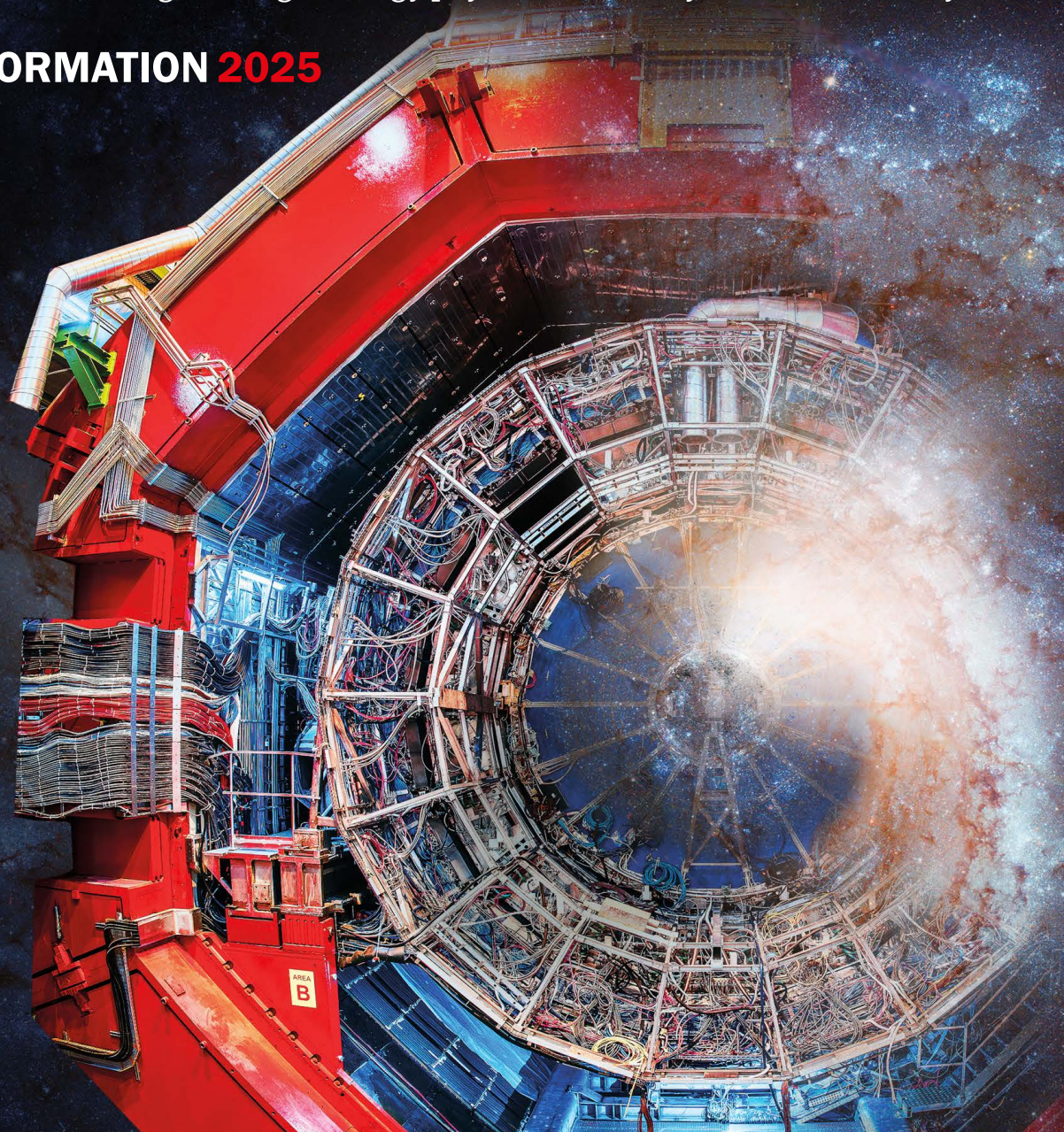


CERN COURIER

The unrivalled voice of the global high-energy physics community for more than 65 years

MEDIA INFORMATION 2025

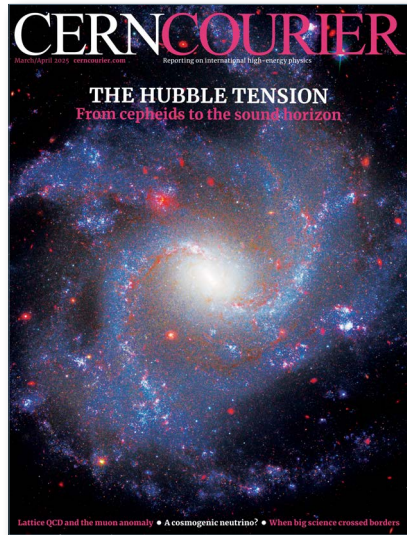


More than
1,000,000
visitors per year
to cerncourier.com

Read in more than
128
countries

More than
100,000
readers

The magazine



CERN Courier is a **bimonthly*** magazine dedicated to the global high-energy physics community. Engaging more than **100,000 readers worldwide**, the Courier delivers in-depth analysis, ground-breaking scientific discoveries and cutting-edge advancements, all while offering unique insights and inspiring perspectives from the leading experts in the field.

*Published six times a year, with issues: Jan/Feb; Mar/Apr; May/Jun; Jul/Aug; Sep/Oct; and Nov/Dec.

