

Author: Leonardo Blanco (Laboratoire d'Astrophysique de Marseille)

Date: December 4th, 2018

Venue: ESO Telescopium auditorium

Title: LTAO simulations at LAM

Abstract:

During this lunch talk I will present the adaptive optics simulation tool used at Laboratoire d'Astrophysique de Marseille (LAM), in particular for the design of the HARMONI Laser Tomographic Adaptive Optics (LTAO) module. This simulation tool is based on the Object-Oriented, Matlab, Adaptive Optics simulator (OOMAO). I will also present LTAO simulation results mainly tackling issues due to Laser Guide Star (LGS) spot truncation in Shack-Hartmann wavefront sensing.

Biography:

Leonardo Blanco is an Adaptive Optics engineer with a background in various high-angular resolution and wavefront control applications : retinal imaging with adaptive optics, laser beamshaping and adaptive optics for astronomy. He did his PhD at ONERA and LESIA, in Paris and now works at LAM on the HARMONI project. He will soon move to Paranal where he will reinforce the instrumentation team as an AO instrumentation engineer, starting his duty on January 2019.