

Communications in Theoretical Physics

Vol. 63, No. 4, 2015

Contents

General

Exact Periodic Wave Solution of Extended (2+1)-Dimensional Shallow Water Wave Equation with Generalized $D_{\bar{p}}$ -operators <i>DONG Huan-He and ZHANG Yan-Feng</i>	401–405
Analytical Study on Propagation Dynamics of Optical Beam in Parity-Time Symmetric Optical Couplers <i>ZHOU Zheng, ZHU Bo, and ZHANG Li-Juan</i>	406–412
Bosonized Supersymmetric Sawada–Kotera Equations: Symmetries and Exact Solutions <i>LIU Ping, ZENG Bao-Qing, and LIU Li-Ming</i>	413–422
Two-Body Scattering in (1 + 1) Dimensions by a Semi-relativistic Formalism and a Hulthén Interaction Potential <i>S. Hassanabadi, M. Ghominejad, and K.-E. Thylwe</i>	423–426
The Saturation of Several Universal Inequalities in Information-Processing <i>ZHANG Lin, WU Jun-De, and FEI Shao-Ming</i>	427–430
Fault-Tolerant Quantum Dialogue Without Information Leakage Based on Entanglement Swapping between Two Logical Bell States <i>YE Tian-Yu</i>	431–438
Analytic Expression of Geometric Discord in Arbitrary Mixture of any Two Bi-qubit Product Pure States <i>XIE Chuan-Mei, LIU Yi-Min, XING Hang, and ZHANG Zhan-Jun</i>	439–444
Spin-Orbit Coupled s-Wave Superconductor in One-Dimensional Optical Lattice <i>YANG Li-Jun, LANG Li-Jun, LÜ Rong, and HU Hai-Ping</i>	445–452
Modified Holographic Ricci Dark Energy in Chameleon Brans–Dicke Cosmology and Its Thermodynamic Consequence <i>A. Jawad, S. Chattopadhyay, S. Bhattacharya, and A. Pasqua</i>	453–458
Dynamic (2,3) Threshold Quantum Secret Sharing of Secure Direct Communication <i>LAI Hong, Orgun A. Mehmet, XIAO Jing-Hua, Pieprzyk Josef, and XUE Li-Yin</i>	459–465

Physics of Elementary Particles and Fields

Reanalysis of the $Z_c(4020)$, $Z_c(4025)$, $Z(4050)$ and $Z(4250)$ as Tetraquark States with QCD Sum Rules <i>WANG Zhi-Gang</i>	466–480
Auxiliary Lagrangian and Conservation Laws for a Wave Equation Incorporating Dissipation <i>WANG Yang and WEI Long</i>	481–486
Construction of AFLT States for $W_N \otimes \mathcal{H}$ Symmetry, Analytic Continuation and Integrability on AGT Relation <i>LIU Zhi-Sheng, SHOU Bao, WU Jian-Feng, and XU Ying-Ying</i>	487–498

(Continued)

ISSN 0253-6102
CN 11-2592/O3
Price: 108.00 Yuan

ISSN 0253-6102



Atomic and Molecular Physics

- CTMC Investigation of Capture and Ionization Processes in P + H(1s) Collisions in Strong Transverse Magnetic Fields

HE Bin, WANG Jian-Guo, and R.K. Janev 499–504

Electromagnetism, Optics, Acoustics, Heat Transfer, Classical Mechanics, and Fluid Dynamics

- Numerical Analysis of Electromagnetic Fields in Multiscale Model

MA Ji, FANG Guang-You, and JI Yi-Cai 505–509

- Parity Symmetry and Parity Breaking in the Quantum Rabi Model with Addition of Ising Interaction

WANG Qiong, HE Zhi, and YAO Chun-Mei 510–514

Condensed Matter: Structural, Mechanical, and Thermal Properties

- Percolation Phase Transitions from Second Order to First Order in Random Networks

JIA Xiao, HONG Jin-Song, YANG Hong-Chun, YANG Chun, FU Chuan-Ji, HU Jian-Quan, and SHI Xiao-Hong 515–519

Condensed Matter: Electronic Structure, Electrical, Magnetic, and Optical Properties

- Anisotropic Intervalley Plasmon Excitations in Graphene

CHEN Jian and XU Huai-Zhe 520–524