

HIGGS 2022

November 7-11 Pisa, Italy

<https://www.pi.infn.it/Higgs2022>

International Organising Committee

Ilaria Brivio (Heidelberg University)
Fabrizio Caola (Oxford University)
Viviana Cavaliere (BNL)
Nathaniel Craig (UC Santa Barbara)
Stefania Gori (UC Santa Cruz)
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Aidan Robson (University of Glasgow)
Roberto Salerno (LLR)
Kerstin Tackmann (DESY & University of Hamburg)
Mika Vesterinen (University of Warwick)
Meng Xiao (Zhejiang University)

Local Organising Committee

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Paolo Spagnolo (INFN Pi)
Guido Tonelli (UniPi)
Monica Verducci (UniPi)
Lorenzo Viliani (INFN Pi)

Concluding remarks

Ilaria B, Fabrizio C, Viviana C, Nathaniel C, Marco D,
Stefania G, Gudrun H, Giovanni P, Giacinto P, Stefano P,
Aidan R, Roberto S, Kerstin T, Mika V, Meng X.

(Higgs conference IOC)





Higgs 2022 in Pisa

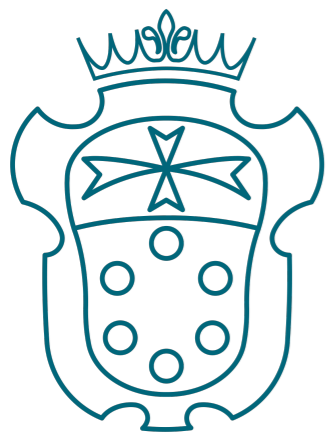
- Finally back to meeting in-person!
 - Last time we did was at Higgs **Couplings** 2019 (127 participants)
- Everybody was eager to finally meet in person again....
- ... and nobody could resist from attending a conference in the beautiful and historical setting of Pisa!
- **172** of you attending in-person in Pisa! (**+35% w.r.t 2019**)
 - ~189 people in total from 26 countries
- **103** plenary + parallel talks
- THANK YOU ALL!!!



Higgs 2022 in Pisa

- Clearly we had to recover the two years lost...
- Not one but ...





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Higgs 2022 in Pisa

- ...two pictures :-)





Physics Program

- We had an excellent and broad plenary program!
- Huge thanks to the **Program Committee!**
 - Ilaria Brivio, Heidelberg University
 - Dario Buttazzo, INFN Pisa
 - Fabrizio Caola, Oxford University
 - Marco Delmastro, LAPP Annency
 - Paolo Francavilla, INFN Pisa
 - Andrea Rizzi, Università di Pisa (**chair**)
 - Aidan Robson, University of Glasgow
 - Lorenzo Sestini, INFN Padova
 - Meng Xiao, Zhejiang University



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 - Aidan Robson, University of Glasgow
 - Lorenzo Sestini, INFN Padova
 - Meng Xiao, Zhejiang University





Physics Program

- We had an equally excellent parallel program, as well as lots of discussion!

- Huge thanks to the Track Conveners:

- EFT
 - Adinda deWit (Zurich U)
 - Anke Biekötter (Mainz U)
 - Sandra Kortner (MPP Munich)
 - Yukawa
 - Andrew Chisholm (Birmingham U)
 - Raffaele Gerosa (UC San Diego)
 - Marco Zaro (Milan U)
 - Future
 - Marianna Testa (LNF Frascati)
 - Nan Lu (USTC, Hafei)
 - Adrian Irlles (IFIC Valencia)
 - Caterina Vernieri (SLAC)
 - Precision
 - Haichen Wang (LBNL)
 - Ulascan Sarica (Santa Barbara)
 - Raoul Rontsch (CERN)
 - HH
 - Alessandra Betti (Rome I U)
 - Giacomo Ortona (LLR Paris)
 - Ramona Grober (Padova U)
 - BSM
 - Lei Zhang (Nanjing U)
 - Linda Finco (Nebraska U)
 - Diogo Buarque Franzosi (Ch. U. T.)
- Tatsuya Masubuchi (Tokyo), Karsten Koeneke (Freiburg U)



Cultural program

- We were wonderfully taken care of by the Local Organizing Committee!

Round table for public/students on Wednesday

Monteverdi concert on Monday
(special thanks to Franco Ligabue)





Cultural program

- We celebrated 100 years since Enrico Fermi turned in his PhD thesis in Pisa

Exhibition at Scuola Normale

Enrico Fermi
a 100 anni dalla laurea a Pisa

Mostra multimediale di documenti e strumenti sulla vita del giovane Fermi

14 OTTOBRE - 11 NOVEMBRE 2022

Biblioteca della Scuola Normale Superiore
Sede di Palazzo della Canonica
via San Frediano, 24 - Pisa

- La Mostra ripercorre la vita e il lavoro di Enrico Fermi nei suoi anni giovanili quando da Roma venne a Pisa a studiare all'Università e alla Scuola Normale. Attraverso documenti, lettere, libri d'epoca, video e strumentazione originale, viene ricostruito l'ambiente culturale nel quale il giovane si formò iniziando il percorso di studi teorici e sperimentali che lo portò, nel 1938, a Stoccolma per ritirare il Premio Nobel per la Fisica.

