

Communication & Social Media report 28th IPPOG meeting

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Scientific Secretary and Communication Officer

CERN, 26 November 2024



- Newsletter
- Social media report
- Website news
- Inspirational Success Stories
- Goodies
- Annual Report







Welcome to the IPPOG Newsletter!

We are thrilled to present our first newsletter, packed with updates and news about IPPOG's activities!



Successful deliveries: 93% (43)

• Open rate: 77.5%

Bounced: 3

Unsubscribed: 0

Link clicks: 16.1%

https://cds.cern.ch/record/2909917





16th September 2024



Welcome back!

Many of you are returning to the office, while others are already back.

With this second edition of our newsletter, whether you were working from experiment control rooms or spending time with your families, we'd like to extend a warm welcome back to all of you!

Hadron Therapy



Yiota Foka (Particle Therapy Masterclasses coordinator) presented the brand new Particle Physics Therapy Masterclasses during the latest edition of ICHEP in Prague.

You can find more information at this link: jppog.org/news/jppog-ichep-2024

Those interested in this activity will also want to join the Hadron Symposium,

which will be held in Thessaloniki from October 19-21, 2024.

Attendance can be either in person or online, and registration can be completed by following this link: indico.cern.ch/event/1431627

Successful deliveries: 93.6% (257)

Open rate: 57.9%

Bounced: 16

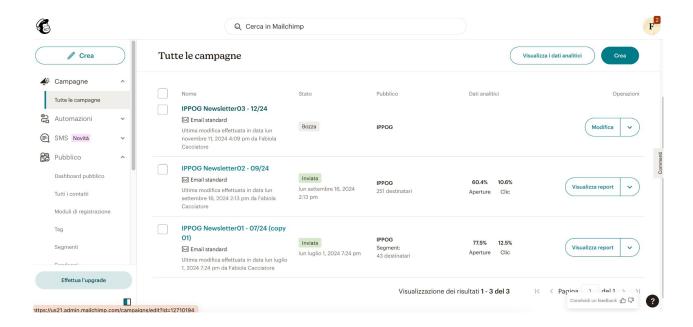
Unsubscribed: 0

Link clicks: 47

https://cds.cern.ch/record/2909918



330 contacts





Direct Link

https://ippog.org/form/newsletter



Website pop up

JOIN OUR NEWSLETTER →





4 x year (March - July - September - December)

Please send us your news to share with the IPPOG community



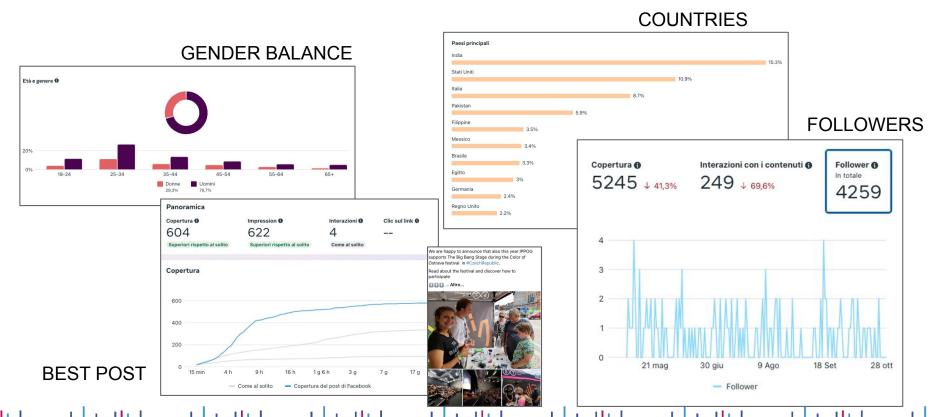
Who is the community (e-group)

The target audience for an IPPOG newsletter may include:

- 1. **Students** and **teachers of science and physics**, particularly at the secondary and university levels, interested in deepening their knowledge of particle physics.
- 2. The **academic community and researchers** in the field of particle physics and science in general.
- 3. **Science outreachers**, to promote collaborations or disseminate events related to particle physics.



