



Advances in Space AstroParticle Physics – 2nd edition

Frontier Technologies for Particle Measurements in Space

Sant Feliu de Guíxols (ES) 12-16 May 2025

<https://indico.cern.ch/e/asapp2025>



Second Bulletin – 27 February 2025

Abstract submission is open

Submission deadline extended to 10th March, 2025

The ASAPP 2025 International Conference aims in reviewing the progresses in **design, development, integration and test of instrumentation for measurement of particles and high-energy radiation in Space.**

The event is planned to be held with in-person participation and plenary talks only with large slots dedicated to questions and discussions, taking advantage of conference venue and social events to foster constructive discussions between participants. During the conference **round tables** will be organized to encourage scientific discussions for the near future projects and potential future projects and mission opportunities. More details will be announced through the conference webpage.

Scientific program

The conference organizers invite the community to submit abstract proposals on R&D, Instrumentation and Missions for

- Direct and Indirect **High-Energy Cosmic Ray** Measurements in Space
 - Direct **Low-Energy Cosmic Ray** Measurements in Space
 - Direct **hard-X-Ray and Gamma-Ray** Measurements in Space

and **AI & data computing approaches** for Particles, hard-X-Ray and Gamma-Ray Measurements in Space

In consideration of the variegate approaches that have been consolidating in the current era of space observations, contributions that target all opportunities of space platforms will be addressed, from cubesats and nanosatellite constellations up to large-size space missions, including stratospheric balloon flight missions.

Important dates

- 10 March 2025** - Abstract submission closes
- 20 March 2025** - Abstract acceptance communication
- 24 March 2025** - Early-bird registration closes
- 11 April 2025** – Deadline for pre-reserved rooms at conference venue
- 30 April 2025** - Regular registration closes
- 11 May 2025** - Late registration closes
- 12 - 16 May 2025** - Conference runs
- 15 September 2025** - Proceeding submission closes

Conference venue and accommodation

The conference will be hosted at **Hotel Eden Roc**, a charming residence nestled along the picturesque Costa Brava coastline in the town of Sant Feliu de Guíxols with a large variety of amenities for services. To benefit of all the informal discussions and of the fruitful exchange of ideas opportunities that such a place and such a stay could inspire, we strongly suggest as accommodation, during the conference, the Hotel Eden Roc. Rooms of the hotel have been pre-reserved for the participants of the conference.

We suggest to register to the conference and book the hotel as soon as possible. **Pre-reservation of the rooms will expire on 11 April 2025.** Details on reservation are detailed in the conference [webpage](#).

Please follow the instructions on the conference webpage to register for the conference. All information on the conference will be communicated through the conference website <https://indico.cern.ch/e/asapp2025>, the Indico service by CERN, and institutional accounts or lists of the organizers (ifae.es, infn.it, asi.it).





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Conference proceedings

Conference proceedings will be published in a Special Issue hosted by the journal MDPI Particles.

Particles is an international, peer-reviewed, open access journal covering all aspects of nuclear physics, particle physics and astrophysics science, and indexed in **Scopus** and **Clarivate**.

Participation of young researchers

The participation of young researchers is warmly welcome. Two prize of 400 EUR each will be sponsored by MDPI *Particles* and will be awarded as "**Best presentation from young researchers**" and "**Best poster from young researchers**" awards. Eligible researchers are presenters of oral contributions or posters at the conference that will have no more than 3 years of research activity after their Ph.D. at the date of the conference, and Ph.D. students. **Fee waivers for young participants** from sponsorship by the AstroParticle Physics European Consortium (APPEC) are being considered, and more details will be announced through the conference webpage.

Exhibitors

The ASAPP2025 conference offers sponsorship opportunities for industrial partners. An exhibition area will be set up with stands equipped with tables, chairs, electrical power, and networking. More information available in the conference website.

Round tables

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Confirmed solicited contributions

Isabel Pérez Grande (AEE)	Introduction from the Director of Science, Technology and Innovation of the Spanish Space Agency (AEE)
Jeremy Perkins (NASA)	High-Energy Adventures: Astroparticle Physics at NASA in the 2030's
David Maurin (CNRS/LSPC)	Highlights from the last XSCRC2024 workshop (particle and nuclear cross-section measurement campaigns for cosmic-ray data interpretation)
Fabrizio Fiore (INAF)	The HERMES Pathfinder experience (preliminary title)
TBD (INAF)	AI approaches for on-board data processing (preliminary title)
Corrado Gargiulo (CERN)	Mechanics for particle detectors in space (preliminary title)
Ivan De Mitri (GSSI)	The Zirè payload onboard the NUSES space mission (preliminary title)
Roberto Aloisio (GSSI)	The Terzina payload onboard the NUSES space mission (preliminary title)
Miljenko Suljic (CERN)	MAPS: from vertex detectors to space applications
Giovanni Ambrosi (INFN)	The Layer-0 upgrade of the AMS-02 mission (preliminary title)
Nahee Park (Queen's University)	The HELIX-2 mission (preliminary title)
Francesco Ceraudo (INAF)	The LEM-X all-sky monitor on the lunar site (preliminary title)

