

Newsletter (June 2026)

Greetings,

the GDR SCIPAC (<https://scipac.in2p3.fr/>) is pleased to send you its newsletter. To share information, you can contact scipac-contact-l@in2p3.fr. You can subscribe/unsubscribe from the mailing list via <https://indico.ijclab.in2p3.fr/event/10057/>.

*** TTC meeting (SRF), école Centrale Supélec, June 9-12**

CEA, CNRS, and the University of Paris-Saclay are organizing the next TTC (Tesla Technology Collaboration) meeting at Centrale Supélec from June 9 to 12. Held twice a year in a different laboratory, this event focuses on developments in radio-frequency superconductivity. The meeting includes four sessions: "Latest activities on high-G and high-Q performance," "Effective operation of aging machines for performance and reliability," "R&D for mass production and quality assurance for accelerator modules," and "R&D challenges for future advanced projects." Facility visits are planned (Supratech and the Vacuum&Surface platform at IJCLab, as well as the Synergium platform at CEA-IRFU).

Program and registration under <https://indico.ijclab.in2p3.fr/event/12364/>

*** « Photocathodes for Accelerator Science in Europe » (PhASE26) Workshop, September 21-23, IJCLab**

As part of the European Workshop on Photocathodes for Accelerator Applications (EWPA), the LPSC in Grenoble and IJCLab are organizing the next edition at IJCLab (Orsay) from September 21 to 23. This event, *Photocathodes for Accelerator Science in Europe* (PhASE26), will feature approximately forty oral presentations, a tutorial on photocathode physics, and a poster session covering topics related to photocathodes (applications, metal, semiconductor, polarized, theory, characterization techniques, etc.). A tour of the IJCLab facilities is also planned. **Registration is open until July 14.**

Program and registration under <https://indico.ijclab.in2p3.fr/event/13323/overview>

*** Rencontres accélérateurs of the French Physical Society, October 6-7, Bordeaux**

The Accelerators Division of the French Physical Society organizes every two years the "Rencontres Accélérateurs" to showcase a laboratory working on the division's research themes. The host laboratory and surrounding laboratories will present their research activities and techniques. This meeting will be held on October 6 and 7, 2026, in Talence, on the University of Bordeaux campus, and CELIA, with the support of the CEA, is in charge of the organization. Tours of CELIA, LP2IB, and the Laser Mégajoule will be organized. Supervising institutions will be invited to present their perspectives on the themes and to engage in discussions with the community. The Jean-Louis Laclare Prize will be awarded to the winners, followed by a presentation of their research. An evening reception will be organized to continue the discussions in a more informal setting. The Accelerators Division's exhibition will be open to the general public and students. Details at <https://accélérateurs.sfpnet.fr/rencontres-accelérateurs-2026/>

*** AI for Particle Accelerators Hackathon, October 11-16, les domaines de Gaston**

The AISSAI Hackathon on AI for Particle Accelerators is an intensive five-day collaborative event bringing together 30–50 researchers — accelerator physicists, AI scientists, and HPC engineers — to work hands-on on concrete scientific challenges at the frontier of machine learning and particle accelerator science. It is primarily aimed at doctoral students, post-doctoral researchers and early-career engineers from the accelerator physics, physics, AI/ML, and HPC communities. Senior scientists are welcome.

Participants will form small competing teams, share access to dedicated HPC resources at Jean-Zay (IDRIS), and tackle three major challenge tracks:

- Surrogate Modeling - building fast, reliable emulators of complex accelerator subsystems
- Anomaly Detection & classification - detecting, classifying, and explaining abnormal machine behavior
- Control, Optimization & Decision Support - AI-assisted tuning and operational intelligence

Each track will feature two teams adopting contrasting methodological approaches, with a final plenary confrontation of results on Friday afternoon. The event is accompanied by resident artists who will document the week through observation and produce an illustrated comic deliverable.

Participation is by selection: the organizing committee will assemble teams based on skill profiles and scientific preferences collected at registration. Attendance is free of charge. A limited number of travel and accommodation grants are available for early-career participants.

Details and registration available at the following link: <https://indico.in2p3.fr/event/39704/>

*** Funded PhD thesis on active and passive harmonic cavities for SOLEIL II**

As part of the SOLEIL II upgrade, the next-generation French synchrotron light source, SOLEIL is seeking a motivated candidate to join the accelerator physics group for a PhD focused on passive and active harmonic cavity systems for SOLEIL II. The project will cover longitudinal beam dynamics, RF feedback modeling, and beam instability studies. The successful candidate will also have access to the SOLEIL machine for experimental validation.

Details and application information are available at the following link: <https://www.synchrotron-soleil.fr/fr/emplois/these-etude-des-systemes-de-cavites-harmoniques-passives-et-actives-pour-soleil-ii>

*** Funded PhD thesis in beam dynamics (6 GeV linac) at the ESRF (Grenoble)**

As part of the modernization of these injectors, the ESRF is offering a PhD position in the Beam Dynamics group to work on the design of a 6 GeV electron linac and participate in the development and implementation of a test facility for high-gradient acceleration structures. The successful candidate will develop the beam dynamics model to characterize the dynamics of individual particles and particle groups, from the electron source to injection into the storage ring, and then design the optics and magnetic configuration of the linac to achieve the required performance. Finally, he/she will support the Beam Dynamics group in the preparation and implementation of the linac test facility.

More details available at the following link: https://esrf.gestmax.eu/1973/1/cfr497-phd-student/en_US

*** Electronics Engineer for the "RF and Linac" group at SOLEIL, permanent contract**

The SOLEIL synchrotron is seeking an electronics engineer for its RF and Linac group. The successful candidate will be responsible for maintaining the highest level of performance (operation, maintenance, upgrades, and improvements) of the SOLEIL equipment under his/her care:

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- The linear injector (LINAC), which generates electrons, bunches them, and accelerates them to an energy of 100 MeV before injection into the booster;
- The RF systems that accelerate the electron bunches in the booster and the Storage Ring (AS); this includes accelerating cavities, RF power amplifiers, low-level RF systems, and all associated control and monitoring systems.

He/she will also be required to contribute to the study and implementation of RF or LINAC systems for projects in which SOLEIL is involved (SOLEIL II, LUCRECE, LUNEX5, SESAME, etc.) and to continue the R&D and development of transistor-based RF power amplifiers, a field in which SOLEIL has played a pioneering role. See details: <https://www.synchrotron-soleil.fr/fr/emplois/ingenieure-electronicienne>

Sincerely,

The SCIPAC Management Committee