



# 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

Steven Dale Cutkosky

Alberto Elduque

Dihua Jiang

Masaki Kashiwara

E.I. Khukhro

Shrawan Kumar

Kazuhiko Kurano

Gus I. Lehrer

Martin Liebeck

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

Harm Derksen

Derek Holt

William M. Kantor

Reinhard Laubenbacher

Gunter Malle

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>Extension of a Schur theorem to groups with a central factor with a bounded section rank</b>	1
A. Ballester-Bolinchés, S. Camp-Mora, L.A. Kurdachenko, and J. Otal	
<b>Subintegrality, invertible modules and polynomial extensions</b>	16
Vivek Sadhu and Balwant Singh	
<b>Counterexamples to the <math>I^{(3)} \subset I^2</math> containment</b>	24
Marcin Dumnicki, Tomasz Szemberg, and Halszka Tutaj-Gasińska	
<b>Symmetry classes of tensors as group modules</b>	30
M.H. Jafari and A.R. Madadi	
<b>The diameter of the commuting graph of a finite group with trivial centre</b>	41
G.L. Morgan and C.W. Parker	
<b>Ext-quivers of hearts of <math>A</math>-type and the orientations of associahedrons</b>	60
Yu Qiu	
<b>Classification of quasifinite representations of a Lie algebra related to Block type</b>	71
Yucai Su, Chunguang Xia, and Ying Xu	
<b>The homotopy sequence of Nori's fundamental group</b>	79
Lei Zhang	
<b>Asymptotics of <math>H</math>-identities for associative algebras with an <math>H</math>-invariant radical</b>	92
A.S. Gordienko	
<b>Locally finite groups with finitely many isomorphism classes of derived subgroups</b>	102
Patrizia Longobardi, Mercede Maj, and Derek J.S. Robinson	
<b>Lie identities on enveloping algebras of restricted Lie superalgebras</b>	120
Hamid Usefi	
<b>On <math>m</math>-cluster tilted algebras and trivial extensions</b>	132
Elsa Fernández, Nilda Isabel Pratti, and Sonia Trepode	
<b>Proper resolutions and Gorenstein categories</b>	142
Zhaoyong Huang	
<b>The projective dimension of codimension two algebras presented by quadrics</b>	170
Craig Huneke, Paolo Mantero, Jason McCullough, and Alexandra Seceleanu	

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*

**Algorithms for linear groups of finite rank**

**187**

A.S. Detinko, D.L. Flannery, and E.A. O'Brien

**Quivers, invariants and quotient correspondence**

**197**

Yi Hu and Sangjib Kim