



The Abdus Salam
International Centre
for Theoretical Physics



**ICTP: a successful model
of international collaboration**



A successful model of international collaboration

- Leading **global** institution for scientific research and education
--- Emphasis on developing countries ---
- Founded in **1964** by Nobel Laureate **Abdus Salam**
- Since 1995, tripartite:
Italy (85%) + IAEA (10%) + UNESCO (1,5%)



RESEARCH



EDUCATION



OUTREACH

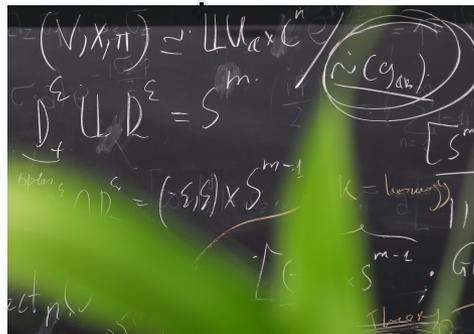


1964



High Energy, Cosmology & Astroparticle Physics

1974



Mathematics

1986

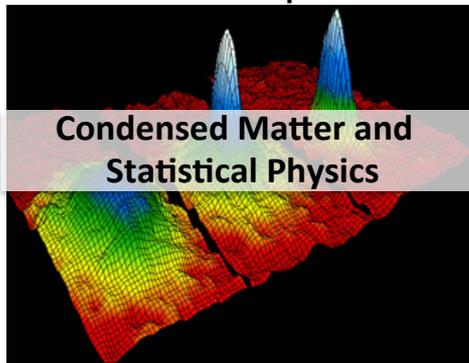
1990

1998

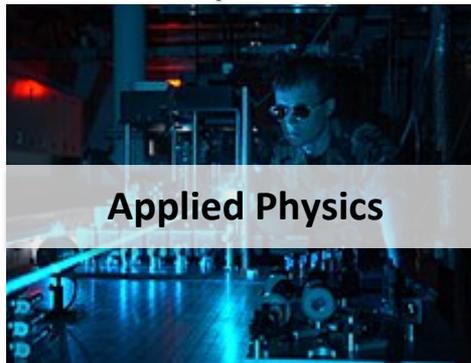


Earth System Physics

2014



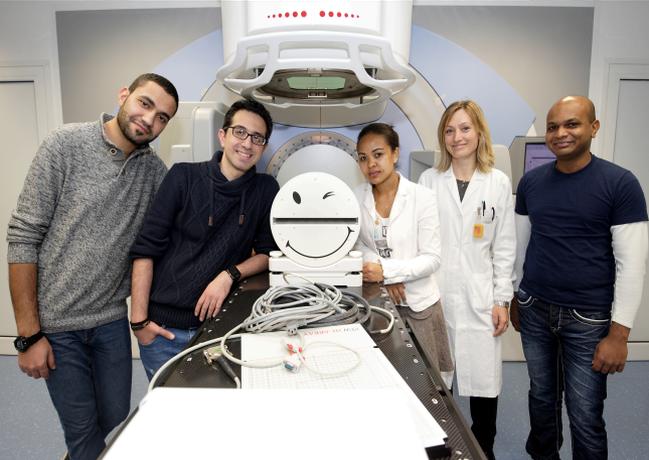
Condensed Matter and Statistical Physics



Applied Physics



Quantitative Life Sciences



- Postgraduate Diploma Programme
- STEP (Sandwich PhD)
- PhD in main research areas
- Masters: **Medical Physics, HPC, Complex Systems**



Fighting the “Brain Drain”

**1964: Associates and Federation Schemes
Programmes at ICTP and developing countries:
conferences, workshops, schools**

1983: Training & Research in Italian Laboratories (TRIL)

1985: Office of External Activities (OEA)



Also: ICTP hosts TWAS, IAP, OWSD

ICTP organizes **conferences, schools and workshops**:
each year ~ **60** at ICTP and ~ **20** in developing countries

Half of them on subjects related to main research areas,
the rest on many topics:

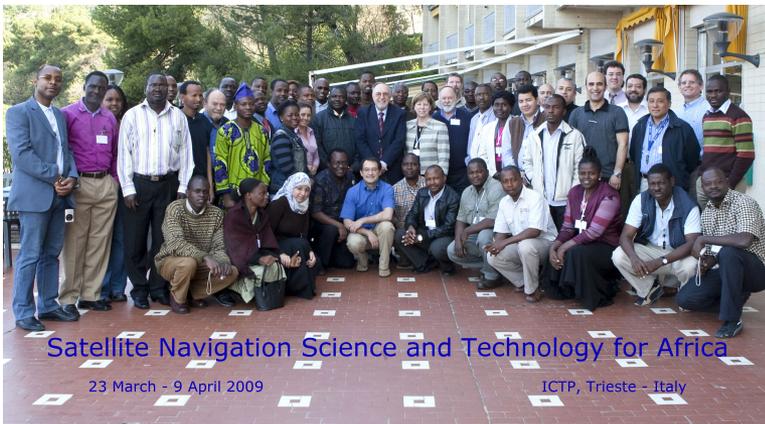
- *medical physics*
- *optics*
- *nano physics*
- *plasma physics*
- *electronics*
- *telecommunications*
- *GNSS*
- *aeronomy*
- *e-learning*
- *entrepreneurship*
- *nuclear physics (IAEA)*
- *teacher training*
- *3-D printing*



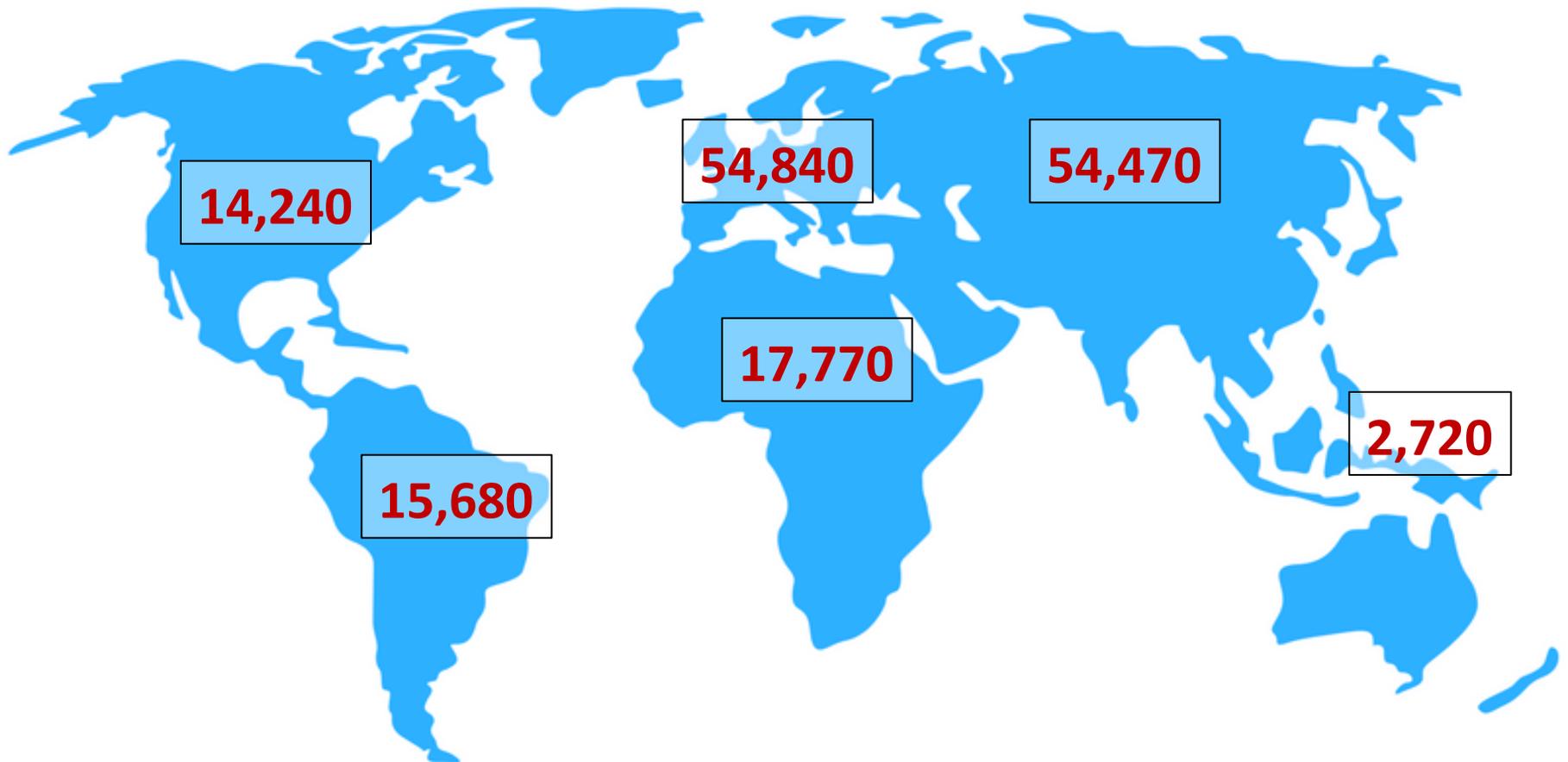
from 1982 a series of activities in subjects related to this Workshop:

- Autumn Course on Geomagnetism, the Ionosphere and Magnetosphere, 21 Sep.- 11 Nov. 1982
- Spring College on Geomagnetism and Aeronomy, 2-27 Mar. 1987
- Workshop on Atmospheric Interactions: Downward and Upperward coupling in the Middle and Upper Atmosphere, 5-16 Feb. 1996
- School on Physics of the Equatorial Atmosphere, 24 Sep. – 5 Oct. 2001
- International Advanced School on Space Weather, 2-19 May 2006
- Workshop on the Future of Ionospheric Research for Satellite Navigation and positioning: its relevance for developing countries, 4-15 Dec. 2006
- Workshop on Satellite Science and Technology for Africa, 23 Mar. – 9 Apr. 2009

The first of a series of yearly activities carried out up to 2019 in partnership with Boston College and with the support of the UNOOSA ICG



Since 1970, over 150,000 scientists from **188** countries



ICTP's Impact: Partner Institutions

ICTP-south American Institute for Fundamental Reserach

Sao Paulo, Brazil (2012)

ICTP-Asian Pacific

Beijing, China (2017)

ICTP-East-African Institute for Fundamental Research

Kigali, Rwanda (2017)

Mesoamerican Centre for Theoretical Physics

Chiapas, Mexico (2014)



ICTP Supporting Women in Science

NUMBERS

In 2017 at ICTP:



55 postdocs → 33% female

5 120 visitors → 26% female



EVENTS

Career Development Workshop for Women in Physics from 9 to 13 October 2017, following two other workshops organized in 2013 and 2015

UN's International Day of Women and Girls in Science: three activities organized by ICTP



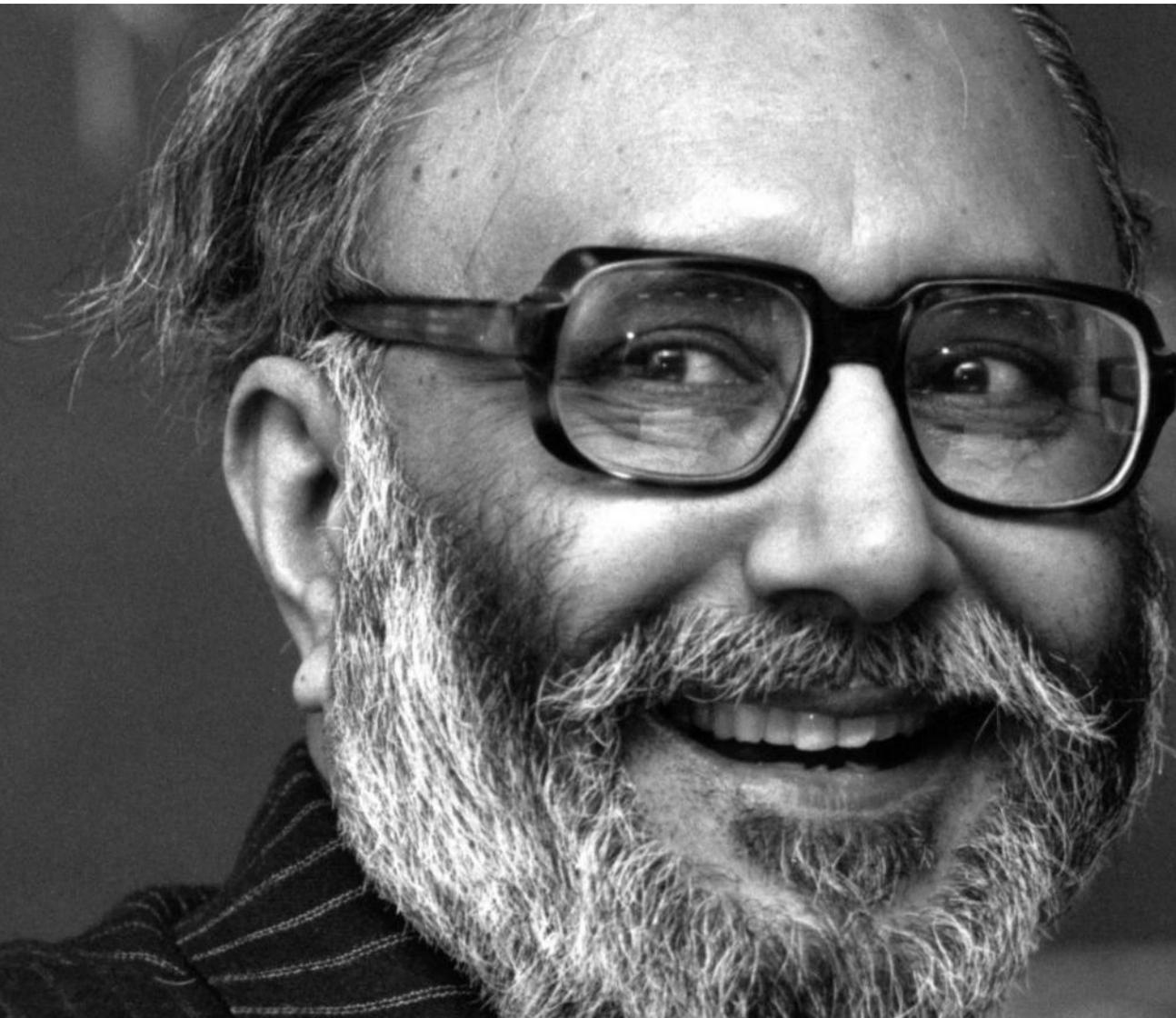
Career Development Workshop for Women in Physics



