



Cleveland Astronomical Society

www.clevelandastronomicalsociety.org

Thursday, May 1, 2008 Meeting Announcement

6:15—7:00 p.m. – Get acquainted and snacks

7:45—8:00 p.m. – Short Business Meeting

7:00—7:45 p.m. – Buffet Dinner (Reservations Required)

8:00—9:00 p.m. – Featured Speaker (Free to public)

Leonard Krieger CanalWay Center

4524 East 49th Street (turn onto Whittlesey Way to reach Center), Cuyahoga Heights (216-206-1000)

Dr. Kyler Kuehn

Center for Cosmology and AstroParticle Physics
The Ohio State University

Astronomy without Photons: The Search for Neutrinos with AMANDA and IceCube

Since 1997, the Antarctic Muon and Neutrino Detector Array (AMANDA) has been searching the heavens for high energy neutrinos produced by various astrophysical sources. Because of the unique properties of neutrinos, they can provide information that is inaccessible with the techniques of "traditional" photon astronomy. I will describe the method for detecting this elusive particle, and highlight results from the last decade of observations with AMANDA. I will also give the current status of the upgrade to the AMANDA detector, named IceCube, which will ultimately be more than 10 times more sensitive to any neutrino signal.

High School Teachers interested in bringing two students, as our guests, please contact Bob Sledz, President, at 440-333-7827 or sledzbob@yahoo.com by the Friday prior to the scheduled meeting date.