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Development of a High Altitude LAGO Site in Peru

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The Latin American Giant Observatory (LAGO) Project is an extended Cosmic Ray Observatory mainly oriented to perform basic research in three branches: high energy phenomena, space weather and atmospheric radiation at ground level. To observe the high energy component (over 10 GeV) of Gamma Ray Bursts (GRBs), the LAGO Collaboration is installing Water Cherenkov Detectors (WCDs) in high altitude sites.

Extensive Air Showers (EAS) produced in the atmosphere by GRBs high energy photons could be detected by WCD arrays given their good sensitivity to secondary photons and other particles in the cascades, by looking for excesses over the secondary particle flux. In this work the current developments to build and characterize a high altitude (> 4600 m a.s.l.) LAGO site in the central highlands of Peru are described.

Collaboration

LAGO

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