



News from APPEC

Alexander Burgman (Stockholm Univ.)



What is APPEC

AstroParticle Physics
European Consortium
appec.org



... is a consortium of funding agencies, national government institutions, and institutes from 18 European countries, responsible for **coordinating and funding national research efforts in astroparticle physics**.

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Gravitational
waves

Matter-antimatter
asymmetry

High-energy
neutrino sources

Multi-messenger
astronomy

Earliest phases
of the Universe

Dark
Matter

Dark
Energy

Proton
decay

Cosmic
ray origin

Neutrino
properties

APPEC Consortium



CAMK Nicolaus Copernicus Astronomical Center of the Polish Academy of Sciences, **Poland**

CEA Commissariat à l'énergie atomique et aux énergies alternatives, **France**

CNRS Centre National de la Recherche Scientifique, **France**

DESY Deutsches Elektronen-Synchrotron, **Germany**

FRS-FNRS Fonds de la Recherche Scientifique – FNRS, **Belgium**

FWO Fonds Wetenschappelijk Onderzoek, **Belgium**

FCT Fundação para a Ciência e a Tecnologia, **Portugal**

HIP Helsinki Institute of Physics, **Finland**

IEAP-CTU Institute of Experimental and Applied Physics, **Czech Republic**

IFIN-HH Horia Hulubei National Institute of Physics & Nuclear Engineering, **Romania**

INFN Istituto Nazionale di Fisica Nucleare, **Italy**

KIT Karlsruher Institut für Technologie, **Germany**

LSC Laboratorio Subterráneo de Canfranc, **Spain**

NASU National Academy of Sciences of Ukraine, **Ukraine**

NOA National Observatory of Athens, **Greece**

NWO The Netherlands Organisation for Scientific Research, **Netherlands**

ÖAW Austrian Academy of Sciences, **Austria**

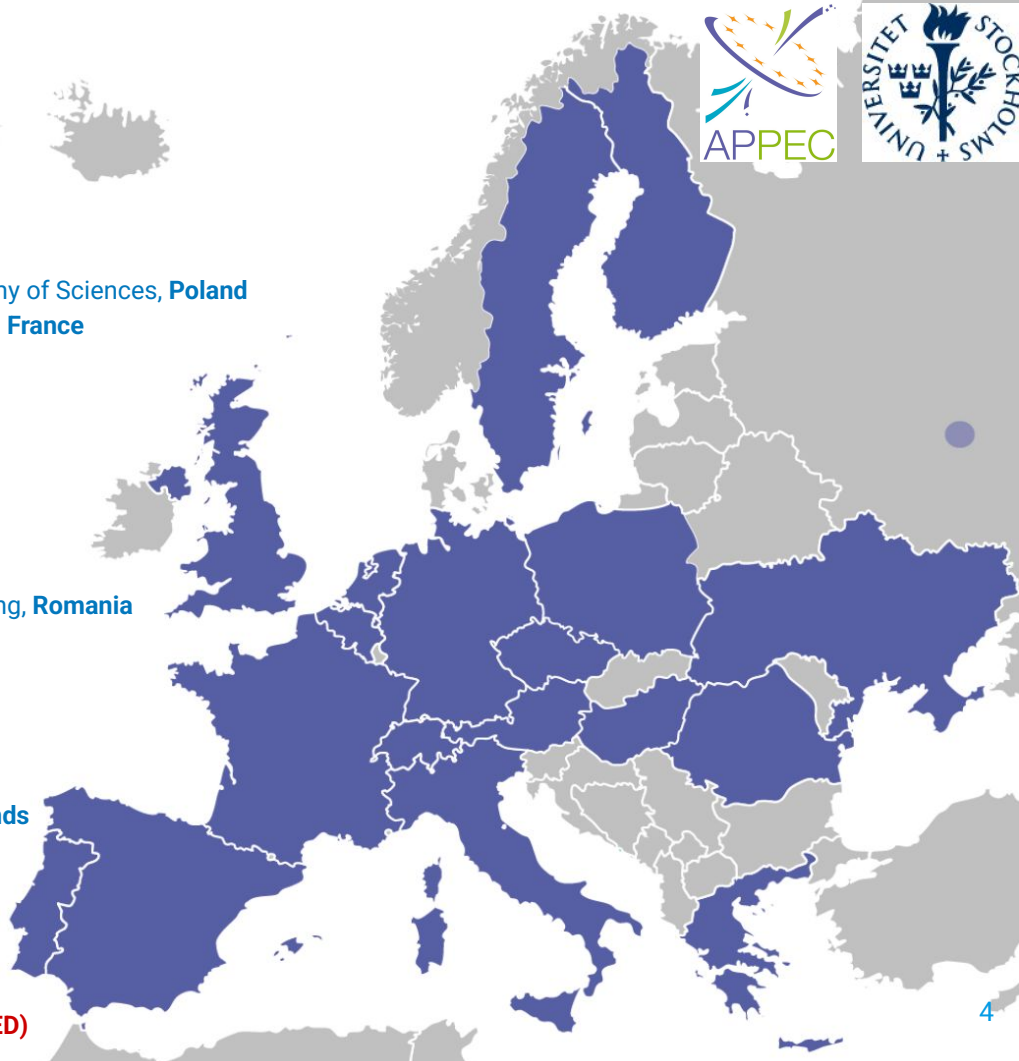
SNF Schweizerische Nationalfonds, **Switzerland**

