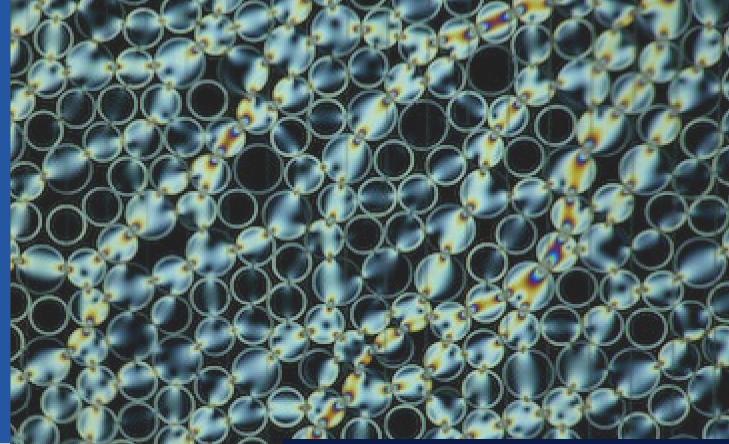
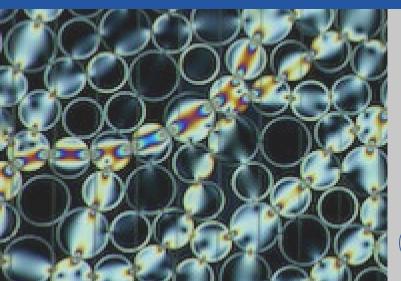
## ICTP

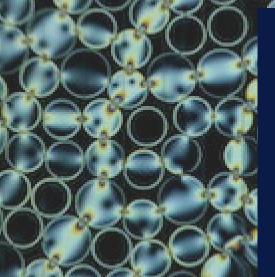
## Research & Training Programmes

Maria Liz Crespo MLAB, STI, ICTP mcrespo@ictp.it









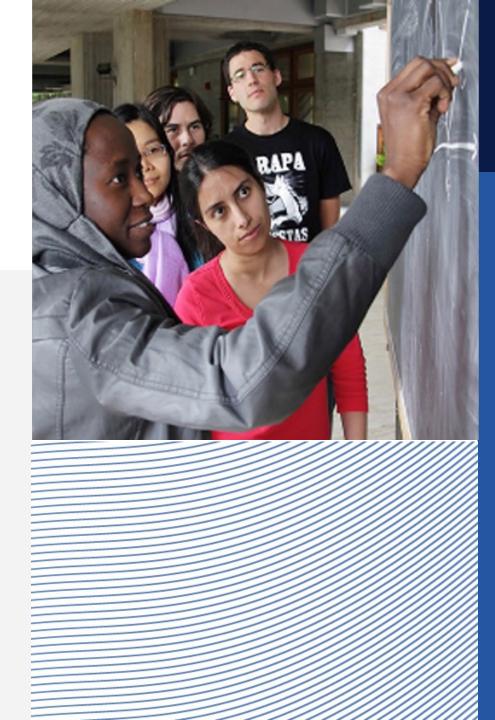


The Abdus Salam International Centre for Theoretical Physics

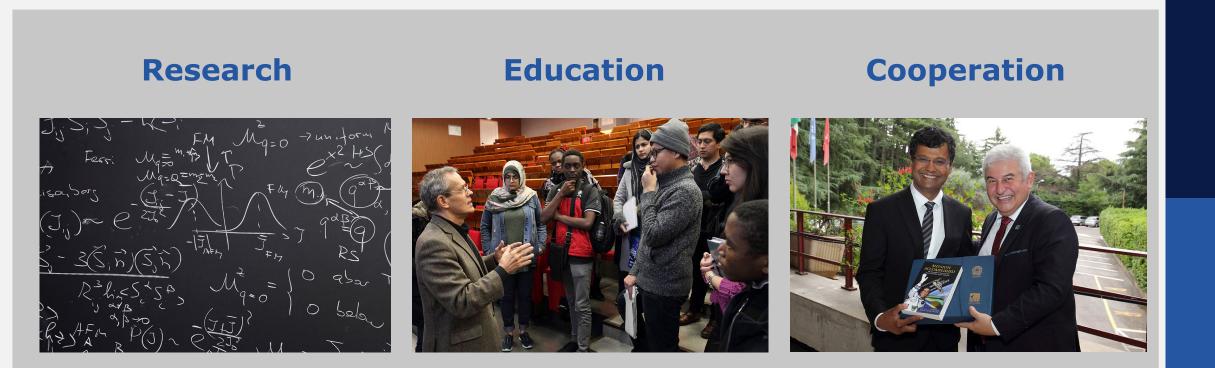


# What is ICTP?

- 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.
- Run by scientists for scientists