The website cerncourier.com



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Dynamic and highly qualified
50% are under 40
66% hold a PhD

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26% are lecturers or professors
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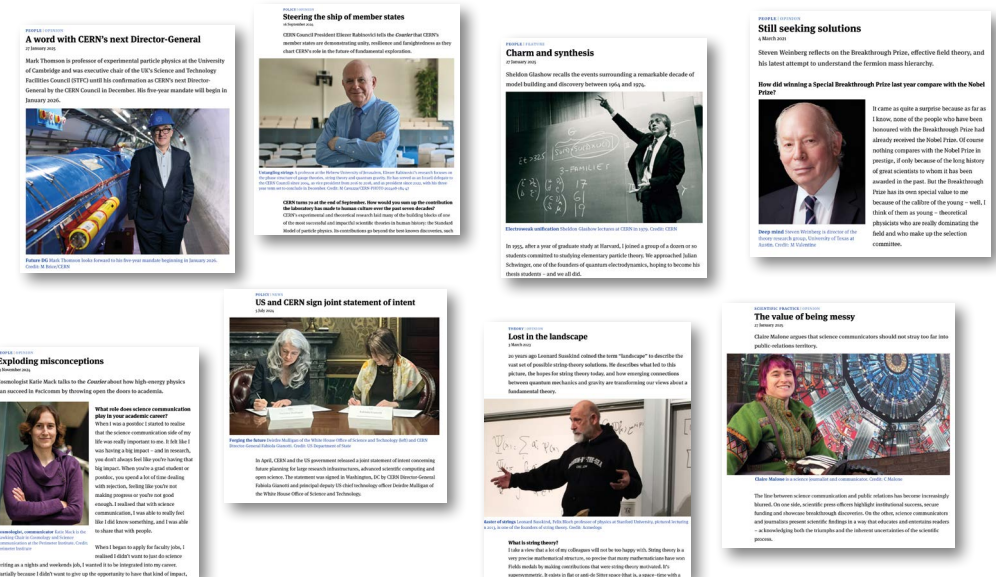


Our readers

Strong decision-making power
32% are decision-makers
35% directly influence purchasing decisions

Not just interested in physics
25% in engineering
22% in electronics
34% in computing, software and IT

The voice of leading scientists, engineers and policymakers



A word from the editor



“

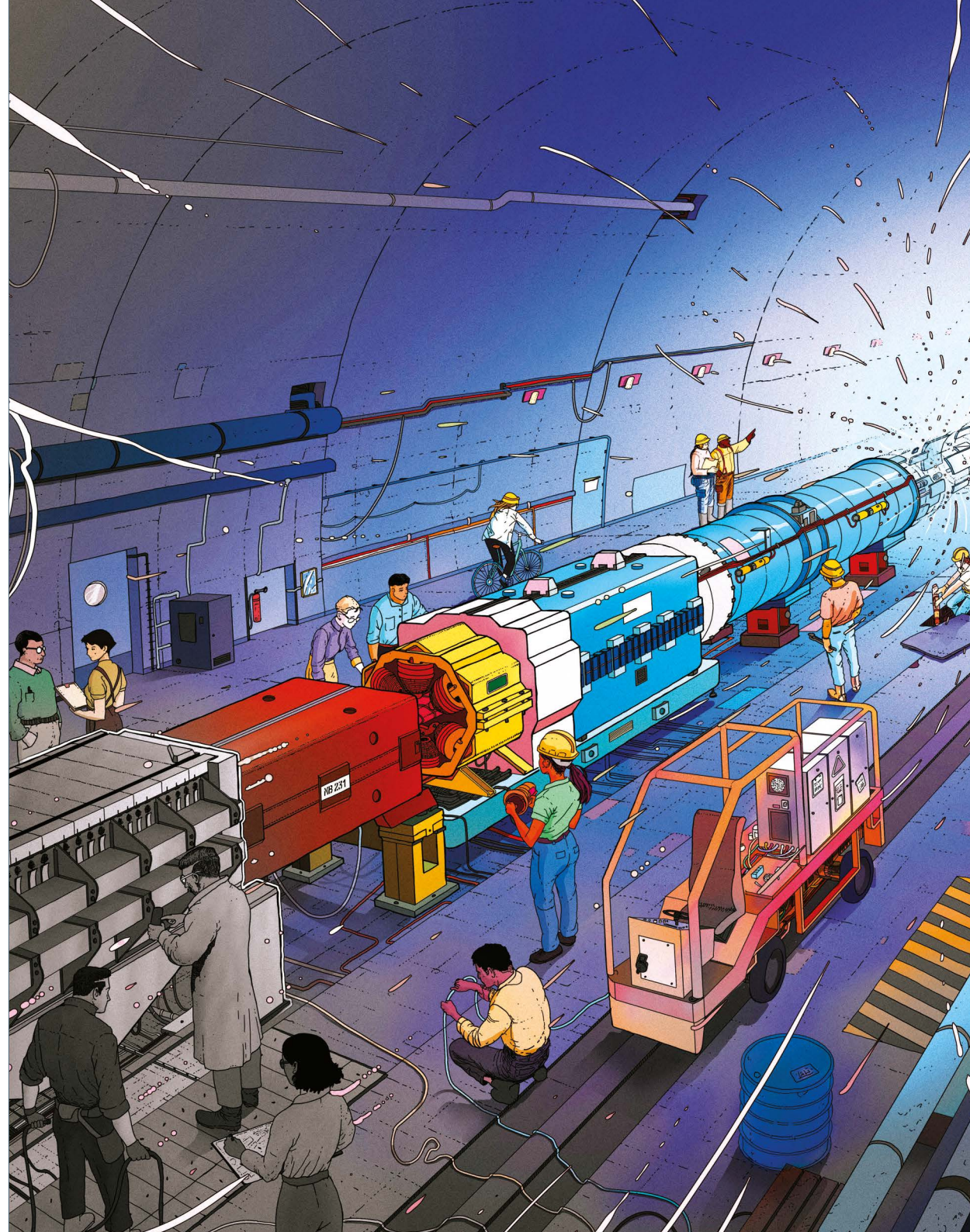
Welcome to the media pack for *CERN Courier* magazine.

Advertising by trusted industry leaders has been a proud part of *CERN Courier* since its first editions in 1959. Seven decades later, links between scientific research and industry are more important than ever, stimulating value chains and driving forward innovation.

