

# C11 Summary

January 14, 2022

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University of Zurich

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



# What we do

Commission on Particles and Fields ([C11](#)) of the International Union of Pure and Applied Physics ([IUPAP](#))

Main activity is the supervision of international conferences as sponsored by IUPAP (ICHEP, LP, TIPP, etc..)

but also:

Supervise the International Committee for Future Accelerators (ICFA)

Reports on Authorship (2005) and Recognition in Large Collaborations (2008)

Discussion on "ranking of members of large Collaborations" together with ICFA, EPS-HEP, etc.. (2008)

Recent: Neutrino Panel (2018)

Young Scientist Prize at ICHEP (every two years)

For the past couple of years, we collect and summarize best practices for virtual conferences for worldwide accessibility

# C11 membership 2021-2024

*Thanks to the outgoing members:  
**Zhi-Zhong Xing, Mihoko Nojiri, Dezso Horvath, Johan Rathsman, Antonio Zoccoli, Raymond Volkas, Marie-Helene Schune, Sergio F. Novaes, Brigitte Vachon***

*And special thanks to **Heidi Schellman** for 10 years of diligent service to C11!*

**Florenca Canelli** (chair) (Switzerland) - [canelli@physik.uzh.ch](mailto:canelli@physik.uzh.ch)

**Azwinndini Muronga** (vice-chair) (South Africa)

**Young-Kee Kim** (secretary) (US)

Alexander Sorin (Russia)

Nicole Bell (Australia)

Barbara Clerbaux (Belgium)

Marcelo Munhoz (Brasil)

Jana Bielcikova (Czech Republic)

Lydia Iconomidou-Fayard (France)

Bernhard Spaan (Germany)

Srubabati Goswami (India)

Atsuko Ichikawa (Japan)

Roman Pasechnik (Sweden)

Franz Muheim (UK)

Contact all members:  
[IUPAP-C11-Members@cern.ch](mailto:IUPAP-C11-Members@cern.ch)

# IUPAP major policies

- Ensure the free movement of scientists
- Encourage accessibility, gender and national balance in physics
- Have policies to prevent harassment of individuals or groups at conferences
- Advice and reporting on achieving these goals

# 30<sup>th</sup> General Assembly IUPAP – some resolutions

<https://iupap.org/who-we-are/internal-organization/general-assembly/30th-general-assembly/>

## Awards

- The IUPAP renames its Young Scientist Prizes as **Early Career Scientist Prizes**. This change of name reflects that the prizes are not intended for “young” people in terms of chronological age but in terms of the stage of the career they are at. The IUPAP also approves that periods of **career interruptions should be excluded** when counting the years of research experience after the PhD to decide whether a person qualifies as an early career scientist or not.
- Recipients of IUPAP Awards are expected to meet the commonly held **standards of professional ethics and scientific integrity**. Nominators should include a statement saying that, to the best of their knowledge, there are no concerns that IUPAP should be aware of regarding the nominee satisfying this expectation.
- The IUPAP mandates its Commission chairs to guarantee that the pool of candidates for Commission and Early Career Scientist awards be **sufficiently diverse, particularly in terms of gender and other underrepresented groups and geographical regions** by monitoring the nominations, sending reminder, and/or extending deadlines if necessary.

## Conferences

- Update the IUPAP current guidelines on good practice to cover **virtual (online) conferences**.
- Call upon all organizers of scientific meetings and conferences which include virtual participation to **take into strict consideration issues of accessibility restrictions** that continue to persist on the basis of geographical locations and either choose platforms with global access and worldwide footprint or include more than one way through which unhindered global participation.

