# Mathematical Physics

#### Volume 153 Number 3 1993

Z. Sun, G. Uhlmann Recovery of Singularities for Formally

Determined Inverse Problems 431

J. Kalkman BRST Model for Equivariant Cohomology

and Representatives for the Equivariant Thom Class 447

A. Soshnikov Difference Almost-Periodic Schrödinger Operators:

Corollaries of Localization 465

S. Kamvissis On the Long Time Behavior of the Doubly Infinite

Toda Lattice under Initial Data Decaying at Infinity 479

P. Kirk, E. Klassen Chern-Simons Invariants of 3-Manifolds

Decomposed along Tori and the Circle Bundle

Over the Representation Space of T<sup>2</sup> 521

V. A. Chulaevsky, Methods of KAM-Theory for Long-Range Quasi-Periodic

E. I. Dinaburg Operators on Z'. Pure Point Spectrum 559

J. Erler, A. Klemm Comment on the Generation Number

in Orbifold Compactifications 579

A. M. Khorunzhy, L. A. Pastur Limits of Infinite Interaction Radius,

Dimensionality and the Number of Components

for Random Operators with Off-Diagonal Randomness 605

Contents of Volume 153

Indexed in Current Contents

Evaluated and abstracted for PHYS on STN

CMPHAY 153 (3) 431-646

May (I) 1993

Printed on acid-free paper



Springer International

### Arte Information

Archive for Mathematical Logic

# Communications in Mathematical Physics

Economic Theory Inventiones mathematicae

Journal of
Mathematical Biology
Mathematische Annalen
Mathematische Zeitschrift
Numerische Mathematik
Probability Theory

and Related Fields
Theoretica Chimica Acta
Acta Informatica

Archive for Mathematical Logic

Communications in Mathematical Physics Economic Theory

Inventiones mathematicae
Journal of
Mathematical Biology
Mathematische Annalen
Mathematische Zeitschrift

## T<sub>E</sub>X users do it with Springer macros

If you are used to preparing your manuscripts with plain-T<sub>E</sub>X, you may be interested to hear that we have created a macro package for the layout of the journals listed here.

Articles may now be submitted as plain- $T_EX$  files using our macros. They will be phototypeset directly from your  $T_EX$ -file, thus cutting down proofreading and publishing times.

The macros plus AMS fonts are available on 3.5" DOS diskettes and are free of charge.

Please order your copy by writing to



Springer-Verlag Journal Production Post Box 10 52 80 W-6900 Heidelberg, FRG

e-mail: Springer @dhdspri6.bitnet

An e-mail to svserv@dhdspri6 containing help will provide you with info on our **mailserver** 

Please do not forget to indicate the journal for which you are intending to submit your manuscript.

LATEX stylefiles are in preparation.

# Springer-Verlag and the environment

We at Springer-Verlag firmly believe that an international science publisher has a special obligation to the environment, and our corporate policies consistently reflect this conviction.

We also expect our business partners – paper mills, printers, packaging manufacturers, etc. – to commit themselves to using environmentally friendly materials and production processes.

The paper in this journal is made from low- or no-chlorine pulp and is acid free, in conformance with international standards for paper permanency.

## Why not take a CHANCE?!



New Directions for Statistics and Computing – the entertaining side of statistics!



#### ORDER FORM

2020 N	
□ Please bill me	Chance ISSN 0933-2480 Title No. 144
□ Please charge my credit card □ Eurocard/Access/MasterCard	☐ Please enter my subscription beginning with 1993: Volume 6 (4 issues) US \$ 53.60 (suggested list price) plus carriage charges. FRG US \$ 12.34, other countries US \$ 16.28
☐ American Express ☐ Visa/Barclaycard/BankAmericard	☐ Please send me a free sample copy
□ Diners Club	Name/Address
Number:	
Valid until:	Date: Signature:
Please hand this order form to your bookseller or return to. Springer-Verlag, Marketing Communication, Tiergartenstr. 17, W-6900 Heidelberg, FRG	Please note: I realize that I may cancel subscriptions within ten days by writing to the address on the order form, whereby the postmark date will suffice as proof that the cancellation was made within the deadline   Lonfirm my understanding of this with my second signature  2nd Signature: