

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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### The Charpak-Ritz Prize 2023 awarded to Bruno Mansoulié

**Bruno Mansoulié** is awarded with the **2023 Charpak-Ritz Prize** for his contributions to high energy particle physics at hadron colliders in international particle physics collaborations, from the design and realization of the detectors to the physics analyses and his role in the ATLAS collaboration that has led to the discovery of the Higgs boson.



Charpak-Ritz Prize:  
Bruno Mansoulié



Bruno Mansoulié is an experimental physicist at Université Paris-Saclay, in the Particle Physics Department (CEA-IRFU-DPhP). He has worked on several generations of hadron collider experiments. This started at CERN in the 1980's with the UA2 experiment, with the discovery of the W and Z bosons. In the 1990's he joined the D0 experiment at Fermilab USA, with the discovery of the top quark. At the same time, he promoted the early LHC project at CERN, and he was involved in the design and construction of the ATLAS experiment. After LHC started, he participated in the search for the Higgs Boson, which was discovered in 2012 by the ATLAS and CMS experiments. He led a large group in the ATLAS collaboration that studied the properties of the new particle.

Bruno Mansoulié has also been actively involved in outreach activities, explaining the latest results from the ATLAS collaboration on Higgs physics to a wide and interested audience. He has also written books, such as "[All physics \(almost\) in 15 equations](#)", or "[Physics in Crisis: From Multiverses to Fake News](#)".

The [Société Française de Physique](#) (SFP) and the Swiss Physical Society (SPS) have created a joint prize in 2016, the **Charpak-Ritz Prize**, to strengthen the relationship between the two societies and to keep the memory alive of *Georges Charpak* and *Walther Ritz* who both have profoundly contributed to physics in their respective times.

Image: portrait of Bruno Mansoulié.

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### Vernissage of the 2023 SATW technology outlook

One of the key tasks assigned to the [Swiss Academy of Engineering Sciences \(SATW\)](#) by the Swiss Federation is the early



identification of new technologies relevant to the Swiss economy and society. This foresight of important technology trends is carried out by its scientific advisory board with the help of its thematic platforms and many external experts from a wide range of institutions. Every two years, SATW

## Technology Outlook by SATW

summarizes the results of this process in a **technology outlook**. SATW now invites the public to a first presentation of the **2023 edition**. The technology outlook vernissage will take place on Friday September 15, 2023, at 4 pm in the main building of ETH Zurich. Interested parties [can register](#) for this event free of charge.

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### MAP - Science open doors

The Platform **MAP of the Swiss Academy of Sciences (SCNAT)** aims to show how **women scientists** in the formerly male-dominated fields of mathematics, astronomy and physics (MAP) have successfully established themselves in Switzerland. Following a first portrait series of 12 women researchers published in 2021, a new series entitled **"Science open**



**doors" started**. This series profiles women scientists who have left the academic world and are now using their skills in a variety of jobs in the service of society. Discover the first portrait, that of **Emmanuelle Giacometti**, a physicist by training and director of the Espace des inventions in Lausanne.

*Image: portrait of Emmanuelle Giacometti, from MAP.*

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### MAP Young Faculty Meeting 2023

Following the success of the First edition, the **2nd Young Faculty Meeting of the Platform Mathematics, Astronomy and Physics (MAP)** will take place on Friday September 1, 2023 at the "Generationenhaus" next to the main station of Berne.



The prerequisite for participation is a first research group leading position (after postdoc) at a Swiss institution of higher education (university, ETH/EPF, ...) in the fields of MAP.

Perspective participants can register at [map@scnat.ch](mailto:map@scnat.ch) by August 11, 2023. Only name, surname and institution are required.

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### Cherenkov Telescope Array Observatory

Between **June 13 and 15, 2023**, the governance of the **Cherenkov Telescope Array Observatory (CTAO)** held an extraordinary **meeting in Geneva** with the aim of transforming this structure into a **European Consortium for Research Infrastructures (ERIC)** by the end of the year.



CTAO is a facility of ground-based instruments for gamma-ray astronomy at very high-energy, consisting of 64 telescopes located in the northern and southern hemispheres. The record sensitivity of these instruments will contribute understanding the role of relativistic particles in the cosmic systems evolution and exploring the most extreme phenomena in the Universe.

150 institutes from 25 countries takes part in this effort and the University of Geneva coordinates the Swiss participation. Together with UNIGE, also EPFL, the ETH Zurich and the University of Zurich are part of CTAO. This project is part of the Swiss roadmap for

research infrastructures of the State Secretariat for Education, Research and Innovation. More information about the swiss contribution to CTAO are available [here](#).

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## News from the *European Physical Journal* (EPJ)

In April 2023, representatives of national physics societies, **the European Physics Journal publishers and many of the journals' Chief Editors gathered at EMPA** (Swiss Federal Laboratories for Materials Science and Technology) near Zurich under the chairmanship of the Swiss Physical



Society to discuss all aspects of modern scientific publishing - ranging from individual journal development to improving support for early career researchers and the implementation of DEI principles at all levels.

In particular, the European Physics Society Young Minds' invited talk provided some excellent insights into what the next generation of scientists feels in terms of constraints and opportunities in this context. On the occasion of the [25<sup>th</sup> anniversary of the launch of the EPJ](#), young career researchers, organizing specifically meetings for their peers, are encouraged to [apply for sponsorship](#).

All the news from EPJ is available [here](#).

*Image: Participants of the joint meeting of the EPJ Scientific Advisory Committee, the Steering Committee and many EPJ Editors-in-Chief. Photo Credit: Maria Sutter.*

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## WHAT'S UP IN THE WORLD

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### Passion for Physics

To celebrate the 150<sup>th</sup> anniversary of the French Physics Society, a [comics titled \*Passion Physique\*](#) has been published. It tells about the extraordinary adventures of physics research through the stories of six scientists awarded by the FPS for their discoveries. This book targets a broad audience, starting from early teenagers (11-12 years old), and its goal is introducing the reader to the job of a scientist. An extract from the book is available [here](#).



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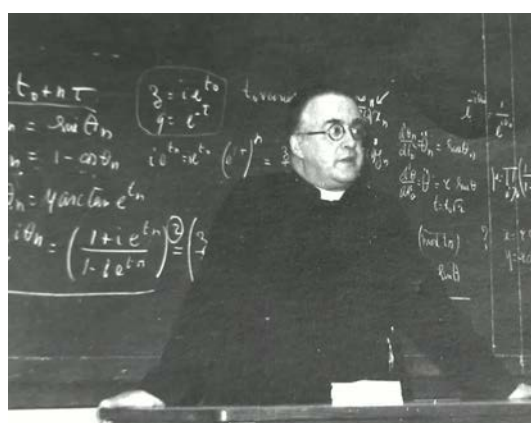
### McKinsey publication on women in science

**McKinsey published a [white paper](#)** on the societal and economic importance of strengthening the enrolment of women in STEM careers. The paper highlights, among others, the "drop-off" points of female presence in STEM careers, and the necessity of enhancing specific support for girls and young women for pursuing STEM careers, which they - even today - often get much less than boys.

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### An interesting interview of Georges Lemaître

The Belgian physicist and Catholic priest **Georges Lemaître** is considered the father of the Big Bang theory, he was the first to theorize that an expanding universe can explain the recession of nearby galaxies and today we speak of the Hubble-Lemaître constant. **A video of an interview** of Georges Lemaître recorded in 1964 was recently rediscovered and it is available [here](#).



In 2019, The Swiss Physical Society  
organized a [symposium](#) dedicated to Georges  
Lemaître.

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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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