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THE SIXTH ROCHESTER CONFERENCE ON
COHERENCE AND QUANTUM OPTICS

J.H. EBERLY, L. MANDEL AND E. WOLF
PRINCIPAL INVESTIGATORS

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FINAL REPORT

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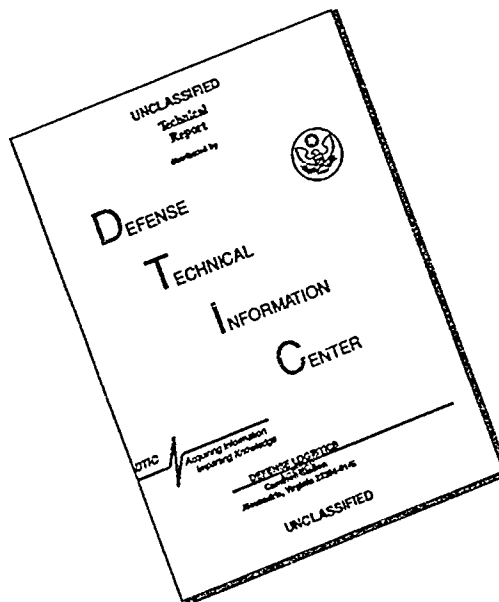
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THE UNIVERSITY OF ROCHESTER
DEPARTMENT OF PHYSICS AND ASTRONOMY
ROCHESTER , NEW YORK

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13. ABSTRACT (Maximum 200 words) The Sixth Rochester Conference on Coherence and Quantum Optics was held on the campus of the University of Rochester during June 26-28, 1989. There were 396 registrants from 26 countries. 252 scientific papers, including 31 invited papers, were presented at 45 different sessions, and there were also 22 poster papers. The full scientific report on the Conference is in the form of a book of Proceedings, published by Plenum, New York, under the title Coherence and Quantum Optics VI, edited by the three principal investigators. This report is therefore in the form of a brief summary.				
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Abstract

The Sixth Rochester Conference on Coherence and Quantum Optics was held on the campus of the University of Rochester during June 26-28, 1989. There were 396 registrants from 26 countries. 252 scientific papers, including 31 invited papers, were presented at 45 different sessions, and there were also 22 poster papers. The full scientific report on the Conference is in the form of a book of Proceedings, published by Plenum under the title Coherence and Quantum Optics VI, edited by the three principal investigators. This report is therefore in the form of a brief summary.

1. Introduction

This is the Final Report on the Sixth Rochester Conference on Coherence and Quantum Optics, which was held on the campus of the University of Rochester during June 26-28, 1989, and was sponsored by the Air Force Office of Scientific Research, by the Optical Society of America, by the American Physical Society and by the University of Rochester.

The popularity of this series of Conferences is indicated by the number of participants, which has grown steadily over the years. The Sixth Conference was the largest. There were 396 registrants from 26 countries. 252 scientific papers, including 31 invited papers and 7 postdeadline papers were presented, which required 45 separate sessions. In addition, there were 22 poster papers.

The Conference reception and dinner were held on the evening of June 27, 1989, with Professor Peter Franken of the University of Arizona as the featured after-dinner speaker.

The full technical report on the Conference is contained in the Proceedings of the Conference, edited by J.H. Eberly, L. Mandel and E. Wolf, which have just been published by Plenum, under the title Coherence and Quantum Optics VI. This book is 1328 + xix pages long. It was meant to have appeared in 1989, but the publisher experienced delays. Copies of the book will be submitted as soon as we receive them.

This report is therefore in the form of a brief summary. The Conference Program is attached as Appendix A, and a list of registrants forms Appendix B.

2. Brief Review

The Conference was organized with the help of a Program Committee consisting of the following:

F.T. Arecchi (Istit. Naz. d'Ott., Firenze)

N. Bloembergen (Harvard U.)

C. Cohen-Tannoudji (Ecole Normale Supérieure)

H. Haken (U. Stuttgart)

S. Haroche (Yale and Ecole Normale Supérieure)

A.L. Schawlow (Stanford U.)

C.R. Stroud (U. of Rochester)

D.F. Walls (U. of Auckland)

H. Walther (Max-Planck-Inst. and U. Munchen)

J.H. Eberly

L. Mandel

E. Wolf

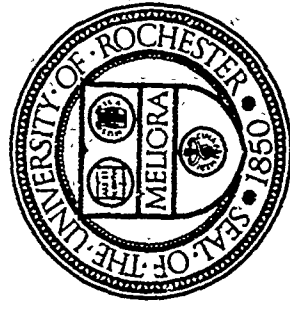
} Joint Secretaries (U. of Rochester)

Among the topics that generated particularly great interest were Quantum Interference, Squeezing and Noise Reduction, Atom Trapping and Cooling, Instabilities and Chaos, Atom-Field Interactions, and Fundamental Tests of Quantum Mechanics. Some of these took up four or five different sessions.



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University of Rochester
Department of Physics & Astronomy



Sixth Rochester Conference on

Coherence and Quantum Optics

June 26-28, 1989

Program

PROGRAM COMMITTEE

F.T. Arecchi (Istit. Naz. d'Ott., Firenze)
N. Bloembergen (Harvard U.)
C. Cohen-Tannoudji (École Normale Supérieure)
H. Haken (U. Stuttgart)
S. Haroche (Yale and École Normale Supérieure)
A.L. Schawlow (Stanford U.)
C.R. Stroud, Jr. (U. of Rochester)
D.F. Walls (U. of Auckland)
H. Walther (Max-Planck-Inst. and U. München)
J.H. Eberly } Joint Secretaries (U. of Rochester)
L. Mandel }
E. Wolf }

Each conference session is identified by a three-letter code, of which the first capital letter signifies the day (Monday, Tuesday, Wednesday), the second capital letter signifies the auditorium (A Hubble, B Lander, C Hoyt, D Lattimore 201), and the third lower case letter designates the quarter of the day (a first, b second, c third, d fourth) in which the session is held.

