

# Newsletter TAKE PART IN

## THE WONDERS OF PHYSICS IN BOLOGNA FOR ICHEP 2022



From 7 to 16 of July “The Wonders of Physics in Bologna (<https://www.ichep2022.it/meraviglie-fisica-eng/>)” will take place in Bologna. This is a **program of outreach events, dedicated to physics**, to engage children and adults in the wonders of research and scientific culture. The event is organized for the **41<sup>st</sup> International Conference on High Energy Physics (ICHEP)** (<https://www.ichep2022.it/>), hosted for the first time

in Italy, in Bologna, on 6-13 July.

The events will deal with science, philosophy and literature, and there will also be art and science exhibitions, installations and theatre performances. And in the heart of the city, Piazza Maggiore will host “**A step away from the Big Bang. The new physics after the Higgs boson**”, a conference show, led by Serena Dandini, where the future of physics will be told by the protagonists of one of the most important discoveries of the century, the discovery of the Higgs boson, whose 10<sup>th</sup> anniversary is being celebrated this year. Find out more.

### **7-10 JULY, 6 to 9 PM, HEPSCAPE ROOM**

**Academy of Sciences Institute of Bologna, Via Zamboni 31**

HEPscape Room is an escape room on high energy physics designed to simulate a visit at the CERN's Large Hadron Collider.

### **9 JULY, 9 PM, THE HIDDEN FORCE**

**Open Air Theatre c/o The Bernstein School of Music theater (BSMT), Via Paolo Nanni costa 12/6**

The show tells the story, lives, and discoveries of four female scientists: Chien-Shiung Wu, Vera Cooper Rubin, Marietta Blau, Milla Baldo Ceolin.

### **9-16 JULY, 9 AM to 7:30 PM, COLLISIONS**

**Piazza Coperta di Sala Borsa, Piazza del Nettuno 3**

What happens inside a particle detector? An interactive multimedia installation set up to mark 10 years since the discovery of the Higgs Boson.

### **10-16 JULY , 9 AM to 7:30 PM, COLORS AND IMAGES OF SCIENCE**

**Enzo Biagi Auditorium, Sala Borsa, Piazza del Nettuno 3**

The exhibition will display the 70 works, created by more than 200 students, who won the local selections of

the 3<sup>rd</sup> edition of the Art&Science Across Italy project. The exhibition will feature video installations and works by Enrico Magnani - Light in the Dark. Find out more.

### **11 JULY, 6 to 7:30 PM, COSMOLOGY: SCIENCE, ART AND PHILOSOPHY IN DIALOGUE**

**Piazza Coperta di Sala Borsa, Piazza del Nettuno 3**

Dialogue on visions of our universe from the perspectives of contemporary astrophysics, philosophy, and art, with presentation of the book "Advances in Cosmology."

### **12 JULY, 5:30 PM-6:30 PM, ASIMOV AWARD**

**Piazza Coperta di Sala Borsa, Piazza del Nettuno 3**

Roundtable discussion with the winning authors of the Asimov Prize for the best work of popular science and with the students who wrote the best reviews.

### **12 JULY, 6:30 PM-7:30 PM, AWARD CEREMONY OF THE COMPETITION "10 YEARS SINCE THE DISCOVERY OF THE HIGGS BOSON"**

**Piazza Coperta di Sala Borsa, Piazza del Nettuno 3**

Award ceremony for the best popular videos presented for the competition dedicated to university students and organized by ATLAS Italia and CMS Italia on the occasion of the 10<sup>th</sup> anniversary of the discovery of the Higgs Boson.

### **12 JULY, 9:30 PM, ONE STEP AWAY FROM THE BIG BANG. THE NEW PHYSICS AFTER THE HIGGS BOSON**

**Piazza Maggiore**

Conference show with **Fabiola Gianotti**, CERN Director General; **Gian Francesco Giudice**, Director of CERN's Theory Division; **Guido Tonelli**, INFN researcher and Professor at the University of Pisa; **Antonio Zoccoli**, INFN President, Professor at the University of Bologna. Moderated by **Serena Dandini**, with the participation of the band **La Banda dell'Uku**.

## **HIGGS10: CELEBRATIONS OPEN**

To celebrate 10 years from the announcement of the discovery of the Higgs boson, the INFN community is taking part in the celebrations with several events, collected on a dedicated website (<https://higgs10.infn.it>). On July 4, INFN social media pages published a video with the memories of the discovery told by INFN researchers who took part in it, while on July 5, CERN's event dedicated to the new LHC collisions was broadcasted on INFN YouTube channel (<https://www.youtube.com/watch?v=Cl-yjOTJPPw&t=2519s>). To mark the 10-year anniversary, the first episode of the podcast "Traces. Lexicon of a Discovery" (<https://www.spreaker.com/show/tracce-lessico-delle-particelle>) was published. The podcast, starting with everyday words that are also present in the language of physics, will recount the discovery of the Higgs boson in a series of episodes released over the summer. The celebrations will continue until the end of 2022 with other events and initiatives: find out more on [higgs10.infn.it](https://higgs10.infn.it) (<https://higgs10.infn.it>).

## **THE INFN AT GALASSICA - FESTIVAL OF ASTRONOMY**

## **8-10 JULY, Malcavalca Castle, Esanatoglia (MC)**

### **8 JULY, 4 to 6 PM, HUNTING FOR COSMIC MUONS**

Course for teachers, organized by INFN – Communications Office and INFN OCRA - Outreach Cosmic Ray Activity. Info and reservations (<https://www.eventbrite.it/e/biglietti-corso-per-insegnanti-a-caccia-di-muoni-cosmici-368081881817>).

### **10 JULY, 10 AM to 5 PM, DISCOVERING COSMIC RAYS.**

Workshop for girls and boys aged 11 to 13 by INFN – Communication Office and INFN OCRA - Outreach Cosmic Ray Activities. Info and reservations. (<https://www.eventbrite.it/e/biglietti-laboratorio-alla-scoperta-dei-raggi-cosmici-354581130707>)