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Type: **Talk**

## Atmospheric simulations for the Cherenkov Telescope Array (CTA)

*mardi 11 juin 2013 10:00 (30 minutes)*

The Cherenkov Telescope Array (CTA) will be the world's first observatory for detecting gamma-rays from astrophysical phenomena and is now in its prototyping phase with construction expected to begin in 2015/16. In this talk we will discuss the detailed simulation studies performed to assess the need for atmospheric monitoring and the methods by which correction for atmospheric variation may be achieved. This will include discussion of some lidar analysis methods with a view to determining a range resolved atmospheric transmission in order to determine an appropriate atmospheric model for use in simulations.

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**Classification de Session:** Tuesday morning 1

**Classification de thématique:** Simulations, modeling, and reconstruction