Invited papers are indicated by *.

There will be a post-deadline session WDd on Wednesday afternoon. A poster session will be held in the May Room of Wilson Commons from 10:30 a.m. to 4:00 p.m. Wednesday.

The Conference Reception and Dinner are scheduled for Tuesday evening. Reception 6:45 p.m., Dinner 7:30 p.m.

A movie entitled "A Fish Called Wanda" will be shown on Monday evening at 8:00 p.m. in the Hubble Auditorium.

Sponsored by the Air Force Office of Scientific Research
the Optical Society of America
the American Physical Society
the University of Rochester

MONDAY, JUNE 26, 1989

LATTIMORE 201

HOYT HALL

LANDER

HUBBLE

OPENING SESSION

8:30 a.m.

Welcoming Remarks

DENNIS O'BRIEN, President
University of Rochester

MAa

QUANTUM INTERFERENCE

MBa

PHASE OF LIGHT

Chairman: B.J. THOMPSON

Chairman: R.J. GLAUBER

9:00 a.m.

MAa1 *RODNEY LOUDON (Essex U.)

"Spatially Localized One- and Two-Photon
Interference"

MBa1 *R. CHIAO (U.C., Berkeley)

"Optical
Manifestations of Berry's Topological
Phase: Classical and Quantum Aspects"

9:15 a.m.

9:30 a.m.

MAa2 *DAVID W. KEITH, M.L. SCHATTEBURG,

HENRY I. SMITH and DAVID E. PRITCHARD
(MIT) "Diffraction Gratings for Atom
Interferometers"

MBa2 R. SIMON (C.I.T., Madras)

"Geometric
Phases in Optics: Some Pedestrian
Considerations"

9:45 a.m.

MBa3 CHRISTOPHER C. GERRY (St. Bonavent-

ture U.) "Manifestation of Berry's Phase in
Parametric Amplifiers"

10:00 a.m.

MAa3 A. ten WOLDE, L.D. NOORDAM, H.G.

MULLER, A. LAGENDIJK and H.B. van LINDEN
van den HEUVELL (FOM Inst., Amsterdam)
"Observation of Electronic Wave Packets"

MBa4 S.M. BARNETT (Oxford U.), D.T. PEGG

and J.A. VACCARO (Griffith U.)
"Applications of the Optical Phase Operator"

10:15 a.m.

MAa4 JOHN A. YEAZELL, MARK MALLALIEU

and C.R. STROUD, Jr. (U. Rochester)
"The Production and Detection of Spatially
Localized Atomic Electron Wave Packets"

MBa5 AHMET ELCI (U. New Mexico)

"Coherent Scattering of Light in an
Aharonov-Bohm Geometry"

10:30 a.m.

