

Grenoble France, the 9th of August, 2006

Activity Report

Activity report of Ernesto Belmont Moreno for the period from 25 of July to 9 of August 2006 in the laboratory LPSC of Grenoble France as part of the HELEN Program for the AMS collaboration.

This work was done together with the student Hermes Leon an and in the short period of coincidence with Arturo Menchaca.

First was the end of thickness measurement of the existent batch of aerogels. After the thickness measurement we finished the optical measurement of the refraction index gradient. Once with this numbers we learned the data analysis framework package ROOT and the C++ CINT emulator to do an analysis of the data. For this purpose we started with a previous listing provided by Mariane Brinet and constructed an algorithm to extrapolate linearly the edge of the 7 different shapes of the aerogel tiles. Once tested the consistency of results we proceed to construct an extrapolation program using the internal ROOT subroutines of interpolatrion to also extrapolate the edge. As a final task we start the program for visulization the whole value and create new files with the new figures.

Yours

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