

**Preamble of the Second Joint Meeting of the Nuclear Physicists
of the American Physical Society and
the Physical Society of Japan
September 18–22, 2005
Ritz-Carlton Hotel, Kapalua
*Maui, Hawaii***

GENERAL INFORMATION

The Fall Meeting will reprise the highly successful first joint meeting of the Division of Nuclear Physics (DNP) of the American Physical Society (APS) and the nuclear physicists of the Japanese Physical Society (JPS). That historic bilateral meeting was a resounding success, drawing more than 800 participants from Japan and North America. This year's meeting will be held at the Ritz-Carlton Hotel in the Kapalua Resort on the island of Maui on the dates of 18–22 September 2005.

It is again our hope that Hawaii 2005 (HAW05) will serve as a meeting ground to foster cooperation, collaboration, and the exchange of ideas among nuclear scientists from Japan, the U.S. and other Pacific Rim countries. Moreover, it will provide an unusual opportunity for students from Japan and the U.S. to meet, interact, and discuss their visions of careers in nuclear physics. Finally, it is our hope that Hawaii 2005 will be every bit as successful during this World Year of Physics 2005 as was Hawaii 2001.

All conference functions and sessions will be held at the Ritz-Carlton Hotel, located in the Kapalua Resort community on the sparkling Pacific shores of Maui's northwest coast, 12 miles north of the picturesque town of Lahaina. The elegant Ritz-Carlton Hotel sits on 50+ acres of a former pineapple plantation now forested with Cook Island pine trees and surrounded by ocean, golf courses, and luxury condominiums. The hotel offers multilingual guest relations staff, five restaurants, a multiple pool system, Hawaiian cultural programs, and more. A block of 450 rooms has been reserved.

The Kapalua resort is located about an hour's drive from the Maui airport in Kahului along the Honoapiilani Highway No. 30. Those flying through Honolulu can take advantage of commuter flights to the West Maui Airport, which is serviced by the complimentary Kapalua Shuttle (phone: 669-3177) that runs throughout the resort and to the Ritz-Carlton Hotel.

The name Kapalua means "twin arms embracing the sea," referring to the famous Kapalua Bay. Kapalua is more than a beautiful location. The famous symbols, the butterfly logo and the stately Cook Island pines, are a unique part of the heritage. Within the butterfly logo is a pineapple, referring to the agricultural roots, a working pineapple plantation which even today supplies pineapples locally and to the mainland. The Cook Island pines which line the roads remind one of the distinct nature of this part of Maui. Kapalua is set amid a 23,000 acre pineapple plantation, surrounded by natural sanctuaries, rain forests, and some of the most splendid beaches in the world.

HAW05 will be a five-day meeting. Workshops will be held on 18 September, preceding the plenary session and traditional scientific sessions scheduled for 19–22 September. The Workshops will be followed by a Nishina Foundation Commemorative session, a welcome reception in the Ritz-Carlton Pavilion, and a Be-the-Memorial session.

The plenary session on Monday afternoon will open the main meeting and will highlight the nuclear physics of Japan and the U.S. Scientific sessions will be held during the afternoon and evening on Monday and Tuesday. On Wednesday there will be morning sessions followed in the afternoon by a poster session and Town Meetings, capped off in the evening by an Aloha Ho'olaule'a in lieu of a banquet. On the last day of the meeting, sessions are scheduled for the morning and afternoon to benefit those with a late Thursday evening or early Friday morning flight.

As was the case for Hawaii 2001, a typical scientific session will see a single invited paper session running in parallel with multiple mini-symposia and contributed paper sessions. Mini-symposia involve one lead (invited) talk followed by contributed papers all on the same topic. The mini-symposia are viewed as ideal sessions to integrate the JPS and DNP communities around topics of mutual interest. All talk slots are multiples of 15 minutes: contributed papers will consist of a 12-

minute talk plus 3 minutes for questions and discussion; lead talks in mini-symposia will be 25 minutes plus 5 minutes for questions and discussion; talks in invited sessions will be 35 minutes plus 10 minutes for questions and discussion. All presenters are urged to speak slowly and clearly and to include important points in the images projected on the screen.

