TABLE OF CONTENTS

VOLUME LXXXVII

Dedicated to the memory of Thomas H. Wolff

Preface 1

Introduction 3

CHRISTOPHER J. BISHOP AND PETER W. JONES — Compact deformations of Fuchsian groups 5

J. BOURGAIN — On the spectrum of lattice Schrödinger operators with deterministic potential 37

JEAN BOURGAIN, HAÏM BREZIS AND PETRU MIRONESCU — Limiting embedding theorems for $W^{s,p}$ when $s\uparrow 1$ and applications 77

L. CARLESON AND N. MAKAROV — Laplacian path models 103

SUN-YUNG A. CHANG, MATTHEW J. GURSKY AND PAUL YANG — An a priori estimate for a fully nonlinear equation on four-manifolds 151

MICHAEL CHRIST AND M. BURAK ERDOĞAN — Mixed norm estimates for a restricted X-ray transform 187

DIRK HUNDERTMARK AND BARRY SIMON — An optimal L^p-bound on the Krein spectral shift function 199

ALEXANDER IOSEVICH, ERIC SAWYER AND ANDREAS SEEGER — Mean square discrepancy bounds for the number of lattice points in large convex bodies 209

NETS HAWK KATZ AND TERENCE TAO — New bounds for Kakeya problems 231

MARKUS KEEL, HART F. SMITH AND CHRISTOPHER D. SOGGE — Almost global existence for some semilinear wave equations 265

CARLOS E. KENIG AND FRANK MERLE — A Liouville theorem for the viscous Burgers's equation 281

SERGIU KLAINERMAN, IGOR RODNIANSKI AND TERENCE TAO — A physical space approach to wave function bilinear estimates 299

ELON LINDENSTRAUSS, YUVAL PERES AND WILHELM SCHLAG Bernoulli convolutions and an intermediate value theorem for entropies of K-partitions 337

CAMIL MUSCALU, TERENCE TAO AND CHRISTOPH THIELE — Uniform estimates on paraproducts 369

F. NAZAROV AND A. VOLBERG — The Bellman function, the two-weight Hilbert transform, and embeddings of the model spaces K_θ 385

NIKOLAI NIKOLSKI AND SERGEI TREIL — Linear resolvent growth of rank one perturbation of a unitary operator does not imply its similarity to a normal operator 415

DONALD SARASON AND JORGE-NUNO O. SILVA — Composition operators on a local Dirichlet space 433

ELIAS M. STEIN AND STEPHEN WAINGER — Two discrete fractional integral operators revisited 451

S. TREIL — Estimates in the Corona Theorem and ideals of H^∞: A problem of T. Wolff 481