

C11 News

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<http://iupap.org/commissions/c11-particles-and-fields>

IUPAP – International Union of Pure and Applied Physics



“To assist in the worldwide development of physics, to foster international cooperation in physics, and to help in the application of physics toward solving problems of concern to humanity.”

COMMISSIONS

[C1: Commission on Policy and Finance](#)

[C2: Commission on Symbols, Units, Nomenclature, Atomic Masses and Fundamental Constants](#)

[C3: Statistical Physics](#)

[C4: Astroparticle Physics](#)

[C5: Low Temperature Physics](#)

[C6: Biological Physics](#)

[C8: Semiconductors](#)

[C9: Magnetism](#)

[C10: Structure and Dynamics of Condensed Matter](#)

[C11: Particles and Fields](#)

[C12: Commission on Nuclear Physics](#)

[C13: Physics for Development](#)

[C14: Physics Education](#)

[C15: Atomic, Molecular, and Optical Physics](#)

[C16: Plasma Physics](#)

[C17: Laser Physics and Photonics](#)

[C18: Mathematical Physics](#)

[C19: Astrophysics](#)

[C20: Computational Physics](#)

WORKING GROUPS

[WG1: International Committee for Future Accelerators \(ICFA\)](#)

[WG5: Women in Physics](#)

[WG7: International Committee on Ultrahigh Intensity Lasers \(ICUIL\)](#)

[WG9: International Cooperation in Nuclear Physics \(ICNP\)](#)

[WG11: Gravitational Wave International Committee \(GWIC\)](#)

[WG13: Newtonian Constant of Gravitation](#)

[WG14: Accelerator Science](#)

[WG15: Soft Matter](#)

[WG16: Physics and Industry](#)

[WG18: Working Group on Ethics](#)

[WG19: Working Group on Quantum Science and Technology](#)

[WG20: Working Group on open science](#)

[WG21: Working Group Physics for Climate Change Action and Sustainable Development](#) *New*

AFFILIATED COMMISSIONS

[AC1: International Commission for Optics](#)

[AC2: International Commission on General Relativity and Gravitation](#)

[AC3: International Commission for Acoustics](#)

[AC4: International Commission on Medical Physics](#)

[AC5: Affiliated Commission of Physics Students](#)

[AC6: Affiliated Commission on the History and Philosophy of Physics](#)

60 territorial members are representatives of identified physics communities across the world

C11 Mission

To promote the exchange of information and views among the members of the international scientific community in the general field of Particles and Fields including:

- 1.The **theory and experiment** concerned with the nature and properties of the fundamental constituents of matter and the forces acting between these constituents;
- 2.The maintaining of liaison with WG 1 **ICFA**;
- 3.The accelerators, detectors and techniques used in these investigations;
- 4.The industrial applications of relevant technologies.

To recommend for Union sponsorship international [conferences](#) which qualify for support under Union regulations. To initiate such conferences as their need arises from the evolution of the Commission field. To assist in the organization of such conferences when practical. To ensure the compatibility of international conferences in its field and to discourage clashes and incompatibility of dates.

To promote the free circulation of scientists; to assist conference organizers in ensuring such free circulation and in resolving potential infringements.

To organize where feasible the [award](#) of medals or other testimonials of excellence in its field.

C11 members 2021-2024

Florencia Canelli (chair) (Switzerland)

Azwinndini Muronga (vice-chair) (South Africa)

Young-Kee Kim (secretary) (US)

Members

Alexander Sorin (Russia)

Nicole Bell (Australia)

Barbara Clerbaux (Belgium)

Marcelo Munhoz (Brasil)

Jana Bielcikova (Czech Republic)

Lydia Iconomidou-Fayard (France)

Srubabati Goswami (India)

Atsuko Ichikawa (Japan)

Roman Pasechnik (Sweden)

Franz Muheim (UK)

Isabell Melzer-Pellmann (Germany)

Associate members

Oliver Stelzer Chilton (Canada)

Liangjian Wen (China)

Ana Machado (Brazil)

