

# Undergraduate Physics Research

## Symposium

March 31, 2007

NTelos Room (ISAT)

**8:45 am: The Determination of Relative Concentrations of Hydrogen Isotopes and Molecular Hydrogen Spin Isomers**

**Author:** Laurence A Lewis

**9:00 am: Software Development for the JMU MINERvA Photomultiplier Tube Alignment Stand**

**Author:** Erik van der Goetz

**9:15 am: Calculation of the Solid Angle of a Nuclear Detector Using the Monte Carlo Method**

**Author:** Sean O'Brien

**9:30 am: Introducing the National Instruments PXI - 1042Q**

**Author:** Jamie Hayhurst

**9:45 am: Characterization of Fibers to Optimize Design of CLAS Detector Pre-shower Calorimeter**

**Author:** Bonnie Ludka

**10:00 am: The Dynamics of a Non-Idealized Double Pendulum**

**Author:** Daniel Kelly

**10:15-10:30 am: Coffee Break**

**10:30 am: Granular Avalanches in a Rotating Drum**

**Author:** Dan Amon

**10:45 am: Imposed Vibration in Sheared Granular Systems**

**Author:** Eric P. Hoppmann

**11:00 am:**

**Authors:** Travis Kelley, Mary Wilkins,

**11:30 am: Dr. Glen Langston (National Radio Astronomy Observatory)**