

Astroparticle Physics European Consortium

General Assembly

4 May 2023 report from GA chair

Topics addressed in chair's report:

- HEP Sustainability Report
- ACME
- JENA Computing Workshop
- Next GA meetings

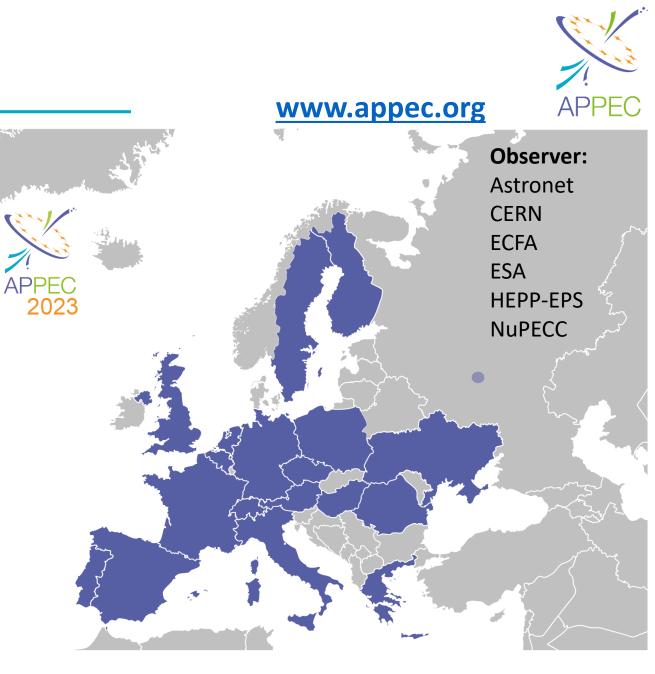
main topics today:

- APPEC midterm review
- Status APPEC MoU

APPEC

AstroParticle Physics European Consortium

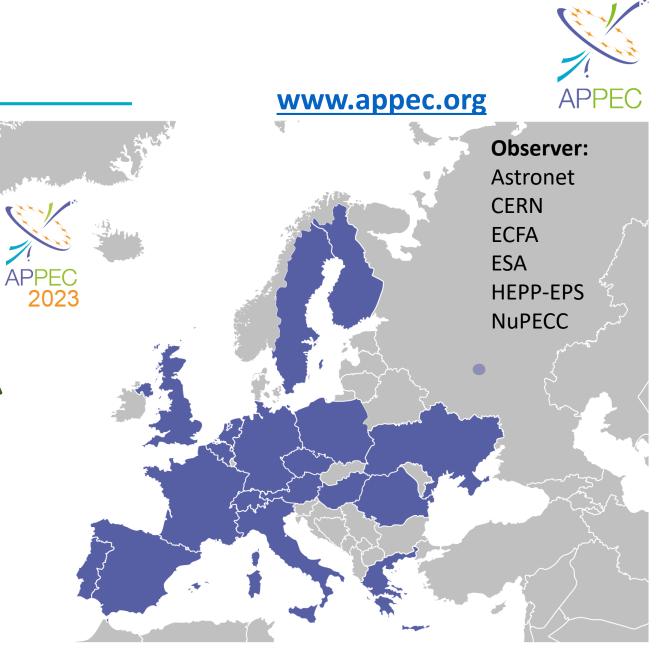
- an international coordinating structure, founded in 2012
- Based on MoUs by all partners and an APPEC Common Fund with c. 70k€/year
- 18 (+1 suspended) member countries with 22 funding agencies
- 3 bodies:
 - General Assembly with Observers
 - Scientific Advisory Committee;
 - Joint Secretary



APPEC

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APPEC, summary of current activities