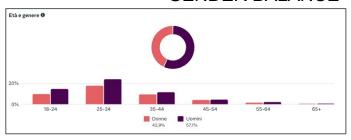
Facebook

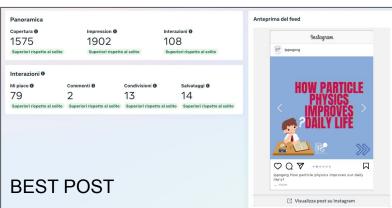




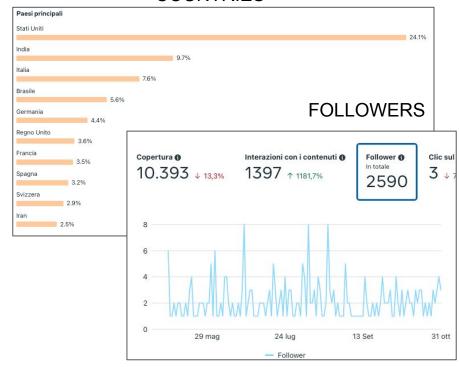
Instagram

GENDER BALANCE



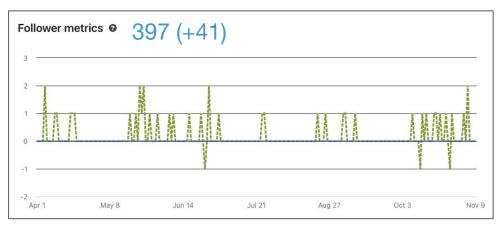


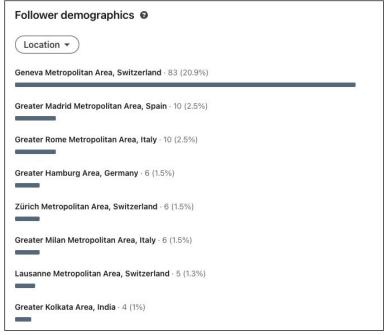
COUNTRIES





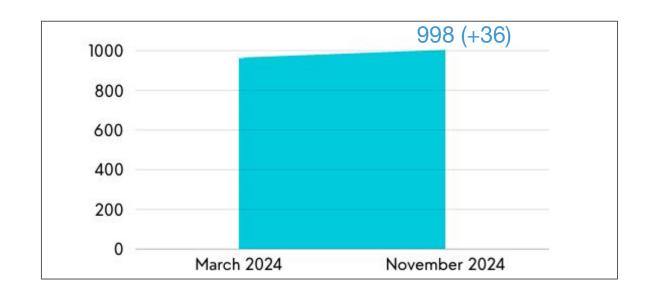
LinkedIn





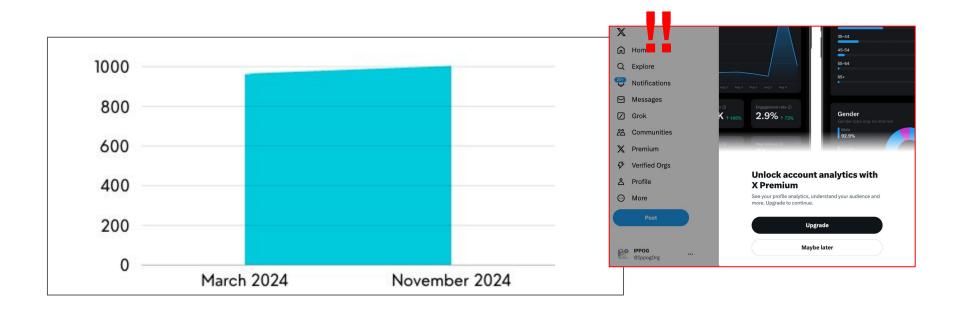














12 news shared since May 2024

Main news:

- The difference between Particle Therapy Masterclass and Particle Physics Masterclasses
- Discover the Particle Physics Tapas by IPPOG
- International Cosmic Day 2024
- World Wide Data Day (WWDD) 2024 Set for November 14
- IPPOG at ICHEP 2024
- Colors of Ostrava 2024: A Celebration of Music and Culture with IPPOG's Support
- IPPOG Annual Report 2023 Now Available
- 70th Anniversary of CERN
- Highlights from the 27th IPPOG Meeting at CIEMAT, Madrid
- Recognising the Winners of the 1st edition of the IPPOG Photo Contest



21 October, 2024

The difference between Particle Therapy Masterclass and Particle Physics Masterclasses

The Particle Therapy Masterclasses are part of International Masterclass Program.



15 October 2024

Discover the Particle Physics Tapas by IPPOG

The world of particle physics can seem complex sometimes... but we have created an innovative and accessible way to bring this fascinating field closer to everyone: the Particle Physics Tapas. Much like the small, delicious Spanish dishes they are named after, these Tapas are tiny introductions to key concepts in particle physics.



