

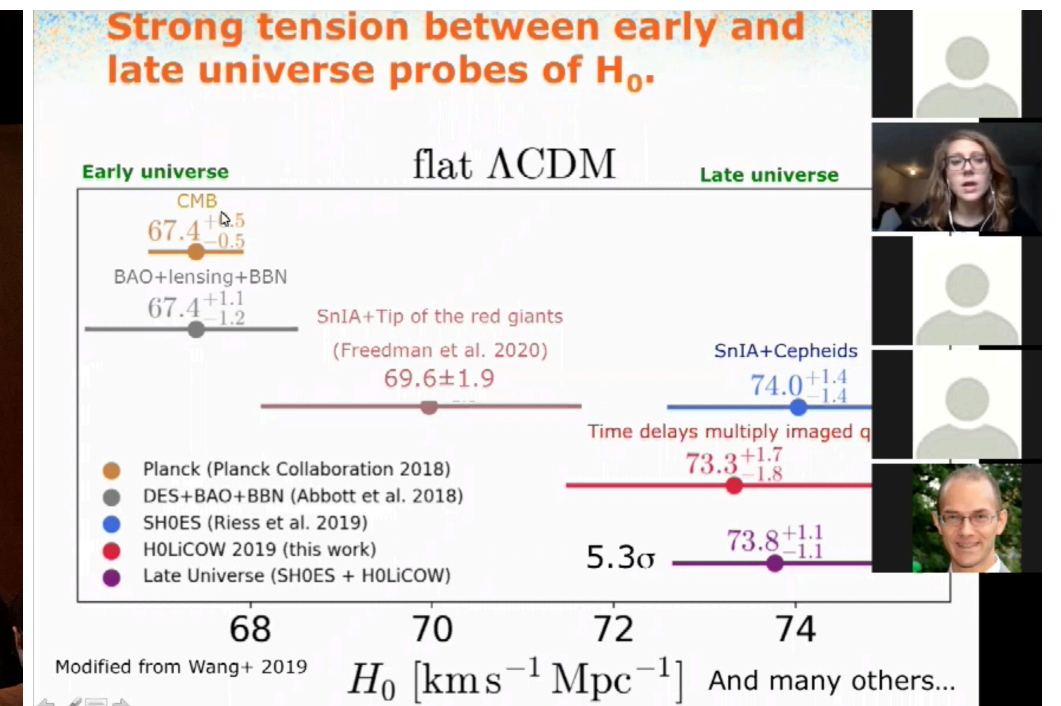
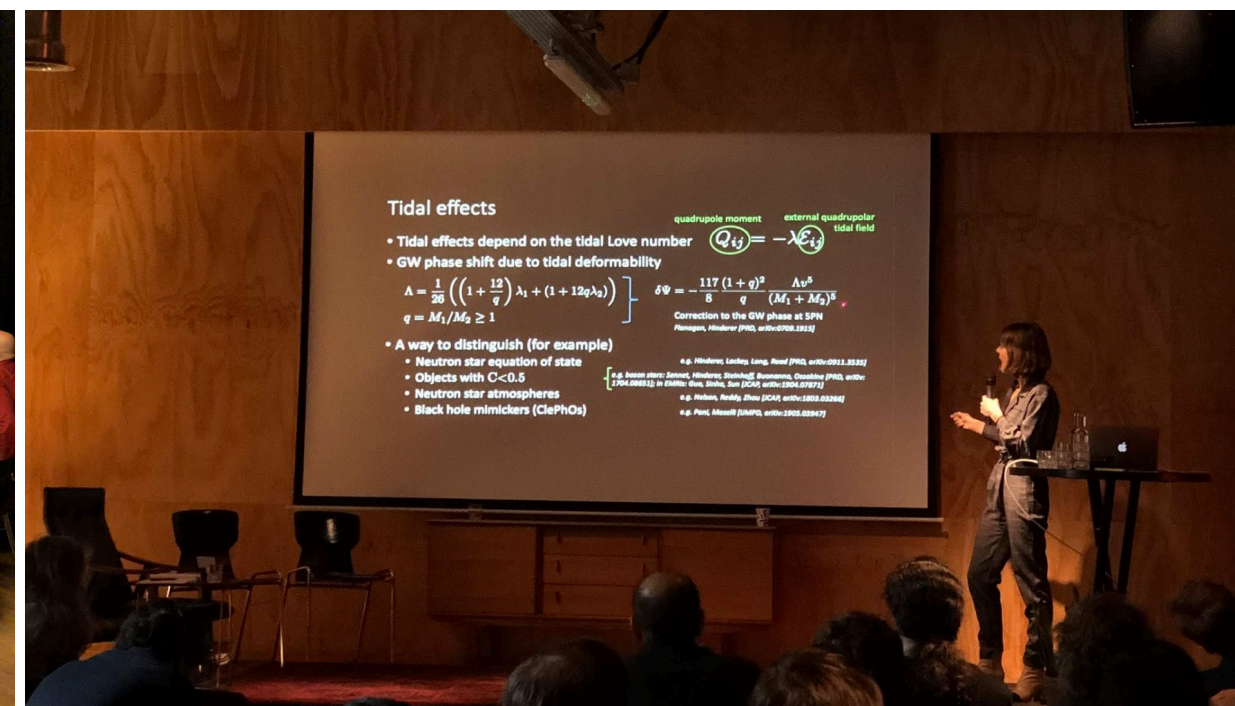
The future of

