

# Journal Of Differential Geometry

J. Cheeger & M. Gromov, <i>Bounds on the Von Neumann dimension of <math>L^2</math>-cohomology and the Gauss-Bonnet theorem for open manifolds</i>	1
J. Mitchell, <i>On Carnot-Carathéodory metrics</i>	35
G. Huisken, <i>Ricci deformation of the metric on a Riemannian manifold</i>	47
E. Gallego & A. Reventós, <i>Asymptotic behavior of convex sets in the hyperbolic plane</i>	63
M. Levine, <i>A remark on extremal Kähler metrics</i>	73
C.-L. Terng, <i>Isoparametric submanifolds and their Coxeter groups</i>	79
D. A. Hoffman & W. Meeks III, <i>A complete embedded minimal surface in <math>\mathbb{R}^3</math> with genus one and three ends</i>	109
V. Guillemin & A. Uribe, <i>Band asymptotics on line bundles over <math>S^2</math></i>	129
M. Futaki & S. Morita, <i>Invariant polynomials of the automorphism group of a compact complex manifold</i>	135
D. Gabai, <i>The simple loop conjecture</i>	143

# JOURNAL OF DIFFERENTIAL GEOMETRY

## Editors

PHILLIP A. GRIFFITHS  
Duke University  
Durham, North Carolina 27706

RICHARD M. SCHOEN  
University of California  
La Jolla, California 92093

C. C. HSIUNG  
Lehigh University  
Bethlehem, Pennsylvania 18015

Y. T. SIU  
Harvard University  
Cambridge, Massachusetts 02138

H. BLAINE LAWSON, JR.  
State University of New York  
Stony Brook, New York 11794

S. T. YAU  
University of California  
La Jolla, California 92093

## Associate Editors

MICHAEL M. FREEDMAN  
University of California  
La Jolla, California 92093

DAVID MUMFORD  
Harvard University  
Cambridge, Massachusetts 02138

RICHARD B. MELROSE  
Massachusetts Institute of Technology  
Cambridge, Massachusetts 02139

ROGER PENROSE  
University of Oxford  
Oxford, England OX1 3LB

DAVID RUELLE  
Institut des Hautes Études Scientifiques  
91440 Bur-Sur-Yvette, France

---

The Journal of Differential Geometry, published quarterly by Lehigh University in March, June, September and December, is devoted to the publication of research papers in differential geometry and related subjects such as differential equations, mathematical physics, algebraic geometry and geometric topology. It is the policy of the editorial board to publish papers within four to six months of acceptance.

The subscription price for Volumes 21–22 (1985) is \$180.00 list, \$40.00 for personal use of individuals; each volume consists of two numbers. Back number prices per volume (with a 25% reduction for members of the American Mathematical Society): Volumes 1–2 (1967–1968), \$21.00; Volumes 3–6 (1969–1972), \$27.00; Volumes 7–9 (1972–1974), \$36.00; Volume 10 (1975), \$45.00; Volume 11 (1976), \$52.00; Volume 12 (1977), \$60.00; Volumes 13–15 (1978–1980), \$63.00; Volume 16 (1981), \$72.00; Volume 17 (1982), \$78.00; Volumes 18–20 (1983–1984), \$120.00.

Subscriptions and orders should be addressed to the American Mathematical Society, P. O. Box 1571, Annex Station, Providence, Rhode Island 02901. *All orders must be accompanied by payment, and check should be made payable to the American Mathematical Society.* General correspondence and changes of address should be sent to the American Mathematical Society, P. O. Box 6248, Providence, Rhode Island 02940.

Instructions for submission of manuscripts are given inside of the back cover of this issue.