

UNIVERSITY OF NOTRE DAME
DEPARTMENT OF PHYSICS

NUCLEAR SEMINAR

Monday, April 23

Nuclear astrophysics with ANASEN

Prof. Jeffrey Blackmon

Louisiana State University

The Array for Nuclear Astrophysics and Structure with Exotic Nuclei (ANASEN) is an active gas target/detector designed for efficient measurements of reaction excitation functions using radioactive ion beams. The development of ANASEN and recent measurements performed using in-flight radioactive ion beams from the RESOLUT facility at the Fox Superconducting Accelerator Laboratory at Florida State University will be presented. Measurements include studies of ${}^7\text{Be}+d$ reactions that are important for understanding the production of lithium in the Big Bang and studies of (α,p) reactions that are important for Type I X-ray bursts. Future plans for ANASEN will also be discussed, including a proposed campaign of measurements at TRIUMF ISAC and technical developments that include a new silicon-strip detector array and new heavy ion detection capabilities.

4 pm – 5 pm
Nuclear Science
Laboratory
124 Nieuwland
Science Hall

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All interested  
persons are  
cordially invited  
to attend

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Refreshments will be
served prior to the
seminar in room 124