EuCAPT



EuCAPT

European Consortium for Astroparticle Theory



Gianfranco Bertone, 5/7/2020

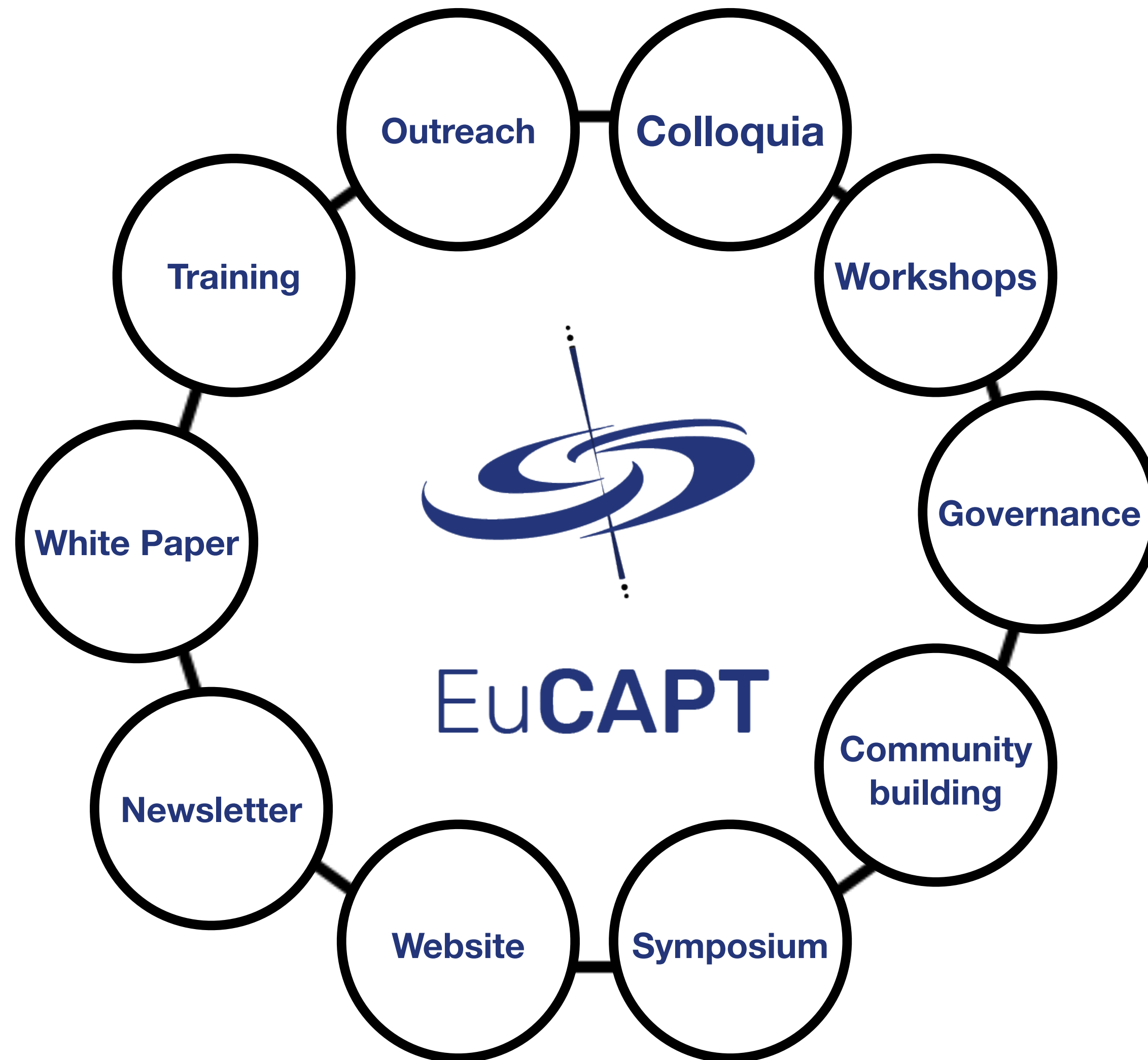
EuCAPT mission

- EuCAPT aims:
 - to bring together the European community of theoretical astroparticle physicists and cosmologists.
 - to increase the exchange of ideas and knowledge;
 - to coordinate scientific and training activities
 - to help scientists attract adequate resources for their projects
 - to promote a stimulating, fair and open environment in which young scientists can thrive



EuCAPT kick-off meeting , July 10, 2019. Agreement signed by CERN and APPEC for a new research centre for astroparticle physics theory. CERN selected as central hub for 5 years.

