# Journal Of Differential Geometry

C. Olmos, Isoparametric submanifolds and their homoge-	
neous structures	225
F. T. Farrell & L. E. Jones, Nonuniform hyperbolic lattices	
and exotic smooth structures	235
L. Ji, Spectral degeneration of hyperbolic Riemann surfaces	263
M. Ramachandran, Von Neumann index theorems for man-	
ifolds with boundary	315
W. Wang, On the smooth compactification of Siegel spaces	351
M. Weiss, Pinching and concordance theory	387
T. Ilmanen, Convergence of the Allen-Cahn equation to	
Brakke's motion by mean curvature	417
N. B. Boyom, Erratum to "Sur les structures affines homo-	
topes à zéro des groupes de Lie"	463
Erratum to the Table of Contents to Volume 38, Number 1,	
July 1993	464

# JOURNAL OF DIFFERENTIAL GEOMETRY

## **Editors-in-Chief**

C. C. HSIUNG Lehigh University Bethlehem, PA 18015 S. T. YAU Harvard University Cambridge, MA 02138

### **Editors**

ROBERT L. BRYANT Duke University Durham, NC 27706

SIMON K. DONALDSON University of Oxford Oxford, England OX1 3LB H. BLAINE LAWSON, JR. State University of New York Stony Brook, NY 11794

RICHARD M. SCHOEN Stanford University Stanford, CA 94305

### Associate Editors

ENRICO ARBARELLO Universita degli Studi di Roma Universitadi Ple A. Moro 2 00185 Roma, ITALY

JEFF CHEEGER New York University New York, NY 10012 MICHAEL H. FREEDMAN University of California La Jolla, CA 92093

SHIGEFUMI MORI Faculty of Sciences Nagoya University Nagoya 464, JAPAN

ALAN WEINSTEIN University of California Berkeley, CA 94720

The Journal of Differential Geometry 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.

The subscription price for Vols. 37–38 (1993) is \$295.00 list, \$68.00 for personal use of individuals; each volume consists of three numbers. Back number prices per volume (with a 40% reduction for individual members and a 20% reduction for institutional members of the American Mathematical Society): Vols. 1-2 (1967–1968), \$23.00; Vols. 3-6 (1969–1971), \$29.00; Vols. 7-9 (1972–1974), \$39.00; Vol. 10 (1975), \$49.00; Vol. 11 (1976), \$57.00; Vol. 12 (1977), \$65.00; Vols. 13-15 (1978–1980), \$68.00; Vol. 16 (1981), \$79.00; Vol. 17 (1982), \$85.00; Vols. 18-20 (1983–1984), \$130.00; Vols. 21-22 (1985), \$147.00; Vols. 23-28 (1986–1988), \$155.00; Vols. 29-30 (1989), \$172.00; Vols. 31-32 (1990), \$182.00; Vols. 33-34 (1991), \$197.00; Vols. 35-36 (1992), \$203.00

Subscriptions and orders should be addressed to the American Mathematical Society, P.O. Box 1571, Annex Station, Providence, Rhode Island 02901-1571. 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 02940-6248.

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

Journal of Differential Geometry (ISSN 0022-040X) is published bimonthly in January, March, May, July, September and November by Lehigh University, Christmas-Saucon Hall 14, Bethlehem PA 18015-3175. Second Class Postage Rates paid at Bethlehem, PA and an additional mailing office. Postmaster: Send address changes to Journal of Differential Geometry, American Mathematical Society, P.O. Box 6248, Providence, RI 02940.

Copyright © 1993 Lehigh University. All rights reserved. ISSN 0022-040X

Printed in the United States of America.

The paper used in this issue is acid-free and falls within the guidelines established to ensure permanence and durability.