O Contombor 2027

International Cosmic Day 2024

Exciting News! Get ready for the cosmic celebration of the 13th International Cosmic Day on November 26, 2024!



World Wide Data Day (WWDD) 2024 Set for November 14

On November 14, 2024, students from around the globe will participate in the LHC World Wide Data Day (WWDD), a 24-hour event that offers high school students a unique opportunity to analyse data from the Large Hadron Collider (LHC).



Applying #BackToSchool to Global Science Outreach: Can It Work?

Once, someone asked our social media manager if the hashtag #BackToSchool could be applied to the world of science and related outreach. Let's start with a brief explanation of what this hashtag means, and then we'll share the response from our

1 2 3 4 5 >> >







Representative's profile to be completed

https://ippog.org/form/representative-information





International Masterclasses

https://ippoq.org/imc-international-masterclasses

What's new?

- Reorganization of the menu
- New video
- Institutes update



Success Stories

- Discover IPPOG reports and publications
- > ICHEP 2024 Conference Outreach Plenary talk is on YouTube
- > Enjoy the 2024 photo contest results
- 8 witness stories on applications for society!

Resources

- > Particle Physics Tapas, by IPPOG working groups
- > IPPOG members & partners multilingual web sites
- > RDB, the 25th anniversary IPPOG resource database

View some of the IPPOG members projects

Home Highlights

https://ippog.org/



Success Stories

- Discover IPPOG reports and publications
- ICHEP 2024 Conference Outreach Plenary talk is on
- YouTul
- **Don't forget to send us your**
- news to share on the website
- Particle Physics Tapas, by IPPOG working groups
- IPPOG members & partners multilingual web sites
- RDB, the 25th anniversary IPPOG resource database

View some of the IPPOG members projects



Inspirational Success stories

Highlighting success to inspire and connect

Goal:

Showcase the projects of IPPOG contributors (success stories) through **periodic interviews**, inspiring new generations and **amplifying visibility**

Project Structure:

- Format: Regularly published interview-style articles (news on the website)
- Key Content:
 - Personal journey
 - Scientific achievements
 - Messages for future generations
- Channels: IPPOG website, newsletter, and social media

Timeline:

• **01/2025:** Planning and first article launch





Goodies









Handle with care!

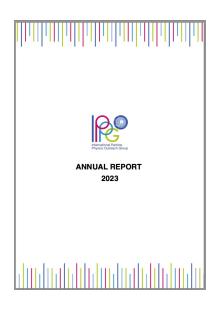
it contains highly energetic particles!

You are invited to stop by the IPPOG office (b. 1-1/24) to collect the gadgets you need for your activities.

Flyers are also available online and ready for printing

https://cds.cern.ch/record/2903880







34 reports received from ippog members in 2023

Well done!

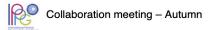
28 in 2022

Print version will be distributed to the representative during the CB meeting. A digital version is available on **IPPOG website>publications**









Indico URL link: https://indico.cern.ch/e/ippog-2023-autumn





26th IPPOG autumn meeting at CERN, 28 - 29 - 30 November 2023

The 26th Collaboration Meeting was organized and hosted at CERN. Spanning from November 27 to 30, 2023, the meeting attracted a diverse assembly of 70 registered participants. The sessions were moderated by the co-Chair Pedro Abreu, while Claire Adam, gave a presentation on Communication, Outreach and Citizen Science at the 13th ICFA meeting in Hamburo.

The first days were dedicated to the meetings of various Working Groups: "Application for Society," "Masterclass to New Countries," and "Exhibits and Public Events" and the International Masterclasses Steering Group convened to address pertinent matters.

In the evening of November 28, attendees were offered the optional opportunity to join in the Movie Night featuring "Ghost Particle," a documentary by Geneva Guerin (Director of Cinécoop Productions in Canada), followed by a captivating Medipix Demonstration led by Pinelogi Christodoulou (Doctoral Student at CERN).









Global Cosmics Group and International Cosmic Day 2023

Carolin Gnebner (DESY), Sabine Hemmer (INFN)

The Global Cosmics Group reunites groups active in outreach on subjects related to cosmic ray physics. Its members engage in projects in more than 12 countries all around the world. The group's core activity is the participation to the International Cosmic Day (ICD), organized every year by DESY with support from the Global Cosmic Group, scientists and event experts.

