

Latin American Strategy Forum for Research Infrastructure in High Energy, Cosmology and Astroparticle Physics (LASF4RI-HECAP)

Nicolás BERNAL

On behalf of the preparatory group



COMHEP

November 29 – December 3, 2021

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



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

Slides borrowed
from R. Rosenfeld!

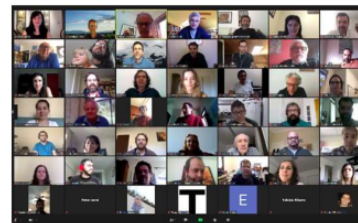


1st LASF4RI Workshop and Meeting of the Preparatory Group at ICTP-SAIFR

LASF4RI Workshop & 1st Meeting of Preparatory Group

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



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

Timeline



Recognition of advances
LASF4RI-HECAP
process



**IB S+T
Ministerial
Meeting**



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To be continued

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

SILAF4E 2021

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.

1st 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

Recently groups from **Guatemala, Honduras**

Costa Rica building a CA effort represented

today by Ma. Eugenia Cabrera and Melissa Cruz.

39 white papers submitted.

Three main documents produced:

- LA-HECAP Physics Briefing Book
- Strategy Document with recommendations
- Endorsement letter from HLSG

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

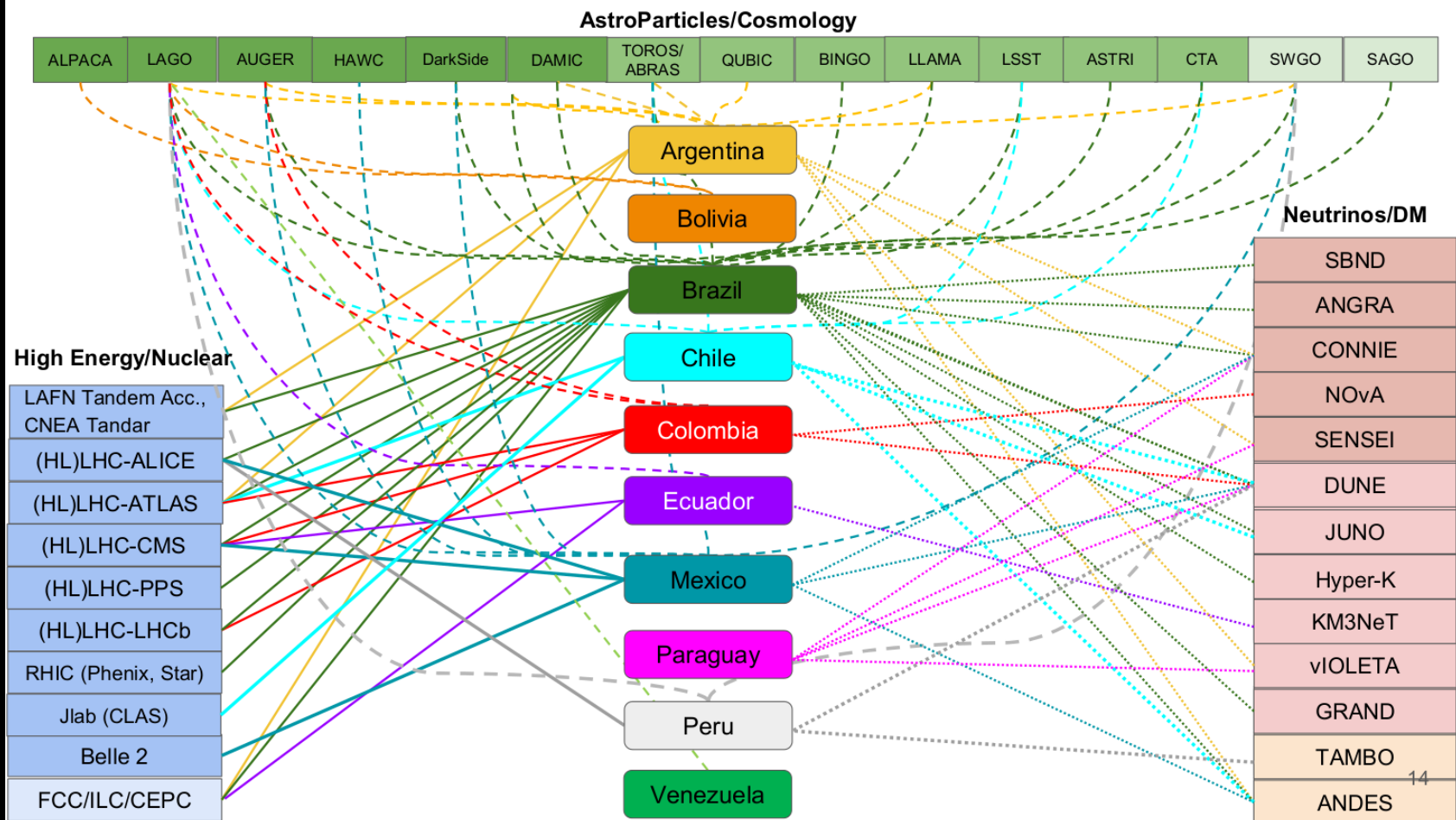
LATIN AMERICAN HECAP PHYSICS BRIEFING BOOK

Preparatory Group

Hiroaki Aihara - University of Tokyo
Reina Camacho Toro- LPNHE/CNRS
Marcela Carena - Fermilab/U. of Chicago
Juan Carlos D'Olive - 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- ICTP/INFN/ U. of Udine
Marcelle Soares-Santos - U. Michigan
Hernán Wahlberg - U. Nacional de la Plata
Alfonso Zerwekh - U. Técnica Federico Santa María

Alfredo Aranda - University of Colima
Mauro Cambiaso - 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 Martín
Martín Subieta - U. Mayor de San Andrés
Harold Yepes Ramírez - YTU

arXiv:2104.06852v1 [hep-ex] 14 Apr 2021



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 Ramírez

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 Ramírez
EUROPE-CERN: Martijn Mulders
MEXICO: Alfredo Aranda, Juan Carlos D'Olive, Gerardo Herrera
PERU: Alberto Gago
PARAGUAY: Jorge Molina
USA: Marcela Carena, Marcelle Soares-Santos
VENEZUELA: Reina Camacho Toro, Arturo Sánchez

