


Volume 327, issue 1

21 June 2004

ISSN 0375-9601

# PHYSICS LETTERS A

Also available on

SCIENCE  DIRECT®

[www.sciencedirect.com](http://www.sciencedirect.com)

# PHYSICS LETTERS A

Abstracted/Indexed in: Chemical Abstracts/Current Contents: Physical, Chemical and Earth Sciences/  
INSPEC

Volume 327, issue 1

21 June 2004

## Contents

### General physics

#### Stabilization of a Fabry–Perot interferometer using a suspension-point interferometer

Y. Aso, M. Ando, K. Kawabe, S. Otsuka and K. Tsubono

1

### Statistical physics

#### Rotational dynamics of turbulence and Tsallis statistics

A.M. Reynolds and M. Veneziani

9

### Quantum physics

#### Enhanced effects of subluminal and superluminal propagation

F. Xiao, H. Guo, L. Li, C. Liu and X. Chen

15

#### Classical and quantum-mechanical picture of NRSE—measuring the longitudinal Stern–Gerlach effect by means of TOF methods

N. Arend, R. Gähler, T. Keller, R. Georgii, T. Hils and P. Böni

21

#### How much security does Y-00 protocol provide us?

T. Nishioka, T. Hasegawa, H. Ishizuka, K. Imafuku and H. Imai

28

#### Proposed optical test of Bell's inequalities not resting upon the fair sampling assumption

E. Santos

33

### Nonlinear science

#### Crystallization behavior of novel amorphous $\text{Al}_{85}\text{Mg}_{10}\text{Ce}_5$ alloy

B. Zhang, X. Bian, P. Si, J.K. Zhou, T. Lin and Y. Jia

38

#### Some sufficient conditions for stabilizing periodic orbits without the odd-number property by delayed feedback control in continuous-time systems

H. Nakajima

44

### Nanoscience

#### Dimerization of $\text{C}_{60}$ molecules within the single-walled carbon nanotube

F. Cui, C. Luo and J. Dong

55

#### A study of bubble inflation in polymers and its applications

Q. Meng and D. Wu

61

### Condensed matter

#### Nature of the self-trapping transition in a one-dimensional Holstein–Hubbard model

R.P. Murali Krishna, S. Mukhopadhyay and A. Chatterjee

67

#### Diluted magnetic semiconductor at finite temperature

S.-J. Sun and H.-H. Lin

73

#### Dynamic scaling of the growth process of GaN thin films deposited on sapphire substrates by HVPE

D. Lu, R. Zhang, H. Yu, X. Xiu, X. Li, S. Gu, B. Shen, Y. Shi and Y. Zheng

78

#### Vibrations of single-wall carbon nanotubes: lattice models and low-frequency dispersion

Yu.N. Gartstein

83

**CONTENTS**  
**direct**

This journal is part of **ContentsDirect**, the *free* alerting service which sends tables of contents by e-mail for Elsevier books and journals. You can register for **ContentsDirect** online at: <http://contentsdirect.elsevier.com>



0375-9601(20040621)327:1;1-R