

Dra.
Veronica Riquer
HELEN Project Coordination

Dear Dra. Riquer:

I would like to inform you about the research work that I have realized during mi stay in the TH-PH Unit at CERN from 02-07-2006 until 19-08-2006.

During this period I have focused my research work in the calculation and study of the most general neutrino mass matrix which is obtained by mean of the see-saw mechanism of type II in the context of the left-right symmetric model. The obtention of this matrix is of interest in the generation of the baryonic asymmetric of the Universe via the leptogenesis mechanism. As a product of this research work I have started to write the paper "The most general neutrino mass matrix in the left-right symmetric model". I hope to finish this paper in the next months.

I thanks Helen Project for the research training fellowship that I received to stay at CERN.

Sincerely

Carlos Quimbay
Associate Professor
Department of Physics
Universidad Nacional de Colombia