The Abdus Salam International Centre for Theoretical Physics

United Nations Educational, Scientific and Cultural Organization

IAEA International Atomic Energy Agency

The Abdus Salam International Centre for Theoretical Physics

IAEA

unesco

ICTP 1964–2024

School and Workshop on Polar Climates: Theoretical, Observational and Modelling Advances

CLIVAR

CliC Climate and Cryosphere

IASC

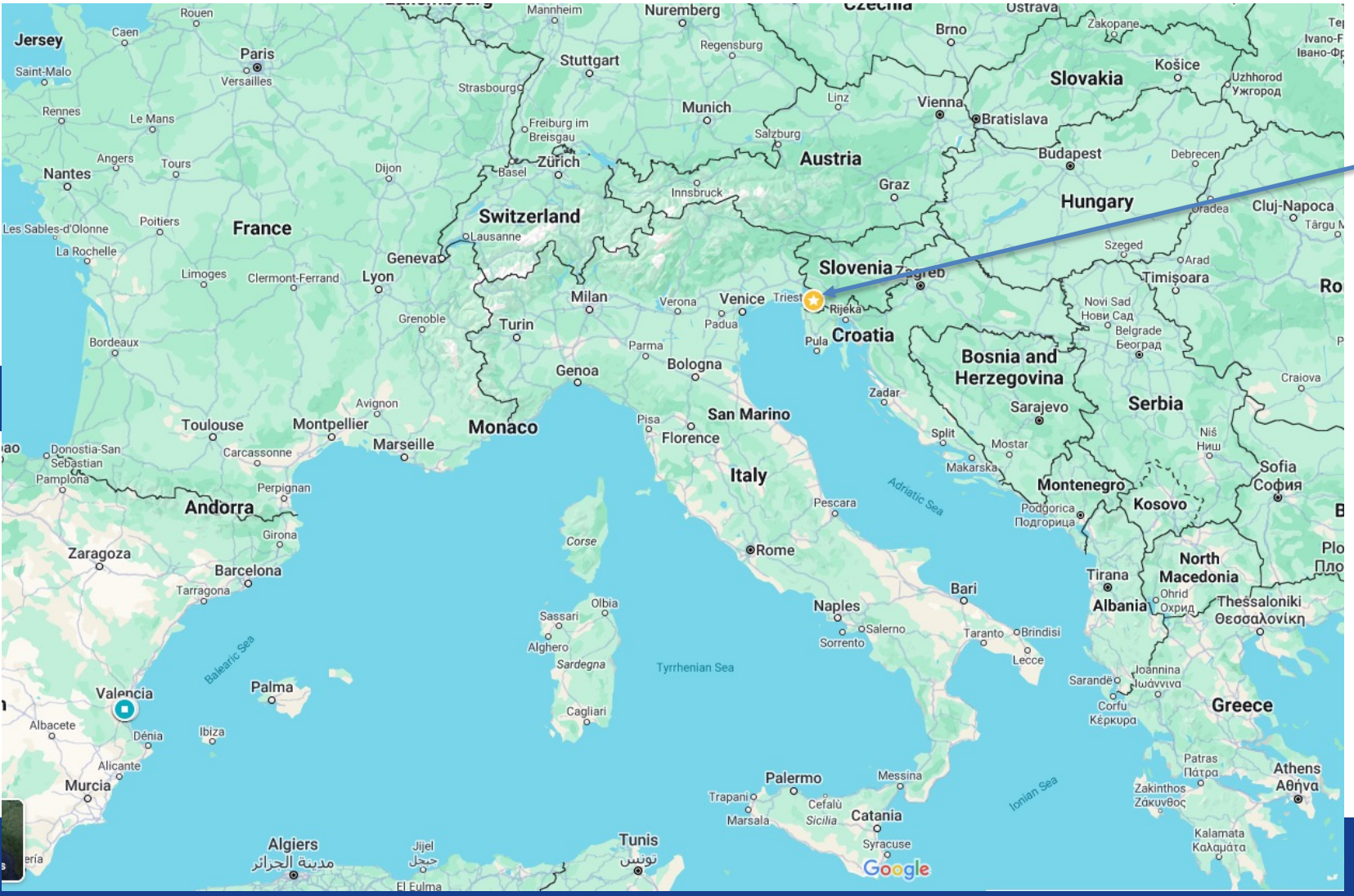
SCAR International Science Council Scientific Committee on Antarctic Research

