

Witek Nazarewicz

JUSTIPEN Exit Report: December 9-15, 2007

I spent the entire time of my visit at the Japan-U.S. Theory Institute for Physics with Exotic Nuclei. During this visit I had many interactions with Japanese colleagues working in the areas of nuclear structure and nuclear reactions.

On Monday, Dec. 10, I gave a seminar entitled "Nuclear Structure'07: Exciting, Broad, Relevant", and on Dec. 12, another one on "Shell Structure of Exotic Nuclei." Both seminars were well attended and were followed by excellent discussions (and a party). On Monday evening, the traveler met with the Japanese Board of JUSTIPEN. The minutes of this meeting can be found on the JUSTIPEN website. The main topics discussed were: supercomputing, future US-Japan collaboration in the area of gamma-ray spectroscopy, joint JUSTIPEN-UNEDF meeting in August'08, Japan-US exchange program involving experimentalists, and organizational changes.

Tuesday and Wednesday were devoted to working discussions with Kenichi Matsuyanagi and Nicolas Michel (Kyoto), Hiro Sagawa (Aizu), Masayuki Matsuo (Niigata), Takashi Nakatsukasa and Masayuki Yamagami (RIKEN). The main research activities of the participating groups were outlined, with a particular focus on the density functional theory, deformed QRPA, Gamow shell model and three-body cluster models, exotic shapes, TDHF, and description of pairing correlations in neutron-rich nuclei (including isoscalar and isovector density dependence).

On Thursday and Friday, the traveler interacted with the local scientists from RIKEN, Nihon, and Tokyo, including Tohru Motobayashi, Masayasu Ishihara, Takaharu Otsuka, Tomohiro Uesaka, Heiko Scheit and Toshio Suzuki. There was a nice ceremony during which two decorative copper wall plates (one for JUSTIPEN and another one for the Todai-RIKEN Joint International Program for Nuclear Physics, TORIJIN) were placed on the wall adjacent to the JUSTIPEN office.

The program of the January'08 LACM-EFES-JUSTIPEN Workshop at Oak Ridge was discussed with Otsuka, Nakatsukasa, and Uesaka.

As usual, the local organization was flawless, with Naoyuki Itagaki taking excellent care of details of the local stay. The accommodation in the International Guest House was convenient and pleasant. All in all, this was a very productive trip.