



Report on ApPEC
Astroparticle Physics European Coordination

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CHIPP

2012 CHIPP Annual Plenary Meeting

1. ASPERA / ApPEC Recommendation

presented at the *UPDATE OF THE EUROPEAN STRATEGY FOR PARTICLE PHYSICS*

- A draft report concerning topics related
 - **Underground neutrino detectors (LAGUNA LBNO)**
 - **Dark matter searches (DARWIN, EURECA)**
 - **Link between high energy cosmic rays and LHC**
 - **Neutrino nature and mass scales**
- “ApPEC and CERN should explore ways of coordination of these activities on both the theoretical and experimental level. In a longer perspective these fields could be considered candidates for a possible scientific enlargement of CERN.”

2. The future of European Astroparticle Physics Coordination

A new ApPEC organisation will replace the present ApPEC (and ERAnet ASPERA-2)

Should CHIPP be a member of the new ApPEC?

A positive recommendation has been adopted by the Board of CHIPP on September 7, 2012

Memorandum of Understanding for the Astroparticle Physics European Consortium (ApPEC)

Sections:

Internal Organization

The General Assembly

The Joint Secretariat and the General Secretary

The Scientific Advisory Committee

Financial Issues (In-kind secretariat +membership fee 5
KEUR/y)

ApPEC Participating Institutions

...

Memorandum of Understanding for the Astroparticle Physics European Consortium (ApPEC)

Strategic objectives

- Provide a **discussion forum** for the coordination of European Astroparticle Physics;
- Develop and update **long term strategies** (e.g. Roadmap for European Astroparticle Physics);
- Participate in the **European scientific strategy** with organizations such as the European Strategy Session of CERN Council and ESFRI;
- Develop **closer relationships with organizations** involved in Astroparticle Physics research such as CERN, ESA and ESO;
- Express **collective views on Astroparticle Physics** in international fora.

Memorandum of Understanding for the Astroparticle Physics European Consortium (ApPEC)

Operation of the Secretariat:

1. International Contact, Computing and Industrial Relations (PT-DESY)
2. Networking, Theory and Education centre (Gran Sasso)
3. Strategic Actions, Interdisciplinarity and Outreach (APC)

Status:

9 institutions have signed the MoU

First ApPEC General Assembly meeting November 29th, 2012

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Why join?

Similar to joining the UN:


we have a vision, a Strategy plan for ApP

ApPEC can promote our global projects (LAGUNA, DARWIN, CTA...)

However we want adapt ApPEC to make it useful to all our communities needing it (space experiments?, cosmology,? Theory?...)

Next step:

**Decision in meeting (November 21st,2012) of Round Table
Internationale Projekte (Define signatory and representative to GA)**



**Report on APIF
OECD Global Science Forum on
Astroparticle Physics**

**Maurice Bourquin and Martin Steinacher
SER**

2012 CHIPP Annual Plenary Meeting

APIF

- “A venue for information exchange, analysis, and coordination, with special emphasis on strengthening international cooperation, especially for large programmes and infrastructures”.
- **3rd meeting in London, April 2012:**
 - update on national programmes, plans and priorities:
topics with high interest are gamma rays with CTA; neutrino physics at underground laboratories , accelerators (T2K) and reactors (DChooz, Daya Bay, RENO); and the search for gravitational waves .

APIF

- **We presented**
 - the recent submission of the NCCR “The Universe”
 - the Swiss infrastructure roadmap
 - the submission of the funding bill BFI 13-16 to the parliament (with an annual increase of approx. 5%)
 - the enlarged funding instrument FLARE including now a line for new astroparticle projects such as CTA, LAGUNA, DARWIN, projects with growing Swiss interest.
- **The representative of the EC** underlined the support granted for the preparatory phase for ESFRI projects in astroparticle (**CTA, KM3Net and LAGUNA**). This should be continued for **neutrino factories and gravitational waves**.

APIF (next meeting in October)

- On **dark energy** the Large Synoptic Survey Telescope (LSST) is the main US project in this domain. But a discussion without the space agencies around the table is difficult. At the next APIF meeting, space-based projects will be a topic (if space agencies willing!).
- On direct detection of **dark matter**, APIF encourages underground laboratories to reinforce their collaboration. At the next APIF meeting, dark matter will be a topic.
- **Data access policies** in astroparticle physics will also be a topic.