Taakaki Kajita (C4 chair)

Anu Aprahamian (C12 chair)

New membership 2024-2027 will be selected in October
at the 33rd IUPAP General Assembly

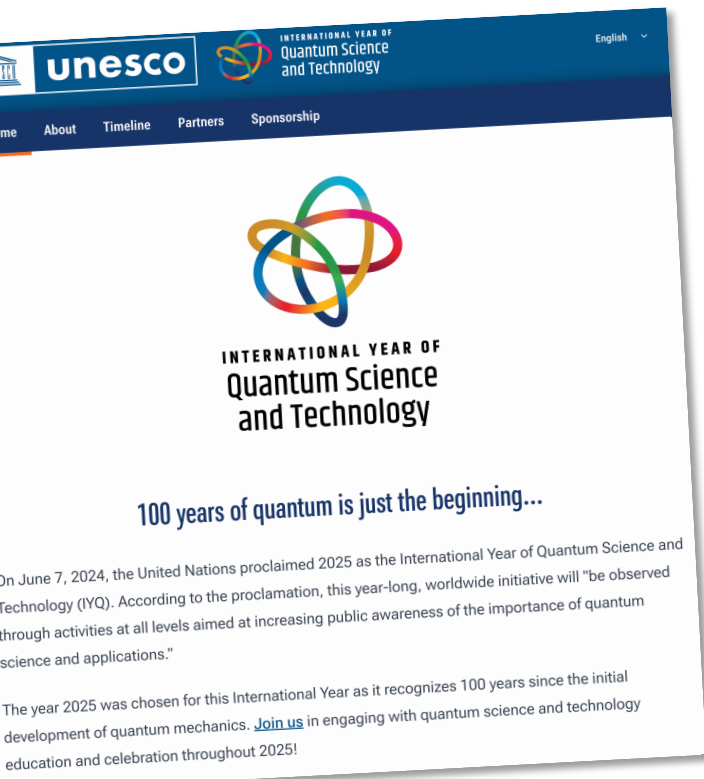
Florencia Canelli - University of Zurich



Contact all members:
IUPAP-C11-Members@cern.ch

IUPAP news

International Year of Quantum Science and Technology 2025



UN General Assembly proclaimed 2025 as the International Year of Quantum Science and Technology (<https://quantum2025.org/en/>)

Led by IUPAP and includes many C11 relevant organizations as partners <https://www.iybssd2022.org/en/unions-partners/>

The C11 community has the potential to contribute enormously to both.

C11 commission encourages scientists to engage within their local organization and participate in the activities that will be organized to celebrate IYQ2025 and IDSSD.

International Decade of Sciences for Sustainable Development

UN General Assembly declared 2024-2033 as the International Decade of Sciences for Sustainable Development (IDSSD) (<https://www.un.org/en/observances/international-decades>)

The approval came as a sequel to the very successful International Year of Basic Sciences for Sustainable Development (IYBSSD, <https://www.iybssd2022.org/en/>) in which IUPAP played a key role

First 2 years dedicated to form the "Earth Humanity Coalition" which serves for activation, mobilization and expansion. EHC includes scientists from all fields (humanities, social and human sciences, natural sciences, etc.). If your organization/institute/university is interested, you can consider joining the EHC <https://earth-humanity.org>



Conferences

Conferences sponsored by IUPAP

- Categorized depending on number of attendees and breadth of topics covered as Type A, Type B, Type C (Type D for workshops in developing countries)
 - Travel grants can be requested to assist scientists from developing countries for Type A conferences
- Requirements:
 - Have a significant scientific value
 - Have involvement of internationally distinguished physicists
 - Be truly international: participation and location rotate across countries and continents
 - Participation Of Women: at least 20% of women represented across the three major conference committees, viz IAC, PC, and LOC, and a minimum of 10% of women attending
 - Host country declaration that individuals will not be excluded solely on ground of national origin or citizenship
 - Fee: ensure that IUPAP supported conferences (sponsored and endorsed) are accessible to physicists at all stages of their careers and from all groups and countries,
 - Code of conduct: include a code of conduct and adhere to the IUPAP anti-harrasement policy

