

Dear Reader,

This Newsletter is intended for all SPS members, researchers, industries, students, interested specialists and physics friends. Feel free to share this Newsletter within your community, and follow this [link](#) if you want to add a person to our mailing list.

If you wish to give your contribution with news or suggestions, please do not hesitate to contact me at: [margherita.boselli@cern.ch](mailto:margherita.boselli@cern.ch)

Kind regards,

*Margherita Boselli*

---

## WHAT'S UP IN SWITZERLAND?

---

### Physics in Advent 2022 is about to start

**Physics in Advent** is a special and unique Advent calendar, where young researchers, school classes and anyone interested can try out 24 physics puzzles and experiments at home or in the classroom. Each day between December 1 and December 24 a video clip of an experiment is published. The participants can answer the questions on the website and watch a video of the solution the day after.



Prizes can be won by pupils between the ages 11 to 18 years from all over the world, individually, as school classes or even as whole schools. Swiss pupils are encouraged to take part because the Swiss Physical Society gives out prizes in its own Swiss national drawing. The Swiss prizes are sponsored by the Swiss Physical Society, the Swiss Academy of Sciences and [Supermagnete.ch](http://Supermagnete.ch). Don't hesitate to share the news and [register](#).

---

### Scientastic, the EPFL Science Festival

The new edition of the [EPFL Scientastic Festival](#) will take place on **November 19 and 20, 2022, at the EPFL campus, in Lausanne**. Don't miss the opportunity to discover the Scientastic activities all devoted to the topic of light.



Visitors will participate in scientific workshops, live science shows, they will visit an interactive exhibition, listen to conferences, and visit laboratories. It is a unique occasion to discover, explore, and learn about science and technology and their impact on the everyday life. Finally, the public will meet EPFL scientists and researchers.

---

### 2022 Wright Colloque at the University of Geneva

---

The **2022 Wright Colloque**, now at its 20th edition, will take place at Uni Dufour in Geneva, every day between **November 7 and November 11 at 18h30**.

This year, the conference is inspired by the five elements considered as the fundamental components of our planet in the Ancient

Greece culture: fire, air, earth, water and..life. These five entities are used as a starting point to offer an original and kaleidoscopic look at our planet, Earth. Each of the elements is part of the structure of our environment. Each one is familiar and yet each one conceals a richness that the science of the last few years allows us to better understand. All are deeply interconnected. The understanding of the nature of these elements is essential to understand our environment, to allow us to better evaluate the human action on the planet and therefore to better preserve it.



---

## "La physique fait son show!" at the University of Geneva

On **Saturday October 1**, physicists from the University of Geneva **talked to the public** about their research on a unique occasion: the official re-opening of the "Ancienne École de Médecine". The historic building, constructed about 150 years ago to house the Faculty of Medicine, was recently renewed and extended. It now houses several physics groups of the [Faculty of Science](#).



During this full-day event, the researchers of the [physics department](#) opened the doors of their laboratories and offered activities to showcase their pursuits. More than 1500 visitors of all ages learned about the physics of lasers and its application, quantum physics and quantum information, they heard about the fascinating properties of graphene, they played with the elementary particles, and they learned how they are searched for at the CERN LHC experiments. Finally, they were guided through a platform of advanced equipment put in the service of research and industry. Special guests were the kids, who searched for clues in a treasure hunt through the building and participated in physics shows. The researchers and students who made this event possible had one common characteristic: the passion for physics. "[La physique a fait son show](#)", and it was a fascinating one!

*Image: The particle physics activities, with games and shows for everyone. Credits UNIGE.*

---

## EPFL professor Jean-Philippe Ansermet receives the Best Teaching Award

On June 3 2022 **Prof. Jean-Philippe Ansermet** gave his last thermodynamic class at EPFL in a hall packed with present and former students who made the trip to applaud the beloved teacher's last lecture before retirement.



Jean-Philippe Ansermet taught at EPFL for more than thirty year with passion and enthusiasm. He used new approaches to continuously update his lectures, he valued the students feedback and implemented their suggestions, he played a key role in the construction of the 800 physics experiments included in the EPFL collection and he has been involved in the International Physicists' Tournament for the past nine years.

All this and much more led him to win the [2022 Credit Suisse Best Teaching Award](#).

*Image: Professor Jean-Philippe Ansermet. Credits EPFL.*

---

## 2022 Rudolf Clausius Symposium and Young Talent Day

The **Rudolf Clausius Symposium** and the **2022 edition of the Young Talent Day** took place at EPFL Lausanne on October 8. All the presentation that have been given during the event are available [here](#).

---

# WHAT'S UP IN THE WORLD?

---

## International Cosmic Day 2022

The 11th edition of the **International Cosmic Day (ICD)** will take place on **November 22**. It is an international event organized by [DESY](#) in collaboration with [IPPOG](#) and many other [national networks and partners](#). ICD is an international event dedicated to cosmic rays, which constantly surround us but always go unnoticed.

On this day, students, teachers and scientists around the world will come together to talk and learn about cosmic rays. Questions that can be discussed are: What are cosmic particles? Where do they come from? How can they be measured and what can we learn from them?

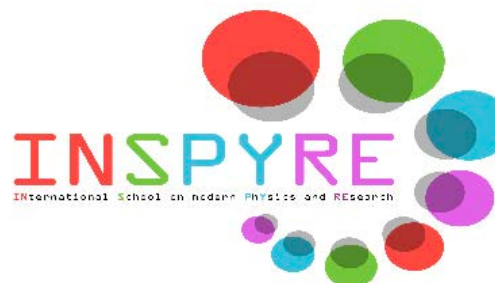


More information are available [here](#).

---

## INSPYRE

The **International School on Modern PhYsics and Research, INSPYRE**, is one of the major and most prestigious events of the Educational program of [INFN Frascati National Laboratory](#). The School is aimed at High School students attending the last two years, from all over the world, and introduces students to the hot topics of Modern Physics.



The **2023 edition** of INSPYRE - From quarks to Black Holes: let's get INSPYRED! - will take place from **March 27<sup>th</sup> to 31<sup>st</sup>** at **INFN Frascati National Laboratory**. The School will be held in English and students will have the chance to directly interact with our researchers. Students and teachers are invited to join the INSPYRE 2023! High schools willing to take part should apply by filling this [FORM](#). The registration deadline is November 20 2022.

---

## Nobel Prize in Physics 2022

On October 4 2022 the [Royal Swedish Academy of Sciences](#) announced the [winners of the 2022 Nobel Prize in Physics](#). The prestigious prize has been awarded this year to: **Alain Aspect** (Institut d'Optique Graduate School – Université Paris- Saclay and École Polytechnique, Palaiseau, France), **John F. Clauser** (J.F.



Clauser & Assoc., Walnut Creek, CA, USA) and **Anton Zeilinger** (University of Vienna, Austria) for their groundbreaking experiments using entangled quantum states. The result of their research paved the way to our current understanding of quantum mechanics and to its application in the field of quantum information.

More information will follow on a dedicated article in preparation for the next edition of the [SPS Communications](#).

*Image: Alain Aspect, John F. Clauser and Anton Zeilinger, credits Niklas Elmehed - Nobel Prize Outreach.*

---

The Swiss Physical Society (SPS) unites persons interested in physics from university, schools, research, development and industry. The SPS promotes the scientific exchange of ideas in Switzerland and with its international environment.

[Unsubscribe](#) | [Manage profile](#) | [About](#)

[Subscribe as new user](#)