



# **Report on ApPEC**

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**2009 CHIPP Plenary Meeting**



## Members:

Belgium ([FNRS](#), [FWO](#))

Czech Republic ([MEYS](#)),

France ([IN2P3/CNRS](#), [DSM/CEA](#))

Germany ([BMBF](#))

Greece (Demokritos)

Italy ([INFN](#)),

Poland ([NCBiR](#))

Portugal ([FCT](#))

Romania ([IFIN HH](#))

Spain ([MICINN](#))

The Netherlands ([FOM](#))

Switzerland (CHIPP)

United Kingdom ([STFC](#))

CERN

And candidates (Sweden, Croatia, Slovenia...

# AMBITION:

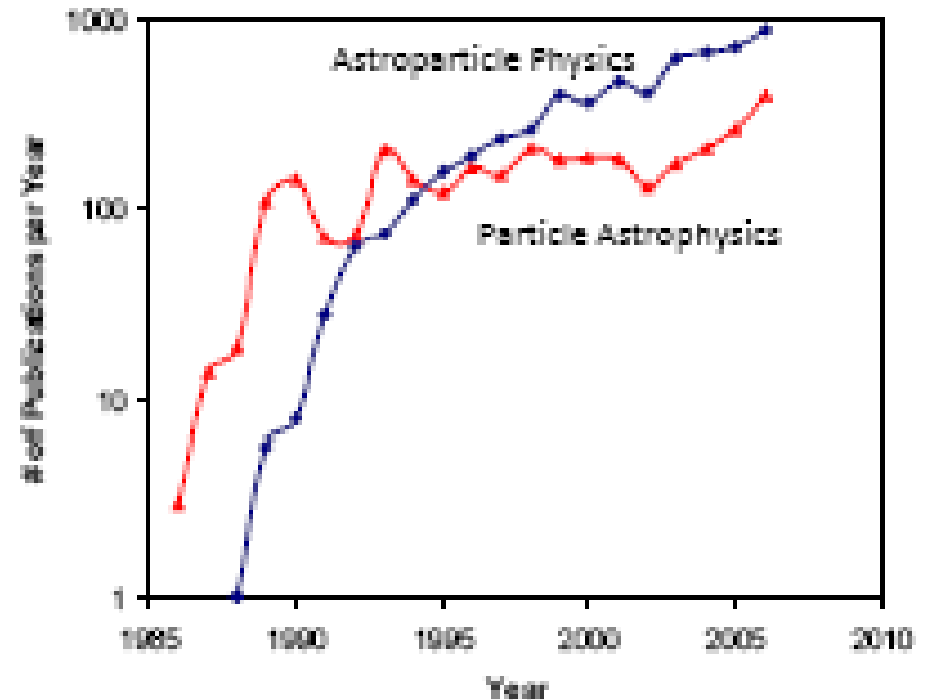
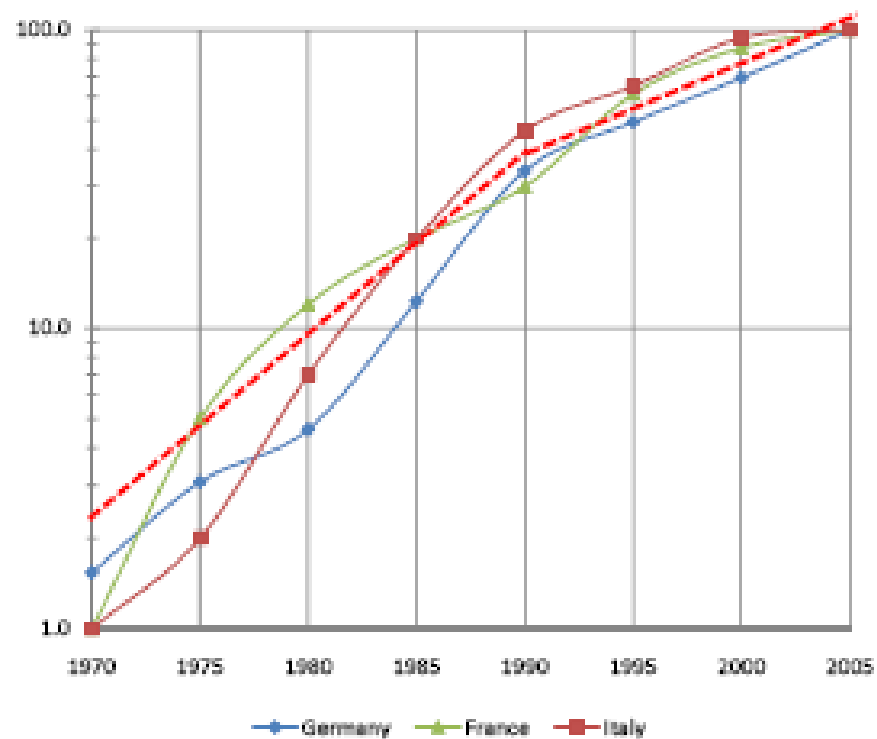
- To coordinate the decisions and financing of large Astroparticle Physics (ApP) RI with European participation (in Europe and globally)
- To represent ApP and collaborate with international organizations (CERN, ESO, ESA) and other agencies outside Europe
- To promote ApP through outreach activities...

