

WELCOME TO THE WORKSHOP

THE INTERNATIONAL REFERENCE IONOSPHERE AND NEQUICK

IMPROVING THE REPRESENTATION OF THE REAL-TIME IONOSPHERE

Trieste, 29 September - 10 October 2025

The Abdus Salam International Centre for Theoretical Physics (ICTP)



The Abdus Salam
International Centre
for Theoretical Physics



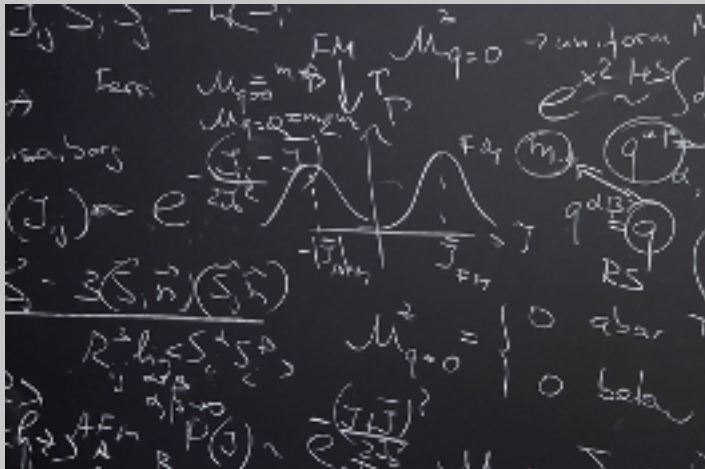
What is ICTP?

- Founded in 1964 by Nobel Laureate Abdus Salam to enhance international cooperation through science.
- Combines world class research with a unique global mission of building science capacity in the developing world.
- Governed by tripartite agreement between Italy UNESCO and IAEA.



What is ICTP?

