

Dear Reader,

You scientists shape this newsletter.

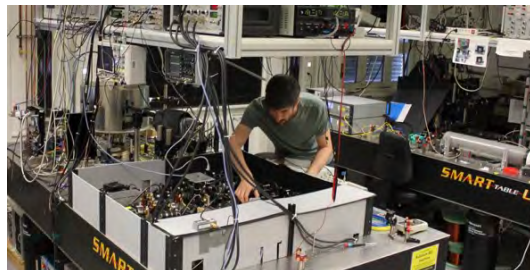
This newsletter is intended for all SPS members, researchers, industries, students, interested specialists and physics friends. Feel free to share this Newsletter within your community. If you would like to share some news with us, please contact Celine.Lichtensteiger@UniGe.ch.

WHAT'S UP IN SWITZERLAND?

Paradoxical Entanglements

Matteo Fadel receives the Prix Schläfli 2019 in Physics

The [Prix Schläfli](#) is awarded annually to the four best dissertations in the natural sciences since 1866. The Swiss Academy of Sciences (SCNAT) has awarded the Prix Schläfli in Physics this year to [Matteo Fadel](#), University of Basel, for being able to experimentally prove a quantum mechanical paradox in a multi particle system for the first time. The extraordinary complexity of the topic required Fadel not only to penetrate deeply into the theory of quantum physics, but also to develop and perform its sophisticated experimental verification. [\[more\]](#)



Picture: Matteo Fadel, Prix Schläfli 2019 in Physics (Image: Universität Basel)

Perspective Day on Space Science and Exploration

Celebrating the 50th anniversary of the moon landing - 28 June 2019, University of Bern

When the second man, [Buzz Aldrin](#), stepped out of the lunar module on **21 July 21 1969**, the first thing he did was to unfurl the Bernese solar wind sail and plant it into the ground on the moon - even before the American flag. This Solar Wind Composition experiment (SWC), which was planned and evaluated by Prof. Dr. [Johannes Geiss](#) from the Physics Institute of the University of Bern, was the first great highlight in the history of Bernese space exploration. Today, researchers from Bern are looking for signs of life in deep space, sending high-precision cameras to Mars and observing space debris. Plenty of reason for the city of Bern to take this **June** as an opportunity to celebrate space research and the first moon landing.

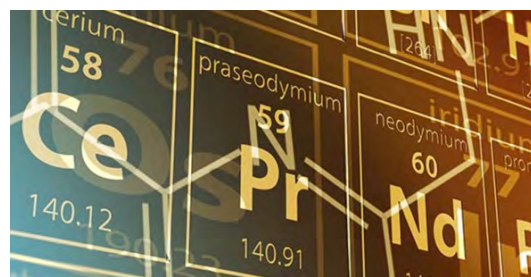


What are the major challenges we will face, and how can young scientists become actively involved in addressing them? The event is targeted at young scientists from Swiss universities as well as from other research institutions. It is also open to an interested public. The key focus of the event is on space exploration, science and the grand challenges of the future. Registration required. [more: [UniBE](#) (German); [SCNAT](#) (English)]

IYPT2019, 150 Years of the Periodic Table

Joint symposium of SPS and SCNAT - 30 August 2019, University of Zurich

The United Nations General Assembly and UNESCO proclaimed **2019** as the International Year of the Periodic Table of Chemical Elements, the IYPT2019, taking into account its 150th anniversary. The SPS and the Swiss Academy of Science SCNAT will celebrate this important milestone with a



special symposium on Friday, **30 August 2019** in Zurich at the closing event of the [SPS annual meeting](#). Under the title "*On the Origin of the Elements*", three overview talks will highlight the role of physics in the IYPT2019, covering historical remarks, Big Bang nucleosynthesis, and the creation of heavy elements in stellar explosions by renowned specialists in their respective fields. Each presentation will allow for enough time to answer questions from the audience. This symposium is free of charge and open to the public. The program is available online [here](#).

