

UNIVERSITY OF NOTRE DAME
DEPARTMENT OF PHYSICS

NUCLEAR SEMINAR

Monday, February 22

Experimental study of level density, gamma-strength and optical potentials for reaction cross section calculations

Dr. Alexander Voinov
Ohio University

Accurate knowledge of nuclear structure quantities such as level densities, gamma-strength and optical potentials is crucial for predicting reaction cross sections. Current knowledge of these quantities is based on limited experimental information. It results in large uncertainties in reaction cross section and reaction rate calculations needed in different areas of basic physics and applications including r- and s- processes in astrophysics.

Current activity and progress in experimental studies of these nuclear structure quantities will be discussed and experimental results will be presented.

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