

DOCUMENTA MATHEMATICA
BAND 21, 2016

SEBASTIAN HERPEL AND DAVID I. STEWART ON THE SMOOTHNESS OF NORMALISERS, THE SUBALGEBRA STRUCTURE OF MODULAR LIE ALGEBRAS, AND THE COHOMOLOGY OF SMALL REPRESENTATIONS	1–37
BAPTISTE MORIN MILNE’S CORRECTING FACTOR AND DERIVED DE RHAM COHOMOLOGY	39–48
AMALENDU KRISHNA AND JINHYUN PARK ON ADDITIVE HIGHER CHOW GROUPS OF AFFINE SCHEMES	49–89
THOMAS GEISSER AND ALEXANDER SCHMIDT TAME CLASS FIELD THEORY FOR SINGULAR VARIETIES OVER ALGEBRAICALLY CLOSED FIELDS	91–123
SHUICHI HAYASHIDA LIFTING FROM TWO ELLIPTIC MODULAR FORMS TO SIEGEL MODULAR FORMS OF HALF-INTEGRAL WEIGHT OF EVEN DEGREE	125–196
MICHAEL LÖNNE AND MATTEO PENEGINI ON ASYMPTOTIC BOUNDS FOR THE NUMBER OF IRREDUCIBLE COMPONENTS OF THE MODULI SPACE OF SURFACES OF GENERAL TYPE II	197–204
AURÉLIEN DJAMENT, TEIMURAZ PIRASHVILI ET CHRISTINE VESPA COHOMOLOGIE DES FONCTEURS POLYNOMIAUX SUR LES GROUPES LIBRES	205–222
BRYDEN CAIS, TONG LIU ON F -CRYSTALLINE REPRESENTATIONS	223–270
A. CAMPILLO, F. DELGADO, AND S. M. GUSEIN-ZADE EQUIVARIANT POINCARÉ SERIES AND TOPOLOGY OF VALUATIONS	271–286
FRANK GOUNELAS FREE CURVES ON VARIETIES	287–308
SØREN EILERS, XIN LI, AND EFREN RUIZ THE ISOMORPHISM PROBLEM FOR SEMIGROUP C^* -ALGEBRAS OF RIGHT-ANGLED ARTIN MONOIDS	309–343
KAM-FAI TAM SOME ENDOSCOPIC PROPERTIES OF THE ESSENTIALLY TAME JACQUET-LANGLANDS CORRESPONDENCE	345–389
K. YAJIMA REMARKS ON L^p -BOUNDEDNESS OF WAVE OPERATORS FOR SCHRÖDINGER OPERATORS WITH THRESHOLD SINGULARITIES	391–443

GIULIO CODOGNI HYPERELLIPTIC SCHOTTKY PROBLEM AND STABLE MODULAR FORMS	445–466
BROOKS ROBERTS AND RALF SCHMIDT SOME RESULTS ON BESSEL FUNCTIONALS FOR $\mathrm{GSp}(4)$	467–553
DAVID BURNS, MASATO KURIHARA, AND TAKAMICHI SANO ON ZETA ELEMENTS FOR \mathbb{G}_m	555–626
B. KRÖTZ, E. SAYAG, H. SCHLICHTKRULL THE HARMONIC ANALYSIS OF LATTICE COUNTING ON REAL SPHERICAL SPACES	627–660
KIERAN G. O’GRADY DECOMPOSABLE CYCLES AND NOETHER-LEFSCHETZ LOCI	661–687
HOLGER DEPPE p -ADIC L-FUNCTIONS OF AUTOMORPHIC FORMS AND EXCEPTIONAL ZEROS	689–734
PAVLE V. M. BLAGOJEVIĆ, FLORIAN FRICK, ALBERT HAASE, GÜNTER M. ZIEGLER HYPERPLANE MASS PARTITIONS VIA RELATIVE EQUIVARIANT OBSTRUCTION THEORY	735–771
ZUR IZHAKIAN, MANFRED KNEBUSCH, LOUIS ROWEN QUADRATIC AND SYMMETRIC BILINEAR FORMS ON MODULES WITH UNIQUE BASE OVER A SEMIRING	773–808
CHARLES STARLING C^* -ALGEBRAS OF BOOLEAN INVERSE MONOIDS – TRACES AND INVARIANT MEANS	809–840
MICHAEL ANSHELEVICH, JOHN D. WILLIAMS OPERATOR-VALUED MONOTONE CONVOLUTION SEMIGROUPS AND AN EXTENSION OF THE BERCOVICI-PATA BIJECTION.	841–871
STEFFEN KIONKE, JEAN RAIMBAULT WITH AN APPENDIX BY NATHAN DUNFIELD ON GEOMETRIC ASPECTS OF DIFFUSE GROUPS	873–915
SKIP GARIBALDI AND HOLGER P. PETERSSON OUTER AUTOMORPHISMS OF ALGEBRAIC GROUPS AND A SKOLEM-NOETHER THEOREM FOR ALBERT ALGEBRAS	917–954
JULIEN BICHON GERSTENHABER-SCHACK AND HOCHSCHILD COHOMOLOGIES OF HOPF ALGEBRAS	955–986
DOMINIC ENDERS A CHARACTERIZATION OF SEMIPROJECTIVITY FOR SUBHOMOGENEOUS C^* -ALGEBRAS	987–1049
OWEN BIESEL, ALBERTO GIOIA A NEW DISCRIMINANT ALGEBRA CONSTRUCTION	1051–1088

