

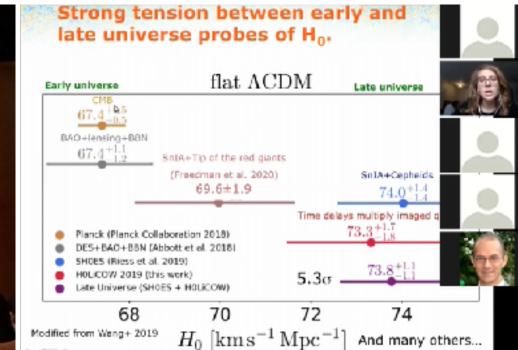
# EuCAPT

### **European Consortium for Astroparticle Theory**









# EuCAPT in 2023

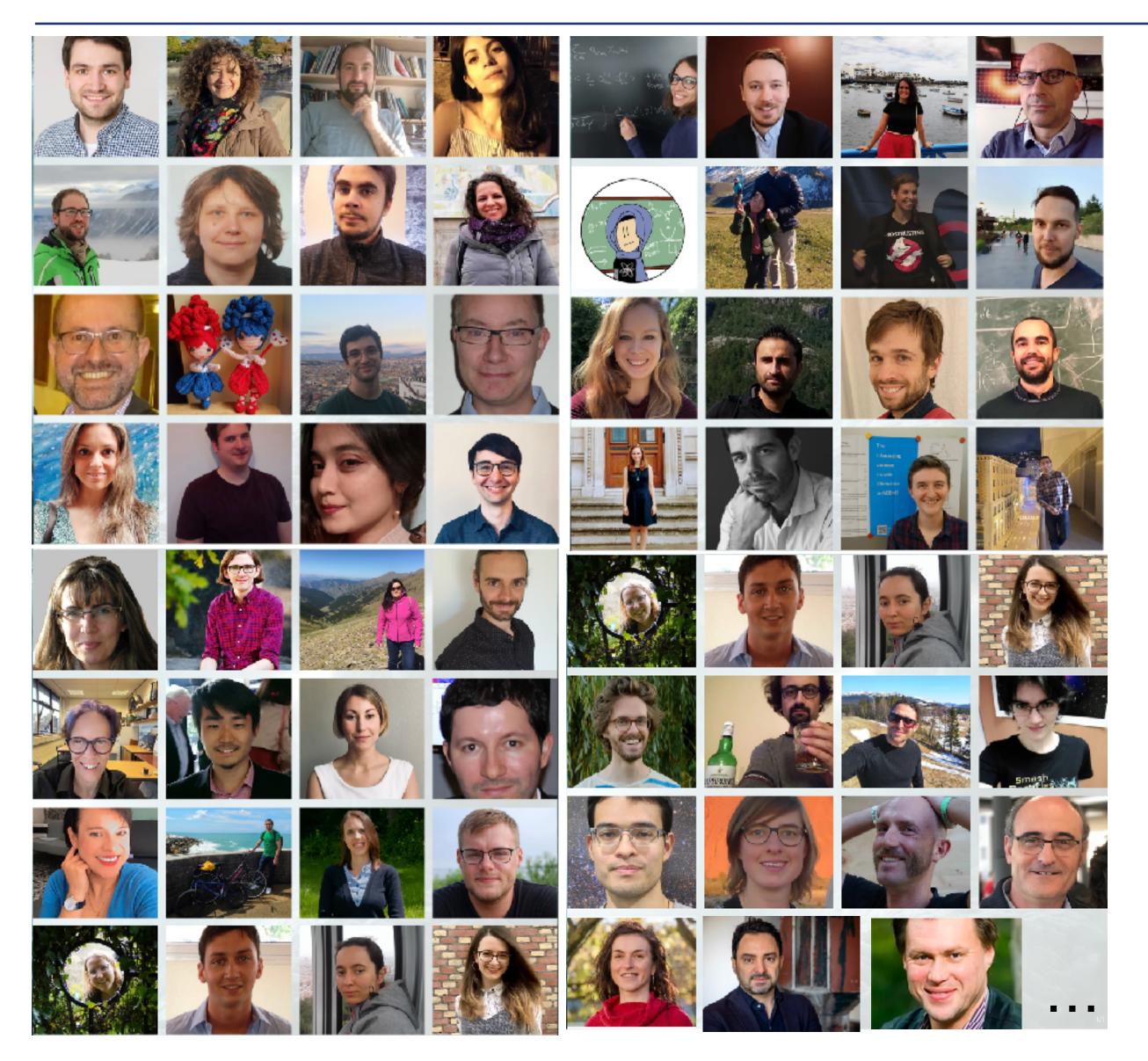




- Launched in 2019
- Central hub at CERN
- Grown in 4 years to:
  - 133 Institutions
  - 1688 individual members
- Represented by:
  - 70 Council Members
  - 11 Steering Committee members



