



**ASTROPHYSICS
SEMINAR SERIES**

“Planet Formation through Radio Eyes”

**Meredith Hughes
Wesleyan University**

**Monday, March 24, 2014
Refreshments at 3:15pm in CAS 500
Talk begins at 3:30pm in CAS 502**

Abstract:

Circumstellar disks provide the raw material and initial conditions for planet formation. Millimeter-wavelength interferometry is a powerful tool for studying gas and dust in planet-forming regions, and it is undergoing a multiple-order-of-magnitude leap in sophistication with the advent of the ALMA interferometer that is now in the late stages of construction. I will discuss some ways in which millimeter-wavelength interferometry is being used to study the process of planet formation in circumstellar disks, with particular emphasis on the kinematics of turbulence in protoplanetary disks and the degree to which debris disk structure reflects the dynamics of embedded planetary systems.