

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,

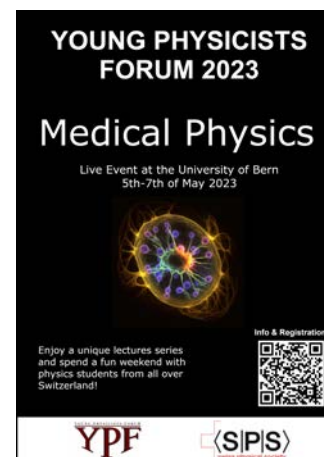
Margherita Boselli

WHAT'S UP IN SWITZERLAND?

Young Physicist Forum 2023

Be it Magnetic Resonance Imaging, CT scanning, proton therapy or the good old X-ray - there are countless ways in which physics has contributed to the advancement of modern medicine. For this reason, the [Young Physicists Forum 2023](#) will pay its respects to the fruitful role of **physics in medicine** and will illuminate the frontier of current research in medical physics.

The Young Physicists Forum 2023 will be hosted by the **University of Bern** during the weekend from **May 5 to 7**. It will offer a series of exciting lectures from experts in medical physics, as well as a plethora of social and fun events for the participating students to discuss, network and have an unforgettable physics-themed weekend. Bachelor's, Master's and PhD students are all welcome to join this annual event, in which students from all swiss universities come together to meet and celebrate their passion for physics. For more information and registration, visit the YPF's website or click [here](#).



57th National Competition of Science and Youth

Between **April 20 and April 22** the [Finals of the Science and Youth 57th National Competition](#) took place at the SQUARE of the University of St. Gallen. 126 high school students from all around Switzerland have been awarded for the quality of their research works.



The jury of experts who followed the students since the semi-finals in January evaluated their works. 30 students successfully concluded their project with the note "excellent", 62 with "very good" and 26 with "good". Prizes worth over 170000 CHF and [35 special prizes](#) were distributed to the participants. **The Swiss Physical Society contributed to the special prizes** with two invitations to the 2023 Young Talent Day.

Congratulations to the talented high-school students who took part in this initiative!

Image from Science and Youth.

Are we alone in the Universe?

With the discovery of many small temperate planets around the stars, several questions about the existence, the discovery, and the nature of extra-terrestrial life in the universe arise. [The Life in the Universe Centre \(LUC\)](#) of the University of Geneva brings together the knowledge of astronomers, chemists, physicists, biologists, geologists and climate experts to address these questions.



[Between from May 2 to May 31, 2023](#) visitors will be able to learn about these fascinating topics while walking along the Geneva Lake on Quai Wilson. Scientists from LUC, the Geneva Natural History Museum and the World Meteorological Organization prepared an **exhibition** on different research areas spanning from the largest structures in the universe to the bacteria living in the Geneva Lake.

A guided tour is scheduled on May 15 at 6 pm at the first poster on the side of the Bains de Paquis.

Lyndon Emsley remporte le prix Günther Laukien 2023

The [2023 Günther Laukien Prize](#) was awarded to [Professor Lyndon Emsley of Ecole Polytechnique Fédérale de Lausanne in Switzerland](#), and to **Professor Anne Lesage of Ecole Normale Supérieure de Lyon in France**. The Günther Laukien is the most prestigious prize in magnetic resonance research and it is awarded every year during the [Experimental Nuclear Magnetic Resonance Conference \(ENC\)](#) to recognize 'cutting-edge research with a high probability of enabling beneficial new applications.



The work of Lyndon Emsley contributed to the development of NMR techniques to study the dynamics of complex molecular systems and materials. Among other topics, Emsley has given remarkable contributions to the application of dynamic nuclear polarization (DNP) to problems related to material research.

Image: Lyndon Emsley of Ecole Professor at EPFL, from EPFL.

