

**RD51-WG7**

**Meeting 16/09/08**

# News & Info

- Referees will join the next convener meeting the 23th of September.  
WG1 (technological aspects/new structure development) and WG4 (simulation tool) will have a dedicated presentation.
- Try to get access and to use the RD51 “sharepoint” (the collaboration web page)  
<https://espace.cern.ch/test-RD51/default.aspx>  
This can simplify the exchange of documents and the WG forum-like section can substitute the e-mail

# WG7 parallel session in Paris

- 2 hours can be divided in:
  - 6 talks of 20' (15' + 5')
  - more likely 8 talks of 15' (10' + 5')  
(No less than 5' of question because feedback is very important at this stage)
- 2 presentations will be:
  - test beam / irradiation programmes of the whole collaboration
  - facilities outside CERN where the RD51 members can have a easier access
- DAQ, tracking, slow control and analysis framework **NEED** some presentations, because:
  - they need interaction with users
  - more than one proposal is present

# RD51 test beam / irradiation programmes

- Up to now, feedback from only 7 groups:
  - no test beam or irradiation activities for 3 of them
  - 4 ask for a test beam facility, 2 also an intense irradiation facility (see the other presentation)
  - Requirements provided in their slides (attached in the agenda) are useful, but maybe DAQ people need more information (number of channels to manage, analog or digital readout, ADC and/or TDC required)

Test beam facility

# Task 7-1/a.1 to 7-1/a.3

- Basic infrastructure (cables, racks, pc), gas system, trigger devices and logic
- All standard items for a test beam, just the gas system design should listen all the request from the users
- Involved groups: CERN, Geneve Univ., Naples-INFN

# Test Beam DAQ, tracking system, slow control, analysis framework

The proposals can be organized in (just guess from my e-mail understand.. please correct wrong statements..):

- “Micromegas consortium”: Saclay, Athens Univ. and NTU, Demokritos, Thessaloniki share responsibilities in tracking system, DAQ and analysis framework
- Bonn is developing DAQ (general purpose but TPC oriented) in the framework of EuDet european program
- CERN-PH can provide three 10x10cm<sup>2</sup> GEM detectors (VFAT electronics) for the tracking system
- Need more detailed info from Arlington UT, Geneve Univ., Carleton Univ.

# Irradiation facilities



# Remind: GIF++ meeting summary

1. A (very likely muon) beam in addition to the Cesium source.  
→ the facility is attractive because it is a test beam in a photon background environment.
2. A minimal trigger & DAQ setup will be provided
3. They complain that no feedback was sent from RD51 or even single groups of the collaboration  
→ next GIF++ meeting in 2-3 month is the last chance to submit specific requests to the facility designers
4. I'm asking to GIF++ people to have a presentation at Paris in our session to summarize the state of the art.

# Task 7.2/a.1, 7.2/a.2, 7.2/b (info collection tasks)

# Task 7.2/a.2 to 7.2/a.6 (GIF++ setup)

- Many items already provided by GIF++
- No or few contributors on this items.. Can people, providing e.g. analysis framework for test beam, duplicate it also for GIF++?

# Other irradiation facilities

- NIKHEF, DESY, PTB, Demokritos, Saclay, Montreal.. (a complete list in the last version of the proposal) have irradiation facilities where RD51 members (can) have easier access (in terms of cost, time schedule..)
- The feature and the access possibilities of these facilities should be summarized in one presentation in Paris

# Conclusions

- Urgent tasks for WG7 members:
  - prepare a presentation of the features of their DAQ / slow control / tracking / analysis framework proposal
- Other urgent tasks:
  - continue to contact people for their test beam / irradiation programmes and requirements
  - contact the institutes that made their irradiation facilities available to RD51