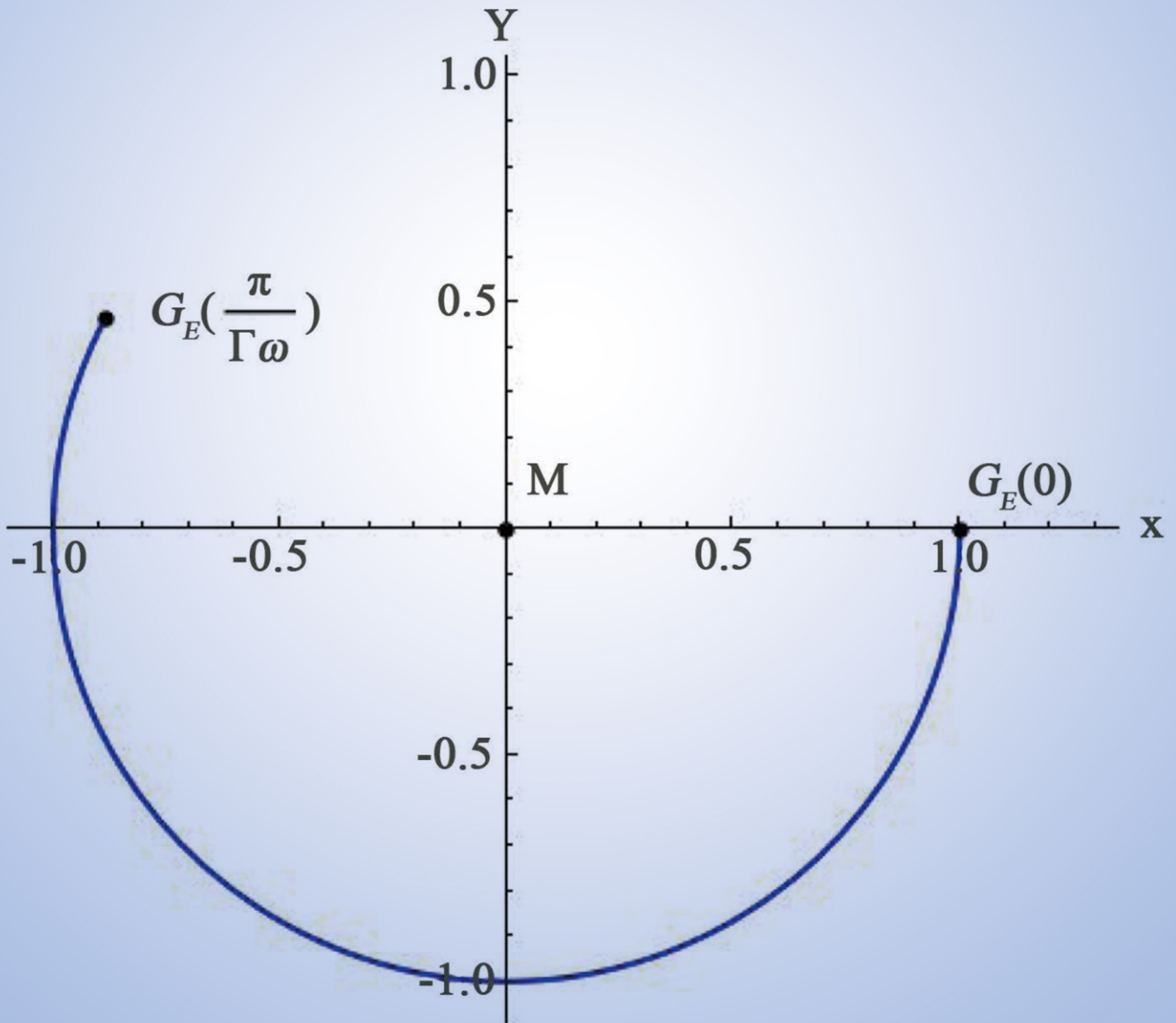


Journal of Modern Physics



ISSN: 2153-1196



Journal Editorial Board

ISSN: 2153-1196 (Print) ISSN: 2153-120X (Online)

