

Joint Meeting of Pacific Region Particle Physics Communities

Tuesday 31 October 2006

Field Theory Motivated Theoretical Developments - Puna (08:00-10:00)

Chair: K. Intriligator

Each talk is allocated 30 minutes, 20 minutes for talk, 5 minutes for questions and 5 minutes for break.

- **Conveners: Dr. INTRILIGATOR, Ken; Dr. SAKAMOTO, Makoto; Dr. IZUMI, Tsutsui**

[Click here to view abstracts and presentation materials for this session.](#)

Time	Title	Presenter
08:00	A Prospect for The Dynamics of Condensation	KAWASHIMA, Kazuhiro
08:30	Restricting profile function of hedgehog Skyrminion	YAMASHITA, Jun
09:00	Charge quantization conditions based on the Atiyah-Singer index theorem	DEGUCHI, Shinichi
0930	Topological Aspects of Gauge Theory on Noncommutative Geometry	AOKI, Hajime

Field Theory Motivated Theoretical Developments - Puna (10:30-12:30)

Chair: S. Odake

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Time	Title	Presenter
10:30	Non-Abelian Vortices of Higher Winding Numbers	ETO, Minoru
11:00	Non-Abelian Duality from Vortex Moduli	YOKOI, Naoto
11:30	On higher derivative terms in the effective action on solitons	FUJIMORI, Toshiaki
12:00	Supersymmetric Domain Walls, Tensorial Central Charges, and The Supercurrent	TER VELDHUIS, Tonnis

Field Theory Motivated Theoretical Developments - Puna (14:00-16:00)

Chair: K. Ishikawa

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Time	Title	Presenter
14:00	Effective Actions on Wall Loops	NAGASHIMA, Takayuki
14:30	Wilsonian RG analysis of nuclear EFT	KUBO, Hirofumi
15:00	Axiomatic Bounds on New Physics	ROTHSTEIN, Ira
15:30	Two Small Numbers, Baryon Number in the Universe and the Cosmological Constant, are interrelated?	MINAMIZAKI, Azusa

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Field Theory Motivated Theoretical Developments - Puna (16:30-18:30)

Chair: N. Sakai

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Time	Title	Presenter
16:30	Dirac-Kaehler Twisted N=4 Super Yang-Mills Theory with Central Charge in Four Dimensions	SAITO, Jun
17:00	Partial Breaking of {N}=2 Supersymmetry and Decoupling Limit of Nambu-Goldstone Fermion in U(1) Gauge Model	FUJIWARA, Kazuhito
17:30	Dynamical SUSY breaking in meta-stable vacua	INTRILIGATOR, Ken
18:00	Scherk-Schwarz twist in 5D conformal SUGRA	SAKAMURA, Yutaka

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Time	Title	Presenter
08:00	Unified Theory of Annihilation-Creation Operators for Solvable ('Discrete') Quantum Mechanics	ODAKE, Satoru
08:30	Quantum boundary conditions and particle bound states	CHEON, Taksu
09:00	Supersymmetry as a part of higher dimensional gauge symmetry	NAGASAWA, Tomoaki
09:30	Selecting Gauge Theories on an Interval by 5D Gauge Transformations	SAKAI, Norisuke

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Field Theory Motivated Theoretical Developments - Puna (10:30-12:30)

Chair: Y. Hosotani

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Time	Title	Presenter
10:30	Quantum Field Theory in AdS5	ICHINOSE, Shoichi
11:00	UV Finite Approach to Quantum Gravity	WARD, Bennie
11:30	Thermal radiation of various gravitational backgrounds	SINGLETON, Douglas
12:00	An effective field theory for spinning Black Holes	PORTO, Rafael