APPEC

- > APPEC roadmap update: Main topic today
- Renewal of the APPEC MoUs: second main topic today
- > INFRA-2023-SERV-01-02: Common Proposal with European Astronomy (ACME) submitted: slides
- > JENA Computing Workshop: 12-14/6/2023 in Bologna, Italy: slides
- HECAP Sustainability Report: slides
- > "Evaluation" of JENA Eols http://www.nupecc.org/jenaa/?display=eois (the ENA chairs will follow closely the activities)
- > ESFRI Landscape Analysis (APPEC Input submitted early April): see attached document
- ECFA Detector R&D Implementation https://indico.cern.ch/event/957057/page/27294-implementation-of-the-ecfa-detector-rd-roadmap
- NuPECC Long Range Plan: 153 inputs <u>https://indico.ph.tum.de/event/7050/contributions/</u> now wg-sessions
- ASTRONET Roadmap: glossy brochure <u>https://www.astronet-eu.org/</u> and long version in print
- SNOWMASS / P5: APPEC presentation at Town Hall meeting <u>https://indico.physics.lbl.gov/event/2382/</u>
- IYBSSD: <u>https://www.iybssd2022.org/en/home/</u> (closure event@CERN 6/10/23): action?
- Stavros Katsanevas Symposium 1/6/2023 <u>https://indico.in2p3.fr/event/29126/program</u>
- > Support of Astroparticle Physics in Ukraine: needs action!
- > Next GA meetings

ACME



Astrophysics Centre for Multimessenger studies in Europe (ACME)

HORIZON-INFRA-2023-SERV-01-02

- Topic: better access of users to RI services to advance frontier knowledge, activities to improve and harmonize the access, and training for scientists.
- Maximum EU contribution per project: 14.5 million euros.
- Scientific domain of interest: Astronomy & Astroparticle physics.
- Submission on March 9th, feedback expected in September

Objectives: The Astronomy and Astroparticle physics research infrastructures involved in this proposal will lay the foundations for building a new ecosystem for a deepened, stronger and long-term vision collaboration with the aim to:

1. implement the **European roadmaps'** recommendations and act as a pathfinder to broaden, improve and align the accesses to the respective RI services and data

2. provide a harmonized transnational and virtual access to world-class RIs

3. develop centers of expertise

4. improve the **science data products** management

5. develop and improve interoperable **cyberinfrastructures** for alert sending and better manage **coordinated observations**

6. provide **training** for a new generation of scientists and engineers

7. open the astrophysics data sets to other disciplines and increase **citizen engagement** in scientific research

7 Work Packages (WP) corresponding to the objectives above

Consortium: 41 partners, 15 countries, over 30 research infrastructures (observatories and detectors, cyberinfrastructures and expertise centers) from Astronomy and Astroparticle domains, covering GW, Gamma & X-rays, neutrinos, CR, radio, optical.

from Julie

04/05/2023

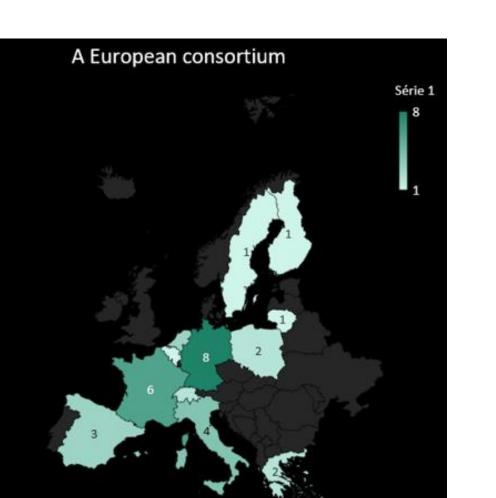
from Julie

Astroparticle & Astronomy institutions

ACME

Centre National de la Recherche Scientifique Université Paris Cité Canada France-Hawaii Telescope Université Paul Sabatier Toulouse III Observatoire de Paris Université Catholique de Louvain Max-Planck Gesellschaft zür Forderung **Deutsches Elektronen Synchrotron** Commissariat à l'Energie Atomique et aux **Energies Alternatives** Narodowe Centrum Badan The University of Manchester Gran Sasso Science Institute Université de Genève Joint Institute for Very Long Baseline Friedrich Alexander Universität Instituto de Fisica de Altas Energias The Open University Bergische Universität Wuppertal Istituto Nazionale Di Astrofisica Ethniko Asteroskopeio Athinon **European Gravitational Observatory**

