

Chandra X-Ray Kinematic Study of Young Supernova Remnants

Speaker: Dr. Sangwook Park (University of Texas at Arlington)

Date: 2018/4/16 (Mon) 16:20~17:30

Place: Physics meeting room (4th floor, building 1)

Abstract:

Supernova remnants are an excellent laboratory to study fundamental subjects of modern astronomy and astrophysics such as stellar evolution and explosion. Realizing the 3-dimensional structure of supernova explosions is critical to understand the explosion physics and the nature of the exploded star. Based on the high resolution grating spectroscopy of Chandra X-ray Observatory, we can perform X-ray kinematic studies of metal-rich stellar debris of supernova explosions to address their 3-D nature. We briefly discuss such kinematic studies of supernova remnants, including our on-going studies of historical events: stellar explosions eye-witnessed in 1987, 1604, and 1572.

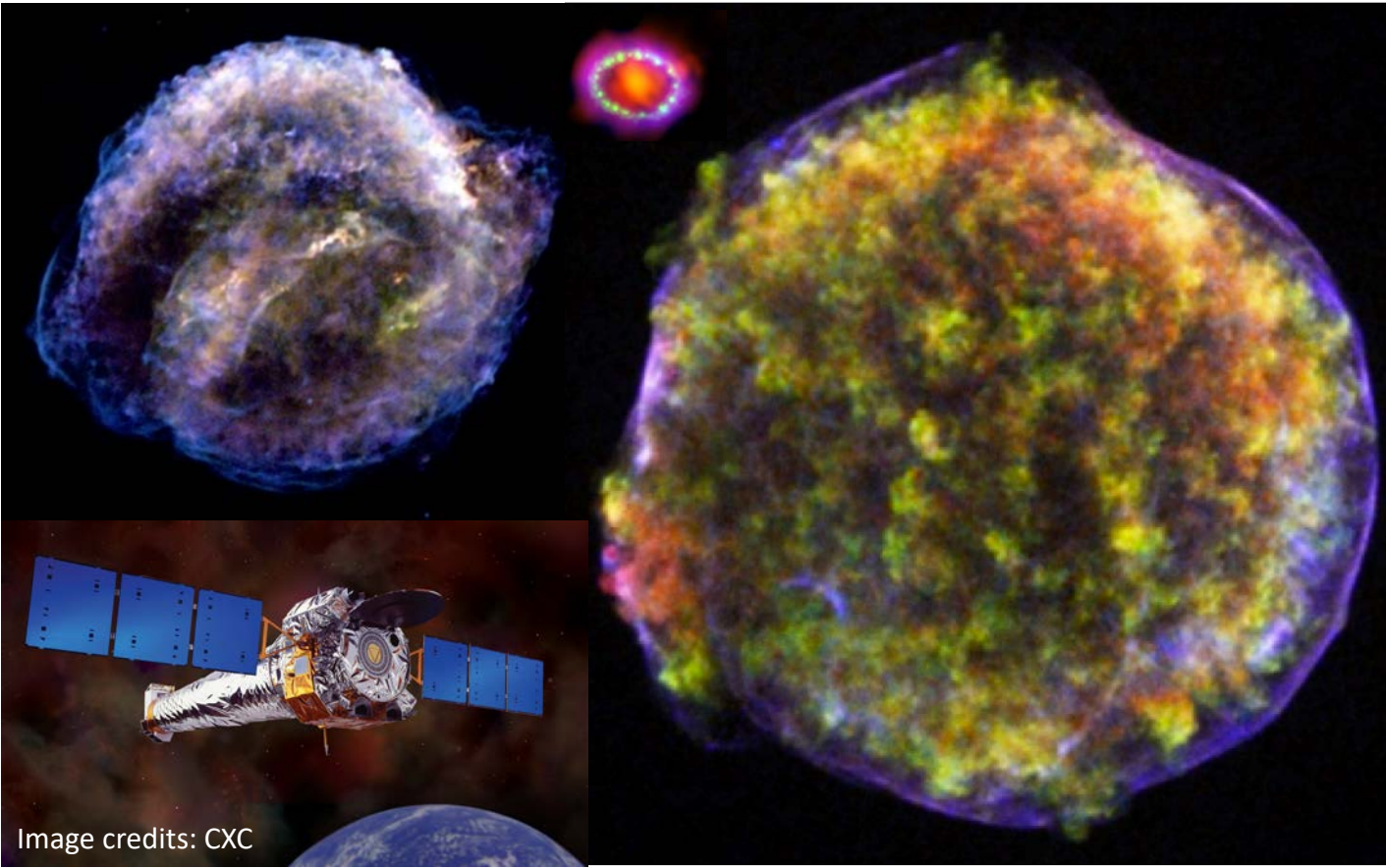


Image credits: CXC