New video on Gender Equality in Academia published by SCNAT

SCNAT recently released an interesting [video](#) addressing the phenomenon of the "leaky pipeline", i.e. the decreasing proportion of women in apical positions in academia. The video is based on the webinar series ["Achieving Gender Equality and Diversity in the Natural Sciences"](#) by **SCNAT Platform Biology**, and it is a synthesis of the



9 webinars streamed between September and December 2021. During these events, experts from different domains, spanning from history to biology, shared their experiences and discussed about the reasons behind the loss of female talents in academia.

Apply now to organize a conference at the SwissMAP Research Station

The [SwissMAP Research Station \(SRS\)](#) is a Conference Centre based in Les Diablerets (VD) that organizes international topical conferences and targeted workshops in the fields of mathematics and theoretical physics. SRS is the result of a partnership between the



University of Geneva and ETH Zurich.

Scientific Program 2024

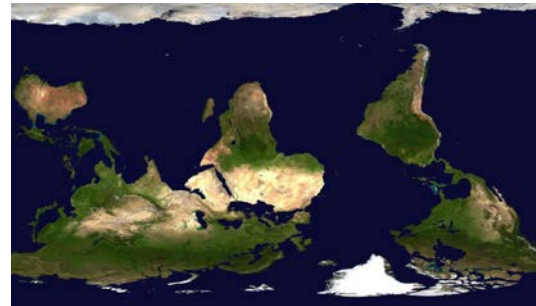
The 2024 Scientific Program is now available online and includes eight winter and eight summer events touching upon a wide range of topics in mathematical physics. Interested in organizing a conference at the SRS in 2025? [Applications are now open!](#) The deadline is September 30, 2023.



Annual conference decolonizing Swiss Collaborations

[The Commission for Research Partnerships with Developing Countries](#)

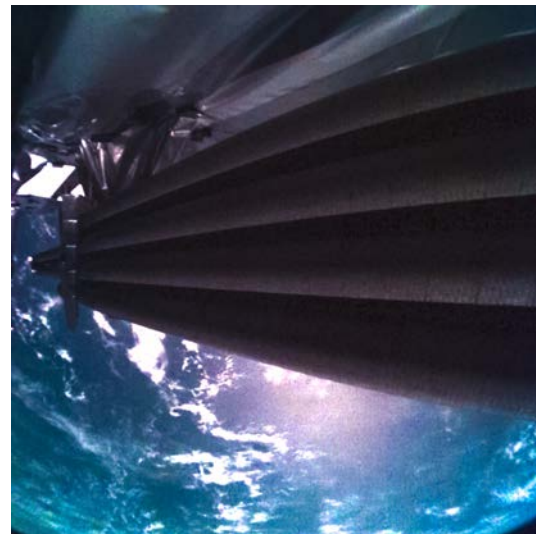
[\(KFPE\)](#) organizes its [annual conference](#) on **May 5, 2023, in Bern**. The aim of the conference is to bring together all the actors interested in the debate on decolonizing Swiss research collaborations. The programme is rich and diverse to provide different perspectives on the topic, to present various practical approaches and to stimulate the discussion among participants. The conference can be attended both in presence and online.



WHAT'S UP IN EUROPE

Juice on its way to Jupiter

On **April 14**, [the ESA mission Juice](#), Jupiter Icy Moons Explorer, was **launched** from the Europe's Spaceport in French Guiana. The space probe will observe in detail three of the many Jupiter's moons: Ganymede, Callisto and Europe. Juice will take approximately eight years to reach its target and its goal is characterizing these objects and the oceans that covers them.



Both the University of Bern and the Paul Scherrer Institute contributed to this mission. [The University of Bern](#) developed the NIM mass spectrometer and is involved in the fabrication of two other instruments: the SWI Sub-millimeter wave instrument and the GALA Laser Altimeter. [PSI developed the high-tech detector RADEM](#) that, among other things, will provide information about the complex radiation conditions of the Jupiter system.

Image: Juice leaving Earth, picture from ESA.

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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