

John ZuHone – Colloquium Seminar – September 19, 2024
Chandra X-Ray Center
Center for Astrophysics / Harvard & Smithsonian

Title: "25 Years of Science with Chandra"

Abstract: High-energy astrophysical processes occur at a wide range of scales, from the solar system, to supernova explosions, to black hole accretion, up to galaxies and clusters of galaxies. One of the primary observational probes of these processes are observations in the X-ray band of the electromagnetic spectrum. Since the Earth's atmosphere is opaque to X-rays, such observations must be taken from space. In 1999, NASA launched the Chandra X-ray Observatory, with angular resolution far superior to any X-ray observatory before or since. It has expanded our view of the cosmos for the last 25 years, and is still making important discoveries. In this talk, I will introduce the mission and review some of the most important science highlights from Chandra over the past 25 years, and discuss prospects for future observations with this unique observatory.

Background Info:

Dr. John ZuHone is a staff astrophysicist on the ACIS Operations team at the Chandra X-ray Center at the Center for Astrophysics, Harvard & Smithsonian in Cambridge, MA. John's main research interests are simulations of large cosmic structures from galaxies to galaxy clusters, with a particular focus on the hot gas which emits primarily in X-rays. He received his Ph.D. in Astronomy & Astrophysics from the University of Chicago in 2009.