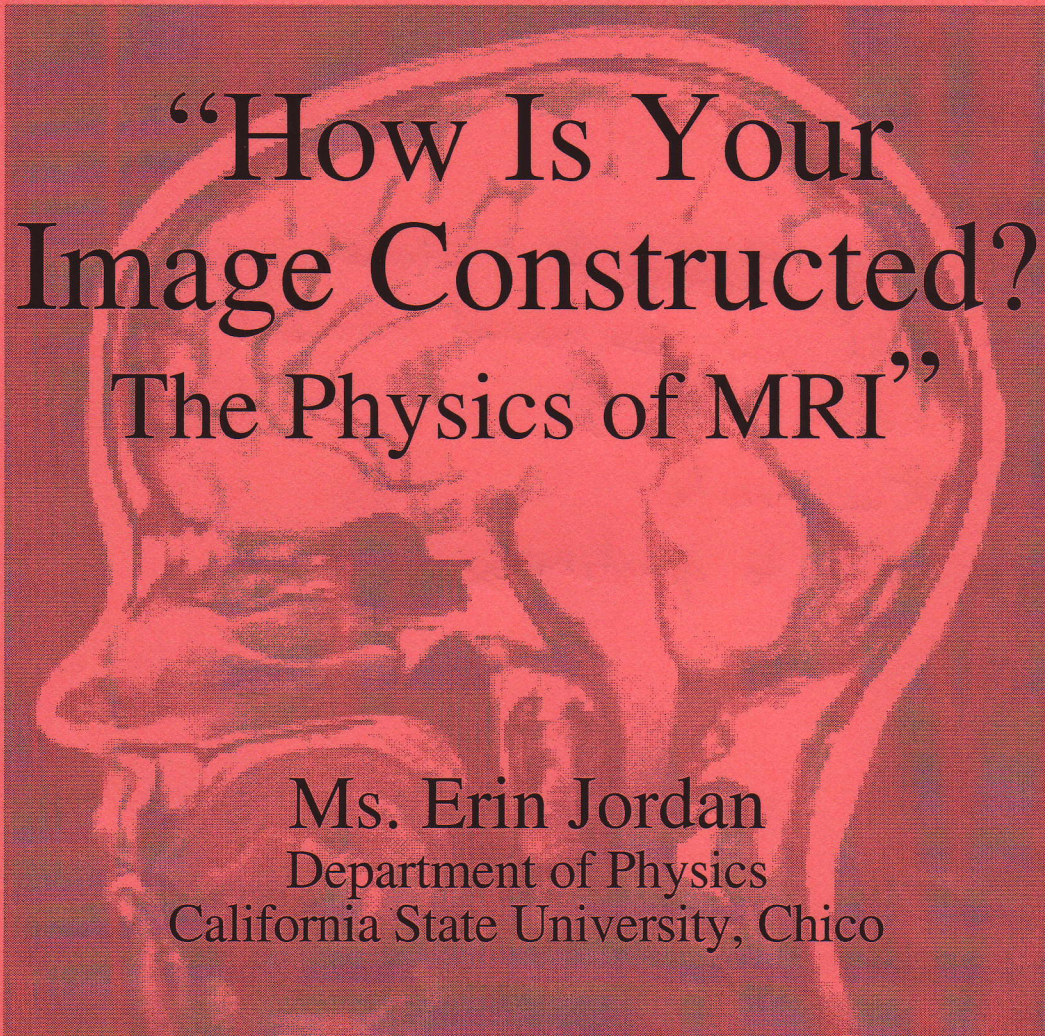


Physics Department Seminar

Friday May 2nd, 2003

11:00am in PhSc 105



“How Is Your Image Constructed? The Physics of MRI”

Ms. Erin Jordan
Department of Physics
California State University, Chico

Abstract:

A half of century after Wilhelm Roentgen viewed the first ever non-invasive image of human anatomy (the bones in his hand), Nuclear Magnetic Resonance was observed in solids. It was this observation that led physicists and physicians to realize a method to construct better (and safer) images of the human anatomy. From detection of cancers to studying cognition, Magnetic Resonance Imaging has changed the way we look at our bodies. I will describe how these images are constructed in practice by first discussing basic principles of NMR.