

国台学术报告 NAOC COLLOQUIUM

2013 年 第 27 次 / Number 27, 2013

TIME: Wednesday, 2:30 PM, May 29, 2013 **LOCATION: A601 NAOC**

What did we learn about the Milky Way during the last decade, and what shall we learn using Gaia and LSST?



Prof. Zeljko Ivezić (University of Washington)

Željko Ivezić is currently a professor of astronomy at the University of Washington in Seattle, and serves as the Project Scientist and the Chair of the Science Council for the Large Synoptic Survey Telescope. He completed his undergraduate studies of mechanical engineering and physics at the University of Zagreb, Croatia. After obtaining his Ph.D. in astrophysics at the University of Kentucky, he spent seven years at Princeton University working on the development of the Sloan Digital Sky Survey. His research is unusually broad and includes studies of asteroids in our Solar System, stars, the Milky Way structure, as well as properties of galaxies and quasars. A common theme of his work is applications of statistical data mining and machine learning methods to modern massive astronomical datasets.

Abstract

Studies of stellar populations, understood to mean collections of stars with common spatial, kinematic, chemical, and/or age distributions, have been reinvigorated during the last decade by the advent of large-area sky surveys such as SDSS, 2MASS, RAVE, and others. These data, together with theoretical and modeling advances, are revolutionizing our understanding of the nature of the Milky Way, and galaxy formation and evolution in general. These recent developments have made it clear that the Milky Way is a complex and dynamic structure, one that is still being shaped by the merging of neighboring smaller galaxies. I will review the progress over the last decade, and will briefly discuss new breakthroughs expected from Gaia and LSST surveys, which will improve measurement precision manyfold, and comprise billions of individual stars.



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)