Latin American Strategy for HECAP

Marta Losada NYU Abu Dhabi Former Chair of the Preparatory Group

A MULTI-NATIONAL SCIENTIFIC COMMUNITY BASED EFFORT

III LASF4RI for HECAP Symposium

São Paulo, 08/24

Timeline

Brainstorming with the HEP community at ICTP-SAIFR 5th ann. and XI SILAFAE in Guatemala

Initial ideas



Iberoamerican Science and Technology Ministerial meeting in Guatemala: mandate declaration

Mandate



National Meetings and formation of the Preparatory Group with delegates from 10 LA countries.

Preparatory Group

Nov.	2017	Oct.	Nov.	J/F/M	
2016	2018	2018	2018	2019	

Initial landscape

Two-page briefs of 18 experiments. Gathering support from national communities.

Town Hall

Town hall meeting at the XII SILAFAE in Peru to discuss mandate and next steps



1st LASF4RI Workshop and Meeting of the Preparatory Group at ICTP-SAIFR

LASF4RI Workshop & 1st Meeting of Preparatory Group

Timeline

Deadline for the submission of White Papers to LASF4RI

White papers



Write-up of the Physics Briefing Book and the the Strategy Document.

Documents write-up

May	May/Jun	Dec.	Jan.	July	Sept.	
2019	2019	2019	2020	2020	2020	

High-Level Strategy Group

Definition of the composition of the High-Level Strategy Group for HECAP

HLSG Meeting

Kick-off meeting of the High-Level Strategy Group

Open Virtual Symposium

Open Virtual Symposium of LASF4RI for HECAP organized by ICTP-SAIFR, delayed from March due to the pandemic

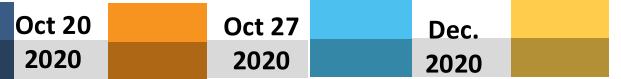
Timeline



Recognition of advances LASF4RI-HECAP process



IB S+T
Ministerial
Meeting



Next Steps

High-Level Strategy Group

Endorsement of Strategy Document to the High-Level Strategy Group for HECAP

Preparatory Group Meeting

Next steps for the Preparatory Group and national processes for next cycle

LASF4RI

lasf4ri.org



Latin American Strategy Forum for Research Infrastructure

Developing a strategy to strengthen Latin American Scientific Collaborations and their impact.

First time a strategic planning process in HECAP, with community input, is done in LA.

LASF4RI---two prong approach

 To promote the establishment of the Latin American Strategy Forum for Research Infrastructures (LASF4RI)

 To spearhead the process for a specific field of knowledge starting with the fields of High Energy, Astroparticle Physics and Cosmology .

Main Goals of the Process

- To chart the landscape of existing infrastructure and expertise already developed in the region.
- To build consensus and support a strategy-based approach for the participation in, and development of, large-scale research infrastructure projects in Latin America.
- To make a call to Latin American scientific communities to establish a strategic scientific forum in order to coordinate Latin American activities in the area.
- To set-up the LA scientific roadmap based on actual participation in large-scale research infrastructures
 and the inherent need for long term planning and funding implementing an open call for input from the
 scientific communities.
- To enable a more effective development of Latin American research groups, facilitating multilateral participation in regional and global research infrastructures, increasing their impact.
- To inform the Ministerial meetings of the development, implementation and impact of the strategy for HECAP.

GOAL TO PRESENT AT IBEROAMERICAN MINISTERIAL MEETING OCT 27 2020

Preparatory Group Members

Argentina: Diana López, Federico Sánchez, Hernán Wahlberg

Bolivia: Martin Subieta Vasquez

Brazil: Thiago S Goncalves and Rogerio Rosenfeld

Chile: Alfonso Zerwekh and Mauro Cambiaso **Colombia**: Marta Losada and Diego Restrepo

Ecuador: Edgar Carrera and Harold Yepes Ramírez

Mexico: Alfredo Aranda, Juan Carlos D'Olivo, Gerardo Herrera

Paraguay: Jorge Molina

Peru: Alberto Gago

Venezuela: Reina Camacho, Arturo Sánchez

Europe: Martijn Mulders

US: Marcela Carena and Marcelle Soares

Asia: Hiroaki Aihara

Observers

Leandro de Paula, Brazil Groups from **Guatemala**, **Honduras Costa Rica** building a CA effort represented by Ma. Eugenia Cabrera and Melissa Cruz.