COFFEE BREAK

MONDAY, JUNE 26, 1989

HUBBLE			LANDER		HOYT HALL		LATTIMORE 201	
MAB	LASERS I	MBb	SQUEEZING AND NOISE REDUCTION I	MCb	CAVITY QED I	MDb	ATOM TRAPPING AND COOLING I	
	Chairman: H. RISKEN		Chairman: R.E. SLUSHER		Chairman: H. WALTHER		Chairman: S. STENHOLM	
1:00 a.m.	MAB1 *M.O. SCULLY (U. New Mexico and Max-Planck Inst.) and M.S. ZUBAIRY (Quad-I-Azam U.) "Theory of the Correlated Spontaneous Emission Laser"	MBb1 *C.W. GARDINER, A.S. PARKINS (U. Waikato), A.S. LANE (U. Southern California) and D.F. WALLS (U. Auckland) "Atoms and Squeezed Light"			MCb1 *H.J. KIMBLE, M.G. RAIZEN, R.J. BRECHA, H.J. CARMICHAEL, Y. SHEVY and R.J. THOMPSON (Cal. Tech.) "Dissipative Quantum Dynamics in Cavity Quantum Electrodynamics"		MDb1 *J. DALIBARD (École Normale Supérieure) "The Limits of Laser Cooling"	
1:15 a.m.								
1:30 a.m.	MAB2 NING LU, SHI-YAO ZHU, G.S. AGARWAL (U. New Mexico) "Comparative Study of Various Quasi-Probability Distributions in Different Models of Correlated-Emission Lasers"	MBb2 *P.L. KNIGHT (Imperial College) "The Interaction of Squeezed Light with Atoms"			MCb2 B.J. HUGHEY, T.R. GENTILE, D. KLEPPER (MIT) and T. DUCAS (Wellesley College) "Atom-Photon Interaction Modified by a Microwave Cavity"		MDb2 P.D. LETT, C.I. WESTBROOK, R.N. WATTS, S.L. ROLSTON, C.E. TANNER, W.D. PHILLIPS (NIST, Gaithersburg), P.L. GOULD (U. Connecticut), H.J. METCALF (SUNY, Stony Brook) "Multilevel Atoms: Cooling below the Doppler Limit"	
1:45 a.m.	MAB3 MARLAN O. SCULLY, SHI-YAO ZHU (U. New Mexico) and ATHANASIOS GAVRIELIDES (Kirtland AFB) "The Degenerate Quantum Beat Laser: Lasing without Inversion"				MCb3 F. De MARTINI, M. MARROCCO and D. MURRA (U. Roma) "Strong Photon-Localization in Microcavity Stimulated-Emission"		MDb3 J. JAVANAINEN and P.L. GOULD (U. Connecticut) "Rectification of the Light Pressure Force Acting on a Three-State Atom"	
2:00 Noon	MAB4 R.J. DALTON (U. Queensland) "Correlated Emission Laser: Coherent Optical Pumping in Three Level Vee Systems Coupled to Two Cavity Modes"	MBb3 K. WODKIEWICZ (Warsaw: I.) and A. ORLOWSKI (SGGW-AR, Warsaw) "On the Phase-Space Approach to Squeezed Phenomena in Quantum Optics"			MCb4 N. NAYAK, R.K. BULLOUGH, B.V. THOMPSON and G.S. AGARWAL (JUMIST) "Exact Quantum Theory of a Rydberg Atom in Cavities of Arbitrary Q at Finite Temperature T, and the ⁸⁵ Rb Atom Maser"		MDb4 R. GRIMM and J. MLYNEK (ETH, Zürich) "Resonant Light Pressure in Gases: Modifications of Absorption and Dispersion Profiles"	
2:15 p.m.	MAB5 N.B. ABRAHAM and D.E. CHYBA (Bryn Mawr) "Emission Frequency of a Homogeneously Broadened Laser Operating below Threshold"	MBb4 ARTUR K. EKERT (Oxford U.) and PETER L. KNIGHT (Imperial College) "The Wigner Function of Two-Mode Squeezed States; Free and Dissipative Evolution"			MCb5 JAKUB ZAKRZEWSKI and TOMASZ DOHNALIK (Jagellonian U.) "Hanle Type Resonances in Frequency Dependent Photon Reservoirs"		MDb5 M.C. de LIGNIE and E.R. ELIEL (U. Leiden) "Coherence Effects in Light-Induced Drift"	
2:30 p.m.	MAB6 NING LU and SHI-YAO ZHU (U. New Mexico) "Quantum Theory of Two-Photon Correlated-Spontaneous-Emission Lasers: Exact Atom-Field Interaction Hamiltonian"	MBb5 MARTIN WILKENS, MACIEJ LEVENSTEIN and JAN GROCHMALICKI (Polish Acad. of Sciences) "Quantum Noise Reduction in Photodetection Processes"			MCb6 M. LINDBERG (U. Arizona) and E. KYRÖLÄ (U. Helsinki) "An Infinite Ladder Coupled to a Quantum Mode: An Exactly Solvable Quantum Model"			
2:45 p.m.	LUNCH BREAK							

MONDAY, JUNE 26, 1989

HUBBLE			LANDER		HOYT HALL		LATTIMORE 201	
MAC	NON-LINEAR AND PARAMETRIC PROCESSES	MBc	SQUEEZING AND NOISE REDUCTION II	MCc	PHASE CONJUGATION AND MIXING	MDc	ATOM TRAPPING AND COOLING II	
	Chairman: E. JAKEMAN		Chairman: D.F. WALLS		Chairman: I. BIALYNICKI-BIRULA		Chairman: M.O. SARGENT III	
2:00 p.m.	MAc1 M. WOLINSKY and H.J. CARMICHAEL (U. Texas, Austin) "Photoelectron Counting Statistics for the Degenerate Parametric Oscillator"	MBc1 S. REYNAUD, A. HEIDMANN, E. GIACOBINO, C. FABRE (École Normale Supérieure) "A Semiclassical Linear Input Output Transformation for Quantum Fluctuations"			MCc1 HENK F. ARNOLOUS (Villanova U.) and THOMAS F. GEORGE (SUNY, Buffalo) "Extraordinary Behavior of Atoms near a Phase Conjugator"		MDc1 R. BLÜMEL (Max-Planck Inst. Garching) "Noise and Coherence in Strongly Perturbed Rydberg Atoms"	
2:15 p.m.	MAc2 C.D. NABORS and R.L. BYER (Stanford U.) "Monolithic Optical Parametric Oscillators for Quantum Optics"				MCc2 ALEXANDER L. GAETA and ROBERT W. BOYD (U. Rochester) "Quantum Statistical Properties of Optical Phase Conjugation"			
2:30 p.m.	MAc3 P.K. ARAVIND (Worcester Polytechnic Inst.) "Measuring the Wigner Angle with a Parametric Amplifier"	MBc2 S.F. PEREIRA, K.-C. PENG and H.J. KIMBLE (Cal. Tech.) "Squeezed State Generation and QND Detection by Nondegenerate Parametric Down Conversion"			MCc3 W. KROLIKOWSKI, M. CRONIN-GOLOMB (Tufts U.) and A. BLEADOWSKI, A. KUJAWSKI (Polish Acad. of Sciences) "Temporal Instabilities and Chaos in Photorefractive Four-Wave Mixing"		MDc2 W.M. ITANO, J.C. BERGQUIST, F. DIEDRICH and D.J. WINELAND (NIST, Boulder) "Quantum Optics of Single, Trapped Ions"	
2:45 p.m.	MAc4 MICHAEL B. RANKIN, JON P. DAVIS, CHRISTOPHER GIRANDA, MARTIN F. SQUICCIARINI and LLOYD C. BOBB (Naval Air Development Center) "G (2) and the Two-Photon Transition Rate: An Experimental Study"	MBc3 A.M. KHAZANOV, G.A. KOGANOV (Acad. Sciences USSR, Komсомolsk on Amur), E.P. GORDOV (Acad. of Sciences USSR, Tomsk) "On the Feasibility of Squeezed-State Generation in a Three-Level Atom Laser"			MCc4 Y.B. BAND, D.F. HELLER and J.S. KRASINSKI (Allied-Signal Inc.) "Spectrum of Three Wave Mixing for Multimode Beams"			
3:00 p.m.	MAc5 SURYA P. TEWARI (U. Hyderabad) and S.P. TEWARI (U. Delhi) "A Theory for Second Harmonic Generation in Dense Atomic Vapour"	MBc4 P. GALATOLA, A. LUGIATO, M. VADACHINO, WANG KAIGE (Torino Politecnico), N.B. ABRAHAM (Bryn Mawr), L.M. NARDUCCI (Drexel U.) "Squeezing in Two-Photon Optical Bistability and Degenerate Four-Wave Mixing"			MCc5 A. POSTAN and Y. BEN-ARYEH (Redstone Arsenal) "Brillouin Enhanced Reflectivity for Different Intensity Pump Waves"		MDc3 H. GILHAUS, R. BLATT, W. NEUHAUSER and P.E. TOSCHEK (U. Hamburg) "Photodynamics of a Single Trapped Three-Level Ion"	
3:15 p.m.		MBc5 PERRY R. RICE (Miami U.) "Single-Atom Cavity-Enhanced Absorption with Injected Squeezed Vacuum"			MCc6 W.R. GARRETT, R.C. HART, M.A. MOORE and M.G. PAYNE (Oak Ridge Natl. Lab.) "Saturation Behavior of Parametric Four-Wave Mixing Due to Two-Photon Interference Effect"		MDc4 M. TRIPPENBACH and J. COOPER (JILA) "Theory of the Slow, Identical Atom Collisions in a Radiation Field"	
3:30 p.m.	COFFEE BREAK							

