

Astrophysics in Motion: First Stars, Galaxy Evolution, and Large Scale Structure



Dr. Matthew Turk

Assistant Research Professor of Astronomy
University of Illinois, Urbana-Champaign

The formation of the first stars in the Universe set the stage for subsequent generations of stars, through the chemical evolution of the first galaxies and ultimately to the formation of the Milky Way itself. In this talk, I will describe multiple avenues of studying the evolution of the Universe, beginning at the smallest scales and working outward: the detailed chemical, hydrodynamic and magnetic processes that govern the formation of the first stars and galaxies, the large-scale formation and evolution of galaxies, and the growth of the largest structures in the Universe. I will describe next-generation methods for studying these diverse phenomena, and discuss how these can be brought to bear on diverse problems and challenges in astrophysics.

Tuesday

March 21

12:30 P.M.

Rm 184 NSH