

Nathan M. Dunfield, Sergei Gukov, and Jacob Rasmussen 129
The Superpolynomial for Knot Homologies

Richard Evan Schwartz 161
Obtuse Triangular Billiards I: Near the (2, 3, 6) Triangle

Tom Müller 183
Searching for Large Elite Primes

Andrew V. Sills and Doron Zeilberger 187
Disturbing the Dyson Conjecture (in a GOOD Way)

R. Sean Bowman and Stephen B. McCaul 193
Fast Searching for Andrews–Curtis Trivializations

Jim Ruffo, Yuval Sivan, Evgenia Soprunova, and Frank Sottile 199
Experimentation and Conjectures in the Real Schubert Calculus for Flag Manifolds

John H. Conway, Noam D. Elkies, and Jeremy L. Martin 223
The Mathieu Group M_{12} and Its Pseudogroup Extension M_{13}

Francesco Costantino 237
Complexity of 4-Manifolds

Keith Briggs 251
Abundant Numbers and the Riemann Hypothesis

Cover art: A secant line that meets the hyperboloid quadric surface Q in two complex conjugate points. See page 203. (Ruffo 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

EXPERIMENTAL MATHEMATICS

VOLUME 15, NUMBER 2 2006

Chief Editor

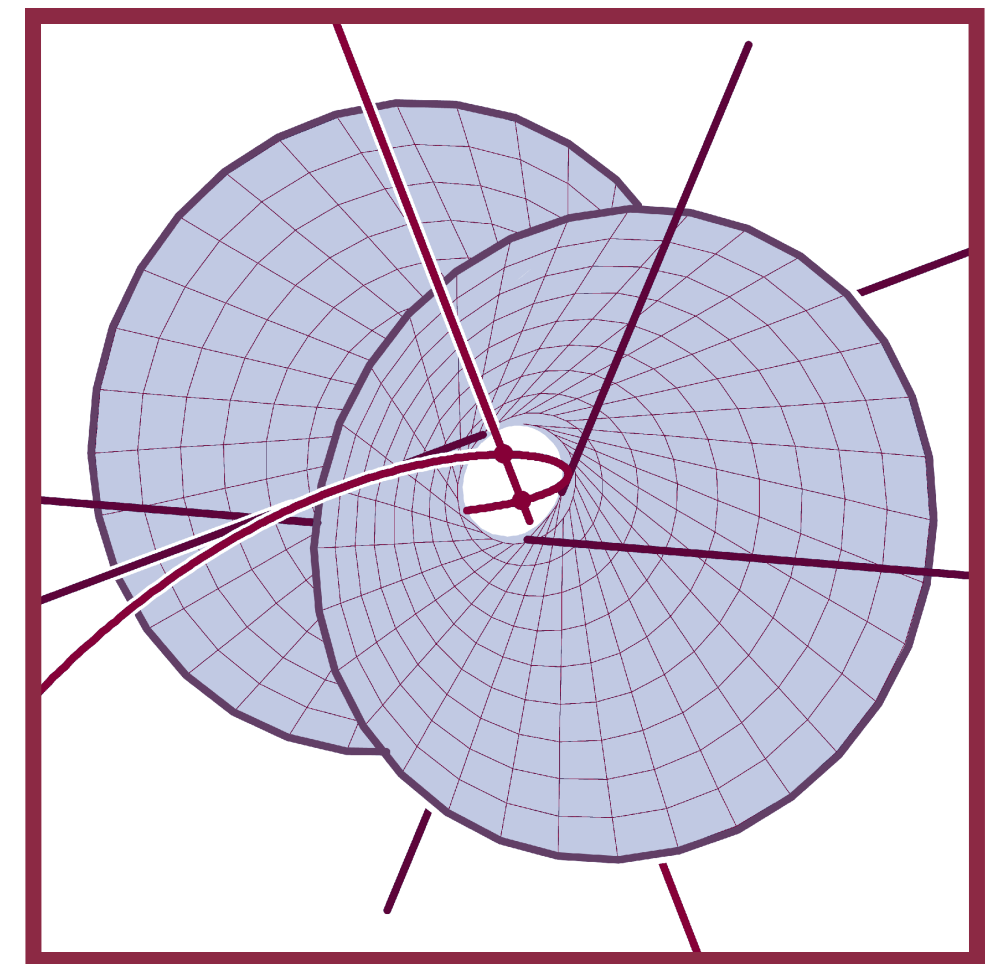
Rafael de la Llave

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