

# Observational ISM and Star Formation



This Class (Lecture 11):

Brad Rockwell /Brett Hayes

Next Class:

William Kormos /Jana Bilikova

Music: *The Universe Song* – Animaniacs

Astronomy 596 Spring 2007

Feb 22, 2007

# Astro-ph



1. Probing the initial conditions of High Mass Star formation  
-- I. Deuteration and depletion in high mass pre/protocluster clumps  
(T. Pillai, F. Wyrowski, J. Hatchell, A.G. Gibb, M.A. Thompson)
  - UltraCompact HII regions are signposts of high mass star formation.
  - Study of deuteration and depletion toward pre/protocluster massive clumps
  - 65% of the observed sources have strong NH<sub>2</sub>D emission and more than 50% of the sources exhibit a high degree of deuteration.
  - But no correlation with CO depletion

<http://arxiv.org/abs/astro-ph/0702548>

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# Talks



Astro Colloquium: Dust evolution in young disks and the first stages of planet formation

Nuria Calvet, *University of Michigan*

Comments?

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# Outline



- Mid-class discussion

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# Missing?



- Rotation
- Non-isothermality
- Magnetic fields