



The Abdus Salam  
International Centre for Theoretical Physics



## ICTP OVERVIEW



Bobby Acharya

ICTP | Strada Costiera 11 | 34151 Trieste - Italy | [www.ictp.it](http://www.ictp.it)



**"Scientific thought is the common heritage of mankind."**

*Abdus Salam*

ICTP founder Abdus Salam

- > ICTP is an institution that is run by scientists for scientists to support the best science possible in developing countries





## ICTP mission

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

- > To foster growth of advanced physics and mathematics studies in developing countries
- > To develop high-level scientific programmes and encourage international scientific exchange
- > To provide excellent research and training facilities





## Quick facts

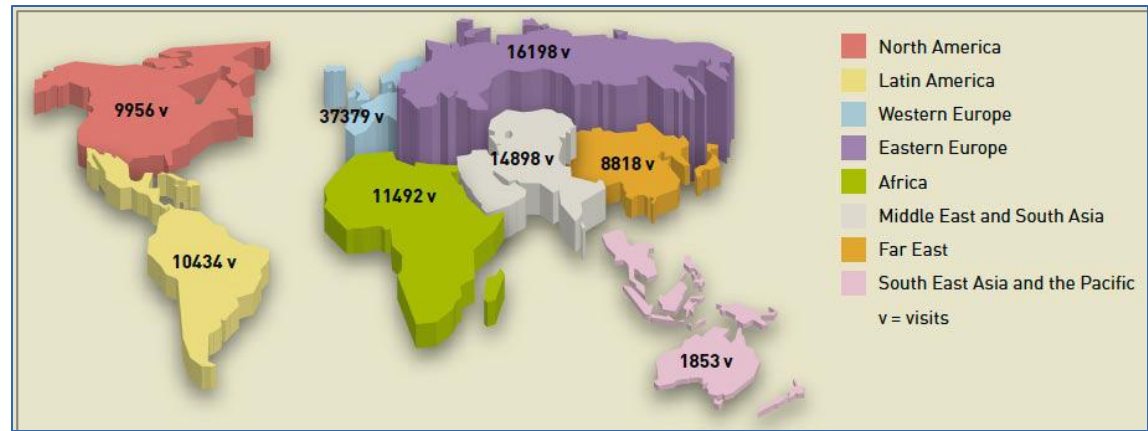
- > Founded in 1964 by Nobel Laureate Abdus Salam
- > Provides training to improve scientific capacity in developing countries
- > Supports in-house staff of world-class physicists and mathematicians
- > Sponsored by tripartite agreement between Italy, UNESCO and IAEA

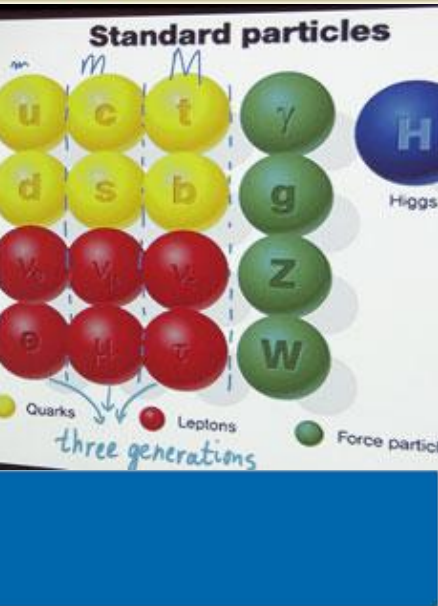




## ICTP visiting scientists

- > More than 100,000 visits since 1970
- > 184 countries represented
- > 20% of ICTP visiting scientists are women





## Research at ICTP

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





## Research at ICTP

- > 27 staff scientists, plus 85 post docs, staff associates, long-term visitors
- > Research support
  - > ICTP Library holdings include 64,000 books, 450 journal subscriptions and 3,500 e-journals
  - > State-of-the-art computer equipment and support
  - > Publications and printing unit
  - > Open access to e-journals, digital lectures
  - > *African Physical Review*