Karlsruher Institut für Technologie Ludwig Maximilians Universität Stichting Nederlandse Wetenschapp University of Cambridge Uppsala Universitet Stichting International Lofar Institut de Radio Astronomie Istituto Nazionale di Fisica Nucleare Universidad de Santiago de Compostella Humboldt Universität Zu Berlin Ventspils Augstskola Centro Nacional de Informacion Cherenkov Telescope Array The Queen's University Of Belfast Uniwersytet Mikolaja Kopernika Aalto University Ecole Polytechnique Fédérale de Lausanne Aristotelio Panepistimio Thessalonikis Taras Shevchenko National Institute of Radio Astronomy of Kharkiv





JENA Computing Workshop





- JENA Computing Workshop in Bologna, Italy: 12-14 June 2023
- <u>https://agenda.infn.it/event/34738/</u>
- JENAS 2022: There is a need for a European Workshop on (federated) Computing!
- Covering all aspects of (federated) computing by talks, round table discussions, initiation of JENA working group, ..
- Mainly in-person, expected c. 100 participants, by invitation, place for c. 20 APPEC delegates (please name your national computing experts)
- Moderate fee (150 €)
- → APPEC representatives for expert members in organization committee are Stefano Bagnasco (Torino) and Gonzalo Merino (PIC)



At the Joint ECFA-NuPECC-APPEC (JENA) Seminar in May 2022 in Madrid (<u>https://indico.cern.ch/event/1040535/</u>), both the plenary presentations and the closed session of funding agency representatives revealed that there is an increased need for discussions on the strategy and implementation of European federated computing at future large-scale research facilities.

HECAP Sustainability Initiative

APPEC

- Sustainability In HECAP
- Document from Sep. 2022 (see at indico or web page)
- <u>https://sustainable-hecap.github.io/</u>
- Astroparticle Physics mentioned in title , but...
- Contacted the editors via given email address: <u>hep-sustainability@protonmail.com</u> (Peter Millington, UKRI)
- They would acknowledge contribution from APPEC, but we didn't got any timeline....
- Should we / will we interact with the initiators and contribute? And how we should organize that?

Striving towards Environmental Sustainability in High Energy Physics, Cosmology and Astroparticle Physics (HECAP)

Important: Statement of intent

The climate crisis and the degradation of the world's ecosystems require humanity to take immediate action. Given this, the High Energy Physics, Cosmology and Astroparticle Physics (HECAP) communities have a responsibility to limit the negative environmental impacts of their research.

This **incomplete document** is being developed as part of a grassroots initiative *Striving towards Environmental Sustainability in High Energy Physics, Cosmology and Astroparticle Physics.* It is intended to be a synthesis of current data and best practices from research in climate science and sustainability, as applied to our field to the best of our ability as physicists, and a reflection on the roles that our community can play in limiting negative environmental impacts due to our research work and scientific culture. Its scope is inspired by the holistic approach of annual environmental reports of major institutes, which include emissions directly related to research and collateral emissions, such as from personal commutes and institutional catering. Addressing this broad scope requires input from across the community, in particular to identify the technical challenges of limiting the environmental impacts of our current and future research infrastructure. **We need your help to complete it.**

Next GA meetings



- GA 2-2023: 28/29 June 2023 in Warsaw, Poland (face-to-face) -- Leszek Roszkowski
 - Wednesday afternoon arrival and GA meeting part 1, dinner
 - Thursday morning ceremonial event with ministry level to celebrate
 - Re-enter of Poland in APPEC (2019)
 - Birthday of Copernicus
 - New Copernican Academy in Poland
 - ASTROCENT is entering a new era
 - Thursday afternoon GA meeting part II, departure
- GA 3-2023 late summer online ?
 - Topics to be defined
- GA 4-2023: late November, early December in Brussels, Belgium (face-to-face) -- Krijn de Vries, Giacomo Bruno
 - Usual GA meeting
 - Attached an event with EU commission, press and representatives of funding agencies to present the roadmap update (discussed later)