



Contribution ID: 1213

Type: **Poster contribution**

LAGO Ecuador, Implementing a set of WCD detectors for Space weather research: first results and further developments

Thursday 30 July 2015 15:30 (1 hour)

The Latin American Giant Observatory (LAGO) is an astroparticle network focused in the study of the phenomenology of Cosmic Rays (CR) in different energy ranges, using water Cherenkov Detectors (WCD). Ecuador has been working in the LAGO project for almost 3 years in which three detectors had been placed in different universities of the country (one in the city of Riobamba and two in the city of Quito). A complete set of simulations have been performed within the LAGO simulation framework, based on a combination of Magnetocosmics, CORSIKA and GEANT4 codes. In this work, the detector characterization, calibration and the first Ecuadorian data is presented.

Registration number following "ICRC2015-I"

396

Authors: MANTILLA SUAREZ, Cristina Ana (Florida Institute of Technology (US)); CAZAR RAMÍREZ, Dennis (Universidad San Francisco de Quito); Dr MARTINEZ, Oscar (Facultad de Ciencias Fisico-Matematicas, Universidad Autonoma de Puebla); VARGAS, Stephany (Escuela Politécnica Nacional)

Co-authors: Dr CARRERA JARRIN, Edgar (Boston University); Dr VÁSQUEZ, Nicolás (Escuela Politécnica Nacional)

Presenter: VARGAS, Stephany (Escuela Politécnica Nacional)

Session Classification: Poster 1 SH

Track Classification: SH-EX