EuCAPT task forces



Steering committee:



Piero Ullio



Philippe Brax



Licia Verde



Vitor Cardoso



Gian Giudice



David Marsh



Andrew Taylor



Toni Riotto



David Langlois



Silvia Pascoli

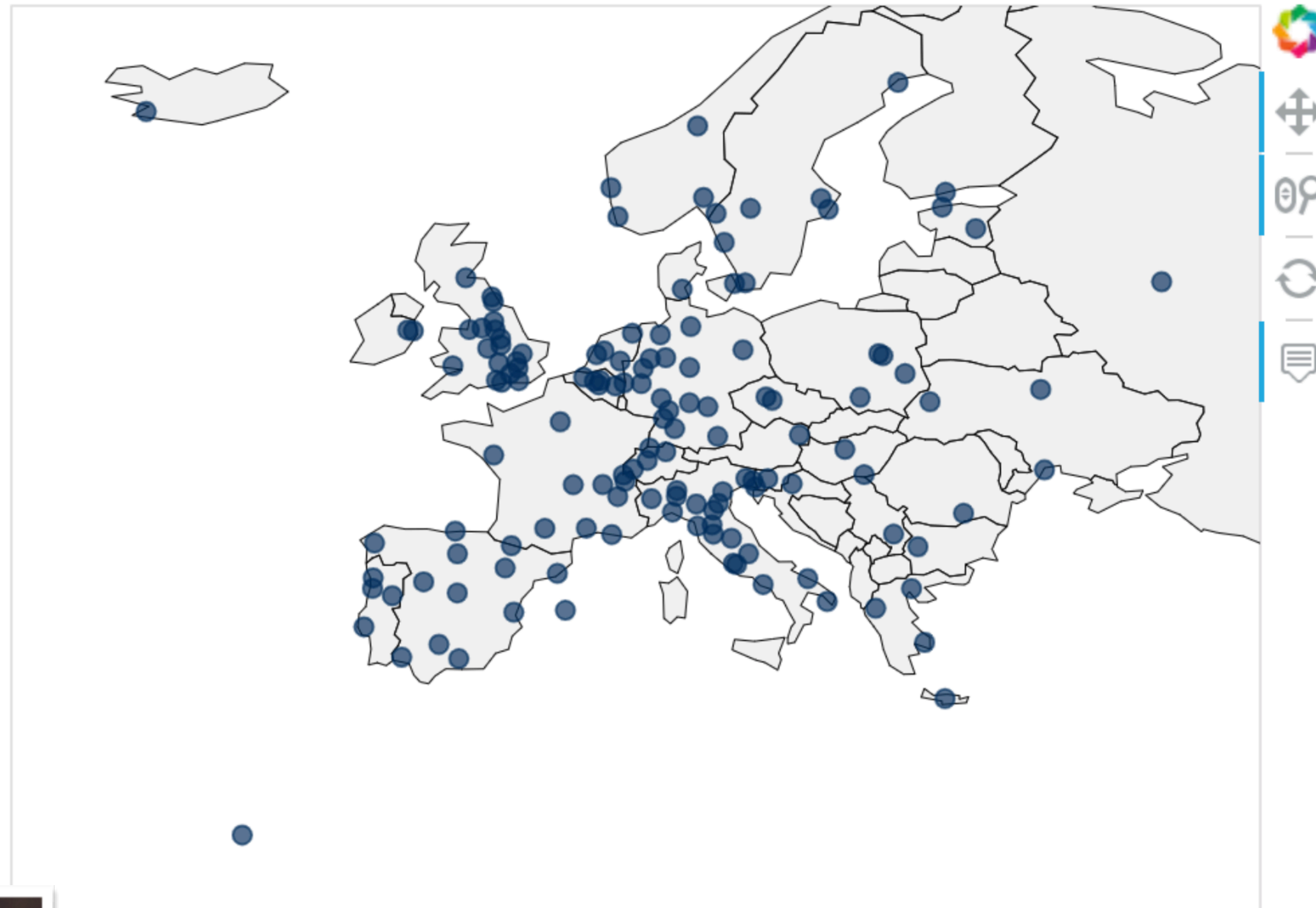
Former member:



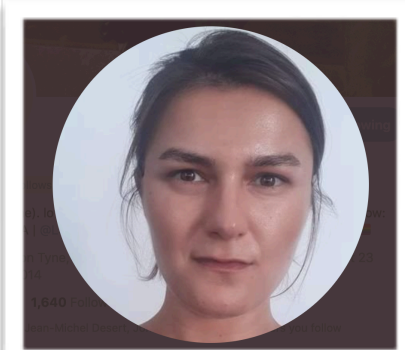
Subir Sarkar

Census

EuCAPT Census 2019



- 660 Scientists
- 28 Countries
- 209 Institutions
- First snapshot of research areas
- ‘Seed’ community




