



774  
JBO/al

Volume 409, July 1, 2014

ISSN 0021-8693

# JOURNAL OF ALGEBRA

## **Editor-in-Chief**

Michel Broué

## **Editor of the section on Computational Algebra**

Gerhard Hiss

## **Founding Editor**

G. Higman, 1964–1984

## **Editor-in-Chief**

W. Feit, 1985–2000

## **Editorial Board**

Nicolás Andruskiewitsch

Luchezar L. Avramov

Paul Balmer

Eva Bayer-Fluckiger

Inna Capdeboscq

Steven Dale Cutkosky

Alberto Elduque

Dihua Jiang

Masaki Kashiwara

E.I. Khukhro

Shrawan Kumar

Kazuhiko Kurano

Gus I. Lehrer

Martin Liebeck

Gunter Malle

Volodymyr Mazorchuk

Louis Rowen

Leonard L. Scott, Jr.

Vera Serganova

Aner Shalev

Ronald Solomon

V. Srinivas

J.T. Stafford

Gernot Stroth

Bernd Ulrich

Michel Van den Bergh

Changchang Xi

Efim Zelmanov

## **Section on Computational Algebra**

Jon Carlson

John Cremona

Patrick Dehornoy

Derek Holt

William M. Kantor

Reinhard Laubenbacher

Eamonn O'Brien

Bruno Salvy

Seth Sullivant

Jean-Yves Thibon



Abstracted/indexed in Mathematical Reviews, Science Citation Index (ISI), Compumath Citation Index, Zentralblatt MATH, Current Contents: (PC & ES). Also covered in the abstract and citation database Scopus®. Full text available on ScienceDirect®.

CONTENTS

*General Section*

<b>On fixed points of central automorphisms of finite-by-nilpotent groups</b>	1
F. Catino, F. de Giovanni, and M.M. Miccoli	
<b>Pluri-canonical maps of varieties of maximal Albanese dimension in positive characteristic</b>	11
Yuchen Zhang	
<b>Hopf actions and Nakayama automorphisms</b>	26
Kenneth Chan, Chelsea Walton, and James Zhang	
<b>The <math>\mathfrak{sl}_N</math>-web algebras and dual canonical bases</b>	54
Marco Mackaay	
<b>Wonderful subgroups of reductive groups and spherical systems</b>	101
P. Bravi and G. Pezzini	
<b>The extended affine Lie algebra associated with a connected non-negative unit form</b>	148
Gustavo Jasso	
<b>Picard–Vessiot theory of differentially simple rings</b>	162
Andreas Maurischat	
<b>Rings and modules characterized by opposites of injectivity</b>	182
Rafail Alizade, Engin Büyükaşık, and Noyan Er	
<b>Some topological considerations on semistar operations</b>	199
Carmelo Antonio Finocchiaro and Dario Spirito	
<b>Low-dimensional representations of matrix groups and group actions on CAT(0) spaces and manifolds</b>	219
Shengkui Ye	
<b>Invariants, exponents and formal group laws</b>	244
J. Malagón-López, K. Zainouline, and C. Zhong	
<b>Representations of the double Burnside algebra and cohomology of the extraspecial <math>p</math>-group</b>	265
Akihiko Hida and Nobuaki Yagita	
<b>On functors between module categories for associative algebras and for <math>\mathbb{N}</math>-graded vertex algebras</b>	344
Yi-Zhi Huang and Jinwei Yang	

*Continued on inside back cover*

The Guide for Authors appears online on the journal homepage at <http://www.elsevier.com/locate/jalgebra>



*Continued from outside back cover*

<b>Equivariant quantization of Poisson homogeneous spaces and Kostant's problem</b>	<b>362</b>
E. Karolinsky, A. Stolin, and V. Tarasov	
<b>A Strong Abhyankar–Moh Theorem and Criterion of Embedded Line</b>	<b>382</b>
Yansong Xu	
<b>Radical subgroups of the finite exceptional groups of Lie type <math>E_6</math></b>	<b>387</b>
Jianbei An, Heiko Dietrich, and Shih-Chang Huang	
<b>Stanley depths of certain Stanley–Reisner rings</b>	<b>430</b>
Zhongming Tang	
<b>Graph inverse semigroups: Their characterization and completion</b>	<b>444</b>
David G. Jones and Mark V. Lawson	
<i>Computational Section</i>	
<b>On the summability of bivariate rational functions</b>	<b>320</b>
Shaoshi Chen and Michael F. Singer	