SCOR International Science Council Scientific Committee on Oceanic Research

Canadian National Committee for SCOR
Comité national canadien pour SCOR
Scientific Committee on Oceanic Research

22 - 31 July 2024

Trieste, Italy



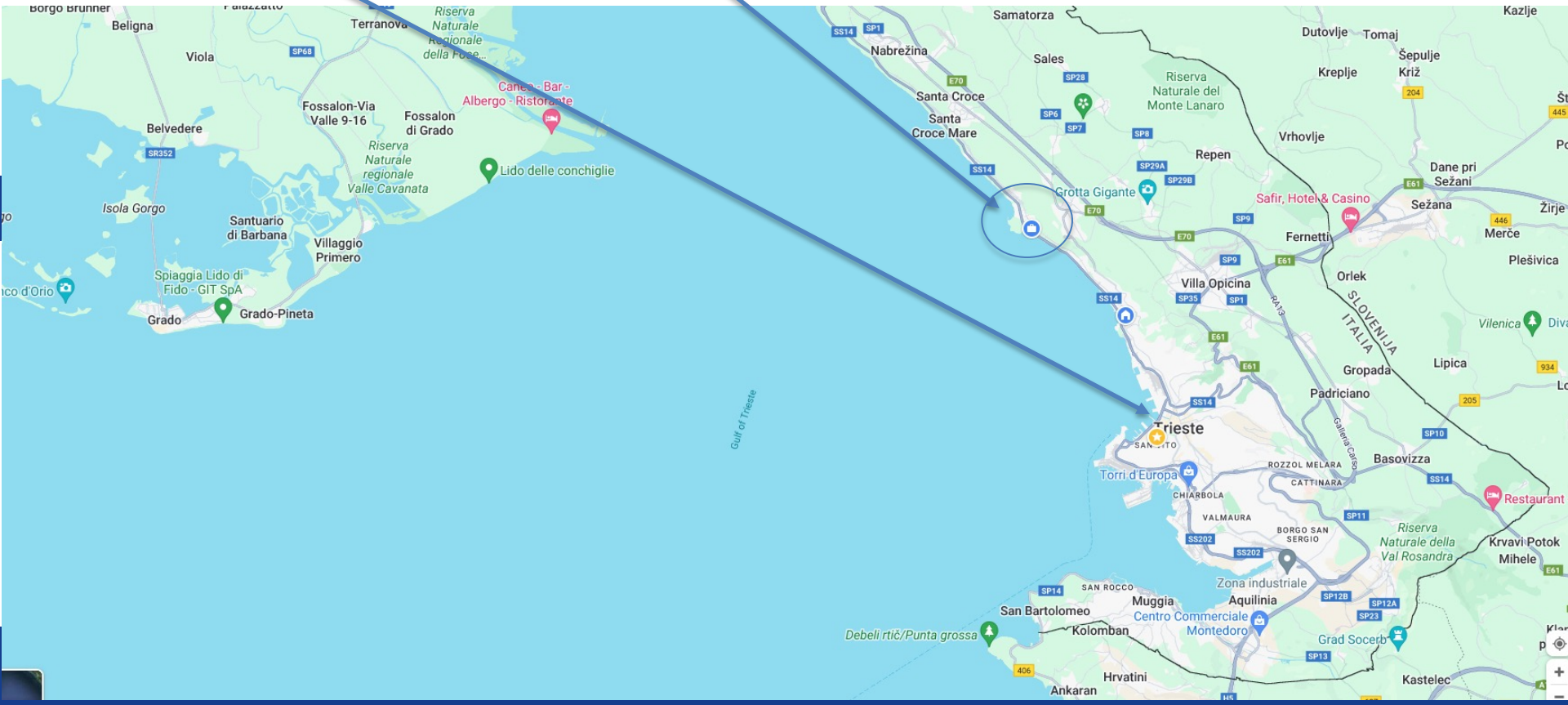
OK,
now let's
zoom in

The Abdus Salam International Centre for Theoretical Physics

City centre

We are here

The black solid line is the Italian border!



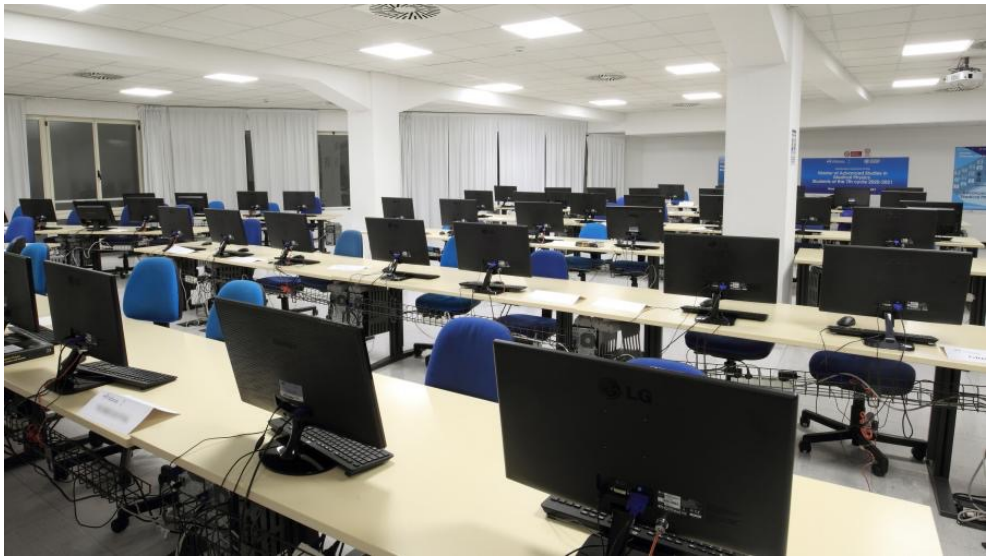
The Abdus Salam
International Centre
for Theoretical Physics

Adriatico GuestHouse and Lecture Halls

ICTP Main Buildings

Galileo GuestHouse

The Abdus Salam International Centre for Theoretical Physics



The ***Info Lab*** is where you will work on your projects

poster boards are in between

All lectures will be (here) at the ***Kastler Lecture Hall***

How to move from/to ICTP?

How to move from/to ICTP?

The Delfino Verde ('green dolphin') is often the fastest way to get to town during peak hours