Design&Code: Niko Sarcevic (twitter.com/NikoSarcevic)

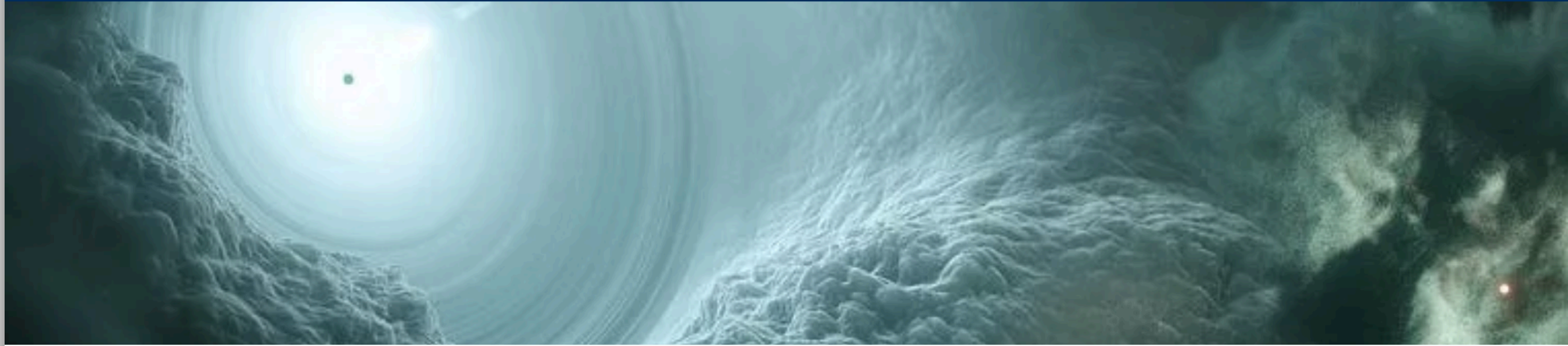
EuCAPT Website



Home Newsletter Events Virtual Meetings



The European Consortium for Astroparticle Theory



Astroparticle physics is undergoing a phase of profound transformation. We have recently obtained extraordinary results such as the discovery of high-energy cosmic neutrinos with IceCube, the direct detection of gravitational waves with Ligo and Virgo, and we have witnessed the birth of multimessenger astrophysics.

Yet we have formidable challenges ahead of us: understanding the nature of dark matter and dark energy, elucidating the origin of cosmic rays, understanding the matter-antimatter asymmetry problem, and so on. These are highly interdisciplinary problems that have ramifications in cosmology, particle, and astroparticle physics, and that are best addressed by a strong and diverse

Join the EuCAPT Astroparticle physics community on Mattermost — open-source alternative to Slack and...

October 23, 2020

RT @KaiSchmitzHEP: Announcement on a very short notice: On Thu 22 October, we will host an impromptu...

Schedule of virtual talks

Time zone: GMT +02:00 < May 2021 > Today

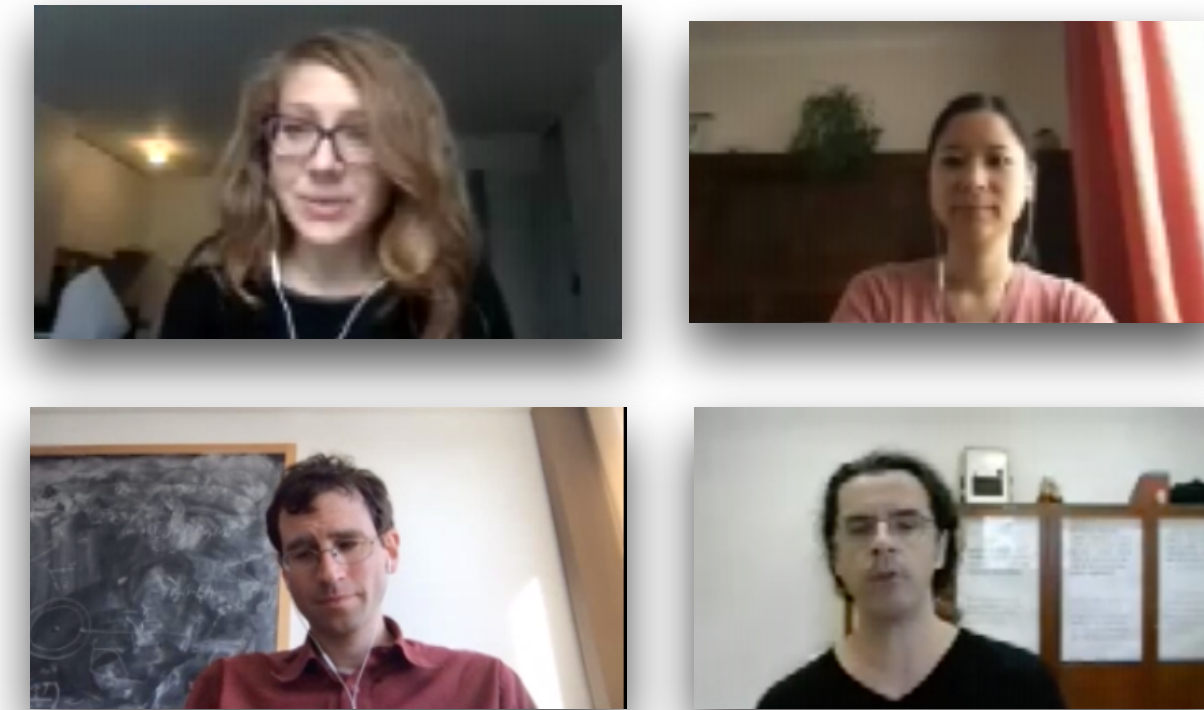
[Show past events this month](#)

