

## **JUSTIPEN Trip Report for Betty Tsang, Michigan State University**

### **12/07/08-12/08/08 : University of Aizu; Hiroyuki Sagawa**

I gave a seminar on “Neutron Spectroscopic factors from transfer reactions” at the University of Aizu. Sagawa-san and I had discussions on possible explanations on excited state spectroscopic factors near closed shell nucleus of  $^{40}\text{Ca}$ .

### **12/09/08-12/14/08 : Tohoku University; Akira Ono**

Akira Ono's group and I continue our collaboration on using the Asymmetric Molecular Dynamics Models to describe heavy ion data. In addition, we also worked on the mini workshop to be held at RIKEN the following week.

### **12/15/08-12/22/08 : RIKEN; Hiroyoshi Sakurai**

Attended the RIBF Mini-workshop on “Nuclear Collisions and Nuclear Matter”, December 16-17, 2008. I gave the opening talk on “Learning about the equation of state of asymmetric nuclear matter with heavy-ion collisions”. There were spirited and productive discussions on US-Japan collaborative project in using a Time-Projection-Chamber in the SUMARAI magnetic spectrometer to study the symmetry energy term in the nuclear equation of State.

On Thursday, 12/19/08, I gave a RIKEN seminar on spectroscopic factors and discussed with Otsuka and his group about symmetry energy.

During my stay in RIKEN, I discussed with Sakurai, Ishihara, Motobayashi, Otsuka and others about the proposed US-Japan collaborative project to study the density dependence of the nuclear symmetry energy. As a result, an NSF Partnership on International Research and Education proposal are being developed and will be submitted to NSF.

### **General Observation:**

During my visit in Japan, I also met and discussed nuclear science with many non-Japanese colleagues such as Carlo Barbieri, Hans-Josef Schulz, Mattias Lantz and others. Justipen visitors enhance the international atmosphere in RIKEN and help to spark more stimulating discussions between Japanese and non-Japanese scientists. I benefited a lot from the visit and would very much like to thank Prof. Itagaki for his hospitality and help extended to me before and during the visit.