

Program of the Quantum Chaos Meeting

65th Statistical Mechanics Meeting, Rutgers University

May 15–16, 1991

Quantum Manifestations of Classical Order and Chaos

J. Delos, William and Mary

Quantum Images of Hamiltonian Chaos

G. Muller, University of Rhode Island

Quantum Qualitative Dynamics

C. Martens, University of California, Irvine

Quantum Localization on Classical Periodic Orbits: Quantization and Statistics

D. Meridith, University of New Hampshire

Quasienergies and Eigenfunctions of Periodic Hamiltonians

J. Jose, Northeastern University

Quantum Dynamics of a Kicked Morse Oscillator

J. Heagy, Naval Surface Warfare Center

Properties of Quantum Systems with Time Dependent Forces

H. Jauslin, Rutgers University

Statistics of Levels for Integrable Quantum Systems

Z. Cheng, Rutgers University

Experiments in a Classically Chaotic Driven Quantum System

P. Koch, Stony Brook

Driven Bound Electrons with Microwave Noise

J. Bayfield, University of Pittsburg

Quantum Chaos in Dielectric Response in Plasmas

B. West, University of North Texas

Quantum Chaos in Chemical Reactions

R. Skodje, University of Colorado

Where is Quantum Chaos

Richard Prange, University of Maryland

Periodic Orbits and Correlations in Doubly Excited States of 2-Electron Systems

G. Ezra, Cornell University

Inhibition of Quantum Transport Due to “Scars” of Unstable Periodic Orbits

R. Jensen, Yale University

Negative Probabilities in the Quantum–Classical Correspondence for the H Atom

M. Nauenberg, University of California, Santa Cruz

Optical Frequency Localization in Atoms: A New Possibility

D. Meyerhofer, University of Rochester

Chaos and Quantum Mechanics: An Experimental Perspective

Daniel Klepper, MIT

Energy Levels in Quantum Systems with Integrable Classical Counterpart

P. Blekher, Tel Aviv

Statistics of Quantum Levels and Thermodynamics of Mesoscopic Systems

Boris Altshuler, MIT

Interference Phenomena and Quantum Transport in Mesoscopic Structures

Laurent P. Levy, Bell Labs

Statistical Mechanics of Two-Level System Interacting with Dielectric Continuum

A. Helman, T. Keyes, Boston University

Semiclassical Mechanics of Particles With Spin

Robert G. Littlejohn, University of California, Berkeley

Quantum Properties of an Oscillating Disk

R. Badrinaravan and J. V. Jose, Northeastern University

Classical and Quantum Correspondence in the Fermi Acceleration Model

G. Chu and J. V. Jose, Northeastern University

Experimental Observation of Scarred Eigenfunctions of Chaotic Microwave Cavity

S. Sridhar, Northeastern University

Effects of Quantum Fluctuation in Classical Chaos

J. M. Yuan, W. M. Zhang and D. H. Feng, Drexel University

Analysis of Chaotic Scattering in Simple Models

D. M. Wardlaw, Queens University

Universal Double Periodicity of Aharonov–Bohm Effect Without Ensemble Averaging and Quantum Resistor Network Theory

C. H. Wu, University of Missouri—Rolla, and G. Mahler, University of Stuttgart, Germany

Ionized vs Bound Electrons in a Dense System

Nicolas Macris, Rutgers

Roundtable on Classical Randomness, Quantum Chaos, and the Real World

B. Altshuler; MIT, N. Balazs; Stony Brook, F. Dyson; IAS, M. Gutzwiller; IBM, S. Goldstein; Rutgers, R. Prange; Maryland