

# GGI 20<sup>th</sup> Anniversary



**20 YEARS OF THEORETICAL PHYSICS**

**60 EXTENDED WORKSHOPS, 67 SCHOOLS**

**AND .... SOMETHING MORE**

during the lock-down



As a response to the pandemic  
the GGI launched  
**Cortona Young**  
fully devoted to young researchers  
in theoretical physics

2020 - 2021

**Organising Committee:** Anna Ceresole, Marialuisa Frau, Ezio Maina, Domenico Orlando, Marco Taoso, Roberto Tateo, Paolo Torrielli (UniTO, INFN-TO), Stefania De Curtis (INFN-FI & GGI)

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**New Frontiers in Theoretical Physics**  
Convegno nazionale di fisica teorica

**CORTONA YOUNG**  
e-Conference for young researchers

Ivano Basile (SNS Pisa)  
Lorenzo Bianchi (INFN Torino)  
Simona Bianco (Università di Napoli)  
Marzia Bordone (Universität Siegen)  
Riccardo Borsato (IGFAE Santiago de Compostela)  
Marco Cardinali (Università di Pisa)  
Niccolò Cribiori (TU Wien)  
Eleonora Di Valentino (University of Manchester)  
Azeem Hasan (INFN Lecce)  
Elisa Maggio (Sapienza Università di Roma)  
Luca Mattiazzi (Università di Padova)  
Giovanni Pelliccioli (Universität Würzburg)

**27-29 May 2020**

Logos: INFN, UNIVERSITÀ DEGLI STUDI DI TORINO, The Galileo Galilei Institute For Theoretical Physics

**Organizers**  
Anna Ceresole, Marialuisa Frau, Ezio Maina, Domenico Orlando, Marco Taoso, Roberto Tateo, Paolo Torrielli (Università di Torino and INFN Torino), Stefania de Curtis (INFN Firenze and GGI)

[https://www.ggi.infn.it/cortona\\_young](https://www.ggi.infn.it/cortona_young)

we got so many applications (~150) that we decided to introduce the video-posters

we attributed awards for the best web-seminars and the best video-posters

**New Frontiers in Theoretical Physics**  
Convegno nazionale di fisica teorica

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Claudio Bonanno  
Andrea Dei  
Nicola Andrea Dondi  
Marco Fazzi  
Carlo Heissenberg  
Giacomo Landini  
Stefano Lanza  
Pavel Novichkov  
Chiara Paletta  
Elena Pinetti  
Rocco Rollo  
Paola Ruggiero  
Chiara Signorile-Signorile  
Christoph Andreas Ternes

**9-11 June 2021**

Stamp: **SECOND EDITION**

Logos: INFN, UNIVERSITÀ DEGLI STUDI DI TORINO, The Galileo Galilei Institute For Theoretical Physics

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2021 - 2022



A WEB-SEMINAR SERIES ON THE THEORY OF FUNDAMENTAL INTERACTIONS, COVERING A WIDE SPECTRUM OF ARGUMENTS AND OFFERING A SIMPLE INTRODUCTION TO SOME OF THE HOTTEST TOPICS IN THE FIELD

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**Organising Committee:** ROBERTO CONTINO, GUIDO D'AMICO, FRANCESCO D'ERAMO, VALENTINA FORINI, DAVID MARZOCCA, DOMENICO ORLANDO, ALESSANDRO SFONDRINI, ANDREA TESI, RICCARDO TORRE, ENRICO TRINCHERINI

**40 SEMINARS** given by the **WORLD'S LEADING EXPERTS**

The GGI Tea Breaks' seminars were **followed with great interest and participation** by the theoretical community and became an **unmissable weekly event every Wednesday at 5 PM**



GGI SEMINARS



# GGI TEA BREAKS

FOCUS MEETING

DATE  
19-05-2021, 5PM CEST

TITLE  
"NATURALNESS AND THE FUTURE OF HIGH ENERGY PHYSICS"



GIAN GIUDICE  
(CERN)



RICCARDO RATTAZZI  
(EPFL)

