

# INTENSE: particle physics experiments at the intensity frontier. A cooperative Europe – United States effort.



UNIVERSITÀ  
DI PISA

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MUSE-RISE NEWS-RISE PROBES-RISE PRIMIS-FESR

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## Coordinator's Report (Part 1)

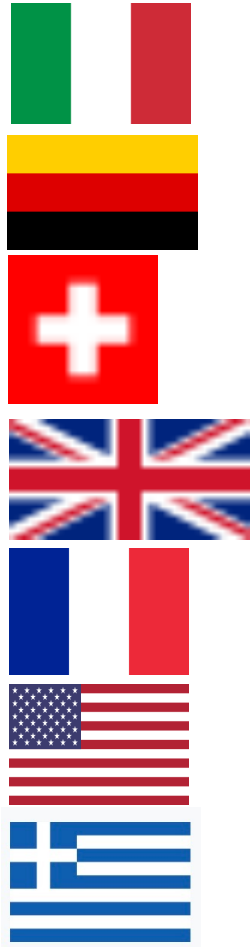
MidTerm Review Meeting, June 24, 2022

S. Donati

INTENSE is a H2020-MSCA-ITN-2019 effort (GA 858199)  
09/01/2020 – 08/31/2024  
<http://itnintense.df.unipi.it>

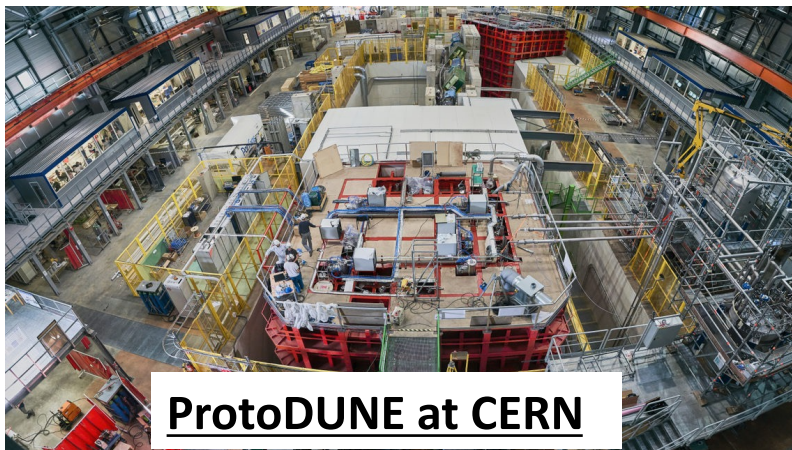
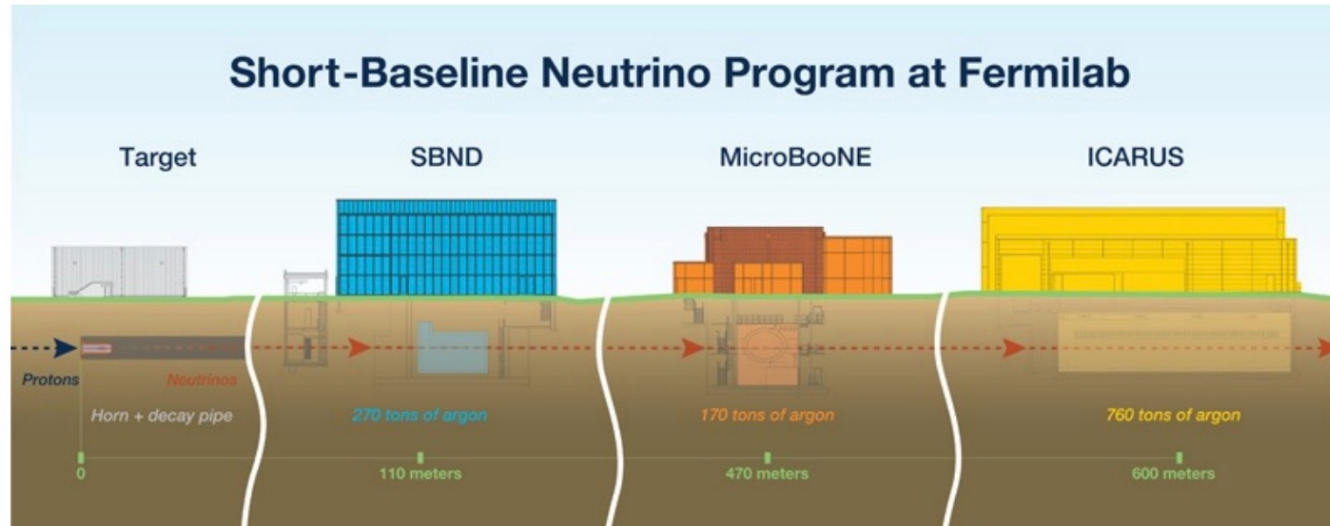