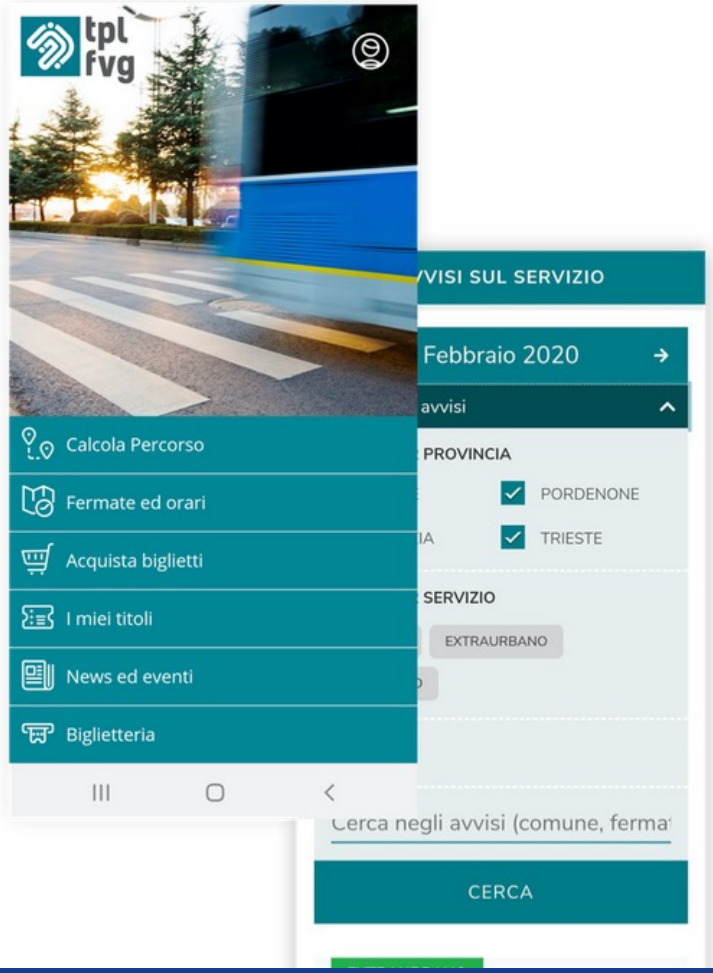
The Abdus Salam International Centre for Theoretical Physics

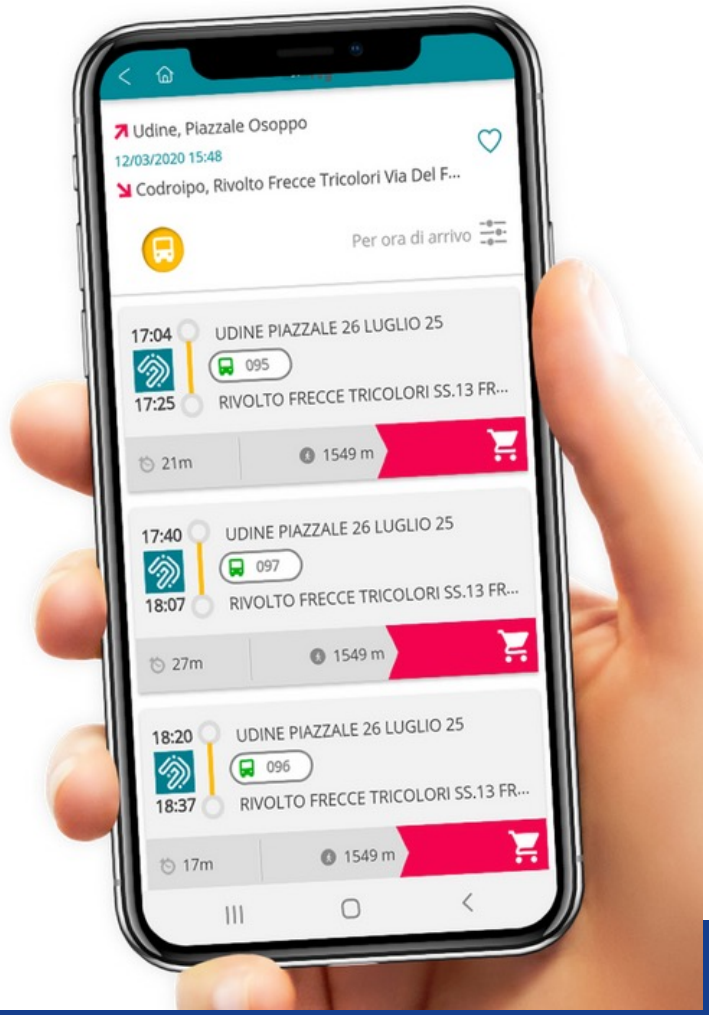
How to move from/to ICTP?