HIGH-LEVEL STRATEGY GROUP MEMBERS

Luciano Maiani – Chair Fernando Quevedo - Co-Chair

Country/Regional Scientific Representatives

Argentina: Maria Teresa Dova

Brazil: Joao dos Anjos

Chile: Claudio Dib

Ecuador: Bruce Hoeneisen

Mexico: Jacobo Konigsberg

Venezuela: Jose Ocariz

Europe/CERN: Peter Jenni

Asia: Hesheng Chen

US: Francis Halzen/Gabriela

Gonzalez

ICFA/Fermilab: Pushpa Bhat Asia Pacific: Geoffrey Taylor

Institute Directors

Nathan Berkovits, ICTP-SAIFR

Daniel de Florian, ICAS

Alvaro Ferraz, IIP

Jose Roque, LNLS

Ignacio Bediaga, CLAF

Luis Felipe Rodriguez, MAIS

Representatives of funding agencies/research councils of LA countries

Juan Pablo Paz - Ministry of STI Argentina
Roberto Rivarola – CONICET, Argentina
Ingo Allekotte - CNEA, Argentina
Claudia Mendes de Oliveira – FAPESP, Brasil
Ron Shellard - delegate of Ministry of STI, Brazil
Andrés López – ANID, Ministry of STI, Chile
Luis Chavarría – ANID, Ministry of STI, Chile
Eulalia Banguera – Ministry of STI, Colombia
Benjamín Marticorena – Concytec, Peru
Pio Arias – delegate of Venezuela

Félix García Lausín - Representative of SEGIB

Landscape in High Energy, Cosmology and AstroParticles (HECAP)

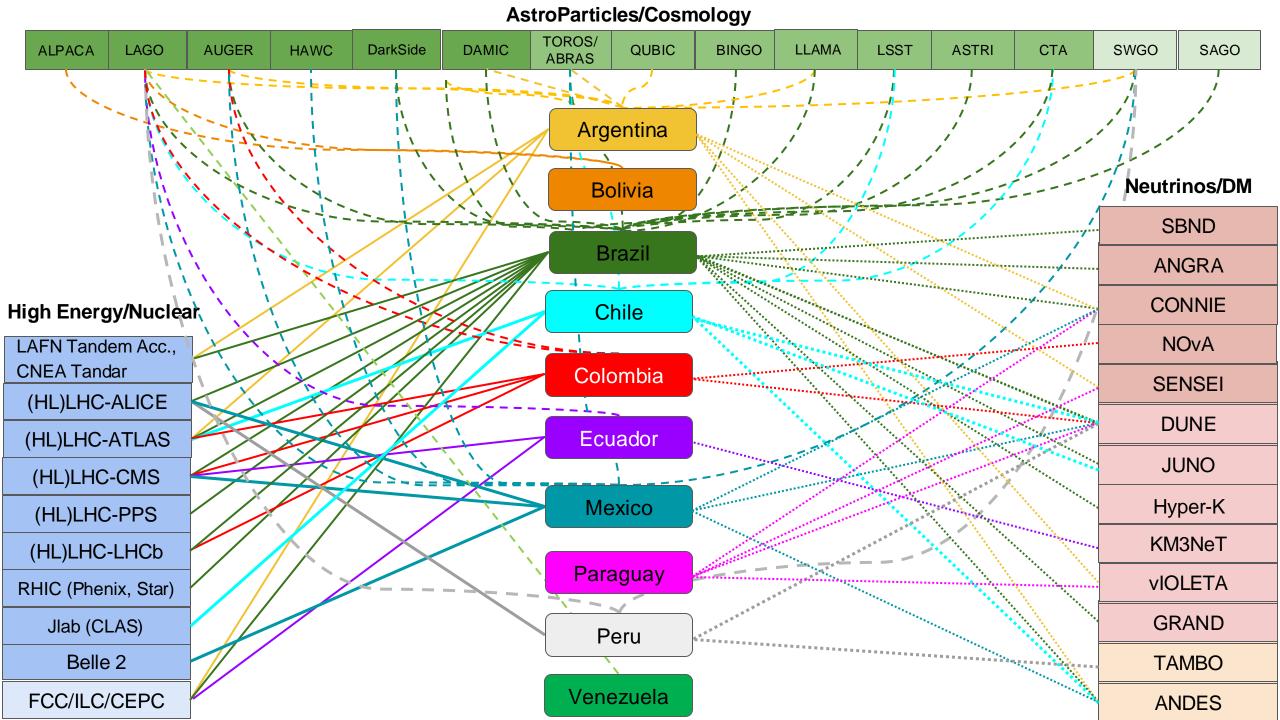
~ 1000 researchers in HECAP

Latin American Strategy for Research Infrastructures for High Energy, Cosmology, Astroparticle Physics LASF4RI for HECAP