# C11 – virtual conference summary

- All talks should be **recorded** (individually if possible) and posted online. Professional **closed-captioning** is feasible and increases accessibility. The increased participation that recording allowed has been unprecedented and should be retained.
- **Frequent breaks, a shortened daily schedule** and, if necessary, a longer length in days are needed for an online conference. Without the need for physical rooms, there can be many more sessions in parallel.
- Particle Physics held a Virtual Meeting on Virtual Meetings in May 2021. The agenda and talks are at <https://indico.cern.ch/event/1026363/> and it was summarized in an article “[Learning from the Pandemic: the Future of Meetings in HEP and Beyond](#)“, **Neubauer et al**, e-Print: [2106.15783](#) [physics.soc-ph].
- There are also **strong environmental reasons to consider** reducing the amount of international travel associated with conferences.
- The use of commercial conference centers should perhaps be reconsidered. One major hurdle for several conferences was substantial cancellation fees for venues. These were mitigated by agreeing to postpone rather than cancel the use of the venue. But going forward, it is likely that physical attendance at conferences will decrease while virtual attendance will continue to be a useful option. Use of smaller academic facilities, which have lower costs, large numbers of smaller rooms, and better IT infrastructure for recording and streaming video may become the norm.
- Organizers might consider **charging a nominal fee** (50 EU) **to remote speakers** to cover the costs of IT, proceedings and close captioning with no fee remote registrants without a speaking role.

# IUPAP neutrino panel report



<https://www.iupapneutrino.org>

- IUPAP neutrino panel established to promote international cooperation in the development of experimental programs to study the properties of neutrinos.

- Combined effort under the supervision of the C4, C11 and C12

- Panel: **3 co-chairs from 3 regions, 19 members / 11 countries**

- **White paper:**

- a) Cover the present status of the global neutrino physics program and the developments that can be expected on a 5 to 10-year time scale through a science driven white paper
- b) Collect R&D and measures (including software development) that are required for the near-term (<10-year) and medium- to long-term (10-25-year) program to fulfil their potential
- c) Collect feedback on a draft report from the community

Submitted to IUPAP C11 and General Council

The IUPAP Neutrino Panel:

M. Sajjad Athar<sup>1</sup>, Steven W. Barwick<sup>2</sup>, Thomas Brunner<sup>3,4</sup>, Jun Cao<sup>5</sup>, Mikhail Danilov<sup>6</sup>, Kunio Inoue<sup>7</sup>, Takaaki Kajita<sup>8</sup>, Marek Kowalski<sup>9,10</sup>, Manfred Lindner<sup>11</sup>, Kenneth R. Long<sup>12</sup>, Nathalie Palanques-Delabrouille<sup>13</sup>, Werner Rodejohann<sup>14</sup>, Heidi Schellman<sup>14</sup>, Kate Scholberg<sup>15</sup>, Seon-Hee Seo<sup>16</sup>, Nigel J.T. Smith<sup>4,17,18</sup>, Walter Winter<sup>10</sup>, GERALYN P. ZELLER<sup>19</sup>, Renata Zukanovich Funchal<sup>20</sup>

\*Co-Chairs

Additional contributing authors:

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October 19, 2021

<https://arxiv.org/abs/2111.07586>

# C11 upcoming conferences

## Lepton Photon

- 2007 - Daegu
- 2009 - Hamburg
- 2011 - Mumbai
- 2013 - San Francisco
- 2015 - Ljubljana
- 2017 - Guangzhou
- 2019 - Toronto
- 2021 - Manchester
- 2023 - Melbourne

## ICHEP

- 2008 – Philadelphia
- 2010 - Paris
- 2012 - Melbourne
- 2014 - Valencia
- 2016 - Chicago
- 2018 - Seoul
- 2020 – Prague (virtual)
- 2022 - Bologna
- 2024 - Prague