Date: October 1, 2020

Recommendation 1

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.

Recommendation 2

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

Recommendation 3

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.

Recommendation 4

Support small scale, high impact dedicated experiments across HECAP.

Recommendation 5

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

Recommendation 6

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

Recommendation 7

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

Recommendation 8

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

Recommendation 9

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

Recommendation 10

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

LASF4RI-HECAP Preparatory Group 2021-2023

Chair: Rogerio Rosenfeld; Co-chair: Diana López Nacir

Argentina

Diana López Nacir

Federico Sánchez

Hernán Wahlberg

Bolivia

Martín Subieta

Brazil

Jailson Alcaniz

Ignácio Bediaga

Rogerio Rosenfeld

Chile

Alfonso Zerwekh

Mauro Cambiaso

Colombia

Nicolás Bernal

José David Ruiz Álvarez

Ecuador

Francisco Yumiceva

Dennis Cazar Ramírez,

Harold Yepes

Central America

Maria Eugenia Cabrera - Guatemala

Melissa Cruz Torres - Honduras

Federico Muñoz - Costa Rica

Mexico

Alfredo Aranda

Juan Carlos D'Olivo

Gerardo Herrera

Paraguay

Jorge Molina

Peru

Alberto Gago

Venezuela

Reina Camacho Toro

Arturo Sánchez Pineda

José Antonio López

International

Marcela Carena

Martijn Mulders

Marta Losada (ex-officio)

New Timeline (continued)

1st Meeting of the new Preparatory Group

Mandate 2021-2023



SILAFEA EXPRESS

Creation of the Latin American
Association for HECAP

Activities of the Preparatory Group since June 2021

(~monthly meetings)

- Proposal for a timeline for new process
 - July 2022 - Call for Letter of Intent to write White Papers
 - July 2023 – Deadline for Letters of Intent
 - July 2024 - Deadline for White Papers
 - December 2024 - Workshop about white papers
 - 2025 - writing the Strategy
- Letters to Ministries & Funding agencies sent
- Talks to EURAXESS about MSCA-Staff Exchange application
- Talks to BID, LA-ConGA and RedCLARA about possible joint project(s)
- Development of a Logo (huge thanks to Arturo Sánchez!)
- Development of the bylaws for the Latin American Association for HECAP – huge thanks to Salvatore Mele!

