



IUPAP: C11 Commission

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C11 Commission

Particle and Fields

Mission/mandate

- ◆ **Promotion the exchange of information and views within scientific community in the general field of Particles and Fields including:**
 - *The theory and experiment concerned with the nature and properties of the fundamental constituents of matter and the forces acting between these constituents;*
 - *The maintaining of liaison with ICFA;*
 - *The accelerators, detectors and techniques used in these investigations;*
 - *The industrial applications of relevant technologies.*
- ◆ **Sponsorship/organisation of international conferences**
- ◆ **Promotion of free circulation of scientists**
- ◆ **Two 2024 Early Career Scientist Prizes (awarded at ICHEP2024 in Prague)**
- ◆ **Publication of newsletters, circulars etc**
- ◆ **Liaison with General Commissions of IUPAP**
- ◆ **Preparation of a summary of progress/activities to the IUPAP General Assembly**

Member for Sweden

Roman Pasechnik (2021)

C11 Officers:

Chair: Florencia Canelli (2014) (2017) (2021) Switzerland

Vice-chair: Young Kee Kim (2021) United States

Secretary: Azwinndini Muronga (2017) (2021) South Africa

+ 11 members, mandate Jan 1st 2022 - Dec 31st 2024 (+ 5 associate members)

<https://iupap.org/who-we-are/internal-organization/commissions/c11-particles-and-fields/#mission-mandate>

C11: recent progress

C11 Young Scientist Prize 2024:

The prize selection process has been a major focus. Following our usual practice, we issued a call for applications and reviewed submissions. We selected two deserving recipients, Jennifer Ngadiuba and Ian Moulton, who accepted their awards at ICHEP2024 in Prague.

Diversity initiatives:

We collaborated with conference organizers to implement diversity initiatives across events, emphasizing the importance of inclusivity in our scientific community.

Support for hybrid and virtual conferences:

We provided support for organizing hybrid and virtual conferences, facilitating participation across geographical boundaries. The C11 committee has engaged in ongoing discussions about the balance between hybrid and remote participation in conferences, particularly concerning sustainability concerns related to CO2 emissions.

Sustainability and gender balance:

Many conferences have met or exceeded gender balance recommendations set by IUPAP. However, financial feasibility has led most events to return to in-person formats.

Code of conduct:

Our community has expressed the need for a comprehensive code of conduct for conferences applicable to organizers and attendees. In our previous call for nominations, we emphasized that nominators should verify the ethical standing of candidates.

Information infrastructure:

The C11 is reviewing the information infrastructure critical to HEP research, which relies heavily on limited funding. Sustainable financial support is necessary to ensure reliable operation and quality of service. The future of INSPIRE, in particular, is still being determined due to budget cuts at SLAC and DESY. We recommended that the HEP community articulate its need for a robust information infrastructure, possibly through input for the ESPP update, similar to the Snowmass process in the U.S.

C11: Lepton-Photon & ICHEP series

◆ Governing body for ICHEP and Lepton-Photon conferences (decides on organisation etc, typically at ICHEP 4yrs ahead)

* International Symposium on Lepton Photon Interactions at High Energies

(2023 edition in Monash July 17-21st: <https://indico.cern.ch/event/1114856/>).

It covers a wide range of topics of major interest to the particle physics community. These span exploitation of current experiments, R&D towards future facilities, theoretical developments, and contributions on inclusion, diversity, and public engagement. In addition to the core plenary talks, it includes parallel and poster sessions.

✓ **32nd International Symposium on Lepton Photon Interactions at High Energies (LP-2025) will be held in Madison, Wisconsin, United States**

* International Conference on High Energy Physics (ICHEP)

(2024 edition in Prague July 17-24th: <https://indico.cern.ch/event/1291157/>)

ICHEP has been held every two years since more than 50 years, and is the reference conference of particle physics where most relevant results are presented. At ICHEP, physicists from around the world gather to share the latest advancements in particle physics, astrophysics/cosmology, and accelerator science and discuss plans for major future facilities.

✓ **C11 decided on 43th International Conference on High Energy Physics (ICHEP2026) in July 2026 to be held in Natal, Brazil**

C11: Conference support

3 types of support (application deadline typically **June 1st** each year):

Conference Type	Attendees	Conference Type Description	
Type A (General)	750 - 1000	Provide broad view of entire field of commission	11.5 k€ (5 k€ travel)
Type B (Topical)	300 - 600	Concentrate on broad subfield (eg Heavy Ion Physics)	5 k€
Type C (Special)	50 - 200	Concentrate on specialized topics	endorsed w/o financial allocations

Conferences Supervision during 2024

Category A **ICHEP2024, 17 - 24 July, 2024, Prague, Czech Rep.**

Category B **LHCP2024, 3 - 7 June 2024, Boston, US**

Category C **14th International Workshop on Neutrino-Nucleus Interactions (NuInt2024), 15 - 20 April 2024, São Paulo, Brazil**

Upcoming conferences for 2025

A: 32nd LP2025, 25 - 29 August, Madison, Wisconsin, US

B: 13th LHCP2025, 5 - 10 May, Taipei, Taiwan

C: Higgs Hunting 2025 (HH2025), Orsay & Paris, France

C: EPS-HEP 2025, 7 - 11 July, Marseille, France

Upcoming conferences beyond 2025

A: 43th ICHEP2026, July 2026, Natal, Brazil

B: International Conference on Technology and Instrumentation in Particle Physics (TIPP-2026), Mumbai, India

A: 33rd LP2027, Shanghai, China

A: 44th ICHEP2028, Bangkok, Thailand

✓ **Criteria: affordability, world-wide participation, gender equality and “code of conduct”**