

**CENTRE D'ETUDES NUCLÉAIRES DE
BORDEAUX-GRADIGNAN**

Lundi 11 Janvier 2016

à

11H

Un café sera servi à partir de 10h45

Andrey M. SHIROKOV

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Ab initio studies of light nuclei

I shall discuss our ab initio studies of light nuclei within the No-core Shell Model. A very important ingredient of such theoretical investigations is the inter-nucleon interaction. We have developed the J-matrix inverse scattering potentials (JISP) which provide an accurate description of NN scattering data and binding energies of light nuclei without the use of three-nucleon forces.

I shall discuss the fit of JISP to the binding energies of light nuclei and the results obtained with the JISP16 version of this NN interaction as well as further development of this approach.

Salle des Séminaires du CENBG

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