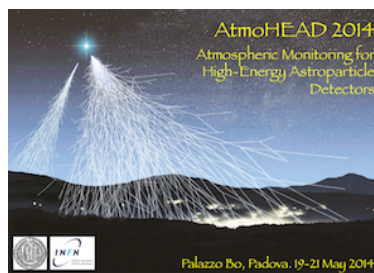


## AtmoHEAD 2014: Atmospheric Monitoring for High Energy AstroParticle Detectors



Contribution ID: 54

Type: Oral

### Weather and atmosphere observation with the ATOM all-sky camera

*Wednesday, 21 May 2014 14:30 (35 minutes)*

The Automated Telescope for Optical Monitoring for H.E.S.S. (ATOM) is an optical 75cm telescope which operates fully automated. As there is no observer present during observation, an auxiliary all-sky camera serves as weather monitoring system. This device takes an 180° image of the whole sky every three minutes. The gathered data then undergoes live-analysis by performing astrometric comparison with a theoretical night sky model, interpreting the absence of stars as cloud coverage. It also serves as tool for a meteorological analysis of the observation site of the the upcoming Cherenkov Telescope Array (CTA). This presentation covers design and benefits of the all-sky camera and additionally gives an introduction into current efforts to integrate the device into the atmosphere analysis programme of H.E.S.S.

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