

EXPERIMENTAL MATHEMATICS

VOLUME 16, NUMBER 4 2007

VOLUME 16, NUMBER 4

EXPERIMENTAL MATHEMATICS

2007

VOLUME 16, NUMBER 4 2007

Araçeli Bonifant, Marius Dabija, and John Milnor 385
Elliptic Curves as Attractors in P^2 , Part 1: Dynamics

D. Lehavi and C. Ritzenthaler 421
An Explicit Formula for the Arithmetic–Geometric Mean in Genus 3

B. Schratzberger 441
On the Singularization of the Two-Dimensional Jacobi–Perron Algorithm

R. Coulangeon, M. I. Icaza, and M. O’Ryan 455
Lenstra’s Constant and Extreme Forms in Number Fields

Roland K. W. Roeder 463
Constructing Hyperbolic Polyhedra Using Newton’s Method

Claus Fieker 493
Sparse Representation for Cyclotomic Fields

A. E. McCluskey, D. W. McIntyre, and W. S. Watson 501
The Propositional Theory of Closure

Cover art: The real Desboves map describing convergence to the Fermat curve. See page 401. (Bonifant et al.)



A K PETERS, LTD
888 Worcester St.
Suite 230
Wellesley, MA 02482
(781) 416-2888

PRSR STD
US POSTAGE
PAID
WELLESLEY, MA
PERMIT # 50394

Chief Editor

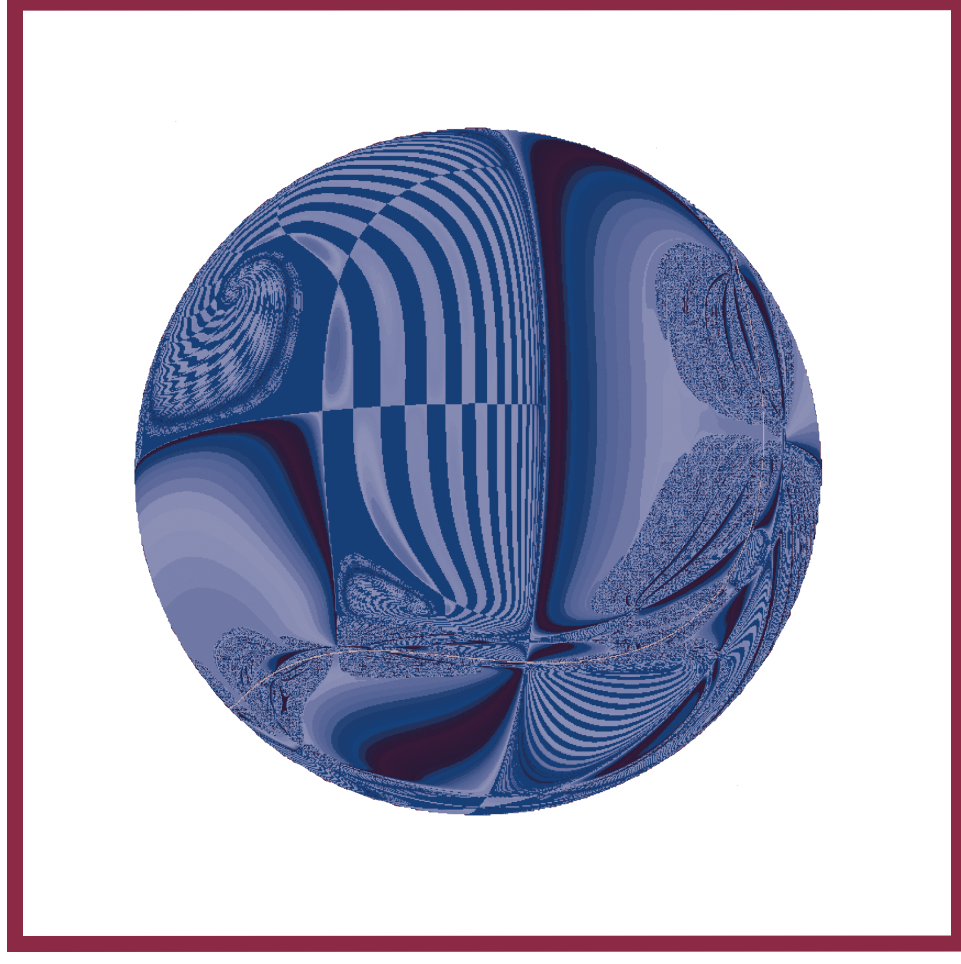
Rafael de la Llave

Founding Editor

D. B. A. Epstein

Associate Editors

Marcel Berger
Jonathan Borwein
Joe P. Buhler
Ronald L. Graham
John Guckenheimer
Derek Holt
Sadayoshi Kojima
Robert Kusner
Tan Lei
Hendrik W. Lenstra, Jr.
Albert Marden
David Mumford
Walter Neumann
Wilhelm Plesken
Michael Pohst
Peter C. Sarnak
Bernd Sturmfels
Jean Taylor
Roderick Wong



A K PETERS, LTD