



ID de Contribution: 49

Type: **Non spécifié**

## Experimental evaluation of the nuclear neutron-proton contact

*jeudi 16 octobre 2014 15:00 (40 minutes)*

The nuclear neutron-proton contact is introduced, generalizing Tan's work, and evaluated from medium energy nuclear photodisintegration experiments. To this end we reformulate the quasi-deuteron model of nuclear photodisintegration and establish the bridge between the Levinger constant and the contact. Using experimental evaluations of Levinger's constant we extract the value of the neutron-proton contact in finite nuclei and in symmetric nuclear matter. Assuming isospin symmetry we propose to evaluate the neutron-neutron contact through measurement of photonuclear spin correlated neutron-proton pairs.

**Auteur principal:** Prof. BARNEA, Nir (The Hebrew University of Jerusalem)

**Orateur:** Prof. BARNEA, Nir (The Hebrew University of Jerusalem)

**Classification de Session:** Scattering and Nuclear Matter