

ISSN 1225-1763(Print)  
ISSN 2234-3024(Online)

# 대한수학회논문집

# MATHEMATICS

**COMMUNICATIONS**  
OF THE KOREAN  
MATHEMATICAL SOCIETY  
제 29 권 제 3 호 2014

COMMUNICATIONS OF THE KOREAN MATHEMATICAL SOCIETY

VOL. 29, No. 3

July 2014

ISSN 1225-1763(Print)  
ISSN 2234-3024(Online)

## COMMUNICATIONS OF THE KOREAN MATHEMATICAL SOCIETY

Since its inception in 1986, this journal endeavors to publish significant research developments of broad interests in pure and applied mathematics. One volume is published each year, and each volume consists of four issues (January, April, July, October).

### Editorial Policy

To be published in the *Communications*, a paper must be correct, new, nontrivial, and significant. The *Communications* also publishes good survey papers and can issue special volumes for specific topics.

### Submission of Manuscripts

See **Information for Authors** at the end of this issue.

### Copyright

A Copyright Transfer Agreement is required before the publication of a paper in this journal. The submission of a paper implies the author's assurance that it has not been copyrighted, published, nor submitted for publication elsewhere.

### Subscriptions

The subscription price is US\$50 per year to individuals, US\$100 per year to institutions. Members of the KMS receive exclusive discount on annual subscriptions to KMS journals. Correspondences regarding subscriptions, membership, and notices of change of address should be sent to:

Korean Mathematical Society, The Korea Science and Technology Center 202,  
22, 7 Gil, Teheran-ro, Gangnam-gu, Seoul 135-703, Korea  
E-mail: kms@kms.or.kr

### Publications of the Society

The KMS publishes three research periodicals, the Journal, the Bulletin, and the Communications. The Journal and Bulletin are published bimonthly and the Communications is published quarterly.

### Indexing and Abstracting Services

Articles published in this journal are indexed on abstracted in Mathematical Reviews and SCOPUS.

© Korean Mathematical Society, 2014  
Published by the Korean Mathematical Society  
Printed in Korea, July 2014  
This work was supported by the Korean Federation of Science and Technology  
Societies(KOFST) grant funded by the Korea government(MOSF&MSIP).



CONTENTS

ALGEBRA AND NUMBER THEORY

EUNMI CHOI

Fibonacci numbers and semisimple continued fraction..... 387

ANALYSIS

AN-HYUN KIM AND EUN-JIN RYU

The spectral continuity of essentially hyponormal operators..... 401

KAZUHIRO KASUGA

Norm of the composition operator from Bloch space to Bergman space ..... 409

ALI SINAN SERTÖZ

Dirichlet problem for polynomials on the unit disk..... 415

SUNG GUEN KIM

Polarization and unconditional constants of  $\mathcal{P}({}^2d_*(1, w)^2)$ ..... 421

SEBASTIEN GABOURY AND ARJUN K. RATHIE

Further hypergeometric identities deducible by fractional calculus... 429

BÜLENT NAFİ ÖRNEK

Inequalities for the non-tangential derivative at the boundary for holomorphic function..... 439

GEOMETRY

DAE HO JIN

Indefinite trans-Sasakian manifold admitting an ascreen half lightlike submanifold..... 451

TOPOLOGY

ALI S. JANFADA

Criteria for a symmetrized monomial in  $B(3)$  to be non-hit ..... 463

APPLIED MATHEMATICS

SHAKEEL AHMED AND MUMTAZ AHMAD KHAN

Euler type integral involving generalized Mittag-Leffler function..... 479

YOUNGROK LEE AND JAESUNG LEE

The pricing of quanto options in the double square root stochastic volatility model ..... 489