



The Abdus Salam
International Centre for Theoretical Physics



ICTP OVERVIEW





"Scientific thought is the common heritage of humankind."

Abdus Salam

ICTP founder Abdus Salam

- > ICTP is an institution that is run by scientists for scientists to support the best science possible, with special attention paid to the needs of scientists from developing countries





ICTP mission

Conducting research at the highest international standards, ICTP's mission is:

- > **Capacity Building:** To foster growth of advanced physics and mathematics studies, especially in developing countries
- > **International Collaboration:** To develop high-level scientific programmes and encourage international scientific exchange
- > **Research Excellence:** To conduct research at the highest international standards and maintain excellent research and training facilities



Quick facts

- > Founded in 1964 by Nobel Laureate Abdus Salam
- > Sponsored by tripartite agreement between Italy, UNESCO and IAEA
- > Attracts visiting scientists mainly from developing and transition countries
- > Provides training to improve scientific capacity in developing countries





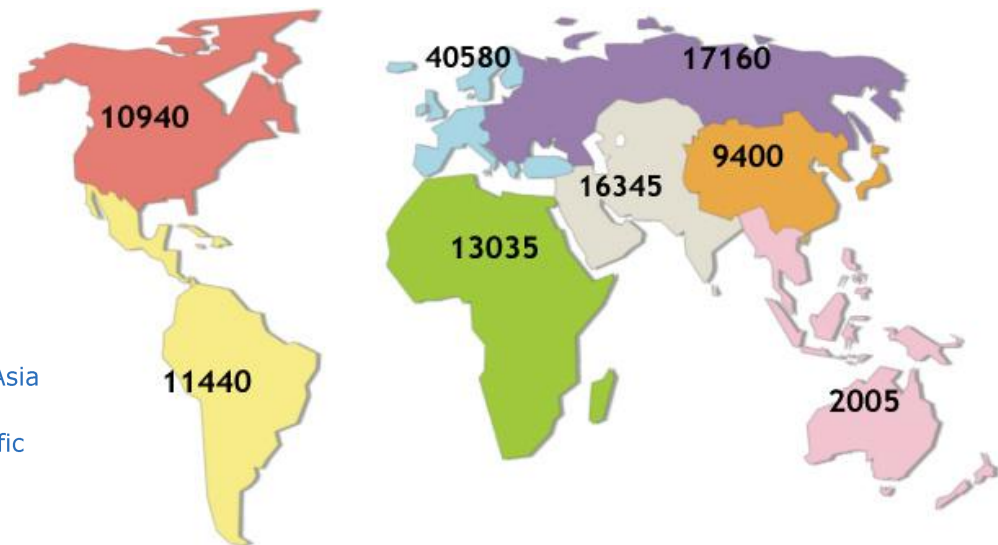
ICTP visiting scientists

- > More than 120,000 visits since 1970
- > 184 countries represented
- > 20% of ICTP visiting scientists are women



Number of visits by scientists from:

- North America
- Latin America
- Western Europe
- Eastern Europe
- Africa
- Middle East and South East Asia
- Far East
- South East Asia and the Pacific





Research at ICTP

- > High Energy, Cosmology and Astroparticle Physics
- > Condensed Matter and Statistical Physics
- > Mathematics
- > Earth System Physics
- > Applied Physics





Research at ICTP

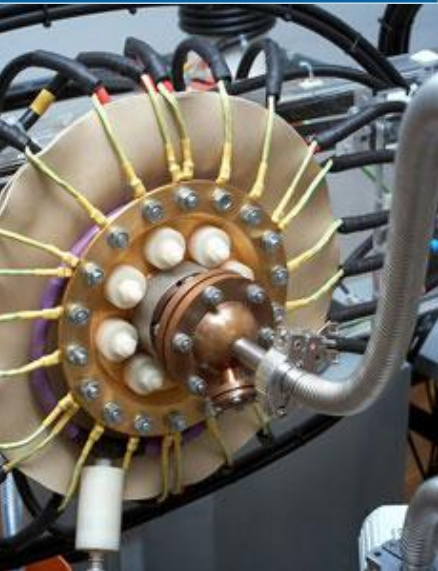
- > 30 staff scientists, 8 staff associates, 52 post docs and long-term visitors, 15 consultants
- > Research support
 - > ICTP Library holdings include 68,000 books, 340 journal subscriptions and 4,000 e-journals
 - > State-of-the-art computer equipment and support
 - > Publications and printing unit
 - > Open access to e-journals, and digital lectures
 - > *African Physical Review*