STFC Science & Technology Facilities Council, **United Kingdom**

VR Vetenskapsrådet Swedish Research Council, **Sweden**

Wigner RCP Wigner Research Center for Physics, **Hungary**

JINR Joint Institute for Nuclear Research, Dubna, **Russia (SUSPENDED)**



APPEC Structure

General assembly

Joint secretariat

Scientific advisory committee

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Strategic, supervisory, steering organ of APPEC

Chair: Carlos Peña Garay (LSC)

Vice-chair: Leszek Roszkowski (CAMK)

28 member-representatives

Sweden/VR: Alex Burgman (SU)

Invited

- Chair of APPEC SAC: Aldo Ianni, LNGS-INFN
- Chair of EuCAPT: Silvia Pascoli, INFN

Observers CERN, ESO, Astronet,
EPS-HEPP, NuPECC, ECFA

Next meeting:
Stockholm (VR)
Dec 8th–9th

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Scientific advisory committee

Executive body of APPEC

General secretary: Julie Epas (APC)

Members are heads of *functional centres*

- APC
- DESY
- INFN-LNGS
- KIT
- LSC
- Nikhef

APPEC Structure

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Scientific advisory committee

Examines and reports on issues of strategic scientific importance, proposes programmes or projects for adoption as activities of APPEC.

Chair: Aldo Ianni (INFN-LNGS)

23 Members (elected ad-personam)

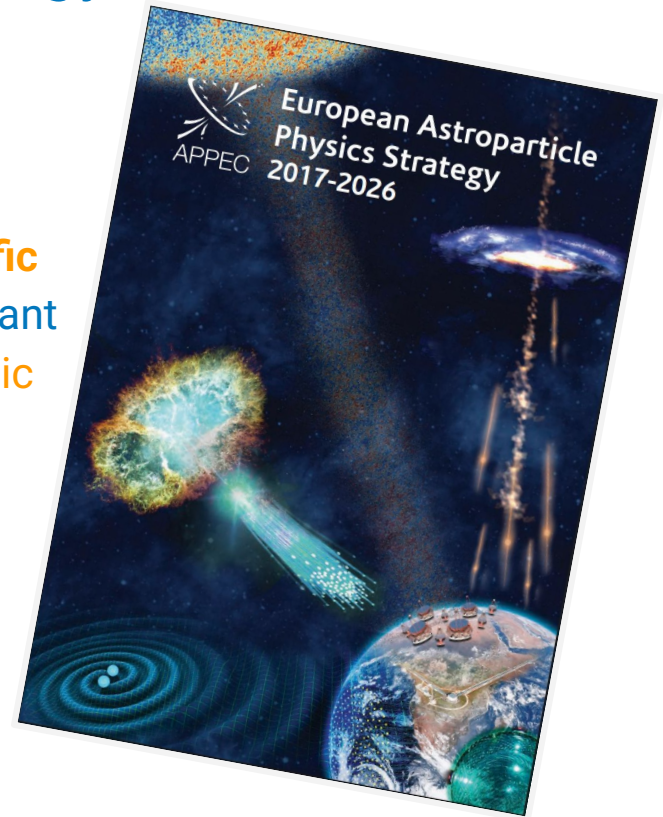
Swedish member: Chad Finley (SU)