PLENARY SESSION

The formal meeting activities begin with a plenary session on Monday afternoon, September 19. Distinguished speakers for the U.S. and Japan will share their vision for important nuclear physics in the present and the future. The Plenary speakers are Michael Turner, Tohru Motobayashi, Hisashi Horiuchi, and Donald Geesaman. The plenary session will be in the Ritz-Carlton Ballroom.

SPECIAL SESSIONS

Sunday Evening

Nishina Foundation Commemorative Session

A special session commemorating the Nishina Foundation contributions to the field of nuclear physics will feature a talk by Toshimitsu Yamazaki on Yoshio Nishina and the dawn of nuclear and particle physics in Japan. This will follow the workshops, on Sunday evening, and be held in the Ritz-Carlton Ballroom.

Celebration of Bethe's Life

A memorial session in celebration of the life of one of the 20th century's greatest nuclear physicists, Hans Bethe, begins following the welcome reception. The session is chaired by John Schiffer, who will make some extended remarks on Bethe's contributions to the early theory of nuclear physics. Gerry Brown and Katsuhiko Sato will recall their collaborative experience with Bethe.

Tuesday Morning

JPS Award Session

A JPS award session to honor distinguished young research scientists will be held in the Plantation Ballroom from 10:30 until 12:00. Talks will be given by Tatsuya Chujo, Vanderbilt University, by Nobuaki

Imai, Institute of Particle and Nuclear Study, KEK, and by Ken Suzuki, Technische Universität, München. The session will be chaired by Hideyuki Sakai, University of Tokyo.

Wednesday Afternoon

CEU Poster Session

A CEU student poster session has been organized by Warren Rogers starting at 13:00 on Wednesday as part of the Conference Experience for Undergraduates.

General Poster Session

Posters other than those by CEU presenters will be organized into a poster session parallel to the CEU function starting at 13:00 on Wednesday afternoon.

DNP Town Meeting

A DNP Town Meeting will be held in Salons 3 and 4 of the Ritz-Carlton Ballroom, 15:00–17:00.

JPS Nuclear Physics Forum Meeting (Kakudan Soukai)

A JPS Nuclear Physics Forum Meeting (Kakudan Soukai) of Japanese experimentalists will be held in Plantation rooms 1 and 2, 15:00–17:00.

REGISTRATION

Registration will take place in the Ritz-Carlton lobby level prefunction space—to the right of the main entry into the hotel and just outside Salon 1 and Salon 2. Registration will begin on Saturday morning. The registration desk will be open during most of the meeting for registration, information, and other assistance. Both Japanese and English language staff will be available to assist with the registration desk functions. After the early registration deadline of 10 August, the late registration fee is \$250 for members, \$125 for students/unemployed, and \$450 for nonmembers. On-site registration fees are \$300, \$150, and \$500, respectively.

On-site registration hours will be:

Saturday	8:00 to 17:00
Sunday	8:00 to 21:00
Monday	9:00 to 20:00
Tuesday	12:00 to 20:00
Wednesday	8:00 to 17:00
Thursday	8:00 to 15:00

CONFERENCE EXPERIENCE FOR UNDERGRADUATES (CEU)

Warren Rogers has organized a program specific to the nuclear physics undergraduates participating in Hawaii 2005. The goal of the CEU is to provide a “capstone” conference experience for undergraduate students who have conducted research in nuclear physics, by providing them the opportunity to present their research to the larger professional community and to one another. Additionally, it enables the students to converse with faculty and senior scientists from graduate institutions about graduate school opportunities.

Special CEU nuclear physics seminars will be presented at 13:15 on Monday and Tuesday, just prior to the afternoon sessions. A CEU student poster session will be held at 13:00–15:00 on Wednesday.