MONDAY, JUNE 26, 1989

HUBBLE		LANDER		HOYT HALL		LATTIMORE 201	
MAd	LASERS II	MBd	SQUEEZING AND NOISE REDUCTION III	MCd	CAVITY QED II	MDd	COHERENT TRANSIENTS
	Chairman: R.W. BOYD	Chairman: M.D. LEVENSON	Chairman: S. HAROCHE				Chairman: S.R. HARTMANN
6:00 p.m.	MAd1 *L.A. LUGIATO (Torino Politecnico), L.M. NARDUCCI, G.-L. OPPO and J.R. TRE-DICCE (Drexel U.) "Spatial Instabilities and Symmetry Breaking in Lasers and Other Optical Systems"	MBd1 HORACE P. YUEN (Northwestern U.) "Efficient Photon Number Detection"	MBd2 M.S. KIM, F.A.M. de OLIVEIRA and P.L. KNIGHT (Imperial College) "Properties of Squeezed Number and Squeezed Thermal States"	MCd1 *P. MEYSTRE (U. Arizona) "Measurements, Dynamics and State Preparation in a Micromaser"			MDd1 *J. MLVNEK, M. ROSATZIN and D. SUTER (ETH, Zürich) "Optically Induced Coherent Spin Transients in an Atomic Ground State"
6:15 p.m.							
6:30 p.m.	MAd2 F.T. ARECCHI, R. MEUCCI, M. CIOFINI (Istituto Nazionale di Ottica, Firenze) "Delayed Bifurcations in a CO ₂ Laser with a Slowly Swept Pump"	MBd3 B. HUTTNER and Y. BEN-ARYEH (Technion) "Influence of the Local Oscillator on Homodyne Detection of Squeezed Vacuum"	MCd2 *Y. YAMAMOTO, S. MACHIDA, K. IGETA and K. HORIKOSHI (NTT, Japan) "Enhanced and Inhibited Spontaneous Emission from GaAs Quantum Wells by Modified Vacuum Field Fluctuations"				MDd2 V. FINKELSTEIN and P.R. BERMAN (New York U.) "Stimulated Photon Echo Induced by Broad-Bandwidth Pulses"
6:45 p.m.	MAd3 GEORGE GRAY and RAJARSHI ROY (Georgia Tech.) "Quantum Noise Initiated Mode Hopping in Semiconductor Lasers"	MBd4 ORHAN AYTUR, PREM KUMAR and JIANMING HUANG (Northwestern U.) "Generation of Squeezed Light with an Incoherent Pump"					MDd3 LAURENCE E. FRIED, YI JING YAN and SHAUL MUKAMEL (U. Rochester) "A Semi-classical Theory of Ultrafast Pump-Probe Spectroscopy: Visualization and Interpretation of Experiment"
7:00 p.m.	MAd4 P. RU, L.M. NARDUCCI (Drexel U.) and L.A. LUGIATO (Torino Politecnico) "Spontaneous Spatial Symmetry Breaking in a Fabry-Perot Laser"	MBd5 STEPHEN C. McCLAIN and LLOYD HILLMAN (Cornell U.) "Understanding Squeezed States and Their Detection Using the Schrodinger Picture"	MCd3 R.J. BRECHA and H.J. CARMICHAEL (Cal. Tech.) "Nonclassical Photon Correlations in Cavity QED"				MDd4 FRANK C. SPANO (U. Rochester) and W.S. WARREN (Princeton U.) "Superradiant Effects in Photon Echo Decays"
7:15 p.m.	MAd5 J.S. UPPAL, L. WEIPING and R.C. HARRISON (Heriot-Watt U.) "Bistable and Sustained Oscillatory Behavior of Coherently Pumped Three-Level cw Laser"	MBd6 V. PERINOVA (Palacky U.), C. SIBILIA, M. BERTOLOTI (U. Roma) and J. PERINA (Palacky U.) "Principal Squeezing in Optical Devices"	MCd4 P. ALSING and H.J. CARMICHAEL (U. Texas, Austin) "Single-Atom Cavity-Enhanced Absorption: Steady-State Field in the Strong-Coupling Limit"				MDd5 A. SZABO and T. MURAMOTO (N.R.C., Canada) "Experimental Test of the Optical Bloch Equations for Solids using Free Induction Decay and Hole-Burning"
7:30 p.m.	MAd6 CHR. TAMM (Physikalisch-Techn. Bundesanstalt, Braunschweig) "Bistability and Optically Induced Switching of Spatial Field Patterns in a Laser"		MCd5 PHILIP GOLDBERG (Staten Island College) "Optical Correlation Functions and Squeezing in the Jaynes-Cummings Model"				MDd6 SURYA P. TEWARI and M. KRISHNA KUMARI (Hyderabad U.) "Transient Spectrum of Two Level Atoms Interacting with Amplitude Modulated Intense Radiation"

