

# CENTRE D'ETUDES NUCLÉAIRES DE BORDEAUX-GRADIGNAN

**Mardi 10 Décembre 2013**

**à**

**15H00**

*Un café sera servi à partir de 14h45*

**Morten HJORTH-JENSEN**

Department of Physics, University of Oslo, Norway

## **Living on the edge of stability, the limits of the nuclear landscape**

A first-principles description of nuclear systems along the drip lines represents a substantial theoretical and computational challenge. In this talk, I would like to discuss various aspects of the nuclear theory road map, how these link with present and planned experimental facilities, and present selected results with a focus on long isotopic chains and infinite nuclear matter calculations. The role of three-nucleon forces and correlations arising a coupling to the particle continuum will also be elucidated.

**Salle des Séminaires du CENBG**

*Le Haut Vigneau - BP 120 - F-33175 Gradignan Cedex*