

## MUSE Outreach Activities

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MUSE meeting, 15 September 2017

## Introduction

## MUSE Dissemination and Outreach (WP5) mission

#### Outreach

- ▶ promotion of communication between scientific community and general public
- ► increase of science awareness

#### Dissemination

▶ report and publish scientific and technological results

### Outline

- ▶ progress since MUSE May 2017 meeting
- incoming planned activities
- milestones status

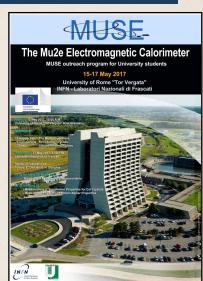
# Training lectures in Rome and experiences at LNF on the Mu2e electro-magnetic calorimeter, May 15-17, 2017

## May 15, training lectures

- ► F. Happacher, "The Mu2e Experiment at Fermilab"
- S. Giovannella, "Scintillating Crystals"
- ▶ I. Sarra, "Silicon PhotoMultipliers"

## May 17, hands-on experiences

- ▶ introductions on measurements of crystals and silicon photomultipliers (SiPMs) properties
  - R. Donghia, "Crystal Test"
  - ► E. Diociaiuti, "Mu2e SiPMs test"
- experiences
  - comparison of the light yield and of the longitudinal response uniformity of pure CsI and BaF2 crystals
  - measurement of the I-V curve for not irradiated and irradiated SiPMs at different temperatures.



## Training lectures and guided tours for FNAL summer students

- (Task 5.5, Summer School at Fermi National Accelerator Laboratory)
- ▶ activities on August 4, 2017
- ▶ 3h 40m of training lectures on Mu2e
- guided tours to Mu2e and Muon g-2 experimental halls (~20 students)



## 3-day high school teachers training in LNF, October 4-6, 2017

#### Deliverable, scheduled for October 2017

Task 5.3: Annual Physics Meeting at LNF (INFN) The target of this three-day event is high school teachers and the goal is to give information on the recent advancements in the field of sub-nuclear and nuclear physics and detector developments. A special effort will be made to prepare experiments which involve the new detector components developed by the MUSE project.

Mu2e MUSE Italian collaborators are preparing the event, details will be reported after the event



#### IDF in breve

Incontri di Fisica è il corso di formazione e aggiornamento su temi della Fisica Moderna

per docenti di discipline scientifiche delle scuole secondarie di secondo grado e giornalisti scientifici di tutta Italia,

realizzato dai Laboratori Nazionali di Frascati dell'INFN.

## 50th Fermilab anniversary open day, September 23, 2017

- ▶ 2 Italian Muon *g*−2 collaborators will guide tours to the experiment
- ▶ 1 Italian Mu2e collaborators will guide tours to the experiment



## Dissemination

- papers and presentations are listed on the muse web site
  - http://muse.lnf.infn.it/paper/
  - ▶ http://muse.lnf.infn.it/events/category/talks/

## papers since May 2017 MUSE meeting

▶ no new paper since May 2017 meeting

## presentations since May 2017 MUSE meeting

- EPS 2017 The Fermilab Muon g-2 Experiment,
  M. Lancaster (UCL), EPS 2017
- The Fermilab muon g-2 straw tracking detectors and the muon EDM measurement, R. Chislett (UCL), EPS 2017
- Construction and Commissioning of the Beam Delivery, Storage Ring and g-2 Detectors at FNAL, A. Gioiosa (INFN LE), EPS 2017
- ► The Italian Summer Students Program at Fermi National Accelerator Laboratory (poster), S. Donati (INFN Pisa), EPS 2017
- The muon to electron conversion process and the Mu2e experiment at Fermilab, S. Miscetti (INFN LNF), EPS 2017

- ► The Mu2e tracker and calorimeter systems, S. Giovannella (INFN LNF), EPS 2017
- Pre-Production and Quality Assurance of the Mu2e Silicon Multipliers (poster), L. Morescalchi (INFN Pisa), NDIP 2017
- Misura del momento magnetico anomalo del muone ad altissima precisione, G. Venanzoni (INFN Pisa), INFN Pisa seminar
- The Muon g-2 anomaly: experimental status and prospects, G. Venanzoni (INFN Pisa), XII Meeting on B physic, Centro Congressi Università di Napoli Federico II, Naples, Italy

# Conclusion

► thanks for your attention!