

## **Toward Construction of the Unified Lepton-Nucleus Interaction Model from a Few Hundred MeV to GeV Region**

*Friday, 12 September 2014 18:00 (1h 30m)*

An accurate understanding of the neutrino nucleus reactions is of great importance owing to the increasing precision of the neutrino oscillation experiments. The purpose of our study is to develop a reaction model for the lepton nucleus reaction from a few hundred MeV to a few GeV. We report on our analysis of the lepton nucleus reaction with the updated resonance model and the nuclear PDF in the DIS region.

**Primary author:** Dr NAKAMURA, Satoshi (Yukawa Institute, Kyoto University)

**Co-authors:** Dr KAMANO, Hiroyuki (RCNP, Osaka University); Prof. SAITO, Koichi (Tokyo University of Science); Prof. SAKUDA, Makoto (Okayama University); Dr HIRAI, Masanori (Tokyo University of Science); Prof. KUMANO, Shunzo (KEK); Prof. SATO, Toru (Osaka University); Prof. HAYATO, Yoshinari (ICRR, Tokyo University)

**Presenter:** Dr NAKAMURA, Satoshi (Yukawa Institute, Kyoto University)

**Session Classification:** Happy hour with posters

**Track Classification:** Happy hour with posters