2022 Neutrino (Seoul), LHCP (Taipei), ICFA seminar (Berlin), Baldin (Dubna)  
2023 TIPP (Cape Town), CHEP (Norfolk)



# TIPP series and governance

- ✓ Established in 2009 by C11/IUPAP, originally conceived as the “Rochester conference in Instrumentation” → alternate with VIENNA, PISA conference series; same year as INSTR
- ✓ Remarkable progress achieved during the last decade, recognition of the conference is gradually approaching the level of ICHEP or Lepton-Photon in particle physics community
  - → stable attendance: Tsukuba (440), Chicago (483), Amsterdam(448), Beijing (301), TRIUMF (529)
  - → more to be addressed: how is it different from IEEE, industrial partnership, open discussion of “problem issues”, less project-oriented reports, more focus on new & emerging technologies ...
- ✓ The TIPP Steering Committee has been established in 2020 with a formal mandate from C11/IUPAP to set up a long-term leadership ensuring strategic view, continuity and tradition

## TIPP SC BYLAWS:

**TIPP CONFERENCE BYLAWS (Approved by the TIPP SC on 23/06/2021)**

**Name, Objectives and Field of Interest:**

The International Conference on Technology and Instrumentation in Particle Physics shall be referred to hereinafter as the TIPP Conference Series. It represents a science-driven cross-disciplinary conference, started in Tsukuba, Japan in 2009, which have been alternating between America, Europe and Asia: Chicago (2011), Amsterdam (2014), Beijing (2017), Vancouver (2021, online). The program focus is on the technology, detector development and instrumentation in particle physics, astro-particle physics and closely related domains. The TIPP shall aid in promoting close cooperation between particle physics and applications in other fields of science that may lead to transformational new technologies. This conference brings together experts from the scientific and industrial communities; it has been originally conceived as the “Rochester conference in Instrumentation”.

**Organization, Location and Site Selection:**

The TIPP Conference is organized under the auspices of C11/IUPAP and shaped with the help and support of the TIPP Steering Committee (TIPP SC). The latter ensures the long-term tradition and continuity of the TIPP conference series and is responsible for the future strategy. The conference takes place every third year rotating among the different continents and alternating with PISA and VIENNA Instrumentation conferences (by default, TIPP is held the same year as the INSTR conference in Novosibirsk). Due to the COVID, TIPP2020 has been exceptionally moved by one year ahead; the next conference will take place in 2023.

The TIPP SC, jointly with C11/IUPAP, is responsible for making call for proposals, 6 months ahead of the upcoming TIPP conference for the next one, and soliciting applications from institutions interested in hosting the next TIPP conference. All bids have to be presented by the proposers and discussed at the joint meeting of C11/IUPAP + TIPP SC meeting, which is held during the TIPP conference. The final decision for the next conference site location is based on the vote among the C11 members.

**Sponsorship and Support by C11/IUPAP:**

TIPP Sponsorship and Support by the C11/IUPAP will likely be at the B level. IUPAP Sponsorship places requirements for open access, diversity and formal reporting. For more details, see:

<https://iupap.org/conferences/conference-policies/>

<https://iupap.org/where-we-work/inter-national-commissions/c11-particles-and-fields/c11-meetings/>

**Committees:**

**Local Organizing Committee (LOC):**

consists of the team proposing the conference bid, the Local Chair, and additional members with various tasks appointed by the Local Chair. The latter submits nomination of the General Chair of the conference, which is discussed by the TIPP SC and formally endorsed by the C11/IUPAP. The LOC assists the participants during all steps of conference preparation, registration phase in situ, and while in progress.

