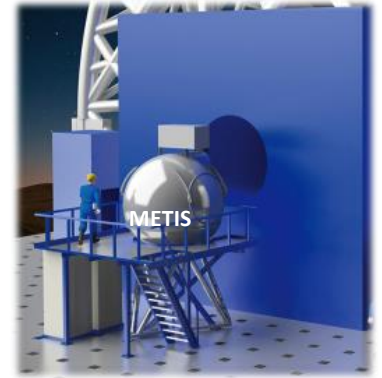


ESO E-ELT INSTRUMENT



INSTRUMENT ACRONYM and FULL NAME:

METIS – the **M**id-infrared **E**-ELT **I**mager and **S**pectrograph

SCIENTIFIC OBJECTIVES:

METIS covers a wide range of science objectives from our own Solar Systems, to active galaxies at intermediate redshift. However, the two main science drivers are the study of proto-planetary disks, and the detection and characterization of exoplanets.

SPECS & TECHNICAL CHALLENGES (R&D needed, procurement opportunities):

- opto-mechanical precision mechanisms and components
- systems engineering and calibration strategies
- precision optical aluminium mirrors (spherical and non-spherical)
- high resolution gratings
- cryogenic actuation and motion devices
- mid-infrared spectral filters
- cryogenic systems and vibration-free cooling

POINT OF CONTACT:

Dr. Bernhard R. Brandl (Instrument PI)
Professor of Infrared Astronomy
Sterrewacht Leiden, Leiden University
P.O. Box 9513, 2300 RA Leiden, The Netherlands
phone: +31 (0)71 527 5830; email: brandl@strw.leidenuniv.nl

CONSORTIUM:

The consortium includes seven international partners: (1) the Netherlands Research School for Astronomy (NOVA), (2) the Max-Planck-Institut für Astronomie in Heidelberg, (3) the Centre d'Etudes Nucléaires de Saclay, (4) the Eidgenössische Technische Hochschule Zürich, (5) the KU Leuven Institute of Astronomy, (6) the UK Astronomy Technology Centre in Edinburgh, and (7) the University of Vienna on behalf of the A* consortium.

WEBSITE:

<http://metis.strw.leidenuniv.nl/> (outdated – will be revised soon)

TIMELINE:

