

## Contents

Preface	vii
Lower and upper bounds for some generalized arcs ALEXIS E. ALMENDRAS VALDEBENITO and ANDREA LUIGI TIRONI	1
Symmetries of order eight on K3 surfaces without high genus curves in the fixed locus DIMA AL TABBAA, ANNALISA GROSSI, and ALESSANDRA SARTI	17
A decomposition of the Jacobian of a Humbert-Edge curve ROBERT AUFFARTH, GIANCARLO LUCCHINI ARTECHE, and ANITA M. ROJAS	31
Connections on central extensions, lifting gerbes, and finite-dimensional obstruction vanishing INDRANIL BISWAS and MARKUS UPMEIER	39
Some algebraic and geometric properties of hyper-Kähler fourfold symmetries SAMUEL BOISSIÈRE, MARC NIEPER-WISSKIRCHEN, and KÉVIN TARI	57
On the existence of groups of automorphisms of compact Riemann and Klein surfaces E. BUJALANCE and F. J. CIRRE	71
Hyperbolic structures for Artin-Tits groups of spherical type MATTHIEU CALVEZ and BERT WIEST	83
Linear stability for line bundles over curves ABEL CASTORENA, E. C. MISTRETTA, and H. TORRES-LÓPEZ	99
The contribution of W. L. Edge to the study of Humbert's curves JUAN B. FRÍAS-MEDINA and ALEXIS G. ZAMORA	109
Deformations of noncompact Calabi-Yau manifolds, families and diamonds ELIZABETH GASPARIM and FRANCISCO RUBILAR	117
A brute force computer aided proof of an existence result about extremal hyperbolic surfaces ERNESTO GIRONDO and CRISTIAN REYES	133
Complex surfaces with mutually non-biholomorphic universal covers GABINO GONZÁLEZ-DIEZ and SEBASTIÁN REYES-CAROCCA	153

Hodge theory and moduli PHILLIP GRIFFITHS	163
Constructing Jacobian varieties with many elliptic curves RUBÉN A. HIDALGO	201
Weil's Galois descent theorem from a computational point of view RUBÉN A. HIDALGO and SEBASTIÁN REYES-CAROCCA	217
Subcovers of curves and moduli spaces ERNST KANI	229
Algebraic geometry and convolutional codes ÁNGEL LUIS MUÑOZ CASTAÑEDA and JOSÉ I. IGLESIAS-CURTO	251
Adelic and idelic pairings related to Weil reciprocity on algebraic curves LUIS MANUEL NAVAS VICENTE and FRANCISCO J. PLAZA MARTÍN	261
Remarks on the size of the Tamagawa product HECTOR PASTEN	277