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国台学术报告 NAOC COLLOQUIUM

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Time: Wednesday 2:30PM, June 04 Location: A601 NAOC

The circumgalactic medium

Prof. Qingde Daniel Wang (University of Massachusetts)

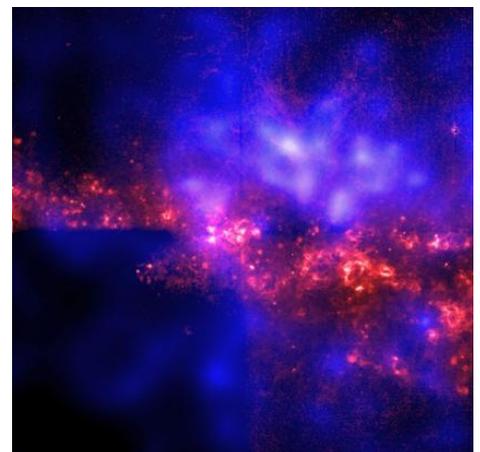


Q. Daniel Wang is a Professor in the Department of Astronomy at the University of Massachusetts at Amherst. He received his Ph.D. in Astronomy in 1990 from Columbia University. He was awarded the ASP Robert J. Trumpler Award for Outstanding North American Ph.D. Dissertation Research in Astronomy. He was then an Edwin P. Hubble postdoctoral fellow at University of Colorado and later a Lindheimer fellow at Northwestern University. He was also a member of the Institute for Advanced Study at Princeton and had a recent extended stay at University of Cambridge as a Raymond and Beverley Sackler Distinguished Visiting Astronomer. He was the Siyuan Visiting Chair Professor

and is now the Yixing Visiting Chair Professor in the School of Astronomy and Space Science at Nanjing University. He served on a Frontier Science Panel of US Astro 2010 - the Decadal Survey on Astronomy and Astrophysics. He has published 150+ research papers in refereed journals, including four in Nature and one in Science as the lead author and one single author paper on PNAS; about 50 over the last five years. His publication covers a broad range of topics: compact stars, supernova remnants, superbubbles, hot circumgalactic and intergalactic media, and hydrodynamic simulations of hot gas, as well as galactic nuclei and their environments. His current research focuses on the hot interstellar and intergalactic media, the feedback and evolution of galaxies, and galactic nuclear regions. He mainly uses radio, infrared, ultraviolet, and X-ray observations to conduct these studies. He also carries out theoretical and computational studies with his students and collaborators.

Abstract

The least understood aspect of a galaxy is usually its circumgalactic medium, which represents the interface between the interstellar and intergalactic media. As a depository of galactic feedback and a reservoir of materials for star formation, the circumgalactic medium is a key component of the galactic ecosystem and contains the bulk of the baryon mass associated with the dark matter halos of individual galaxies. I will review recent efforts to characterize the medium, focusing on the comparison between observations and theoretical predictions and on related physical processes. I will further discuss how ongoing/future observations from radio to X-ray will greatly advance our understanding of the medium, hence its role in regulating galaxy formation and evolution.



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