Tue 4	Copernicus, Niayesh Afshordi, "Black Holes, Unscripted" 15:00 - 16:00
Wed 5	EuCAPT Symposium (Day 1/3) Juan Jose Gomez Cadenas - Searching for the Grail 15:00 - 16:00
Thu 6	EuCAPT Symposium (Day 2/3)
Fri 7	EuCAPT Symposium (Day 3/3)
Mon 10	Week 19 of 2021
Mon 17	Week 20 of 2021
Wed 19	Teresa Montaruli - Gamma-rays and Multi-Messenger astrophysics 15:00 - 16:00

EuCAPT events



- Monthly **Colloquia** via Zoom
- Mix of review talks / fresh results
- 300+ online audience, thousands of views on CDS



2 annual **thematic workshops**. This year:

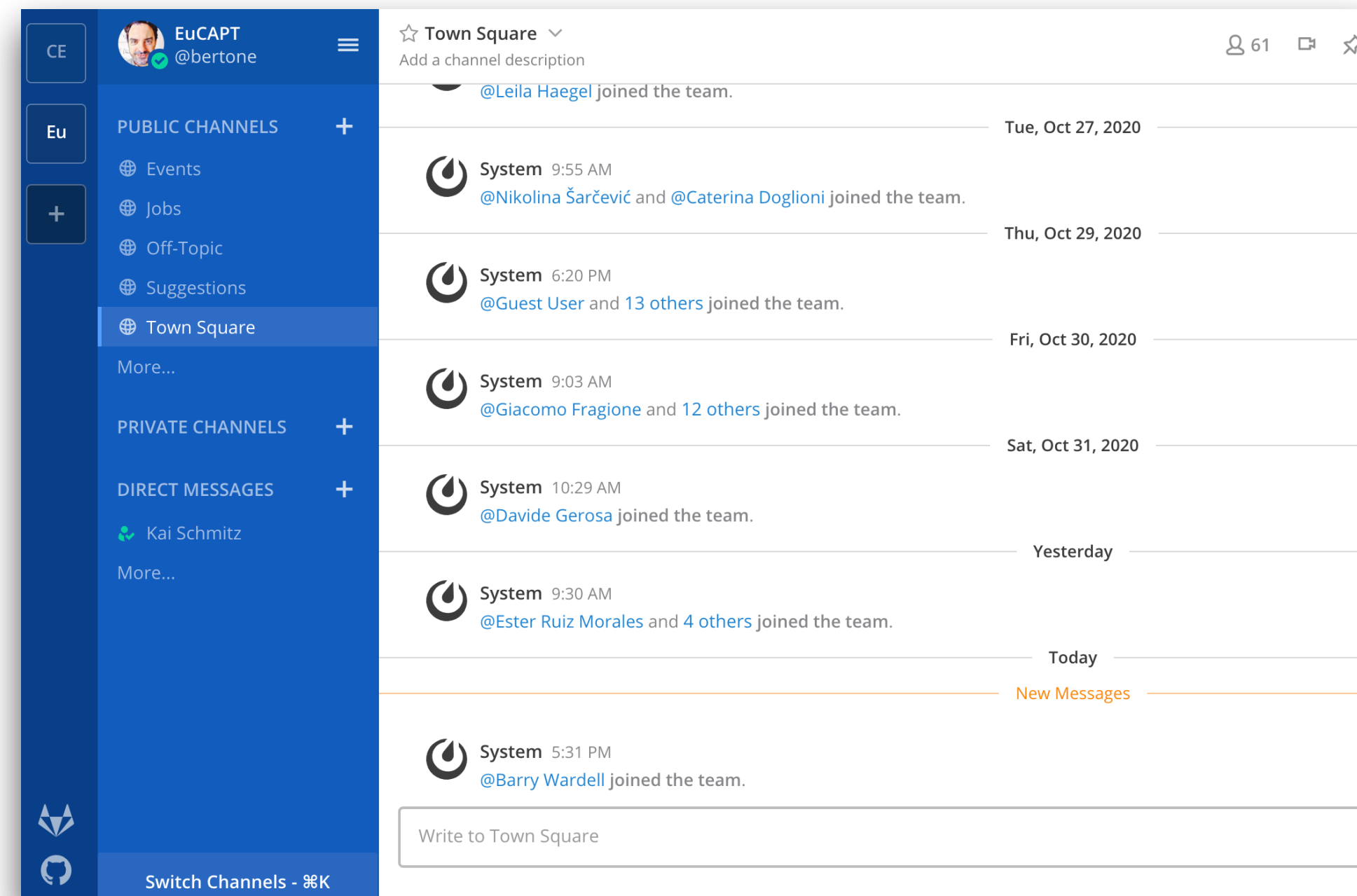
- Fall: **“Astroneutrino Physics”** @IEAP CTU, Prague
- Oct/Nov: **“From inflation and reheating to observations”**, @Saclay Paris



