## **EDITORIAL BOARD**

Irwin Kra,

W. H. Jaco

managing editor

Gerald J. Janusz

Thomas F. Banchoff

Jan Mycielski

M. Salah Baouendi

Johannes C. C. Nitsche

Alan D. Weinstein

The AMS-IMS-SIAM Joint Summer Research Conference in the Mathematical Sciences on Current Trends in Arithmetical Algebraic Geometry was held at Humboldt State University, Arcata, California on August 18-24, 1985, with support from the National Science Foundation, Grant DMS-8415201.

2000 Mathematics Subject Classification. Primary 11Gxx, 14Fxx, 19Exx, 32Hxx.

## Library of Congress Cataloging-In-Publication Data

"AMS-IMS-SIAM Joint Summer Research Conference in the Mathematical Sciences on Current Trends in Arithmetical Algebraic Geometry was held at Humboldt State University"-T.p. verso.

(Contemporary mathematics, ISSN 0271-4132; v. 67) Bibliography: p.

1. Arithmetical algebraic geometry—Congresses. I. Ribet, Kenneth. II. AMS-IMS-SIAM Joint Summer Research Conference in the Mathematical Sciences on Current Trends in Arithmetical Algebraic Geometry (1985: Humboldt State University) III. Series: Contemporary mathematics (American Mathematical Society); v. 67.

QA242.5.C87 1987 516.3<sup>'</sup>5

ISBN 0-8218-5070-1 (alk. paper)

87-11506

Copying and reprinting. Individual readers of this publication, and nonprofit libraries acting for them, are permitted to make fair use of the material, such as to copy a chapter for use in teaching or research. Permission is granted to quote brief passages from this publication in reviews, provided the customary acknowledgment of the source is given.

Republication, systematic copying, or multiple reproduction of any material in this publication (including abstracts) is permitted only under license from the American Mathematical Society. Requests for such permission should be addressed to the Assistant Director of Production, American Mathematical Society, P.O. Box 6248, Providence, Rhode Island 02940-6248. Requests can also be made by e-mail to reprint-permission@math.ams.org.

Copyright ©1987 by the American Mathematical Society. All rights reserved. The American Mathematical Society retains all rights except those granted to the United States Government.

Printed in the United States of America. This volume was printed directly from author-prepared copy. The paper used in this book is acid-free and falls within the guidelines established to ensure permanence and durability. (a)

Visit the AMS home page at URL: http://www.ams.org/

10 9 8 7 6 5 4 3 04 03 02 01 00