

RW
169/jmpb

International Journal of Modern Physics B

CONDENSED MATTER PHYSICS • STATISTICAL PHYSICS
ATOMIC, MOLECULAR & OPTICAL PHYSICS

Volume 28 • Number 26 • 20 October 2014

www.worldscientific.com/ijmpb/



World Scientific

INTERNATIONAL JOURNAL OF MODERN PHYSICS B
Vol. 28, No. 26 (20 October 2014)

CONTENTS

Review Paper

Cooling through quantum criticality and many-body effects in condensed matter and cold gases

B. Wolf, A. Honecker, W. Hofstetter, U. Tutsch and M. Lang 1430017

Research Papers

Lithium and sodium diffusion in solid electrolyte materials of $AM_2(PO_4)_3$ ($A = Li, Na$, $M = Ti, Sn$ and Zr)

J. J. Shi, G. Q. Yin, L. M. Jing, J. Guan, M. P. Wu, Y. L. Zhou,
H. L. Lou and Z. Wang 1450176

Coherent states and geometric phases of a generalized damped harmonic oscillator with time-dependent mass and frequency

I. A. Pedrosa and D. A. P. de Lima 1450177

Quantum transport: A unified approach via a multivariate hypergeometric generating function

A. F. Macedo-Junior and A. M. S. Macêdo 1450178

Emergence of quantum mechanics from a sub-quantum statistical mechanics

G. Grössing 1450179

Electrical conductivity and density of state of boron nitride nanotubes due to electronic correlation

H. Rezania 1450180

Enhancement of thermoelectric power factor by Si:B addition to higher manganese silicide film

Q. R. Hou, B. F. Gu and Y. B. Chen 1450181

Structural and optical properties of lithium sodium borate glasses doped with Sm^{3+} ions

R. S. E. S. Dawaud, S. Hashim, Y. S. M. Alajerami, M. H. A. Mhareb,
M. M. Maqableh and N. Tamchek 1450182

A new theory about single-walled carbon nanotubes

Y. Y. Tsai and S. C. Fang 1450186

Erratum

Critical phenomena in one dimension from a Bethe ansatz perspective

X. Guan 1492005