

UNIVERSITY OF NOTRE DAME
DEPARTMENT OF PHYSICS

NUCLEAR SEMINAR

Monday, January 30

Living on the edge of stability, challenges to nuclear theory in the FRIB era

Prof. Morten Hjorth-Jensen
University of Oslo, Norway & Michigan State University

A first-principles description of nuclear systems along the drip lines (or nuclear systems in general) presents a substantial theoretical and computational challenge. In this talk I will try to present a possible nuclear theory roadmap, some of the key theoretical approaches, as well as selected results with a focus on long isotopic chains and infinite nuclear matter. I will try to give a critical view on where we are now as well as attempt at presenting possible new approaches to the nuclear many-body problem.

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