## ORGANIZING COMMITTEE

ROBERTO CONTINO  
(SNS & INFN PISA)

GUIDO D'AMICO  
(UNIV. & INFN PARMA)

FRANCESCO D'ERAMO  
(UNIV. & INFN PADOVA)

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INFN



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GGI SEMINARS



GABRIELE VENEZIANO  
(CERN AND COLLÈGE DE FRANCE)

DATE  
07-07-2021, 5PM CEST

TITLE  
"REFLECTIONS ON 50+ YEARS OF SUCCESS STORIES"



ABSTRACT  
I WILL SHARE SOME THOUGHTS PROMPTED BY THE AMAZING SUCCESSSES—BUT ALSO BY SOME PUZZLING ASPECTS— OF OUR PRESENT DESCRIPTION OF NATURE FROM THE SMALLEST SCALES OF ELEMENTARY PARTICLE PHYSICS TO THE LARGEST ONES OF GRAVITY AND COSMOLOGY.

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GGI SEMINARS



## GGI TEA BREAKS SPECIAL EDITION



### STEVEN WEINBERG AND HIS LEGACY

DATE  
19-01-2022, 3PM CET

ABSTRACT

THE GALILEO GALILEI INSTITUTE CELEBRATES STEVEN WEINBERG, A FOUNDING FATHER OF THE THEORY OF FUNDAMENTAL INTERACTIONS AND ONE OF THE GREATEST THEORETICAL PHYSICISTS OF THE LAST CENTURY, WITH A SPECIAL EDITION OF THE GGI TEA BREAKS.

RICCARDO BARBIERI (SNS, PISA)

THE STANDARD MODEL OF PARTICLE PHYSICS

HOWARD M. GEORGI (HARVARD UNIVERSITY)

EFFECTIVE FIELD THEORIES AND THE LOW-ENERGY LIMIT OF STRONG INTERACTIONS

EDWARD WITTEN (IAS PRINCETON)

ON THE ROLE AND MEANING OF SYMMETRIES IN FIELD THEORY

NIMA ARKANI-HAMED (IAS PRINCETON)

GRAVITY AS AN EFFECTIVE FIELD THEORY AND THE COSMOLOGICAL CONSTANT

#### ORGANIZING COMMITTEE

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We saturated soon our 1,000 accesses' licence on ZOOM !!



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The GGI TEA BREAKS have thousands of visualisations on YOUTUBE

an archive of great value

(abstracts, slides and videos available <https://www.ggi.infn.it/seminars.pl>)

## **G** GGI *Boost Post-Doctoral fellowships*

2021 - now

In 2021, the GGI started a research fellowship program dedicated to **very young researchers in theoretical physics** to give them the opportunity to **boost their career** and to contribute to the GGI activities

Since then **22 post-doc fellows got a one-year grant**

Their work at the GGI has been scientifically stimulating, as reflected in their publications, seminars and the career following the GGI fellowship

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every year  
in December

SEPTEMBER 21, 2021

FIRST EDITION OF

*Women in Theoretical Physics*  
AWARD CEREMONY

2021 - now

The INFN National Prize to the **best Master Thesis in Theoretical Physics**, aims to encourage the presence of women researchers in this area of physics, and is dedicated to **Massimilla 'Milla' Baldo Ceolin** an internationally renowned researcher in the field of particle physics and the first woman to hold a full professorship at the Univ. of Padua



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The award ceremony is held **every year at the GGI**

To date, **45 young scientists have been honored**

They are now carrying forward their research as PhD students first and as postdoctoral fellows around the world

**4 Novembre 2025, Galileo Galilei Institute,  
Largo Enrico Fermi, 2 Firenze**

*Women in Theoretical Physics*

**Premio Nazionale INFN "Milla Baldo Ceolin" 2024**  
Alle migliori Tesi di Laurea Magistrale in Fisica Teorica

**15:00 Saluti istituzionali**

**Intervengono:**  
*Prof. Antonio Zoccoli*  
Presidente dell'INFN  
*Dott. Fulvio Piccinini*  
Direttore del GGI  
*Prof.ssa Alessandra Petrucci*  
Magnifica Rettrice dell'Università di Firenze  
*Prof.ssa Stefania Salvadori*  
Dipartimento di Fisica e Astronomia dell'Università di Firenze