## A Cooperative Europe – United States Effort

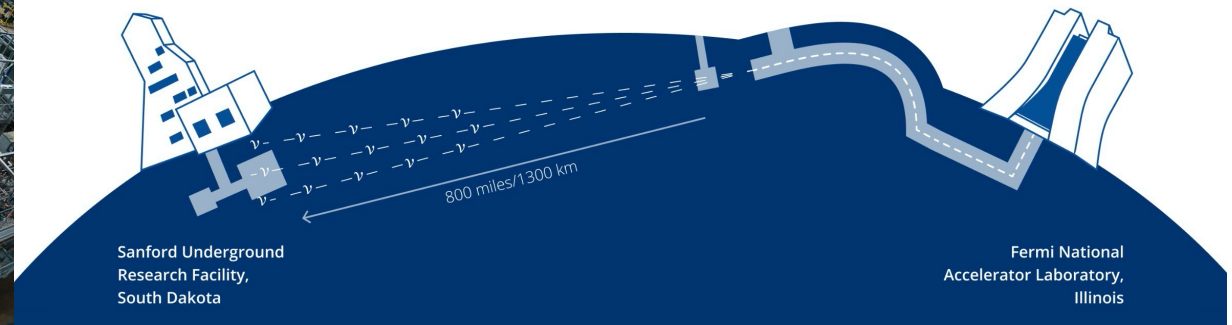


<b>Cuntry</b>	<b>Beneficiary</b>	<b>Recruitment</b>	
Italy	University of Pisa	1 ESR (36)	1 ESR (17.954)
	University of Padova	1 ESR (36)	
	Istituto Nazionale di Fisica Nucleare	1 ESR (36)	
	Costruzioni Apparecchiature Elettroniche Nucleari	1 ESR (18)	
Germany	University of Mainz	1 ESR (36)	
Switzerland	University of Bern	1 ESR (36)	
	CERN	1 ESR (18.894)	
	Paul Scherrer Institute	1 ESR (36)	
United Kingdom	University of Cambridge	1 ESR (36)	
	University of Manchester	1 ESR (36)	
France	Clever Operation	(Terminated April 2022)	
	<b>Partner</b>		
United States	Fermi National Accelerator Laboratory		
	Yale University		
	Harvard University		
	University of Chicago		
	SLAC		
Greece	Smart Engineering & Management		
France	Clever Operation	As of April 2022	

