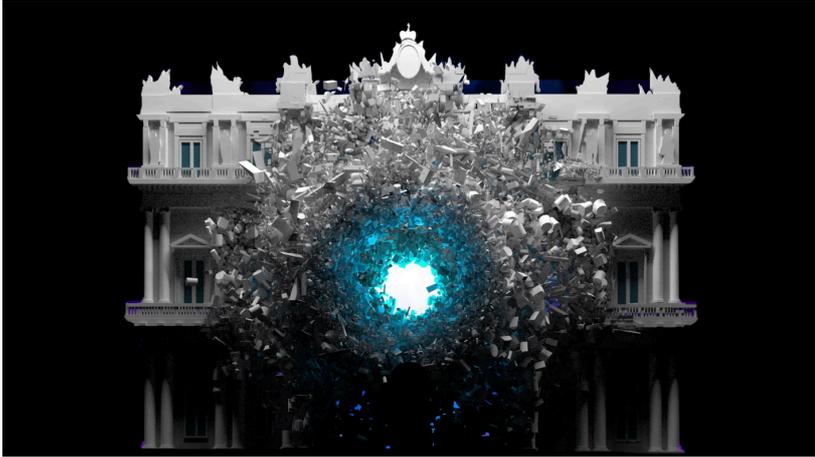


# Newsletter TAKE PART IN

## PARTICLES AND QUANTA AT THE GENOA FESTIVAL



### FESTIVAL DELLA SCIENZA DI GENOVA, Genova

(<https://collisioni.infn.it/evento/infn-al-festival-della-scienza-di-genova-2022-linguaggi/>)

INFN events at the Genoa Science Festival, now in its 20<sup>th</sup> year, are back for 2022. Running from 20 October to 1 November with the theme "Languages," the festival will host lectures, art installations and workshops for schools by INFN. The 10<sup>th</sup> anniversary of the Higgs boson's discovery will be celebrated with a spectacular videomapping created on the facade of Palazzo Ducale, in the heart of the festival and the city, and by a dedicated conference show, the second after the Festival's opening event, also curated by INFN, focusing on the fascinating and counterintuitive world of quantum physics.

*All the events will be held in Italian.*

### Lectures

**20 OCTOBER, 9 p.m., Hall of the Great Council, Ducal Palace**

#### **QUANTUM**

##### **The word that changed physics**

Conference show with Marco Pallavicini, INFN vice president, and Danilo Rea, pianist

Information and reservations (<https://www.festivalscienza.it/site/home/programma-2022/eventi-in-presenza/quanto.html>)

**22 OCTOBER, 9 p.m., Hall of the Great Council, Ducal Palace**

#### **THE LAST KNOWN PARTICLE OF MATTER**

**A dialogue in music from the Higgs Boson to the Dark Universe**

Conference show with Marco Ciuchini, INFN vice president, Mia Tosi, researcher INFN Padua Division, Antonio Zoccoli, INFN president, readings by and music by TBD

Information and reservations (<https://www.festivalscienza.it/site/home/programma-2022/eventi-in-presenza/l146ultima-particella-della-materia-conosciu.html>)

**24 OCTOBER, 6:30 p.m., Hall of the Minor Council, Ducal Palace**

**IS EINSTEIN STILL RIGHT?**

**Black holes imaged with the Event Horizon Telescope**

Conversation with Mariafelicia De Laurentis, researcher INFN Naples Division and University Federico II of Naples, and Ciriaco Goddi, researcher at INAF, INFN and University of Cagliari, members of the Event Horizon Telescope collaboration

Information and reservations (<https://www.festivalscienza.it/site/home/programma-2022/eventi-in-presenza/einstein-ha-ancora-ragione.html>)

**26 OCTOBER, 6:30 p.m., Baltimora Garden Sea-Ty**

**THE END OF ASIMOV PRIZE AND THE NEW BEGINNING**

**Final event of the 7<sup>th</sup> edition and presentation of the 8<sup>th</sup> edition**

With Giovanni Gallucci, INFN, Marco Pallavicini, INFN vice president and Genoa Science Festival president, Agnese Collino, biologist and science communicator, and Licia Troisi, astrophysicist and writer, ex-aequo winners of 2022 Asimov Prize edition, moderated by Francesco Vissani, INFN and Silvano Fuso.