The magazine is written by and for the world's leading physicists, engineers and policymakers. It is a unique expression of the community spirit of the most fundamental domain of science. The *Courier* covers the latest news and insights from across high-energy physics and adjacent fields – and there's never a shortage of great work to report on.

Advertising remains both a service to our readers and an essential financial support. By joining our community of industry partners, you further our mission to promote international collaboration in fundamental physics.

Mark Rayner Editor



1. Associate your brand with the excellence of CERN

70 years of global science, innovation and collaboration

Global collaboration

- 20+ member states and 10+ associate member states
- Scientists from 100+ countries
- More than 2500 permanent staff and 2700 non staff (graduate, fellow, student and hosted) plus 12,300 scientific associates

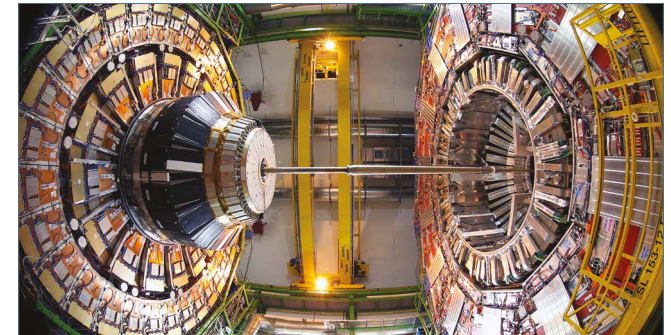
Hub of innovation

- From inventing the World Wide Web to discovering the Higgs boson

Global recognition

- An annual budget of 1.3 billion CHF and up to 500,000 visitors in 2024

Engaging political leaders, global industry pioneers and renowned scientists shaping the future



2. The voice of leading scientists, engineers and policymakers

The value of being messy

Claire Malone argues that science communicators should not stray too far into public-relations territory.



Claire Malone is a science journalist and communicator. Credit: C. Malone

The line between science communication and public relations has become increasingly blurred. On one side, scientific press officers highlight institutional success, secure funding and showcase breakthrough discoveries. On the other, science communicators and journalists present scientific findings in a way that educates and entertains readers – acknowledging both the triumphs and the inherent uncertainties of the scientific process.

Claire Malone
ATLAS physicist and
science journalist

Sabbatical in space

Project astronaut and CERN engineer Sławosz Uzmański points to the growing opportunities for high-energy physicists and engineers in space.



Sławosz Uzmański is a project astronaut and CERN engineer. Credit: P. Dierckx/CERN

Sławosz Uzmański had to hide his time. Since its foundation in 1975, the European Space Agency (ESA) had only opened four selection rounds for new astronauts. When a fresh opportunity arose in 2021, Uzmański's colleagues in CERN's elite power converters group were supportive of his ambitions to take an extended sabbatical in space. Now confirmed as one of 17 astronauts selected from among more than 22,000 applicants, Uzmański is in training for future missions to the International Space Station (ISS).

Project astronaut
and CERN engineer
Sławosz Uzmański

and synthesis

Sheldon Glashow recalls the events surrounding a remarkable decade of finding and discovery between 1964 and 1974.



Sheldon Glashow lectures at CERN in 1979. Credit: CERN

After a year of graduate study at Harvard, I joined a group of a dozen or so interested in studying elementary particle theory. We approached Julian Schwinger, one of the founders of quantum electrodynamics, hoping to become his

Sheldon Glashow
Nobel Prize laureate

it for the long haul

Katie Mack has conquered the oddest challenges in fundamental physics, says Nina Hammed. The case for building the next major collider is now more compelling than ever.



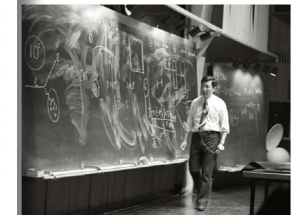
Katie Mack is a cosmologist and science communicator. Credit: CERN

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Hawking Chair in Cosmology
and Science Communication
at the Perimeter Institute **Katie Mack**

The new particles

Fifty years ago, the discovery of the J/ψ and its excitations sparked the November Revolution in particle physics, giving fresh experimental impetus to the theoretical ideas that would become the Standard Model. Here, we reproduce in full the *Courier*'s report from December 1974, describing the excitement and confusion that surrounded the new particles and their interpretation. The J/ψ is now known to be a bound state of a charm quark and a charm antiquark – entities for which there was only indirect evidence at the time of the discoveries.



US and CERN sign joint statement of intent

In April, CERN and the US government released a joint statement of intent concerning future planning for large research infrastructures, advanced scientific computing and open science. The statement was signed in Washington, DC by CERN Director-General Fabiola Gianotti and principal deputy US chief technology officer Tetradis Malligou of the White House Office of Science and Technology.



Fabiola Gianotti is CERN Director-General. Credit: CERN

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CERN's next
Director-General
Mark Thomson

steering the ship of member states

CERN Council President Eliezer Rabinovici tells the *Courier* that CERN's member states are demonstrating unity, resilience and forwardness as they chart CERN's role in the future of fundamental exploration.



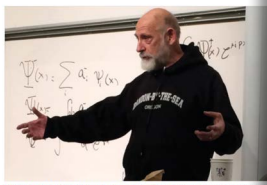
Eliezer Rabinovici is the outgoing president of the CERN Council. Credit: CERN

Eliezer Rabinovici is the outgoing president of the CERN Council. Credit: CERN

Eliezer Rabinovici
outgoing president of
the CERN Council

Lost in the landscape

20 years ago Leonard Susskind coined the term "landscape" to describe the vast sea of possible string-theory solutions. He describes what the picture, the hopes for string theory today, and how emerging connections between quantum mechanics and gravity are transforming our understanding of fundamental theory.



Leonard Susskind is a theoretical physicist. Credit: CERN

What is string theory?
I take a view that a lot of my colleagues will not be too happy with. String theory is a very precise mathematical structure, so precise that many mathematicians have been making contributions that were string-theory motivated

An obligation to engage

As the CERN & Society Foundation turns 10, founding Director-General Roberto Uehli argues that physicists have a duty to promote curiosity and evidence-based critical thinking.



