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国台学术报告 NAOC COLLOQUIUM

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Time: **Wednesday 2:30 PM, Dec. 12th** Location: **A601, NAOC**

The Hubble Deep Field and its Legacy

Dr. Robert Williams

Space Telescope Science Institute

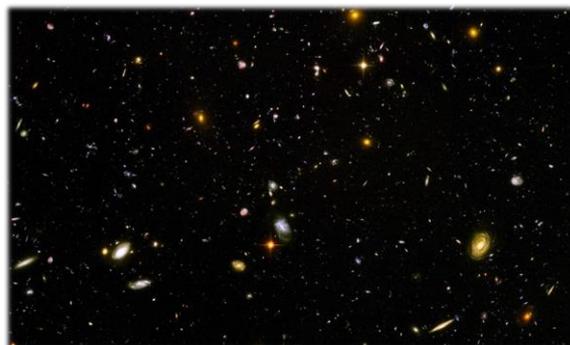


Dr. Robert Williams is currently Astronomer Emeritus at Space Telescope Science Institute (STScI) in Baltimore, and Distinguished Osterbrock Professor at the University of California, Santa Cruz. From 1993-98 he served as Director of the Institute, which with Goddard Space Flight Center operates Hubble Space Telescope for NASA and ESA. Before assuming his present positions Williams spent 8 years in Chile as Director of the Cerro Tololo Interamerican Observatory, the national observatory of the U.S. in the southern hemisphere. Prior to that time he was Professor of Astronomy at the University of Arizona in Tucson for 18 years. In 1998 he was awarded the Beatrice Tinsley Prize of the American Astronomical Society for his leadership of the Hubble Deep Field project, which revealed in remarkable detail the evolution of galaxies in the early universe.

For this project he was awarded the NASA Distinguished Public Service Medal in 1999. Dr. Williams is an elected member of the American Academy of Arts & Sciences, and is a Past President of the International Astronomical Union. In 2016 he was awarded the Karl Schwarzschild Medal for career achievement in astrophysics by the German Astronomische Gesellschaft. Dr. Williams' research specialties include novae, nebulae, and emission-line spectroscopy and analysis.

Abstract

The history of why and how the original Hubble Deep Field was undertaken will be described, including those features that made the observation unique. The characteristics of subsequent HST deep fields will be explained, including how they led to the discoveries of dark energy, the distribution of dark matter, and the rate of star formation since the Big Bang. The results of all the deep fields combined with recent detailed numerical simulations from supercomputers has now produced a realistic model for galaxy formation and evolution over cosmic time.



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