ICTP training and education

- > Provides training and skills to scientists from developing countries
- > Organises more than 60 conferences/workshops each year
- > Maintains multimedia iTunes U site
- > Welcomes 4,000 to 5,000 scientists from about 130 nations each year
- > Attracts an additional 1,000-2,000 scientists/year through hosted activities



ICTP training and education

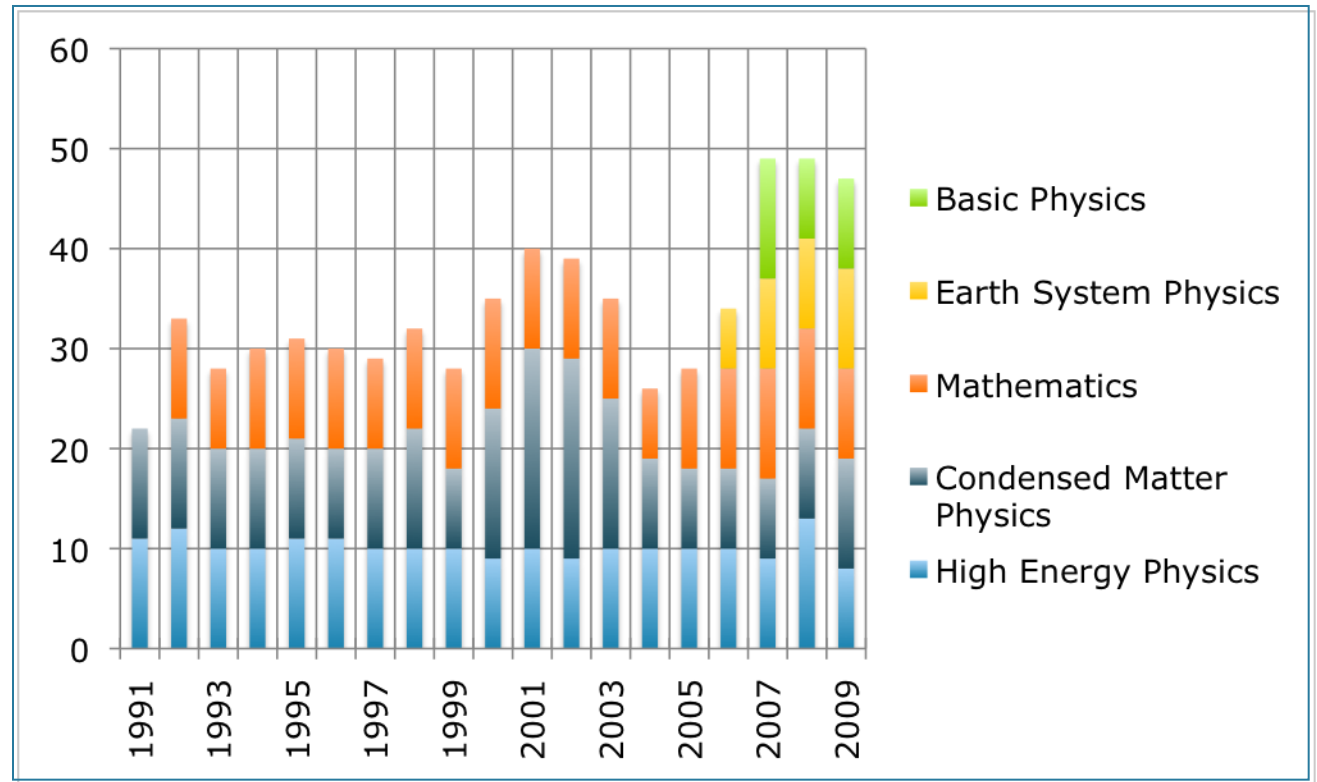
> Pre-PhD programmes

- Postgraduate Diploma Programme
- Postgraduate Diploma Programme in General Physics
- ICTP Sandwich Training Educational Programme



