

ПН
1-69/jmp

INTERNATIONAL JOURNAL OF MODERN PHYSICS **B**

Volume 27, Number 24
September 30, 2013

Editors-in-Chief

Peter Fulde

Max Planck Institute for the Physics of Complex Systems, Germany

Rongjia Tao

Temple University, USA

Yu Peng Wang

Chinese Academy of Sciences, China

-
-
- Science Citation Index® (SCI®)
 - SciSearch®
 - ISI Alerting Services
 - Current Contents®/Physical, Chemical & Earth Sciences
 - Astrophysics Data System (ADS) Abstract Service
 - Chemical Abstracts Service
 - Mathematical Reviews
 - INSPEC
 - CSA Meteorological & Geostrophysical Abstracts
 - Zentralblatt MATH
 - Scopus
-
-

 **World Scientific**

CONDENSED MATTER PHYSICS • STATISTICAL PHYSICS • APPLIED PHYSICS

INTERNATIONAL JOURNAL OF MODERN PHYSICS B

Vol. 27, No. 24 (30 September 2013)

CONTENTS

Review Paper

TOPOLOGICAL FLAT BAND MODELS AND FRACTIONAL CHERN
INSULATORS

E. J. Bergholtz and Z. Liu 1330017

Research Papers

CAVITATION STRENGTH OF LIQUIDS WITH LARGE MOLECULES

V. E. Vinogradov and P. A. Pavlov 1350128

PHASE TRANSITION, ELASTIC AND THERMODYNAMIC PROPERTIES OF
BERYLLIUM VIA FIRST PRINCIPLES

Y. Cheng, H.-H. Chen, F.-X. Xue, G.-F. Ji and M. Gong 1350130

QUANTUM INFORMATION, THERMOFIELD DYNAMICS AND
THERMALIZED BOSONIC OSCILLATOR

M. A. S. Trindade, L. M. Silva Filho, L. C. Santos, M. Graças, R. Martins
and J. D. M. Vianna 1350133

DECOHERENCE DYNAMICS OF A FLUX QUBIT RESPECTIVELY COUPLED
TO A BOSON BATH AND A SPIN BATH

B.-L. Liang, J.-S. Wang, X.-G. Meng and Q.-Y. Yang 1350134

GENERALIZED RAYLEIGH AND JACOBI PROCESSES AND EXCEPTIONAL
ORTHOGONAL POLYNOMIALS

C.-I. Chou and C.-L. Ho 1350135

THE DYNAMICS OF GEOMETRIC DISCORD AND ITS TRANSFER IN
ATOM-CAVITY-RESERVOIR SYSTEM

T. Wu, X.-K. Song and L. Ye 1350136

LONG-RANGE INTERACTIONS IN THE HELICOIDAL DNA DYNAMICS

M. Saha and T. C. Kofané 1350143

FIRST-PRINCIPLES CALCULATION OF LEAD-FREE PEROVSKITE SnTiO_3

H. Ye, R. Zhang, D. Wang, Y. Cui, J. Wei, C. Wang, Z. Xu, S. Qu
and X. Wei 1350144

Erratum

CONFINEMENT AND QUANTUM ANOMALY IN QUASI-1D SPINLESS
FERMION CHAINS

T. Prudêncio 1392005

(Continued)