

Report of the Activities that I, John Morales, carried out during my visit to the Cinvestav, since 24 of july to 15 of august (2006).

Of my visit to the Cinvestav in the Mexico City, which was support by the HELEN project, is important to emphasize the following aspects.

First: this period in the Cinvestav served me to advance calculations, which I am developing in Colombia with the contribution of members of group of fields and particles, which are related with the study the pions dispersion at finite temperature utilizing the large N approximation. The advances of these calculations were due to two aspects. One, the month that I was in the Cinvestav, I could work complete time in this problem, but it more important was have had access to a very good library with all necessary bibliography necessary to be able to do investigation. But more important it was to have access a very good library with all bibliography necessary to be able to do investigation

Second: During this time also established a collaboration with the Doctor Gabriel López Castro, which we will expect can be maintained and in this manner to create a bond a great deal stronger among the Cinvestav and the National University of Colombia. The job with the doctor López consists of studying the gauge invariance and the absorptive corrections of the $\Delta^{++}(1232)$ propagator.

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