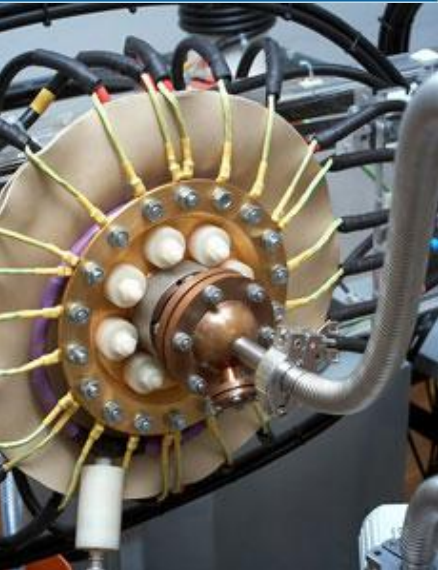


## ICTP training and education

- > Provides training and skills to scientists from developing countries
- > Organises more than 60 conferences/workshops each year
- > Welcomes 4000 scientists from about 130 nations each year
- > Attracts an additional 2000 scientists/year through hosted activities







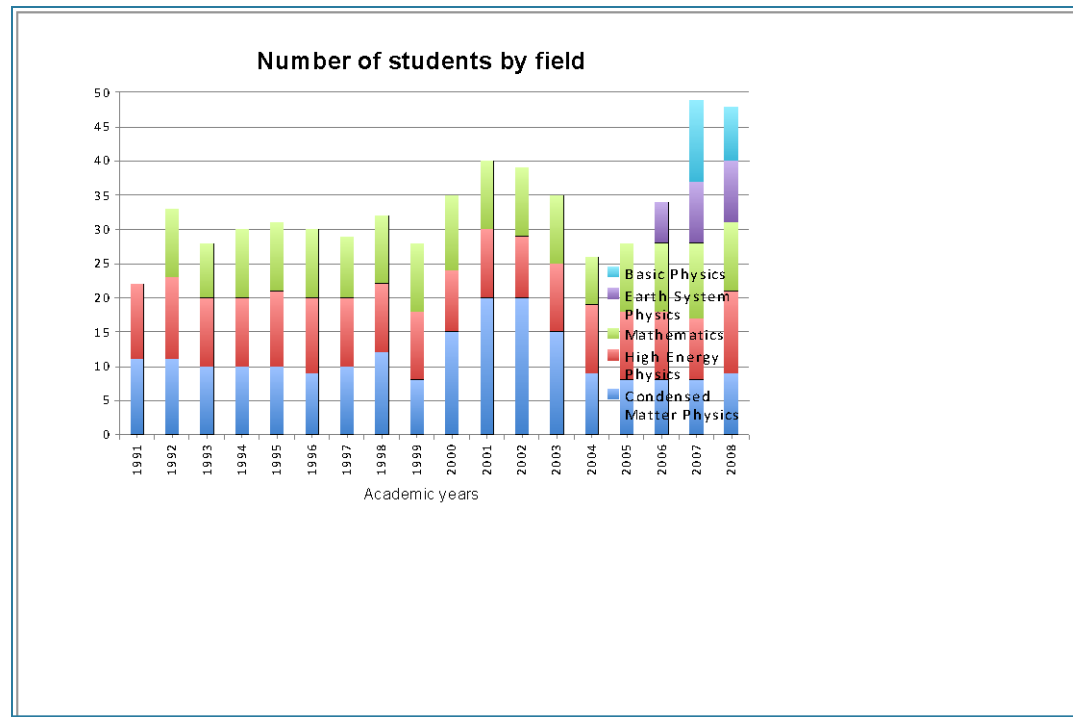
## ICTP training and education

- > Pre-PhD programmes
  - > Diploma Programme
  - > ICTP/IAEA Sandwich Training Educational Programme
  - > Joint Ph.D. programme with University of Trieste
  - > ICTP/University of Trieste Laurea Magistralis