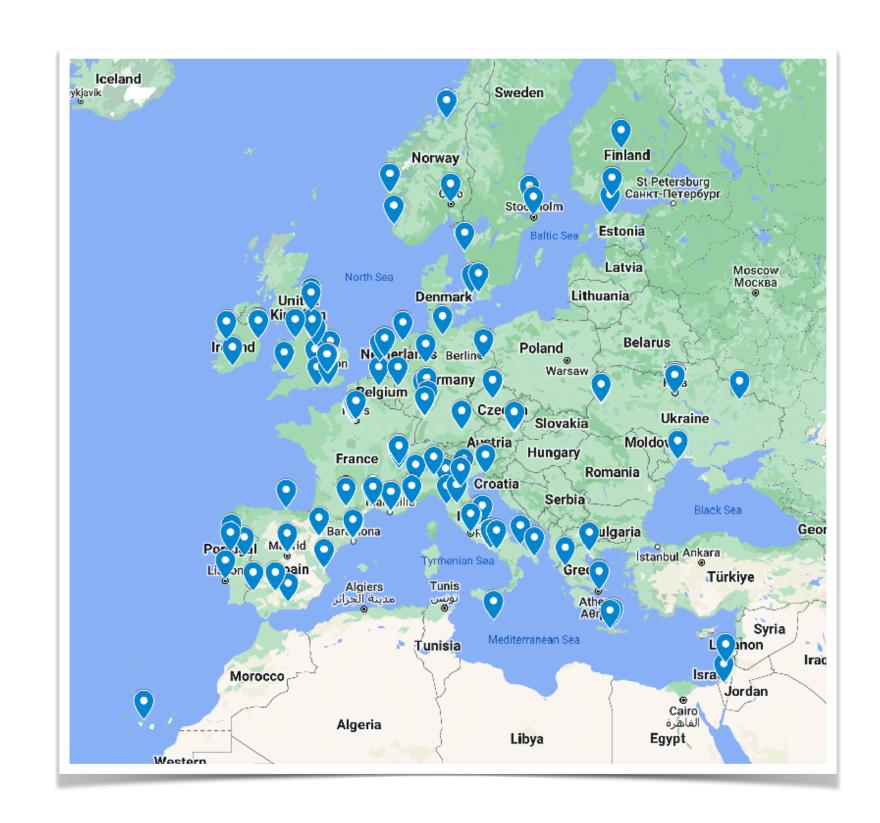
### Who are we?



- 1688 individual members
- A vibrant, diverse community:
  - Video profile series:
     recorded Zoom interviews
     with members of the
     community, covering
     research and life in
     academia
  - Blog profiles series: short, written interviews with members of the community







- First meeting 4 Oct 2022
- Second meeting 30 May 2023

António Pestana Morais

Enrico Pajer

Jackson Levi Said Pedro G. Ferreira

Alberto Mariotti

Francesca Calore

Alejandro Ibarra Paul Saffin

Irene Tamborra

Valerie Domcke Volodymyr Pelykh

Silvia Pascoli

Gert Hütsi

Pedro Schwaller

Ely Kovetz

Giuseppe Fannizza

Jorge Martin Camalich Riotto Antonio

Katy Clough
Laura Sagunski
Pierre Vanhove
José Ignacio Illana

Paolo PANCI

Foteini Oikonomou

Carmelo Evoli Harry Desmond

David J. E. Marsh (Doddy)

Laura Bernard David Langlois

Jose Alberto Ruiz Cembranos

Gabriela Barenboim Riccardo Catena Ivonne Zavala Alessio Notari Alvise Raccanelli Bradley J Kavanagh

