

AtmoHEAD 2014: Atmospheric Monitoring for High Energy AstroParticle Detectors



Contribution ID: 40

Type: Oral

Science and More with Lasers and Astroparticle Observatories

Monday, 19 May 2014 17:00 (35 minutes)

Between the experiments in operation, including Auger and Telescope array, planned upgrades to Auger and TA, and activities in progress to realize JEM-EUSO and CTA, there is a growing interest in the design and applications of laser systems for optical astroparticle observatories. There are no particle test beams at EeV energies. Laser systems placed in the field have a history of providing a cost-effective and practical alternative. The bistatic lidar arrangement in which the astroparticle detector is the receiver, offers the opportunity to explore a variety of techniques and measurements. Some of these, various practical and design considerations will be the topic of this presentation.

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Session Classification: Highlights