Download the App Weelo from Apple Store / Google Play Store

How to move from/to ICTP?

You cannot buy your ticket on board! I recommend the app *tplfvg*





ICTP OVERVIEW

"Scientific thought is the common heritage of humankind."

Abdus Salam

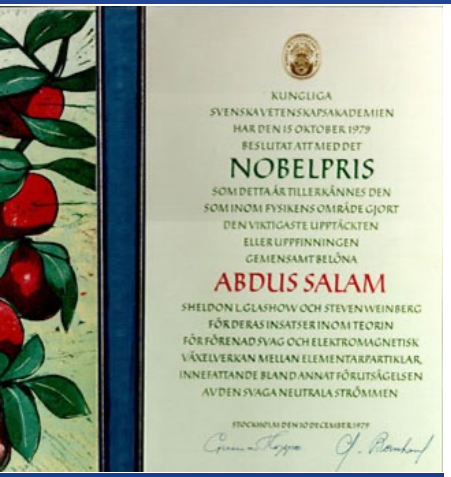
ICTP founder Abdus Salam

- 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 the Global South

ICTP mission

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

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



Quick facts

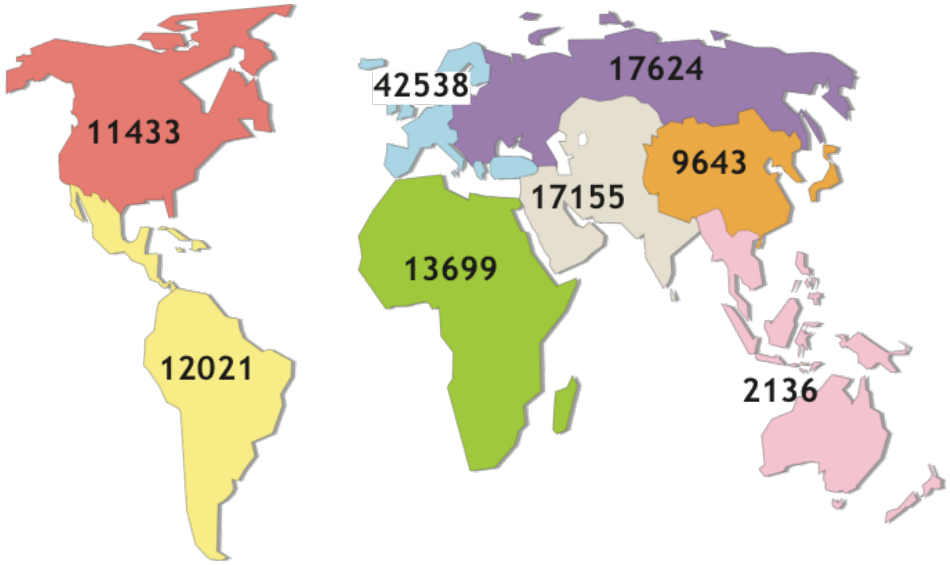
- Founded in 1964 by Nobel Laureate Abdus Salam
- Sponsored by tripartite agreement between Italy, UNESCO and IAEA
- Attracts visiting scientists mainly from developing and least developed countries
- Provides training to improve scientific capacity in developing countries

ICTP visiting scientists

- More than 120,000 visits since 1970
- 184 countries represented

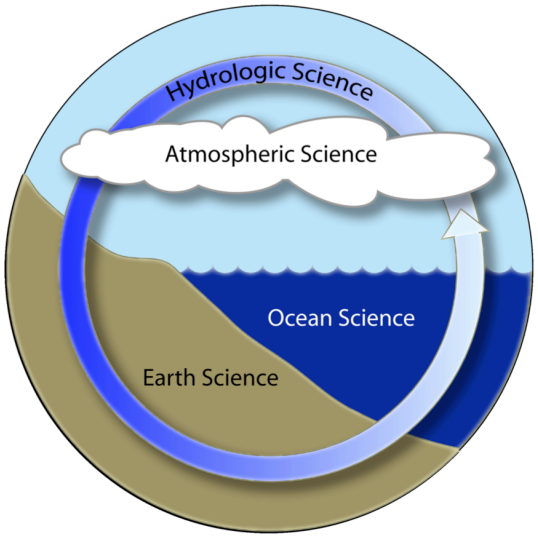
Number of visits by scientists from:

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



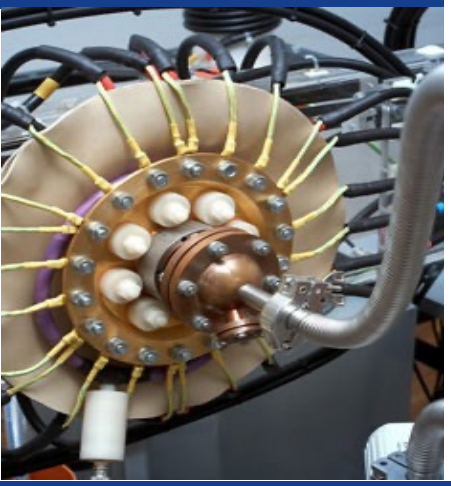
Research at ICTP

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



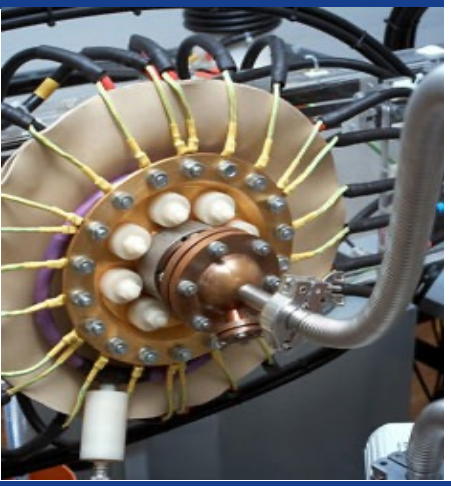
ICTP training and education

- Provides training and skills to scientists from developing countries
- ITCP organizes more than 60 conferences/workshops each year
- 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



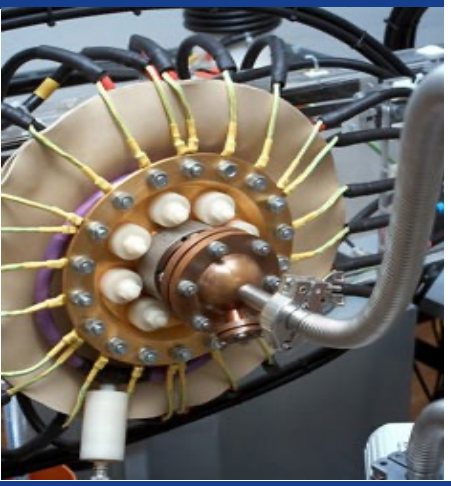
Diploma Programme

- **Pre-PhD Diploma Programme**: 1-year intense pre-PhD programme.
- Two streams: Physics of Solid Earth / Physics of Climate.
- Students work on a research thesis with an ICTP supervisor.
- Many of our students have been accepted for PhD in US and European Universities.
- http://diploma.ictp.it/courses/esp.aspx



MSc in HPC

- **Master in High Performance Computing (MHPC)**
- Lecturers from ICTP, SISSA, CINECA.
- MHPC provides skills useful both in the academic and in the industrial field, like technical and software development.
- The program combines lectures with hands-on and applied projects to prepare future HPC specialists for academia and industry.
- http://www.mhpc.it/

