The 21st Century COE Program of Tohoku University

COE International Symposium Exploring New Science by Bridging Particle-Matter Hierarchy

March 5 (Fri) - March 7 (Sun), 2004

Multimedia Education and Research Building (Kawauchi-North Campus of Tohoku University)

PROGRAM

March 5 (Friday), 2004

10:00-10:40 A. Suzuki

The 21st Century COE Program: Exploring New Science by Bridging Particle-Matter Hierarchy

10:40-11:00	Coffee Break
	Chairperson: Y.Shibata
11:00-12:10	H. Amann
	Coagulation-Fragmentation Models
12:10-13:30	Lunch
	Chairperson: T. Fujita
13:30-14:00	T. Kawakatsu
	Dynamical Self-Consistent Field Theory for
	Inhomogeneous Dense Polymer Systems
	Bridging between Microscopic Chain Structures and
	Dynamics of Mesoscopic Domains
14:00-14:30	D. D. Sarma
	Semiconducting Nanoparticles: Flexible Properties out
	of Tunable Sizes
14:30-15:00	Y. Murakami
	Orbital Ordering Studied by Resonant X-Ray Scattering
15:00-15:30	T. Takahashi
	Bogoliubov Quasiparticle in High-Tc Superconductors
	Observed by Angle-Resolved Photoemission Spectroscopy
15:30-15:50	Coffee Break
	Chairperson: Y. Nagashima
15:50-16:20	T. Moroi
	Particle Physics, Cosmology, and Supersymmetry
16:20-16:50	T. Buchert
	Cosmological Parameters are `dressed'
	a Key to Bridging the `Dark Energy' Gap ?
16:50-17:20	Y. Suto
	Weighing the Universe; Baryons, Dark Matter and Dark
	Energy

March 6 (Saturday), 2004

Chairperson: H. Kamimura

9:30-10:40 M.S. Dresselhaus Perspectives on Nanoscience 10:40-11:00 Coffee Break Chairperson: M. Tachiki 11:00-12:10 F. Steglich Kaleidoscope of Heavy Electrons: Superconductivity, Magnetism, Quantum Critical Points 12:10-13:30 Lunch Chairperson: N. Kawano 13:30-14:00 M. Kotani Electron Transfer on a Crystal Lattice with and without Magnetic Field 14:00-14:30 T. Hattori Renormalization Group Approach to a Generalization of the Law of Iterated Logarithms for One-Dimensional (Non-Markovian) Stochastic Chains 14:30-15:00 D. Chae On the Multi-string Solutions of the Einstein equations Coupled with the Maxwell-Higgs System 15:00-15:20 Coffee Break Chairperson: Y. Nagai 15:20-15:50 T. Kobayashi Nuclear Physics using RI Beams 15:50-16:20 H. Saio elioseismology and Solar Models 16:20-16:50 J. Shirai KamLAND: Neutrinos from Reactors to the Earth and

the Sun 16:50-17:20 P. Payre The Antares Neutrino Telescope

Banquet 18:00-(6th floor, Multimedia Education and Research Building)

March 7 (Sunday), 2004

Chairperson: J. Nishimura

9:30-10:40 S. Pakvasa Neutrinos:Yesterday, Today and Tomorrow

10:40-11:00 Coffee Break

11:00-12:10 L.S. Cardman

Chairperson: O. Hashimoto

Nuclear Physics - Nature on the Femptometer Scale 12:10-12:20 Closing: Y. Kuramoto