ICTP training and education

> Spotlight: Postgraduate Diploma Programme





ICTP Training and Education

> Degree Programmes

- PhD in Physics or Mathematics
- PhD in Fluid Mechanics
- Laurea Magistralis (Master's) in Physics





ICTP training and education

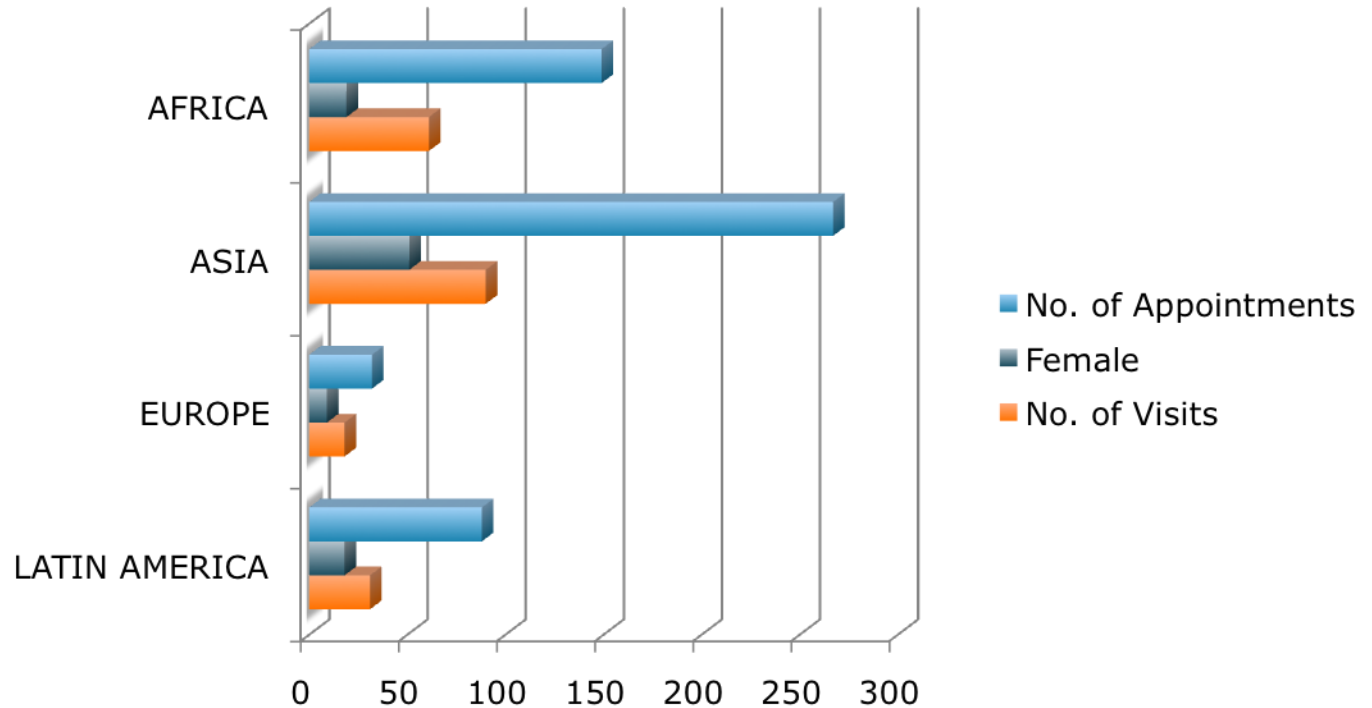
- > Scientific career support:
 - > ICTP visitors' programme
 - > Associate and Federation Schemes
 - > Training and Research in Italian Laboratories





