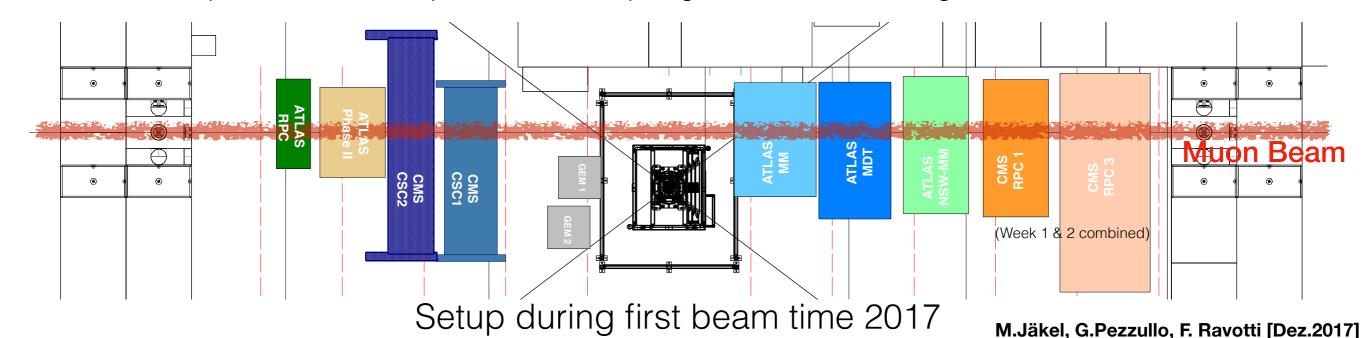


User Set-Ups for 2017



26 Set-ups requesting beam or long term irradiation!

Description of each set-up available at https://gif-irrad.web.cern.ch/gif-irrad/UserList.html







Upgrades under installation:

- Material access door finalised, installation next week (!)
- ☑ Web interface (beta available) to retrieve GIF data from Oracle DB
 (Timber)
- ☑ Upgrade of Control System for 12 RADMON sensors, including Berthold probes readout
- Marchael Inclusion of GAS system values into Central Control System
- New gas system exhaust line
- Improved irradiation field usage
- Modification of GIF top enclosure to make annual maintenance easier (order send out, installation during next maintenance)
- Connection of Irradiator Control Rack to UPS (order send out)
- Installation of additional interlock key on Irradiator (first part of order send out)
- Next GIF maintenance March 2018 (Week 11)
 - Time for a field mapping campaign?





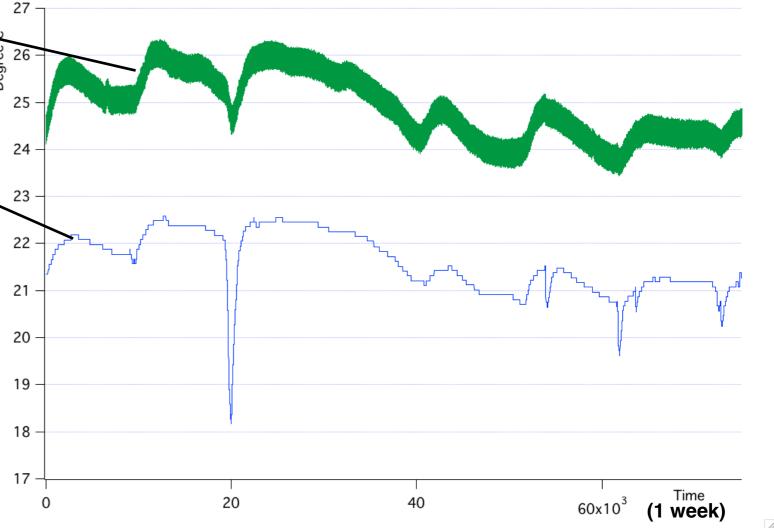
Gas-Rack Tent: First Real Test



Last year we lost irradiation time for some detectors (using flammable gases) due to very low temperature.