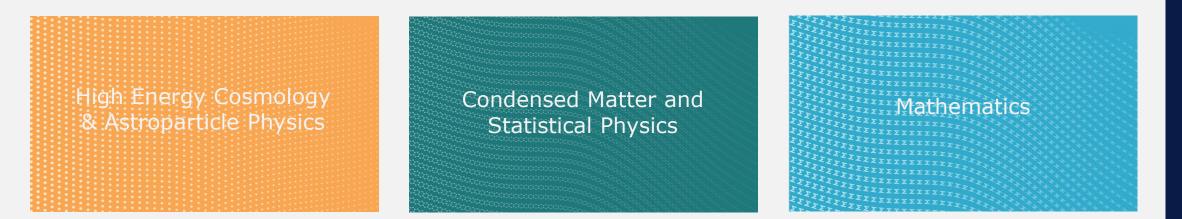


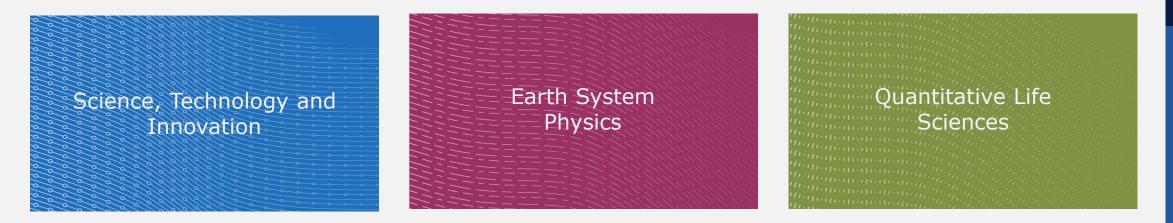
## What is ICTP?



#### **RESEARCH AT ICTP**

## **Research Sections**

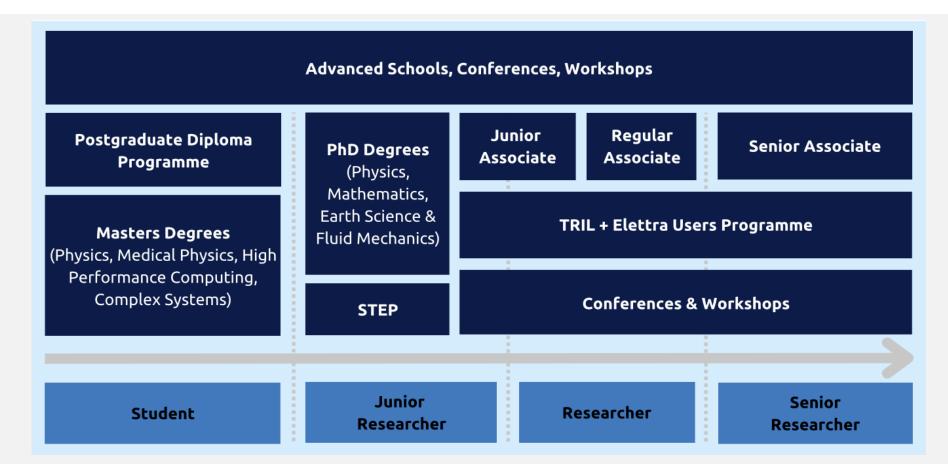




#### Also: Sustainable Energy and High Performance Computing

#### **EDUCATION & TRAINING AT ICTP**

## **ICTP Programmes:** Supporting Scientists in all Stages of their Careers



#### **EDUCATION AT ICTP**

## **ICTP's Postgraduate Diploma Programme** Preparing Young Scholars for PhD Studies

Since 1991:

- **1000+** Diploma graduates
- More than 75% earned or working toward PhDs



#### **EDUCATION AT ICTP**

## **ICTP Degree Programmes**

- Master in Medical Physics (with University of Trieste UniTS)
- Master in High Performance Computing (with SISSA)
- Master of Complex Systems (consortium of European universities)
- PhD in Physics (with UniTS)
- PhD in Physics and Mathematics (with SISSA)
- PhD in Earth Science and Fluid Mechanics (with UniTS)
- PhD in Engineering and Information Systems (with UniTS)

#### TRAINING AT ICTP

## ICTP/IAEA Sandwich Training Education Programme (STEP) PhD Students

- Fellowships for students enrolled in a PhD in their home countries. PhD awarded at their home institutes
- Support to visit ICTP or a collaborating institute for a threeto six-month stay each year for up to three successive years
- Fellows work on their PhD theses with their advisors at their home institutes and co-advisors at the hosting institutes

#### TRAINING AND RESEARCH AT ICTP

## **Training and Research in Italian Laboratories (TRIL)**

- Hands-on experience in world-class laboratories (including the ICTP Labs).
- Scientists having at least a university Master's Degree
- Fellowships range in length from a few months to one year (Maximum period: two years)

