

Abstract:

MAORY is a first-light instrument of the ESO Extremely Large Telescope that is being designed and built by a Consortium led by INAF and including INSU-IPAG as a partner and ESO. Six INAF institutes are involved in the project: OA Bologna, IASF Bologna, OA Arcetri, OA Brera, OA Capodimonte, OA Padova, under the lead of Optical Technology group of the Bologna Observatory (PI: Emiliano Diolaiti). MAORY will be integrated in the IASF-Bo laboratories.

It is an Adaptive Optic module that will feed the NIR imager/spectrograph MICADO with

(1) high Strehl ratio diffraction limit images over a $D < 10''$ FoV (SCAO mode), and
(2) moderate Strehl ratio diffraction limit images with an homogeneous correction over

a FoV of $50'' \times 50''$. The MAORY Science Team is developing science cases for MAORY+MICADO, also

in view of the conspicuous GTO that will be awarded to INAF for building up the module.

This talk is intended to serve as a call for contributions to science cases for INAF and INAF-associated scientists.