MM Organization Issues

THE NSW STEERING GROUP

Regular meetings of the NSW SG started

- First meeting hold on Oct. 31st
- Planned weekly every Wednesday 4pm
- Eventually will comprises:
 - PL
 - deputy PL, MM
 - deputy PL, sTGC
 - Technical coordinator OR 2 separate roles: i) Services/service integration; ii) Mechanics/Layout
 - (Resource coordinator)
 - Alignment
 - Electronics
 - Controls and DCS
 - DAQ and Readout (higher level part, integration into TDAQ etc. when things proceed further)
 - Software (incl. simulation)
 - Trigger
 - Integration Activities, Logisitics
- Only PARTIALLY covered at present
- The list will certainly evolve with time

IDENTIFICATION OF TASKS IN THE MM PROJECT

As the NSW project is entering the Construction Phase, and moving to the new NSW management

- It is crucial to have a complete view of the entire MM Project
- We need to identify the list of tasks in the project
- Assign tasks to people
- Guarantee that all tasks are covered in terms of manpower and proceed efficiently
- Assign coordination responsibilities
- Continuously monitor advances

In the next two slides a proposed breakdown of tasks is reported.



MM TECHNICAL COORDINATOR

DETECTOR CONSTRUCTION

(Local Coordination at Construction Sites)

- Tooling
- Panels construction
- Mesh
- Frames
- ModuleAssembly
- On chamber in-plane sensors/ platforms

DATABASE

(Common Framework within NSW; Centralized across MM construction sites)

QA/QC during CONSTRUCTION

Selection of material/parts

QA/QC

- · Gluing process, uniformity
- Panels certification: planarity, stiffness, strip alignment, gas tightness,
- Module Assembly/Module certification: HV, Gas tightness, X-rays
- Test-Stand

Chamber Preparation at CERN

- Equipment of CERN commissioning area
- Read-out system(s)
- DAQ for testing
- Coordination of activities
- Wedge Assembly

MM Project Engineer

Layout/ Drawings

• All MM building parts

(panels,

- modules,
 Assembly/
- Mounting ...)
- On chamber alignment
- •Spacer(?)

Procurement

- All MM building parts (Boards, Glue, Frames, Honeycomb,
- Mesh

PCB Procurement

- Define a roadmap with industries
- Complete Readout PCB technology transfer and QA/ QC
- Drift PCB
- Resistive strips
- Pillars

(*) bulleted list as a guideline of items/activities to take care of

Tasks in red: Under MM Coordination

each box includes activities followed and developed by a defined list of people



SERVICES DCS, DAQ and **Electronics Test-Beam Data** (Under NSW **DQ/Monitoring Muon Software** The group exists **Activity Analysis Coordination**) (Under NSW Coordination) Is coordinated by Lorne **TRIGGER** VMM and **MM Specific Power Supply MM Controls** Small size • Test-beam Companion **SOFTWARE** HV/LV (in (HV/LV controls/monitor) analyses / prototype Chips Design implementation connection with Magnetic Performance Simulation in ATHENA Industry) Field & studies Implementation Geometry Sensors (B,T) Front-end • MM+sTGC Operational Simulations Simulation/ Boards Cooling trigger Conditions and Digitization combination **Alignment** Optimization optimization Reconstruction **GBT Links** Functional of Operating **Gas System** Calibration **DCS ATLAS Config/Init Prototypes** Conditions Database **DCS Labs Config/Init** cooling Cables/Pipes • Module 0 Definition of routing Ageing – Calibration DAQ Radiation Constants tests Reconstructi **Online/Offline Monitoring** on method(s) Use of MSW as testbench to

pilot DQ/Monitoring

Tasks in red: Under MM Coordination

each box includes activities followed and developed by a defined list of people

QUALIFICATION TASKS AND OTP

Qualification task

- Qualification tasks should have a well defined scope
- The qualification duration is 1 year.
- A person qualifying is expected to spend a minimum of 50% of his free research time on the qualification task, and at minimum 80 full days during the 1 year qualification phase.
- so far students were already allowed to qualify fully on a upgrade task, while **for non students only 50% of the qualification task could be done on upgrade** (the rest had to be on an activity related to the present detector/software etc)
- the CB has been asked to approve a **change in this rule**, dropping the distinction between students/non students

