

EXIT REPORT ON TRAVEL SUPPORTED BY JUSTIPEN

Period: July 16 – August 3, 2008

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TRAVEL:

I left College Station on July 16 and arrived to RIKEN, in Wako-Shi, Japan, on July 17, 2008. On July 20 I traveled to Onuma International Seminar House to participate and present talks in the Hokudai-TORIJIN-JUSTIPEN-EFES Workshop on “Perspectives in Resonances and Continua on Nuclei” and in the JUSTIPEN-EFES-Hokudai-UNIDEF Meeting. I returned to RIKEN on July 27. On August 3, 2008 I left RIKEN and returned College Station.

AT RIKEN:

My main activity was in the area of properties of giant resonances in neutron rich and deformed nuclei. I discussed, with Professor Nakatsukasa and his colleagues, the possibility of carrying out self-consistent calculations of the response functions of the isoscalar giant dipole resonances in deformed nuclei, within an unrestricted 3D space. We hope to first be able to calculate the inverse energy weighted sum rule (IEWSR).

AT ONUMA INTERNATIONAL SEMINAR HOUSE:

In the Hokudai-TORIJIN-JUSTIPEN-EFES Workshop on “Perspectives in Resonances and Continua on Nuclei” I gave a talk entitled: “The nature of the low energy isovector dipole excitations in neutron rich nuclei”

In the JUSTIPEN-EFES-Hokudai-UNIDEF Meeting I gave a talk entitled: “A modern nuclear energy density functional”

The relaxed and pleasant atmosphere during the Workshop and the Meeting allowed for many opportunities for interesting discussions. In particular, I had valuable discussions on (i) the Shell model, with Professors B. R. Barrett and J. Vary and on (ii) the description of resonances in the continuum with the Green’s function approach and the Complex Scaling approach, with Professor K. Kato.