LATIN AMERICA HECAP PHYSICS BRIEFING BOOK

Preparatory Group

Hiroaki Aihara - University of Tokyo Reina Camacho Toro- LPNHE Marcela Carena - Fermilab/U. of Chicago Juan Carlos D'Olivo - UNAM Thiago Goncalves - Valongo Observatory Diana López Nacir - DF/IFIBA UBA-CONICET Jorge Molina - Universidad Nacional de Asunción Diego Restrepo - Universidad de Antioquia, Arturo Sánchez- INFN Udine Marcelle Soares-Santos - U. Michigan Hernán Wahlberg - U. Nacional de la Plata Alfonso Zerwekh - Universidad Austral de Chile Alfredo Aranda - University of Colima Mauro Cambiasso - Universidad Andrés Bello Edgar Carrera - Universidad San Francisco de Quito Alberto Gago - Pontifica Universidad Católica del Perú Gerardo Herrera - CINVESTAV Marta Losada - NYUAD Martijn Mulders - CERN Rogerio Rosenfeld - IFT-UNESP & ICTP-SAIFR Federico Sánchez - U. Nacional de San Martin Martin Subieta - U. Mayor de San Andrés Harold Yepes Ramirez - U. de Yachay



PARTICLE PHYSICS & ASTROPHYSICS AROUND LATIN AMERICA ARE(IBO E LARGE LIMETER LES(OPE HAW(THE OBSERVATORIES -C+00000: C+0000 (TA From symmetry magazine (Fermilab)

Latin American Strategy Forum for Research Infrastructures for High Energy, Cosmology, Astroparticle Physics LASF4RI for HECAP

Latin American Strategy for HECAP

Proposal submitted to the High Level Strategy Group

Strategy Document Committee

Alfredo Aranda, Diana López Nacir, Marta Losada, Rogerio Rosenfeld, Arturo Sánchez, Federico Sánchez, Harold Yepes Ramirez

Preparatory Group

ARGENTINA: Diana López Nacir, Hernán Wahlberg, Federico Sánchez

ASIA-JAPAN: Hiroaki Aihara BOLIVIA: Martin Subieta

BRAZIL: Thiago Goncalves, Rogerio Rosenfeld CHILE: Mauro Cambiaso, Alfonso Zerwekh COLOMBIA: Marta Losada, Diego Restrepo ECUADOR: Edgar Carrera, Harold Yepes Ramirez