## ICTP training and education

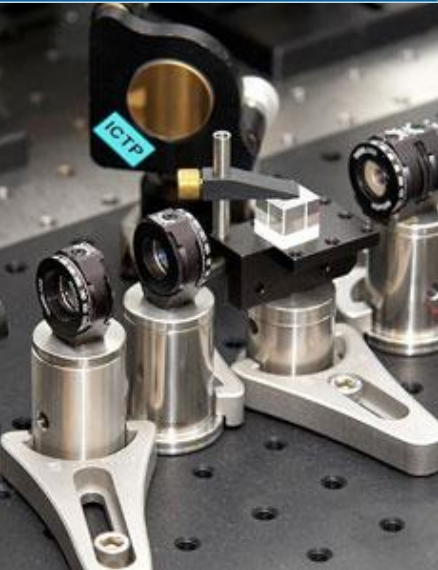
### > Spotlight: Diploma Programme 1991-2008





## ICTP training and education

- > Scientific career support:
  - > Associate and Federation Schemes
  - > Training and Research in Italian Laboratories
  - > ICTP visitors' programme
  - > Training at Elettra Synchrotron Light Laboratory
  - > SESAME Programme

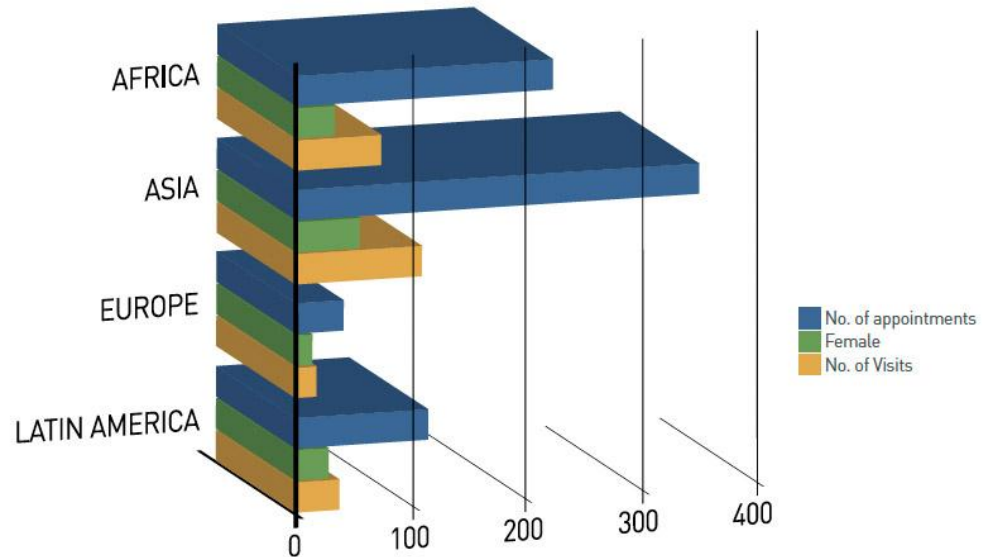




## ICTP training and education

### > Spotlight: Associateship Scheme

Geographical Distribution of Associate Members, 2008





## ICTP training and education

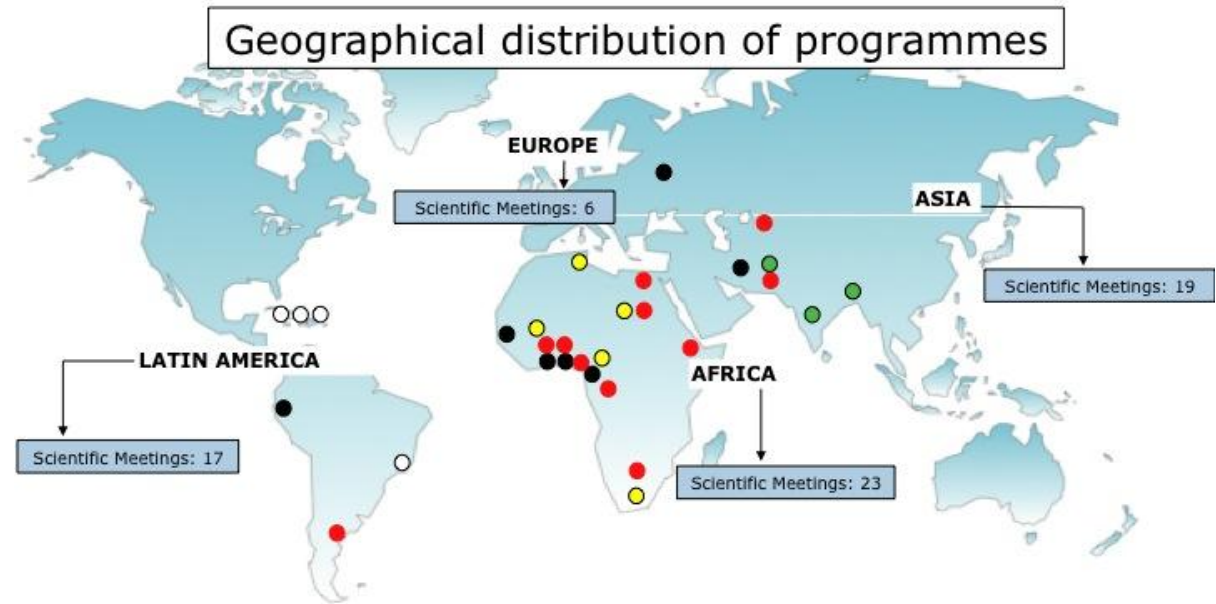
### > Office of External Activities

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



## ICTP Training and Education

### > Office of External Activities





## ICTP Prizes and Awards

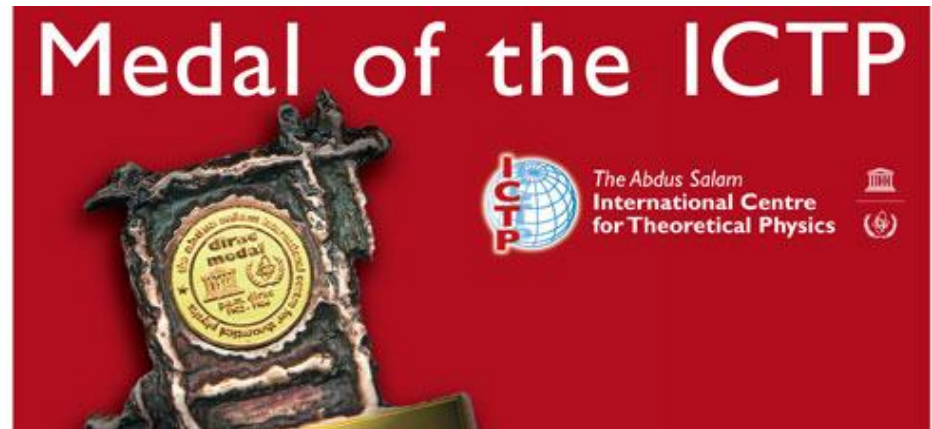
- > Dirac Medal
- > ICTP Prize
- > ICO/ICTP Gallieno Denardo Award
- > Ramanujan Prize



## Dirac Medal of the ICTP



P.A.M. Dirac  
1902 - 1984





**Thank you!**

**For more information visit:  
[www.ictp.it](http://www.ictp.it)**







## ICTP ATLAS Group

Started in 2006 by B. Acharya  
and M. Cobal  
(Udine)

We are a joint institute in  
ATLAS ie Udine+ICTP

Several students and postdocs  
have been involved

Worked mainly on methods to  
measure top quark pair  
production





## ICTP LHC Program

**Aims to work and support LHC  
physicists from developing  
countries**

**Workshops, schools, conferences**

**Support of ICTP Associates**

**Support from OEA**

**Support of students from Diploma  
program**

