

7th Biennial Conference on Classical and Quantum Relativistic Dynamics of Particles and Fields 2010

(IARD 2010)

Journal of Physics: Conference Series Volume 330

**Hualien, Taiwan
30 May – 1 June 2010**

Editors:

**L. P. Horwitz
Martin C. Land
Da-Shin Lee**

**Bei-Lok Hu
Tepper Gill**

**ISBN: 978-1-61839-353-1
ISSN: 1742-6588**

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2010) by the Institute of Physics
All rights reserved.

Printed by Curran Associates, Inc. (2011)

For permission requests, please contact the Institute of Physics
at the address below.

Institute of Physics
Dirac House, Temple Back
Bristol BS1 6BE UK

Phone: 44 1 17 929 7481
Fax: 44 1 17 920 0979

techtracking@iop.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Quantum Simplicial Dynamics	1
<i>D. Finkelstein</i>	
Correlations Of The Stress-Energy Tensor In AdS Spaces Via The Generalized Zeta-Function	
Method.....	21
<i>H. Cho, B. Hu</i>	
Macroscopic Quantum Phenomena from the Correlation, Coupling and Criticality Perspectives	33
<i>C. Chou, B. Hu, Y. Subasi</i>	
Quantum States And Local Projective Measurement In A Relativistic Field.....	62
<i>S. Lin</i>	
Poincare Gauge Theory With Even And Odd Parity Dynamic Connection Modes: Isotropic Bianchi	
Cosmological Models	73
<i>F. Ho, J. Nester</i>	
Quantum Stress Tensor Fluctuation Effects In Inflationary Cosmology	81
<i>J. Hsiang, C. Wu, L. Ford, K. Ng</i>	
Relativistic Quantum Mechanics On The Light-Front Consistent With Quantum Field Theory.....	87
<i>A. Kvinikhidze, B. Blankleider</i>	
Diverse Applications Of The Gauging Of Equations Method.....	100
<i>B. Blankleider, A. Kvinikhidze, T. Skawronski</i>	
Holographic Dual of the Reissner-Nordstrom Black Hole	128
<i>C. Chen, J. Sun</i>	
Maxwell's Equations, Quantum Physics And The Quantum Graviton.....	138
<i>A. Gersten, A. Moalem</i>	
On The Stueckelberg-Like Generalization Of General Relativity.....	164
<i>M. Pavic</i>	
Electric And Magnetic Fields: Do They Need Lorentz Covariance?	177
<i>Z. Oziewicz</i>	
Equations Of Motion In General Relativity And Quantum Mechanics	205
<i>P. O'Hara</i>	
Harmonic Oscillator States With Integer And Non-Integer Orbital Angular Momentum	221
<i>M. Land</i>	
Abraham-Lorentz-Dirac Equation In 5D Stueckelberg Electrodynamics.....	258
<i>M. Land</i>	
From Binary Black Hole Simulation To Triple Black Hole Simulation.....	280
<i>S. Bai, Z. Cao, W. Han, C. Lin, H. Yo, J. Yu</i>	
Some Features And Implications Of Exponential Gravitation	297
<i>N. Ben-Amots</i>	
Relativistic Radial Expansion: Do We Need Dark Energy?.....	314
<i>N. Ben-Amots</i>	
Author Index	