Sami Nurmi

Jessica Turner

John Antoniadis

José Manuel Carmona

Masina Isabella Isabella Masina

Alessandra Silvestri

Marco Taoso

Federico Urban

Isabella Masina

Walter Winter

Christoph Weniger

Isabella Masina

Sébastien Renaux-Petel

Philipp Mertsch

Ricardo Z. Ferreira

Matteo R. Fasiello

Masha Chernyakova Arttu Rajantie

Marina Migliaccio

Ilidio Lopes

Tim Linden

Paolo Pani Fabio locco

Davide Gerosa

Emanuela Dimastrogiovanni

Alain Blanchard

Josef Pradler

Gabrijela Zaharijas Željka Marija Bošnjak

Julia Becker Tjus

Stefano Liberati Geraint Pratten







**Ema Dimastrogiovanni** 

**Training** 



Silvia Pascoli

Outreach



**Anne Green** 

Colloquia



**Matteo Fasiello** 

Workshops



Francesca Calore

Governance/ Elections



Gabriela Barenboim

**Funding Opportunities** 





Niko Šarčević

#### Former members:



Piero Ullio



Philippe Brax



Licia Verde



**Vitor Cardoso** 



Gian Giudice



Toni Riotto



David Langlois



Subir Sarkar



**Andrew Taylor** 

Newsletter



David Marsh

Website



Valerie Domcke

**Symposium** 



Jessica Turner

EDI/
Community
building



Alvise Raccanelli

Collaborative Projects



Gianfranco Bertone

**Director** 

# EuCAPT

# Selected highlights

- Community-wide White Paper "Opportunities and Challenges for Theoretical Astroparticle Physics in the Next Decade" (arXiv:2110.10074) 135 authors, 400 endorsers
- Community building:
  - Website
  - Monthly Newsletter
  - Mailing list (1655 colleagues)
  - Code repository HEP + Astro + Cosmo
- Funded first exchange program in 2022:
  - 4 collaboration meetings at CERN
  - 13 individual visits to other EuCAPT institutions
- Events organised:
  - 3 Annual Symposia
  - 6 Workshops
  - 15 Colloquia
  - This year: EuCAPT BIP Erasmus+ School

# What's next?



- How can we enable/accelerate new discoveries?
- How can we attract new resources?
- How can we best serve our growing and increasingly diverse community?
- How can we improve the public understanding of Cosmology and Astroparticle Physics?
- What are the questions that we are not even asking yet?

•

## Funding Opportunities and Training Task Forces



#### **Funding Opportunities**

Gabriela Barenboim (chair) gabriela.barenboim@uv.es

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Ivonne Zavala e.i.zavalacarrasco@swansea.ac.uk

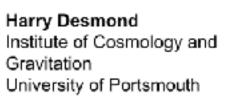
Davide Gerosa davide.gerosa@gmail.com

Paolo Panci paolo.panci@cern.ch

#### **Training**



Marina Migliaccio
Department of Physics
University of Roma Tor
Vergata/INFN





Christoph Weniger GRAPPA University of Amsterdam

Ema Dimastrogiovanni Van Swinderen Institute University of Groningen





This is the website of the First EuCAPT School on Cosmology.



Eu**CAPT** 

The School is designed for Master and PhD Students working in the areas of cosmology and astroparticle physics and combines a scientific with a «soft skills» training program. Science lectures will be delivered by world experts from different European Universities and research centres.

#### Lecturers:

- Carlo Contaldi, Imperial College London
- Daniel G. Figueroa, Instituto de Física Corpuscular (CSIC University of Valencia)
- Mark Hindmarsh, Helsinki University and Sussex University
- Alessandra Silvestri, University of Leiden
- Gianmassimo Tasinato, Bologna University and Swansea University
- Andrew Tolley, Imperial College London
- David Wands, Institute of Cosmology and Gravitation, University of Portsmouth

The school will have no registration fee and will amount to a study load of 3 ECTS.

Registration: INDICO.









