

Report on the International Workshop on
Neutrino Nuclear Responses for Neutrino Studies in Nuclei (NNR14)

Date: November 5-6, 2014
Place: Research Center for Nuclear Physics, Osaka University
Participants: 40 (8 from abroad, the others from Japan)
Budget: 192,120 Yen for supporting the travel/staying fee of 5 participants
Organizers: H. Akimune, H. Ejiri*, D. Frekers, Y. Fujita, H. Nakada, K. Ogata, T. Ohtsuka,
M. Sakuda, A. Sato, T. Shima, J. Suhonen, K. Sumiyoshi, A. Tamii*, T. Uesaka,
P. von Neumann-Cosel, R.G.T. Zegers, K. Zuber
* Co-chairs
Web site: <http://www.rcnp.osaka-u.ac.jp/indico/event/671/>

The international workshop was held at RCNP in Nov. 5-6th, 2014 with the support of RCNP. The workshop was dedicated for the study of neutrino nuclear responses that are relevant to double beta decays and astro-neutrino nuclear processes. Intense discussions were made on the wide fields of neutrino-less double beta decays, supernova dynamics, astrophysical neutrino detections, nuclear matrix elements and their quenching phenomena, unique and selective probes of (${}^6\text{Li}, {}^6\text{Li}^*$), (${}^{16}\text{O}, {}^{16}\text{F}$), double charge exchange, muon-capture reactions, electron scattering and direct neutrino reactions as well as recent theoretical studies on astrophysical processes, ab-initio few-body calculations, shell-model, and mean-field calculations.

The workshop was really successful having 8 participants from abroad with a lot of discussions on the recent progresses and new projects that reminded us the importance of the field. We appreciate the valuable support from RCNP, not only for the budget but also for the smooth organization, that was indispensable for the success of the workshop.