OTP

No (good) news on OTP credits: cannot be assigned for upgrade activities

THE MICROMEGAS COLLABORATION - INSTITUTES AND PEOPLE

To ease work sharing/assignment/responsibilities we need to maintain an updated list of Institute/People working in the MM Project

- List of Institutes/Funding Agencies
- Commitments in the MoU
- Current activities / expression of interests
- People / FTE
- MicroMegas Collaboration (MAMMA) Author List

Country - FA	Institute	Commitment in the MoU	Activity	Number of People	FTE



PRESENTATIONS/PROCEEDINGS POLICY



Presentations at Conferences

- Abstract should be collected and presented (listed) at the WeeklyMeeting (WM)
- Presentation on behalf of Muon Collaboration
 MAMMA Collaboration

 Need to establish criteria to go under "Muon" or not
- Slides can only contain MM approved plots/results. Will be maintained on a dedicated Twiki. Results/Plots approval can be done with presentations at the WM
- In all cases slides must be prepared in time such that can be presented at the WM (reharsal). In case of "Muon" talk then go through Muon Speaker Comm.

- Proceedings. Should be scrutinized
- Author: in general the speaker"on behalf of..."



ATLAS Notes and Journal Publications



ATLAS Notes on specific topics under analysis/development

- Focus on details of specific analyses/topics carried out by individuals or small groups. This is a way to report work in progress and to give visibility to people working on the subject (students, ...). The use of such ATLAS Notes is encouraged
- Included content must be previously presented at the WM
- Should be scrutinized ... by the coordinator of the activity(?) ... by the "pub-com"(?)
- Typically short author list with only people directly involved in the topic

General ATLAS Notes (established results/procedures/developments)

- Same procedure as for Proceedings
- Author list: Depending on the topic, under agreement of all coordinator of activities
 OR: Full MM author list

Journal Publications

- Same procedure as for Proceedings
- Plus final scrutiny by the MM collaboration
- and follow "ATLAS"/"Muons" IF REQUESTED
- Author list: same as General Notes or more general if not only under MM

DOCUMENTATION/COMMUNICATION CHANNELS

Twiki Pages

- General NSW page (need revision/updates):
 https://twiki.cern.ch/twiki/bin/viewauth/Atlas/NewSmallWheel
- From NSW to MicroMegas dedicated pages: https://twiki.cern.ch/twiki/bin/viewauth/Atlas/MuonMicromegas
 - -- Need clean-up/revision/possible restructuring following the list of tasks
 - -- All Work area should be accessible from the main page
 - -- Task coordinators or persons in charge, should manage and maintain their work area

CDD (CERN Drawing Directory)

Planned to be the common repository to manage reference drawings of all components of the NSW:

https://edms.cern.ch/cdd/plsql/c4w_atlas_guided.search?cookie=1595007&p_c_id=1912222064&p_project_code=ATU

• To provide an area to access temporary drawings the MM Mechanics dedicated twiki page is now used: https://twiki.cern.ch/twiki/bin/viewauth/Atlas/MicroMegasMechanics

Documents

• NSW related documents of longterm interest, documentation, etc. will be stored in EDMS: https://edms.cern.ch/nav/P:ATLAS:Vo/P:ATL-0000010222:Vo/TAB3



DOCUMENTATION/COMMUNICATION CHANNELS

Meeting and Workshops

- MM Weekly Meetings (Should ensure regular reports and exchange of information at all levels in the MM Project)
- Same time slot is reserved for 2014 Weekly meetings: every Tuesday at 16:00 in ROOM 40-R-C10 (with the exception of some Tuesdays)
- MM Mechanics Meetings
- MM General Meetings
- Meetings and Workshops in coordination with NSW (e.g. Layout/engineering/..)