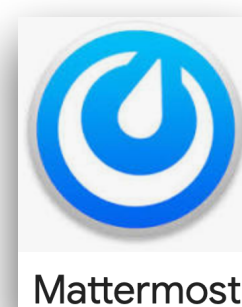
EuCAPT Community Building



Mattermost

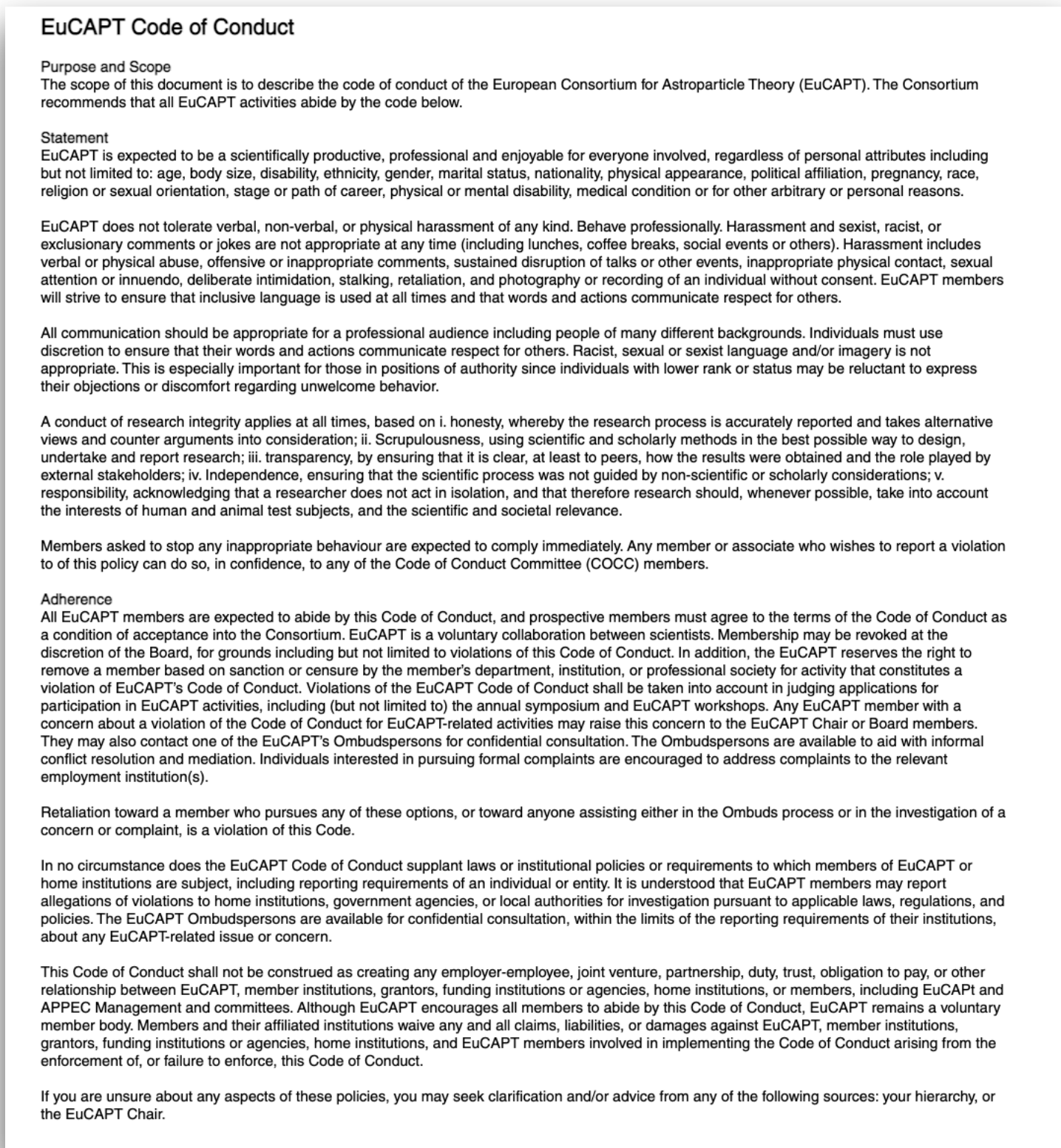


<https://mattermost.web.cern.ch/eucapt/channels/town-square>



Collaborative tool to facilitate communications, advertise jobs, events, and coordinate collaborative projects, e.g. white paper (see below)

