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AO system design

Tuesday 1 October 2024 11:00 (1h 30m)

This lecture provides an introduction to the design of AO systems: how to specify wavefront sensors, wavefront correctors, AO control systems, and implementation errors based on performance requirements, such as residual wavefront error and sky coverage, and observing conditions, such as atmospheric turbulence and observatory-induced disturbances. The lecture will show how residual errors can be broken down into an error budget that can be used to optimize the design. We will focus on single-conjugate AO systems, exploring both NGS AO and LGS AO, and discussing the pros and cons and each modality.

Presenter: Dr VERAN, Jean-Pierre (NRC-HAA)

Session Classification: Class