



The Abdus Salam
International Centre
for Theoretical Physics



United Nations
Educational, Scientific and
Cultural Organization



IAEA
International Atomic Energy Agency

ICTP OVERVIEW





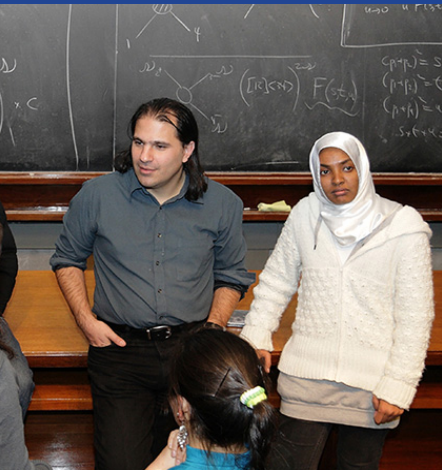
"Scientific thought is the common heritage of humankind."

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:

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





Quick facts on ICTP

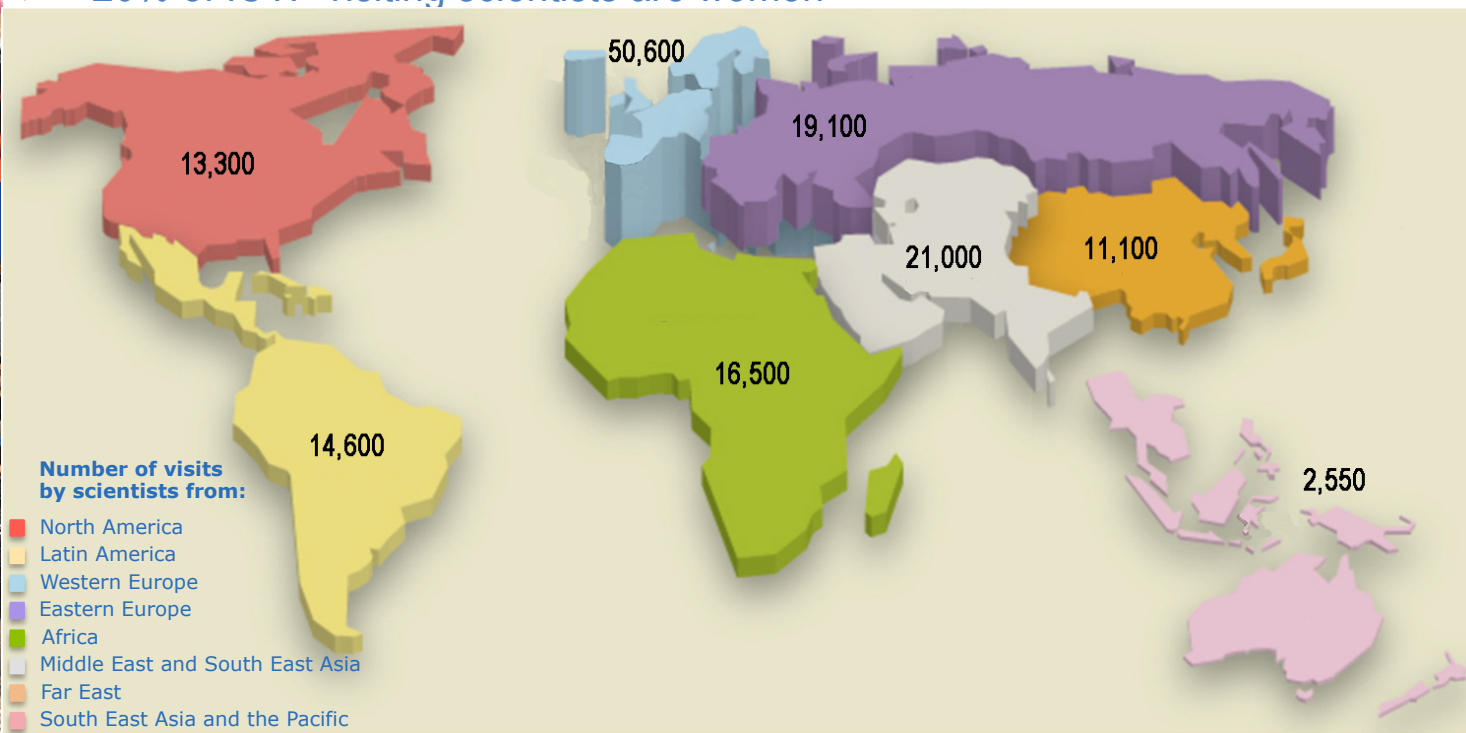
- Founded in 1964 by Nobel Laureate Abdus Salam
- Governed by tripartite agreement between Italy, UNESCO and IAEA
- Attracts visiting scientists mainly from developing and least developed countries
- Provides training to improve scientific capacity in developing countries

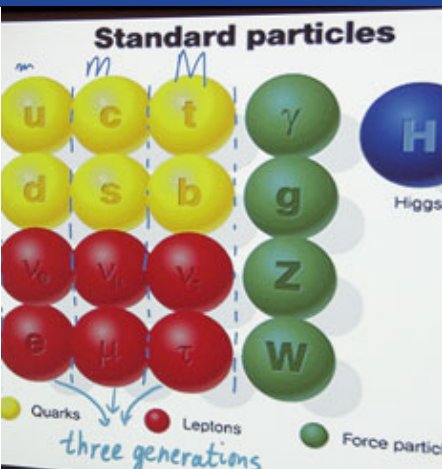




ICTP visiting scientists

- More than 145,000 visits since 1970
- 188 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
- Quantitative Life Sciences

