

**UNDERSTANDING THE EVOLUTION OF
THE MAGELLANIC SYSTEM THROUGH
TIDAL DEBRIS: CHARACTERIZING THE
MAGELLANIC BRIDGE**

Kathleen Barger
Research Assistant
University of Wisconsin-Madison
Tuesday, November 15, 2011
12:30 P.M. NSH 184

Galaxy interactions have greatly disturbed and redistributed the gas in the Magellanic System throughout the halos of the Milky Way and the Magellanic Clouds. In this talk, we will discuss a recent H α emission-line survey of warm-ionized gas in the Magellanic Bridge using the Wisconsin H α Mapper. This census allows us to investigate the density, kinematics, morphology, source of ionization, and fate of this tidal remnant. Determining the properties of tidal debris is key for understanding the evolution of these galaxies and other tidally disturbed systems.

Astrophysics
Seminar

All interested
persons are
cordially
invited to
attend.