<http://www.scirp.org/journal/jmp>

Editor-in-Chief

Prof. Yang-Hui He

City University, UK

Executive Editor-in-Chief

Prof. Marko Markov

Research International, Buffalo Office, USA

Managing Executive Editor

Prof. Chang Liu

Wuhan University, China

Editorial Board

Prof. Nikolai A. Sobolev

Universidade de Aveiro, Portugal

Prof. Yohannes Abate

California State University, USA

Dr. Mohamed Abu-Shady

Menoufia University, Egypt

Dr. Hamid Alemohammad

Advanced Test and Automation Inc., Canada

Prof. Emad K. Al-Shakarchi

Al-Nahrain University, Iraq

Prof. Changle Chen

University of Science and Technology of China, China

Prof. Stephen Robert Cotanch

NC State University, USA

Prof. Sharmanthie Fernando

Northern Kentucky University, USA

Prof. Ju Gao

The University of Hong Kong, China

Prof. Sachin Goyal

University of California, USA

Dr. Wei Guo

Florida State University, USA

Prof. Alioscia Hamma

Tsinghua University, China

Prof. Cosmin Ilie

Los Alamos National Laboratory, USA

Prof. Haikel Jelassi

National Center for Nuclear Science and Technology, Tunisia

Prof. Preston B. Landon

The University of California, USA

Prof. Chunlei Liu

Carnegie Mellon University, USA

Prof. Christophe J. Muller

University of Provence, France

Prof. Ambarish Nag

National Renewable Energy Laboratory, USA

Dr. Rada Novakovic

National Research Council, Italy

Prof. Valery Obukhov

Tomsk State Pedagogical University, Russia

Prof. Tongfei Qi

University of Kentucky, USA

Prof. Richard Saurel

University of Aix Marseille I, France

Prof. Alejandro Crespo Sosa

Universidad Nacional Autónoma de México, Mexico

Prof. Bo Sun

Oregon State University, USA

Prof. Mingzhai Sun

Ohio State University, USA

Dr. Sergei K. Suslov

Arizona State University, USA

Dr. A. L. Roy Vellaisamy

City University of Hong Kong, China

Prof. Yuan Wang

University of California, Berkeley, USA

Prof. Fan Yang

Fermi National Accelerator Laboratory, USA

Prof. Peter H. Yoon

University of Maryland, USA

Dr. S. Zerbini

University of Trento, Italy

Prof. Meishan Zhao

University of Chicago, USA

Prof. Pavel Zhuravlev

University of Maryland at College Park, USA

Table of Contents

Volume 8 Number 8

July 2017

On Excited Meson Spectra in the Scalar Strong Interaction Hadron Theory	
F. C. Hoh.....	1127
Constraining Forces Causing the Meissner Effect	
E. Krüger.....	1134
The Correlation of Miller Indices with the Conductivity Mechanism of Cu-Based High-T_c Superconductor	
I. Maher, E. K. Al-Shakarchi.....	1143
General Relativity and the Theory of a Self-Interacting Abelian Gauge Field	
D. Wisnivesky.....	1152
Quanta of the Phase-Space Areas Given by Intervals of Energy and Time Associated with Electron Transitions	
S. Olszewski.....	1158
A Euclidean-Like Discrete Spacetime from the Unification of a Multitude of Hypercubic Lattices	
C. T. de Groot.....	1175
Using Tangent Boost along a Worldline and Its Associated Matrix in the Lie Algebra of the Lorentz Group	
M. Langlois, M. Meyer, J.-M. Vigueux.....	1190
On the Question of the Invariance of the Light Speed	
S. N. Artekha, A. Chubykalo, A. Espinoza.....	1213
Phantom and Quintessence Fields Coupled to Scalar Curvature in General $f(R)$ Gravity Theory	
X. Y. Zhang, Y. C. Huang.....	1234
A Physical Basis for Entanglement in a Non-Local Hidden Variable Theory	
D. J. Pons, A. D. Pons, A. J. Pons.....	1257
Crustal Magnetization of Mars: Terra Meridiani and Terra Sirenum	
R. A. French, D. M. Jurdy.....	1275
God is a Porcupine—Brain, Consciousness and Spacetime Physics	
W. J. Christensen Jr.....	1294

From a Dual Einstein-Kaluza Spacetime to 'tHooft Renormalon and the Reality of Accelerated Cosmic Expansion

M. S. El Naschie.....1319

An Emergence of a Quantum World in a Self-Organized Vacuum—A Possible Scenario

V. A. Manasson.....1330

Zeno of Elea Shines a New Light on Quantum Weirdness

M. E. Burgos.....1382

Quantum Inverse Measurement Theory Contributing to the Birth of Interpretation System of Quantum Mechanics of Local-Realism and Determinism

R. S. Tu.....1398

GPS and the Search for Axions

A. Nicolaidis.....1470

On the Origin of Charge-Asymmetric Matter. III. Properties of Autolocalized Dirac Waveforms

A. Makhlin.....1478

Journal of Modern Physics (JMP)

Journal Information

SUBSCRIPTIONS

The *Journal of Modern Physics* (Online at Scientific Research Publishing, www.SciRP.org) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$89 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

Copyright and reuse rights for the front matter of the journal:

Copyright © 2017 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

<http://creativecommons.org/licenses/by/4.0/>

Copyright for individual papers of the journal:

Copyright © 2017 by author(s) and Scientific Research Publishing Inc.

Reuse rights for individual papers:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

Disclaimer of liability

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: jmp@scirp.org



Call for Papers

Journal of Modern Physics

ISSN: 2153-1196 (Print) ISSN: 2153-120X (Online)
<http://www.scirp.org/journal/jmp>

Journal of Modern Physics (JMP) is an international journal dedicated to the latest advancement of modern physics. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of modern physics.

Editor-in-Chief

Prof. Yang-Hui He

City University, UK

Executive Editor-in-Chief

Prof. Marko Markov

Research International, Buffalo Office, USA

Subject Coverage

Journal of Modern Physics publishes original papers including but not limited to the following fields:

Biophysics and Medical Physics
Complex Systems Physics
Computational Physics
Condensed Matter Physics
Cosmology and Early Universe
Earth and Planetary Sciences
General Relativity
High Energy Astrophysics
High Energy/Accelerator Physics
Instrumentation and Measurement
Interdisciplinary Physics
Materials Sciences and Technology
Mathematical Physics
Mechanical Response of Solids and Structures

New Materials: Micro and Nano-Mechanics and Homogeneization
Non-Equilibrium Thermodynamics and Statistical Mechanics
Nuclear Science and Engineering
Optics
Physics of Nanostructures
Plasma Physics
Quantum Mechanical Developments
Quantum Theory
Relativistic Astrophysics
String Theory
Superconducting Physics
Theoretical High Energy Physics
Thermology

We are also interested in: 1) Short Reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book Reviews—Comments and critiques.

Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Website and E-Mail

<http://www.scirp.org/journal/jmp>

E-mail: jmp@scirp.org

What is SCIRP?

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science with its publication.

What is Open Access?

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, worldwide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience



**Scientific
Research
Publishing**

Website: <http://www.scirp.org>

Subscription: sub@scirp.org

Advertisement: service@scirp.org