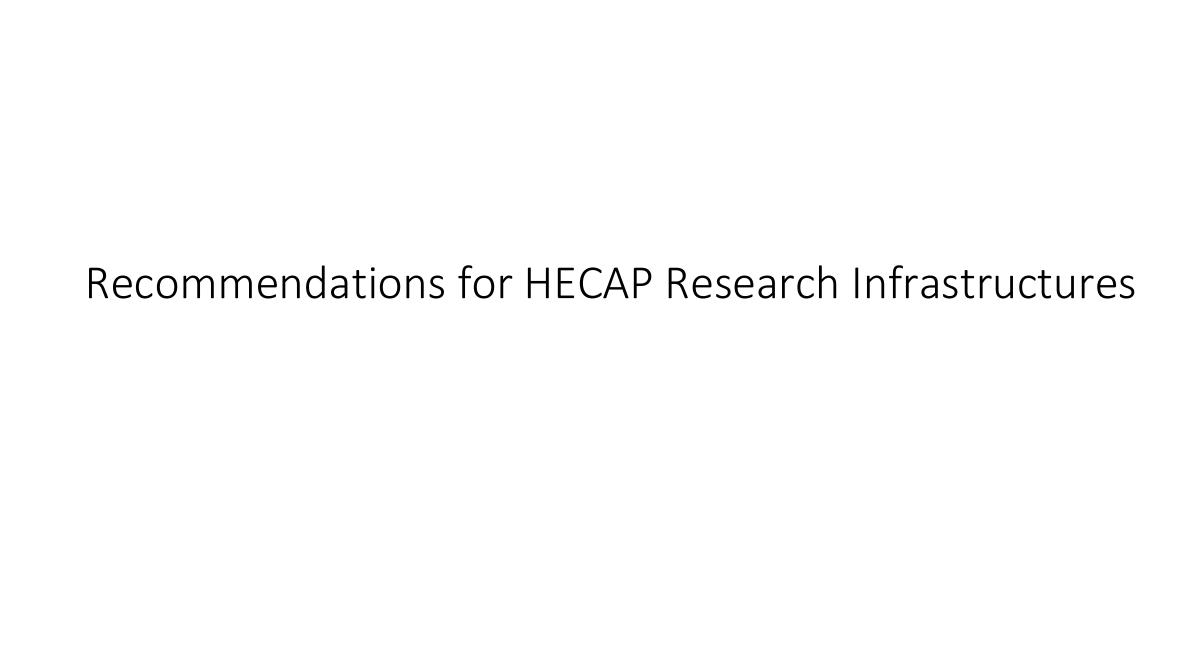
EUROPE-CERN: Martijn Mulders

MEXICO: Alfredo Aranda, Juan Carlos D'Olivo, Gerardo Herrera

PERU: Alberto Gago PARAGUAY: Jorge Molina

USA: Marcela Carena, Marcelle Soares-Santos VENEZUELA: Reina Camacho Toro, Arturo Sánchez

Date: October 1, 2020



Support the development and operation of current- and next-generation projects in astronomy, cosmology and astroparticle physics located in Latin America, enhancing leadership roles in these strategic regional projects that drive capacity building and technological development.

- ✓ Successful design, deployment and operation of astro/astroparticle/cosmo physics infrastructures in the region.
- ✓ Strong science drivers to further understand the Universe.
- ✓ Clear comparative geographic and atmospheric advantages in the region.
- ✓ Sustained annual increase of scientists participating in these experiments.
- ✓ Desirable to enhance participation of LA groups.
- ✓ Ensure continuity of human resources and funding.
 - Ongoing experiments: AUGER, LAGO, TOROS
 - Short term (< 3 years): ABRAS, AUGERPrime, BINGO, QUBIC, LLAMA, LSST
 - Mid term (3-10 years): CTA/Astri, SWGO
 - Long term (> 10 years): GRAND200K, SAGO

Pursue the establishment of the flagship international laboratory, ANDES, that will enable the region as a global center for underground physics and other sciences.

- ✓ Multi-purpose flagship international underground laboratory located in Latin America.
- ✓ Unique opportunity for frontier underground physics experiments and related sciences.
- ✓ Ideal for competitive neutrino and dark matter experiments for which there is tech expertise.
- ✓ Also relevant for geological and biological sciences.
- ✓ Requires a coordinated and strategic commitment from LA countries.

Support the existing efforts in international projects in which Latin American groups are actively participating, and in some cases leading initiatives, as a strategy to position Latin America to key leadership roles in future international flagship projects in collider and neutrino physics.

Colliders

- ✓ Strong involvement in all LHC experiments.
- ✓ Major scientific drivers in EW/QCD/Flavour/CP/BSM.
- ✓ Significant contributions made and capacity building over the past 15 years.
- ✓ Highest priority in electron-positron collider.
- ✓ Focus LA contribution to a unique effort in a future collider to enhance impact and relevance of LA groups.
- Ongoing experiments: LHC
- Mid term (3-10 years): HL-LHC
- Long term (> 10 years): FCC/ILC/CEPC

Neutrinos

- ✓ Seven countries active in neutrino experiments.
- ✓ Focused contribution to DUNE-PDS from LA groups is a top priority.
- ✓ Significant technological expertise given the broad neutrino physics program.
- ✓ Opportunities to develop novel neutrino experiments in the region.
 - Ongoing experiments: vANGRA, CONNIE,NOvA,SBND, KM3NeT (Phase-I).
- Short term (< 3 years): vIOLETA, JUNO.
- Mid term (3-10 years): DUNE, Hyper-K, KM3NeT (Phase-II).
- Long term (> 10 years): TAMBO, GRAND200K

Support small scale, high impact dedicated experiments across HECAP.

- ✓ Striking a balance that gives room to the development of new ideas.
- ✓ Existing and future small and mid- scale experiments targeting specific scientific objectives and measurements across all HECAP.
- ✓ Direct contributions to advanced training (R6) and R&D (R7).
- ✓ Performance studies for (sub)detector components and prototypes.
- ✓ Development of Skipper CCD-based proposals.