Code of Conduct




Community Profiles

Nikolina Šarčević · för 2 timmar sedan

Community profile: Margot Brouwer

Name: Margot Brouwer
Current position: Postdoc
Affiliation: University of Groningen and Amsterdam



What is your field of research?
Observational cosmology, dark matter, weak gravitational lensing.

Nikolina Šarčević · för 2 timmar sedan

Community profile: Juan García-Bellido


Name: Juan García-Bellido
Current position: Professor
Affiliation: Universidad Autonoma de Madrid, Madrid



Nikolina Šarčević · för 2 timmar sedan

Community profile: Federico Urban


Name: Federico Urban
Current position: Postdoc
Affiliation: CEICO, FZU Institute of Physics, Prague



David Marsh · för 4 dagar sedan

Community profile: Irene Tamborra

Name: Irene Tamborra
Current position: Professor
Affiliation: Niels Bohr Institute, Copenhagen



- Community profiles:
 - 1/week
 - first 4 online today!
- “Research highlights”:
 - semi-short blog posts,
 - starting soon
- Suggestions to community@eucapt.org



EuCAPT Annual Symposium



First EuCAPT Annual Symposium

5-7 May 2021
CERN
Europe/Zurich timezone

Videoconference Rooms
and Virtual Environment

Overview

Timetable

Scientific Programme,
Confirmed Speakers and
Area Conveners

Participant List

Contribution List

Registration

Call for Lightning Talk
Abstracts

Scientific Advisory
Committee

Local Organising
Committee

EuCAPT White Paper

EuCAPT Code of Conduct

03/05/2021: new lightning talk session on Thursday + information on navigating the virtual conference environment

09/02/2021: the Symposium will be held in **fully remote mode**. Registration is open.

21/12/2020: invited speakers and area conveners announced.

The European Consortium for Astroparticle Theory (EuCAPT, <https://www.eucapt.org>) is a new initiative, with central hub at CERN, that aims to bring together the European community of theoretical astroparticle physicists and cosmologists. Our goals are to increase the exchange of ideas and knowledge; to coordinate scientific and training activities; to help scientists attract adequate resources for their projects; and to promote a stimulating, fair and open environment in which young scientists can thrive. More than 660 scientists completed the 1st EuCAPT census in January 2020, and expressed an interest in EuCAPT activities.

We are delighted to announce the first edition of the EuCAPT annual symposium, the flagship event of our consortium, that aims to provide an interdisciplinary Europe-wide forum to discuss opportunities and challenges in Theoretical Astroparticle Physics and Cosmology. We invite all scientists (PhD students, postdocs, and staff) active in these fields of research to join us remotely from May 5 to May 7, 2021. The symposium will feature invited presentations, and young scientists will have the opportunity to present their work with lightning talks. Beside scientific presentations, the programme also includes: a plenary session dedicated to the planning of a community-wide white paper, followed by thematic parallel discussions; an award ceremony for the best talks by young scientists.

Local Organising Committee

Valerie Domcke

Gian Giudice

Dorota Grabowska

Joachim Kopp

Toby Opferkuch

Sohyun Park

Alvise Raccanelli

Diego Redigolo

Ennio Salvioni

Kai Schmitz

Bibhushan Shakya

Marko Simonovic

Urs Wiedemann

Tevong You

EuCAPT White Paper



- 🌐 White Paper - Early Universe
- 🌐 White Paper - Cosmic Accelerators
- 🌐 White Paper - Dark Energy
- 🌐 White Paper - Dark Matter
- 🌐 White Paper - Dynamical Spacetimes
- 🌐 White Paper - Nuclear Astrophysics
- 🌐 White Paper - Astrostatistics
- 🌐 White Paper - Particles from stars
- 🌐 White Paper - Traveling Messengers
- 🌐 White Paper - Neutrino properties

- 10 thematic areas
- 20 coordinators
- Dedicated Mattermost channels
- Brainstorming session this afternoon
- 1st complete draft deadline July 7
- Possibility to contribute/endorse..

EuCAPT Newsletter



- Sent monthly to
~800 scientists

- Positive feedback
from the
community

- Archived on the
website

Newsletter 22 September 2020

It's a pleasure to kick-off our monthly EuCAPT newsletters, which will be sent out around 22nd of each month. The aim of these newsletters is to keep you efficiently informed of recent/upcoming theoretical astroparticle physics related developments in Europe.

