

Communications in Theoretical Physics

Vol. 64, No. 5, 2015

Contents

General

- Darboux Transformation for Drinfel'd-Sokolov-Wilson Equation
NIU Xiao-Xing and LIU Qing-Ping 491-494
- Discontinuity and Protection of Quantum Fisher Information for a Two-Qubit System
WANG Guo-You, YUAN Ji-Bing, and ZENG Hao-Sheng 495-500
- Equivalence of a Bit Pixel Image to a Quantum Pixel Image
Carlos Ortega Laurel, DONG Shi-Hai, and M. Cruz-Irisson 501-506
- Analysis on Patterns of Globally Coupled Phase Oscillators with Attractive and Repulsive Interactions
WANG Peng-Fei, RUAN Xiao-Dong, XU Zhong-Bin, and FU Xin 507-514
- Compacton-Like Solutions in a Camassa-Holm Type Equation
LI Hong, WANG Kan-Min, and MA Li-Lin 515-518

Physics of Elementary Particles and Fields

- An Underlying Symmetry Determines all Elements of CKM and PMNS up to a Universal Constant?
KE Hong-Wei and LI Xue-Qian 519-524

Nuclear Physics

- The Role of One Single Lambda Hyperon on Binding Energy Difference of Hypernuclear Mirror Pair
LÜ Hong-Feng and LIU Yu-Ying 525-528

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

- Propagation of Electron Acoustic Soliton, Periodic and Shock Waves in Dissipative Plasma with a q -Nonextensive Electron Velocity Distribution
A.M. El-Hanbaly, E.K. El-Shewy, A. Elgarayhi, and A.I. Kassem 529-536
- Study of Radially Varying Magnetic Field on Blood Flow through Catheterized Tapered Elastic Artery with Overlapping Stenosis
S. Nadeem and S. Ijaz 537-546
- Mathematical Analysis for Peristaltic Flow of Two Phase Nanofluid in a Curved Channel
S. Nadeem and Iqra Shahzadi 547-554

(Continued)

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

ISSN 0253-6102



9 770253 610110

Physics of Gases, Plasmas, and Electric Discharges

- Multi-ion Double Layers in a Magnetized Plasma
M. Shahmansouri, H. Alinejad, and M. Tribeche 555–564
- Self-Focusing of Quadruple Gaussian Laser Beam in an Inhomogenous Magnetized Plasma with Ponderomotive Non-Linearity: Effect of Linear Absorption
Munish Aggarwal, Shivani Vij, and Niti Kant 565–570
- Dispersion Properties of High- and Low-Frequency Electrostatic Oscillations of Plasma Spheres: Application to the Metallic Nanoparticles
Afshin Moradi 571–575

Condensed Matter: Structural, Mechanical, and Thermal Properties

- Acetone Adsorption on Pristine and Pt-doped Graphene: A First-Principles vdW-DF Study
Masoud Darvish Ganji, Hoda Mazaheri, and Azadeh Khosravi 576–582
- ## **Condensed Matter: Electronic Structure, Electrical, Magnetic, and Optical Properties**
- Electronic Correlation Effects on the Optical Properties of SiC, BeO and Boron Nitride Nanotubes and Monolayers
H. Rezania and Z. Aghaii Manesh 583–589

Geophysics, Astronomy, and Astrophysics

- Generalized Ghost Pilgrim Scalar Field Models of Dark Energy
Abdul Jawad, Ujjal Debnath, and Fazal Batool 590–596
- Generalized Second Law of Thermodynamics in Parabolic LTB Inhomogeneous Cosmology
A. Sheykhi, H. Moradpour, K. Rezazadeh Sarab, and B. Wang 597–604