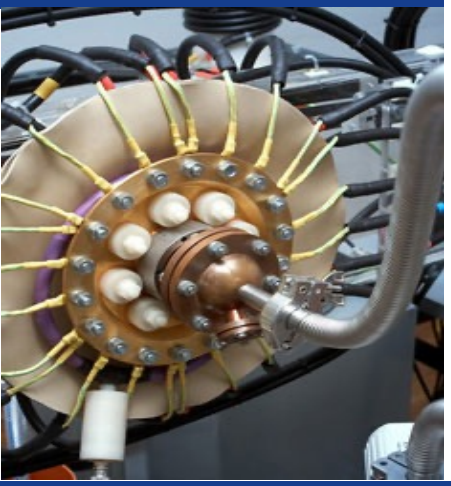


STEP Programme

- **Sandwich Training Educational Programme (STEP):**

fellowships to PhD students from developing countries in the fields of physics and mathematics.

- With a STEP fellowship, **PhD students study at their home universities but have the financial support to visit ICTP** or a collaborating institute for a three- to six-month stay each year for three successive years.
- Their PhD is awarded at their home institutes.



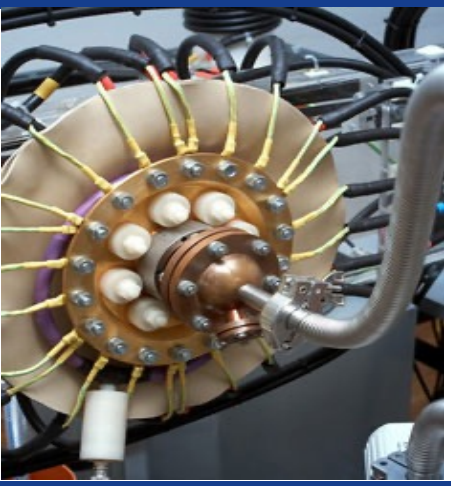
PhD Programme

- **Joint PhD Programme**

  Earth Science and Fluid Mechanics

  with Trieste University

- 3-year PhD programme.
- Courses in common with ICTP Diploma, Math. Dept, Engineering Dept.
- Funding comes from Trieste U., Italy, EU sources, ICTP.
- **https://web.units.it/dottorato/esfm/**



Associate Programmes

- **Associate Schemes**
- **Junior:** promising young scientists up to the age of 35. 6-year appointment, during which associate visits ICTP three times for stays of between 30 and 60 days each.
- **Regular:** Scientists aged between 36 and 45.
- **Senior:** intended for scientists, over the age of 45, from and working in developing countries. 6-year appointment; unlimited visits of up to 60 days each.

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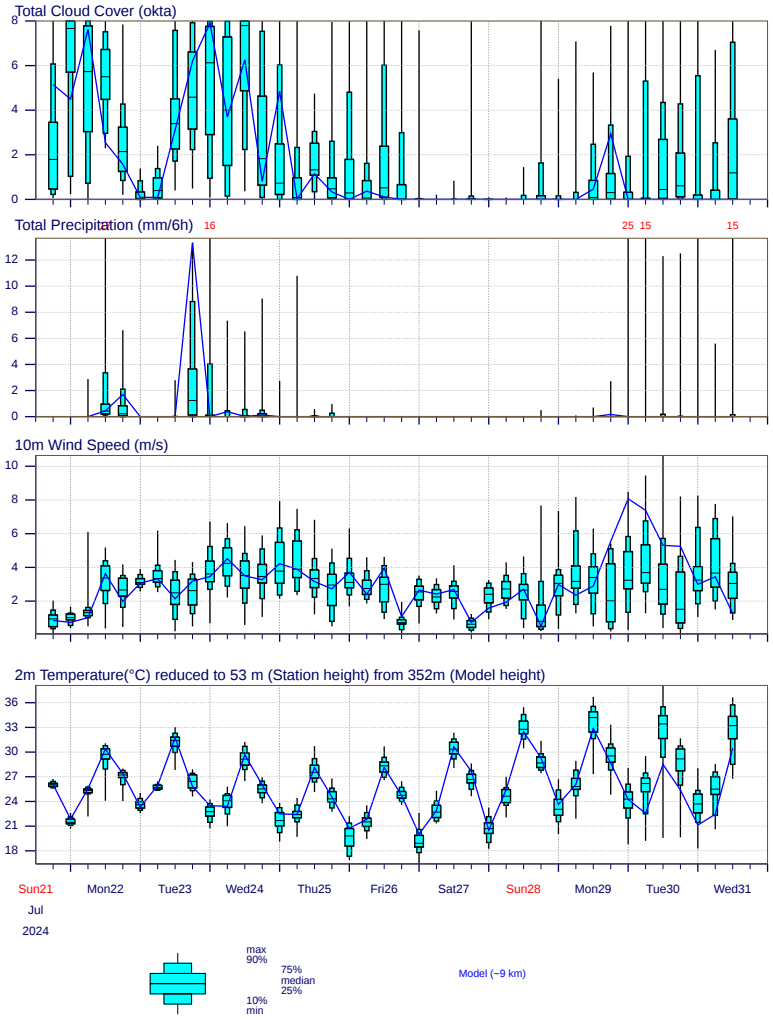
… and it is also a nice place to visit/live …

