ISSN: 2160-0368 Vol. 4, No. 10, October 2014

Scientific Research

Advances in Pure Mathematics

ISSN: 2160-0368

www.scirp.org/journal/apm

Journal Editorial Board

ISSN 2160-0368 (Print) ISSN 2160-0384 (Online)
http://www.scirp.org/journal/apm

Editor-in-Chief

Prof. Dexing Kong Zhejiang University, China

Editorial Board

Dr. Taher S. H. Abdelmonem Mansoura University, Egypt
Dr. Adel Ahmed Attiya University of Mansoura, Egypt
Prof. Józef Banaś Bronislaw Markiewicz State School of Higher Vocational Education in Jaroslaw, Poland
Prof. Constantin Buse West University of Timisoara, Romania
Prof. Sumit Chandok Punjab Technical University, India
Prof. Muhammad A. Chaudhry King Fahd University of Petroleum and Minerals, Saudi Arabia
Prof. Leo Depuydt Brown University, USA
Prof. Dragan S. Djordjevic University of Nis, Serbia
Prof. Ahmed M. A. El-Sayed Alexandria University, Egypt
Prof. Marisa Fernandez Universidad del País Vasco, Spain
Dr. Flaminio Flamini University of Rome II, Italy
Prof. Cristescu Gabriela Aurel Vlaicu University of Arad, Romania
Prof. Hongya Gao Hebei University, China
Prof. Aleksander Grytczuk University of Zielona Góra and Jan Pawel II Western, Poland
Prof. Yuxia Guo Tsinghua University, China
Prof. Sevdzhan Hakkaev University of Kansas, Lawrence, USA
Dr. Chengchun Hao Chinese Academy of Sciences, China
Prof. Tian-Xiao He Illinois Wesleyan University, USA
Prof. Wei He Nanjing Normal University, China
Prof. Tingzhu Huang University of Electronic Science & Technology of China, China
Prof. Shuichi Izumiya Hokkaido University, Japan
Prof. Toshitake Kohno The University of Tokyo, Japan
Prof. Vichian Laohakosol Kasetsart University, Thailand
Dr. Jingjing Ma University of Houston-Clear Lake, USA
Prof. Elimhan N. Mahmudov Istanbul Technical University, Turkey
Prof. Ming Mei McGill University and Champlain College Saint-Lambert, Canada
Prof. Rer. nat. Mara D. Neusel Texas Tech University, USA
Dr. Marek Niezgoda University of Life Sciences in Lublin, Poland
Dr. Jyotindra C. Prajapati Charotar University of Science and Technology, India
Dr. Marius Rădulescu Institute of Mathematical Statistics and Applied Mathematics "Gheorghe Mihoc-Caius Iacob" of the Romanian Academy, Bucharest, Romania
Prof. Jingli Ren Zhengzhou University, China
Prof. Bayram Sahin Inonu University, Turkey
Dr. Samir H. Saker Mansoura University, Egypt
Dr. Bessem Samet Tunis College of Sciences and Techniques, Tunisia
Prof. Yongli Song Tongji Universtiy, China
Prof. Yeong-Jeu Sun I-Shou University, Chinese Taipei
Dr. Néstor Thome Universidad Politécnica de Valencia, Spain
Prof. Aydin Tiryaki Izmir University, Turkey
Prof. Gabor Toth Eötvös Loránd University, Hungary
Dr. Amitabha Tripathi Indian Institute of Technology, India
Prof. Nodari Vakhania Georgian Academy of Sciences, Mexico
Prof. Jose C. Valverde University of Castilla-La Mancha, Spain
Prof. Qingwen Wang Shanghai University, China
Dr. Yanjin Wang Institute of Applied Physics and Computational Mathematics, China
Dr. Jasang Yoon The University of Texas-Pan American, USA
Prof. Norio Yoshida University of Toyama, Japan
Prof. Mohamed F. Yousif The Ohio State University, USA
Dr. Shijun Zheng Georgia Southern University, USA
Prof. Changjiang Zhu Huazhong Normal University, China

Advances in Pure Mathematics, 2014, 4, 529-565
Published Online October 2014 in SciRes. http://www.scirp.org/journal/apm

Scientific Research

Table of Contents

Volume 4 Number 10 October 2014

Dual Quermassintegral Differences for Intersection Body

L. Z. Zhao, J. Yuan.....529

Irreducible Representations of Algebraic Group *SL*(6,*K*) in char*K* = 3

Z. G. Zhou.....535

Necessary and Sufficient Conditions for a Class Positive Local Martingale

C. Z. Chen, S. S. Yang.....545

Real-Time Modelling of Dynamic Behaviour for Clinker Rotary Kilns:
Learning from Experiment and Theory

T. Stanislaw, Y. G. N'zi.....550

Advances in Pure Mathematics (APM)

Journal Information

SUBSCRIPTIONS

The *Advances in Pure Mathematics* (Online at Scientific Research Publishing, www.SciRP.org) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: $79 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 © 2014 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 © 2014 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.

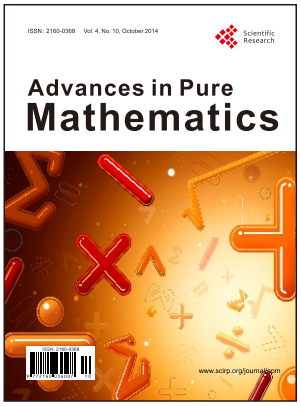
DISCLAIMER OF LIABILITY

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: apm@scirp.org

Call for Papers



Advances in Pure Mathematics (APM)

ISSN 2160-0368 (Print) ISSN 2160-0384 (Online)
http://www.scirp.org/journal/apm

***Advances in Pure Mathematics* (*APM*)** is an international journal dedicated to the latest advancements in ordered algebraic structures. 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 ordered algebraic structures.

Subject Coverage

This journal invites original research and review papers that address the following issues. Topics of interest include, but are not limited to:

- Applied Harmonic Analysis
- Approximation Theory
- Asymptotic Methods
- Bifurcation Theory
- Coding Theory
- Combinatorics
- Complex Analysis
- Convex Analysis
- Difference Equations
- Differential Equations
- Dynamical Systems
- Fixed-Point Theory
- Fourier Analysis
- Fractals
- Fractional Analysis
- Functional Differential Equations
- Fuzzy Mathematics
- Geometry
- Geometry of Banach Spaces
- Integral Equations
- Mathematical Biology, including Population Dynamics
- Mathematical Physics
- Matrix Theory
- Moment Theory
- Number Theory
- Numerical Analysis
- Operator Theory
- Optimal Control
- Optimization Wavelets
- Partial Differential Equations
- Probability
- Reaction-Diffusion Problems, Discrete Mathematics
- Scattering Theory
- Semigroups of Operators
- Signal Theory
- Special Functions
- Statistics
- Stochastic Process
- Topology and Applications
- Transport Theory
- Ultrametric Analysis
- Variational Methods

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of the APM.

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/apm **E-mail: apm@scirp.org**