The 12th ICD, held on November 21, 2023, connected 2600 students, researchers, and institutions across 19 countries and 4 continents. Through joint video conferences, participants discussed and explored cosmic particles, supported by scientists and teachers. Those unable to attend in person accessed real data remothey provided by the Global Cosmic Group.

Once again, a booklet summarizing the research findings of the youth participants was compiled:

https://syncandshare.desy.de/index.phps/4xmECbwcAyDbYAq.
There is a lot to discover; great pictures from all over the world, research results from zenith angle measurement to balloon flight data or the effects of smoke from Canadian wildfres. The participating groups consistently demonstrate a remarkable research spirit, delving into a diverse array of topics with enthusiasm. They dedicate significant effort to presenting their research indrings with clarity and precision. Swittly immersing themselves in the scientist's role, the young participants grasp the essence of international cooperation, fostering a deeper understanding of collaborative scientific endeavors.

In addition to the scientific activities, the young people are also invited to take part in a drawing contest, a photo contest and a kahoot quiz. On the left is the winning artwork from the drawing contest, and on the right is the photo from the photo contest.





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Speakers and Publications Committee (SPC)

Members: Despina Hatzifotiadou, Dezső Horvath, Farid Ould-Saada, , Jonas Strandberg

The SPC makes a regular survey of conferences of interest for IPPOG participation, such as major conferences in particle physics and specialised conferences in physics education. Abstracts are prepared and sent to these conferences. For the abstracts accepted, speakers are identified and selected to attend the conference and present on behalf of IPPOG (in plenary, parallel, or poster sessions). The committee also checks the presentation, regarding the content and style, and finalises the proceedings and/or other publications.

In 2023 IPPOG was present at the following conferences:

EPS-HEP 2023 21-25 August 2023, Hamburg, Germany (EPS Conference on High Energy Physics) https://www.eps-hep2023.eu "The International Particle Physics Outreach Group" presented by Claire Adam Bourdarios

TAUP2023 22 August-1st September 2023, Vienna, Austria (International Conference on Topics in Astroparticle and Underground Physics) https://indico.cern.ch/event/1199289/

"(International Masterclasses - from collider physics to neutrinos and cosmic rays" presented by Ivan Melo

ACP2023 25-30 September 2023, George, South Africa (African Conference on Fundamental and Applied Physics)https://indico.cern.ch/event/1229551 "Engaging Teachers for Informal Education in Modern Physics"

presented by Pedro Abreu

ACHEP2023 23-27 October 2023, Casablanca, Morocco (The First Edition of the African Conference on High Energy Physics) https://fs.uit.ac.ma/achep/

"The International Particle Physics Outreach Group: A pillar of particle physics

presented by Claire Adam Bourdarios

Conferences on Education in 2023:

GIREP*-EPEC 2023 3-7 July 2023, Košice, Slovakia (World Conference on Physics Education) https://indico.cern.ch/event/1162406/ "The IPPOG Resource Database: Making particle physics outreach & education available worldwide" presented by Barbora Bruant Gulejova

*GIREP : Groupe Internationale de Recherche sur l'Enseignement de la Physique



NOvA: A new "Nu" Masterclass

On March 11, 2023, the University of Minnesota hosted a NOvA masterclass with local high school students and teachers, led by Professor Greg Pawloski, QuarkNet staff, and educator Mike Plucinski. The measurement explores neutrino oscillations between NOvA detectors, differing from MINERvA's focus on neutrino interactions with nuclei. Participants use Python notebooks for data analysis, adding a coding dimension. Successful pilots occurred at the University of California, Irvine, and the Sanford Underground Research Facility in South Dakota, Workshops at Fermilab refined the protocol, with feedback integrating into the IMC 2024 offerings for NOvA measurement.



Particle Therapy Masterclass for teachers and Music Festival in Sofia, Bulgaria During the 25th IPPOG

spring meeting in Sofia, in addition to the regular biennial community meeting of IPPOG, various notable public events took place. These included a CMS masterclass for students

and a Particle Therapy Masterclass for Teachers. Throughout these days, students participated in a school contest (video and art works) and they were awarded by the Bulgarian colleagues and IPPOG chairs.