C11 supported conferences

2024

Funding support

- A: International Conference of High Energy Physics (ICHEP2024) - 1000 participants, broad field of particle physics
- B: Large Hadron Collider Physics Conference LHCP 2024 (LHCP24) - 2024 participants, broad field of collider physics

Endorsement

- C: Higgs Hunting 2024 (HH2024) – 120 participants, topical
- C: International Workshop on Neutrino-Nucleus Interactions (NuInt2024) – 100 participants, topical

2025

Funding support

- A: Lepton Photon conference 2025 (LP25) – Madison, Wisconsin, United States
- B: Large Hadron Collider Physics Conference LHCP 2025 (LHCP25) – Taipei, Taiwan

Endorsement

- C: Higgs Hunting 2025 (HH2025) – Orsay & Paris, France
- C: European Physical Society HEP 2025 – Marseille, France

Solicitation for 2026 conference sponsorship and endorsement

- IUPAP C11, Particles and Fields, is soliciting applications from institutions interested in hosting conferences in 2025
- Applications are accepted **until June 1, 2025**
 - For conferences that will be held anytime in 2025 (i.e. anytime between 1 Jan and 31 Dec 2025)
 - Applications for financial support: open in Jan 1, 2025 – review is done in July 2025
<https://iupap.org/conferences/applications/application-for-conference-sponsorship/>
 - Applications for endorsement: always open - review soon after submission
<https://iupap.org/conferences/applications/application-for-conference-endorsement/>
- The application should contain information about the participating institutions, the local organizing committee, likely costs and locations and alternative funding sources.
- Please see <http://iupap.org/commissions/c11-particles-and-fields/c11-conference-guidelines/> for the full conference guidelines.

ICHEP and Lepton Photon conferences

- IUPAP C11, Particles and Fields, solicits bids for hosting ICHEP and Lepton Photon 3 to 4 years in advance to allow organizers to overlap with the previous organization for a smooth transition
 - *New: TIPP hosting decision 2-3 years in advance*
- During ICHEP 2024, C11 reviewed applications for TIPP 2026, LP 2027, ICHEP 2028
 - TIPP 2026 will be hosted in Mumbai, India
 - LP 2027 will be hosted in Shanghai, China
 - ICHEP 2028 will be hosted in Bangkok, Thailand

C11 conferences beyond 2025

Lepton Photon

- 2007 - Daegu
- 2009 - Hamburg
- 2011 - Mumbai
- 2013 - San Francisco
- 2015 - Ljubljana
- 2017 - Guangzhou
- 2019 - Toronto
- 2021 - Manchester
- 2023 – Melbourne
- 2025 – Madison
- 2027 – Shanghai (new)

ICHEP

- 2008 – Philadelphia
- 2010 - Paris
- 2012 - Melbourne
- 2014 - Valencia
- 2016 - Chicago
- 2018 - Seoul
- 2020 – Prague (virtual)
- 2022 - Bologna
- **2024 – Prague**
- 2026 – Natal
- 2028 – Bangkok (new)

TIPP

- 2009 – Tsukuba
- 2011 – Chicgo
- 2014 - Amsterdam
- 2017 - Beijing
- 2021 – Vancouver (virtual)
- 2023 – Cape Town
- 2026 – Mumbai (new)

Early Career Scientist Awards

Early Career Scientist Award 2024

Jennifer Ngadiuba

- *For co-design, development and deployment of novel machine learning techniques to address complex elementary particle physics challenges with focus on ultra-fast real-time data analysis on hardware triggers and for model agnostic searches for beyond the Standard Model physics signals at the Large Hadron Collider.*



Early Career Scientist Award 2024

Ian Moult

- *For the invention of novel jet substructure observables which have had a direct impact on the collider physics program, and for developing new effective field theory techniques to enable high precision calculations, including in multi-prong kinematics and in sub leading soft and collinear limits.*

