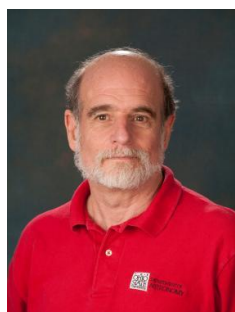


国台学术报告 NAOC COLLOQUIUM

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Microlensing Planets (and Beyond) In the Era of Large Surveys

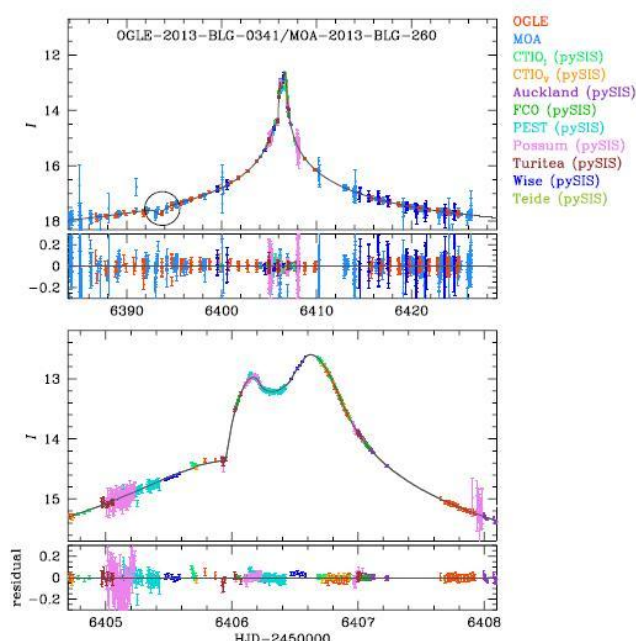


Prof. Andrew Gould (The Ohio State University)

Andrew Gould is a professor of Astronomy at the Department of Astronomy, Ohio State University, and was awarded the Visiting Professorship for Senior International Scientist of CAS in NAOC. He is the Thomas Jefferson Professor for Discovery and Space Exploration, Distinguished Professor of Mathematical and Physical Sciences, and the University Distinguished Scholar. He obtained his PhD degree in Physics at Stanford University in 1988. His research interests are gravitational microlensing, planet discovery and characterization and identifying & measuring dark matter.

Abstract

Microlensing planet searches are moving from its boutique phase to mass production. I review the major discoveries of the first period, including external solar-like systems, cold Neptunes, and a population of super-Jupiters orbiting M dwarfs that seems to contradict the standard paradigm for planet formation. I then discuss the new types of discoveries that are being made during the transition between these phases, such as an immense population of free-floating planets and extremely frigid Earth-mass planets orbiting M dwarfs. Finally I discuss the implications of the new mass production phase, which should be in full operation within 18 months.



All are welcome! Tea, coffee, biscuits will be served at 2:15 P.M.

You are welcome to nominate speakers to Weimin Yuan (wmy@nao.cas.cn), Mei Zhang (zhangmei@bao.ac.cn), Licai Deng (licai@bao.ac.cn), Xuelei Chen (xuelei@cosmology.bao.ac.cn), Shude Mao (smao@nao.cas.cn)