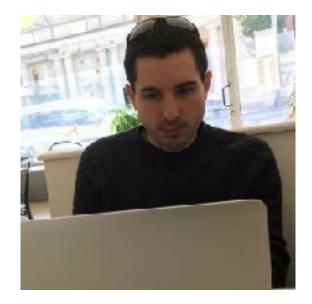


### **Community Building Task Force**





Jessica Turner (University of Durham) : <a href="mailto:jessica.turner@durham.ac.uk">jessica.turner@durham.ac.uk</a>



Tim Linden (Stockholm University): <a href="mailto:linden@fysik.su.se">linden@fysik.su.se</a>



Laura Bernard (Paris Observatory) : <a href="mailto:laura.bernard@obspm.fr">laura.bernard@obspm.fr</a>



- update the EUCAPT Code of Conduct (https://www.eucapt.org/coc)
- suggest speakers on EDI for the EUCAPT colloquium, workshops and schools

#### • Planned:

- analyse the census data about the diversity of the EUCAPT community
- act as ombudsperson for EUCAPT contact (to be set up)



Irene Tamborra (Niels Bohr Institute)
: tamborra@nbi.ku.dk

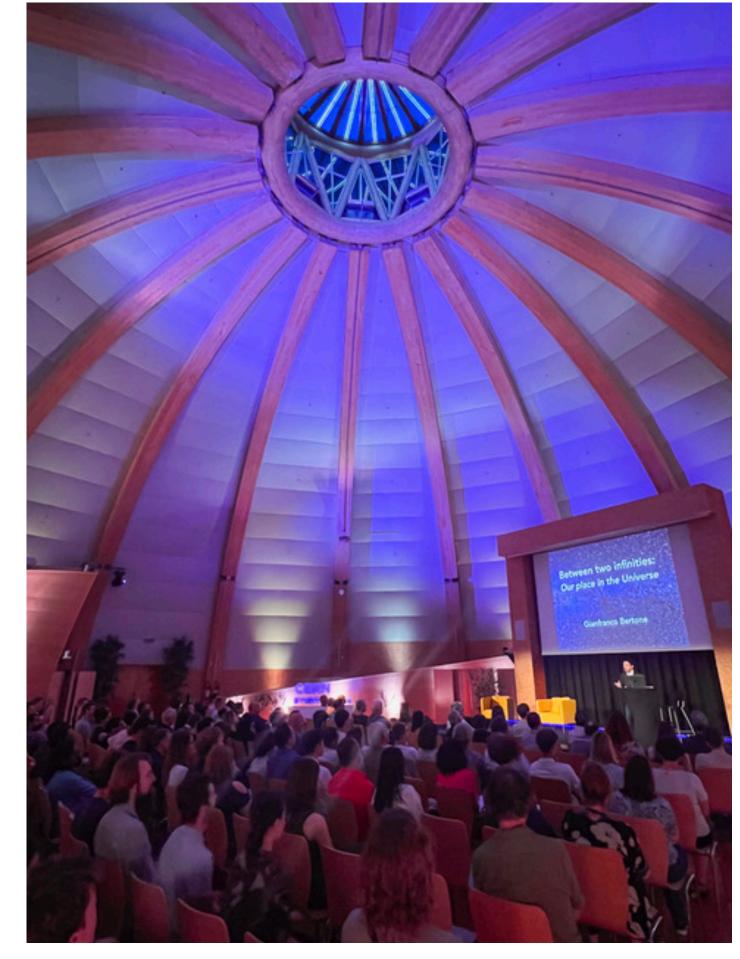


# Symposium Task Force

#### 3rd EuCAPT Symposium at CERN, May 31 to June 2, 2023



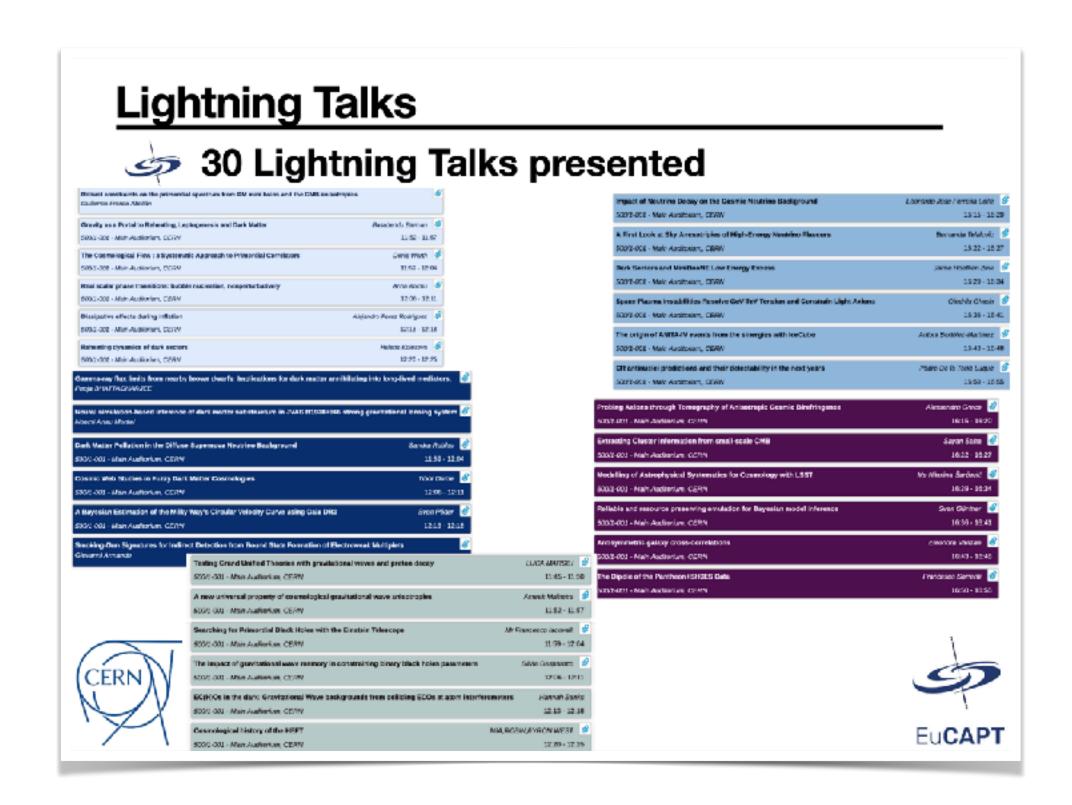


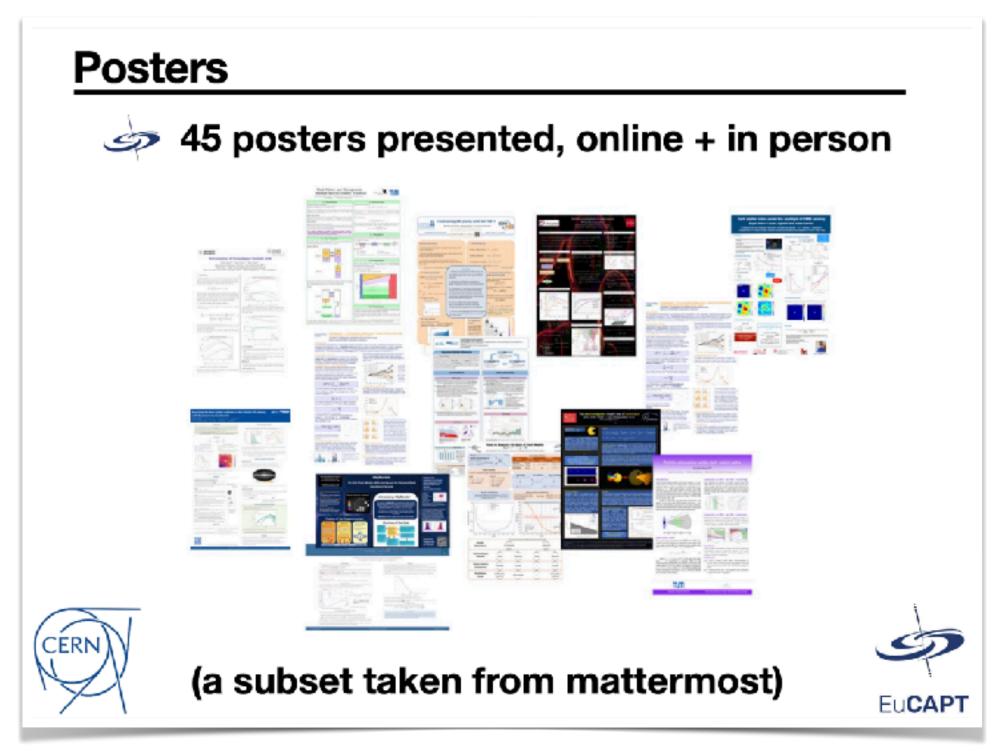


https://indico.cern.ch/event/1218730/



#### 3rd EuCAPT Symposium at CERN, May 31 to June 2, 2023





# Website Task Force





Katy Clough //
QMUL
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David Marsh // Stockholm University david.marsh@fysik.su.se



