



Contribution ID: 83

Type: **Oral**

Atmospheric Monitoring for Astroparticle Physics Observatories

Wednesday, 19 June 2024 12:30 (30 minutes)

For many observatories recording high-energy cosmic rays, gamma rays, or neutrinos, the Earth's atmosphere is either an integral part or at least a considerable aspect of the detector setup. Several aspects of the influence of the atmosphere and its variability on the development of the observed particle cascades and the signal detected from them will be discussed. Also some atmospheric monitoring strategies implemented by the different observatories will be described. Examples of the impact of atmospheric parameters and profiles on the core data of these observatories will be given.

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Session Classification: Galactic and Solar Cosmic Rays

Track Classification: Ultra-High Energy Cosmic Rays