## INTENSE: particle physics experiments at the intensity frontier

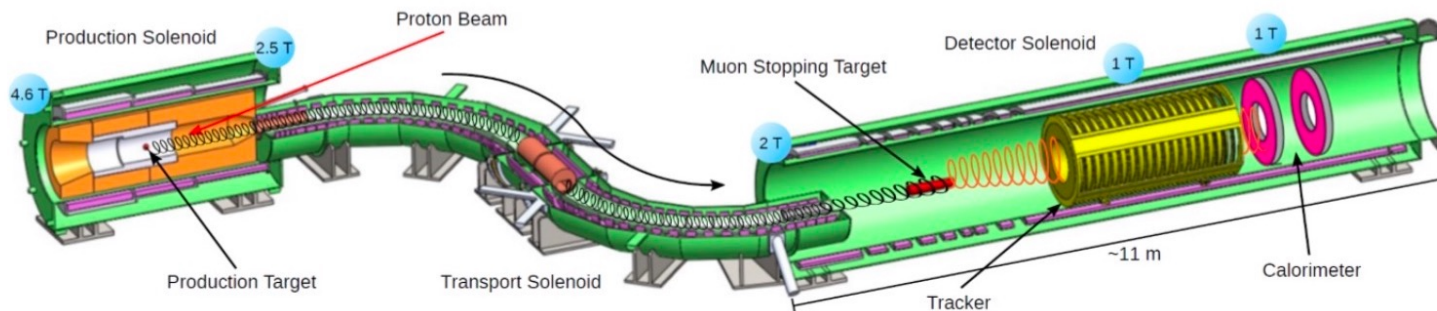


## Deep Underground Neutrino Experiment (DUNE) at Fermilab

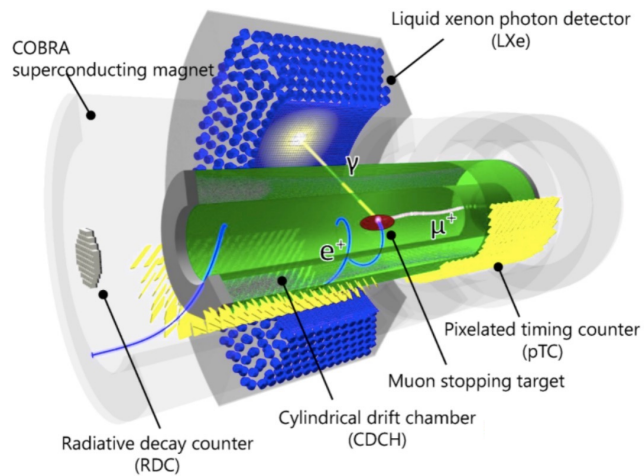


# INTENSE: particle physics experiments at the intensity frontier

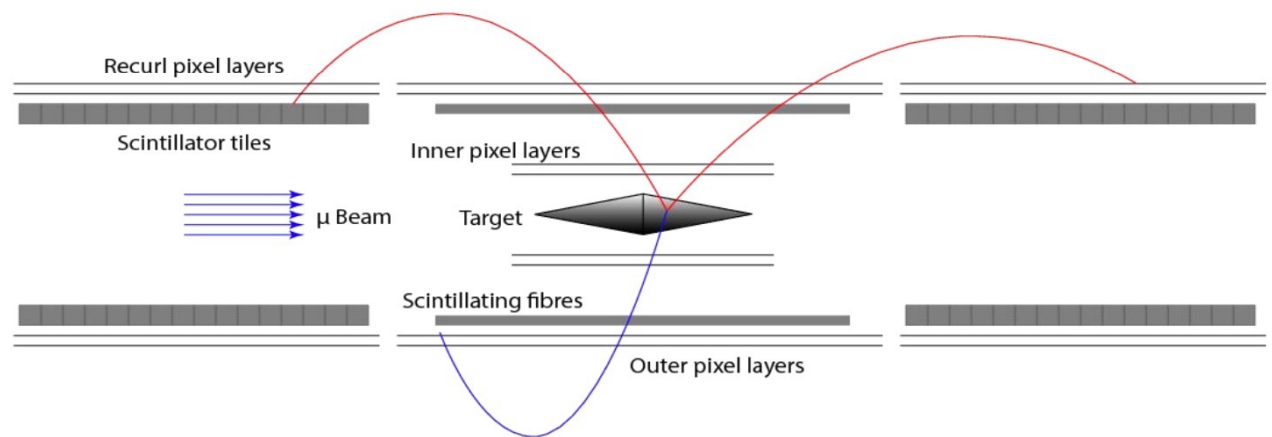
## Muon-to-electron conversion experiment (Mu2e) at Fermilab



## MEG-II experiment at Paul Scherrer Institute



## Mu3e experiment at Paul Scherr Institute



## **Recruitment Report – Advertisement of ESR Positions**

### **Adverts published in September 2020 on**

- Beneficiaries' web pages,
- INTENSE web site,
- Euraxess and Inspire.

### **Standard application procedures**

- Curriculum Vitae,
- Transcript of Studies Translated to English,
- Statement of Motivations,
- List of Publications,
- Two Letters of Recommendation.

D8.3 Advertisement of INTENSE Early Stage Reseaercher (ESR) Positions (09/2020)

## Recruitment Report – ESR Selections

### Selection Committees

University of Pisa	Simone Donati	Daniele Gibin	Christian Farnese	Radia Sia	
University of Padova	Daniele Gibin	Christian Farnese	Melissa Uchida	Radia Sia	Simone Donati
Istituto Nazionale di Fisica Nucleare	Angela Papa	Andreas Knecht	Radia Sia	Simone Donati	
Costruzioni Apparecchiature Elettroniche Nucleari	Alessandro Iovene	Radia Sia	Emanuela Barzi	Simone Donati	
University of Mainz	Niklaus Berger	Angela Papa	Alessandro Iovene	Radia Sia	Simone Donati
University of Bern	Michele Weber	Igor Kreslo	Melissa Uchida	Radia Sia	Simone Donati
CERN	Marzio Nessi	Sandro Palestini	Radia Sia	Ingrid Haug	Simone Donati
Paul Scherrer Institute	Andreas Knecht	Angela Papa	Radia Sia	Simone Donati	
University of Cambridge	Melissa Uchida	Leigh Whitehead	Oleg Brandt	Radia Sia	Simone Donati
University of Manchester	Mark Lancaster	Alex Keshavarzi	Radia Sia	Simone Donati	
Clever Operation	ESR Contract transferred to the University of Pisa				

Candidates' Interviews and selections proceeded smoothly, and were completed within the first few months of 2021.



