

Report of activities during the visit to CERN from June 21 to July 23 of 2006

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The Experimental High Energy Physics Group of Universidad de los Andes was accepted a member of CMS Collaboration in the spring of 2006. As part of the group I travelled to CERN for a period of a month with the specific task of starting conversations with various members of the collaboration in order to establish our participation in the scientific activities of CMS.

Upon my arrival to Geneva I met with Dr. Archana Sharma, who had been supervising our graduate student Camilo Carrillo since January of 2006. She advised me to meet with Dr. Lucia Silvestris, head of the CMS Software Group and Dr. Oliver Buchmuller, who is in charge of alignment activities. After a conversation with them it became clear that our group could contribute the most in software development, so I was advised to talk with Luca Malgeri, Paolo Ronchese, Igor Vorobiev, Marcello Abbrescia, Tim Cox, Ianna Osborne, Teresa Rodrigo, Nicola Amapane and Marcello Maggi, all of them working on different aspects of software development. After having conversations with them we came to the conclusion that our group could write software for the muon system, working with the group of Marcello Maggi and Nicola Amapane. Camilo Carrillo, our student will stay at CERN until December and join their effort. In the mean while we in Bogotá will work on developing the means to simulate the noise produced in the muon chambers due to the neutron pollution and to the electronics. Once our activities were defined, we started working on them right away, taking advantage of being at CERN.

In summary my visit to CERN was very productive since our group was able to establish the tasks with which we will start our collaboration with CMS. I also participated in early conversations with Dr. Daniel Denegris about physics analysis and thesis topics for our students. This effort was continued by my colleagues Dr. Bernardo Gomez and Dr. Carlos Avila, who arrived later and focused part of their activities on defining our participation on the physics analysis as well as in the computing effort.

The economical support that we have received from the HELEN project this year has allowed our student Camilo Carrillo to stay at CERN for almost a full year, and made it possible for Drs. Bernardo Gomez, Carlos Avila and myself to establish in concrete terms our participation in the CMS Collaboration.

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