Picture: [IYPT2019.org](#)

Pour la Science / Jugend Forscht - Fascinating Informatics 2019

Study week for high school students 8-13 September 2019, Basel, Bern, Lugano, FHNW Brugg-Windisch

With the competent support of research experts, the participants can investigate and develop for six days various computer science projects. The projects offer a range of topics of high interest and a strong intersection also with the use of computer science in physics, from the programming of graphics cards through the development of GPS-supported activities to the programming of robots with artificial intelligence. The offer is supported by the Swiss section of Pour la Science / Jugend Forscht. Registration before **21 July 2019**. [\[more\]](#)



SCHWEIZER JUGEND FORSCHT
SCIENCE ET JEUNESSE
SCIENZA E GIOVENTÙ

"Decarb Science! But how?"

Feedback and documentations after the SCNAT's symposium on 24 May 2019

Following the lively debates at the event "*Decarb science! But how?*", here are some materials for those ready to take action. You can download the presentations ([here](#)), read an article by SCNAT (in EN, FR, GE) ([here](#)), in Le Temps ([here](#)), or a piece in the Echo der Zeit (and in the Wissenschaftsmagazin) ([here](#)) - and of course follow the tweets (search #DecarbScience) ([here](#)).



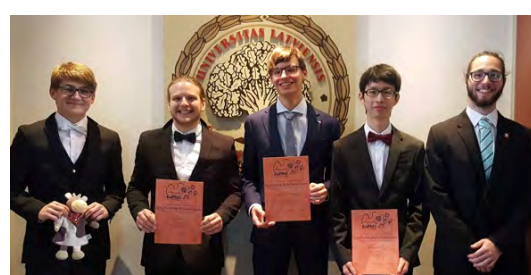
Picture: Carbon Footprint Science. Credit: Hansjakob Fehr, 1 kilo / Horizonte SNF

WHAT'S UP IN EUROPE?

2019 European Physics Olympiad

Congratulations to the five Swiss high school student who participated

150 young people from over 30 countries participated in the 2019 European Physics Olympiad in Riga, Latvia, from **31 May to 4 June 2019**. Among them were the five Swiss high school students who had been selected during the Swiss National Competition between 800 participants. After an



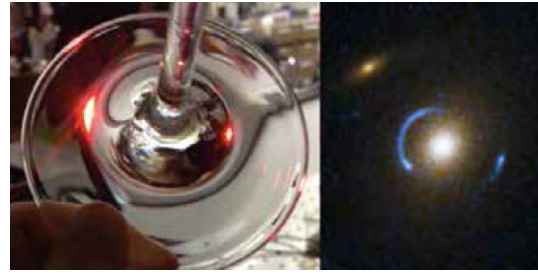
experimental and theoretical examination, three of them received an honorable mention. Find the press release and photos on the Science Olympiad website [[French](#), [German](#)].

Picture: Robin von Reding, Noah Roux, Ramón Buchenberger, Yanjun Zhou, Etienne Rösli. Credit: Adrian Rutschmann, Physics Olympiad.

Teaching Relativity

Education research on General Relativity

A [website](#) on teaching General Relativity is run at the university of Hildesheim, Germany. The main goal is to connect physics educators interested in the topic, mainly to make GR as important part of the modern physics world view accessible also on high school level. Well-made teaching materials (in several languages) are offered [here](#).



Picture: Wine glass experiment illustrating gravitational lenses. [[source](#)]

JOB FOR PHYSICISTS

Ultrafast Optics for Atmospheric Applications

Post-doc position from August 2019, University of Geneva

The Department of Applied Physics of the University of Geneva opens a Post-Doc position. The successful candidate will contribute to design, organize and participate in the field campaigns on atmospheric applications of ultrashort intense laser pulses, focusing on controlling lightning strikes ([Laser Lightning Rod project](#)) and on generating shockwaves to clear channels for optical communication through clouds. [[more](#)]



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](#)