Contents

Preface ix

On Jacobians of curves with superelliptic components
Lubjana Beshaj, Tony Shaska, and Caleb Shor 1

Superelliptic surfaces as $p$-gonal surfaces
S. Allen Broughton 15

Exceptional automorphisms of (generalized) super elliptic surfaces
S. Allen Broughton and Aaron Wootton 29

Symmetric group actions on Jacobian varieties
Angel Carocca, Rubí E. Rodríguez, and Anita M. Rojas 43

Normal coverings of hyperelliptic real Riemann surfaces
Francisco-Javier Cirre and Rubén A. Hidalgo 59

Large group actions on surfaces
Marston D. E. Conder 77

Maximal bordered surface groups versus maximal handlebody groups
Marston D. E. Conder and Bruno P. Zimmermann 99

Maximal and non-maximal NEC and Fuchsian groups uniformizing Klein and Riemann surfaces
Antonio F. Costa, Milagros Izquierdo, and Ana M. Porto 107

On the minimum genus problem on bordered Klein surfaces for automorphisms of even order
José Javier Etayo and Ernesto Martínez 119

Computing adapted bases for conformal automorphism groups of Riemann surfaces
Jane Gilman 137

Fields of definition of uniform dessins on quasiplatonic surfaces
Ernesto Girondo, David Torres-Teigell, and Jürgen Wolfart 155

Surfaces as complete intersections
Vinicio Gómez Gutiérrez and Santiago López de Medrano 171

Conjugacy classes of symmetries of compact Kleinian 3-manifolds
Grzegorz Gromadzki and Rubén A. Hidalgo 181
Connectivity and dimension of the $p$-locus in moduli space
Grzegorz Gromadzki, Anthony Weaver, and Aaron Wootton

Free degree of periodic self-homeomorphisms of compact bordered orientable surfaces
Grzegorz Gromadzki and Xuezhi Zhao

$p$-adic origamis
Frank Herrlich

Regular dessins with a given automorphism group
Gareth A. Jones

Growth in Hecke groups
Martin Kreuzer and Gerhard Rosenberger

Some results on abelian groups of automorphisms of compact Riemann surfaces
Jesús Rodríguez

Abelian varieties and group actions
Rubí E. Rodríguez

The remarkable Accola-Maclachlan surfaces
David Singerman

Patterns in semigroups associated with combinatorial configurations
Klara Stokes and Maria Bras-Amorós

Computing equations, automorphisms and symmetries of Riemann surfaces
Peter Turbek