

Communications in Theoretical Physics

Vol. 55, No. 6, 2011

Contents

General

- Infinite Sequence Soliton-Like Exact Solutions of $(2 + 1)$ -Dimensional Breaking Soliton Equation
Taogetusang, Sirendaoerji, and LI Shu-Min 949–954
- Geometric Integrability of Two-Component Camassa–Holm and Hunter–Saxton Systems
SONG Jun-Feng and QU Chang-Zheng 955–959
- A Limit Symmetry of Modified KdV Equation and Its Applications
ZHANG Jian-Bing, JI Jie, SHEN Qing, and ZHANG Da-Jun 960–964
- Continuous Spectrum of Trigonometric Rosen–Morse and Eckart Potentials from Free Particle Spectrum
H. Panahi and H. Pouraram 965–968
- Relativistic Treatment of Spinless Particles Subject to a Rotating Deng–Fan Oscillator
DONG Shi-Hai 969–971
- Schrödinger Equation with Hulthén Potential Plus Ring-Shaped Potential
D. Agboola 972–976
- Genuine (k, m) -Threshold Controlled Teleportation and Multipartite Entanglement
WANG Xin-Wen, LI Da-Chuang, YANG Guo-Jian, and ZHANG Deng-Yu 977–983
- Two-Step Efficient Deterministic Secure Quantum Communication Using Three-Qubit W State
YUAN Hao, ZHOU Jun, ZHANG Gang, WEI Xiang-Fei, and LIU Xiang-Yuan 984–988
- Preparation of Genuinely Entangled Six-Atom State via Cavity Quantum Electrodynamics
ZHANG Wen, LIU Yi-Min, YIN Xiao-Feng, and ZHANG Zhan-Jun 989–992
- Entanglement Fidelity as a Measure of Preservation of Entanglement in Local Noisy Process
XIANG Yang and XIONG Shi-Jie 993–996
- Spontaneous $U(1)$ Symmetry Breaking in Coupled Bose System
WANG Ying, XU Jin-Rong, CHEN Li, and LIU Guo-Hong 997–1000
- Effects of Colored Noise on Periodic Orbits in a One-Dimensional Map
LI Feng-Guo and AI Bao-Quan 1001–1006
- Enhanced Multiparty Controlled QSDC Using GHZ State
Shih-Hung Kao, Chia-Wei Tsai, and Tzonelih Hwang 1007–1011

(Continued)

ISSN 0253-6102
CN 11-2592/O3
Price: 70.00 Yuan

ISSN 0253-6102



New DLW Hierarchy of an Integrable Coupling and Its Hamiltonian Structure <i>LIN Chang and LIN Mai-Mai</i>	1012-1016
Painlevé Analysis, Soliton Solutions and Bäcklund Transformation for Extended (2 + 1)-Dimensional Konopelchenko–Dubrovsky Equations in Fluid Mechanics via Symbolic Computation <i>XU Peng-Bo, GAO Yi-Tian, YU Xin, WANG Lei, and LIN Guo-Dong</i>	1017-1023
Spin-Polarization of Ferroelectric Supperlattice with Spin-1/2 Transverse Ising Model <i>WANG Chun-Dong, TENG Bao-Hua, LU Zhen-Zhen, and KWOK So-Ying</i>	1024-1028

Physics of Elementary Particles and Fields

Light Front Boson Model Propagation <i>Jorge Henrique Sales and Alfredo Takashi Suzuki</i>	1029-1040
Contribution of Electromagnetic Field to Atomic Spin <i>DU Tao, LIANG Wen-Feng, and WU Xiao-Hua</i>	1041-1043
Charmonium Spectrum and Their Transitions in Relativistic Quark Models <i>Bhaghyesh and K.B. Vijaya Kumar</i>	1044-1048
Analysis of Scalar Doubly Heavy Tetraquark States with QCD Sum Rules <i>WANG Zhi-Gang, XU Yan-Mei, and WANG Hui-Juan</i>	1049-1058
Determining Nuclear Form factor for Detection of Dark Matter in Relativistic Mean Field Theory <i>CHEN Ya-Zheng, LUO Yan-An, LI Lei, SHEN Hong, and LI Xue-Qian</i>	1059-1064

Nuclear Physics

Bose–Einstein Condensation in Strong-Coupling Quark Color Superconductor near Flavor SU(3) Limit <i>ZHANG Xiao-Bing, REN Chun-Fu, and ZHANG Yi</i>	1065-1072
---	-----------

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

Lie Group Classifications and Non-differentiable Solutions for Time-Fractional Burgers Equation <i>WU Guo-Cheng</i>	1073-1076
A Two-Layer Model for Superposed Electrified Maxwell Fluids in Presence of Heat Transfer <i>Kadry Zakaria, Magdy A. Sirwah, and Sameh A. Alkharashi</i>	1077-1094

Physics of Gases, Plasmas, and Electric Discharges

Dispersion Relations in Binary Gas Mixtures From a Kinetic Theory <i>AO Ji-Jun, WANG Achilaltu, and YANG Mei-Rong</i>	1095-1101
--	-----------

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

Quantum Phase Transitions and Dimerized Phases in Frustrated Spin Ladder <i>WEN Rui, LIU Guang-Hua, and TIAN Guang-Shan</i>	1102-1108
--	-----------

Evidence of Invariance of Time Scale at Critical Point in Ising Meanfield Equilibrium Equation of State
Muktish Acharyya and Ajanta Bhowal Acharyya 1109-1112

Interdisciplinary Physics and Related Areas of Science and Technology

A New Macro Model for Traffic Flow on a Highway with Bus Stop
TANG Tie-Qiao, SHI Yan-Feng, HUANG Hai-Jun, and SHANG Hua-Yan 1113-1118

A New Car Following Model: Comprehensive Optimal Velocity Model
TIAN Jun-Fang, JIA Bin, and LI Xing-Gang 1119-1126

Phase Transitions of an Epidemic Spreading Model in Small-World Networks
HUA Da-Yin and GAO Ke 1127-1131

Geophysics, Astronomy, and Astrophysics

Braneworld Inflation with Induced Gravity and Curvature Effect
Kouros Nozari and S. Shafizadeh 1132-1146