**Presentazioni delle vincitrici**

Maddalena Ferragatta	(Univ. di Torino)
Eulalia Gambera	(Univ. di Catania)
Olimpia Miniati	(Univ. di Firenze)
Camilla Forgione	(Univ. di Torino)
Elisabeth Keppler	(Univ. di Trieste)
Eugenia Dallari	(Univ. di Firenze)
Valentina Genesisini	(Univ. di Ferrara)
Michela Sestu	(Univ. di Cagliari)
Margherita Sagina	(Univ. di Pisa)
Chiara Anselmo	(Univ. di Roma Sapienza)

**17:30 "La fisica nucleare e i raggi cosmici al Garbasso"**  
Visita ai locali dedicati alla radioattività, ai raggi cosmici e all'acceleratore KN3000

**Intervengono:**  
*Prof. Daniele Dominici, Prof. Pier Andrea Mandò, Prof. Giacomo Poggi*  
Università degli Studi di Firenze

**20:00 Cena**

[www.ggi.infn.it/womeninTH24](http://www.ggi.infn.it/womeninTH24)  
INFO [segreteriaaggi@fi.infn.it](mailto:segreteriaaggi@fi.infn.it)

**INFN**  
Istituto Nazionale di Fisica Nucleare  
Centro Nazionale di Studi Avanzati  
The Galileo Galilei Institute for Theoretical Physics

**UNIVERSITÀ  
DEGLI STUDI  
FIRENZE**

The very first staging live of the play **"La Forza Nascosta: Scienziate nella Fisica e nella storia"** ("The Hidden Force / Women in Physics and History") that would go on to travel far and wide, finding extraordinary resonance and success



Conceived and curated by:  
Anna Ceresole, Nora De  
Marco, Emiliana Losma,  
Simonetta Marcello, Nadia  
Pastrone, Rita Spada

The play offers a view of twentieth century's Physics through the eyes of four only partly credited protagonists: Vera Cooper Rubin, Marietta Blau, Chien Shung Wu and Milla Baldo Ceolin

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A beautiful way to honor the very first laureates of the INFN national "Women in Theoretical Physics" Prize dedicated to Milla Baldo Ceolin



# Theory Meets Experiments (TME) School

2023 - now

In 2023 a further school has been introduced in the GGI activity plan

TME is attended by **PhD students** selected among the **TH** and **EXP communities**

It aims at providing **lectures covering basic topics from a theoretical as well as experimental point of view** on a hot topic in the physics of fundamental interactions which is suitable for a synergetic approach joining theory and experiments

