

General

A General Formula of Flow Equations for Harry–Dym Hierarchy <i>CHENG Ji-Peng, HE Jing-Song, and WANG Li-Hong</i>	193–198
Recursion Operators of Two Supersymmetric Equations <i>LI Hong-Min, LI Biao, and LI Yu-Qi</i>	199–203
Exact Solutions of the Harry–Dym Equation <i>Reza Mokhtari</i>	204–208
Two Types of Coupling Integrable Couplings of the S-mKdV Hierarchy <i>WEI Yuan and ZHANG Yu-Feng</i>	209–212
A New Auto-Bäcklund Transformation and Two-Soliton Solution for (3+1)-Dimensional Jimbo–Miwa Equation <i>LIU Chun-Ping and ZHOU Ling</i>	213–216
Quantum Mechanical Correspondence of Poisson Integral Formula <i>FAN Hong-Yi and JIANG Nian-Quan</i>	217–220
Quasinormal Modes of Phantom Scalar Perturbation in Background of Reissner–Nordström Black Hole <i>PAN Qi-Yuan and SU Ru-Keng</i>	221–226
q -Deformed Entangled States Representations and Some Applications <i>XU Ye-Jun, SONG Jun, YUAN Hong-Chun, and LIU Qiu-Yu</i>	227–231
Quantum Entanglement and Nonlocality Properties of Two-Mode Squeezed Thermal States in a Common-Reservoir Model <i>XIANG Shao-Hua, SONG Ke-Hui, WEN Wei, and SHI Zhen-Gang</i>	232–238
A Scheme to Share Information via Employing Discrete Algorithm to Quantum States <i>KANG Guo-Dong and FANG Mao-Fa</i>	239–243
Controlled Remote Preparation of a Two-Qubit State via an Asymmetric Quantum Channel <i>WANG Zhang-Yin</i>	244–250
Three-Tangle for High-Rank Mixed States <i>HE Shu-Juan, WANG Xiao-Hong, FEI Shao-Ming, SUN Hong-Xiang, and WEN Qiao-Yan</i>	251–256
Coherent Assembly of Ultracold Polyatomic Molecules: Two-Channel Interference <i>JING Hui and KONG Jia</i>	257–262

(Continued)

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

ISSN 0253-6102



A 9×9 Matrix Representation of Birman–Wenzl–Murakami Algebra and Berry Phase in Yang–Baxter System
GOU Li-Dan, XUE Kang, and WANG Gang-Cheng 263–267

A Note on Classification of Spatially Homogeneous Rotating Space-Times According to Their Teleparallel Killing Vector Fields in Teleparallel Theory of Gravitation
Ghulam Shabbir, Suhail Khan, and Amjad Ali 268–272

A Few Expanding Integrable Models, Hamiltonian Structures and Constrained Flows
ZHANG Yu-Feng 273–290

Quasi-Local Energy Distribution and Thermodynamics of Reissner–Nordström Black Hole Surrounded by Quintessence
Mahamat Saleh, Bouetou Bouetou Thomas, and Timoleon Crepin Kofane 291–295

Physics of Elementary Particles and Fields

One-Loop Effects of Non-Universal Gauge Boson Z' in Top Quark Pair Production at LHC in TC2 Model
LIU Ning and WU Lei 296–302

A Simple Physical Approach to Study Spectrum of Baryons
H. Hassanabadi 303–306

Nuclear Physics

Half-Lives for Alpha Radioactivity of Elements with $104 \leq Z \leq 120$ within Unified Fission Model
ZHU Tian-Bao, HU Bi-Tao, ZHANG Hong-Fei, DONG Jian-Min, and LI Jun-Qing 307–314

Atomic and Molecular Physics

Surface-Induced Dissociation of Low Energy H_2^+ Impact on a Carbon Surface: A Monte Carlo Simulation
Shakir Ullah, A.H. Dogar, and A. Qayyum 315–320

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

Two Unconditional Stable Schemes for Simulation of Heat Equation on Manifold Using DEC
XIE Zheng 321–324

Multiple-Relaxation-Time Lattice Boltzmann Approach to Richtmyer–Meshkov Instability
CHEN Feng, XU Ai-Guo, ZHANG Guang-Cai, and LI Ying-Jun 325–334

Chirped Domain Wall Arrays and Solitary Waves in a Generalized Nonlinear Schrödinger Equation
CHEN Jun-Lang, DAI Chao-Qing, and WANG Xiao-Gang 335–339

Condensed Matter: Structural, Mechanical, and Thermal Properties

Influence of Surface Geometry of Grating Substrate on Director in Nematic Liquid Crystal Cell
YE Wen-Jiang, XING Hong-Yu, YANG Guo-Chen, ZHANG Zhi-Dong, SUN Yu-Bao, CHEN Guo-Ying, and XIAN Li 340–344

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

Dispersion Theory of Polaron in a Parabolic Quantum Dot at Finite Temperatures <i>SUN Er-Lin, FENG Dong-Hai, JIA Tian-Qing, ZHOU Kan, and SUN Zhen-Rong</i>	345-348
Entanglement Entropy Signature of Quantum Phase Transitions in a Multiple Spin Interactions Model <i>HUANG Hai-Lin</i>	349-354
A Scheme for Spin Manipulation in a Quantum Dot with Both Charge and Spin Bias <i>ZHAO Hua, ZHANG Xiao-Wei, CAI Tuo, and ZHOU Guang-Hui</i>	359-364

Interdisciplinary Physics and Related Areas of Science and Technology

Study of Electronic Density of States: Zintl Alloys <i>Ashwani Kumar and Durga Prasad Ojha</i>	362-367
Theoretical Studies on Interaction Between Methanol and Functionalized Single-Walled Carbon Nanotubes <i>M.D. Ganji, M. Goodarzi, M. Nashtahosseini, and A. Mommadi-nejad</i>	365-370
Entropy Production Rate Changes in Lysogeny/Lysis Switch Regulation of Bacteriophage Lambda <i>DING Hui, LUO Liao-Fu, and LIN Hao</i>	371-376

Geophysics, Astronomy, and Astrophysics

Hawking Tunneling Radiation of Black Holes in Deformed H \ddot{o} rava-Lifshitz Gravity <i>ZENG Xiao-Xiong and LI Ling</i>	376-381
---	---------