Table 4.1: Roadmap of current and future experiment across HECAP with LA participation. Options of future colliders are included but the recommendation is to focus efforts on only one initiative.

Field	Project	Scientific Driver	Status	Start of Operations
Astro	Auger	UHECR	Ongoing	NA
Astro	AugerPrime	UHECR	Upgrade	2022
Astro	LAGO	γrays	Ongoing	NA
Astro	LLAMA	CMB+Radio	Under construction	2020
Astro	CTA	γrays	Under construction	2025
Astro	SWGO	γrays	Collaboration Agreement	2026
Astro/Neutrinos	GRAND 200K-LA sub-array	Neutrino astronomy/UHECR	Future experiment	> 2030
Cosmo	TOROS	EM follow up GW	Under construction	2020
Cosmo	ABRAS	EM follow up GW	Under construction	2021
Cosmo	BINGO	BAO in radio	Under construction	2022
Cosmo	QUBIC	CMB polarization	Under construction	2021
Cosmo	LSST	Dark Matter/Dark Energy	Under construction	2022
Cosmo	SAGO	Next generation GW	Future experiment	2040
Colliders	LHC (all experiments)	EW/Higgs/BSM/Flavour/CP/QCD	Upgrade for Run 3	NA
Colliders	HL-LHC (all experiments)	EW/Higgs/BSM/Flavour/CP/QCD	Approved	2027
Colliders	FCC/ILC/CEPC	Higgs/BSM	Future collider	> 2035
Neutrinos	NovA	ν oscillation prop.	Ongoing	NA
Neutrinos	SBND	Precision <i>v</i> -Ar interactions	Ongoing	NA
Neutrinos	vANGRA	Nuclear safeguards	Ongoing	NA
Neutrinos	CONNIE	CEVNS	Ongoing	NA
Neutrinos	KM3NET (Phase-I)	neutrino astronomy	Ongoing	NA
Neutrinos	<i>v</i> IOLETA	CEvNS, NMM, Light Vector Mediators	Under construction	2021
Neutrinos	JUNO	Precision oscillation, mass hierarchy, BSM	Under construction	2022
Neutrinos	Hyper-K	CP violation, solar neutrinos, mass hierarchy, BSM	Under construction	2025
Neutrinos	DUNE	v properties, Leptonic CP, BSM	Under construction	2026
Neutrinos	TAMBO	v_{τ} astronomy	Future experiment	> 2030
Neutrinos/DM	ANDES	Low mass DM/ $v0\beta\beta$	Future facility	> 2030

Looking forward to the update of this roadmap from this second strategic process.

Recommendations for a healthy and integral HECAP Science Program in LA

Strengthen the collaboration among different theoretical groups in the region working in HECAP and their interactions with the experimental efforts.

- ✓ Contributes to building a stronger science program.
- ✓ Strong theoretical and phenomenology groups in LA.
- ✓ Relevance of SILAFAE, continued support for this event.
- ✓ Significant benefits of interactions between theorists and experimentalists.

Support and develop advanced training programs that harness regional capacities and expertise across all Latin American countries active in HECAP.

- ✓ Contribute to highly qualified human talent training.
- ✓ Advanced training programs are critical to support planned activities.
- ✓ Intra-regional training networks enhanced by links to hubs of knowledge.
- ✓ Opportunities to be trained at the same level as global peers while enhancing retention for the benefit of the region.
- ✓ Highly qualified human resources that can enrich other domains of society with their knowledge and skills.
- ✓ Role of regional institutes to continue to support these initiatives.

Foster R&D capabilities in key technologies across HECAP, enabling connections with industry, and with possible broader societal impact.

- ✓ R&D crucial to provide successful participation and contributions to major experimental endeavors.
- ✓ Important regional advances in harnessing expertise in some technologies that are now bearing fruit but clear gaps that still need to be addressed.
- ✓ Innovative technology developments allow for novel design of experiments to pursue the outstanding scientific drivers.
- ✓ Particular relevance of R&D in areas that are common to several types experiments.
- ✓ Relevance of maintaining a dynamic R&D activity in parallel and in latency periods of the operation of major experiments.
- ✓ Some successful regional examples of industrial connections that can only increase with a thriving HECAP science program.
- ✓ Identification of applications for broader societal impact.

