



International Particle
Physics Outreach Group

International Particle Physics Outreach Group

Update on the IPPOG activities

Roumyana Hadjiiska, Bulgarian Academy of Sciences - INRNE
(On behalf of the IPPOG Collaboration)

Bulgarian teacher program
CERN, July 2024



The IPPOG Collaboration

International Scientific Collaboration

- Active researchers with experience in education & public engagement
- Experts in communication & education

Global Network

- 41 members: 33 countries, 7 experiments, 1 intl lab (CERN)
- 2 associate members: 2 national labs (DESY, GSI)

Organise Global Activities

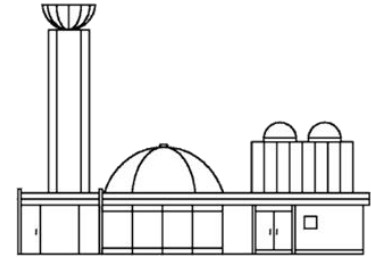
- International Particle Physics Masterclasses
- Global Cosmics Portal
- World-Wide Data Day, International Cosmics Day

Support Local Activities

- Sharing of expertise, best practices, material database
- Resources to support public engagement, kick-start activities

<http://ippog.org> [Find us in the web](#)
<http://facebook.com/ippog>
<http://facebook.com/groups/friends.ippog>
<http://twitter.com/ippogOrg>
<http://instagram.com/ippogOrg>
<https://www.tiktok.com/@ippogorg>
ippog-friends@cern.ch





България е член на [IPPOG](#) от 2021 г.

(**International Particle Physics Outreach Group**)

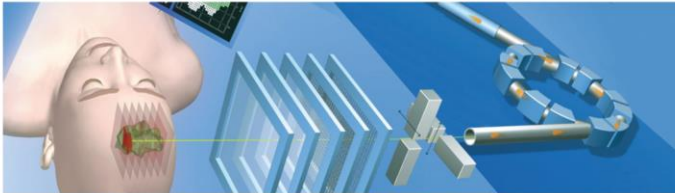
International Masterclasses ([IMC](#)) – част от програмите, предлагани от IPPOG



IPPOG – International Masterclasses

physicsmasterclasses.org

Next edition: 2025 from ~11 February to a few days before (catholic) Easter (31 March)



Particle Therapy MasterClass



- Home
- Information for High School Students
- Information for Teachers and Educators
- Information for Institutes and Physicists
- Schedule
- Intl. Day of Women and Girls in Science
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International Masterclasses
19th International Masterclasses 2023





IPPOG – Global Cosmics

Projects for High School Students

Astroparticle physics combines particle physics with astronomy

- Cosmic rays measurements
- Fascinating world of the exploration of the universe
- Students become familiar with scientific work using modern measurement and analysis methods

International Cosmic Day

International Muon Week

ippog.org/global-cosmic-rays-portal

Finland	
France	   COSMIX
Germany	COSMIC@WEB 
Italy	 
Poland	CRED 
Japan	
Spain	 
Sweden	
Taiwan	QuarkNet-TW 
UK	 UNIVERSITY OF BIRMINGHAM  QuarkNet Cymru
USA	 QuarkNet



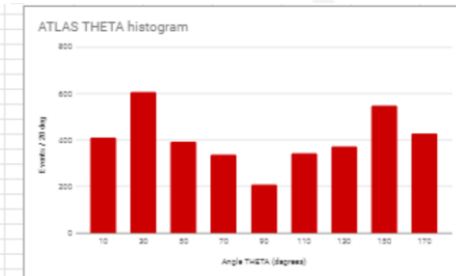
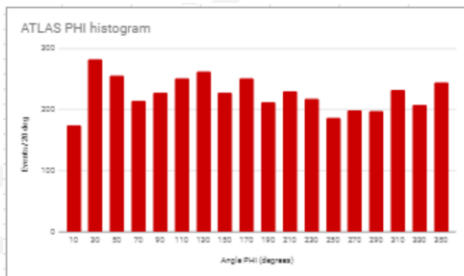
IPPOG – World Wide Data Day (W2D2)

November 2024 (24h)

- Participating groups: 42 in 11 countries – 6 from Bulgaria!
- for high school students, guided by physics teachers
- simplified measurement with data from ATLAS and CMS

Measurement

- Students worldwide analyse data from LHC events
- Data analysis at school, physics discussion in Video-Conference (Zoom)

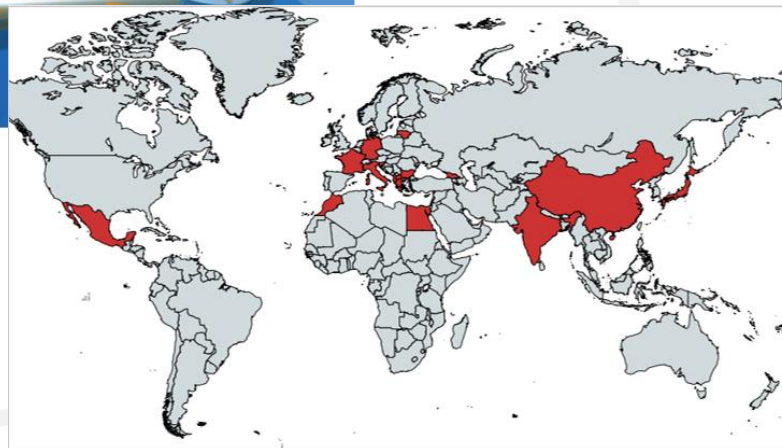
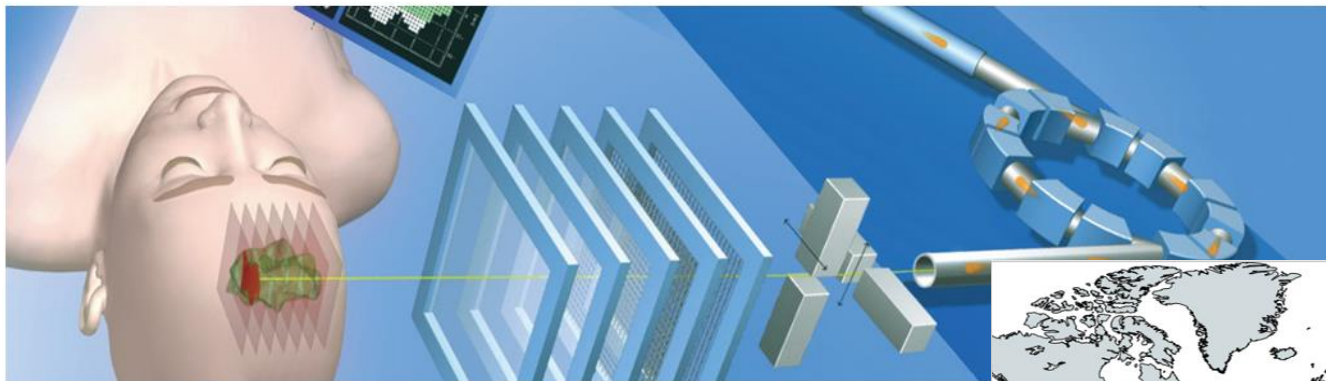


<https://quarknet.org/content/world-wide-data-day>





Particle Therapy Masterclasses



From Particle Physics to Particle Therapy

Find the class in the [web](#)

Полезни връзки

[Видео](#) – как се анализират данните в този урок (4 минути – на английски)

Таблица [CIMA](#)

[iSpyWebGl](#)

[WZH measurement](#)

[IPPOG](#)

[International Masterclasses](#)

[Quarknet](#)

[CERN Open Data Portal](#)