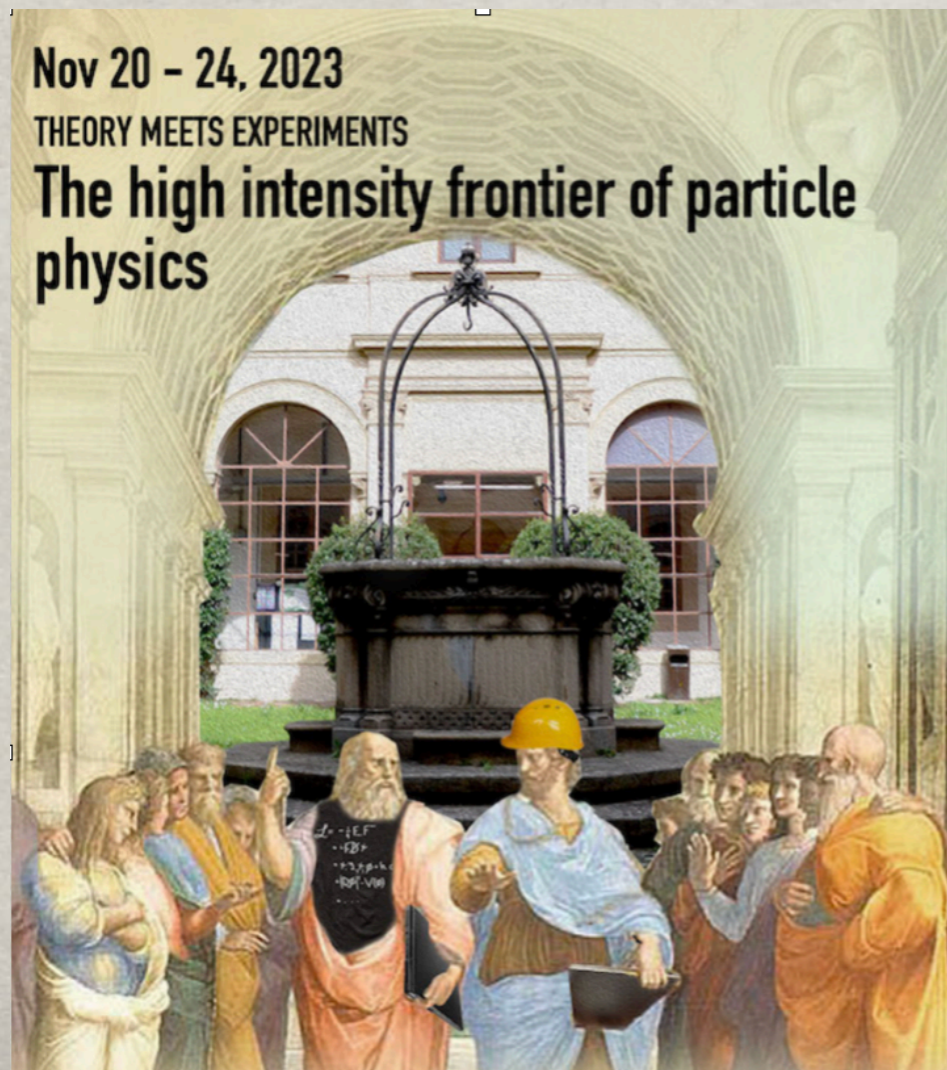
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THEORY MEETS EXPERIMENTS Nov 11 - 22, 2024  
**Neutrinoless double beta decay:  
the experimental programme and its fundamental  
and nuclear theory connections**

THEORY MEETS EXPERIMENTS Nov 10 - 21, 2025  
**Direct Detection across Dark Matter  
mass ranges**

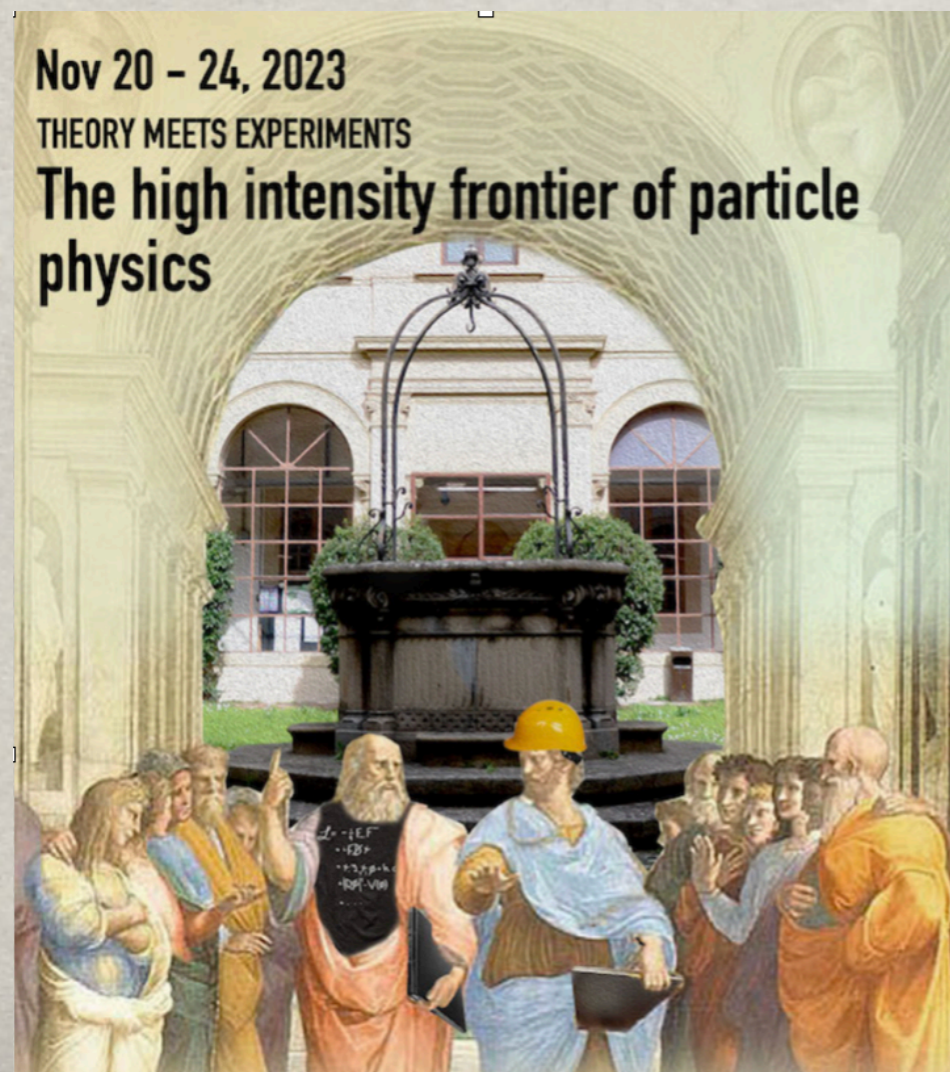
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Very positive exit reports by the  
organisers and the students