Enhance the high performance computing infrastructure and internet connectivity in the region.

- ✓ HECAP experiments are among the largest producers of big data that
 drives valuable expertise among its users.
- ✓ Integration of existing infrastructures to develop and consolidate linked macro-structures that perform as a single entity.
- ✓ Development of a robust, high-performance scientific computing (HPSC) infrastructure, as well as the improvement of internet connectivity in the region, is fundamental to all experimental efforts.
- ✓ A Latin American Science Cluster, similar to the European ESCAPE project, that includes HECAP should be a priority.
- ✓ A strong computing infrastructure also allows for the training and capacity building in the area of software development, computer-integration and data analysis that feeds into ever increasing needs for data scientists in the region.

Develop formal and stable mechanisms for coordination and funding among research councils and funding agencies at the regional level to support HECAP initiatives.

- ✓ Coordinating support at the funding agency level for Latin American groups in HECAP research allows for synergies to increase both scientific impact and local benefits.
- ✓ Continuity in funding mechanisms is required to develop the HECAP strategy.
- ✓ Resources to contribute to detector development, software and computing requirements for the various experiments and the successful completion of these projects.
- ✓ Fulfillment of commitments to international collaborations ensuring outcomes and science goals.

Encourage the dissemination of knowledge, outreach and the active involvement of the general population in scientific research, boosting Societal Engagement.

- ✓ Recognize the importance of looking beyond responding open scientific questions and advances in technological development to consider how to benefit society more broadly.
- ✓ Need to continue to make the case for science and its importance in our societies.
- ✓ Increase the pipeline of younger generations motivated by science.
- ✓ Wider implementation of citizen science initiatives.
- ✓ Create a positive culture around the facilities and experiments, crucial for their long-term survival.

Summary of Recommendations

Four major recommendations with regard to HECAP research infrastructures:

- Ensure a rich program of astro/astroparticle/cosmo experiments in the region with enhanced participation of LA.
- Develop on >10 year scale new facilities and areas of expertise in the region (underground physics, gravity, neutrino astronomy).
- Continue strong links and participation in major international projects in collider and neutrino physics via a more focused, coordinated and impactful approach.
- Maintain a balanced approach including smaller scale regional projects to drive new ideas and technological developments.

Five recommendations to strengthen the HECAP science program as a whole:

- R&D technologies
- Advanced training program
- Connections between theorists and experimentalists
- Computing and network infrastructures
- Societal engagement

One major recommendation for stability and continuity mechanisms in funding and cooperation across funding agencies in LA.

Endorsement by the High-Level Strategy Group

HLSG Meeting of Oct 20 2020

After reviewing and discussing this document the HLSG wishes to express that it applauds the process that has been undertaken in Latin America for the *first time* to develop with broad participation of the HECAP scientific community a strategy for research infrastructures. The research topics combine an exciting contribution to understand the deepest structures and fundamental interactions of our Universe with the latest technological developments and with concrete applications to society. The resulting documents reflect an in-depth and systemic exercise to understand the current landscape, identify the regional strengths and weaknesses, and propose concrete projects to focus on while maintaining a balanced perspective that includes crucial capacity building initiatives.

The **LASF4RI-HECAP Strategy Document** presented to the HLSG shows an impressive degree of maturity of the Latin American region in moving forward with participation and leadership roles in state of the art large research infrastructures and related experimental facilities in HECAP areas. Its pillars are *ten* overarching recommendations whose successful implementation could lead to significant improvement of the impact of, and benefit for, the Latin American region in technological and scientific development in the near and medium term future. The findings and recommendations define the priorities for Latin American scientists in the coming decade and beyond.

Endorsement by the High-Level Strategy Group

- The endorsement recognizes the major recommendations:
 - The abundance of rich projects in the area of Astro/Cosmology located in Latin America that are ongoing or under construction, as well as future initiatives, demonstrate the unique regional strengths and potential that should be most strongly supported. An increased participation from regional groups in these projects is highly desirable to help position them in prominent leadership roles and also benefit the younger generations of Latin American scientists.
 - The opportunity to incursion into underground physics experiments in a big way with the development of the ANDES facility should be a high priority for the region. This would require a well coordinated and sustained commitment across Latin American countries to ensure its success and to position the facility on the global scale.
 - The participation in international large-scale collaborations in both collider and neutrino physics experiments have been a key driver in the Latin American region. It has facilitated building-up and consolidating experimental research groups in the region, which in many cases have taken on leading roles in some of these flagship projects. These activities should be most strongly supported to continue the advancement and future leadership in HECAP experiments and related large infrastructure facilities, providing younger generations with the best training capabilities and opportunities at the global scale.
 - Small and mid-scale regional projects of high scientific and technological impact can provide unique opportunities to the region to be innovative and assume leadership and should be supported with high priority. These local infrastructures also provide excellent opportunities for training and R&D, and can be stepping stones for larger projects with strong participation of LA scientists.

