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Proposal to host HCP 2009 in Paris
(LPNHE-Paris VI and VII)

1 Introduction

The ATLAS and DØ groups of LPNHE-Universities Paris VI and VII are proposing to host HCP 2009 in downtown Paris. The ATLAS group is currently composed of twelve physicists (nine faculty), while the DØ group is composed of seven physicists (three faculty), with the common goal of doing physics together in the LHC years.

The LPNHE Paris, directed by Pascal Debu, is an IN2P3-CNRS lab with approximately fourty faculty physicists devoted to High Energy Physics (ATLAS, BABAR, CDF, DØ, ILC, LHCB) and to Cosmology/Astroparticle physics (AUGER, Supernovae collaborations, HESS), and, for a small component to phenomenology.

The physics program of the ATLAS and DØ LPNHE groups are mainly focused on Higgs search and Top physics, and expertise exists in both groups in conference organization.

2 Organization

Recently (fall 2005), the LPNHE ATLAS group has hosted an ATLAS collaboration week with 300 physicists, and based on this experience we could host the HCP conference in a similar way. The Neutrino conference 2004 (540 participants) was also co-organized by our Lab in downtown Paris, and F. Vannucci who was co-chairing that organizing committee is now a member of ATLAS.

Administrative staff in our lab is used to conference organization (rencontres de Moriond, rencontres de Blois) and is involved in this proposal.

For HCP 2009, we have envisaged different types of organization: assuming there will be between 200 and 300 participants, we would thus use the

ATLAS-week model. This was located in the Ministery of Research (historic buidings 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 were of course 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 (among others) are also located.

The conference fee was 350 Euros (450 $), and with that a good social program could also be achieved. Support from the IN2P3-CNRS is customary for such conference organizations, and further support from the city and the region is generally also available. The social program is not an issue in Paris, and there can be an iteration 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 nearby College de France accepting 500 people, but we feel that current size of the conference is optimal for its goals.

On the transportation side, Paris is a central world hub, with many direct connections from all major cities of the world. Charles de Gaulle airport is linked with a direct train which runs in 30 minutes to the Quartier Latin (St-Michel stop), where the conference takes places and where many hotels are, for 10 $. Taxis are approximately 50 $.

Many hotels are available in the Quartier Latin, one of the most beautiful district in Paris. With early reservations, singles at 70 Euros (90 $) can be easily found, and of course much more expensive rooms are also available in this area. We can arrange a number of rooms to be blocked for the conference.

All the members of the LPNHE-ATLAS and DØ groups are willing to participate in the organization. Initially three of us would get the project rolling: Gregorio Bernardi (chair, DØ-LPNHE group leader, and convener of the DØ Higgs physics group), Ursula Bassler (Deputy Director of LPNHE) and Philippe Schwemling (ATLAS-LPNHE group leader).

The complete list of ATLAS and DØ faculty members is: B. Andrieu, U. Bassler, G. Bernardi, F. Derue , M. W. Krasny, D. Lacour, B. Laforge, I. Nikolic-Audit, M. Ridel, P. Schwemling, S. Trincaz-Duvoid, F. Vannucci.

3 Scientific Program

The current date (around middle of May) is optimal for being in Paris, and optimal for new results between winter and summer conferences, so we would be in favor of keeping it this way. 2009 will be particularly interesting since the high statistics results from the Tevatron will be presented together with the first LHC physics results, so we are assured of an extremely lively conference, in which our groups will be contributing. Of course the important Labs in the suburbs of Paris (LAL Orsay-IN2P3-CNRS, CEA-Dapnia-Saclay and Ecole Polytechnique-IN23-CNRS) which also have strong groups at LHC (including CMS) and at the Tevatron will contribute to the scientific strength of the project.

The scientific program will build on the previous HCP programs, but potentially very important results which could be announced anytime in the spring of 2009, will probably necessitate to reserve some slots for last minute results.

In conclusion, we are looking forward to welcome you in Paris in 2009,

Best Regards,

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