# G GRASPING THE COSMOS

2022 - 2024

An **Art&Science project** with the production of accessible cultural offering from exchanges between frontier research, history of science and contemporary artistic practices

Part of a Regional Research, Development and Innovation Project of the Tuscany Region promoted by the GGI and the Museum System of the University of Florence

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Curated by **Valeria D'Ambrosio**, an art historian and contemporary art curator and by the physicist and science communicator **Pietro Centorrino**, GRASPING THE COSMOS was developed in three phases, two of them with an **artist-in-residence** during the 2023 and 2024 editions of the **GGI PhD school on Astroparticle Physics, Cosmology and Gravitation**



Artist Daniela De Paulis during the presentation of her work at the GGI (2024)

**SISTEMA MUSEALE DI ATENEVO UNIVERSITÀ DEGLI STUDI DI FIRENZE**

**INFN** 881 Istituto Nazionale di Fisica Nucleare Galileo Galilei Institute

**INFN** CC3M

**villa GALILEO**

# il SENSO delle STELLE

**sabato 22 aprile 2023**  
**INAUGURAZIONE MOSTRA**  
**Tendo a esistere**  
 ore 17  
**Galileo Galilei a Villa Il Gioiello**  
 Con Paolo Galluzzi, storico della scienza  
 Museo Galileo | Accademia dei Lincei

**sabato 29 aprile 2023**  
**UN TÈ CON GALILEO**  
**Il Saggiatore**  
 ingresso gratuito su prenotazione  
 ore 17  
**Il libro della natura**  
**La natura è scritta in lingua matematica?**  
 Laboratorio per misurare le cose lontane  
 Con Pietro Centorrino e Diana Tartaglia  
 Università degli Studi di Napoli Federico II

**sabato 6 maggio 2023**  
**UN TÈ CON GALILEO**  
**Il Saggiatore**  
 ingresso gratuito su prenotazione  
 ore 17  
**Avvicinare il cielo**  
 Osservare lo spazio e il tempo, come le lenti hanno modificato la nostra visione del mondo  
 Con Pietro Centorrino, Samuele Straullino  
 OpenLab | UniFi e Bartolomeo Trefoloni  
 INAF | UniFi

**sabato 13 maggio 2023**  
**UN TÈ CON GALILEO**  
**Il Saggiatore**  
 ingresso gratuito su prenotazione  
 ore 17  
**La favola dei suoni**  
 Sensi e fisica: dove nasce la musica e perché ci piace?  
 Con Pietro Centorrino ed Elisabetta Baldanzi, fisica  
 CNR | INO