**International Organizing and Program Committee (IPC):**

### TIPP Steering Committee Membership (2021 - 2023)

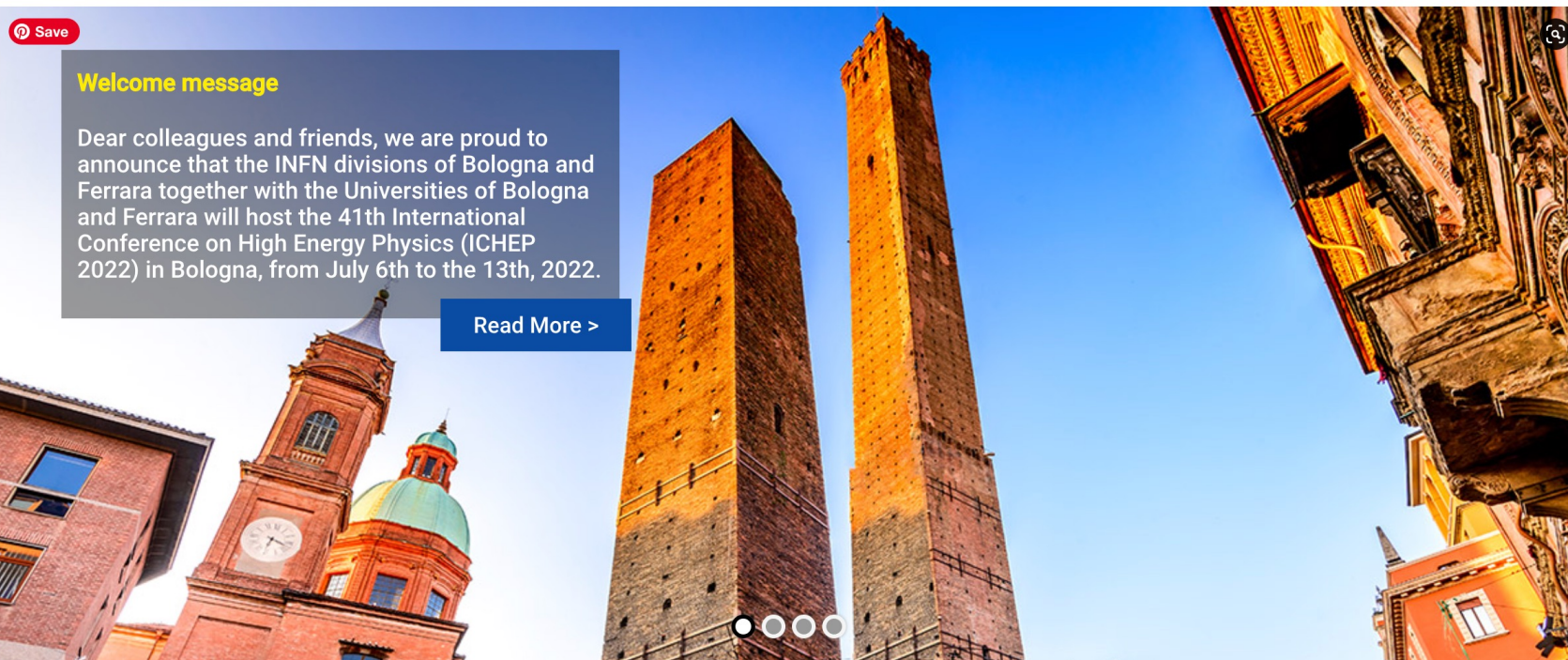
|                                       |                               |
|---------------------------------------|-------------------------------|
| <b>Niels van Bakel</b>                | Nikhef, Amsterdam, NL         |
| <b>Ties Behnke</b>                    | DESY Hamburg, Germany         |
| <b>Marcel Demarteau</b>               | ORNL, USA                     |
| <b>Francesco Forti</b>                | INFN / University Pisa, Italy |
| <b>Kazunori Hanagaki</b>              | KEK, Japan                    |
| <b>Manfred Kramer</b>                 | CERN, Switzerland             |
| <b>Petra Merkel</b>                   | Fermilab, USA                 |
| <b>Fabrice Retiere</b>                | TRIUMF, Canada                |
| <b>Yuri Tikhonov</b>                  | BINP Novosibirsk, Russia      |
| <b>Maxim Titov (Chair, 2021-2023)</b> | CEA Saclay, France            |
| <b>Yifang Wang</b>                    | IHEP, Beijing, China          |