ENS Meteogram

Trieste - Friuli - Italy 45.66°N 13.89°E (ENS land point) 53 m

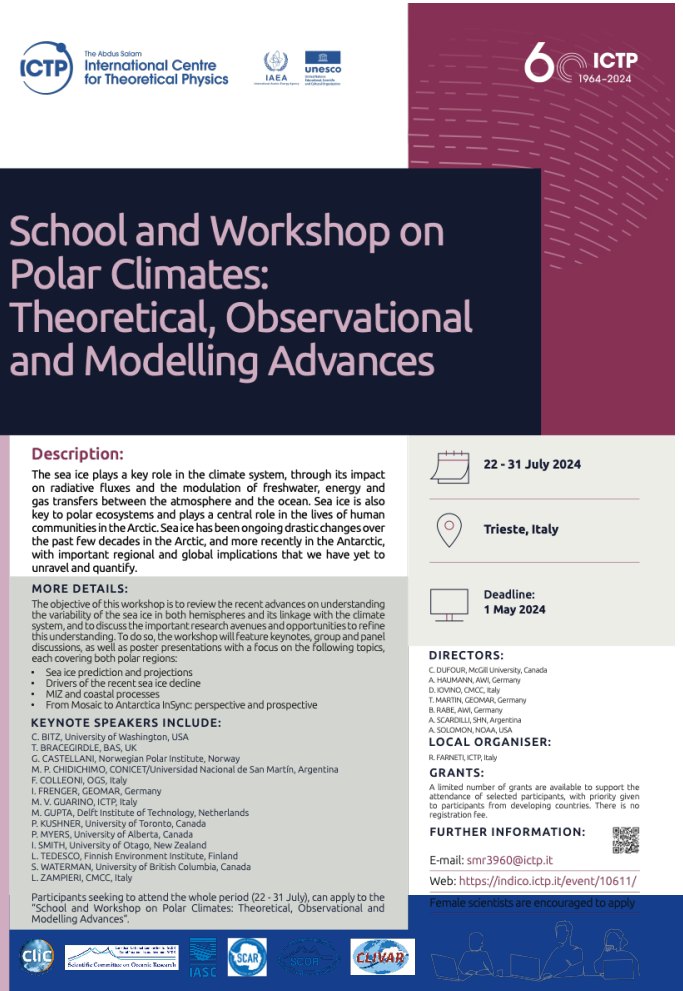
High Resolution Forecast and ENS Distribution Sunday 21 July 2024 12 UTC



The Abdus Salam International Centre for Theoretical Physics

22-28 July, 2024

https://indico.ictp.it/event/10498/



for any question:

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smr3960@ictp.it

29-31 July, 2024

https://indico.ictp.it/event/10611/