

# Colloquium Notice

**Andrew Baker**

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*Molecular gas in high-redshift galaxies*

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Fully understanding the evolutionary state of a galaxy requires that we characterize its gas reservoir, of which the molecular component represents the mass directly available for star formation. I will discuss radio observations of molecular gas in two populations of star-forming galaxies at high redshift (selected based on their rest-frame ultraviolet and far-infrared emission) and what we can learn from them. I will highlight recent work with the "Zspectrometer" (a new, ultrawide bandwidth spectrometer for the 100m Green Bank Telescope) and prospects for future work with

ALMA (Atacama Large Millimeter/submillimeter Array).  
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Monday

**May 11, 2009**

Starts at 12:15 PM

Coffee at 12:00 PM

Physics Conference Room, SB B326