This year, the additional tend around the gas area seems to buffer short disturbances effectually.



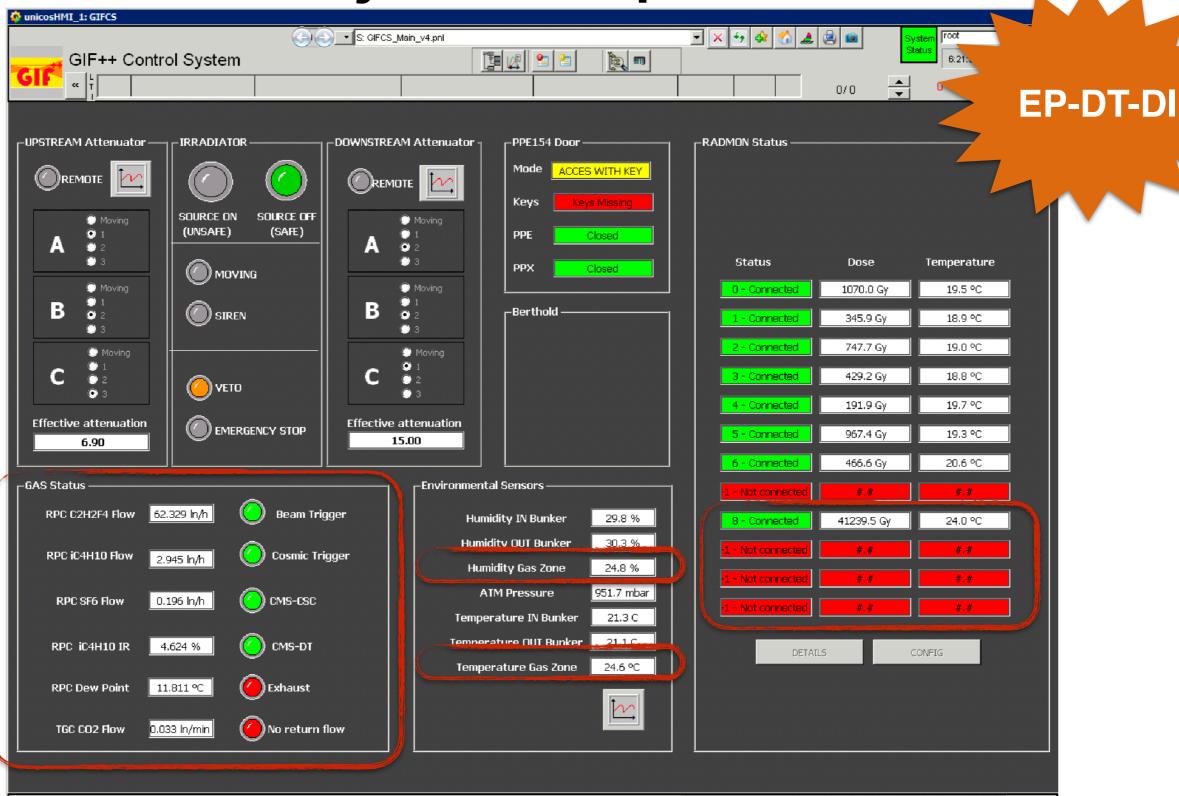








Control System Improvements





Outlook 2018

- Again a very intense beam time
 - 3 x 3 weeks requested (April, July, November)
 - ≈ 20 Setups requesting beam time
 - Last muon beam until ≈ May 2021

ATL-MDT
ATL-MM
ATL-STGC
ATL-RPC
CMC-CSC
CMS-DT
CMS-RPC
EP-DT
RE21(CBM)
LHCb-Muon

- In addition: Multiple setups for irradiation only
- Start of mass-production test campaigns
 - Stress on material access and scheduling
 - Hundreds of real size muon chambers
- The bunker is getting small again....