Roberto Uehli is the founding Director-General of the CERN & Society Foundation. Credit: CERN

Science is for everyone, and everyone depends on science, so why not bring more of it to society? That was the idea behind the CERN & Society Foundation, established 10 years ago.

Dignitaries mark CERN's 70th anniversary

20 November 2024



Dignitaries mark CERN's 70th anniversary. Credit: CERN

On 1 October a high-level ceremony at CERN marked 70 years of science, international collaboration. In attendance were 38 national delegations, including eight heads of state or government and 17 ministers, along with many scientific, political and economic leaders who demonstrated strong support for CERN's mission and

Exploding misconceptions

Cosmologist Katie Mack talks to the *Courier* about how high-energy physics can succeed in its mission by throwing open the doors to academia.

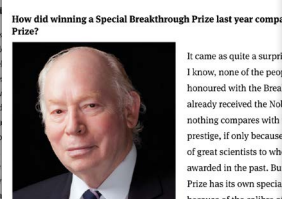


Katie Mack is a cosmologist and science communicator. Credit: CERN

When I began to apply for faculty jobs, I realised I didn't want to just do science writing as a nights and weekends job, I wanted it to be integrated into my career

Still seeking solutions

Steven Weinberg reflects on the Breakthrough Prize, effective in his latest attempt to understand the fermion mass hierarchy.



Steven Weinberg is a theoretical physicist. Credit: CERN

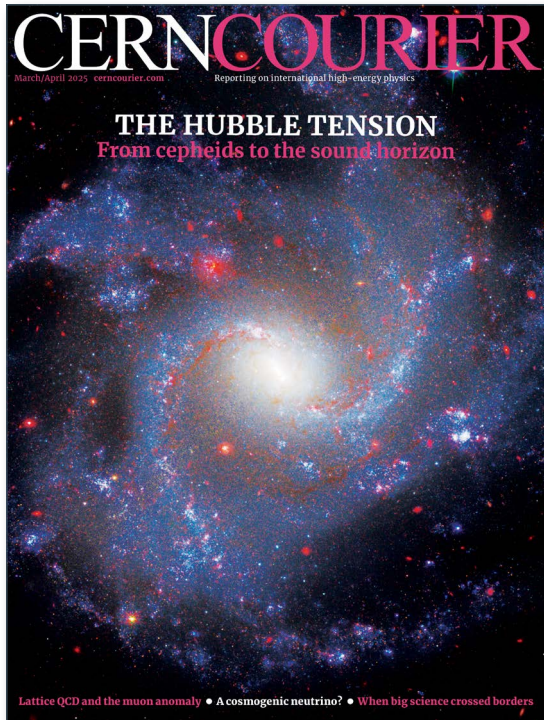
Deep mind Steven Weinberg is director of the theory research group, University of Texas at Austin. Credit: M. Valentino

A word with CERN's next Director-General

Mark Thomson is professor of experimental particle physics at the University of Cambridge and was executive chair of the UK's Science and Technology Facilities Council (STFC) until his confirmation as CERN's next Director-General by the CERN Council in December. His five-year mandate will begin in January 2026.