CEU 2005 thanks the following organizations for support: the Division of Nuclear Physics of the American Physical Society, the Physical Society of Japan, the National Science Foundation, and the Department of Energy through the following Laboratories: Argonne National Laboratory, Brookhaven National Laboratory, Lawrence Berkeley National Laboratory, Los Alamos National Laboratory, Oak Ridge National Laboratory, and Thomas Jefferson National Accelerator Facility.

SPECIAL FUNCTIONS

Saturday Morning/Afternoon

Hawaii 2005 World Year of Physics Celebration

As part of the worldwide celebration of the World Year of Physics 2005 (WYP05), two public events will be held in Kahului on the day before the Workshops, organized by the DNP Education Committee. Peggy McMahan will lead these events.

A Physics Fun Day Open House will be held at the Queen Ka’ahumahu Shopping Center in Kahului from 11:00 to 15:30. The DNP Education Committee has encouraged university departments and national laboratories to plan a presence and sponsor an activity directed towards any grade level from elementary school to adults.

A Physics Olympics, a contest for teams from high school physics classes throughout the Island of Maui, is scheduled from 10:00 to 15:30 on the lawn of the Maui

Community College, across the street from the shopping center.

Saturday Afternoon

Public Lecture

Laurence Krauss, Professor of Astronomy at Case Western Reserve University, will give a public lecture on Einstein, as part of the World Year of Physics 2005 celebration, at 16:00 at the Maui Arts and Cultural Center, “Einstein’s Biggest Blunder: A Cosmic Mystery Story.”

Sunday Evening

Welcome Reception

Immediately following the Nishina Foundation Commemorative session there will be a welcome reception in the hotel Pavilion. The Pavilion is a covered, outdoor banquet area located to the left of the entrance to the Ritz-Carlton Hotel lobby. Light refreshments will be served beginning about 19:00. The reception will close about 20:15, in order to give people time to move to the Bethe Celebration at 20:30.

Monday Morning

DNP/JPS Brunch and Program on the Status of Women and Minorities in Physics

A joint DNP/JPS program and brunch focused upon the status of women and minorities in physics will be held from 10:00 to 11:30 in Plantation room No. 1. All are welcome, but because of seating limitations, those interested in attending should obtain a ticket at the meeting registration desk.

The following organizations are thanked for their generous support of this program: The American Physical Society and the Physical Society of Japan, Argonne National Laboratory, Brookhaven National Laboratory, Lawrence Berkeley National Laboratory, Los Alamos National Laboratory, the Southeastern Universities Research Association, and Women Encouraging Competitive Advancement in Nuclear Science.

Monday Afternoon

Companions Get-Together

A Companions Get-Together with refreshments will be held at 14:00 on Monday, in parallel with the Plenary Session.

Tuesday Morning

User Group Meetings

Time for User Group meetings has been set aside on Tuesday morning in the lower level of the Ritz-Carlton Hotel function space.

Double-Beta Decay and Neutrino Mass Collaboration Meeting

The Double-Beta Decay and Neutrino Mass Collaboration meeting will be held from 9:00–10:30 in Plantation room No. 3.

Tuesday Afternoon

CEU Undergraduate Reception

An undergraduate reception, organized by the Conference Experience for Undergraduates director Warren Rogers will be held at 18:00 in the Hawaiian Medicinal Garden.

Graduate Student Reception

A graduate student reception for all graduate students, hosted by the DNP and JPS, will be held at 18:00 in the Plantation Ballroom Foyer.

Wednesday Afternoon

JPS Hadron Physics Society Meeting

The Hadron Physics Society meeting will be held from 12:45–14:00 in Plantation room No. 1.

Physical Review C and Physical Review Letters Drop-In

The Editors of Physical Review C and Physical Review Letters cordially invite HAW05 participants to join them for conversation and refreshments in the area of the poster sessions on Wednesday afternoon from 13:00 to 15:00. Your questions, suggestions, compliments, and complaints regarding journal issues are welcome.

