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Date 28/11/2013

Time & Place: 12:00 Auditorium

Title: Austrian InKind Contribution: Introduction (Enrico Fedrigo) and Overview of Mathematical Algorithms and Software for E-ELT Adaptive Optics (Ronny Ramlau)

Abstracts:

Enrico Fedrigo

Introduction to the Austrian in-kind contribution for AO: Definition of the project and a brief historical overview through the project's major milestones.

Ronny Ramlau:

Austrian InKind Contribution: Mathematical Algorithms and Software for E-ELT Adaptive Optics

When Austria joined ESO in 2008, a scientific InKind project was defined as a contribution to ESO. The aim of the project was the development of fast reconstructors for different Adaptive Optics Systems for the ELT. In our talk, we will give an overview of the tasks and results of the project. In particular we will give a short introduction to Adaptive Optics, followed by a presentation of the algorithms developed by the Austrian Adaptive Optics Team. The focus will be on quality and speed results of our methods for SCAO, XAO, MCAO and MOAO. The algorithms will be introduced in greater detail in the following talks.