



111
J80/ovl

Volume 408, June 15, 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	Shrawan Kumar	Aner Shalev
Luchezar L. Avramov	Kazuhiko Kurano	Ronald Solomon
Paul Balmer	Gus I. Lehrer	V. Srinivas
Eva Bayer-Fluckiger	Martin Liebeck	J.T. Stafford
Steven Dale Cutkosky	Gunter Malle	Gernot Stroth
Alberto Elduque	Volodymyr Mazorchuk	Bernd Ulrich
Dihua Jiang	Louis Rowen	Michel Van den Bergh
Masaki Kashiwara	Leonard L. Scott, Jr.	Changchang Xi
E.I. Khukhro	Vera Serganova	Efim Zelmanov

Section on Computational Algebra

Jon Carlson	William M. Kantor	Seth Sullivant
John Cremona	Reinhard Laubenbacher	Jean-Yves Thibon
Patrick Dehornoy	Emann O'Brien	
Derek Holt	Bruno Salvy	



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

On branching rules of depth-zero representations	1
Monica Nevins	
Colocalization and cotilting for commutative noetherian rings	28
Jan Trlifaj and Serap Şahinkaya	
Invertibility preservers on central simple algebras	42
Peter Šemrl	

Computational Section

On linear differential equations with reductive Galois group	63
Camilo Sanabria Malagón	
The homology of $SL_2(\mathbb{Z}[1/m])$ for small m	102
Bui Anh Tuan and Graham Ellis	
Clifford theory for association schemes II	109
Akihide Hanaki and Yasuaki Miyazaki	
Normal forms of random braids	115
Volker Gebhardt and Stephen Tawn	
Many toric ideals generated by quadratic binomials possess no quadratic Gröbner bases	138
Takayuki Hibi, Kenta Nishiyama, Hidefumi Ohsugi, and Akihiro Shikama	
Automorphism groups of hyperbolic lattices	147
Michael H. Mertens	
The construction of finite solvable groups revisited	166
Bettina Eick and Max Horn	
An intrinsic characterization of Picard–Vessiot extensions	183
Michael Wibmer	
Abundant p-singular elements in finite classical groups	189
Alice C. Niemeyer, Tomasz Popiel, and Cheryl E. Praeger	

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

Computing the extensions of preinjective and preprojective Kronecker modules	205
István Szöllősi	
PBW-deformations of quantum groups	222
Yongjun Xu and Shilin Yang	
<i>Erratum</i>	
Corrigendum to “On some sets of generators of finite groups” [J. Algebra 405 (2014) 122–134]	61
Jan Krempa and Agnieszka Stocka	