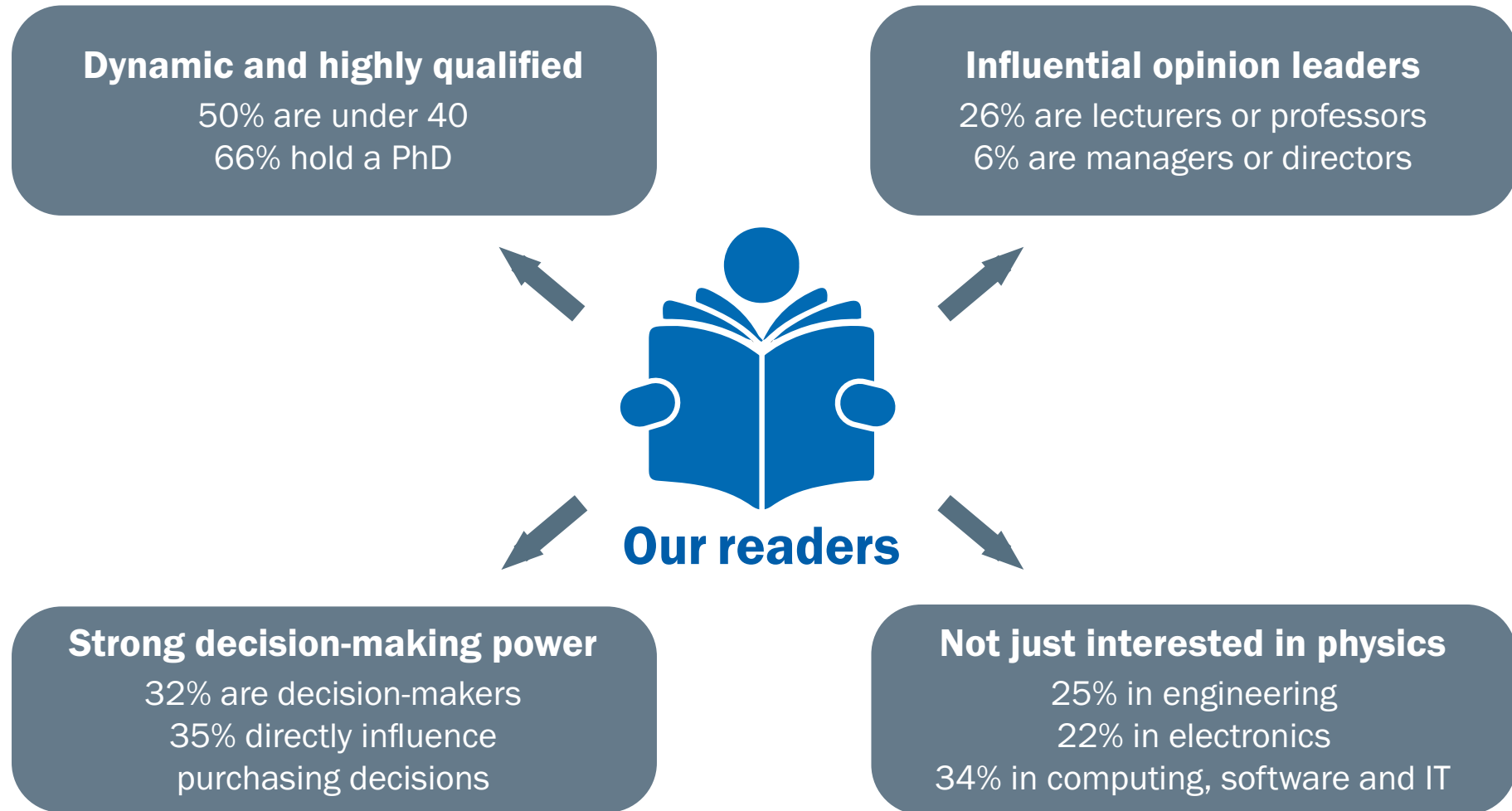


3. Distribution of the print magazine



- *CERN Courier* is sent to around **7000 institutional subscribers**, including **renowned accelerator laboratories** such as DESY and Fermilab, many **prestigious universities and institutes** such as NASA, Princeton, Harvard and Yale, and **key companies** like Siemens, Lockheed Martin and Intel, providing employees and decision-makers with access to all of the magazine content, along with full access to **cerncourier.com**.
- The magazine is distributed at key physics events throughout the year, including major conferences such as **EPS-HEP**, the leading high-energy physics conference, and **IPAC**, the premier accelerator-physics conference. Please **contact us** for a detailed and up-to-date list of all the events where *CERN Courier* will be available in 2025.

4. Our reach – your opportunity to influence



4. Our reach – your opportunity to influence

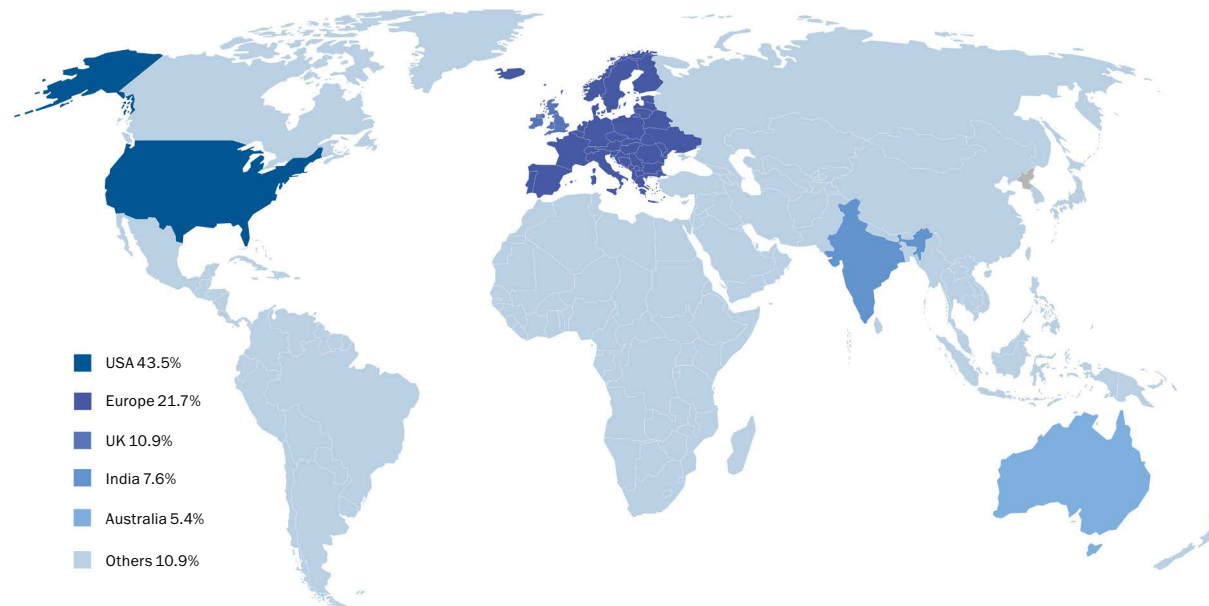
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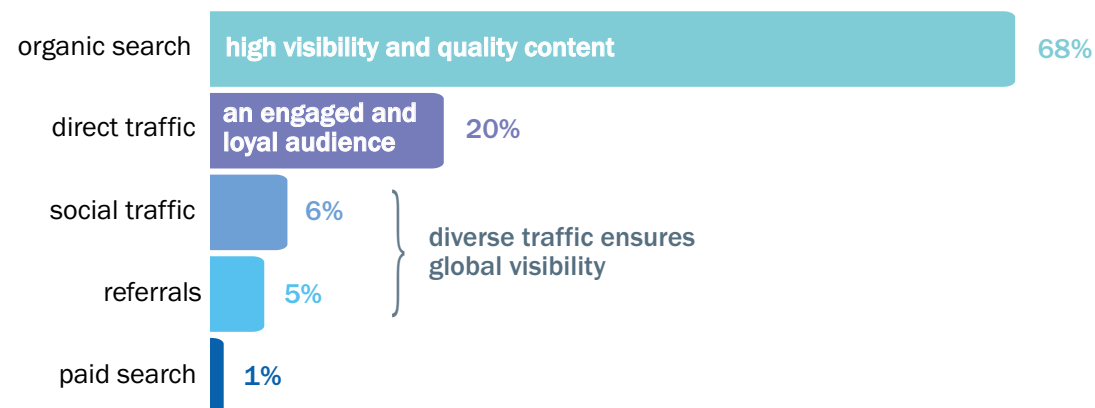
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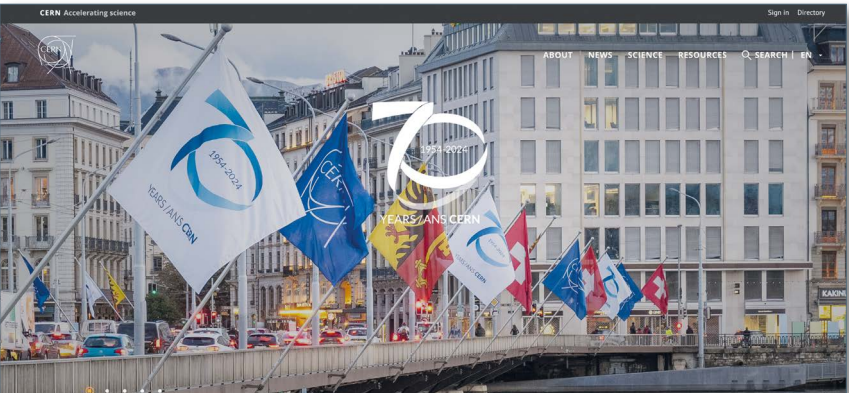