New research areas

- Energy and Sustainability
- Computing Sciences





Faculty and research support

- 37 staff scientists, 16 staff associates, 98 post docs and long-term visitors, 25 consultants
- Research support
 - ICTP Library holdings include 72,000 books, 120 journal subscriptions and 3,177 e-journals
 - State-of-the-art computer equipment and support
 - Publications and printing unit
 - Open access to e-journals, and digital lectures
 - African Review of Physics



ICTP training and education

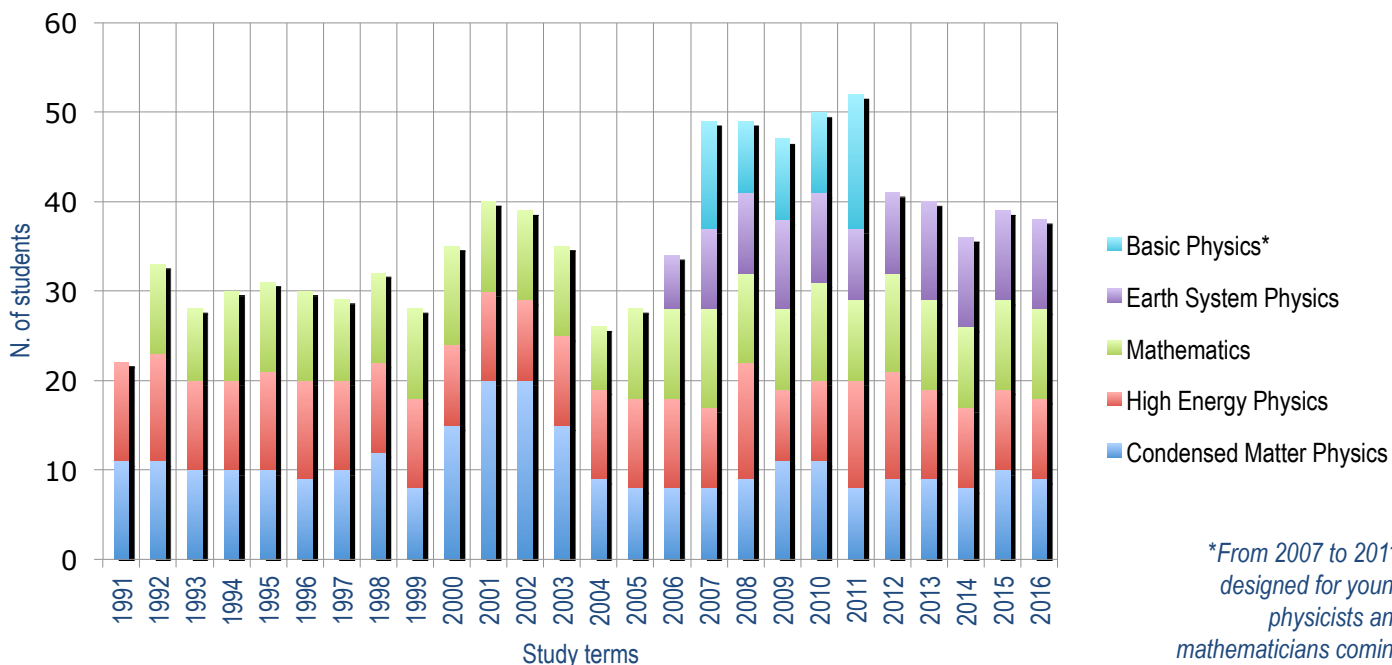
- Provides training and skills to scientists from developing countries
- Organises more than 60 conferences/workshops each year
- Welcomes 4,000 to 5,000 scientists from 135 to 145 nations each year
- Attracts an additional 1,000-2,000 scientists/year through hosted activities