Wednesday Evening

Aloha Ho'olaule'a

In lieu of a banquet or Luau (as was held at Hawaii 2001), there will be an aloha ho'olaule'a on Wednesday evening at 19:00 near the beach (behind the Beach

House Restaurant). The ticket price includes food stations, entertainment, etc., much like the Welcome Reception at Hawaii 2001.

Thursday Afternoon

RARF/RIBF Users Meeting

A RARF/RIBF Users meeting will be held from 17:30-18:30 in Plantation room No. 3.

PROGRAM DESCRIPTION

Workshops

The meeting will open with eight workshops on Sunday, 18 September. Sessions are scheduled in the morning and afternoon. The organizers of the parallel workshop sessions are:

- WA Nuclear/Hadron Physics at the Jefferson Laboratory and J-PARC
E. Hungerford, O. Hashimoto, J.-C. Peng, and K. Tanaka
- WB Strongly interacting matter probed at RHIC
T. Sugitate and J. Thomas
- WC Spin structure studies at RHIC
N. Saito and J. Thomas
- WD Beyond qq-bar and qqq systems: Pentaquarks and more
T. Nakano and W. Lorenzon
- WE Nuclear states under extreme conditions of binding and isospin asymmetry
T. Motobayashi and R. Casten
- WF Double beta-decay and neutrino masses
T. Kishimoto and K. Lesko
- WG Neutrino Astrophysics
T. Kajino and B. Balantekin
- WH Neutron-rich nuclei in nuclear astrophysics
H. Sagawa and J. Piekarewicz

Invited Sessions

The six invited sessions were organized by members of the Program Committee:

- BA Recent Progress in Nuclear AstroPhysics
S. Kubono and G. Fuller
- CA New results for exotic nuclei in the sd-pfg region
T. Otsuka and E. Ormand

- DA Nucleon Baryon Interactions
T. Kishimoto and R. Milner
- EA Applications of Nuclear Physics
K. Imai and S. Seestrom
- JA Exploration of a New State Dense Matter
Y. Miake and V. Greene
- KA QCD Beyond Three Quarks
M. Oka and C. Keppel

Mini-Symposia

The 16 mini-symposia were organized by a number of DNP and JPS members:

- 14a Low Energy Tests of the Standard Model and Searches for New Physics
E. Korkmaz and T. Kishimoto
- 14b Nuclear Astrophysics
G. Fuller, C. Brune, and S. Kubono
- 14c Chiral & Color Condensates in Hadronic Systems
A. Ohnishi, S. Hirenzaki, T. Hatsuda, and V. Koch
- 14d Pair and Cluster correlations in nuclei
T. Otsuka and E. Ormand
- 14e Structure Changes of Asymmetric Nuclear Systems
T. Otsuka, T. Glasmacher, T. Motobayashi, and H. Sakurai
- 4f Nuclear Moments
K. Asahi, P. Mantica, and N. Stone
- 14g New Aspects of Nuclear Forces—three nucleon force and few-nucleon systems
T. Otsuka, E. Ormand, W. Tornow, and H. Sakai
- 14h Gamma Ray Detectors
M. Riley and S. Kubono
- 14i RHI Jet Quenching
V. Greene, Y. Miake, and T. Hallman
- 14j RHI Recombination
M. Asakawa, V. Greene, Y. Miake, and T. Hallman
- 14k RHI s-QGP
M. Asakawa, V. Greene, Y. Miake, and T. Hallman
- 14l Pentaquarks
M. Oka and W. Lorenzon
- 14m Hypernuclei
J. Millener and T. Kishimoto
- 14n Orbital Motion of Quarks in Hard Scattering Processes
M. Oka, T. Shibata, Y. Koike, and V. Burkert
- 14o Neutrino Mixing and CP Violation: Reactors, Accelerators and Supernovae
H. Gao and M. Oka
- 14p Compton Scattering from Nucleons and Nuclei
H. Gao, M. Oka, and H. Weller

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