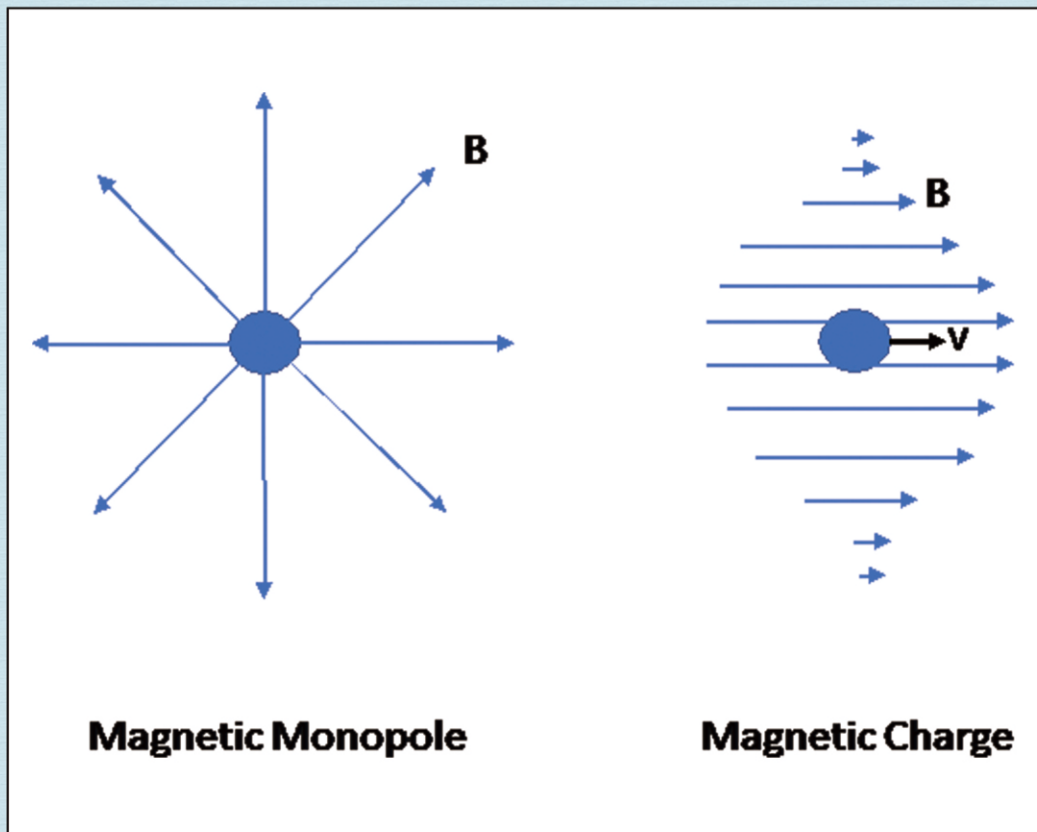


Journal of Modern Physics



Journal Editorial Board

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

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

Editorial Board

Prof. Nikolai A. Sobolev	Universidade de Aveiro, Portugal
Prof. Mohamed Abu-Shady	Menoufia University, Egypt
Dr. Hamid Alemohammad	Advanced Test and Automation Inc., Canada
Prof. Emad K. Al-Shakarchi	Al-Nahrain University, Iraq
Dr. Francesco Bajardi	Scuola Superiore Meridionale, Italy
Prof. Antony J. Bourdillon	UHRL, USA
Dr. Swarniv Chandra	Government General Degree College, India
Prof. Tsao Chang	Fudan University, China
Prof. Wan Ki Chow	The Hong Kong Polytechnic University, China
Prof. Jean Cleymans	University of Cape Town, South Africa
Prof. Stephen Robert Cotanch	NC State University, USA
Prof. Claude Daviau	Ministry of National Education, France
Prof. Rami Ahmad El-Nabulsi	Chiang Mai University, Thailand
Prof. Peter Chin Wan Fung	The University of Hong Kong, China
Prof. Ju Gao	The University of Hong Kong, China
Prof. Robert Golub	North Carolina State University, USA
Dr. Sachin Goyal	University of California, USA
Dr. Wei Guo	Florida State University, USA
Prof. Karl Hess	University of Illinois, USA
Prof. Peter Otto Hess	Universidad Nacional Autónoma de México, Mexico
Prof. Ahmad A. Hujeirat	University of Heidelberg, Germany
Prof. Haikel Jelassi	National Center for Nuclear Science and Technology, Tunisia
Prof. Magd Elias Kahil	October University for Modern Sciences and Arts (MSA), Egypt
Prof. Santosh Kumar Karn	Dr. APJ Abdul Kalam Technical University, India
Prof. Sanjeev Kumar	Dr. Bhimrao Ambedkar University, India
Dr. Giuseppe Levi	Bologna University, Italy
Prof. Yu-Xian Li	Hebei Normal University, China
Prof. Anton A. Lipovka	Sonora University, Mexico
Prof. Wu-Ming Liu	Chinese Academy of Sciences, China
Dr. Ludi Miao	Cornell University, USA
Dr. Grégory Moreau	Paris-Saclay University, France
Prof. Christophe J. Muller	University of Provence, France
Dr. Rada Novakovic	National Research Council, Italy
Dr. Vasilis Oikonomou	Aristotle University of Thessaloniki, Greece
Prof. Vinod Prasad	Swami Sharddhanand College Delhi, India
Prof. Tongfei Qi	University of Kentucky, USA
Prof. Mohammad Mehdi Rashidi	University of Birmingham, UK
Prof. Haiduke Sarafian	The Pennsylvania State University, USA
Prof. Kunnat J. Sebastian	University of Massachusetts, USA
Dr. Ramesh C. Sharma	Ministry of Defense, India
