



**Old Dominion University
Department of Physics**

Special Colloquium

Thursday, June 12, 2014

"Phase-Space Structure of the Nucleon"

**Dr. Cédric Lorcé
University of Liège (Belgium)**

Scattering electrons with nucleons (i.e. protons and neutrons) taught us that the latter are made up of quarks and gluons. The distribution of these constituents in position and momentum space is encoded in so-called parton distributions which can be extracted from various scattering experiments, like those conducted in Jefferson Laboratory. We present a short introduction to these distributions and explain how they can be used to unravel the spin structure of the nucleons.

Presentation: **OCNPS 200 @ 11:30 am**
Refreshments: **OCNPS Atrium @ 11:00 am**

All interested persons are cordially invited to attend.