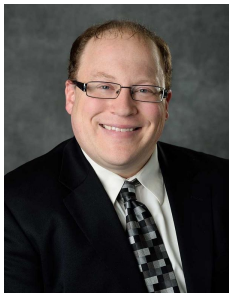
ASTROPHYSICS SEMINAR SERIES



Prof. Brian O'Shea

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Tuesday, September 3 12:30 pm - Rm 184 NSH

The circumgalactic medium: bridging theory and observations

Roughly half of all the baryons in a galaxy like the Milky Way reside in the circumgalactic medium, or CGM — an enormous, diffuse cloud of gas that is outside of the disk of the galaxy, but gravitationally bound to the galaxy. There is a great deal of evidence that a galaxy's CGM interacts strongly with its stars and interstellar medium, and that this interaction is responsible for regulating many of the bulk properties of the galaxy. The development of a deep understanding of the physical mechanisms that control this system is only now occurring, facilitated by both a variety of observations and theoretical advances. In this talk, I will focus on recent theoretical advances in our understanding of the CGM, and how this understanding affects our interpretation of observations.

PHYSICS