

Nandini Nilakantan 257

**Nonexistence of a Weakly Neighbourly Polyhedral Map of Type  $(6, 6)$**

Matthias Beck, David Einstein, and Shelemyahu Zacks 263

**Some Experimental Results on the Frobenius Problem**

Thomas Lewiner, Hélio Lopes, and Geovan Tavares 271

**Toward Optimality in Discrete Morse Theory**

Eric J. Rawdon 287

**Can Computers Discover Ideal Knots?**

István Gaál, István Járósi, and Florian Luca 303

**A Remark on Prime Divisors of Lengths of Sides of Heron Triangles**

C. Delaunay and S. Duquesne 311

**Numerical Investigations Related to the Derivatives of the  $L$ -Series of Certain Elliptic Curves**

Kazuhiro Hikami 319

**Volume Conjecture and Asymptotic Expansion of  $q$ -Series**

David Chopp and John A. Velling 339

**Foliations of Hyperbolic Space by Constant Mean Curvature Surfaces Sharing Ideal Boundary**

Irene Sabadini, Frank Sommen, and Daniele C. Struppa 351

**The Dirac Complex on Abstract Vector Variables: Megaforms**

Mikhail Khovanov 365

**Patterns in Knot Cohomology, I**

Frank Wikström 375

**Computing the Pluricomplex Green Function with Two Poles**

**Cover art:** Discrete gradient vector fields with geometric constraints. See page 282. (Lewiner et al.)



**A K PETERS, LTD**  
63 South Avenue  
Natick, MA 01760  
(508) 655-9933  
www.akpeters.com

PRSR STD  
US POSTAGE  
PAID  
WELLESLEY, MA  
PERMIT # 50394