

Calvin Johnson, San Diego State University – Exit Report

I attended the Hokudai-TORIJIN-JUSTIPEN-EFES workshop "Perspectives in Resonances and Continua on Nuclei" & JUSTIPEN-EFES-Hokudai-UNEDF meeting 21-25 July 2008.

There were many excellent talks each of the five days of the conference, covering a broad range of topics on computational aspects of nuclear structure and exotic nuclei. I found the presentations by Prof. Aoyama, Prof. Nakada, and Prof. Fujii particularly enlightening. After Prof. Fujii's talk, I spent some time talking with him about Okubo-Lee-Suzuki effective interaction theory. Since then he has shared with me his codes for computing effective interactions for nuclear shell model calculations and I have been using them in some calculations; we are still working towards a publication.

On 24 July I gave a presentation on "Cold fermion gases as a test of many-body theories," and received many useful questions and feedback afterwards, in particular comments from Prof. Horoi of Central Michigan University and Prof. Barrett from Arizona.

In addition to the fascinating science presentations, I appreciate the gracious hospitality of the host physicists and enjoyed my second visit to Japan.