European Astroparticle Physics Strategy 2017–2026

21 recommendations endorsed by the astroparticle community, and resource & funding aware — recommendations addressing, in addition to the **scientific issues**, crucial **organisational aspects** as well as important **societal issues** such as gender balance, education, public outreach and relations with industry.

Approved: Nov 2016

appec.org/european-astroparticle-physics-strategy-2017-2026



Mid-term update to: European Astroparticle Physics Strategy 2017–2026

High-impact events:

- Multimessenger observation of neutron star merger
- Maturing of European gravitational wave telescope
- Global pandemic

Not fully repeat 2017-2026 strategy, but discuss relevant developments since 2017 and provide an **updated set of recommendations.**

Approved: summer 2023

appec.org/mid-term-review



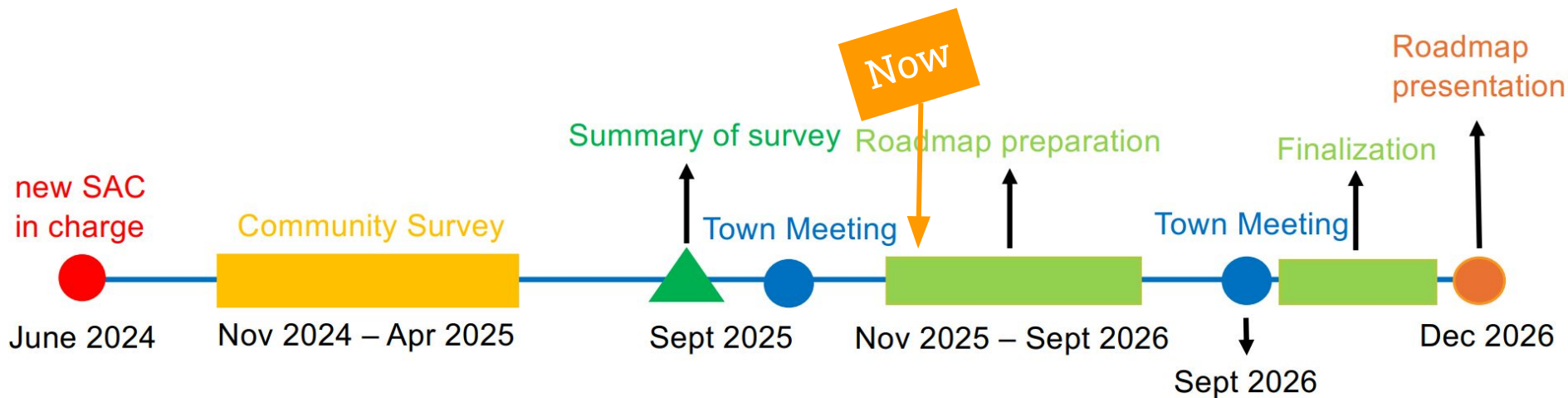
European Astroparticle Physics Strategy 2027–2036

*Provide recommendations endorsed by the astroparticle physics community to the funding agencies – recommendations addressing, in addition to the **scientific issues**, crucial **organisational aspects** as well as important **societal issues** such as **gender balance**, **education**, **public outreach** and **relations with industry**.*

