UCDAVIS PHYSICS

Department of Physics
University of California
One Shields Avenue
Davis, CA 95616

530-752-1500

Cosmology Seminar

Dr Matt Richter
UC Davis

Title: mid-infrared spectroscopy of protoplanetary disk gas.

Abstract: While over 250 extrasolar planets are currently known, their formation process is still quite uncertain. Most of the information regarding protoplanetary disks does not come from the radii where planets are expected to form. Furthermore, most of the information available traces the dust in the disk, not the gas that makes up the bulk of the mass. High resolution spectroscopy in the mid-infrared provides a method for studying the gas. With this information, we can address fundamental questions such as disk temperature as a function of radius, the formation timescale for gas giant planets, and the chemical evolution of the disk material from which planets form.

Thursday, 12:10 - 1:30PM - Room 416 PHY/GEO