## Recruitment Report – ESR Hiring

We had some complications with the hiring in some cases, due to the sanitary emergency which determined restrictions on the issuing of Visas and travelling.

### Researcher Declaration

No	Fellow Id	First Name	Last Name	Status	Recruitment Organisation	Start Date	End Date	Working Time Commitment	Duration	Actions
Argentina	1	Matias	Simonetto	SUBMITTI	Costruzioni Apparecchiature Elettroniche Nucleari Caen Spa	01-09-2021	31-08-2022	Full Time	12	
Italy	3	Giovanni	Dal Maso	SUBMITTI	Paul Scherrer Institut	01-03-2021	29-02-2024	Full Time	36	
Spain	4	Claudia	Alvarez-Garcia	SUBMITTI	The University Of Manchester	01-07-2021	30-06-2024	Full Time	36	
Italy	5	Lorenzo	Uboldi	SUBMITTI	Organisation Europeenne Pour La Recherche Nucleaire	01-01-2021	31-01-2022	Full Time	13	
Japan	6	Natsumi	Taniuchi	SUBMITTI	The Chancellor Masters And Scholars Of The University Of Cambridge	01-09-2021	31-08-2024	Full Time	36	
France	7	Hicham	Benmansour	SUBMITTI	Istituto Nazionale Di Fisica Nucleare	01-09-2021	31-08-2024	Full Time	36	
India	8	Shivaraj	Mulleria Babu	SUBMITTI	Universitaet Bern	01-03-2021	29-02-2024	Full Time	36	
India	9	Haris Avudaiyappan	Murugan	SUBMITTI	Johannes Gutenberg-universitat Mainz	01-10-2021	31-08-2024	Full Time	35	
India	2	Namitha	Chitirasreemadam	SUBMITTI	Universita Di Pisa	07-04-2021	06-04-2024	Full Time	36	
Spain	10	Maria	Artero Pons	SUBMITTI	Universita Degli Studi Di Padova	01-01-2021	31-12-2023	Full Time	36	

### D6.1 Define Career Development Plans (10/2021)

# Recruitment Report – Opening for one ESR at the University of Pisa

## May 2022: Amendment of the Grant Agreement

- We transferred the ESR contract of Clever Operation to the University of Pisa
- Same Training Program
- Same Team of Supervisors (Simone Donati, Radia Sia, Pavel Murat)
- Now the opening is online.

07/06/2022



## Early Stage Researcher (ESR) position at the Department of Physics of the University of Pisa

WHERE TO APPLY

CONTACT

SAVE TO FAVORITES

SHOW ON MAP

<b>ORGANISATION/COMPANY</b>	University of Pisa	<b>LOCATION</b>	Italy > 56127
<b>RESEARCH FIELD</b>	Engineering > Electronic engineering Physics > Electronics	<b>TYPE OF CONTRACT</b>	Temporary
<b>RESEARCHER PROFILE</b>	First Stage Researcher (R1)	<b>JOB STATUS</b>	Full-time
<b>APPLICATION DEADLINE</b>	15/07/2022 10:00 - Europe/Athens	<b>HOURS PER WEEK</b>	40



## Work Packages

### Eight Work Packages (5 Scientific, 3 Management)

	<b>Work Package</b>	<b>Lead Beneficiary</b>	
WP1	Neutrino Detectors	University of Bern	
WP2	Neutrino Physics: event reconstruction tools	University of Cambridge	
WP3	Neutrino Physics: data analysis	Istituto Nazionale di Fisica Nucleare	
WP4	Charged Lepton Flavour Violation Experiments	University of Manchester	
WP5	Charged Lepton Flavour Violation: data analysis	Paul Scherrer Institute	
WP6	Training	Istituto Nazionale di Fisica Nucleare	
WP7	Dissemination and Outreach	University of Manchester	
WP8	Management	University of Pisa	

