

APPEC SAC Roadmap Community Inputs Survey

Thank you for participating in this survey. Your feedback will help shape the future APPEC Roadmap (2027-2036). The scientific and technical topics discussed in the current APPEC Roadmap are listed below as references.

European Astroparticle Physics Strategy 2017-2026

<http://www.appec.org/wp-content/uploads/Documents/Current-docs/APPEC-Strategy-Book-Proof-19-Feb-2018.pdf>

European Astroparticle Physics Strategy 2022-2026 Mid-Term Update

<https://indico.cern.ch/event/1339060/attachments/2742922/4774302/APPEC%20Roadmap%20Midterm%20Oct2023%20web.pdf>

Scientific topics

- Cosmic rays
- Gamma rays from cosmic sources
- Neutrino astrophysics
- Gravitational waves
- Dark matter search (direct and indirect)
- Neutrino properties
- Cosmic microwave background and early universe
- Dark energy or alternative theories of gravitation
- Astroparticle theory

Transverse and technical topics

- Multi-messenger observations
- Detectors and infrastructures
- Space technologies
- Computing and data policies
- Open science and citizen science
- Ecological and social impact

The following questionnaire contains 29 questions (11 questions require an answer)

* Obbligatoria

Personal information

1. Age (years) *

- 20-29
- 30-39
- 40-49
- 50-60
- Over 60
- Prefer not to say

2. Gender *

- Male
- Female
- Non-binary
- Prefer not to say

3. Career Stage *

- PhD Student
- Post-doc
- Researcher (Fixed Term)
- Researcher (Tenured)
- Faculty
- Faculty not tenured
- Non-research Staff
-

4. Are you answering this survey on behalf of *

- Collaboration
- National body
- Institution/Research group
- Yourself
-

5. Please specify your declared affiliation in the item above

6. Fields of expertise (multiple choice) *

- Cosmic rays
- Gamma rays from cosmic sources
- Neutrino astrophysics
- Gravitational waves
- Direct dark matter search
- Indirect dark matter search
- Neutrino properties
- Cosmic microwave background and early universe
- Dark energy or alternative theories of gravitation
- Astroparticle theory
- Theory beyond the Standard Model
-

Current APPEC Roadmap (2017-2026)

Please review the current APPEC Roadmap and related information available on the official APPEC website linked at the beginning of the questionnaire

7. Do you know about the APPEC Roadmap (2017-2026)? *

Yes

No

8. Do you find the current APPEC roadmap useful for promoting your research activity? *

Not useful

Useful but not crucial

Useful

Useful and crucial

No opinion

9. Do you find the current APPEC roadmap useful for putting forward the strategy and coordination of your institution at the national and/or international level? *

Not useful

Useful but not crucial

Useful

Useful and crucial

No opinion

10. Please, provide motivation regarding the previous question.

11. Updates to Current Roadmap:

Provide updates within your field of expertise that should be included for the new roadmap (e.g., experiment progress, updated timelines, etc.). Please use bullet points.

12. Additional Topics for the Next Roadmap

Are there other topics you feel were underrepresented or missing in the past roadmap? Please provide bullet points.

Inputs for the Roadmap (2027-2036)

13. Which to you is the most important ongoing project you would like APPEC to continue supporting?

14. At what level are you involved in the recommended project?

- Active member
- Interested to collaborate
- Not involved

15. Key developments in the next decade

Describe key developments you expect in the next decade (experimental techniques, scientific expertise, theory, simulations and analyses, ...)

16. Emerging technologies

Describe emerging technologies that your field might require or will provide in the next decade. Please, use bullet points.

17. New EU research infrastructures

What new large EU research infrastructure could benefit the astroparticle physics related research programs? Please, use bullet points.

18. Upgrades to existing EU large research infrastructures

What upgrades are important for supporting astroparticle physics related research programs? Please, use bullet points.

19. Synergies to explore

What new synergies between APPEC and other roadmaps are important to explore or develop? Please, use bullet points.

20. Impact of forthcoming results

Describe how forthcoming results from experiments in your field of expertise, currently taking data, could affect the strategy for next-generation projects

21. Planned and proposed projects/experiments

Indicate one or two planned/proposed projects/experiments that you believe will contribute significantly to your field in the short or long-term future. Describe the maturity of the projects, the tentative timeline, and any critical or near-critical path elements. Please use bullet points.

22. Economic and societal impact

Describe the possible impact of significant projects in your field of expertise on the economy and society, e.g., through interdisciplinary or technological connections.

23. Other impacts (data management, computing, environment, ...)

What do you consider most relevant as other societal impact for your research field?

Coordination and Management

24. Enhancing community voice

How can APPEC better assist in having the voice of the astroparticle physics community better heard? Are there any coordination or organization activities beyond what was done for the previous roadmaps that would be needed? Please, use bullet points.

25. European level coordination *

Do you think that APPEC should have different structure and coordination role at the European level?

- Yes
- No
- No opinion

26. Structure for the European level coordination *

Are legal structures such as ERIC a good example of coordination?

For details on ERIC, see

https://research-and-innovation.ec.europa.eu/strategy/strategy-2020-2024/our-digital-future/european-research-infrastructures/eric_en

- Yes
- No
- No opinion

27. European level coordination

Motivate your previous answer

28. Any additional comment

Reserved space for additional comments

29. This is an anonymous questionnaire, but if you want to be contacted, please add an email address

Conclusion

Thank you for your valuable input. Your feedback will play a crucial role in shaping the future of astroparticle physics research.

Please submit your responses by the end of November 2024. For more information, visit our official website <https://www.appec.org/>.

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