



**ASTROPHYSICS  
SEMINAR SERIES**

**Fabian Heitch**

**University of North Carolina at Chapel Hill**

**“Molecular Cloud and Star Formation:  
Why Accretion Matters”**

**Monday, April 7, 2014**

**Refreshments at 3:15pm in CAS 500**

**Talk begins at 3:30pm in CAS 502**

**Abstract:**

"Molecular clouds are filamentary" - with this statement one certainly cannot go wrong, especially given the recent- abundant - observational evidence for filamentary molecular cloud structure. While filament formation, structure, and fragmentation has been explored abundantly, the role of the ambient gas reservoir on a filament's evolution is less clear. I will discuss observational and theoretical attempts to quantify the role of accretion for the evolution of filamentary molecular clouds.