**L'ARTE**  
**i messaggeri cosmici**  
 ingresso gratuito senza prenotazione

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**ore 18:30**  
**Visita in mostra**  
 Con Federica Di Carlo, artista in residenza alla scuola *Theoretical Aspects of Astroparticle Physics, Cosmology and Gravitation del GGI*

**ore 18:30**  
**Muoni**  
 Con Valeria D'Ambrosio e Francesco Bevacqua, fisico  
 Opus Lab

**ore 18:30**  
**Neutrini**  
 Con Valeria D'Ambrosio e Nicolao Fornengo, fisico  
 INFN Torino, Università di Torino, organizzatore della scuola del GGI

**VISITE GUIDATE**  
 Sabato 29 aprile  
 Sabato 6 e 13 maggio  
 ore 16  
 ingresso gratuito su prenotazione

Tel. 055 2756444  
 edu@sma.unifi.it  
 www.sma.unifi.it

**VILLA GALILEO**  
 Via del Pian dei Giullari, 42  
 Firenze

Con il patrocinio del **COMUNE DI FIRENZE**

**GRASPING THE COSMOS**

**CACTUS**

# G GRASPING THE COSMOS

A cultural program fostering dialogue between art and science, designing collective and co-creative events, educational activities and outreach initiatives



Conference at Villa Galileo during the inauguration of the exhibition Inner Worlds Outer Spaces by Daniela De Paulis (2024)



Guided tour of the exhibition "Tendo a esistere" by Federica Di Carlo (2023)

[ <https://graspingthecosmos.infn.it/> ]

V. D'Ambrosio and SDC,  
Il Colle di Galileo, Vol 14, No 2 (2025)  
Firenze University Press



Guided tour of the exhibition "Tendo a esistere" by Federica Di Carlo (2023)



2015-2023

2024-2027

The GGI has been **awarded 2 times** the SIMONS Foundation Grant to Institutes



2015-2023

2024-2027

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The first grant of 600\$ was for a five-year period **to support extended visits of eminent scientists within the workshops**

Due to the COVID-19 outbreak and the suspension in-person activities the GGI obtained an extension of the grant until June 30, 2023



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2024-2027

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The second grant of 500\$ is for a three-year period **to support the "Simons Visiting Program at GGI"** covering four different types of collaboration with GGI activities:

- Long-term visits by scientists
- Participation of renowned scientists to workshops
- Participation to the GGI activities of researchers and PhD students from institutions with limited funding
- Short-term "Visiting Research Teams" program

A partnership is established with the **Pollica Physics Centre**, a recently established institute which organizes theoretical and mathematical physics workshops

On **7 February 1926**, Antonio Garbasso, Director of the Institute of Physics at the Royal University of Florence, presented a paper by 25-year-old **Enrico Fermi** entitled "***On the Quantization of the Perfect Monoatomic Gas***" for publication in the Proceedings of the Accademia Nazionale dei Lincei. An expanded version in German was received by Zeitschrift für Physik on **24 March 2026**.

100 years ago

This work proved to be fundamental in many fields of physics and is the basis for numerous modern technological applications [R. Casalbuoni and D. Dominici arxiv:2602.04484]

[From Florence to Fermions: a historical reconstruction of the origins of Fermi's statistics one hundred years later]

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[From Florence to Fermions: a historical reconstruction of the origins of Fermi's statistics one hundred years later]



In the cloister of Arcetri, around the well: Enrico Fermi, Nello Carrara, Franco Rasetti and Rita Brunetti



TmE School  
November 2023



Workshop "Next Frontiers in the Search  
for Dark Matter" September 2019



LACES School  
December 2024



Workshop "Next Frontiers in the Search

**The GGI is keeping the spirit of Arcetri alive**



TmE School  
November 2023



LACES School  
December 2024



Workshop "Next Frontiers in the Search

**The GGI is keeping the spirit of Arcetri alive**

**I wish it will do more in the next 20 years !**



TmE School  
November 2023



LACES School  
December 2024