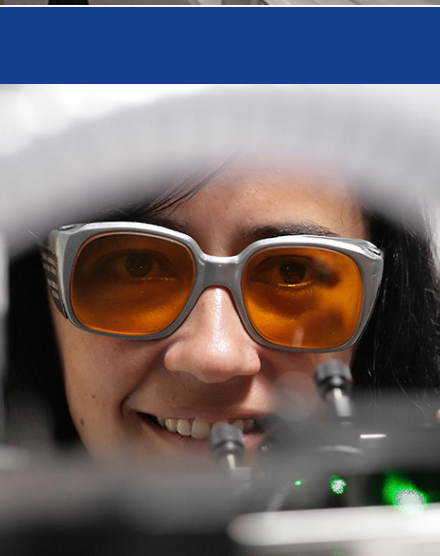


Pre-PhD Programme

➤ Postgraduate Diploma Programme 1991-2016

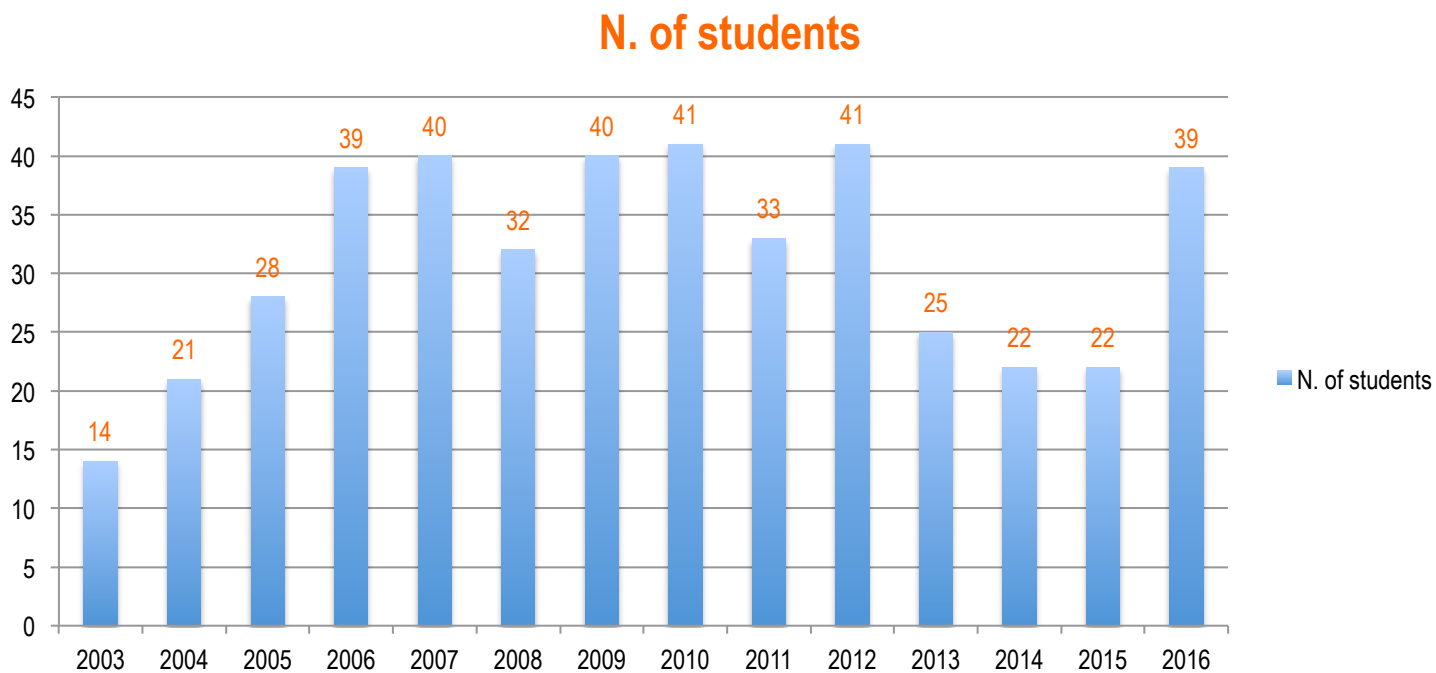


*From 2007 to 2011, designed for young physicists and mathematicians coming from sub-Saharan Africa



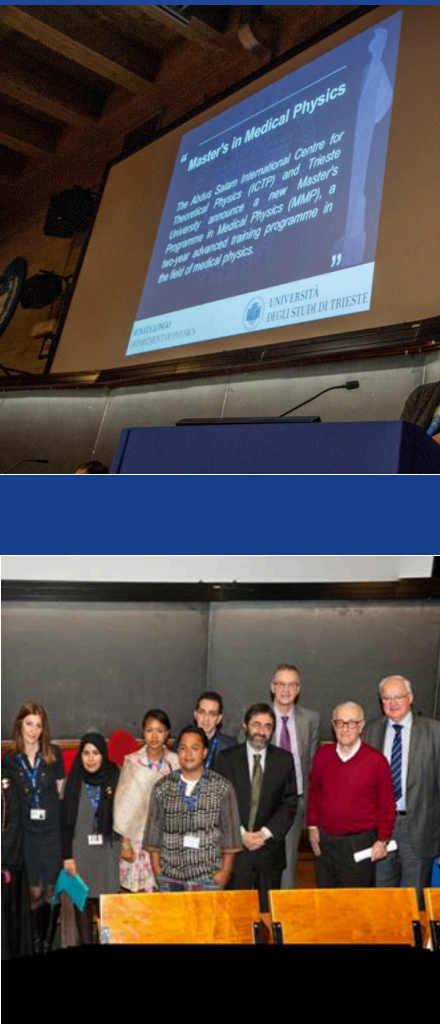
Pre-PhD Programme

➤ ICTP-IAEA STEP Fellows 2003-2016



Degree Programmes

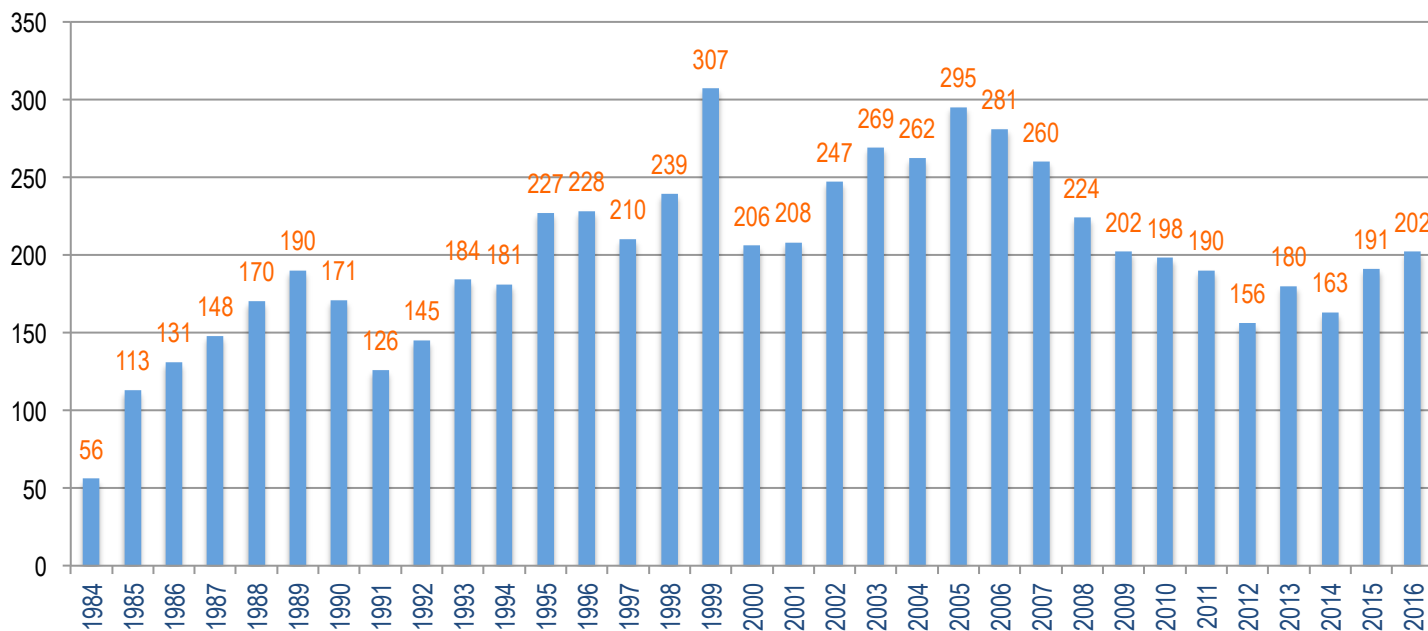
- PhD in Physics and Mathematics (with SISSA)
- PhD in Earth Science and Fluid Mechanics (with Univ. Trieste, OGS)
- Laurea Magistralis in Physics (with Univ. Trieste)
- Master's in Economics (with Collegio Carlo Alberto)
- Master's in Physics of Complex Systems (with SISSA, Politecnico di Torino)
- New in 2014: Masters in Medical Physics (with Univ. Trieste), Master's in High Performance Computing (with SISSA)