Research



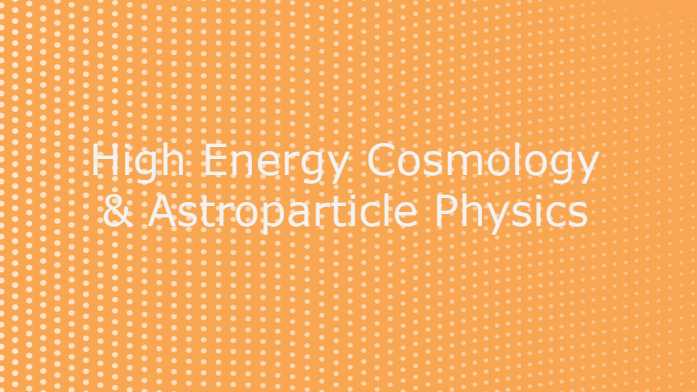
Education



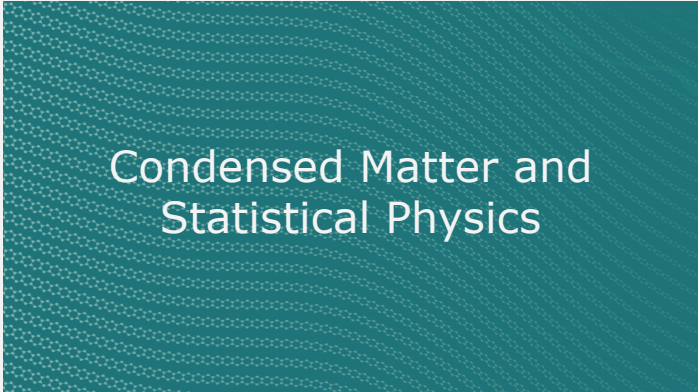
Outreach



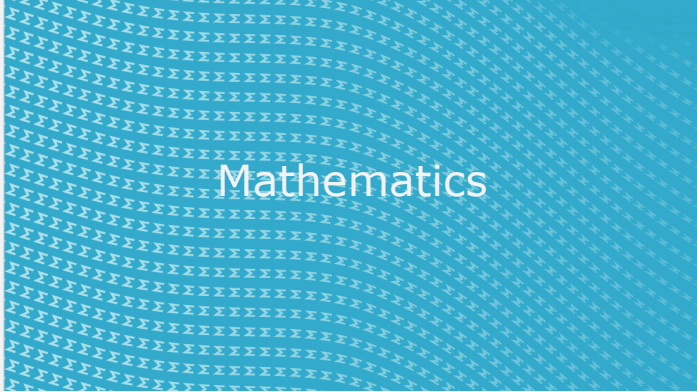
Research Sections



High Energy Cosmology
& Astroparticle Physics



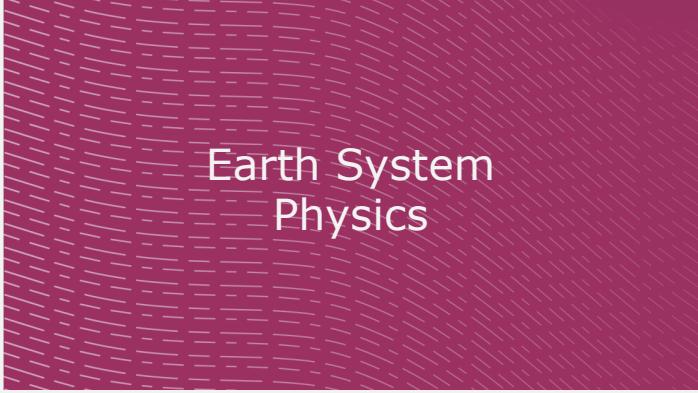
Condensed Matter and
Statistical Physics