Comitato Scientifico e Organizzatore

- ARIANNA ANDREI (Scuola Normale Superiore)
- RINO CASTALDI (INFN Pisa)
- ALESSANDRO CORSI (Università di Pisa)
- ELISA GUIDI (Scuola Normale Superiore)
- CLAUDIO LUPERINI (Università di Pisa)
- MARCO M. MASSAI (Università di Pisa)
- ENRICO MARTELLINI (Scuola Normale Superiore)
- MARIA PINA MORO (Scuola Normale Superiore)
- GLORIA SPANDRE (INFN Pisa)

- La Mostra sarà aperta tutti i giorni dal lunedì al sabato dalle ore 10.00 alle ore 19.00
- Ingresso libero fino ad esaurimento posti (max. 25)
- Per gruppi o classi è richiesta prenotazione al LIMK

Per informazioni
050 2214000 (INFN)
050 509307
eventiculturali@sns.it

Talk by Prof. Paolo Rossi on the “early” Enrico Fermi

5:45 PM

Portrait of Enrico Fermi as a young scientist (his thesis in Pisa and early articles)

🕒 35m

In the years 1922-1926 Enrico Fermi, then in his early twenties, was scientifically active in Pisa, Gottingen, Leiden and Florence. Apart from his experimental thesis on X rays, most of his research activity was purely theoretical, and covered a wide spectrum of issues, from general relativity (Fermi coordinates, electromagnetic mass) to statistical mechanics (Fermi statistics), from atomic physics to collision theory (method of virtual photons) and to the newborn wave mechanics. We briefly review the main results he obtained in that period, stressing their originality and permanent relevance.

Speaker: Prof. Paolo Rossi (Università di Pisa - Dipartimento di Fisica “E. Fermi”)

Fermi young scienti...



Social program

- We had a wonderful dinner yesterday at Arsenali della Repubblica.



- And the Higgs Boson even got a proper cake for his 10th birthday!!





Local organization

- Really: everything was taken care of!

- Even last week's weather forecast must have been taken into account!





Local organization

- This conference was possible thanks to the dedication of a lot of people.
- Thanks a lot to:
 - Scientific secretariat
 - Registration managers
 - Management of grants and financial support
 - IT Support (both at Pisa and at CERN)
 - Video Director
 - Outreach Events
 - Press office
 - General services
 - IUPAP
 - Would like to thank all of them!





Local organization

- This conference was possible thanks to the dedication of a lot of people.
- Strongly supported by several institutions:



Istituto Nazionale di Fisica Nucleare
Sezione di Pisa
Sezione di Firenze



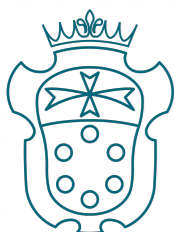
The Galileo Galilei Institute for Theoretical Physics



Università degli Studi Firenze



Università di Pisa



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Scuola Normale Superiore di Pisa



Associazione Frontier Detectors for Frontier Physics



Associazione Ricerca Fondamentale in Fisica



Comune di Pisa

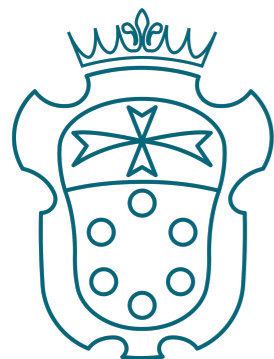


Local organization

- Together with the LOC, we would like to highlight the key role of one person per institution:



UNIVERSITÀ DI PISA



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Istituto Nazionale di Fisica Nucleare

- **Dott.ssa Elena Tonsini**

- **Dott.ssa Elisa Guidi**

- **Dott.ssa Lucia Lilli**
(INFN Pisa)

- **THANK YOU!!!**



Local organization

- Huge thanks to the whole Pisa Higgs 2022 Local Organizing Committee:

Paolo Azzurri
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Rino Castaldi
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Silvio Donato

Paolo Francavilla - Chair

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Lorenzo Viliani





Local organization

- We are all particularly indebted to Paolo FRANCAVILLA for his tireless work as Chair of the Higgs 2022 Local Organizing Committee...



THANK YOU
Paolo !!!



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**Thanks everyone
for attending, and
hope to see many
of you next year
at Higgs 2023!**



higgs2022@pi.infn.it