DINNER

MOVIE SHOW: "A Fish Called Wanda"

TUESDAY, JUNE 27, 1989

HUBBLE		LANDER		HOYT HALL		LATTIMORE 201
TAa	RAMAN SCATTERING	TBa	SQUEEZING AND NOISE REDUCTION IV	TCa	NON-CLASSICAL PHOTON STATISTICS I	INSTABILITIES AND CHAOS I
	Chairman: T.W. MOSSBERG		Chairman: P.D. DRUMMOND		Chairman: R. LOUDON	Chairman: F.T. ARECCHI
9:00 a.m.	TAa1 M.G. RAYMER (U. Oregon), Z.W. LI and I.A. WALMSLEY (U. Rochester) "Temporal Quantum Fluctuations in Stimulated Raman Scattering"		TBa1 A. PAUL, M. LINDBERG, S. AN, M. SARGENT III and S.W. KOCH (U. Arizona) "Squeezing in Coherently Pumped Semiconductors"		TCa1 E. JAKEMAN (R.S.R.E., Malvern) "Generation, Detection and Applications of Sub-Poissonian Light"	TDa1 J.E. BAYFIELD (U. Pittsburgh) "Classically Chaotic Near-Classical Microwave Ionization"
9:15 a.m.	TAa2 MARK HERMANN, SHAM DIXIT and THOMAS KARR (Lawrence Livermore Natl. Lab.) "Theoretical Calculations of Multiple Rotational Level Raman Scattering in Nitrogen"		TBa2 G. KURIZKI and M. SHAPIRO (Weizmann Inst. of Science) "Detection of Squeezed Light by Coherently Superposed Detector States"			
9:30 a.m.	TAa3 R.C. SWANSON, D.C. MacPHERSON and J.L. CARLSTEN (Montana State U.) "Quantum Fluctuations in the Stimulated Raman Scattering Spectrum"		TBa3 L.A. LUGIATO, P. GALATOLA (Torino Politecnico) and L.M. NARDUCCI (Drexel U.) "Universal Normal-Form Description of Squeezing in Two-Photon Processes"		TCa2 CHANG ZHU AND CARLTON M. CAVES (U. Southern California) "Photocount Statistics of Continuous-Wave Squeezed Light"	TDa2 R.G. DEVOE, J. HOFFNAGLE, J. ROSENKRANZ, L. REYNA and R.G. BREWER (IBM, San Jose) "Order and Chaos in Trapped Ion Crystals"
9:45 a.m.	TAa4 AHMET ELCI (U. New Mexico) and DAVID DEPATIE (Kirtland AFB) "Bloch Electrons in Coherent Light: A New Type of Renormalization"		TBa4 JAGDISH RAI, RAMARAO INGUVA and CHARLES M. BOWDEN (Redstone Arsenal) "Wigner Distribution Function for Optical Fields and Its Application to the Detection of Squeezed States"		TCa3 F.T. ARECCHI, R. MEUCCHI (Istituto Nazionale di Ottica, Firenze) and J.A. ROVERSI (Universidade Estadual, Campinas) "Determination of a Small Photon Number by Statistical Amplifying Transients"	TDa3 A.T. ROSENBERGER, L.A. OROZCO and H.J. KIMBLE (U. Texas, Austin) "Absorptive Optical Bistability in Two-State Atoms"
10:00 a.m.	TAa5 SHAM DIXIT and MARK HERMANN (Lawrence Livermore Natl. Lab.) "Degeneracy Effects in High Intensity Stimulated Rotational Raman Scattering"		TBa5 C.L. MEHTA (I.I.T., New Delhi) and G.M. SAXENA (National Physical Lab., New Delhi) "Para-Bose Squeezed States"		TCa4 G.J. MILBURN (U. Queensland) "Preparation of Nonclassical States by Conditional Measurement"	TDa4 M. SCALORA, J.W. HAUS (Rensselaer Polytechnic Inst.) and C.M. BOWDEN (Redstone Arsenal) "Intrinsic Optical Bistability in a Cavity"
10:15 a.m.	TAa6 S.J. KUO and M.G. RAYMER (U. Oregon) "Spatial Quantum Fluctuations in Stimulated Raman Scattering"		TBa6 R. SIMON (C.I.T., Madras) "A Geometric Representation for Squeezing: the ABCD Law"			TDa5 E.J. GALVEZ, L. MOORMAN, B.E. SAUER, P.M. KOCH (SUNY, Stony Brook), D. RICHARDS, J.G. LEOPOLD (Open Univ., U.K.) and R.V. JENSEN (Yale U.) "Microwave Excitation and Ionization of H Atoms at High Scaled Frequencies: Comparisons"
10:30 a.m.	COFFEE BREAK					

