



## CONTENTS

	Page
List of participants.....	VII
G. F. DELL'ANTONIO, S. FANTONI and V. R. MANFREDI - Preface.....	XI
G. BENETTIN - Adiabatic invariants and classical analog of quantum "freezing" of fast degrees of freedom.....	1
T. PAUL and A. URIBE - Periodic orbits and quantum me- chanics.....	7
S. GRAFFI - Quantum periodicity and classical stochast- icity: the case of the Arnold cat.....	27
M. DEGLI ESPOSTI - The Wigner function of the quantum Arnold cat.....	35
C. GROSCHÉ - Selberg trace formulae in mathematical phy- sics.....	45
P. CVITANOVIC and P. E. ROSENQVIST - A new determinant for quantum chaos.....	57
R. ARTUSO and G. CASATI - Thermodynamic formalism of quasienergy spectra.....	65
F. FAURE and P. LEBOEUF - Structure of wave functions on the torus characterized by a topological Chern index..	75
M. BALDO, M. CARBONARO and A. RAPISARDA - Classical chaos induced by the spin-orbital coupling. From the solar system to nuclear systems.....	99
L. DEMATTE', V. R. MANFREDI and L. SALASNICH - The on- set of chaos in the SU(3) nuclear model.....	111

A. ZIAR and F. BRUT - Lyapunov exponents, information dimensions and chaotic volume in the axially deformed nuclear mean field.....	123
M. BALDO, E. G. LANZA and A. RAPISARDA - Quantum chaos in heavy-ion collisions.....	135
M. K. KOLEVA - Non-instantaneous equations and self-sustained oscillations in open catalytical systems and adsorption-desorption process.....	147
References.....	153

