

Tuesday, November 17, 2:30 pm

Speaker: Kimberly Boddy

Institution: University of Texas at Austin

Title: Dark Matter Interactions throughout Cosmic History

Abstract: There is overwhelming evidence for the existence of dark matter. It plays a crucial role in the formation of structure in the Universe, yet little is known about its properties beyond gravitational effects. In this talk, I will discuss the current and future prospects of understanding the fundamental nature of dark matter through cosmological and astrophysical observations. In particular, I will focus on the impact of dark matter interactions with the Standard Model of particle physics. These observations offer glimpses into different cosmic eras that may shed light on the mystery of dark matter.