International Symposium on Nuclear Electro-Weak Spectroscopy (NEWS 99)
for
-Symmetries and Electro-Weak Nuclear processes-

The international symposium on Nuclear Electro-Weak Spectroscopy (NEWS 99) for Symmetries and Electro-Weak Nuclear processes was held in Icho-Kaikan of Osaka University from March 9 to 12 of 1999. RCNP was the host institute of this symposium.

Nuclei are systems of nucleons in good quantum states. Thus, they are used as excellent microlaboratories for studying elementary particles and fundamental interactions. Symmetries and electro-weak processes are studied by investigating electro-weak nuclear-processes in nuclear microlaboratories. High precision studies by nuclear electro-weak spectroscopies are very useful for symmetry studies

RCNP (Research Center for Nuclear Physics) Osaka Univ. is a modern laboratory complex. It consists of the K=0.4 GeV Ring Cyclotron laboratory for nucleon-meson nuclear physics, the Oto Cosmo Observatory (underground laboratory) for lepton (neutrinos, dark matters) nuclear physics with high sensitive ELEGANT detectors, and of the Laser Electron Photon laboratory at SPring-8 with multi-GeV polarized photons for quark nuclear physics. Symmetries and electro-weak nuclear-processes are key subjects. These directions of RCNP had been promoted strongly by Prof. Hiro Ejiri, the RCNP director, since 1993. Thus, we organized this symposium in honor of Prof. Hiro Ejiri, who terminated the third term of the directorship of RCNP and the Professorship of Osaka University in March 31st, 1999.

Since the conference on quark lepton nuclear physics was held in May 1997 at RCNP. The present symposium puts emphasis on symmetries and electro-weak processes.

The subjects discussed were:

1). Symmetries in Electro-Weak Interactions in Nuclei

2). Neutrinos and Symmetries in Nuclei

3). Dynamical Symmetry Breaking and QCD Physics

4). Quarks and Hadrons by Electro Weak Probes

5). Symmetries in Flavor Nuclear Particle Physics

6). Symmetries in Nuclear Structures by Electromagnetic Spectroscopy

7). Astro Nuclear Physics by Electro Weak Nuclear Processes

8). Related Problems

We had about 150 participants from various countries. The proceedings of this conference will be published from World Scientific. In addition, utilizing this occasion, we had a workshop on the double beta decay and the dark matter after NEWS99 at RCNP and the Oto Cosmo Laboratory. (Mini Workshop on "Neutrinos and Nuclear Rare Processes in Astroparticle Physics" (OTO99), March 13-14, 1999)

Host Institute: Research Center for Nuclear Physics (RCNP), Osaka University

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