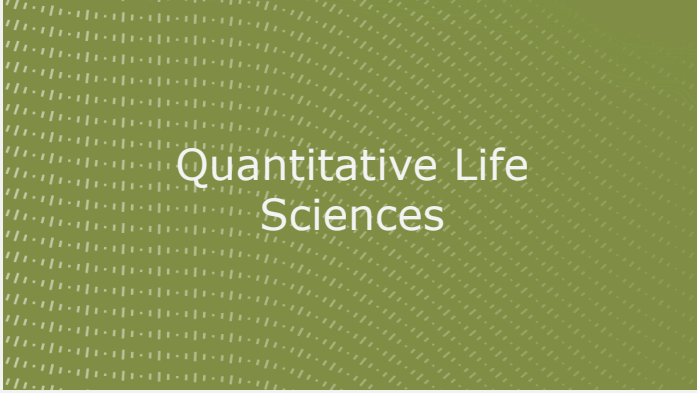
Mathematics



Science, Technology and
Innovation



Earth System
Physics

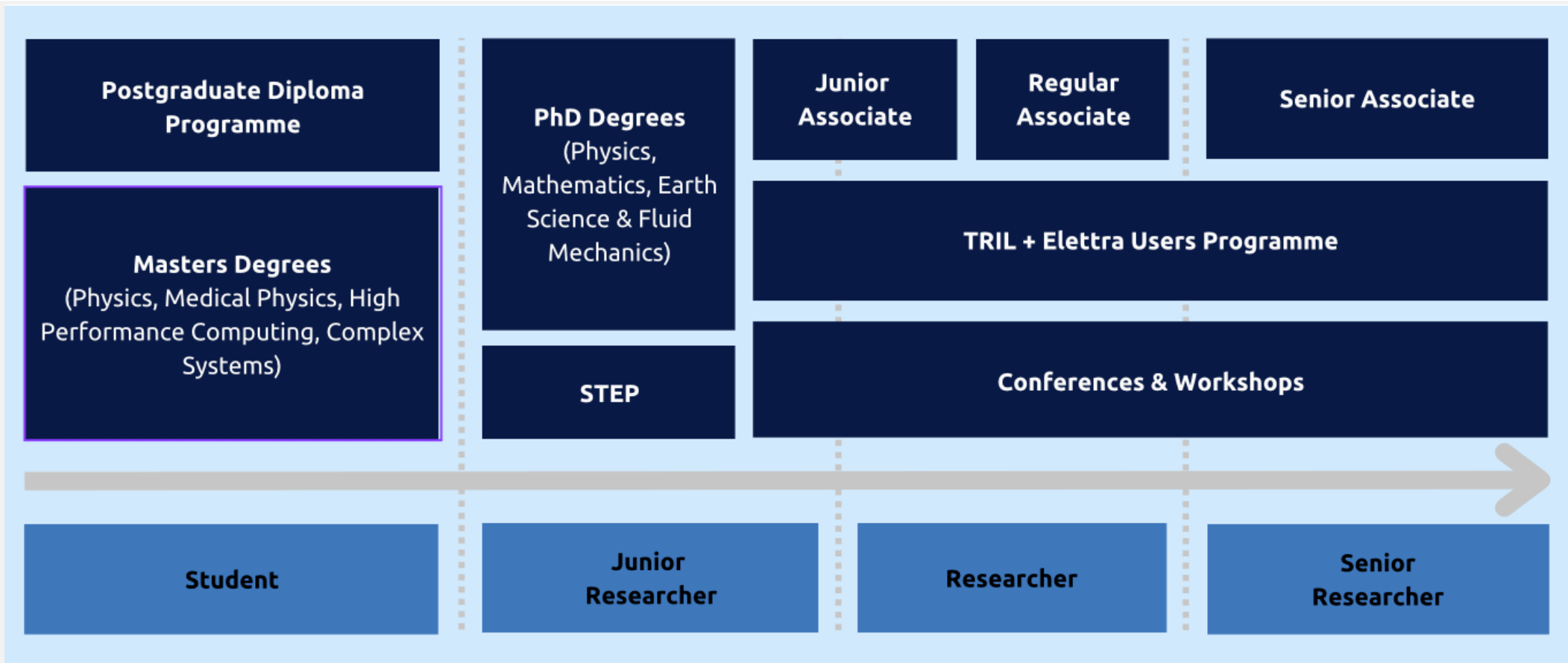


Quantitative Life
Sciences

Also: Sustainable Energy and High Performance Computing

ICTP Programmes:

Supporting Scientists in all Stages of their Careers



ICTP: An International Hub for Scientific Networking

- Organises more than **60** conferences & workshops each year.
- Welcomes up to more than **7,000** scientists from **145** nations each year.
- Attracts an additional **1,000-2,000** scientists per year through hosted activities.

TRAINING AT ICTP

ICTP Visiting Scientists: Where do they come from?

SINCE 1970:

More than

180,000
visits

from scientists from
188 countries around
the world

IN 2022:

29%
of visitors where
women

67%
of visitors where from
developing and least-
developed countries



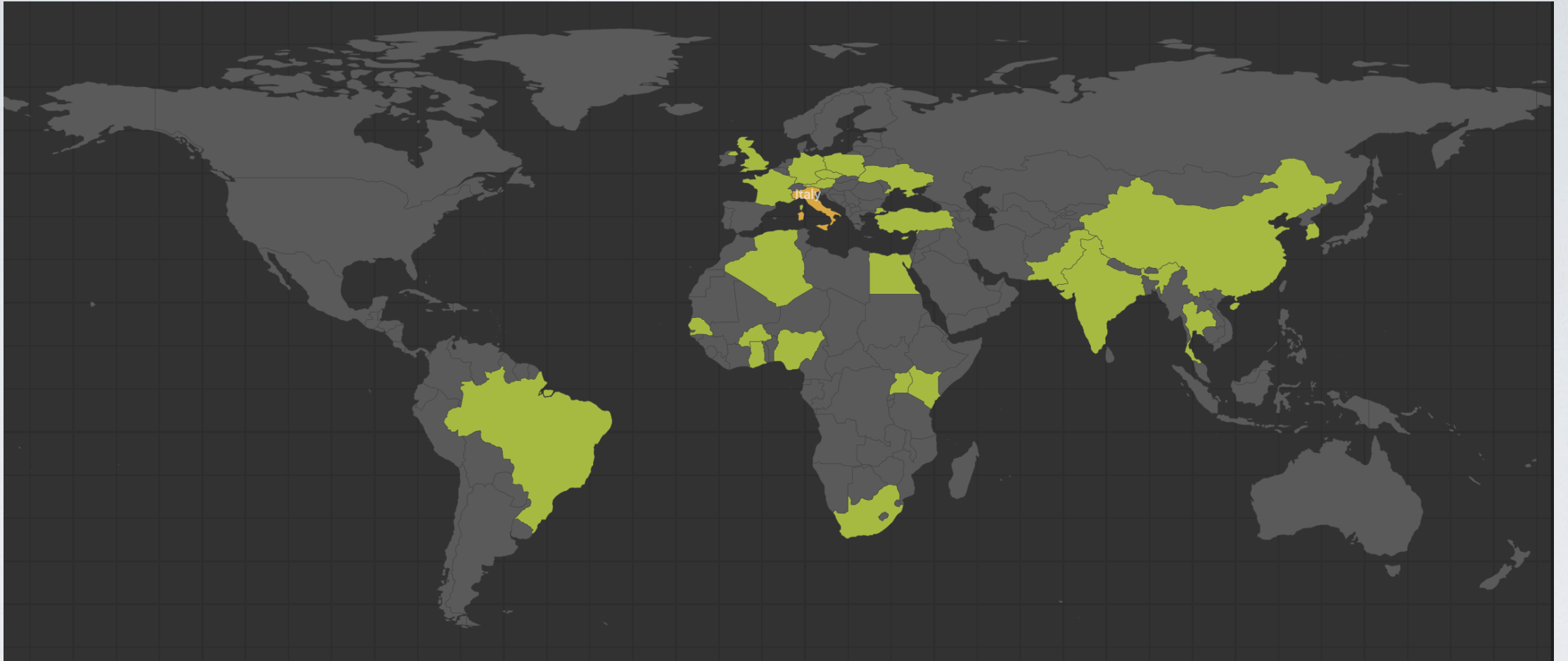
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WHERE ARE WE FROM?



33 Participants, 8 Speakers, 17 Experts, 4 Directors
We represent 27 Countries

WHERE ARE WE FROM?

Algeria, Austria, Brazil, Burkina Faso, China, Cyprus, Czechia, Egypt, France, Germany, Ghana, Italy, India, Kenya, Nigeria, Pakistan, Poland, Republic of Korea, Senegal, South Africa, Thailand, Türkiye, Uganda, Ukraine, United Kingdom, USA

PARTICIPANTS DISTRIBUTION

Junior	26	74%
Regular	8	23%
Senior	1	3%

Female	18	51%
Male	17	49%

Developing	25	71%
Least dev.	9	26%
Developed	1	3%

Africa	23	67%
Asia	9	26%
Europe	1	3%
Mid. East.	0	0%
Latin Am.	2	6%
North Am.	0	0%
Oceania	0	0%



The Abdus Salam
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The International Reference Ionosphere and NeQuick Improving the Representation of the Real-Time Ionosphere

TOPICS:

- Ionosphere monitoring and modelling
- Ionosphere real-time predictions and forecast
- Usage of ionospheric models
- Model evaluation and assessment
- Assimilation of data into ionospheric models
- Updating ionospheric models to real-time conditions

WORKSHOP AGENDA

- First week
 - Introductory presentations and tutorials
 - Team work

- Second week
 - Contributions by experts
 - Presentations by teams

<https://indico.ictp.it/event/10870/other-view?view=ictp timetable>

- *BILITZA Dieter*
- *GADIMOVA Sharafat*
- *HABARULEMA John Bosco*
- *NAVA Bruno*
- *JUNG Inae*
- *ALFONSI Lucilla*
- *CHOU Min-Yang*
- *GALKIN Ivan*
- *KRANKOWSKI Andrzej*
- *MIGOYA ORUE Yenca Olivia*
- *TRUHLIK Vladimir*
- *ZHANG Shunrong*