

# Communications in Theoretical Physics

Vol. 67, No. 2, 2017

## Contents

### General

- Algebraic Structure of Discrete Zero Curvature Equations and Master Symmetries of Discrete Evolution Equations  
*Lin Luo* ..... 127–130
- Lax Triad Approach to Symmetries of Scalar Modified Kadomtsev–Petviashvili Hierarchy  
*Xiao Deng, Kui Chen, and Da-Jun Zhang* ..... 131–136
- Finite-Time Stability for Fractional-Order Bidirectional Associative Memory Neural Networks with Time Delays  
*Chang-Jin Xu, Pei-Luan Li, and Yi-Cheng Pang* ..... 137–142
- Nonlocal Symmetry, CTE Solvability and Interaction Solutions of Whitham–Broer–Kaup Equations  
*Wei Zhou and Bin Lu* ..... 143–146
- Quantum Private Comparison via Cavity QED  
*Tian-Yu Ye* ..... 147–156
- Lie Symmetries, Conservation Laws and Explicit Solutions for Time Fractional Rosenau–Haynam Equation  
*Chun-Yan Qin, Shou-Fu Tian, Xiu-Bin Wang, and Tian-Tian Zhang* ..... 157–165
- Estimation on Geometric Measure of Quantum Coherence  
*Hai-Jun Zhang, Bin Chen, Ming Li, Shao-Ming Fei, and Gui-Lu Long* ..... 166–170
- Strong Analog Classical Simulation of Coherent Quantum Dynamics  
*Dong-Sheng Wang* ..... 171–181
- Dark Soliton Solutions of Space-Time Fractional Sharma–Tasso–Olver and Potential Kadomtsev–Petviashvili Equations  
*Ozkan Guner, Alper Korkmaz, and Ahmet Bekir* ..... 182–188
- Closed Timelike Curves in Type II Non-Vacuum Spacetime  
*Faizuddin Ahmed* ..... 189–191
- Metastability in the Spin-1 Blume–Emery–Griffiths Model within Constant Coupling Approximation  
*C. Ekiz* ..... 192–196
- New Exact Solutions for the Wick-Type Stochastic Kudryashov–Sinelschchikov Equation  
*S. Saha Ray and S. Singh* ..... 197–206
- Solitary Wave Solutions of KP equation, Cylindrical KP Equation and Spherical KP Equation  
*Xiang-Zheng Li, Jin-Liang Zhang, and Ming-Liang Wang* ..... 207–211

(Continued)

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

ISSN 0253-6102



9 770253 610110

## Physics of Elementary Particles and Fields

Inclusive Cross Section Production of  $J/\psi$  in LEP

*T. Osati and B. Abubakri* ..... 212–216

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

Mixture of Electromagnetically Induced Transparency and Autler–Townes Splitting in a Five-Level Atomic System

*Xiao-Yun Zhang, Shan Wu, and Hai-Chao Li* ..... 217–221

## Geophysics, Astronomy, and Astrophysics

Anisotropic Bianchi Type I Cosmological Models with Generalized Chaplygin Gas and Dynamical Gravitational and Cosmological Constants

*S. Kotambkar, G.P. Singh, R. Kelkar, and Binaya K. Bishi* ..... 222–230