Share of total visits to cerncourier.com based on tracking from August to October 2024.

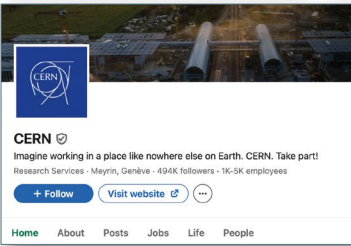
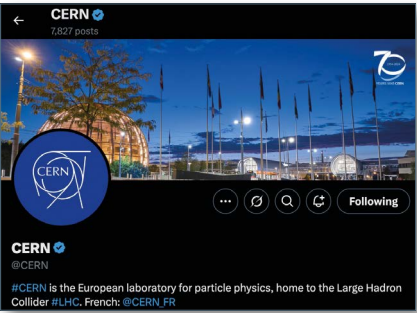
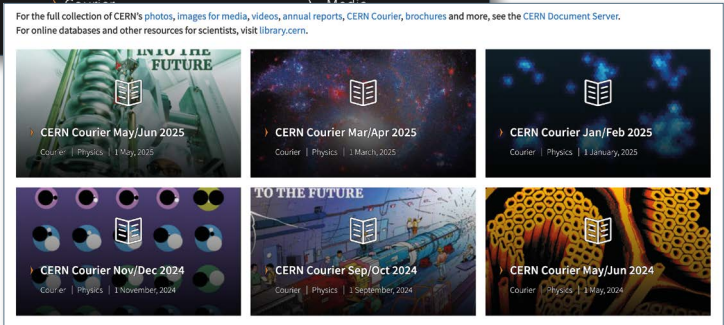
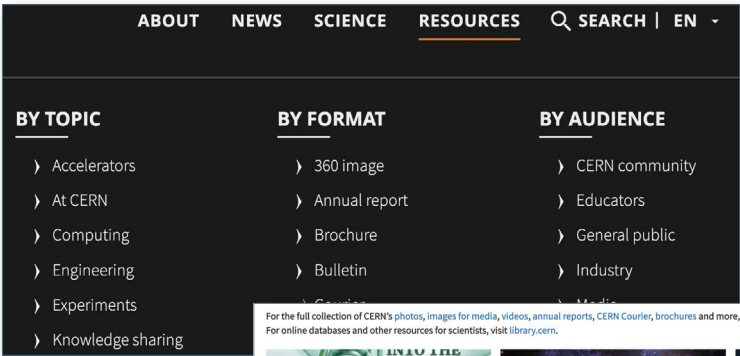


Source of web traffic on cerncourier.com from August to October 2024.

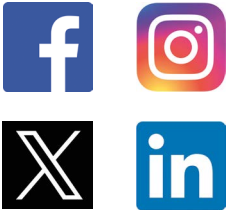
5. Maximising the Courier's reach through CERN's digital channels



Half a million visitors per month to the home.cern website



~5 million followers



More than 260k impressions per month on all CERN's social media

Engagement rate greater than 42k per month on all CERN's social media



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Boost your visibility in *CERN Courier*, our prestigious bimonthly* magazine, by booking a highly visible print advertisement.

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Advertorial

Tell a unique story to *CERN Courier* readers with an advertorial.

- You craft the message; we design the page and proofread for accuracy.
- Highlight your success stories, new products or attract top talent.
- Boost your impact with one of our complementary print ads.

Advertisement

What TOPS means for performance and power

Understanding AI performance metrics for Copilot+ PCs. Copilot+ PCs are here, and they're powered exclusively by Snapdragon X Series processors! That means more apps are executing AI model locally – rather than in the cloud – delivering better performance, accuracy and privacy benefits. Here's what you need to know about AI performance when reaching users with equipment to meet their needs.

What is a Copilot+ PC? In addition to CPUs and GPUs, Copilot+ PCs also have a neural processing unit (NPU). This specialised processor enables apps to run AI workloads on the device, unlocking new experiences while keeping your company data safe.

What is an NPU? An NPU is a specialised processor dedicated to handling AI workloads. Unlike traditional CPUs and GPUs, NPUs are uniquely designed to handle the complex mathematical computations required for AI tasks – offering unparalleled efficiency, performance and power savings. When AI workloads are run on the NPU, the CPU and GPU remain available to handle other tasks.

What is TOPS? TOPS, or trillions of operations per second, is the cornerstone performance metric for NPUs. It measures the number of operations (for example additions and multiplies) that can be executed within one second. Exploring the parameters of the TOPS equation, such as frequency and precision, can offer a deeper understanding of an NPU's capabilities.

