

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

Kind regards,

Margherita Boselli

WHAT'S UP IN SWITZERLAND?

Swiss high school students spent two weeks at CERN

A group of 24 high-school and early university students (16-20 years old) coming from different areas of Switzerland spent two weeks at CERN to take part in the "[High-School Students Internship Programme](#)" (HSSIP).



HSSIP is a programme developed by CERN to engage students from a young age with scientific research and innovation. This initiative, launched in 2017, is still in the pilot phase, and Switzerland is one of the CERN member states that takes part in it.

Between Sunday 17 October and Saturday 30 October, the Swiss students have been introduced to CERN, its technologies and physics, through a series of lectures, discussions, workshops and by shadowing, observing, and working with members of the personnel. During their stay, the participants, selected by a national committee headed by Katharina Müller and Hans-Peter Beck, have been accompanied by four mentors including high-school teachers and university students.

Image: group picture of the participants in HSSIP for Switzerland with their mentor and CERN supervisors. Photo from CERN.

Inauguration of the Sciencescope of the University of Geneva

On 5 October the University of Geneva inaugurated the new [Sciencescope](#), the science outreach center of the Faculty of Science that gathers together the [Astroscope](#), the [Bioscope](#), [BiOutils](#), the [Chimiscope](#), the [Infoscope](#), the [Mathscope](#), the [Physiscope](#) and the [Terrascope](#).



In a new dedicated area of the Science II building, researchers of the University of Geneva lead educational hands-on workshops aiming at bringing the general public, in particular younger people, closer to science and making them curious about scientific

research. The Scienscope welcomed the first school classes of the Geneva canton on 11 October.

Image: Christophe Renner, vice-Dean of the Faculty of Sciences of the University of Geneva, gives a speech during the opening Ceremony. Photo from Carla De Silva.

Edith Alice Müller Award 2021

[The Edith Alice Müller Award 2021](#) was attributed to Romain Allart for his thesis "Exoplanet Atmospheric Studies at High Spectral Resolution". Romain Allart obtained his PhD at the University of Geneva, and his research focused on the understanding of exoplanet atmospheres and their dynamics and composition, a crucial element to gain information on the formation, evolution and composition of exoplanets.



Portrait of Romain Allart, photo from SGAA.

UN World Data Forum in Bern

Between 3 and 6 October Bern hosted the [United Nations World Data Forum](#), a meeting that brings together data and statistical experts and users from different sectors to spur data innovation, mobilize high-level political and financial support for data, and build a pathway to better data for sustainable development.



[The 2021 edition](#) held for the first time in a hybrid format, it had a total of 7626 participants registered online, of whom 668 were present in Bern. The outcome of this event, presented in the "Bern Data Compact for the Decade of Action on the Sustainable Development Goals" at the closing session, calls on the international community and national governments to ensure that all communities work together in the data ecosystem to secure many aspects related to the [2030 Agenda](#) for sustainable development, a plan of action for people, planet and prosperity.

CHIPP PhD Winter School 2022

The [Swiss Institute for Particle Physics \(CHIPP\)](#) hosts an annual winter school based on the activities of the Swiss institutes involved in particle and astro-particle physics. The purpose of the school is to offer young physicists an opportunity to learn about recent advances in elementary-particle physics from local and world-leading researchers.

The registration for the 2022 edition are now open to both Swiss and international young physicists. PhD students are especially encouraged to attend. The 2022 CHIPP winter school of particle physics will be in Adelboden at the [The Cambrian Hotel](#). More information are available [here](#).

Saas Fee course 2022 in Astrophysics and Astronomy

The topic of the [51th Saas-Fee Advanced Cours](#) is "Compact-Object Astrophysics in the Era of Multi-Messenger Astronomy". It will be held from 24 to 28 January 2022 in Saas-Fee, in the Swiss Alp and is organized by the [Swiss Society for Astrophysics and Astronomy \(SSAA\)](#).

This course is primarily targeted at PhD and advanced M.Sc. students, but can also be valuable to young postdoctoral researchers who would like to start exploring the field. The "Saas-Fee Advanced Course" has taken place annually since 1971 and in 2022 it will be devoted to "Compact-Object Astrophysics in the Era of Multi-Messenger Astronomy".

WHAT'S UP IN EUROPE

EPL'S Highlights 2020

The 2020 Highlights of [EPL](#) have been recently [published](#). The articles included in this list have been selected by the



Editorial Board of EPL in view of their large impact on the international community, as measured by their high number of downloads or citations by January 2021, or by their high Altmetric attention score. Many of these Highlights were already labeled "Editor's Choice" by our Editors, or are "Perspective Papers", written upon invitation by an Editor.



WHAT'S UP IN THE WORLD

The Nobel Prize in Physics 2021

The [2021 Nobel Prize in Physics](#) was awarded on 5 October 2021 to three Physicists who gave outstanding contributions in the understanding of complex systems characterized by randomness and disorder.



One half of the prize was awarded jointly by Syukuro Manabe from Princeton University, USA, and Klaus Hasselmann, from the Max Planck Institute for Meteorology, Hamburg, Germany for "for the physical modeling of Earth's climate, quantifying variability and reliably predicting global warming".

The other half was awarded to Giorgio Parisi, from Sapienza University of Rome, Italy, for "for the discovery of the interplay of disorder and fluctuations in physical systems from atomic to planetary scales".

More information about the 2021 Nobel Prize in Physics will be provided in the next issue of the SPS Communications journal.

Illustration from Johan Jarnestad/The Royal Swedish Academy of Sciences.

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.

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