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Multiwavelength scanning Raman lidar for atmospheric transmission measurements in the frame of CTA – Auger projects

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Cosmic ray detection performed by Pierre Auger fluorescence detectors and galactic and extragalactic gamma rays observations from CTA (Cherenkov Telescope Array) telescopes need atmospheric transmission calibration to reduce measurement uncertainties. A multiwavelength scanning Raman lidar is being constructed at CEILAP (CITEFA-CONICET) to perform this calibration by measuring the atmospheric transmission. This presentation describes the main requirements presented by the collaboration, the simulation that leads to the final system design and the actual state of the lidar construction.