Career development

➤ Associateship Scheme, N. of visits 1984-2016*

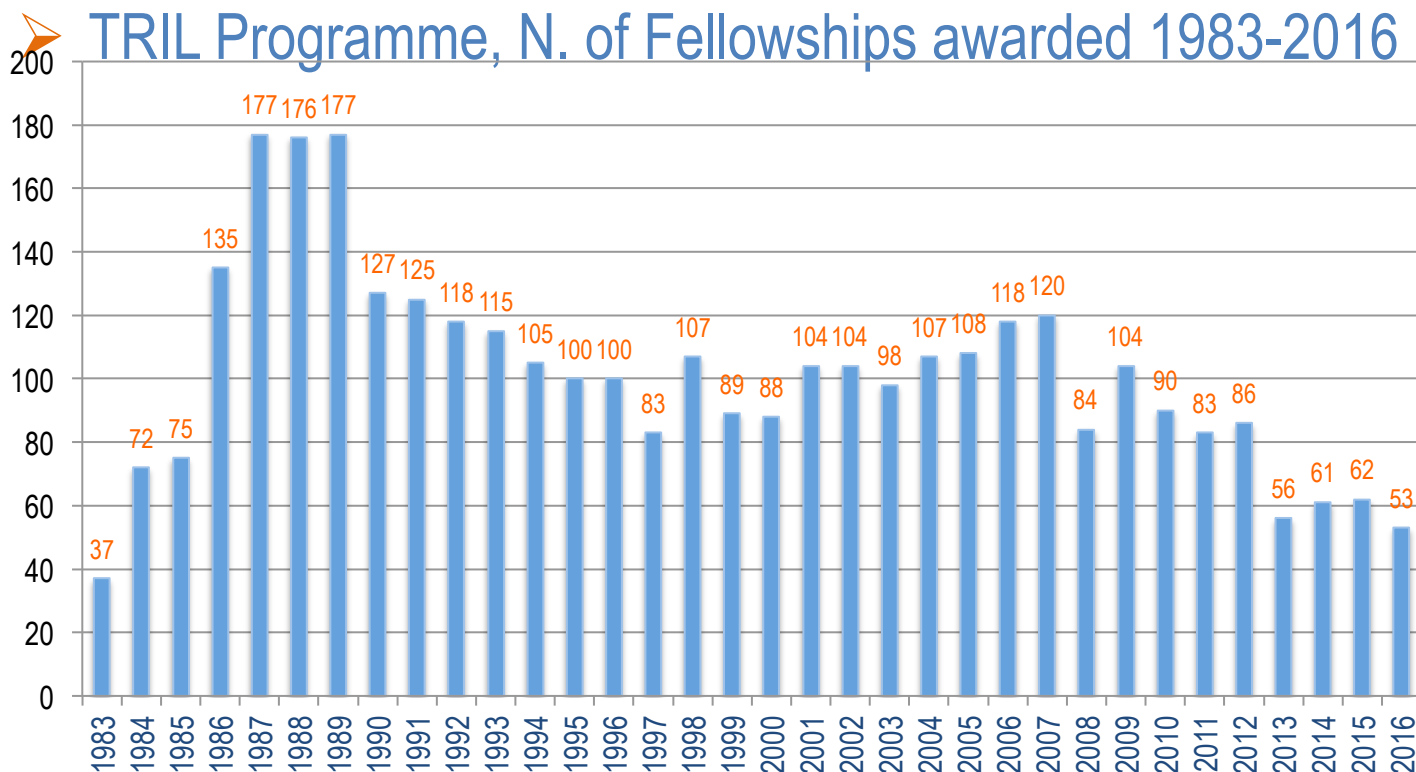


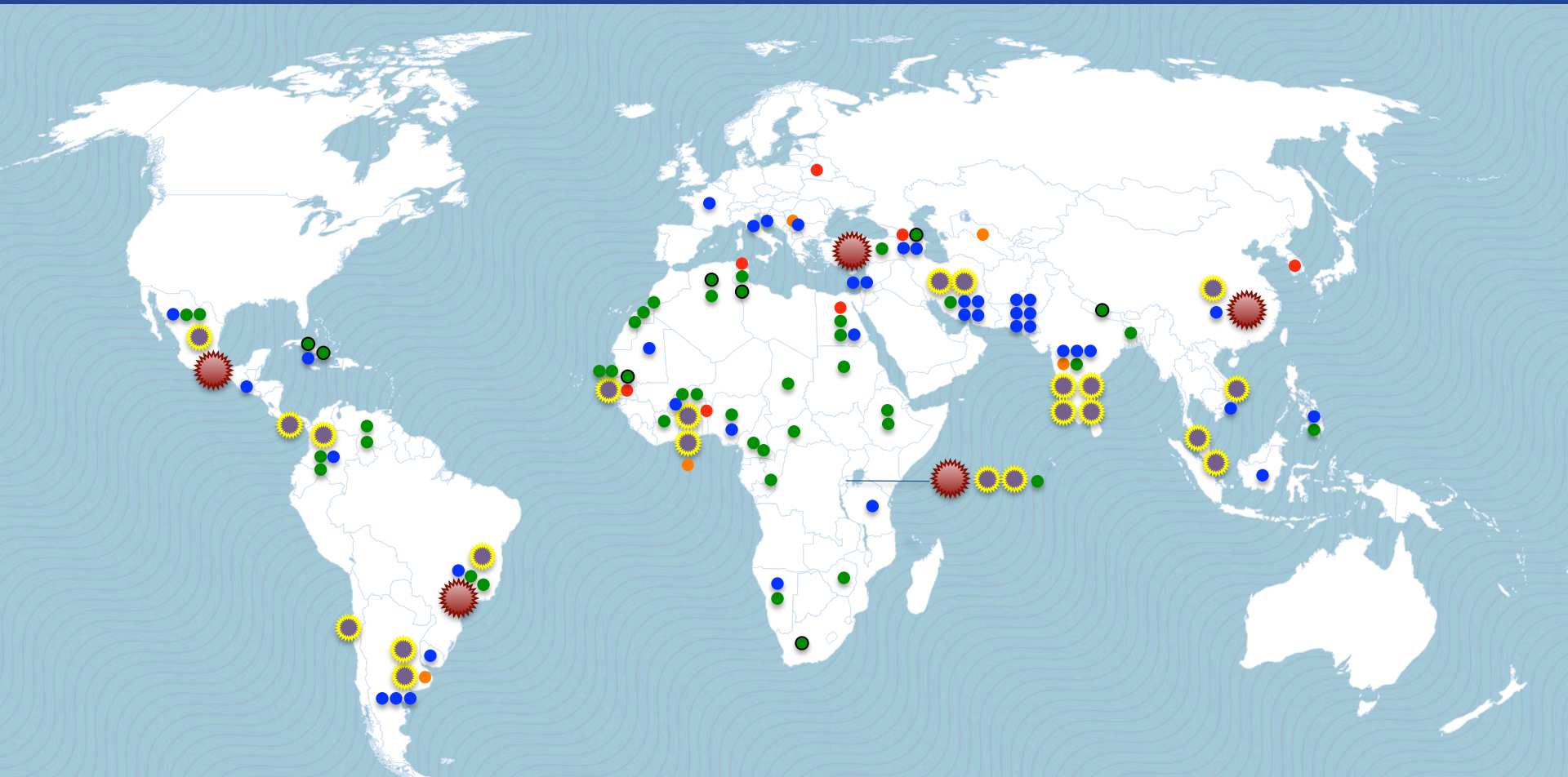
*Including visits of "Regular", "Senior", "Junior"(since 1998) and "Simons" Associates since 2014.

Laboratories opportunities



TRIL Programme, N. of Fellowships awarded 1983-2016





- **Affiliated Centres (7)**
- **Projects (5)**
- **Networks (8)**
- **Scientific Meetings (40)**

- **22 Schools and Workshops**
- **ICTP Partner Institutes**
Brazil, Mexico, Turkey, Rwanda, China

ICTP Prizes and Awards

- Dirac Medal since 1985
- ICTP Prize since 1982
- ICO/ICTP Gallieno Denardo Award since 2000 (previously ICO/ICTP Award)
- Ramanujan Prize since 2005





