



**Deliverable D11.2 – WP 11**

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**Title: First NEWS General Meeting**

**Type: Report on the activity**

**Dissemination level: Confidential, only for members of the consortium (including the Commission Services)**

**WP Number: WP 11**

**Lead Beneficiary: INFN**

## **Abstract**

This document reports on the first NEWS General Meeting held at the INFN Department of Pisa and University of Pisa between Tuesday, March 13, 2018 – Thursday, March 15, 2018.

## **Description**

The 2018 NEWS General Meeting was held in Pisa, at the INFN Department and University of Pisa (Polo Fibonacci) on March 13-15 2018 [1]. More than 40 researchers from different institutions attended the meeting. The complete timetable, with slides and presentations, is available at the following address: <https://agenda.infn.it/conferenceDisplay.py?confId=15359>

In order to maximize attendance, we chose to organize the meeting in the same week as the Fermi-LAT Collaboration Meeting [2] held at INFN and the University of Pisa between Monday, March 12, 2018 – Friday, March 16, 2018. This allowed a more intense participation especially from US Partners. The complete timetable of the Fermi-LAT Collaboration Meeting, with slides and presentations, is available at the following address: <https://agenda.infn.it/conferenceDisplay.py?confId=14837>. Given the wide attendance, with more than 100 researchers involved, the Fermi-LAT Collaboration Meeting was held at the Aula Magna F.lli Pontecorvo (Polo Fibonacci) of the University of Pisa. The coincidence of the two events was extremely fruitful for discussions and exchange of ideas.

The first two days of the NEWS General Meeting were devoted to the review of the activities connected to the project. Some specific talks of general interest were also included in the agenda. The first day the meeting of the Management Board mainly focused on an in-depth discussion of the running of the first months of the project.

The second day was entirely dedicated to the scientific review of the progress of the several Work Packages. For each WP the co-Leaders gave at least one or two presentations. This is the complete list:

- 1) **WP2 “GW Physics”**, M. Razzano (University of Pisa), “Multi-messenger approach and detector characterization”;
- 2) **WP2 “GW Physics”**, Ettore Majorana (INFN Roma La Sapienza), “Status of Virgo and plans for O3 run”;
- 3) **WP3 “GW Detectors”**, Enrico Calloni (University of Napoli Federico II), “R&D program for GW Detectors”;
- 4) **WP3 “GW Detectors”**, Kazuhiro Yamamoto (University of Toyama), “Status of Kagra Cryogenic suspensions”;
- 5) **WP3 “GW Detectors”**, Matteo Barsuglia (CNRS), “The collaboration with NAOJ on frequency dependent squeezing”;
- 6) **WP4 “Fermi-LAT Data Analysis”**, Sara Cutini (INFN Perugia) “Update on Fermi-LAT data analysis”;
- 7) **WP5 “X-ray Polarimetry”**, Luca Latronico (INFN Torino), “Update on the X-ray Polarimetry Explorers”;
- 8) **WP6 “Muon Campus Experiments”**, Franco Bedeschi (INFN Pisa), “The Muon (g-2) experiment at Fermilab”;
- 9) **WP6 “Muon Campus Experiments”**, Ivano Sarra (INFN Frascati) “The Mu2e experiment electromagnetic calorimeters”;
- 10) **WP7 “Superconducting Technologies for Particle Accelerators”**, Emanuela Barzi (Fermilab), “Satus Report”;
- 11) **WP8 “Superconducting Technologies for Particle Detectors”**, Flavio Gatti (University of Genova), “Status Report”;
- 12) **WP9 “Outreach”**, Chiara Oppedisano (INFN Torino), “Status Report”;
- 13) **WP9 “Outreach”**, Carmela Luongo (INFN Pisa), “The University of Pisa Summer School Summer Students at Fermilab and other US Laboratories”;
- 14) **WP10 “Transfer of Knowledge”**, Rosario De Rosa (University of Napoli Federico II), “Status Report”.

On the basis of the 1-day discussion and analysis the global impression was that all activities are progressing well.

The last day was dedicated to the training and outreach activities organized in conjunction with the Fermi-LAT Open-Day at the Fermi-LAT Collaboration Meeting. This included the celebration activities for the successful 10-year Fermi mission operation. Seminars reported updates from the astro-particle and gravitational wave communities, for example IceCube, Km3NET, Advanced Virgo, Ligo and CTA. The most recent updates from Fermi-LAT were reported, along with

possible future collaborations with neutrino and gravitational wave experiments. This is the complete list of seminars of the morning training session:

- 1) Francesco Vissani (GSSI), "Astrophysical Neutrino overview and synergies with gamma-ray observations";
- 2) Theo Glauch (IceCube Collaboration), "IceCube recent results";
- 3) Piera Sapienza (INFN-LNS), "Km3NET Status and Prospects";
- 4) Annalisa Allocca (INFN Pisa), "Advanced Virgo Status and Upgrade Plans";
- 5) Barbara Patricelli (INFN Pisa), "Recent Results from Advanced LIGO and Advanced Virgo";
- 6) Elisabetta Bissaldi (INFN Bari), "GBM science overview";
- 7) Enzo Brocato (INAF), "GRAWITA";
- 8) Stefan Funk (Erlangen Centre for Astro-particle Physics), "CTA";
- 9) Steven Shore (University of Pisa), "Novae".

In the afternoon, several more suitable seminars for the general public and students relative to the history of the Fermi mission were given:

- 1) Peter Michelson (Stanford University), "Building an international team and the path to the mission approval";
- 2) Julie MCEnergy (NASA), "The Fermi mission: 10 years of smooth operations and dynamic operativity";
- 3) Eric Grove (Naval Research Laboratory), "The Fermi Large Area Telescope: developing the instrument concept";
- 4) Ronaldo Bellazzini (INFN Pisa), "The construction of the largest silicon tracker in space on-board the Fermi-LAT";
- 5) Seth Digel (Stanford University), "The Fermi observatory legacy to the science community - papers and analysis tools";
- 6) Andreas Von Kienlin (Max Planck Institute for Extra Terrestrial Physics), "The Gamma-ray Burst Monitor";
- 7) Elisabeth Ferrara (University of Maryland), "10 year celebration activities".

The attendance was a few hundred participants, including INFN and University of Pisa staff and University of Pisa students.

## **Outreach Activities**

In coincidence with the NEWS General Meeting it was originally planned to hold also the public seminar:

- 1) Carmela Luongo (INFN Pisa), "The University of Pisa Summer School Summer Students at Fermilab and other US Laboratories [3]".

This was a detailed presentation of the annual Summer School organized by INFN, University of Pisa and Fermilab for Master students. In 2018 the Summer School will be held between Monday, July 30, - Friday, September 28. Given the limited time available at the General Meeting, the public seminar was anticipated to Thursday, March 8, 2018, and held at the School of

Engineering of the University of Pisa (Aula Pacinotti). The seminar reported on the historical background of the Summer School, the students' recruitment procedure, the research activity pursued by the interns and logistics at Fermilab. Approximately 30 Master students in Physics and Engineering interested in applying to the Summer School attended the seminar.

Date, March, 20 2018

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## References

- [1] News First General Meeting - <https://agenda.infn.it/conferenceDisplay.py?confId=15359>.
- [2] Fermi-LAT Collaboration Meeting - <https://agenda.infn.it/conferenceDisplay.py?confId=14837>.
- [3] 2018 Summer Students Italian program at the Fermi National Accelerator Laboratory and other US Laboratories - <https://www.pi.infn.it/cdf/ss2015/PisaFermilabSummerSchool.html>