

The Latin American Giant Observatory

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The Latin American Giant Observatory (LAGO) consists of a network of water Cherenkov detectors (WCDs) with the aim of measuring the secondary cosmic rays flux at ground level. It is distributed across 10 countries in Latin America, from Mexico to Antarctica, at several altitudes, from sea level to 5200 m.a.s.l. The decentralized nature of this network has forced the development of a simple and robust detector, as well as an autonomous, synchronized acquisition system, with the capacity to perform on-site analysis.

In this talk we will discuss LAGO's scientific programs: high energy astrophysics, space weather and ground level radiation; also, the LAGO training program, which includes the design, operation and simulation of the detectors. Finally, we present the current state of the detectors network, some results and future prospects.

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Author: Mr OTINIANO, Luis (CONIDA)

Co-author: FOR THE LAGO COLLABORATION (<http://lagoproject.org/>, see the full collaboration member list at <http://lagoproject.org/collab.html>)

Presenter: Mr OTINIANO, Luis (CONIDA)

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