The Salam Distinguished Lectures

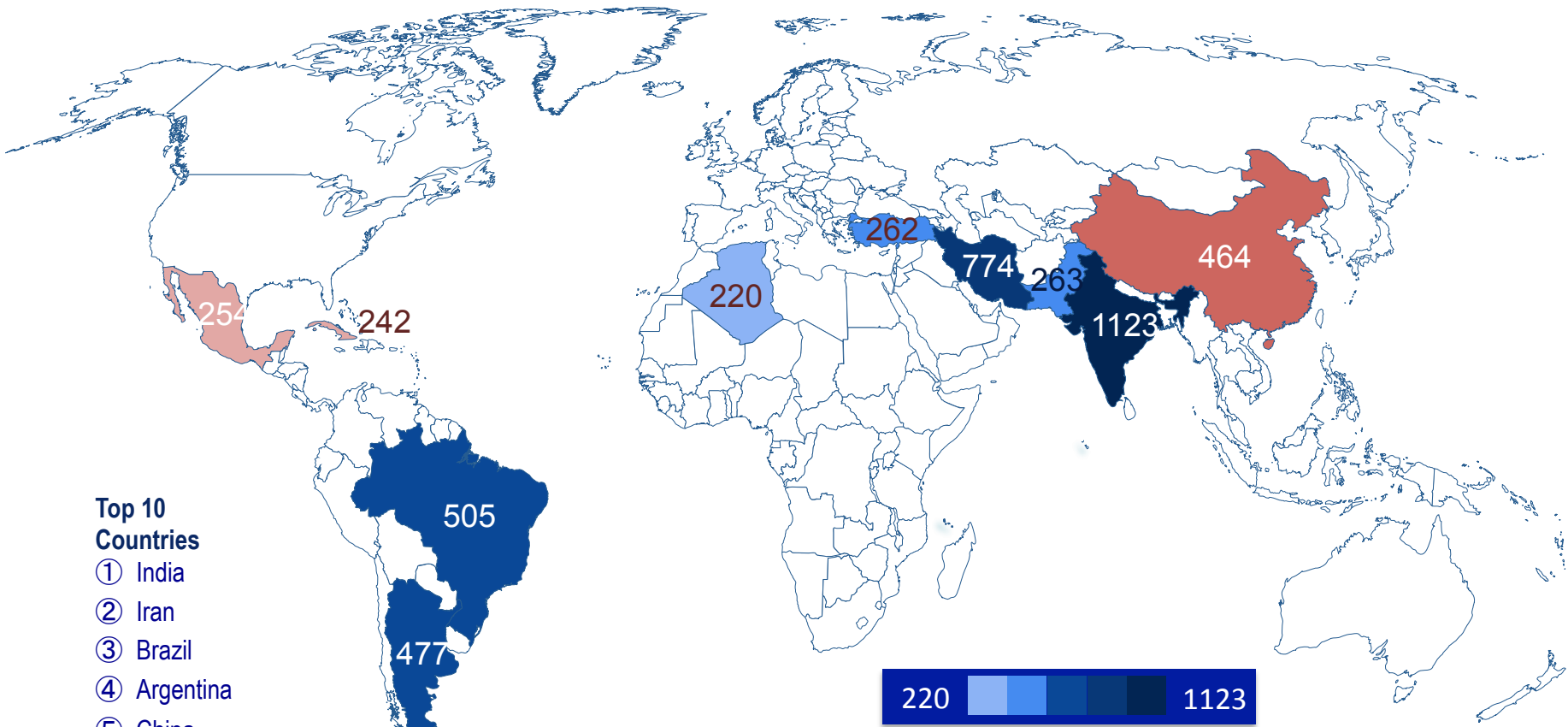
Year	Lecturer	Title of Lecture
2017	Sir Michael Berry	<i>"Superoscillations: unexpected fine detail and extreme values in mathematics and quantum and wave physics"</i>
2016	Sir Brian Hoskins	<i>"Climate and Climate Change"</i>
2015	Don Zagier	<i>"The Magic of Modular Forms"</i>
2014	Subir Sachdev	<i>"Theory of Quantum Matter: from Quantum Fields to Strings"</i>
2013	William Bialek	<i>"The physics of life: Searching for theories"</i>
2012	Nima Arkani-Hamed	<i>"Past, Present and Future of Fundamental Physics"</i>

Fast facts

- 15,750 visits since 2002
- 166 countries represented (including 26 LDCs)
- 22% of total visitors are women
51% of these are from developing countries
- 25% in 2016



Women in Science at ICTP, 2002-2016



Top 10 Countries

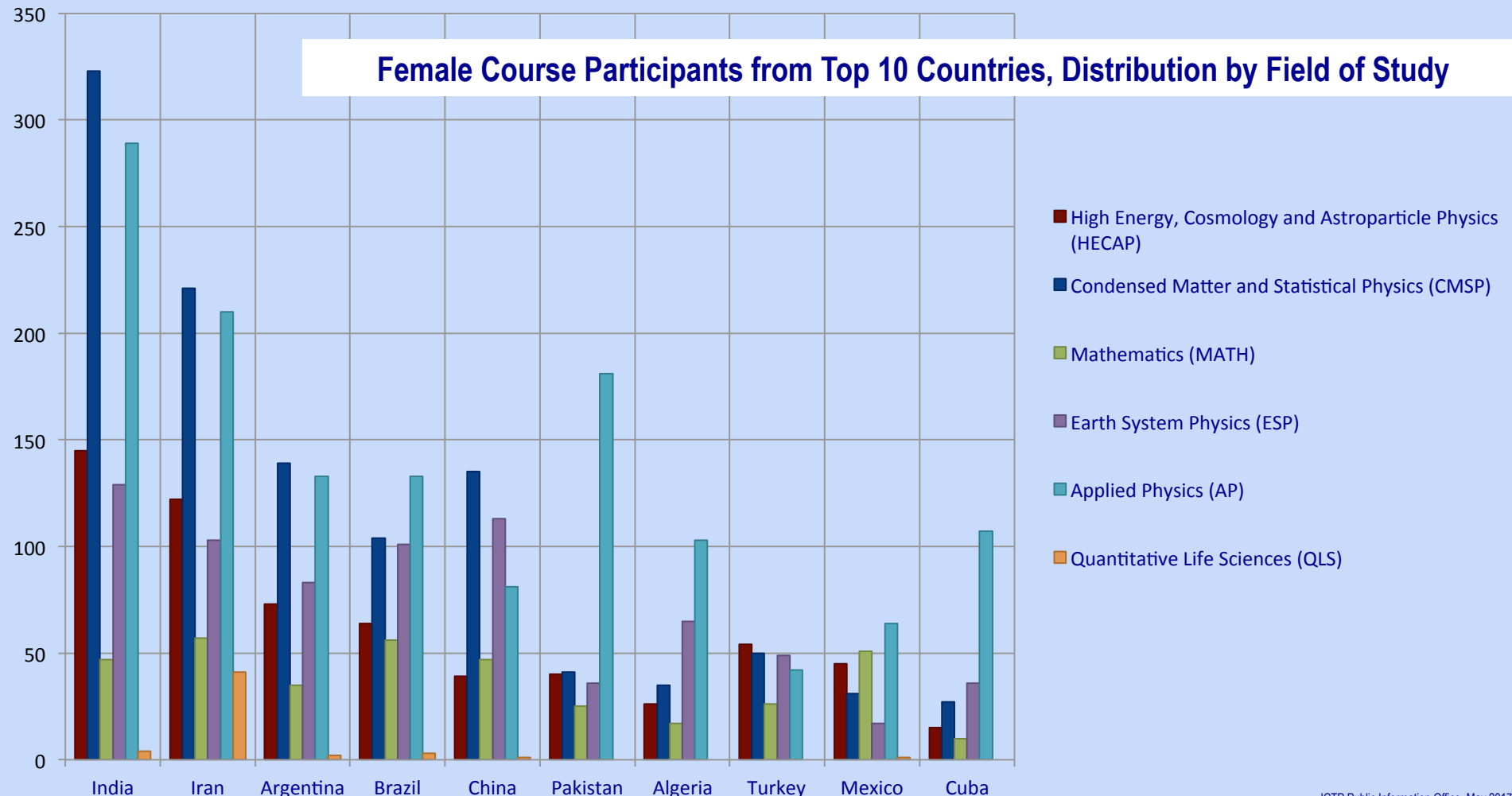
- ① India
- ② Iran
- ③ Brazil
- ④ Argentina
- ⑤ China
- ⑥ Pakistan
- ⑦ Turkey
- ⑧ Mexico
- ⑨ Cuba
- ⑩ Algeria