Endorsement by the High-Level Strategy Group

The LASF4RI-HECAP Strategy Document addresses several aspects that need to be simultaneously developed to sustain a thriving research environment which includes fostering R&D for key technologies, enhancing the computing and network infrastructures, advanced training of the younger generations, and broad dissemination of knowledge with increased initiatives for citizen science. The importance of reinforcing connections between theorists and experimentalists to advance the research questions posed and the exploration of answers through experimentation is clearly stated and is considered of great value by the HLSG.

The recommendation for stable and continuous mechanisms for funding and coordination at the level of funding agencies and research councils for HECAP is of paramount importance and this HLSG endorses it enthusiastically.

Finally, the HLSG strongly recommends that the HECAP community put in place a robust structure and mechanisms that would allow the community to come together, on a periodic basis, ideally about every five years, to examine progress and consolidate community input to develop and/or update the strategic plan for the region. The European Particle Physics Strategy Update and the United States "Snowmass" processes are examples of successful national/regional models. Such sustained and recurring community engagement in the strategy development process will ensure regional coordination in the participation, as well as in developing leading roles, in regional and global scientific research infrastructures. This would also facilitate funding agencies in their decision-making process to adequately support the HECAP efforts in Latin America.

Given the above considerations the High Level Strategy Group expresses its endorsement of the 2020 LASF4RI-HECAP Strategy Document.

2020 Iberoamerican S+T Ministerial Meeting October 27 2020

https://www.segib.org/wp-content/uploads/Declaracion-IV-RMCTI_ES.pdf

Recognition of LASF4RI-HECAP process:

Los avances en el establecimiento del Foro Estratégico Iberoamericano para las Grandes Infraestructuras, a partir del desarrollo de un programa piloto en el área de física de altas energías, astropartículas y cosmología, cuyos resultados se han plasmado en el documento estratégico para el desarrollo de estas disciplinas, que incluye la definición de recomendaciones y el establecimiento de una hoja de ruta.

Results were presented at several conferences and venues: CILAC, American Physical Society, African Strategy Conference, Snowmass, SILAFAE, Encontro de Primavera (Particles and Fields), other regional meetings

Other results

- LA Representatives for ALCC, I. Bediaga (Brasil) and M.A. Diaz (Chile)
- New members of the Preparatory Group including now members from Costa Rica, Honduras and Guatemala
- New Chair and Co-chair of the Preparatory Group: Rogerio Rosenfeld (Brasil) and Diana López Nacir (Argentina)
- Nomination of a LA representative to ICFA through CLAF
- Nomination of a LAA-HECAP representative to C11 of IUPAP
- Mobility programs using the ICTP-Trieste Network Program and a new CLAF agreement.
- Organization of ICHEP in Latin America for the first time.

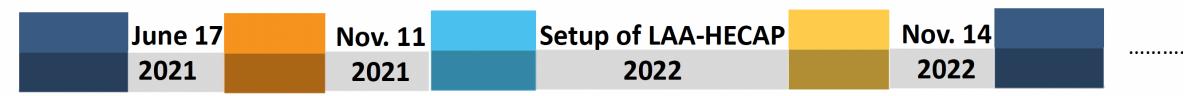
New Timeline (continued)

1st Meeting of the new Preparatory Group

Mandate 2021-2023

You can find the by-laws at:

www.ictp-saifr.org/wp-content/uploads/2021/10/Latin-American-Association-for-High-Energy-Cosmology-and-Astroparticle-Physics.pdf



XII¾ SILAFAE EXPRESS

Creation of the Latin American Association for HECAP

XIV SILAFAE - Ecuador

1st LAA-HECAP General

Assembly

LATIN AMERICAN ASSOCIATION FOR HIGH ENERGY, COSMOLOGY AND ASTROPARTICLE PHYSICS (LAA-HECAP)

LAA-HECAP is hereby established as an association of the Latin American research community in the fields of High Energy, Cosmology and Astroparticle Physics (HECAP). It aims to leverage and amplify the successful and growing dynamics of research in HECAP in Latin America, as demonstrated by the fruitful and long-term organization of the Latin American Symposium on High Energy Physics (Simposio Latino Americano de Física de Altas Energias - SILAFAE) series and the recent initiative to form a Latin American Strategy Forum for Research Infrastructures for HECAP (LASF4RI-HECAP - lasf4ri.org) with the participation of several countries in the region.

