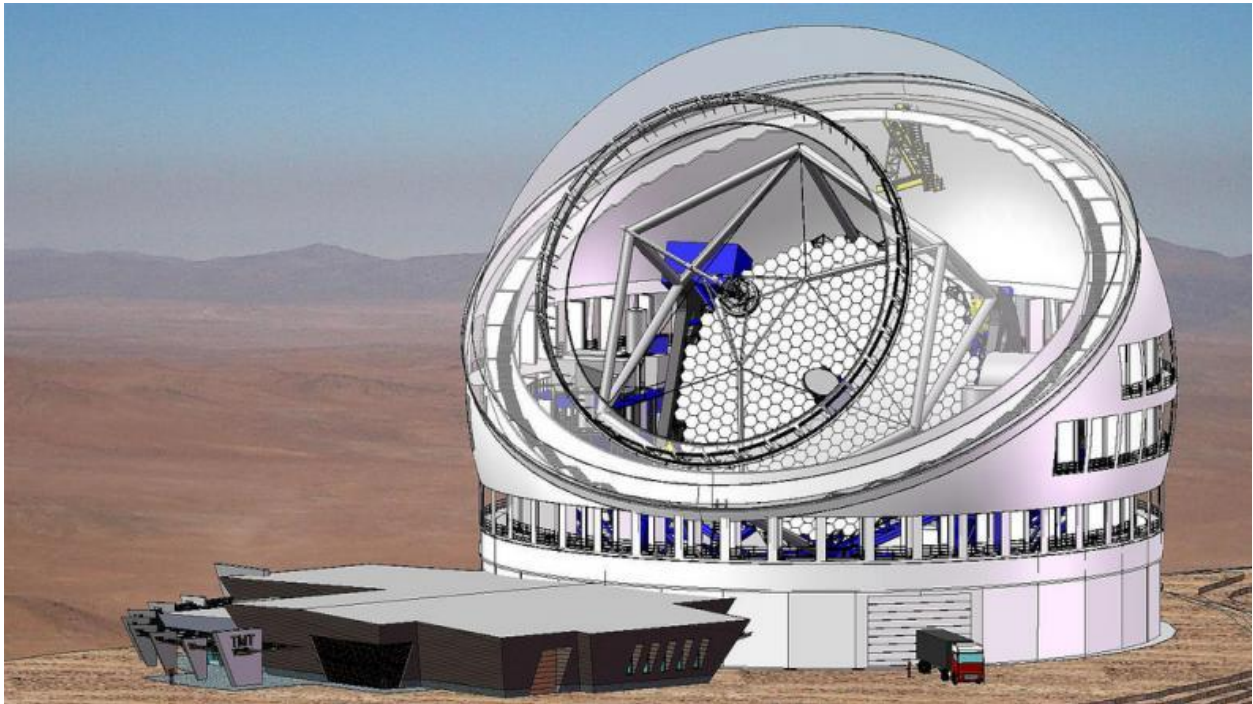


RIT COLLEGE OF SCIENCE

ASTROPHYSICAL SCIENCES & TECHNOLOGY  
AND  
THE CENTER FOR DETECTORS PRESENT

Dr. Bahram Mobasher  
University of California, Riverside



**MONDAY, OCTOBER 31, 2011**

**4:15 – 5:15 PM**

**RIT CARLSON CENTER, BLDG. 76 – ROOM 1275**

### **The Thirty Meter Telescope: Instruments and the Science Case**

In this talk I will review current progress on the Thirty Meter Telescope (TMT) and the future plans. I will discuss the first light instruments designed for the TMT and their capabilities. In particular, I will talk about the Infra-Red Multi-object Spectrograph (IRMS), one of the three first-light instruments on the TMT, its potential compared to current facilities (i.e. the Keck) and how it could be developed using the same concepts as the current infrared spectrograph (MOSFIRE) on the Keck telescope. I will present a set of the outstanding scientific questions which need to be resolved by observations using the combination of the TMT and its state-of-the-art instruments.

**Biographical information:** Bahram Mobasher is a Professor of Physics and Observational Astronomy, University of California, Riverside.