

2014 · VOLUME 26 · NUMBER 2

FORUM MATHEMATICUM

MANAGING EDITOR

Jörg Brüdern, Göttingen

EDITORS

David J. Benson, Aberdeen

Jan H. Bruinier, Darmstadt

Frederick R. Cohen, Rochester

Manfred Droste, Leipzig

Frank Duzaar, Erlangen

Giovanni Gallavotti, Rome

Josselin Garnier, Paris

Karl-Hermann Neeb, Erlangen

Junjiro Noguchi, Tokyo

Andrew Ranicki, Edinburgh

Freydoon Shahidi, West Lafayette

Ichiro Shigekawa, Kyoto

Christopher D. Sogge, Baltimore

Karl Strambach, Erlangen

DE GRUYTER

FORUM MATHEMATICUM is devoted entirely to the publication of original research articles in all fields of pure and applied mathematics, including mathematical physics. Expository surveys, research announcements, book reviews, etc. will not be published.

All information regarding notes for contributors, subscriptions, Open access, back volumes and orders is available online at www.degruyter.com/forum.

ABSTRACTED/INDEXED IN Current Contents/PC & ES, CompuMath Citation Index, Science Citation Index (SCI), Research Alert, Mathematical Reviews/MathSciNet and Zentralblatt MATH.

ISSN 0933-7741 · e-ISSN 1435-5337 · CODEN FOMAEF

RESPONSIBLE EDITOR Jörg Brüderin, Mathematisches Institut, Universität Göttingen, Bunsenstr. 3-5, 37073 Göttingen, Germany.
Email: bruedern@uni-math.gwdg.de

JOURNAL MANAGER Theresa Haney, De Gruyter, Genthiner Straße 13, 10785 Berlin, Germany.
Tel.: +49 (0)30 260 05 - 375, Fax: +49 (0)30 260 05 - 250
Email: theresa.haney@degruyter.com

RESPONSIBLE FOR ADVERTISEMENTS Panagiota Herbrand, De Gruyter, Rosenheimer Straße 143, 81671 München, Germany.
Tel.: +49 (0)89 769 02-394, Fax: +49 (0)89 769 02-350
Email: panagiota.herbrand@degruyter.com

© 2014 Walter de Gruyter GmbH, Berlin/Boston

TYPESETTING Dimler & Albroseheit, Müncheberg

PRINTING Franz X. Stückle Druck und Verlag e.K., Ettenheim

Printed in Germany



M. S. PUTCHA	
Centralizer of an idempotent in a reductive monoid	323
L. FUNAR, T. KOHNO	
Free subgroups within the images of quantum representations	337
I. DOLINKA	
The Bergman property for endomorphism monoids of some Fraïssé limits	357
L. TANG	
Boundary value problems for heat equation with certain potentials in Lipschitz cylinders	377
D. Q. VIET, T. T. H. THANH	
On some multiplicity and mixed multiplicity formulas	413
J. SÁNCHEZ	
Free group algebras in Malcev–Neumann skew fields of fractions	443
H. WULAN, J. ZHOU	
Decomposition theorems for Q_K spaces and applications	467
L. SMITH	
Ideals of generalized invariants, local cohomology and Macaulay’s double duality theorem	497
B. HOUGH	
The distribution of the logarithm in an orthogonal and a symplectic family of L -functions	523
D. CONTI, M. FERNÁNDEZ, J. A. SANTISTEBAN	
On seven-dimensional quaternionic contact solvable Lie groups	547
D. L. WEHLAU	
Weitzenböck derivations of nilpotency 3	577
F. MURO, A. TONKS	
Unital associahedra	593
A. BAKLOUTI, J. INOUE	
On the norm of the L^p -Fourier transform on compact extensions of \mathbb{R}^n	621
M. I. AL-ALI BANI ATA, E. AL-SHEMAS	
On the existence of semifields of order q^8 admitting elementary abelian groups of order 8	637

