

Physics Research Experiments for Undergraduates

The College of William and Mary

Summer 2007

Nathan Belcher, William and Mary, (Mentor: I. Novikova),
A Laser, a Transition and a Counter

Andrea Chaney, U. W. Ga., (Mentor: G. Luepke),
Magneto-Optical Imaging of Type II Superconductors

Ryan Cress, Moravian, (Mentor: T. Averett),
Working Towards a Precision Measurement of K_0

Brian DeSalvo, William and Mary, (Mentor: T. Averett),
Working Towards a Precision Measurement of K_0

Eric Dieckman, Truman St. University, (Mentor: W. Cooke),
Acoustic Ion Desorption

Joseph Goldfrank, William and Mary, (Mentor: I. Novikova),
Optical Filtering

Ian Howley, William and Mary, (Mentor: J. Nelson)
MINERvA and Test Beam Prototyping

George Hall, Elon, (Mentor: R. Wincheski),
Flaw Detection Through Nondestructive Means in Flex Hoses

Christopher Osborn, U. Rochester, (Mentor G. Luepke),
Exchanged Biased Systems and the Magneto-Optical Kerr Effect

Amanda Purcell, American University, (Mentor: R. Wincheski),
Magnetic and Electric Field Effects on Carbon Nanotubes

Benjamin Rislow, University of Minnesota, Mo., (Mentor: M. Sher),
The Effects of Primordial Black Holes

Kevin Sapp, William and Mary, (Mentor: J. Nelson),
MINERvA Neutrino Oscillation Experiment: Detector Construction, Simulation, and Testing

Mannix Shinn, Hampshire, (Mentor: W. Kossler),
Fitting Vortex Pinning Data from the Type-II High-Temperature Superconductor YBCO

Jonathon Sutton, William and Mary, (Mentor: R. Welsh),
Detector Improvement for the Imaging of MMTV Mice

Jason Wittenbach, Notre Dame, (Mentor E. Tracy),
An Application of Computational Non-Linear

Amir Yazdi, William and Mary, (Mentor: R. Welsh),
Detector Improvement for the Imaging of MMTV Mice