Latin American Association for HECAP

Should be as inclusive as possible:

Anyone interested in HECAP can in principle be a member

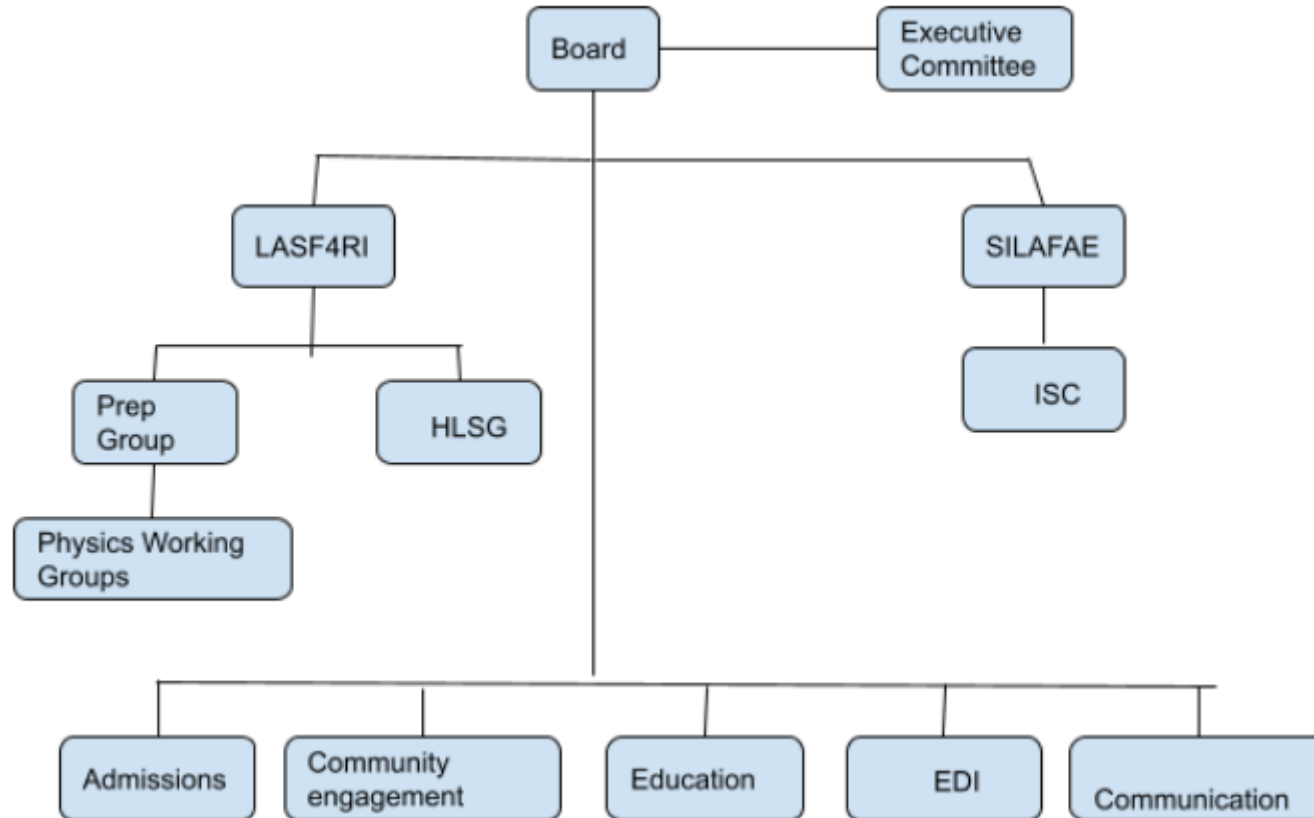
There are no fees

You can join the Association by just filling a simple form at

<https://forms.gle/SrWWcjrMWEPFHa7t7>

We will send the link by email to the registered participants. **Please help to spread in your local community!!**

Latin American Association for HECAP



Join the association:

<https://forms.gle/SrWWcjrMWEPFHa7t7>