## Deliverables – Milestones

### Deliverables and Milestones completed in due time

<b>Deliverables and Milestones</b>					
D8.3	Advertisement of ESR positions	Unipi	Report	Month-1	
D8.1	MB/SB appointed	Unipi	Report	Month-2	
D8.2	Consortium Agreement	Unipi	Report	Month-6	
D8.4	Progress Report	Unipi	Report	Month-13	
D6.1	Define Career Development Plans	Unipi	Report	Month-10	
D7.3	Web site	Unipi	Report	Month-5	
MS10	KickOff Meeting	Unipi	Report	Month-12	
MS9	Recruitment Completed	Unipi	Report	Month-12	
MS13	Annual Meeting	Unipi	Report	Month-9	

# Management Board – Scientific Board

## Management Board

<b>Management Board</b>	
Simone Donati (chair)	University of Pisa
Angela Papa	Istituto Nazionale di Fisica Nucleare
Daniele Gibin	University of Pisa
Alessandro Iovene	Costruzione Apparecchiature Elettroniche Nucleari
Marzio Nesi/Sandro Palestini	CERN
Michele Weber	University of Bern
Mark Lancaster	University of Manchester
Melissa Uchida	University of Cambridge
Niklaus Berger	University of Mainz
Andreas Knecht	Paul Scherrer Institute
Radia Sia	Clever Operation (Terminated April 2022)

## Scientific Board

	<b>Work Package</b>	
WP1	Neutrino Detectors	M. Weber, M. Nesi, A. Fava
WP2	Neutrino Physics: event reconstruction tools	L. Whitehead, D. Gibin, R. Guenette
WP3	Neutrino Physics: data analysis	A. Menegolli, A. Szeic, M. Uchida
WP4	Charged Lepton Flavour Violation Experiments	M. Lancaster, A. Papa, F. Spinella
WP5	Charged Lepton Flavour Violation: data analysis	A. Knecht, n. Berger, G. Pezzullo
WP6	Training	C. Farnese, R. Sia, A. Papa, M. Uchida
WP7	Dissemination and Outreach	M. Lancaster, C. Vignoli, F. Giordano
WP8	Management	S. Donati (chair)

**Work is progressing smoothly**

## Work Package 6 - Training

- The ESR have attended the compulsory courses provided by the PhD school they are enrolled to (standard courses in Particle Physics/Theoretical Physics/Astrophysics/Statistical Analysis of Data/ and many more).
- The ESR have attended international schools and courses of their own choice.
- We have organized a number of events, in connection with complementary initiatives and the ESR were invited to participate (mostly virtual participation)
  - Fermilab 2021 Summer Student School at INFN National Laboratory of Frascati (August 2-4, 2021)
  - International Workshop on Cosmic-Ray Muography (University of Ghent, November 24-26, 2021)
  - Annual Intense Workshop (February 2-4, 2022)
  - muEDM Workshop (May 12-13, 2022)
  - Fermilab 2022 Summer Student School at UNIFI (June 18-21, 2022)

## Work Package 6 - Training



FRASCATI  
AUGUST 2-4, 2021

INFN  
Istituto Nazionale di Fisica Nucleare  
Laboratori Nazionali di Frascati

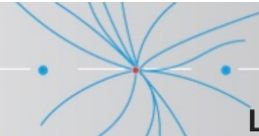
UNIVERSITÀ DI PISA

Fermilab

**Organizing Committee:**  
Emanuela Barzi (Fermilab)  
Giorgio Bellettini  
(Università di Pisa and INFN Pisa)  
Simone Donati  
(Università di Pisa and INFN Pisa)

**Local Committee - LNF INFN:**  
Stefano Miscetti (Chair)  
Eleonora Diociaiuti, Simona  
Giovannella, Fabio Happacher,  
Ivano Sarra  
Alessandra Tamborrino Orsini  
(Secretariat)

ITALIAN SUMMER STUDENT PROGRAM  
FERMILAB 2021



LABORATORI NAZIONALI DI FRASCATI

### Topical Workshop

*Involving the new generations in  
the future Fermilab endeavors*

**(August 2-4, 2021)**

#### 3-DAY FULL IMMERSION WORKSHOP

- 25 Physics/Engineering students from Italian Universities hosted at INFN - LNF
- Seminars on Feermilab experiments (Muon (g-2), Mu2e, SBN, DUNE and more) and technologies (accelerators, detectors, computing and more)
- Hands-on training by INFN experts / Visits to LNF infrastructures

## Day 1 (August 3, 2021)

### 1. Welcome and startup of the meeting

👤 Dr Stefano Miscetti (LNF)  
🕒 02/08/2021, 14:30  
Meeting Introduction (C...

