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Title: Cn² profiler for the AOF

Abstract:

Telemetry data can provide a vast source of diagnostics for adaptive optics systems. It allows a real-time and/or posterior evaluation of the system performance and a glimpse on the nature of the turbulence in the observing site. Tools have been under development in the context of the Adaptive Optics Facility (AOF) to allow an efficient testing of important parameters for its sub-systems. One of these tools consists of a Cn² profiler that uses the slopes and commands retrieved by SPARTA to reconstruct the turbulence distribution in altitude. The specific algorithm to be used with AOF has been adapted from the code originally developed for the GeMS geometry. I describe in this talk the extensive list of tests carried out through Octopus simulations to assess the sensitivity and limitations of the code applied to AOF.