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Measurement of the Aerosol Phase Function by the Central Laser Facility at the Pierre Auger Observatory

Tuesday, 14 September 2010 15:00 (30 minutes)

In the Pierre Auger Observatory, the Central Laser Facility (or CLF) emits all along the night laser shots in the field of view of the four fluorescence buildings. The goal of this talk is to show how it is possible to monitor the aerosols during the night. Two obtained quantities should be present: the Aerosol Phase Function (linked to the probability density function of the scattering angles) and the Aerosol attenuation length (linked to the aerosol concentration).

Primary author: LOUEDEC, Karim

Presenter: LOUEDEC, Karim

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