BOLOGNA 6<sup>th</sup>-13<sup>th</sup> JULY

# ICHEP 2022

41<sup>st</sup> International Conference on High Energy Physics

HOME ICHEP 2022 GENERAL INFORMATION PROGRAM CONTRIBUTIONS REGISTRATION HOTEL CONTACTS f t

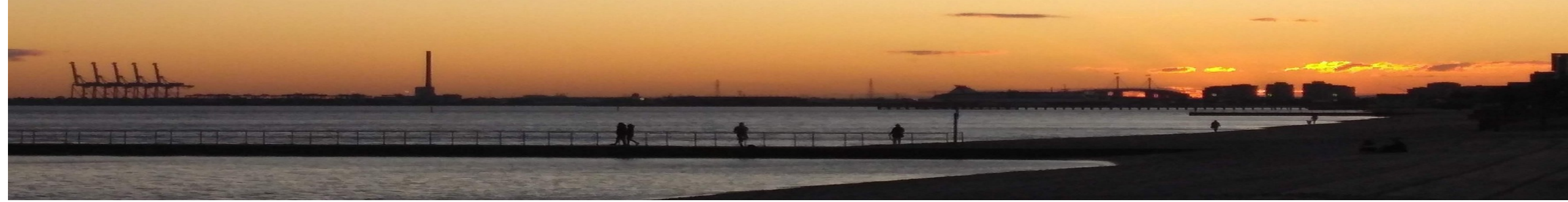


Progressing actively with the organization in mixed (in person + remote) mode.

Next week

- Opening the registration and the call for abstracts
- Competition for brand/logotype (350 applications!) – winner to be known on Monday
- Opening the social accounts (Facebook, Instagram and Twitter) of the conference

Gala dinner confirmed in historic and extremely central Palazzo Re Enzo



# Lepton Photon 2023

Monash University will host the next symposium 17-21 July 2023

Looking forward to see many of you in Melbourne, Australia



# Solicitation for 2025 and beyond

- IUPAP C11, Particles and Fields, is soliciting applications from institutions interested in hosting the Lepton Photon Symposium in 2025 and the “Rochester Conference”, ICHEP in 2026.
- Interested parties should contact the C11 chair –Florenca Canelli (canelli@physik.uzh.ch). Written applications will be accepted until June 1, 2022.
- 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 our full conference guidelines.

# IUPAP Early Career Scientist Award 2022\*

The [Commission on Particles and Fields \(C11\)](#) of IUPAP solicits nominations of outstanding young experimental or theoretical particle physicists for the two 2022 Early Career Scientist Prizes.

The prizes, each consisting of an IUPAP medal and a cash (€1000) award, will be presented at the [41th International Conference on High Energy Physics, Bologna, Italy](#) on July 6 - 13, 2022.

Candidates for the prize should have a maximum of 8 years of research experience (excluding career interruptions) following the PhD.

Nominations for the IUPAP Particles and Fields Early Career Scientist Prizes:

- can be made by experimental or theoretical particle physicists who know the work of the nominee well and include a citation statement,
- should consist of a minimum of two and a maximum of three letters explaining the nominee's qualifications and scientific achievements, a complete CV, and a list of publications, and
- include a proposed award citation of 50 words or less describing the contributions of the nominee.

Recipients of IUPAP Awards are expected to meet the commonly held standards of professional ethics and scientific integrity. Nominators should include a statement saying that, to the best of their knowledge, there are no concerns that IUPAP should be aware of regarding the nominee satisfying this expectation.

The nominator should collect the material and upload it at <https://academicjobsonline.org/ajo/jobs/20480>

All material should be submitted before February 1, 2022 at 12:00pm CET.

\* Previously called IUPAP Young Scientist Prize

Thanks to the  
hosts in virtual-  
Manchester!

And all the excellent speakers  
and poster presenters

**We hope to see you in ICHEP  
2022 in Bologna!**