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国台学术报告 NAOC COLLOQUIUM

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Time: Wednesday 2:30PM, Nov. 26 Location: A135 NAOC

Star Formation In Nearby “Extreme” Galaxies

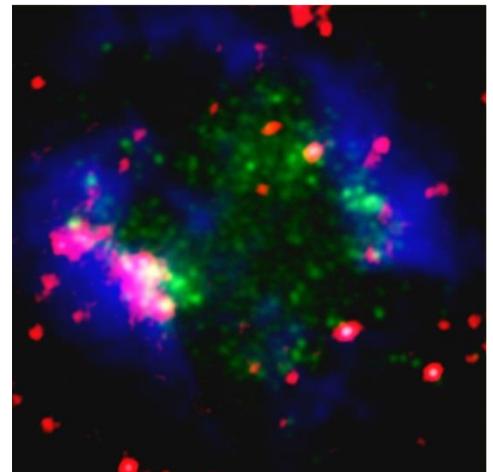
Dr. Yong Shi (Nanjing University)



Dr. Yong Shi is a professor of the School of Astronomy and Space Science at Nanjing University. He got his bachelor degree at Peking University in 2003, and then studied at University of Arizona and received his Ph.D. in astronomy in 2008. He then spent another year there as a post-doctor before moving to California Institute Of Technology as a post-doctor from 2009 to 2013. In early 2013, he joined the School of Astronomy and Space Science at Nanjing University. Yong’s research interests include star formation, active galactic nuclei and galaxy formation.

Abstract

Star formation is a key physical process of baryonic matters, and plays crucial roles in driving galaxy formation and evolution. The observed relationship between star formation rates and gas masses offers a powerful empirical way in understanding star formation and is widely invoked in numerical simulations of galaxy formation and evolution. In the past decade, the rich multi-wavelength data of nearby galaxies have enabled well characterizations of this gas-SFR relationship. However, the majority of these works focuses on studies of galaxies that are typical in the local universe but may be largely different from those in the early Universe. In this talk, I will represent our recent works along with other’s that probe star formation in nearby extreme galaxies, such as galaxy outer disks, extreme low metallicity galaxies, mergers etc. All these works challenge the traditional SFR-gas relationship, implying that different physical mechanisms may play roles in star formation during galaxy evolution.



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