- Strengthen existing ties within the Latin American HECAP community and foster new and existing collaborations
- Engage the wider scientific community and the general public through the promotion of HECAP.
- ▶ Represent the Latin American HECAP communities in other scientific international bodies
- Announce activities in HECAP in the region through means such periodic newsletters and a website
- Promote other activities such as the organization of symposia, workshops, schools, university-institution cooperation and exchange programs for students, and the production of educational and outreach material
- ▶ Engage with Ministries, funding agencies and other national authorities related to Science and Technology to promote the rollout and development of the current LASF4RI-HECAP process.
- Organize SILAFAE (Latin American Symposium on High Energy Physics) every two years.
- Coordinate periodic assessment and strategic planning within the LASF4RI-HECAP process.

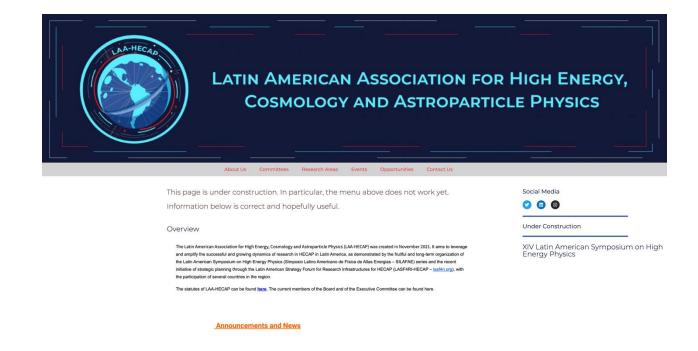
Latin American Association for HECAP

Founded November 2021

562 members currently

Chair: Rogerio Rosenfeld

Vice-chair: Fernando Quevedo



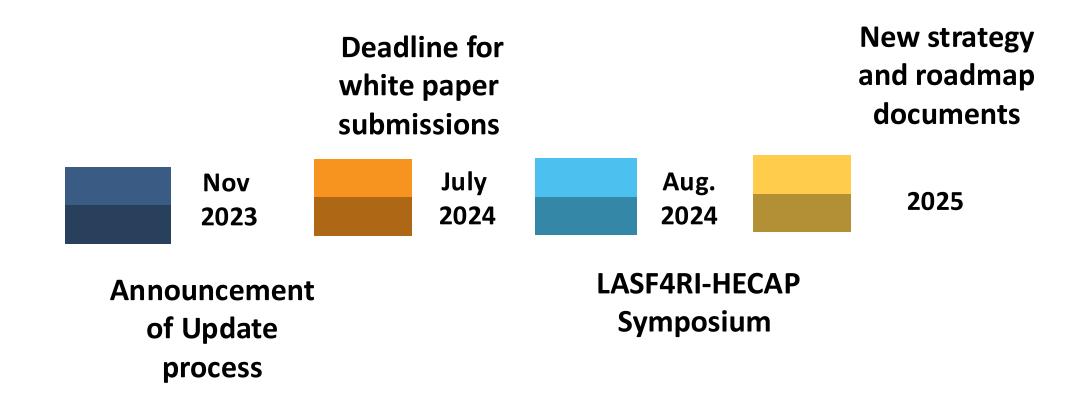
Executive Committee:

Diana López Nacir, Edgar Carrera, Diego Restrepo and Alfredo Aranda

• Board with representatives from: Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Ecuador, Guatemala, Honduras, Mexico, Paraguay, Peru, Venezuela

Other specialized committees on EDI, Communication, etc

Current Timeline



Conclusions

- Successful first process that produced the landscape and roadmap for HECAP in LA region.
- Launch of second bottom-up strategic process with a good representation of the fields of activity and countries of the region.
- Many thanks to Rogerio, Fernando, Luciano and all members of the Preparatory Group and HLSG for their commitment and hard work.