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# 国台学术报告 NAOC COLLOQUIUM

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**Time: Wed., 2:30 PM, Jul 5<sup>th</sup> Location: A601, NAOC & Live Streaming**

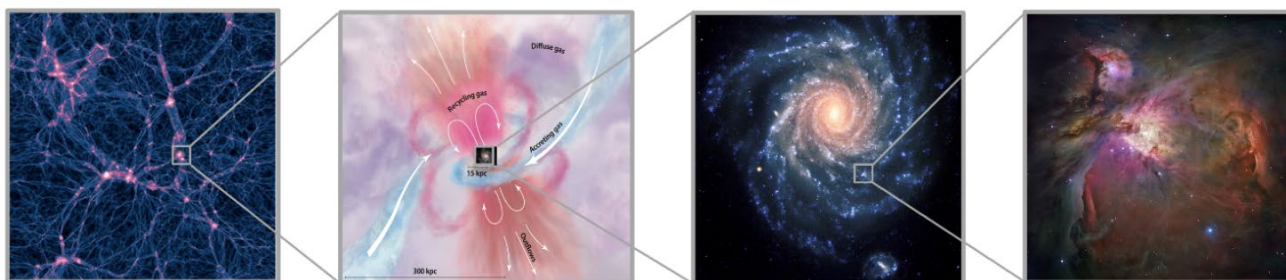
## The gas content and dwarf galaxy population in low-*z* dark matter halos

**Prof. Cheng Li (Tsinghua University)**



Cheng Li is a Professor of Department of Astronomy at Tsinghua University in Beijing. Before he joined Tsinghua in September 2015, he worked at Shanghai Astronomical Observatory (SHAO) as a group leader (2010-2015), and at Max-Planck Institute for Astrophysics (2007-2010) and SHAO (2006-2007) as a postdoc. He obtained his PhD from University of Science and Technology of China (USTC) in 2006. His research covers a wide range of topics on the formation and evolution of galaxies, circumgalactic medium and intergalactic medium, as well as the large-scale structure of the Universe. He is a member of the SDSS-IV project (2014-2020) and the upcoming Subaru/PFS project. More information about Cheng Li can be found on the website <https://lig.astro.tsinghua.edu.cn/>.

### Abstract



Galaxies are evolving ecosystems of multiple components which interplay with each other and are distributed over a wide range of spatial scale, from sub-galactic scales up to scales of dark matter halos. Our understanding of the galaxy ecosystems has largely been limited to relatively bright galaxies, however. Other components such as gas of different phases as well as dwarf galaxies with stellar mass below about  $10^9$  solar mass are still poorly understood. I will talk about our recent studies of the abundance, formation and quenching of low-*z* dwarf galaxies with stellar mass down to  $\sim 10^7$  solar mass. I will also talk about our measurements of the cool gas and atomic gas content in low-*z* dark matter halos.

*All are welcome ! Live Streaming QR Code* 