- The merit of ApPEC is to have launched three years ago the **ERAnets ASPERA**, now **ASPERA-2** (July 2009-June 2012).
- Switzerland represented by SNF through support by CHIPP
- The **ASPERA** provide, thanks to EC resources, the possibility to take common concrete actions.

# Actions accomplished through ASPERA-1:

- Definition of the field and study of historical emergence
- Survey of community and activities (experiments, R&D)
- Strategic roadmap: “the Magnificent Seven”
- Common procedure for common calls
- Launch of first common call
- Outreach activities :web site, monthly newsletter, traveling exhibits, events during IYA2009 (posters, “Astronomie ohne Licht”)

# Study of historical emergence of the field (BR+MB)



# **The Roadmap: The Magnificent Seven**

- **A ton-scale detectors for dark matter search**
- **A ton-scale detector for the determination of the fundamental nature and mass of neutrinos**
- **A Megaton-scale detector for the search for proton decay, for neutrino astrophysics and for the investigation of neutrino properties**
- **A large array of Cherenkov Telescopes for detection of cosmic very high energy gamma-rays**
- **A cubic kilometer-scale neutrino telescope in the Mediterranean Sea**
- **A large array for the detection of charged cosmic rays**
- **A third-generation underground gravitational antenna**

# Status of first common call

- Topics: R&D and Design Studies for Direct Dark Matter searches and for VHE Gamma Telescopes
- 9 agencies, 3.6 MEuro
- Evaluation of requests in progress by “Evaluation Committee”
- “Program Committee” meeting September 7th
- Decisions by ApPEC StC October 12, 2009
- Evaluation of the process in view of new calls



# Draft posters for European week of Astroparticle Physics



# ApPEC Activities in Progress

- Work toward ApPEC-CERN and ApPEC-ESO partnerships:
  - ApP and Cosmology Theory Center at CERN
  - Platform for common projects at CERN
  - Participation in WG on scientific extension of CERN
  - Participation in CERN European Strategy Sessions of Council
- Participation in OECD GSF on Astroparticle Physics
  - Is global strategy approach useful? How?
- Collaboration with ECFA and RECFA
  - At the level of the scientific community, a new PRC with a similar role as RECFA?

# Activities in Progress

- A sustainable future for ApPEC:

Working group created, followed by ASPERA-2 Task 5.5

How to include space agencies?

A legal entity?

Which organization should represent Switzerland?

**Conclusion:** ApPEC to play a larger role at level of funding agencies in the domain of “astroparticle physics”