Bradley Kavanagh //
IFCA
kavanagh@ifca.unican.es



Niko Šarčević //
Newcastle University
n.sarcevic2@newcastle.ac.uk

#### In progress or done:

- General info
- Joining EuCAPT
- Resources
- Events/News
- Blog
- Video profiles
- Events

#### Plans:

- Evolve with the organization
- Synchronize with other task forces
- Increase social media presence
- Community insight and suggestions

# Outreach Task Force



Silvia Pascoli, University of Bologna, INFN

Jorge Martin Camalich, IAC, University of La Laguna

Jose Ignacio Illana Calero, U. of Granada

Pierre Vanhove ,IPT CEA-Saclay

Isabella Masina, U. of Ferrara, INFN

Alessio Notari, U. of Barcelona

Jose Manuel Carmona, U. of Zaragoza



- Phase I: collect information about what the community does and needs emerge.
  - We will send out a survey to capture a picture of the activities carried out by the community, especially to highlight innovative initiatives.
- Phase II: proactively initiate new outreach activities of broad scope in theoretical astroparticle physics
  - (e.g. Twitter further developing current activity, Instagram, youtube channel for talks, prizes for outreach)..

# Cosmos Prize



- 2 prizes for best pop science book awarded every year: 1 from scientists, 1 from high school students
- Very successful in Italy
  - Top scientists & communicators involved (Jim Al Khalili, Brian Greene, Sean Carroll, David Spiegelhalter)
  - Thousands of students involved
- Open to all, focus on youth from disadvantaged backgrounds
- In collaboration with Education Ministry, Publishers, Schools, National agencies

Already established in Italy and NL, ongoing discussions with colleagues in France, UK, Sweden, Spain...

# Governance Task Force



#### Francesca Calore,

- Laboratoire d'Annecy de Physique Théorique (FR)
- calore@lapth.cnrs.fr

#### Ricardo Z. Ferreira,

- Institut de Física d'Altes Energies (ES)
- rzambujal@ifae.es

#### David Langlois

- Laboratoire Astroparticules & Cosmologie (FR)
- langlois@APC.UNIV-PARIS7.FR

#### Arttu K. Rajantie

- Imperial College London (UK)
- a.rajantie@imperial.ac.uk

#### **Top priorities:**

- Prepare elections for new EuCAPT director [Done]
- Prepare next Council Chair election [Done]
- Maintain official EuCAPT governance document updated [lb progress]
- Revise membership and representation rules [In progress]
- Invite missing insitutions to join + reopen membership applications [In progress]

# Looking for a new director



- After ~5 years I will step down as director in Jan 2024
- We seek a new director who can lead EuCAPT for the next 2.5-5 years
- This is an *amazing* opportunity:
  - Professional growth: leadership of large European network
  - Coordinate a diverse community of highly skilled and motivated people
  - Make/catalyse long lasting contributions to our scientific field
- What is your vision?
- Council collecting nominations now! (more later)

# EuCAPT's director



The main tasks of the Director are:

- To chair the Steering Committee;
- To coordinate and supervise the whole range of EuCAPT activities;
- To keep in close **contact with the authorities of the central hub** host about the provided support and services and the activities of the secretarial support staff;
- To prepare annual plans and annual reports, including an overview of the activities and a financial report.
- To **report twice a year** to the APPEC GA about the activities of EuCAPT. The Director has a standing invitation to the APPEC GA meetings;
- To actively seek opportunities to support community building activities;
- To coordinate the application for funding instruments to support scientific meetings and staff exchanges;
- To stimulate and coordinate actions which demand a prompt reaction (for instance new physics results, requests from APPEC-SAC or requests of visits/short workshops/meeting which are not part of the annually planned activities of EuCAPT);
- The EuCAPT Director can create new task forces for specific actions mentioned above.