Why does 40 TOPS matter? Workloads consume massive amounts of power when executed on the CPU or GPU, but NPUs are designed to efficiently handle AI inference. Naturally, AI operations will run faster on devices with higher TOPS values. That's especially true for concurrent app use, such as using Microsoft Copilot while video conferencing. In fact, some AI applications demand so much AI processing power that they may not work at all on devices with lower TOPS capacity.

Are 40 TOPS truly necessary? Yes, Microsoft requires Copilot+ PCs to have at least 40 TOPS of NPU processing capacity. To ensure the most power and efficiency, the Snapdragon X Series processors go even further, setting a new performance standard at 45 TOPS.

Hardware innovations with Dell AI PCs Dell's latest lineup of AI PCs, powered by Qualcomm's Snapdragon X Elite and X Plus processors, marks a significant advancement in personal computing. These devices integrate on-device AI capabilities, offering enhanced performance, extended battery life and improved user experiences.

Learn more about Dell Copilot+ PCs: www.dell.com/en-us/lp/copilotpc

Dell Technologies
Katerina Toulou
Client Solutions Marketing – EMEA
Katerina.Toulou@Dell.com
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Wallplanner

CERN COURIER | Reporting on international high-energy physics | 2025 YEAR PLANNER

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
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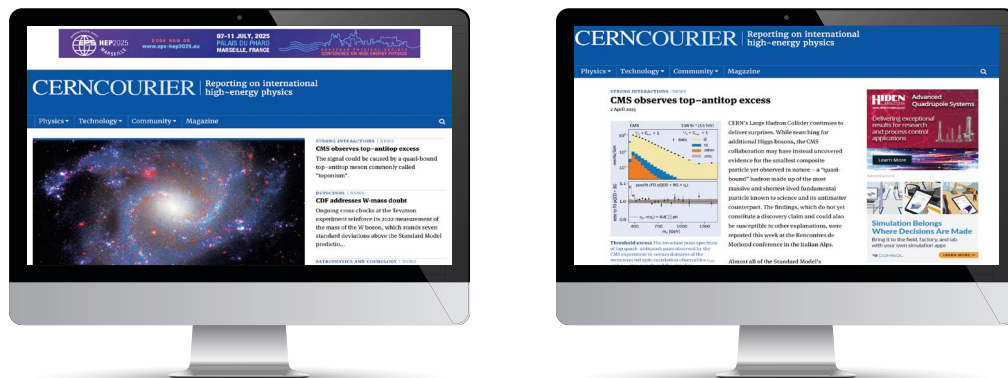
Agilent AFT MICRO WAVE HIDDEN XFA evac CPI Journal of Physics G PFEIFFER

Promote your brand with our exclusive wallplanner. Included with every November/December issue of *CERN Courier*, an advertising slot in our wallplanner provides:

- 12 months of exposure from a single campaign.
- Limited ad slots for maximum impact.
- Wider reach – wallplanners are commonly displayed in shared spaces, boosting visibility across diverse audiences.

Our online advertising options

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cerncourier.com welcomes more than **85,000 unique visitors every month**. It features articles from the magazine along with exclusive online content.

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
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Choose premium ad spaces, including above the page fold, within editorial content or alongside popular topics to ensure optimal visibility and engagement for your message.


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CERN COURIER | Reporting on international high-energy physics

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**CERN Courier – March/April 2025**
It's remarkable that the estimated age of the universe could be revised downward by over half a billion years – a possibility that now looms for cosmologists. For particle physicists, the implications of a couple of parts per billion on the predicted magnetic moment of the muon are no less dramatic. These are the stakes in this edition of CERN Courier, which sheds light on two of the most intriguing anomalies in fundamental science: the "Hubble tension" and "muon g-2".

Elsewhere in the magazine: Ugo Amaldi remembers his father Edoardo's foundational contributions to European cooperation in science; KMSNet smashes records for neutrino energy; CERN accelerates superconductor technology; CDF stands by the W-mass anomaly; the relationship between particle physics and art; upgrading triggers for the HL-LHC; how to get a job in computer-game design; and much more.

Mark Rayner editor, CERN Courier

[Read the March/April issue now →](#)

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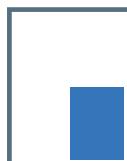
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Focus on advertorials

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An advertorial, or native content, is a full-page ad crafted in the editorial style of *CERN Courier*. It blends seamlessly with the magazine's content, offering an engaging way to reach our 100,000 readers.

- **Position** Full page integrated with editorial content.
- **Dimensions** 213 × 282 mm.

Why choose it?

- **Credibility** Present your message in a trusted editorial format.
- **Engagement** Attract more attention than traditional ads.
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What TOPS means for performance and power

Understanding AI performance metrics for Copilot+ PCs

Copilot+ PCs are here, and they're powered exclusively by Snapdragon® X Series processors! That means more apps are executing AI models locally – rather than in the cloud – delivering better performance, accuracy and privacy benefits. Here's what you need to know about AI performance when matching users with equipment to meet their needs.

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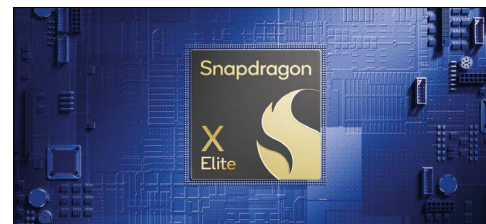
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Dell AI PCs

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- Learn more about Dell Copilot+ PCs: www.dell.com/en-us/lp/copilotpc

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Focus on digital banner spots

Homepage

The homepage features a top navigation bar with the CERN Courier logo and a menu. Below the navigation bar, there are several news articles and banners. A gold leaderboard banner is at the top, followed by a large article titled 'CMS observes top-antitop excess'. Below this, there are several smaller articles and a silver leaderboard banner. At the bottom, there is a bronze leaderboard banner and a section for 'MEETING REPORTS'.

