

LASF4RI for HECAP

A MULTI-NATIONAL SCIENTIFIC COMMUNITY BASED EFFORT

Discussion Session

Preliminary results/benefits

- First repository of initiatives and advances.
- Deeper dive into detailed info of the majority of the experiments/initiatives/results in the region.
- Increased opportunities for discussion amongst ourselves.
- Recognition of benefits of increased mobility among the region.
- Highlighting strategic relevance of geographical location in LA for experiments in the Astroparticle/Cosmology domain.
- Growing insertion into flagship international projects at the global scale.
- Identification of key strengths and contributions in instrumentation/computing/software.
- Important regional training programs that can be built upon for future strengths.
- Enhancement of synergies and collaborative efforts at national level conducive to national roadmaps.

Gaps

- Still need to ensure a better capture/inclusion of all relevant participation or initiatives.
- Uneven results in national mechanisms to capture/participate in this effort.
- Capacity building still needed in human resources and instrumentation/software/computing competence in some countries/subtopics the region.
- Recognition of individual contributions in large collaborations (not limited to LA).
- Need to enhance internal impact in large collaborations.
- Many of the contributions relate to existing experiments, for a roadmap we need to project where we want to be in time and what would that participation look like.

The way forward- next few weeks

- Additional information to strengthen our physics briefing book.
- Will rely on all of you as scientific contributors to produce the best result possible.

Briefing: Name of Experiment/ Facility

Location:

Contact person:

Introduction, Scientific Goals

Figure of merit of scientific driver **[please attach plot]**

Specific scientific results contributed by LA groups (if ongoing experiment) **[please attach plots/refs when applicable]**

Technological Impact

Specific LA contribution to detector/instrumentation or software/computing

Major contributions/competences of LA groups

Current/Foreseen Latin American involvement

Timeline and Major Milestones

Capacity building

Technological advances

Advanced training

Connection with Industries **[parts built by local industries/new industry efforts lead by workforce trained in physics]**

Funding Profile [Costs and expenditure disbursement for experiments in LA]

[Expected contribution to international experiments]

Main challenges: i.e. technological, infrastructure, formal approvals by governments for construction in LA.