

## CONTENTS

Volume 196, no. 1 and no. 2

<b>William W. Adams and Philippe Loustaunau</b> , Analysis of the module determining the properties of regular functions of several quaternionic variables .....	1
<b>Guillermo Ames</b> , Fundamental solutions of invariant differential operators on a semisimple Lie group .....	17
<b>Hyongsick Bahn and Sungpyo Hong</b> , Isoperimetric inequalities for sectors on surfaces .....	257
<b>D.J. Benson and K.R. Goodearl</b> , Periodic flat modules, and flat modules for finite groups .....	45
<b>Bradley W. Brock and John M. Steinke</b> , Local restrictions on nonpositively curved $n$ -manifolds in $\mathbf{R}^{n+p}$ .....	271
<b>Nicholas P. Buchdahl</b> , Blowups and gauge fields .....	69
<b>Davide P. Cervone</b> , A tight polyhedral immersion in three-space of the real projective plane with one handle .....	113
<b>Andrea Cianchi</b> , A fully anisotropic Sobolev inequality .....	283
<b>J.B. Conrey, D.W. Farmer and P.J. Wallace</b> , Factoring Hecke polynomials modulo a prime .....	123
<b>A. Cueto-Hernández and G.D. Villa-Salvador</b> , Nilpotent extensions of number fields with bounded ramification .....	297
<b>Yves Dumont</b> , On the $\varepsilon$ -regularization of the mean curvature flow problem with Neumann condition .....	131
<b>Yun Fan and Burkhard Külshammer</b> , Group-graded rings and finite block theory .....	177
<b>Hany M. Farag</b> , Curvatures of the Melnikov type, Hausdorff dimension, rectifiability, and singular integrals on $\mathbf{R}^n$ .....	317
<b>Daniel R. Farkas, Edward L. Green and Eduardo N. Marcos</b> , Diagonalizable derivations of finite-dimensional algebras II .....	341
<b>Davide L. Ferrario</b> , Equivariant deformations of manifolds and real representations .....	353

<b>Terry Fuller</b> , Hyperelliptic Lefschetz fibrations and branched covering spaces .....	369
<b>David Futer, Andrei Gnepp, David McMath, Brian A. Munson, Ting Ng, Sang-Hyoun Park and Cara Yoder</b> , Cost-minimizing networks among immiscible fluids in $\mathbb{R}^2$ .....	395
<b>P. Gérardin and K.F. Lai</b> , Asymptotic behaviour of eigenfunctions on semi-homogeneous tree .....	415
<b>Luis Guijarro</b> , On the metric structure of open manifolds with nonnegative curvature .....	429
<b>Dan Haran and Moshe Jarden</b> , The absolute Galois group of $C(x)$ .....	445
<b>Rebecca A. Herb</b> , Stable discrete series characters as lifts from complex two-structure groups .....	187
<b>Fred Richman</b> , The fundamental theorem of algebra: A constructive development without choice .....	213
<b>K.S. Sarkaria</b> , Tverberg partitions and Borsuk-Ulam theorems .....	231
<b>G.P. Scott and G.A. Swarup</b> , An algebraic annulus theorem .....	461
<b>R. Sujatha and J. van Hamel</b> , Level and Witt groups of real Enriques surfaces .....	243
<b>Farshid Hajir</b> , Correction to “On a Theorem of Koch” .....	507
<b>Acknowledgements</b> .....	509