

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 UP IN SWITZERLAND?

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### Swiss TecDay in Spring 2022

The [TecDay](#) is an initiative started in 2007 by the Swiss Academy of Engineering Sciences (SATW) that aims to promote STEM disciplines in high-school.

For a day the students take part in interactive and practical workshops on technical sciences. Swiss science and technology outreach programs share their passion during a privileged moment of exchange with the students, who have the opportunity to discover new approaches and applications in many fields.



The first three TecDay(s) of 2022 took place in March at the [Alte Kantonsschule Aarau](#), at [Liceo cantonale di Bellinzona](#) and at [Collège Sismondi](#) in Geneva, where students could attend 51 different technical and scientific workshops.

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### The Berzelius Project – High-tech instruments in Science Education

The project «[Berzelius – In the high-tech lab of natural sciences](#)» is an interdisciplinary science education approach offering an outstanding, borrowable high-tech instrument park and dedicated theme-oriented [multimedia laboratory journals](#) (MLJs). A team of highly skilled science educators elaborates these MLJs using high-class videos, graphics and audios to get students hands on the [high-tech instruments](#) that are generally far beyond school reach.



The fusion of instruments and MLJs similarly aims at fueling students' sense of wonder and excitement, demonstrating straightforward scientific concepts and theories and at developing technological, data, media and knowledge literacy. By arousing students' ability to question scientific topics in big data context, «Berzelius» is an invaluable product

in progressive and modern science education. The project bridges the gap between school education and the high-technology instrumentation used in industry and universities.

More information are available [here](#).

*Image from Berzelius Project.*

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## Astronomy Roadmap

The Swiss Astronomy and Astrophysics Community prepared the [Astronomy Roadmap](#), a document that summarizes the view of the Swiss scientific community in the field of astronomy and astrophysics. This roadmap completes the [seven roadmaps elaborated by the Swiss Academy of Sciences \(SCNAT\)](#) on a mandate of the [State Secretariat for Education, Research and Innovation \(SERI\)](#). These community roadmaps serve as basis for the process leading to the [Swiss Roadmap for Research Infrastructures](#) 2023 for the SERI Dispatch 2025–2028.

The pdf version of the Astronomy Roadmap is available [here](#).



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## From Subfactors to Quantum Topology - In memory of Vaughan Jones

A [conference in memory of Vaughan Jones](#), eminent mathematician and Fields Medal winner in 1990, will take place at the University of Geneva from 27 June 2022 to 1 July 2022. Vaughan Jones was particularly attached to the University of Geneva where he had studied physics before obtaining his doctorate in mathematics in 1979, under the supervision of Prof. André Haefliger.

In addition to the talks, a classical music performance will take place on Monday 27th of June at 4:00 PM, with a string quartet composed of young soloists, all students of Daniel Haefliger, and a Mozart trio played by Jean-Claude Hausmann, Ian Jones (Vaughan's son) and Ian's fiancée Emily Nolan. If the weather allows it, a hike in the Salève "as Vaughan liked it" will also be planned on Wednesday 29th of June in the afternoon.

The registrations are open until **15 May 2022**.

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## The CERN LHC restarted

The CERN [Large Hadron Collider \(LHC\)](#) has [restarted](#) after a break of more than three years for maintenance, consolidation and upgrade work. On 22 April, at 12:16 CEST, two beams of protons circulated in opposite directions around the 27-kilometre ring at their injection energy of 450 GeV.



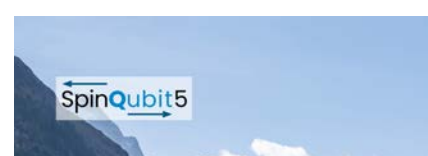
The energy of the particles in the LHC is far from being the maximum reachable by this machine, but the beams that circulated marked the end of the second long shutdown for the LHC and the beginning of preparations for four years of physics-data taking, which is expected to start this summer, with collisions to the experiments at a record energy of 13.6 TeV.

*Image of the LHC tunnel, from CERN.*

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## Conference on Spin-Based Quantum Information Processing

The [5th Conference on Spin-Based Quantum Information Processing \(Spin Qubit 5\)](#) brings together world-leading researchers from the fields of solid state physics and spin-based quantum information



processing. It is organized on the premises of the [Kongresszentrum in Pontresina](#), a beautiful location in the Swiss Alps. The conference will run over five full days (Monday-Friday), from 5 to 9 September 2022.

The registrations are open until 1 June 2022.



Registration deadline: June 1, 2022 [spinqubit5.nccr-spn.ch](http://spinqubit5.nccr-spn.ch)

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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