

## Description

This year, the XII th International Congress of Mathematical Physics was held in July, 1997 at University of Queensland in Brisbane with over 340 participants. Recent developments across the whole spectrum of mathematical physics were described in 13 plenary lectures, 35 shorter invited talks, 107 contributed talks, and 79 posters. ICMP 97 includes talks from different authors including the followings:

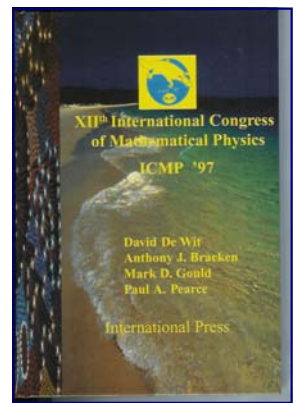
H. Araki, V. Bach, R. Bartnik, R.J. Baxter, V.V. Bazhanov, A.I. Bobenko, R. Brunetti, D. Bucholz, V. Buslaev, A.L. Carey, R. Donagi, A. Fedotov, J. Feldman, S. Ferrara, P.J. Forrester, K. Fredenhagen, J. Frohlich, G. Gallavotti, B. Greene, G. Hooft, A. Joye, V.G. Kac, N.P. Landsman, M. Loss, M. Mezard, J. Mickelsson, M.K. Murray, G. Mussardo, C.M. Newman, P. Pearce, C-E. Pfister, C.-A. Pillet, J. Quastel, M. Salmhofer, B. D. Simons, D.L. Stein, C. Sutherland, L. Takhtajan, E. Truowitz, K.P. Tod, H.T. Yau, S.T. Yau, S. Zelditch, M.R. Zirnbauer and A.B. Zmolodchikov.

## XII International Congress of Mathematical Physics—1997

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1. Plenary Talks
2. Disordered Systems
3. General Quantum Field Theory
4. General Relativity and String Theory
5. Integrable Models
6. Operator Algebras
7. Quantum Chaos and the Semiclassical Limit
8. Quantum Mechanics
9. Statistical Hydrodynamics
10. Statistical Mechanics

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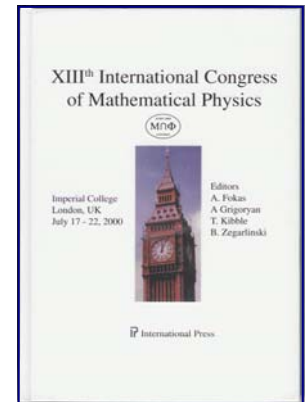
In 2000, the XIIIth International Congress of Mathematical Physics took place in London. The conference covered the whole range of traditional mathematical physics, but also, for the first time, included sessions on Biophysics, Quantum Information and Computing. One very important innovation and unique feature of this conference was a parallel satellite, called the Young Researchers' Symposium, which proved to be extremely popular.

The symposium included invited talks by A. Ashtekar, P. Bak, A. Ekert, L. Faddeev, G. Hooft, G. Jona-Lasinio, J.P. Keating, R. Kotecky, S.A. Levin and others. There was also an excellent series of Public Lectures, given by M. Atiyah, A. Connes and D. Ruelle. This book documents a large number of talks including those by R.H. Dijkgraaf, G. Friesecke, G. Huisken, E. Lieb, M. Lyubich, S. Donaldson, Y. Brenier and other distinguished mathematicians and physicists.

## XIII International Congress of Mathematical Physics—2000

## Table of Contents

1. Plenary Talks
2. Invited Session Talks
3. Condensed Matter Physics
4. Dynamical Systems
5. Equilibrium Statistical Mechanics
6. General Relativity
7. Nonequilibrium Statistical Mechanics
8. Nonlinear PDE's and Fluid Dynamics
9. Operator Algebras and Noncommutative Geometry
10. Quantum Chaos and Semiclassical Approximations
11. Quantum Field Theory
12. Quantum Information and Computation
13. Quantum Mechanics and Spectral Theory
14. String Theory, M Theory and Duality



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