TUESDAY, JUNE 27, 1989

		HUBBLE		LANDER		HOYT HALL		LATTIMORE 201	
TAB	LASERS III	TBB	COHERENCE AND FLUCTUATIONS I	Tcb	RING LASERS	TDb	TWO-PHOTON TRANSITIONS		
	Chairman: H.S. PILLOFF		Chairman: H.A. FERWERDA		Chairman: M.G. RAYMER		Chairman: R.K. BULLOUGH		
11 00 a.m.	TAB1 F. HAAKE (U. Essen), D.F. WALLS and S. TAN (U. Auckland) "Photon Noise Reduction in Lasers by Suppression of Pump Fluctuations"	TBB1 *F. GORI (U. Roma) "Some Modal Expansions of Partially Coherent Fields"			TCb1 GAUTAM VEMURI, L. FABINY and RAJARSHI ROY (Georgia Tech.) "Stochastic Resonance in Bistable Systems"		TDb1 *J.M. RAIMOND (École Normale Supérieure) "Fluctuations and Dynamics of Rydberg Atom Masers"		
11 15 a.m.	TAB2 FENGLEI ZHOU, MURRAY SARGENT III and STEPHAN W. KOCH (U. Arizona) "Theory of Sidemode Generation in Semiconductor Lasers Due to Population Pulsation"				TCb2 REETA VYAS and SURENDRA SINGH (U. Arkansas) "Nonlinear Interaction of Modes in the Ring Laser with a Saturable Absorber"				
11 30 a.m.	TAB3 KARL KOCH, STEPHEN H. CHAKMAKJIAN, STEPHANOS PAPADEMETRIOU and C.R. STROUD, Jr. (U. Rochester) "Excited-State Relaxation Dynamics in Dye Lasers"		TBB2 WEIJIAN WANG and EMIL WOLF (U. Rochester) "Coherence Properties of Light Propagating in a One-Dimensional Lorentz Medium"		TCb3 T.H. CHYBA and L. MANDEL (U. Rochester) "Investigation of π phase Jumps in a Ring Laser"		TDb2 T.R. GENTILE, B.J. HUGHEY, D. KLEPPNER (MIT) and T.W. DUCAS (Wellesley College) "An Experimental Study of One- and Two-Photon Rabi Oscillations in Calcium Rydberg States"		
11 45 a.m.	TAB4 M. MORIN, J.-F. CORMIER and M. PICHE (U. Laval) "Stability Analysis of Active Mode-Locking through Loss Modulation"		TBB3 DANIEL F.V. JAMES (U. Rochester) "The Spectrum of Radiation from a Moving Source of Any State of Coherence"		TCb4 G. D'ALESSANDRO, A. POLITI and FT. ARECCHI (Istituto Nazionale di Ottica, Firenze) "Competition between Counter-Propagating Waves in Laser Dynamics"		TDb3 P.L. GOULD and J. JAVANAINEN (U. Connecticut) "Linear Intensity Dependence of a Two-Photon Transition Rate"		
12 00 noon	TAB5 E. HERNANDEZ-GARCIA, M. AGUADO and M. SAN MIGUEL (U. de les Illes Balears) "Gain Noise in Dye Lasers"		TBB4 AVSHALOM GAMLIEL (U. Rochester) "Spectral Changes in Light Propagation from a Class of Partially Coherent Sources"		TCb5 F.C. CHENG and L. MANDEL (U. Rochester) "Behavior of a Ring Laser with Injected Signal near Threshold"		TDb4 ZHIDANG CHEN and HELEN FREEDHOFF (York U.) "Radiation Theory for Two-Photon Processes"		
12 15 p.m.	TAB6 M.J. COLLETT (U. Auckland) "Optical Systems Driven by Inputs with Reduced Intensity Fluctuations: A Possible Master Equation Approach"		TBB5 HANS M. PEDERSEN (Norwegian Inst. of Technology) "Exact Geometrical Description of Free Space Radiative Energy Transfer for Scalar Wavefields"		TCb6 L. PESQUERA and R. BLANCO (U. Cantabria) "Gas Ring Lasers with Backscattering: One-Time Statistical Properties and Intensity Correlation Functions"		TDb5 E.P. GORDOV (USSR Acad. of Sciences, Tomsk), A.M. KHAZANOV and G.A. KOGANOV (USSR Acad. of Sciences, Komsomolsk on Amur) "Nonlinearity and Quantum Noise: Separation of Fluctuations in Liouville Operator: Laser on Two-Photon Transitions"		
12 30 p.m.	TAB7 STEPHEN H. CHAKMAKJIAN, STEPHANOS PAPADEMETRIOU, KARL KOCH and C.R. STROUD, Jr. (U. Rochester) "Near-Threshold Behavior of Multimode CW Dye Lasers with Amplitude Modulated Pump"				TCb7 GAUTAM VEMURI and RAJARSHI ROY (Georgia Tech.) "Bidirectional Laser with an Injected Signal: A Digital Detector"		TDb6 A.W. BOONE and S. SWAIN (Queen's U., Belfast) "Theory of the Two-Photon Laser"		
12 45 p.m.	LUNCH BREAK								

