

Proposal to host HCP 2011 in downtown Paris

by LPNHE-Paris VI and VII

Gregorio Bernardi (DØ-IN2P3)

with the

**ATLAS (Philippe Schwemling) and
CDF (Aurore Savoy-Navarro) LPNHE-groups**

ATLAS,CDF & DØ groups @ LPNHE-Universities Paris VI & VII

ATLAS group → fifteen physicists (led by Ph. Schwemling)

CDF group → five physicists (led by A. Savoy-Navarro)

DØ group → five physicists (led by G. Bernardi, also DØ-IN2P3 spokesperson, DØ-in2p3 is a consortium of seven in2P3-Labs, working in the DØ coll.)

The three Groups are strongly involved in their collaboration

The LPNHE Paris is an IN2P3-CNRS-Paris VI/ VII lab with ~ 60 faculty physicists (total of ~ 120 persons, director P. Debu)

- **High Energy Physics (ATLAS, BABAR, CDF, DØ, ILC, LHCb)**
- **Cosmology/ Astroparticles (AUGER, Supernovae collaborations, HESS,T2K)**

The physics program of the ATLAS, CDF and DØ LPNHE groups are mainly focused on Higgs search, Top and BSM physics, where major breakthroughs are expected by 2011 → high motivation to produce a very successful conference with new results announced at HCP.

Expertise exists in these groups in conference organization. Administrative staff in our lab is participating routinely to conference organization (rencontres de Moriond, rencontres de Blois) and is involved in this proposal.

Organization

In fall 2005, the LPNHE ATLAS group has hosted an ATLAS collaboration week with 300 physicists. We would host the HCP conference in a similar way. See: <http://lpnhe-atlas.in2p3.fr/LPNHE/Physique/Ateliers/OverViewWeek2005/>

(Although some links are now broken since we had a major lab computer upgrade in 2007)

Neutrino-2004 (540 participants) was also co-organized by our Lab in Paris.

Assuming less than 300 participants → the ATLAS-week model:

Located in the Ministry of Research (historic buildings of the Ecole Polytechnique founded under Napoleon) with two main auditoriums one with 220 places, the other with 80 places. The smaller one was video connected to the first one, and generally colleagues wishing to work while listening to the talks were gathering there. Wireless connections available in both auditoriums.

Smaller meetings can take place either in further smaller rooms or at the University itself, which is a five minutes walk away, in the most central part of Paris, the famous "Quartier Latin" where the Sorbonne University and the College de France are also located.

The conference fee is estimated at < 300 Euros (450 \$), and with that a good social program is achieved+standard misc. Support from IN2P3-CNRS expected.

The social program is not an issue in Paris, and there can be iterations on what we would like to do as outings. The banquet for instance could take place at the Senate or on the Eiffel tower with our current budget.

If the conference would need to host more people, we can easily arrange a larger venue with auditoriums in the College de France accepting up to 550 people

Why Paris in 2011 ?

Up to 2011, ATLAS, CDF, D0 (and LHCb) LFNHE groups will ALL be active

Paris area very active in LHC/ Tevatron/ HERA/ RHIC physics:
CEA-Saclay, Ecole Polytechnique, LAL-Orsay, LFNHE-Paris, College de France/ APC all deeply involved in all LHC and Tevatron experiments and several theory labs in the Paris Universities.

LHC will be in its most intense phase, so large part of the community will be only 3 hours away (TGV train) from Paris, very cheap travel. Also close to Chicago with several direct flights per day (8 hours).

Possibility to have all the experts for specific sessions if needed, in this crucial moment. Attractive power of Paris will bring a very complete representation of the community (theoreticians).

Centrally located, direct flights from everywhere, airport connected to the quartier latin in 30 minutes by train.

Hotels within walking distance can be arranged for < 80E, in an exceptional setting. Many small restaurants/ sandwich places at 3' from the site, lunch boxes can be provided if it's the common will.

Paris in 2011 is a guarantee of success !

Scientific Program

Following HCP traditions (high quality plenary talks)

Emphasis on -- New Physics Results of LHC

-- Final (?) High Statistics results of Tevatron

Possibly reserve the second day for parallel sessions, if the wealth of new LHC results warrants it (B / Heavy-ions / Searches / SM).

Dates: end of May to end of June are optimal

We hope to welcome you in Paris in 2011 !

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