9 - 13 October 2017
Trieste, Italy

Further information:
Activity URL: <http://indico.ictp.it/event/7795/>
Email: am@ictp.it



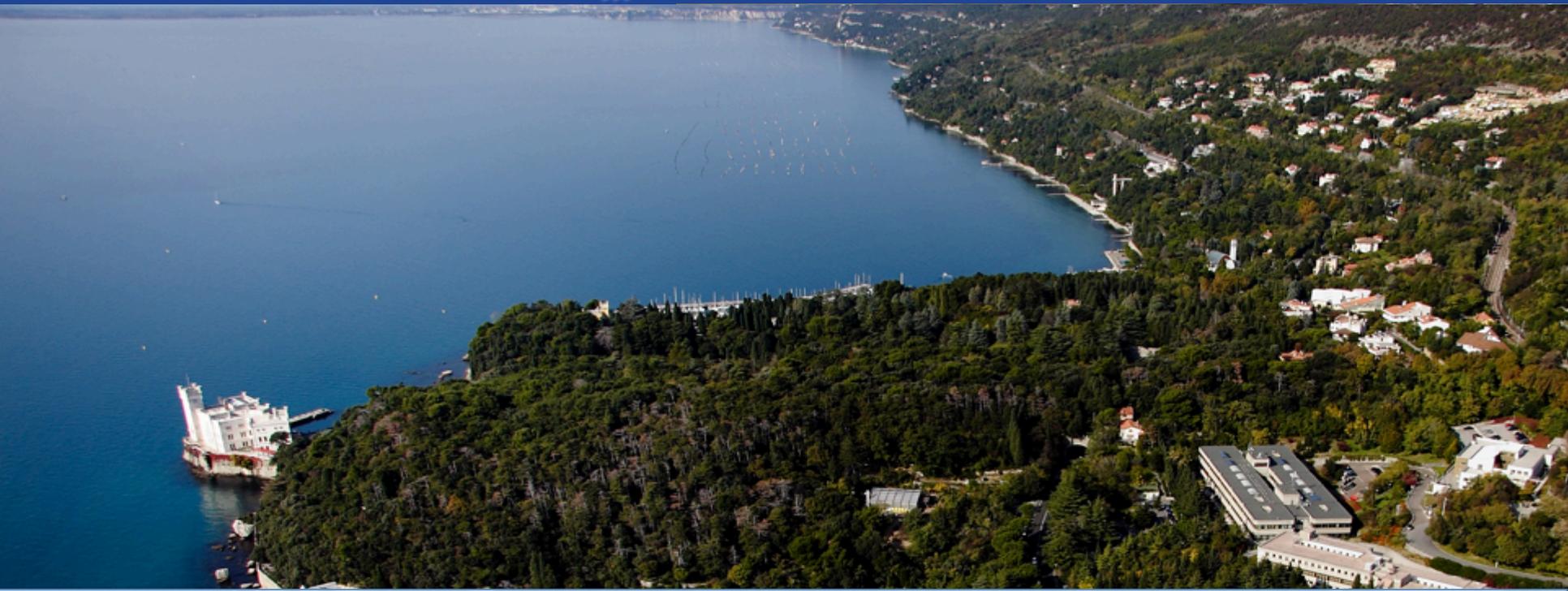


***"Scientific thought
and its creation is the
common heritage of
humankind."***

Abdus Salam



The Abdus Salam
**International Centre
for Theoretical Physics**



Thank you