#### **RESEARCH AT ICTP**

## **Associate, Postdoc and Short-term Visitors** Working Together at ICTP

## **ICTP Associates**

- Junior: Scientists up to age 35
- Regular: Scientists from age 36 to 45
- Senior: Scientists from age 45 to 65
- 6-year appointment, during which associate visits ICTP for stays of between 30 and 60 days each

## **Postdoc fellowships**

• Check ICTP website for Postdoctoral opportunities (2-year appointment)

## **Short-term visits**

- Up to 3 months
- Agreement with ICTP faculty
  member

#### TRAINING AT ICTP

# **ICTP: An International Hub for Scientific Networking**

- Organises more than 60 conferences, schools & workshops each year (at ICTP and abroad)
- Welcomes up to more than 7,000 scientists from 145 nations each year
- Scientific Calendar

Please visit: https://www.ictp.it/home/scientific-calendar

#### ICTP SCIENTIFIC OUTREACH

## Scientific Capacity Building in Developing Countries External Activities Unit

### **ICTP Affiliated Centres**

- Institutes or university departments in developing countries with which ICTP has established a formal collaboration.
- Collaboration may focus on research, training, or a combination of both.
- Make use of ICTP programmes in order to have maximum impact in research or training in the region.

#### **Scientific Meetings and Research Networks**

- Regional scientific meetings in developing countries by offering financial assistance to the organisers of conferences, workshops, and schools.
- Scientific network projects proposed by institutes or individuals with common scientific interests who agree upon a well defined joint project that emphasises collaboration and the sharing of expertise and facilities.

#### TRAINING AT ICTP

## **ICTP Visiting Scientists:** Where do they come from?

#### **SINCE 1970:**

IN 2023:

More than

**180,000** visits

from scientists from **188** countries around the world 32%

of visitors were women

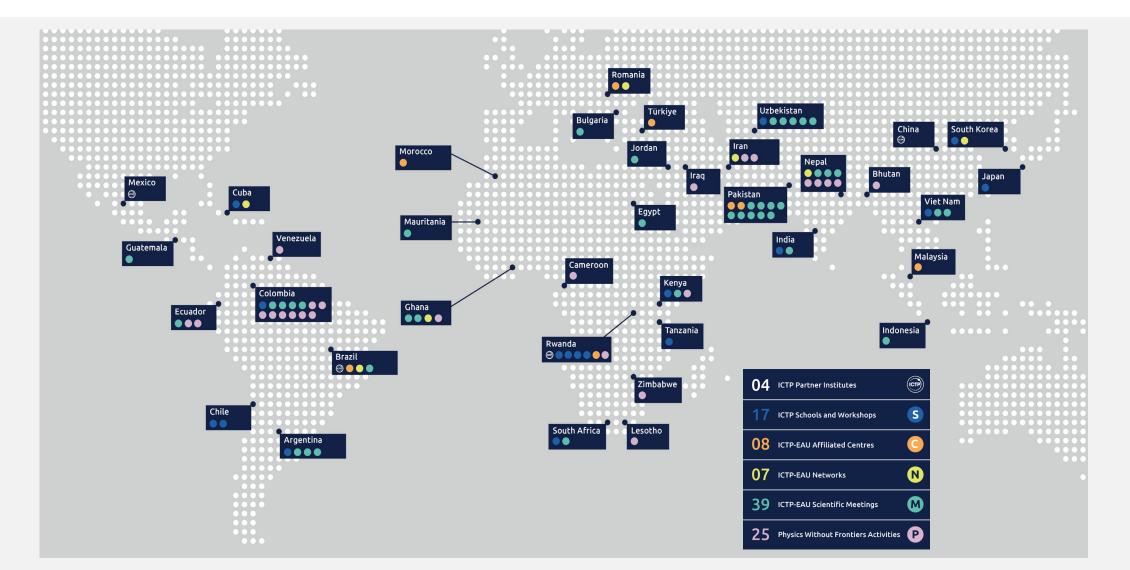


of visitors were from developing and leastdeveloped countries



#### **ICTP SCIENTIFIC OUTREACH**

## **ICTP Impact 2023**



"Over the years, ICTP has left a deep legacy in performing and promoting outstanding fundamental scientific research. In particular, it has had a major impact supporting science in developing countries."

STEPHEN HAWKING UNIVERSITY OF CAMBRIDGE

#### **ICTP TESTIMONIAL**

"Much good emanates from ICTP. Salam's vision of a facility that couples the doing of first-rate research with advanced scientific training has been overwhelmingly vindicated and validated."

**DAVID GROSS** 

NOBEL LAUREATE IN PHYSICS 2004 AND DIRECTOR OF THE KAVLI INSTITUTE FOR THEORETICAL PHYSICS

## Thank you!

