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Title: Second MUSE General Meeting

Type: Other

Dissemination level: public

WP number: WP7

Lead Beneficiary: INFN

Description:

The 2017 MUSE General Meeting was held in Frascati, on 10-12 May 2017. About 40 researchers from different institutions attended the meeting in person. MUSE researchers from PRISMA and Advansid could not come to Frascati for other concurrent commitments and connected remotely from their institutes. The same applied for some researchers from UCL, Liverpool and INFN which in that days were seconded to Fermilab for the commissioning of the g-2 detectors. The complete timetable of the meeting, with slides of presentations, is available at the following address: <http://agenda.infn.it/event/muse2017>. The poster of the event is shown in Figure 1.

The meeting started with a seminar on the status of the Mu2e experiment delivered by the Mu2e co-spokesperson, D. Glenzinski. The seminar was followed by a joint meeting of the Management Board and Scientific Board, mainly focused on the review of the presentations for the Mid-Term Meeting, scheduled for the following day.

On May 11th, the General Meeting hosted the MUSE Mid-Term Meeting. The MUSE Project Officer, Annouchka Nabokoff, assisted by an external expert, Veronica Sanz from Sussex University, reviewed the status and the progresses of the project. The agenda included management issues, scientific achievements and the status of objectives, milestones and deliverables of the project. Activities connected with training, transfer of knowledge and networking were also addressed, together with a presentation of all dissemination and outreach activities carried on up to the meeting time. The Project Officer had the possibility to interview several MUSE seconded personnel to get a feedback on their experience inside MUSE.

MUSE

2017 MUSE General Meeting

Annual meeting to review the activities supported by the Horizon 2020 MUSE project. The meeting hosts also the MUSE mid-term review.



10-12 May 2017

INFN - Laboratori Nazionali di Frascati

Organizing Committee:

S. Giovannella (LNF) - **Chair**
M. Martini (Marconi University)
S. Miscetti (LNF)
G. Venanzoni (Pisa)



Secretariat: M.C. D'amato (damato@Inf.infn.it)

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Figure 1: Poster of the MUSE General Meeting held in Frascati, 10-12 May 2017.

The morning session of the last day, May 12th, was devoted to the training session for MUSE researchers. Four seminars on different fields were organized:

1. S. Salerno (Optoprim), "Laser systems and their applications"
2. M. Antonelli (INFN Frascati), "Novel proposal for a low emittance muon collider"
3. S. Bistarelli (INFN Frascati), "Nanotechnologies and their applications"
4. G. Mazzitelli (INFN Frascati), "Frascati Scienza Experience: 12 years of data and results in outreach"

The last session of the General Meeting, held in the afternoon, was the "Young Scientists' Forum", where MUSE young researchers presented their activities carried on within the Mu2e and Muon g-2 experiments.

The outreach event of the General Meeting was organized at the University of Rome "Tor Vergata", where three seminars on the Mu2e electromagnetic calorimeter have been delivered to University students on Monday, May 15th. They were organized in a general introduction to the experiment, followed by two detailed seminars on the technology used for the calorimeter system:

1. F. Happacher (INFN Frascati), "The Mu2e Experiment"
2. S. Giovannella (INFN Frascati), "Scintillating crystals"
3. I. Sarra (INFN Frascati), "Silicon photomultipliers"

The outreach event continued on May 17th, when students from Tor Vergata University were invited to the Frascati National Laboratory to carry on hands-on experiments. After a short presentation of the planned laboratory experiments by two Muse PhD students (R. Donghia, E. Diociaiuti), two groups of students were formed and both of them performed alternately some measurements of crystals and silicon photomultipliers (SiPMs) properties. For the crystals, light yield, longitudinal response uniformity and signal shape of pure CsI and BaF₂ crystals have been compared. For the SiPMs, their I-V curves have been measured. This has been done both for irradiated and not-irradiated sensors at different temperatures. Presentations and more details on the event can be found at the following link: <http://muse.lnf.infn.it/event/2017-muse-general-meeting-outreach-event/>.

MUSE

The Mu2e Electromagnetic Calorimeter

MUSE outreach program for University students

15-17 May 2017

University of Rome "Tor Vergata"
INFN - Laboratori Nazionali di Frascati



* **Monday** 15 May 2017, 10:00 A.M.
University of Rome "Tor Vergata" Aula Grassano

Seminars:

- F.Happacher The Mu2e Experiment
- S.Giovannella Scintillating Crystals
- I.Sarra Silicon Photomultipliers

* **Wednesday** 17 May 2017, 2:00 P.M.
Laboratori Nazionali di Frascati

Hands-on laboratories
Tutors: E. Diociaiuti, R. Donghia

14:00 **Building 36, Room B1**
Introduction to laboratory measurements

14:30 **Building 28**
- Measurement of Scintillation Properties for CsI Crystals
- Measurement of Silicon Photomultiplier Properties



Figure 2: Poster of the outreach event connected with the MUSE General Meeting.