Instituto de Astronomía
Universidad Nacional Autónoma de México
Sede Ensenada, Baja California, México

Seminario de Investigación

Miércoles, 13 de Febrero de 2013
11:00 hrs, Auditorio IA-Ensenada

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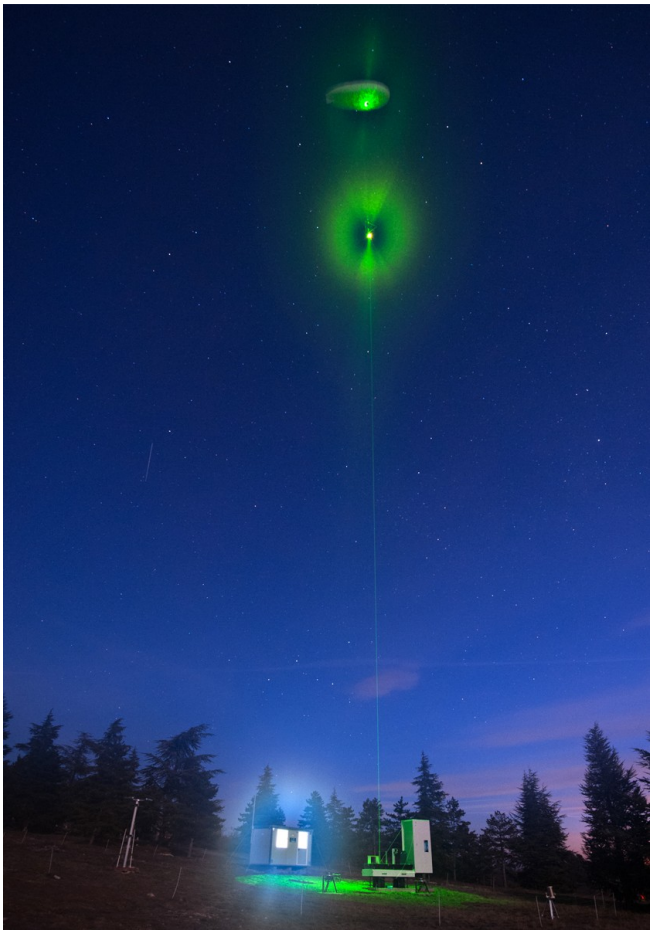
"AN OVERVIEW OF THE CARLINA-TYPE DILUTED TELESCOPE"



Carlina is a new concept of optical and near infrared interferometer similar to the Arecibo radio telescope. The primary mirror is diluted into a set of co-spherical 20cm segments separated by several meters. This pattern of mirrors produces an high-resolution interferometric image of the sky on the focal sphere. The image is retrieved by an helium balloon which carries a gondola containing the focal optics. A system of cables and winches allow to point and follow an object, and to control the stability of the system. We give an overview of this system and we show the capabilities of the technical demonstrator developed during these last ten years at the Haute-Provence Observatory (France). This concept of diluted telescope could complement ELTs and kilometer interferometers.