ICTP training and education

> Spotlight: Associateship Scheme 2010





ICTP training and education

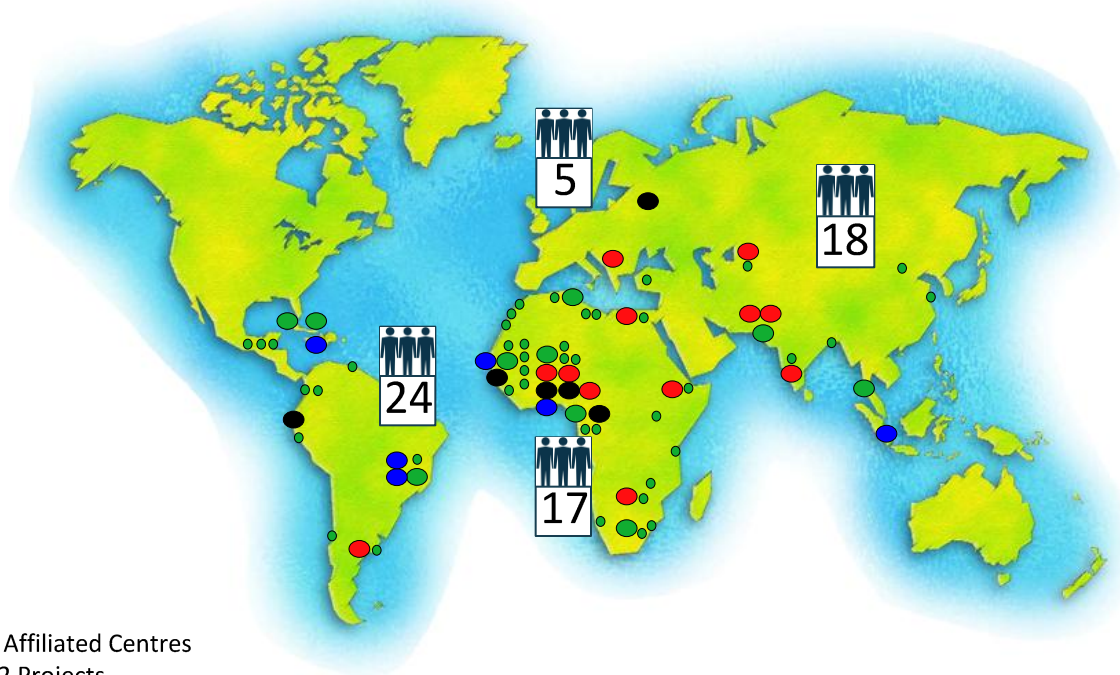
> Office of External Activities

- Supports scientific activities in developing countries
 - PhD courses
 - Scientific meetings
 - Regional networks
 - Affiliated centres



ICTP Training and Education

> Office of External Activities in 2010



- 6 Affiliated Centres
- 12 Projects
- 10 Networks (● sub nodes throughout the continents)
- 5 Visiting Scholars
- Number of Scientific Meetings in Africa, Asia, Europe, Latin America



TWAS the academy of sciences for the developing world

- > TWAS represents the best of science in developing countries. Its main mission is to promote scientific excellence and capacity in the South for science-based sustainable development.
- > Recognize, support and promote excellence in scientific research in the developing world;
- > Respond to the needs of young scientists in S&T-lagging developing countries;
- > Promote South-South and South-North cooperation in science, technology and innovation;
- > Encourage scientific research and sharing of experiences in solving major problems facing developing countries.





Thank you!

**For more information visit:
www.ictp.it**



Workshop on Climate change in Mediterranean and Caribbean Seas: Research experiences and new scientific challenges

**CIIFEN Headquarters,
Guayaquil, Ecuador, May 8th – 11th 2012**

Thanks to our Sponsors and Co-organizing
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- CIIFEN staff: Cinthya García, Evelyn Ortiz,
Victor Hugo Larrea and Andrea Freire