Gold leaderboard banner
970 × 90 pixels (responsive)

Silver leaderboard banner
970 × 90 pixels (responsive)

Bronze leaderboard banner
970 × 90 pixels (responsive)

Other pages

The article page features a top navigation bar with the CERN Courier logo and a menu. Below the navigation bar, there is a large article titled 'CMS observes top-antitop excess'. To the right of the article, there are several banners and ads, including a 'Top level' banner, a 'Sticky' banner, and a 'Mid-page unit (MPU)' banner.

Top level
300 × 250 pixels

Sticky
300 × 250 pixels

Mid-page unit (MPU)
300 × 250 pixels

Focus on newsletter advertising

Be a sponsor of our new-issue alert, and get your message delivered to more than **12,000** engaged subscribers with every issue of *CERN Courier*.

Exclusive sponsorship

- Be the standout brand, with unrivaled visibility and premium placement.
- Includes three long banners (580 × 87 pixels), one small banner (120 × 72 pixels) and promoted content (40–50 words).

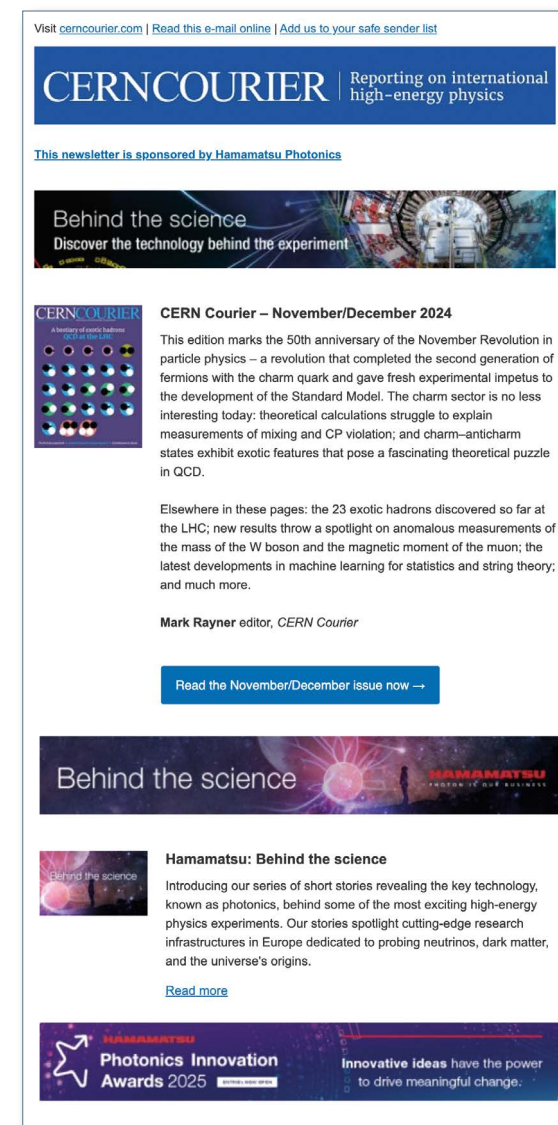
Multiple sponsorship

- Share visibility with industry leaders while maintaining a strong presence.
- Includes one long banner (580 × 87 pixels) per sponsor.
- Two sponsors maximum per newsletter.

Why choose it?

- **Targeted engagement** Reach a highly qualified audience of more than 12,000 engaged subscribers who actively follow *CERN Courier* updates.
- **Boost brand credibility** Align with *CERN Courier*'s trusted reputation.
- **Maximise impact** Ensure your message is seen by the right audience at the right time.

Perfect for reaching an engaged audience eager for fresh, relevant content!



Focus on digital advertorials

- **Craft your message** Share success stories, launch new products or attract top talent with your unique voice.
- **Perfect the details** Our team will proofread and polish your content for accuracy and clarity.
- **Maximise visibility** Gain year-round exposure by:
 - Featuring your content in the “Advertising features” section for **12 months**.
 - Showcasing it on the homepage under our specific section upon release.

Why choose it?

- **Credibility** Present your message in a trusted, editorial format.
- **Engagement** Attract more attention than traditional ads.
- **Relevance** Reach a highly focused and qualified scientific audience.

Perfect for product launches, success stories or establishing thought leadership


Limited spots available – Book now to make your mark!

ADVERTISING FEATURE

24 years of CERN and WinCC OA: the success story of a groundbreaking technological partnership

18 September 2024

The collaboration between CERN and WinCC Open Architecture (WinCC OA) exemplifies the power of strategic partnerships in achieving groundbreaking technological advancements.





This relationship, initiated in 2000, has not only endured but also set a benchmark for managing and evolving complex control systems.

Rigorous selection process
In the late 1990s, CERN undertook an extensive evaluation to choose a SCADA (supervisory control and data acquisition) system for its Large Hadron Collider (LHC) detectors. The process spanned two years and involved 10 person-years of testing and evaluation. Six products were rigorously assessed for functionality, performance, scalability and openness. WinCC OA emerged as the top choice, primarily due to its robust architecture and potential for future development, even though it did not fully meet CERN's requirements at the time.

Strategic partnership formation
Recognising the need for significant enhancements to WinCC OA, CERN sought more than just a transactional relationship. A symbiotic partnership was formed, focused on mutual growth and adaptation. This collaboration was crucial in ensuring the timely deployment of the LHC detectors in 2009. From the outset, both parties worked closely to evolve WinCC OA to meet the unique demands of the LHC.

Collaboration examples
The first contract for WinCC OA (then known as PVSS2) was signed in 1999, initiating work on scaling the product to meet CERN's unprecedented requirements. One key area of collaboration was the development of a new UI manager based on Qt, funded by CERN, ensuring compatibility across Linux and Windows while enhancing customisation options. This partnership was vital for the product's evolution.

"We congratulate CERN on 70 years of excellence in particle-physics research and are proud to partner with such an extraordinary organisation. This collaboration continually inspires us to maximise our capabilities and redefine technological boundaries," Bernhard Reichl, CEO ETM professional control, a Siemens Company.

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