A science festival featured (in the Sofia Tech Park) with the "Music of Physics" events led by the former chair Steven Goldfarb



CERN Courier : A New Dawn

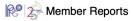
In the context of the CERN Science Gateway's opening (October 2023), the November edition of the CERN Courier was dedicated to outreach activities. In this issue, IPPOG co-chair Claire Adam discussed the increasing importance of communication and education in scientific conferences. with many now incorporating dedicated outreach sessions. Hands-on activities and programmes (such as the International Masterclasses) have gained popularity and are now being extended to global time zones and online platforms. Virtual visits to LHC experiments and community-driven events like Dark Matter Day aim to enhance scientific understanding among a



landscape of outreach in particle physics.



Annual Report (MEMBERS)



Below is the list of available reports divided by years. Please note that some members do not have reports to display for 2023, which is why they have chosen to include reports from the previous two years. You will find reports from 2022 and 2010 as well as an illustration of the type of activities carried out in the countries.

2023

ALICE COLLABORATION
ATLAS COLLABORATION
AUSTRALIA
BRAZIL
BULGARIA
CERN
CZECH REPUBLIC
FINLAND
FRANCE
GEORGIA
GERMANY
GREECE
GSI
HAWC
HUNGARY
INDIA
ITALY
LHCb COLLABORATION
MONTENEGRO
NORWAY

PIERRE AUGER OBSERVATORY

ROMANIA SLOVAK REPUBLIC SLOVENIA SOUTH AFRICA SPAIN SWITZERLAND

2022

AUSTRIA BELLE II EXPERIMENT CMS COLLABORATION

DESY





More than 20 virtual

visits to the ALICE

cavern and control

room were done via

first Instagram Live

took place.

girls on the International Day of Women and Girls in Science (11th February). ALICE contributed also to the National High-School Teachers programmes at CERN with masterclasses for the Swedish teachers and the Greek teachers. ALICE members organised a week-long internship at CERN in July for 15 students from Liceo Gandini. Lodi, Italy and a three-week-long internship at CERN

ALICE Collaboration 2023

for 15 students from Liceo Pacinotti, Cagliari, Italy. Members from ALICE, ATLAS, CMS and LHCb took part in a "Live" from the CERN Control Centre after the end of the heavy-ion run and answered

During International Masterclasses 2023, 33

sessions of ALICE masterclasses took place; these

included 3 sessions of special masterclasses for



escape room was created at the University of Jyváskylá in Finland and was visited by high-school

Visits to the ALICE

exhibition have been

taking place all year

round; visits to the

installations were done

when there were no

beams. Among the

visitors there were

many artists from the

underground

arts@CERN



Australia - 2023

Australia Representative in IPPOG - Jackie Bondell

In 2023, Australia's activities aligned with IPPOG goals revolved around four areas:

1. Student Engagement: Delivery of school partnership programs schools

- in regional and rural locales 2. Teacher Programs: Leading of workshops about particle physics at national education conferences. 3. Public Outreach: Major public
- events such as the National QDM Road Trip, he Exmouth Eclipse, and
- 4. IPPOG Awareness: IPPOG updates at the Lepton-Photon Conference.

A major outreach initiative aligned with the mission of IPPOG is the National Quantum and Dark Matter Road Trip as part of Australia's National Science Week. The 2023 road trip visited 18 schools and delivering 12 public events across remote and regional Australia. By the end of the event, road trippers had reached more than 1,600 people at schools,



I Left: The ODM students at Winton State School in the

Right: IPPOG's Bondell leading a gravity demo

Education Programs: Bottom Left: Uni Melbourne's Han No. leads a lesson on Dark Matter for students at the regional Stawell Secondary School in Victoria. Bottom Right: Students and teachers learn using CERN Mystery Boxes as part of a STEM workshop in

Public Outreach: Below Right: As part of the education

Dark Matter and Diversity in Science.

talk as part of the Spooktacular Space

program for a total solar eclipse cruise in

Below Left: CDMPP's Renee Key gives a

Western Australia, CDMPP hosted talks on

Right: Article published in the SA Teachers Association Journal

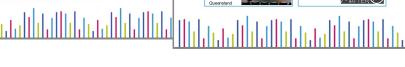


Centre of Excellence for Dark Matter Particle Physics (CDMPP), based at the University of Melbourne, supports IPPOG in Australia.





MEMBER REPORT 2023





Starting from January (until April 2025) you have the time to prepare and send us the new annual report 2024.

Link to the folder will be shared to the Representative in January 2025.



thanks