General News:

EuCAPT symposium -- due to the present Covid-19 pandemic situation, our first symposium has now been postponed. We are presently arranging for this meeting to be moved to Spring next year (in a likely hybrid format - more information soon to follow).

Recent Press Releases:

Summer 2020 has seen quite a few major astroparticle physics results:

<https://www.appec.org/latest-news>

I take advantage to note a few results specifically:

["The Universe' largest particle accelerators are a whole lot bigger"](#)

["Strange gamma-ray heartbeat puzzles scientists"](#)

Upcoming Events:

The EuCAPT webpage provides an up-to-date list of upcoming European astroparticle physics events:

<https://www.eucapt.org/events>

Additionally, we would like to highlight:

[PONT Avignon 2020 conference \(7-11 Dec 2020\)](#)

["Virtual Axion Institute" - mattermost discussion forum \(+ recorded presentations\)](#)

Upcoming Seminars:

Similarly, the EuCAPT webpage provides an up-to-date list of upcoming astroparticle physics seminars scheduled in Europe:

<https://www.eucapt.org/virtual-meetings>

If you would like to add a seminar series to this list, please contact david.marsh@fysik.su.se.

Please also note the interesting broad audience talks:

["Mistakes on the way to a good idea: Peccei-Quinn Symmetry. A tribute to Roberto Peccei"](#)

(24 Sep @6pm CET):

["Two-body dynamics and gravitational waves in general relativity"](#) (28 Sep @9am CET- registration necessary)

Job Opportunities:

<https://indico.mitp.uni-mainz.de/event/223/>

https://jobs.dsi.infn.it/dettagli_job.php?id=2811

<https://inspirehep.net/jobs/1817620>

<https://nbia.nbi.ku.dk/programs/interactions>

<https://www.epfl.ch/labs/phe/en/phd-positions/>

Call for [EuCAPT Volunteer](#), (PhD or postdoc)- the deadline for applicants is 18th Oct (those interested should contact david.marsh@fysik.su.se)

We appreciate that the current times are rather testing, and that there's a strong need to have efficient information flow around the community. With this in mind please feel to contact us on particular information that you feel would be suitable for circulation in future newsletters (eucapt.info@gmail.com).



October EuCAPT newsletter (the pulse!)

Continuing our regular EuCAPT newsletters, this is our October issue. The newsletter is aimed at keeping you informed of recent/upcoming theoretical astroparticle physics related developments, with focus on Europe.

General News:

The new date for the Inaugural EuCAPT Symposium is 5-7 May 2021 (a hybrid format is planned).

Recent Press Releases:

Recent months have seen quite a few major astroparticle physics results:

<https://www.appec.org/latest-news>

Of particular note are:

["Massive Gravitational Wave Binary"](#)

["New Feature in UHECR Spectrum Uncovered"](#)

Upcoming Events:

The EuCAPT webpage provides an up-to-date list of upcoming astroparticle physics events:

<https://www.eucapt.org/events>

Upcoming Seminars Calendar:

We now provide a virtual meetings calendar to help advertise relevant

upcoming meetings:

<https://www.eucapt.org/virtual-meetings>

(if you wish additional events to be added, please contact us)

Discussion Forum

We invite you to join our EuCAPT discussion forum on mattermost: [link](#).

This has been set up to facilitate open discussion within our EuCAPT community.

Job Opportunities:

[INSPIRE](#)

[OKC](#)

[NBI](#)

[MPIK](#)

[EPFL](#)

We appreciate that these are difficult times, and that there's a strong need to have efficient information flow around the community. With this in mind please feel to contact us with any information that you feel may be suitable for circulation in future newsletters (eucapt.info@gmail.com).



The future of EuCAPT



- As anticipated, need to update governance to deal with large number of institutions
- **Proposed change in governance:**
 - **Invite institutions to join and indicate 1 representative**
 - **The representatives form a 'Council' that votes for director and SC members**
 - SC is the executive board, organised around task forces
 - Director chairs the SC
- Only obligation for participating institutions:
 - nominate a representative
 - keep updated list of members
- We need to strike a balance between being inclusive/bottom-up/democratic vs lightweight/dynamic/pragmatic

Brainstorming

- Via Mentimeter:

<https://www.mentimeter.com/s/14a05b6cc5a41a87ed513de55aa7ad4c/9c794202b04d/edit>

- Via Q&A below 🙋

- Via Mattermost

- Via email..

EuCAPT Training



- Create list of international master programmes relation in astroparticle theory
 - For PhDs
 - Explore COFUND
 - Create list of national PhD programmes
 - Facilitate exchange programmes during PhDs
 - Create list of Summer and winter schools
 - Identify contacts in various European labs to keep updated list of training national programmes.
 - Suggest interdisciplinary directions for training
 - Organize “how to give a talk” webinars, aimed at young researchers
-