TUESDAY, JUNE 27, 1989

HUBBLE		LANDER		HOYT HALL		LATTIMORE 201	
TAC	LASERS IV	TBC	SQUEEZING AND NOISE REDUCTION V	TCC	NON-CLASSICAL PHOTON STATISTICS II	TDC	CAVITY QED AND INSTABILITIES
	Chairman: M. LAX		Chairman: L.A. LUGIATO		Chairman: M.C. TEICH		Chairman: L.M. NARDUCCI
2:00 p.m.	TAc1 GAUTAM VEMURI and RAJARSHI ROY (Georgia Tech.) "Super-Regenerative Laser Receiver"	TBc1 SUNGHYUCK AN and MURRAY SARGENT III (U. Arizona) "Quantum Theory of Multiwave Mixing in a Squeezed Vacuum"			TCc1 REETA VYAS and SURENDRA SINGH (U. Arkansas) "Photon Counting Statistics of Squeezed Light"		TDc1 R.J. GLAUBER (Harvard U.) "Atoms in Cavities"
2:15 p.m.	TAc2 DIDIER DANGOISSE, DANIEL HENNEQUIN and PIERRE GLORIEUX (U. de Lille) "Non-linear Dynamics of a Laser Containing a Modulated Saturable Absorber"	TBc2 JEFFREY H. SHAPIRO, SCOTT R. SHEPARD and NGAI C. WONG (MIT) "Coherent Phase States and Squeezed Phase States"			TCc2 Z. FICEK, R. TANAS and S. KIELICH (A. Mickiewicz U.) "Photon Antibunching in Spontaneous Emission from Two Non-identical Atoms"		
2:30 p.m.	TAc3 GIAN-LUCA OPPO (Drexel U.) and ANTONIO POLITI (Istituto Nazionale di Ottica, Firenze) "Adiabatic Elimination for Laser Equations via Center Manifold Theory"	TBc3 SENG-TIONG HO, NGAI C. WONG and JEFFREY H. SHAPIRO (MIT) "Self-Focusing Limitations on Squeezed State Generation in Two-Level Media"			TCc3 J.G. RARITY and P.R. TAPSTER (R.S.R.E., Malvern) "Spatially Separated Two Color Photons in Fourth Order Interference"		TDc2 R.L. INGRAHAM, M.E. GOGGIN (New Mexico State U.) and P.W. MILONNI (Los Alamos) "Sensitivity to Initial Conditions in Classical and Quantum Dynamics"
2:45 p.m.	TAc4 S. CHOPRA (I.I.T., New Delhi) and SURANJANA RAI (U. Alabama) "Theory and Photon Statistics of Free Electron Laser"	TBc4 MARK HILLERY (Hunter College, CUNY) "Sum and Difference Squeezing"			TCc4 H. RITSCH and P. ZOLLER (U. Innsbruck) "Atomic Systems Driven by Colored Squeezed Light"		TDc3 B. RITCHIE (Lawrence Livermore Natl. Lab.), C.C. SUNG, Y.Q. LI (U. Alabama) and C.M. BOWDEN (Redstone Arsenal) "Quantum and Classical Chaos in a Driven, Undamped Nonlinear Oscillator"
3:00 p.m.	TAc5 M.W. HAMILTON (U. Strathclyde) "Production of a (Phase) Random-Telegraph Field"	TBc5 S.J.D. PHOENIX (Imperial College) and S.M. BARNETT (Oxford U.) "How Strongly Can We Correlate Two Optical Fields?"			TCc5 T.W. HODAPP, M.A. FINN, G.W. GREENLEES (U. Minnesota) and D.A. LEWIS (Iowa State U.) "Observations of Sub-Poisson and Poisson Photon Statistics from the Fluorescence of Individual Barium Atoms"		TDc4 F.T. ARECCHI, A. LAPUCCI, R. MEUCCI (Istituto Nazionale di Ottica, Firenze), J. A. ROVERSI (U. Estadual, Campinas), P.H. COULLET (U. Nice) "Experimental Characterization of Shilnikov Chaos by Statistics of Return Times"
3:15 p.m.	TAc6 R.J.C. SPREEUW and J.P. WOERDMAN (U. Leiden) "Photon Band Structure"	TBc6 P.K. ARAVIND and J.J. GONG (Worcester Polytechnic Inst.) "Higher Order Squeezing of Thermal Light through Parametric Amplification"			TCc6 F. DE MARTINI, S. DI FONZO and N. LISI (U. Roma) "Transition from Classical, 'Maxwell-Boltzmann', to Quantum, 'Bose-Einstein' Partition Statistics by Stochastic Splitting of Degenerate Light"		TDc5 M. LE BERRE, E. RESSAYRE and A. TALLET (U. de Paris Sud) "Delayed Feedback Acting as Noise to Induce Phase Transitions"
3:30 p.m.	COFFEE BREAK						

