

Rio de Janeiro, August 4, 2006.

HELEN Report

From February 1 to March 3 of this year I have been at CERN developing the following activities, in the LHCb Muon Group:

- Updating a test setup comprising a data processing module used to test muon chambers and a dedicated control software. This module is part of a system developed by our group in order to test uniformity measurements of Multi-Wire-Proportional-Chambers (MWPC) for the LHCb Muon System.
- Commissioning of this new version of module (hardware and software).
- Testing muon chambers produced at CERN, analysing the results and producing reports for each chamber.
- Participating at meetings of the LHCb Muon Group at CERN, following technical discussions and planning next actions of the collaboration of our group in Brazil with the LHCb Muon Group at CERN. Discussing also improvements in the hardware and software of the test setup for muon chambers.

The time I spent at CERN, with support from HELEN, was highly important for my career in the sense of the fruitful discussions I had with scientists and students at CERN, and for the experimental experience acquired.

Herman Pessoa Lima Junior