- Written by (extended) SAC
- Approved by GA

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Complementary
topics

Scientific topics

Topic									
Cosmic rays	A. Nelles	M. de Naurois	I. Maris	P. Chadwick	S. de Jong	Piotr Homola			
Gamma rays from cosmic sources	M. de Naurois	P. Chadwick	I. Maris	D. Paneque					
Neutrino astrophysics	A. Nelles	F. Šimkovic	I. Tamborra	A. Heijboer	C. Finley	I. Maris	M. Spurio		
Gravitational waves	E. Tournier	M. Branchesi	E. Cuoco						
Dark matter search (direct&indirect)	A. Ianni	C. Weinheimer	M. Kuźniak	N. Rossi					
Neutrino properties	O. Cremonesi	C. Weinheimer	J. Kopp	F. Šimkovic	M. Kuźniak	N. Rossi	C. Gonzalez Garcia	O. Lahav	A. Ianni
CMB and early universe	S. Escoffier	S. Loucatos	Martina Gerbino	J-Baptiste Melin	M. Drewes				
Dark energy and alternative theories of gravity	S. Escoffier	O. Lahav							
Astroparticle theory	J. Kopp	C. Gonzalez Garcia							
Multi-messenger observations	M. Branchesi	O. Lahav	A. Ianni	I. Tamborra	M. Spurio				
Instrumentation, technology and infrastructure	A. Ianni	E. Tournier	I. Stekl	F.A. Danevich	G. Ambrosi				
Artificial Intelligence	E. Cuoco	O. Lahav	Christoph Weniger						
Computing and data policies	A. Nelles	I. Maris	E. Cuoco						
Open science and citizen science	Piotr Homola	S. de Jong	Rosy Mondardini	A. Ianni	Stephen Serjeant				
Ecological and social impact	S. de Jong	A. Ianni							
Interdisciplinary	Piotr Homola	A. Ianni							

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Strategy '27–'36 Townhall meeting

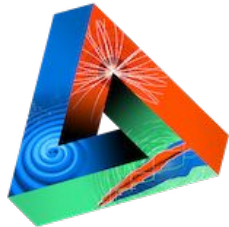
Townhall meeting as kick-start for strategy writing process.

- Sep 2025, Zaragoza
indico.cern.ch/event/1516919
- Round-table discussions
- Well-attended, valuable input to strategy work



Stay tuned for the briefing book, and next townhall meeting (Sep 2026) for finalizing the strategy!

JENA(S)



JENAA

Joint ECFA-NuPECC-APPEC Activities



Joint ECFA-NuPECC-APPEC

Join forces not only to solve the questions on the **smallest and the largest structures in nature**, but also to improve on **diversity, working conditions** and **societal impact**

JENAS: JENA Symposium, RAL Apr 2025

*The many **synergies** between Particle, Nuclear and Astroparticle Physics are addressed in the third Joint Symposium. Physics **highlights**, **future projects** and **strategies** as well as **challenges** in detector technology and computing are discussed, together with **progress** on seven approved joint activities.*

Attended by European Commission:

***Collaborate!** Find synergies between the three fields to promote each others' relevance and impact.*

APPEC Tech Forum: Vacuum & Cryogenics

IUVSTA Workshop 109: APPEC Tech Forum Vacuum & Cryogenics – Industry meets Academia

Nov 24th-26th 2025 (now!), Maastricht, Netherlands

*Meeting ground for the academy and tech industry to
explore collaborations in vacuum and cryo-technology.*



Conclusion

APPEC is working towards the future of astroparticle physics research in Europe

Main activity in 2026:

European Astroparticle Physics Strategy 2027–2036

Stay tuned for the briefing book, and join the:

Town-hall meeting in Sep 2026 to have your say!

And subscribe to the newsletter:

appec.org/latest-news/newsletters

Thank you!