Top 10 countries of origin in developing regions

Women in Science at ICTP, 2002-2016



Female Course Participants from Top 10 Countries, Distribution by Field of Study

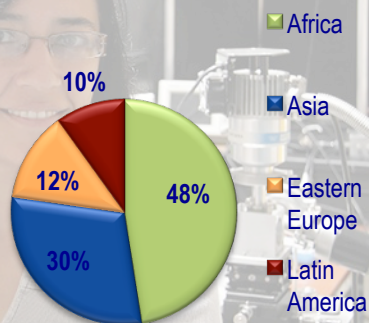


Educational and Career Programmes

STEP Female Fellows, 2003-2016

Of the 184 STEP Fellows, 69 are women (38%)

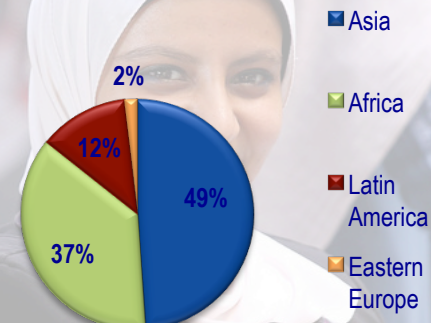
Distribution by Region	N. of Women
Africa	33
Asia	21
Eastern Europe	8
Latin America	7
Total	69



Postgraduate Diploma Female Students, 1991-2016

Of the 903 Diploma Students, 231 are women (25%)

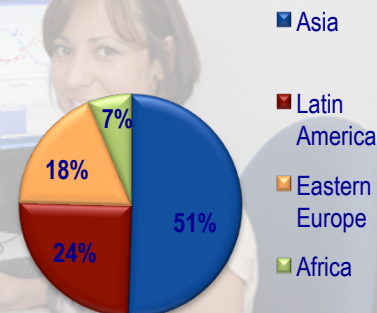
Distribution by Region	N. of Women
Asia	113
Africa	85
Latin America	29
Eastern Europe	4
Total	231



TRIL Female Fellows, 1983-2016

Of the 1342 TRIL Fellows, 297 are women (22%)

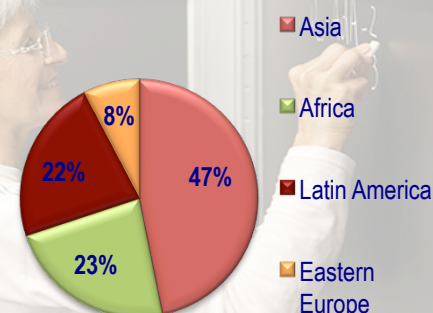
Distribution by Region	N. of Women
Asia	151
Latin America	71
Eastern Europe	53
Africa	22
Total	297



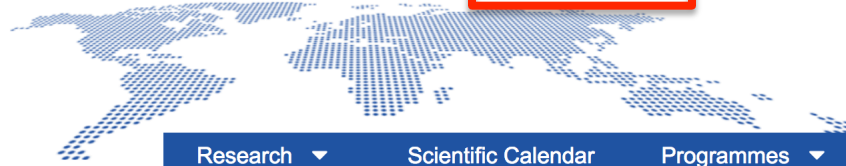
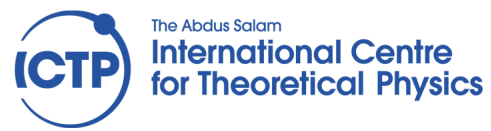
Associate Female Members, 1964-2016

Of the 2772 Associate Members, 329 are women (12%)

Distribution by Region	N. of Women
Asia	154
Africa	76
Latin America	74
Eastern Europe	25
Total	329



Women in Science at ICTP, 2002-2016



EVENTS [view all](#)

- today
ACTIVITY 6 MAR 2017 - 24 MAR 2017
» Joint ICTP-IAEA Workshop on Environmental Mapping: Mobilising Trust in Measurements and Engaging Scientific Citizenry | (smr 2858)
- ACTIVITY** 16 MAR 2017 - 24 MAR 2017
» Spring School on Superstring Theory and Related Topics | (smr 3108)

upcoming

HIGHLIGHTS [view all](#)



16 Mar 2017
"Not Science Fiction Anymore"
Yuval Gefen on Kelvin's clouds and quantum computing



08 Mar 2017
Physics Without Frontiers Wants You
Program now accepting applications for 2017-2018



08 Mar 2017
Career Development: Inspiration and Advice
ICTP's Women in Physics workshop returning in October 2017



Home > ICTP for Women

- ICTP FOR WOMEN
- Profiles
- Statistics
- Multimedia

NEWS HIGHLIGHTS

- "Light" Science in Asia
- Career Workshop 2015
- Beating Gender Bias
- Honours for Women Scientists
- Diploma Alumna Success

RELATED LINKS (EXTERNAL)

- Organization for Women in Science for the Developing World
- Schlumberger Foundation Faculty for the

Women in Science

Why are there still fewer women than men in science? In a world where just 30% of researchers are women, the reasons are many, ranging from the challenge of balancing family life and career to a lack of childcare support and role models.