ANDRÉ HENRIQUES, DAVID PENNEYS, AND JAMES TENER CATEGORIFIED TRACE FOR MODULE TENSOR CATEGORIES OVER BRAIDED TENSOR CATEGORIES	1089–1149
DAVID MÜLLER MINIMAX PRINCIPLES, HARDY-DIRAC INEQUALITIES, AND OPERATOR CORES FOR TWO AND THREE DIMENSIONAL COULOMB-DIRAC OPERATORS	1151–1169
TOBIAS KILDETOFT AND VOLODYMYR MAZORCHUK SPECIAL MODULES OVER POSITIVELY BASED ALGEBRAS	1171–1192
UFFE HAAGERUP ON THE UNIQUENESS OF THE INJECTIVE III_1 FACTOR	1193–1226
G. Z. ARONE, W. G. DWYER, K. LESH BREDON HOMOLOGY OF PARTITION COMPLEXES	1227–1268
MARCO BOGGI AND GED COROB COOK CONTINUOUS COHOMOLOGY AND HOMOLOGY OF PROFINITE GROUPS	1269–1312
E. ALDROVANDI AND N. RAMACHANDRAN CUP PRODUCTS, THE HEISENBERG GROUP, AND CODIMENSION TWO ALGEBRAIC CYCLES	1313–1344
KEI HAGIHARA STRUCTURE THEOREM OF KUMMER ETALE K -GROUP II	1345–1396
LUCIO GUERBEROFF PERIOD RELATIONS FOR AUTOMORPHIC FORMS ON UNITARY GROUPS AND CRITICAL VALUES OF L -FUNCTIONS	1397–1458
MICHAEL K. BROWN KNÖRRER PERIODICITY AND BOTT PERIODICITY	1459–1501
NIYAZ TOKMAGAMBETOV, BERIKBOL T. TOREBEK FRACTIONAL ANALOGUE OF STURM-LIOUVILLE OPERATOR	1503–1514
DANIEL CARO SYSTÈMES INDUCTIFS COHÉRENTS DE \mathcal{D} -MODULES ARITHMÉTIQUES LOGARITHMIQUES, STABILITÉ PAR OPÉRATIONS COHOMOLOGIQUES	1515–1606
JIANGWEI XUE, TSE-CHUNG YANG, AND CHIA-FU YU ON SUPERSPECIAL ABELIAN SURFACES OVER FINITE FIELDS	1607–1643
GEREON QUICK AN ABEL-JACOBI INVARIANT FOR COBORDANT CYCLES	1645–1668
TAKAO YAMAZAKI AND YIFAN YANG RATIONAL TORSION ON THE GENERALIZED JACOBIAN OF A MODULAR CURVE WITH CUSPIDAL MODULUS	1669–1690
JOHAN COMMELIN THE MUMFORD-TATE CONJECTURE FOR THE PRODUCT OF AN ABELIAN SURFACE AND A $K3$ SURFACE	1691–1713