Dr. Reinoud Jan Slagter	Astronomisch Fysisch Onderzoek Nederland, Netherlands
Dr. Giorgio Sonnino	Université Libre de Bruxelles, Belgium
Prof. Yogi Srivastava	Northeastern University, USA
Dr. Mitko Stoev	South-West University “Neofit Rilski”, Bulgaria
Dr. A. L. Roy Vellaisamy	City University of Hong Kong, China
Prof. Lev Zalman Vilenchik	Felicitex Therapeutics, USA
Prof. Anzhong Wang	Baylor University, USA
Prof. Cong Wang	Beihang University, China
Prof. Yuan Wang	University of California, Berkeley, USA
Prof. Peter H. Yoon	University of Maryland, USA
Prof. Meishan Zhao	University of Chicago, USA
Prof. Pavel Zhuravlev	University of Maryland at College Park, USA

Table of Contents

Volume 14 Number 10

September 2023

Magnetic Charge Theory Part 4: Fermion Angular Momentum	
K. G. Lyon.....	1305
Entropy and Cosmological Constant of a Universe Calculated by Means of Dimensional Analysis, Margolus-Levitin Theorem and Landauer's Principle	
M. Leo.....	1310
Non-Stationary and Resonant Passage of a System: A High-Frequency Cutoff Noise	
X. Y. Shi.....	1323
Extra Time Dimension: Deriving Relativistic Space-Time Transformations, Kinematics, and Example of Dimensional Compactification Using Time-Dependent Non-Relativistic Quantum Mechanics	
S. Zahir.....	1333



Call for Papers

Journal of Modern Physics

ISSN: 2153-1196 (Print) ISSN: 2153-120X (Online)
<https://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.

Subject Coverage

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

Biophysics and Medical Physics	New Materials: Micro and Nano-Mechanics and Homogeneization
Complex Systems Physics	Non-Equilibrium Thermodynamics and Statistical Mechanics
Computational Physics	Nuclear Science and Engineering
Condensed Matter Physics	Optics
Cosmology and Early Universe	Physics of Nanostructures
Earth and Planetary Sciences	Plasma Physics
General Relativity	Quantum Mechanical Developments
High Energy Astrophysics	Quantum Theory
High Energy/Accelerator Physics	Relativistic Astrophysics
Instrumentation and Measurement	String Theory
Interdisciplinary Physics	Superconducting Physics
Materials Sciences and Technology	Theoretical High Energy Physics
Mathematical Physics	Thermology
Mechanical Response of Solids and Structures	

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

<https://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: <https://www.scirp.org>
Subscription: sub@scirp.org
Advertisement: service@scirp.org**