ICTP hopes to address some of these challenges through a number of initiatives aimed at increasing the participation and representation of women in physics at the Centre. By including specific actions to this end in its new strategic plan for 2015 to 2019, ICTP has already taken some important steps:

- ICTP will host its third **Career Development Workshop for Women** from 9 to 13 October 2017. This follows on a workshop held in 2015 (see related news items [here](#) and [here](#)) as well as in 2013.
- The Centre offered free attendance and accommodation for one of its renowned conferences to the five winners of the 2015 Elsevier Foundation Awards for Early Career Women Scientists in the Developing World, which focused this year on physics and mathematics.
- The Centre devoted **two sessions to Women in Science** during its 50th anniversary celebrations in 2014

More actions are planned, thanks to the appointment of a coordinator for ICTP's women in physics initiatives. Please



ICTP, TWAS and OWSD participate in 2016 United Nations social media campaign "Orange the World" to end violence against women and girls.



Research

Scientific Calendar

Programmes

Home > About ICTP > Media Centre > Highlights > News Highlights 2017 > Career Development: Inspiration and Advice

NEWS HIGHLIGHTS

2017
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NEWS HIGHLIGHTS

Career Development: Inspiration and Advice

ICTP's Women in Physics workshop returning in October 2017

08/03/2017 - Trieste

Meeting the right people at the right time in your career can make a big difference. That's what happened to Alexandra Dávila with just the right dose of inspiration and advice pushing her to strive for a career in physics and enroll in a PhD program. But these meetings with role models did not come about by chance. Dávila attended the Women in Physics career development workshop held at ICTP in 2013, meeting with other physicists from all over the world.

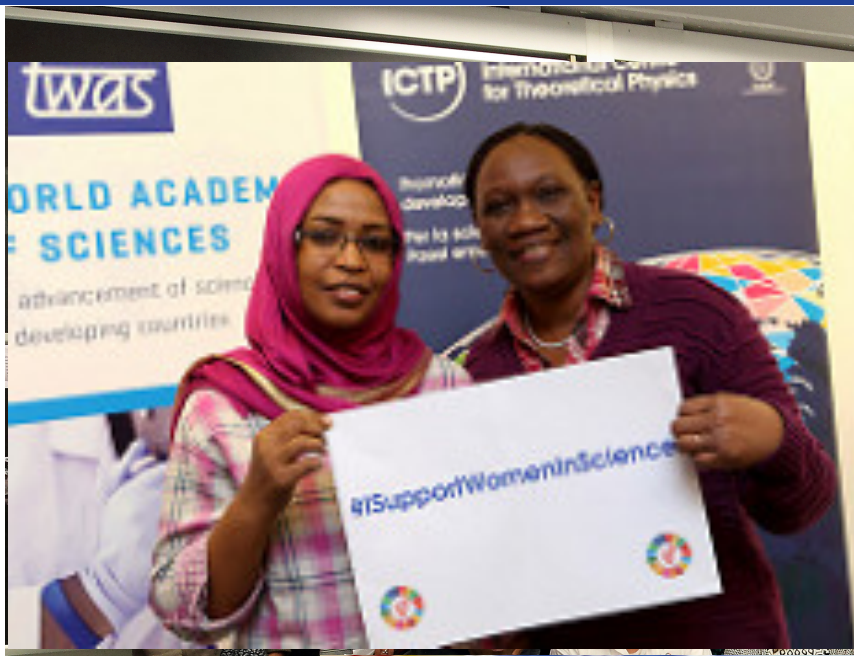


Women in Physics workshop 2013

The workshop is the idea of physicists Shobhana Narasimhan and Elizabeth Simmons, who were students together at Harvard and are now professors at the Jawaharlal Nehru Centre for Advanced Scientific Research in Bangalore and Michigan State University Department of Physics and Astronomy, respectively. They first put their idea into practice with a workshop in 2013, followed by [one in 2015](#), with the [2017 edition](#) planned for this October. It is only open to women, and always welcomes a new group of participants. Erika Coppola, the ICTP local organizer for the workshop, explained one of the main motivations: with all of the challenges specifically facing women in science, inspiration and support are too important to leave up to chance.

The workshop functions as a career development workshop, and a mentoring session, helping students and young scientists grapple with a wide variety of issues. It covers a variety of topics, from how to ask a boss for more resources to how to deal with unsupportive colleagues, to how to write a CV or proposal. By providing a forum for accomplished scientists to share their experiences, the workshop strives to provide both advice and inspiration. "It's an opportunity to

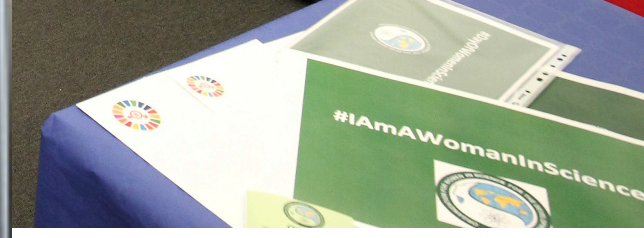
Women in Science at ICTP, 2002-2016



For more information visit:
www.ictp.it



Thanks





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information
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www.ictp.it