### 2. Welcome from LNF director and LNF overview

👤 Dr Fabio Bossi (LNF)  
🕒 02/08/2021, 14:40  
Meeting Introduction (C...

### 3. The Gran Sasso Laboratories

👤 Prof. Ezio Previtali (LNGS)  
🕒 02/08/2021, 15:20  
Meeting Introduction (C...

### 4. FERMILAB (History, Present, Future and Summer Student role)

👤 Dr Nigel Lockyer (FERMILAB)  
🕒 02/08/2021, 16:30  
Fermilab history and neu...

### 5. The Fermilab Neutrino Program (Short and Long Baseline)

👤 Dr Gina Rameika (Fermilab), Stefano Miscetti (LNF)  
🕒 02/08/2021, 17:10  
Fermilab history and neu...

### 6. The INFN role on the Fermilab Neutrino program

👤 Prof. Sergio Bertolucci (INFN and University..., Stefano Miscetti (Istituto Nazionale di...)  
🕒 02/08/2021, 17:40  
Fermilab history and neu...

### 7. The role of ISSNAF in USA

👤 Prof. Cinzia Zuffada (ISSNAF)  
🕒 02/08/2021, 18:10  
Fermilab history and neu...

## Day 2 (August 4, 2021)

### 9. The g-2 experiment and the INFN contribution

👤 Dr Paolo Girotti (INFN Pisa)  
🕒 03/08/2021, 09:00  
The Fermilab Muon Cam...

### 10. The Mu2e experiment and the INFN contribution

👤 Dr Stefano Miscetti (Laboratori Nazionali...)  
🕒 03/08/2021, 09:45  
The Fermilab Muon Cam...

### 11. Visit to LNF Sites: DAFNE/KLOE, Syncr. Light, VisitorCenter/Mu2e, Lab experience

🕒 03/08/2021, 11:00  
Four groups of 5 students each, rotating among sites:

### 12. Overview of Fermilab work on Magnets

👤 Dr Emanuela Barzi (FERMILAB)  
🕒 03/08/2021, 14:30  
Fermilab Technological ...

### 13. The mission of FAST R/D accelerator project

👤 Dr Alexander Valishev (FERMILAB)  
🕒 03/08/2021, 15:15  
Fermilab Technological ...

### 18. Neutrino search in the ICARUS t600 detector

👤 Dr Christian Farnese (INFN Padova)  
🕒 03/08/2021, 16:30  
Fermilab neutrino sessio...

### 17. Status and commissioning of the ICARUS T600 detectors

👤 Dr Angela Fava (PD)  
🕒 03/08/2021, 17:00  
Fermilab neutrino sessio...

### 20. Physics with the NUMI beam in the T600 detector

👤 Dr Minerba Betancourt (FERMILAB)  
🕒 03/08/2021, 17:30  
Fermilab neutrino sessio...

### 19. SBND-PRISM: Sampling Multiple Off-Axis Fluxes with the Same Detector

👤 Dr Marco Del Tutto (FERMILAB)  
🕒 03/08/2021, 18:00  
Fermilab neutrino sessio...



## Day 3 (August 4, 2021)

### 21. From Particle to Wiggle plot: the data analysis of the Muon g-2 experiment

Dr Matteo Sorbara (INFN and University...)

04/08/2021, 08:55

The Fermilab Muon Cam...

### 30. High precision requires a perfect calibration: the g-2 laser system

Dr Elia Bottalico (INFN Pisa)

04/08/2021, 09:20

The Fermilab Muon Cam...

### 22. High Intensity Muon beams: the difficult path for the Mu2e Calorimeter technical choice

Dr Ivano Sarra (Laboratori Nazional...)

04/08/2021, 09:45

The Fermilab Muon Cam...

### 23. Visit to LNF Sites: DAFNE/KLOE, Synchr. Light, VisitorCenter/Mu2e, Lab experience

04/08/2021, 11:00

### 24. Scientific computing at Fermilab

Dr Marco Mambelli (Fermilab)

04/08/2021, 14:30

Computing, TDAQ and Q...

### 25. Development of a portable TDAQ system

Dr Ryan Rivera (FERMILAB)

04/08/2021, 15:00

Computing, TDAQ and Q...

### 27. Introduction to Quantum Machine learning

Dr Gabriel Nathan Perdue (Fermilab)

04/08/2021, 15:30

Computing, TDAQ and Q...

