

# 国台学术报告 NAOC COLLOQUIUM

2013 年 第 52 次 / Number 52, 2013

**TIME: Wednesday, 2:30 PM, Sep. 18, 2013**    **LOCATION: A601 NAOC**

## Probing the baryonic processes at high redshifts from the Milky Way dwarf satellites

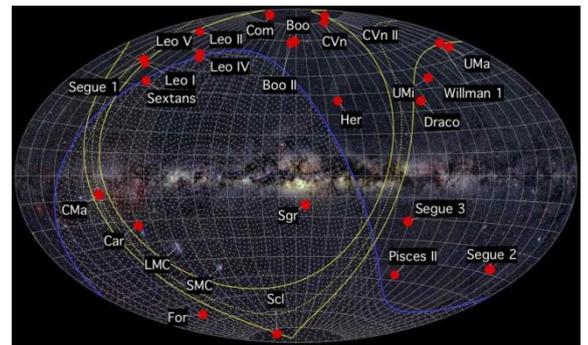
**Prof. Qingjuan Yu (PKU/KIAA)**



Dr. Qingjuan Yu is a professor at the Kavli Institute for Astronomy and Astrophysics, Peking University. She got her Ph.D. in Astrophysics from Princeton University. She was a postdoctoral fellow at the Canadian Institute for Theoretical Astrophysics, a Hubble Fellow at the University of California at Berkeley, and a research associate at the University of California at Santa Cruz. She joined Peking University as a professor in 2008. Her main research interests include galactic and planetary dynamics, black hole physics and active galactic nuclei, formation and evolution of galaxies and supermassive black holes, and the reionization of the Universe.

### Abstract

The dwarf satellites in the Milky Way are among the smallest and faintest galaxies in the universe. They are one of the most representative classes of objects for studying various baryonic processes involved in the extreme edge of galaxy formation and in the early universe. In this talk, I will report our study on the stellar chemical properties, the star formation and assembling history of the dwarf satellites around the Milky Way-like host galaxies. I will talk about the possible imprints of the various physical processes (including supernova feedback, the reionization of the universe, and molecular hydrogen cooling) on the metallicity and age distributions of the satellites, as well as on their metallicity versus stellar mass/luminosity correlation. I will further discuss how the current and future observations would put strong constraints on those processes.



*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](mailto:wmy@nao.cas.cn)), Mei Zhang ([zhangmei@bao.ac.cn](mailto:zhangmei@bao.ac.cn)), Licai Deng ([licai@bao.ac.cn](mailto:licai@bao.ac.cn)), Xuelei Chen ([xuelei@cosmology.bao.ac.cn](mailto:xuelei@cosmology.bao.ac.cn)), Shude Mao ([smao@nao.cas.cn](mailto:smao@nao.cas.cn))