

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

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## WHAT'S NEW IN SWITZERLAND

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### SPS Annual Meeting 2024

The [next SPS Annual Meeting](#) will take place from from 9 to 13 September 2024 at the Campus Centre of the ETH Zurich.



This year's meeting will open on Monday 9 September with the third edition of the session "**Physics Funding in Switzerland**". In the afternoon we will continue with the **General Assembly**, followed by a symposium in honour of **Louis de Broglie: 100 years of wave-particle duality**. After the symposium, **Anne l'Huillier** (Lund University, Sweden), Nobel Laureate 2023, will give a public lecture jointly organised by the SPS and the SSpH: **The route to attosecond pulses**.

On Tuesday 10 September, the third edition of the **Women in Physics Career Symposium** will take place. Finally, on Friday 13 September, the new **Energy and Sustainability** Section will hold its inaugural meeting.

[Registration](#) is open until **15 August 2024**.

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### Daniel Mazzone awarded with the 13<sup>th</sup> Erwin Félix Lewy Bertaut Prize

**Daniel Mazzone**, scientist at the PSI (Villingen) laboratory of [Neutron Scattering and Imaging \(LNS\)](#), [received the 13<sup>th</sup> Erwin Félix Lewy Bertaut Prize](#).

[This prize](#) is awarded by the European Crystallography Association (ECA) and the European Neutron Scattering Association (ENSA) in memory of Erwin Félix Lewy Bertaut a pioneer in the fields of crystallography and neutron scattering.



Laureates of the Bertaut prize are early career scientists (up to 8 years after the finishing their PhD), affiliated to ECA or ENSA, who gave important contributions to the experimental investigations of matter using crystallographic or neutron scattering techniques.

Dr. Mazzone has been awarded in recognition to his outstanding work on the study of quantum effects in strongly correlated electron materials using X-ray and neutron scattering techniques. His work shed new light on the properties of heavy fermion materials and correlated transition-metal oxides. His studies involved small magnetic moments at very low temperature and in high magnetic fields, using conducting neutron scattering under high-pressure in very small samples.

The press-released published by the PSI is available [here](#).

*Image: portait of Daniel Mazzone. Photo from PSI.*

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## Antoine Georges elected international member of the National Academy of Science

Professor **Antoine Georges** [has been elected as an International Member of the National Academy of Sciences \(NAS\)](#). This prestigious recognition is given to scientists who have achieved outstanding results in original research, and it's one of the highest honours that a scientist can achieve.



The official ceremony took place on 26 April 2024 during the annual meeting of the [NAS](#) in Washington DC.

Antoine Georges is a theoretical physicist who has made seminal contributions in several fields, including quantum many-body physics, materials with strong electronic correlations, ultracold atomic gases, and computational and statistical physics. He is professor at the Department of Quantum Matter Physics (DQMP) at the University of Geneva, at the Ecole Polytechnique, he holds the chair in condensed matter physics at the Collège de France, and he is the director of the [Center for Computational Physics at the Flatiron Institute](#), Simons Foundation, in New York.

This award is the latest in a [long list of honours](#) in Prof. Georges' career.

*Image: Portait of Antoine Georges. Photo from Paula Lukats.*

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## 2024 edition of the MAP young faculty meeting

[The MAP \(Mathematics, Astronomy and Physics Platform\) Young Faculty Meeting 2024](#) will take place on **6 September** at the Generationenhaus in Bern.



Participants will have the opportunity to network with colleagues, share experiences and good practices, and benefit from the presence of senior researchers. The event will focus on managing people and leadership.

Prospective participants can register **until 23 August 2024**. To be eligible to participate, researchers must be in a first-time leadership position in a research group at a Swiss higher education institute in the field of MAP.

*Image from SCNAT.*

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## Another great event to celebrate 70 years of CERN activity

On 19 May 2024, CERN hosted the fourth event to celebrate the [laboratory's 70th anniversary](#). The event, entitled "**CERN: an extraordinary human endeavour**" and organised in collaboration with the [CineGlobe Festival](#), was also the occasion to celebrate the 10th anniversary of the [CERN&Society](#).



## Foundation.



The event featured two panel discussions and a short documentary on the evolution of the World Wide Web. The speakers of the first panel, featuring leading scientists and experts in international collaboration and science communication, discussed the role of inclusive, open and collaborative science in advancing scientific knowledge. The second panel, featuring Sir Tim Berners-Lee, inventor of the World Wide Web and CTO and co-founder of Inrupt, focused on the evolution of the web, the democratisation of technology, and the role of AI. It was an exciting discussion where the speakers gave interesting and enriching opinions on these topics.

More information on the event is available [here](#). The [next public event](#) on the occasion of CERN's 70th anniversary will take place on 6 June 2024.

*Image: Sir Tim Berners-Lee during one of the panels of the event: "CERN: and extraordinary human endeavour". Photo by CERN/Marina Cavazza.*

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## Symposium celebrating the 25th anniversary of swissvacuum

For 25 years, [Swissvacuum](#) has brought together Swiss institutes and companies involved in the research, development and application of vacuum and low-pressure technologies.

To celebrate this anniversary, a **symposium** will be held on a wide range of vacuum-related topics.

The event will take place on **26 June 2024 from 14.00 to 18.00 at the Verkehrshaus Lucerne** and will be followed by a small reception. Participation is free, but registration is required. To register, please send an e-mail to [admin@swissvacuum.org](mailto:admin@swissvacuum.org) by June 15, 2024. The number of places is limited and the event will be in German.

25 Jahre **swissvacuum**

**Symposium**  
Verkehrshaus Luzern  
Saal 3, House of Energy  
26. Juni 2024

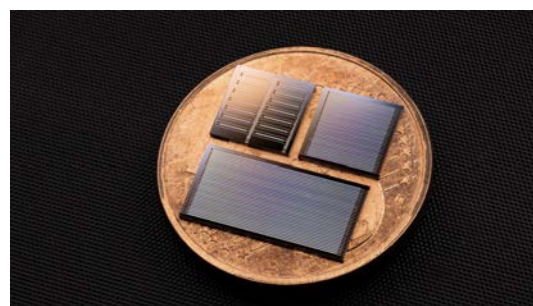
14:00 Eröffnung, swissvacuum-Präsident  
14:10 Vakuum in Alltagsprodukten  
14:50 Krebsbehandlung mit Protonentherapie  
15:30 Quantencomputer  
16:00 Mit Schweizer Technologie zu perfektem Vakuum - und zu Jobs und Wachstum  
17:20 Entdeckung LiTaO<sub>3</sub>  
18:00 Apéro

Platzzahl beschränkt auf 100 Personen  
Anmeldung erforderlich bis 15. Juni an [admin@swissvacuum.org](mailto:admin@swissvacuum.org) <https://www.swissvacuum.org/>

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## A new promising photonic integrated circuit developed at EPFL

Optics is currently leading the way in communications and computing. Despite their limitations, silicon-on-insulator optical transceiver chips are still the leading technology used in modern data centres. Fundamental research is working to find solutions that are sustainable and scalable at large scale.



**Lithium tantalate (LiTaO<sub>3</sub>)-on-wafer chips** are now one of the most promising alternatives to silicon. [A group of scientists from EPFL](#), led by Professor Kipperberg, and the **Shanghai Institute of Microsystem and Information Technology (SIMIT)** have developed a **new photonic integrated circuit** based on this material. The chip they have developed has very good performance and their work is promising for low-cost large-scale production.

The results of this work were published in [Nature on 8 May 2024](#).

*Image: photonic integrated circuits based on LiTaO<sub>3</sub>. Photo from EPFL.*

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