### 28. FNAL cosmic survey: DES, DESI and high-energy transients

Dr Antonella Palmese (FERMILAB)

04/08/2021, 16:30

The Fermilab Cosmic Fr...

### 29. FNAL cosmic survey: Cosmology with galaxy clusters and the Vera Rubin Observatory (LSST)

Dr Jim Annis (FERMILAB)

04/08/2021, 17:10

The Fermilab Cosmic Fr...

**THE INFN-LNF 2021 WORKSHOP REPLACED THE 9-WEEK INTERNSHIP AT FERMILAB WHICH WAS NOT POSSIBLE YET WE HAVE BEEN DOING OUR BEST TO KEEP THE CONNECTION BETWEEN FERMILAB FUTURE ENDEAVOURS AND THE MASTER STUDENTS ALIVE**

## Work Package 6 - Training



International Workshop on Cosmic-Ray Muography (Muography2021)

24–26 Nov 2021  
Ghent  
Europe/Brussels timezone

Enter your search term





# First Annual Workshop - INTENSE: Particle Physics Experiments at the Intensity Frontier.

2–4 Feb 2022  
Europe/Rome timezone



## Overview

Committees

Timetable

Speaker List

My Conference

My Contributions

Participant List

## Contact

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✉ [antonio.gioiosa@pi.infn.it](mailto:antonio.gioiosa@pi.infn.it)



**Starts** 2 Feb 2022, 08:00  
**Ends** 4 Feb 2022, 20:00  
Europe/Rome



University of Pisa  
Department of Physics  
Largo B. Pontecorvo 3, 56127  
Pisa, Italy



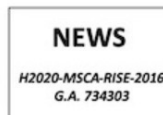
[Simone Donati](#)



[Innovative Training Network INTENSE](#)



INTENSE promotes the collaboration among European and US researchers involved in the most important particle physics research projects at the high intensity frontier. Lepton mixings and massive neutrinos offer a gateway to deviations from the Standard Model in the lepton sector including Charged Lepton Flavour Violation (CLFV). The FNAL Short-Baseline Neutrino (SBN) program based on three almost identical liquid argon Time Project Chambers located along the Booster Neutrino Beam offers a compelling opportunity to perform the precision measurement of the neutrino oscillation and the most sensitive search of sterile neutrinos at the eV mass scale through appearance and disappearance oscillation searches. The FNAL SBN program and the CERN ProtoDUNE are a major step towards the global effort in realising the Deep Underground Neutrino Experiment (DUNE). Mu2e at FNAL will improve the sensitivity on the search for the CLFV neutrinoless, coherent conversion of muons into electrons in the field of a nucleus by four orders of magnitude. MEG-II and Mu3e at PSI will improve the sensitivity on other CLFV muon decays. These endeavours foster the development of cutting-edge technologies with spin-offs also outside particle physics.



# Fermilab 2022 Summer Students School

18–21 Jul 2022

Pisa

Europe/Rome timezone

Enter your search term

Overview

Scientific Programme

Timetable

Contribution List

Participant List

## Contact

✉ [simone.donati@unipi.it](mailto:simone.donati@unipi.it)

✉ [barzi@fnal.gov](mailto:barzi@fnal.gov)

✉ [giorgiob@fnal.gov](mailto:giorgiob@fnal.gov)

The Italian Summer Student program at the Fermi National Accelerator Laboratory ([Fermilab](#)) started in 1983 within the rapidly-growing collaboration among the [University of Pisa](#), the National Institute of Nuclear Physics of Italy ([INFN](#)) and Fermilab. In the first year [3 undergraduate physics students](#) from the University of Pisa worked for 3 months at the construction of the Collider Detector at Fermilab (CDF). In the following almost 40 years, with altogether over [550](#) physics and engineering students employed in all Fermilab Divisions, the program has become part of the extensive Fermilab educational effort. To spread more broadly the beneficial effects of joining Fermilab research activities among EU students the University of Pisa has included this program among its educational Summer Schools since the year 2015. Accordingly, as of that year applicants can choose to enroll as [University of Pisa students](#) for the 9 weeks duration of the [Summer School](#). In 2022 the University of Pisa will provide an additional financial support to the students ([UNIFI Special Teaching Projects, 2022](#)). Upon successful completion of the training, the University of Pisa will grant them 6 "CFU" credits (see paragraph below on "Credits"). The University of Pisa Summer School is also part of the Outreach programs of a number of European Projects and Regione Toscana Projects:

[MUSE](#) - "Muon campus in US and Europe contribution" (Grant Agreement 690835, H2020-MSCA-RISE-2015),

[NEWS](#) - "New windows on the universe and technological advancements from trilateral EU-US-Japan collaboration" (Grant Agreement 734303, H2020-MSCA-RISE-2016),

[INTENSE](#) - "INTENSE: particle physics experiments at the high intensity frontier, from new physics to spin-offs. A cooperative Europe - United States - Japan effort" (Grant Agreement 822185, H2020-MSCA-RISE-2018),

[INTENSE](#) - "INTENSE: particle physics experiments at the high intensity frontier. A cooperative Europe - United States effort" (Grant Agreement 822199, H2020-MSCA-ITN-2019),

[PROBES](#) - "PROBES of new physics and technological advancements from particle and gravitational wave physics experiments. A cooperative Europe - United States - Asia effort" (Grant Agreement 101003460, H2020-MSCA-RISE-2020),



## Work Package 7 – Dissemination and Outreach – Web site



The screenshot shows the top navigation bar of the INTENSE website. The header is dark blue with white text. The main title reads: "INTENSE: particle physics experiments at the intensity frontier. A cooperative Europe – United States effort." To the right of the title is the logo of the University of Pisa, featuring a circular emblem with the text "IN SUPREMA DIGNITATE" and "1543", and the text "UNIVERSITÀ DI PISA" next to it. Below the title is a horizontal menu with links: Home, Partners, Organization, Work Packages, JOBS, Dissemination, Outreach, Meetings, Contacts, INTENSE-RISE, MUSE-RISE, NEWS-RISE, PROBES-RISE, PRIMIS-FESR, IRMA-FESR, and SNIFFER-FSC. A search bar is located on the right side of the header.

The main content area features a large photograph of the Pisa Cathedral and the Leaning Tower of Pisa. Below the photograph, the text reads: "INTENSE is a H2020-MSCA-ITN-2019 effort (09/01/2020 – 08/31/2024)."

On the right side of the main content area, there is a sidebar with a search bar and three sections: "Recent Posts" with one post "Hello world!"; "Recent Comments" with two comments: "admin on Hello world!" and "Mr WordPress on Hello world!"; and "Archives" with one entry "May 2016".

- INTENSE web site has a number of Sections to include the relevant information about the Participant Institutions, Organization, Work Packages, JOBS, Dissemination and Outreach and Contacts.
- D7.3 Web site itnintense.df.unipi.it (01/2021)

## Work Package 7 – Dissemination and Outreach

- INTENSE staff researchers organise and participate in International Conferences, Workshops dedicated to the development of particle physics experiments and instrumentation and show their work related to INTENSE. This includes writing Conference Proceedings and Articles in specialised Journals.
- A partial list is reported in the dedicated Section of the INTENSE web site [http://itnintense.df.unipi.it/?page\\_id=26](http://itnintense.df.unipi.it/?page_id=26)
- INTENSE Early Stage Researchers are encouraged to participate as well and show their work, talk to colleagues, and learn from such events as much as possible. Each Early Stage Researcher has inserted a brief List of his/her contributions to Conferences in his/her Talk.



## Next in the Agenda

### **This Session (Coordinator's Report)**

- WP 1, «Neutrino Detectors», Michele Weber (University of Bern)
- WP 2, «Neutrino Physics: event reconstruction tools», Daniele Gibin (University of Padova)
- WP 3, «Neutrino Physics: data analysis», Melissa Uchida (University of Cambridge)
- WP 4, «Charged Lepton Flavour Violation Experiments», Angela Papa (INFN)
- WP 5, «Charged Lepton Flavour Violation: data analysis», Niklaus Berger (University of Mainz)

### **Next Session (Fellows Individual Presentations)**

- Claudia Alvarez Garcia (University of Manchester)
- Namitha Chitirasreemadam (University of Pisa)
- Hicham Benmansour (Istituto Nazionale di Fisica Nucleare)
- Haris Avudaiyappan Murugan (University of Mainz)
- Giovanni Dal Maso (Paul Scherrer Institute)
- Maria Artero Pons (University of Padova)
- Shivaraj Mulleria Babu (University of Bern)
- Natsumi Taniuchi (University of Cambridge)
- Lorenzo Uboldi (CERN)
- Mattias Simonetto (Costruzione Apparecchiature Elettroniche Nucleari).