**28 OCTOBER, 9 p.m., Teatro della Tosse - Sala Dino Campana**

**PRACTICALLY NEGLIGIBLE**

**The discovery of gravitational waves, between science and jazz**

With Eugenio Coccia, professor of Astrophysics at GSSI, Fabio Colella, musician, Paola Crisigiovanni, pianist and composer, Gabriele Pesaresi, bassist and double bass player

Information and reservation (<https://www.festivalscienza.it/site/home/programma-2022/eventi-in-presenza/praticamente-trascurabili.html>)

**30 OCTOBER, 6.30 p.m., Hall of the Minor Council, Ducal Palace**

**FROM QUARKS TO GALAXIES**

**Journey from the micro to the macrocosm**

Dialogue with Gianpaolo Bellini, physicist at INFN and University of Milan, Marco Bersanelli, professor of astrophysics at the University of Milan, Enrico Bonatti, geophysicist, Accademia Nazionale dei Lincei, Roberto Battiston, professor of experimental physics at the University of Trento

Information and reservations (<https://www.festivalscienza.it/site/home/programma-2022/eventi-in-presenza/dai-quark-alle-galassie.html>)

**30 OCTOBER, 9 p.m., Hall of the Great Council, Ducal Palace**

**THE SOUND OF THE UNIVERSE**

**Translating astronomical data into sound**

Dialogue with Marica Branchesi, professor at GSSI, Wanda Diaz Merced, researcher at the European Gravitational Observatory, Stavros Katsanevas, European Gravitational Observatory director, Massimo Magrini,

computer scientist, electronic musician and interaction designer, moderated by Andrea Parlangeli, editor-in-chief of Focus

Information and reservations (<https://www.festivalscienza.it/site/home/programma-2022/eventi-in-presenza/il-suono-delluniverso.html>)

### **Exhibitions and installations**

**20 OCTOBER - 1 NOVEMBER, 6 to 11 p.m., Ducal Palace - Matteotti Square**

#### **SHAPES AND COLORS OF A DISCOVERY**

##### **Ten years after the Higgs boson discovery**

Videomapping by INFN, with support from ASG Superconductors; video projection mapping Luca Agnani Studio.

Learn more (<https://www.festivalscienza.it/site/home/programma-2022/eventi-in-presenza/forme-e-colori-di-una-scoperta.html>)

**20 OCTOBER - 1 November, Palazzo Rosso - Strada Nuova Museums**

#### **FACES AND CHALLENGES OF PHYSICS**

##### **Discovering a revolutionary century**

Exhibition curated by INFN ScienzaXTutti, in collaboration with ISIA Rome

Find out more (<https://www.festivalscienza.it/site/home/programma-2022/eventi-in-presenza/volti-e-sfide-della-fisica.html>)

### **Laboratories**

**20 OCTOBER - 1 NOVEMBER, Palazzo Rosso - Musei di Strada Nuova**

#### **WITH ICARUS ON THE TRAIL OF NEUTRINOS**

##### **The secrets of a particle detector**

Workshop on particle detectors, from 14 years old, organized by INFN Genoa Division

Information and reservations (<https://www.festivalscienza.it/site/home/programma-2022/eventi-in-presenza/con-icarus-sulle-tracce-dei-neutrini.html>)

**20 OCTOBER - 1 NOVEMBER, Genoa University Library**

#### **FROM THE BIG BANG TO US**

##### **The snake and ladders game on the history of the universe**

Workshop-game from 6 to 10 years old, organized by INFN

Information and reservations (<https://www.festivalscienza.it/site/home/programma-2022/eventi-in-presenza/dal-big-bang-a-noi.html>)

**27 - 30 OCTOBER, Palazzo Rosso - Strada Nuova Museums**

#### **VIRTUAL REALITY AND PARTICLE PHYSICS**

##### **Visit to the Belle II experiment**

Workshop on particle detectors with virtual reality, from 14 years old, organized by INFN

Information and reservations (<https://www.festivalscienza.it/site/home/programma-2022/eventi-in-presenza/realta-virtuale-e-fisica-delle-particelle.html>)

## **Digitour for schools**

### **21 OCTOBER, 9 a.m.-10 a.m., ARGON FOR DARK MATTER**

Information and reservations (<https://www.festivalscienza.it/site/home/programma-2022/eventi-online-per-le-scuole/argon-per-la-materia-oscura.html>)

### **26 OCTOBER, 10:00 a.m. - 11:00 a.m., DISCOVERING VIRGO**

Information and reservations (<https://www.festivalscienza.it/site/home/programma-2022/eventi-online-per-le-scuole/alla-scoperta-di-virgo.html>)

### **26 OCTOBER, 11:00 a.m. - 12:00 p.m., IN THE HEART OF THE MOUNTAIN**

Information and reservations (<https://www.festivalscienza.it/site/home/programma-2022/eventi-online-per-le-scuole/nel-cuore-della-montagna.html>)

## **BERGAMOSCIENZA FESTIVAL, Bergamo (<https://collisioni.infn.it/evento/infn-a-bergamoscienza-2022/>)**

**FROM 10 TO 14 OCTOBER, 9:00 a.m. - 12:30 p.m., Spazio Viterbi, Bergamo**

### **DISCOVERING COSMIC RAYS**

Workshop for schools by INFN and the OCRA (Outreach Cosmic Ray Activities) project.

Information and booking (<https://festival.bergamoscienza.it/it/calendario/73156/alla-scoperta-dei-raggi-cosmici?datainizio=26/09/2022&datafine=16/10/2022&target=&disponibilita=False>)

## **QUANTUM FESTIVAL, Gardone Val Trompia (BS) (<https://collisioni.infn.it/evento/lifn-a-quantum-2022-a-gardone-val-trompia/>)**

**17, 18 AND 19 OCTOBER, from 8:30 a.m. to 4:00 p.m. for schools, from 4:00 p.m. to 6.30 p.m. for the public**

### **HEPSCAPE: THE PARTICLE PHYSICS ESCAPE ROOM**

**by INFN, Padova and Milan Bicocca Divisions**

An exploratory game to learn about CERN and experience the excitement of the discovery of the Higgs boson.

**17, 18 AND 19 OCTOBER, from 8:30 a.m. to 4:00 p.m. for schools, from 4:00 p.m. to 6.30 p.m. for the public**

### **FROM MARBLES TO DISCOVERING THE STRUCTURE OF THE ATOM**

**by INFN, Padova and Milan Bicocca Divisions**

Experimenting with the collisions between marbles: this workshop will show how particle physics experiments work.

**18 AND 19 OCTOBER, from 8:30 a.m. to 4:00 p.m. for schools, from 4:00 p.m. to 6.30 p.m. for the public**

### **LET'S RENEW ENERGY: A SEA JOURNEY TO DISCOVER ENERGY PHYSICS**

**by INFN Legnaro National Laboratories and INFN Kids project**

Between animated videos and experiments, a workshop to discover the physics hidden behind energy.

All events will take place at Villa Mutti Bernardelli

Information and booking (<https://www.quantumgvt.it/>)

**18 OCTOBER from 10:00 – 11:15 a.m., online on Quantum channels**

**WHAT NEXT?**

**by INFN**

A dialogue with students about the profession of physics, starting with the short film "Out of the Cave", created by the INFN "What Next? Young people telling future" project.