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国台学术报告 NAOC COLLOQUIUM

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Time: **Wednesday 2:30 PM, May.8th** Location: **A601, NAOC**

The Chandra Deep Fields: A Long Hard Look at the Universe

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Yongquan Xue is a professor in the Dept. of Astronomy, University of Science and Technology of China (USTC). He received his bachelor and master degrees from Peking University in July 2000 and July 2003, respectively, and his doctoral degree from Purdue University in May 2008. He then worked as a postdoctoral scholar at Pennsylvania State University. In May 2012 he joined USTC Astronomy as a professor through the Thousand Young Talents program of China. His main research interests are

X-ray high-energy astrophysics. In particular, he utilizes multiwavelength (especially X-ray) deep surveys to study AGN demography, physics, feedback, and evolution, co-evolution of galaxies and supermassive black holes, as well as many other interesting high-energy astrophysical phenomena.

Abstract

The Chandra Deep Fields (CDFs), being a major thrust among extragalactic X-ray surveys and complemented effectively by multiwavelength observations, have critically contributed to our dramatically improved characterization of the 0.5-8 keV cosmic X-ray background sources, the vast majority of which are distant active galactic nuclei (AGNs) and starburst and normal galaxies. In this talk, I highlight briefly a wide range of recent exciting results enabled by the CDFs, on AGNs, galaxies, galaxy groups, transients, etc., after providing the necessary background information.

I then conclude with a summary and future prospects for moving forward.



(Credit: NASA)

All are welcome ! Tea and coffee will be served at 2:15 PM.