TUESDAY, JUNE 27, 1989

HUBBLE			LANDER		HOYT HALL		LATTIMORE 201	
TAd	LASERS V	TBd	ATOM-FIELD INTERACTIONS I	Tcd	COOPERATIVE EFFECTS I	Tdd	NONLINEAR OPTICS I	
	Chairman: L. ALLEN		Chairman: H.J. KIMBLE		Chairman: G.S. AGARWAL		Chairman: R.J. COOK	
4:00 p.m.	TAd1 MANSOUR MORTAZAVI and SURENDRA SINGH (U. Arkansas) "Continuous and Discontinuous Phase Transitions in the Laser with a Saturable Absorber"		TBd1 Y. ZHU, A. LEZAMA and T.W. MOSSBERG (U. Oregon) "Polarization of Dressed Atom-Field States in the Transient and Steady State Regimes"		Tcd1 G.M. PALMA and P.L. KNIGHT (Imperial College) "Correlated Decay of Atoms Interacting with Broadband Squeezed Light"		TDd1 *SHAUL MUKAMEL and JASPER KNOESTER (U. Rochester) "Polaritons and Retarded Interactions in Nonlinear Optics in Condensed Phases"	
4:15 p.m.	TAd2 V.S. SMIRNOV and A.Z. FAZLIEV (USSR Inst. of Atmospheric Optics) "Intensity Fluctuation Suppression in Injected-Locked Dye Ring Laser"				Tcd2 B.M. GARRAWAY, R.K. BULLOUGH, S.S. HASSAN and R.R. PURI (UMIST) "Atomic Coherent States, Phase Transitions and Squeezing from Rydberg Atoms"			
4:30 p.m.	TAd3 J.Y. GAO, Z.H. ZHUANG (Jilin U.) and N.B. ABRAHAM (Bryn Mawr) "Using Modulation Response to Determine Dynamical Parameters and Appropriate Models for Single-Mode Lasers"		TBd2 DAAN LENSTRA and WILLEM van HAERINGEN (Eindhoven U.) "On the Analogy between Electrons and Light"		Tcd3 I. BIALYNICKI-BIRULA and ZOFIA BIALYNICKA-BIRULA (Polish Academy of Sciences) "Angular Correlations of Photons"		TDd2 G.S. AGARWAL (U. Hyderabad) and R.R. PURI (BARC, Bombay) "Quantum Effects in Light Propagation through a Nonlinear Medium"	
4:45 p.m.	TAd4 G.A. KOGANOV, A.M. KHAZANOV (USSR Acad. of Sciences, Komsomolsk on Amur), E.P. GORDOV (USSR Acad. of Sciences, Tomsk) "Quantum Theory of Coherently-Pumped Laser"		TBd3 K. WODKIEWICZ (Warsaw U.) "Quantum Jumps and Continuous Observations"		Tcd4 BOZENA SOBOLEWSKA and JAN MOSTOWSKI (Polish Academy of Sciences) "Radiation from an Atom Located in the Vicinity of Dielectric - Space-Time Analysis"		TDd3 JOHN THOMPSON and RAJAFSHI ROY (Georgia Tech.) "Two Pulse Nonlinear Excitations in Optical Fibers"	
5:00 p.m.	TAd5 K.J. PHILLIPS, M.R. YOUNG and SURENDRA SINGH (U. Arkansas) "Correlation Functions of a HeNe Laser with Multiplicative White Noise"		TBd4 A.S. PARKINS and C.W. GARDINER (U. Waikato) "The Effect of Dissipation on Macroscopic Quantum Coherence in a Double-Well System"		Tcd5 M.R.B. WAHIDDIN, S.S. HASSAN and R.K. BULLOUGH (UMIST) "Transient and Spectral Properties of Several Rydberg Atoms in a Squeezed Vacuum"		TDd4 YEHIAM PRIOR, A.G. KOFMAN, R. ZAIBEL (Weizmann Inst. of Science), A.M. LEVINE (College of Staten Island) "Generalized Jump Model for Phase Fluctuations in Nonlinear Optics"	
5:15 p.m.	TAd6 WOJCIECH GADOMSKI (U. Oregon) "Elimination of the Dynamics of the Rotational Levels in a Four-Level CO ₂ Laser Model"		TBd5 F.T. HIOE and C.E. CARROLL (U. Rochester) "Excitation of Three-State Atom with Minimum Population of Intermediate State"		Tcd6 J. SEKE, R. SCHNABL and F. RATTAY (Tech. U., Wien) "Collective Radiation Inhibition Effects in the Many-Atom Jaynes-Cummings Model"		TDd5 OLE KELLER (U. Aalborg) "Optical Second-Harmonic Generation and Rectification in a Superconductor with Cooper Pairing"	
5:30 p.m.	TAd7 A.D. MAY (U. Toronto) and G.M. STEPHEN (U. Rennes) "Quasi-Isotropic Lasers: A New Understanding of an Old Problem"		TBd6 G. COMPAGNO, G.M. PALMA, R. PASSANTE and F. PERSICO (Istituto di Fisica dell'Universita, Palermo) "QED of a Two-Level Atom and Photodetection"				TDd6 J.W. HAUS, N. KALYANIWALLA (Rensselaer Polytechnic Inst.), M. BLOEMER, R. INGUVA and C.M. BOWDEN (Radstone Arsenal) "Composite Materials for Nonlinear Optics: Theory and Experiment"	

6:45 p.m. CONFERENCE RECEPTION } (Danforth Dining Center)
7:30 p.m. CONFERENCE DINNER
8:30 p.m. AFTER-DINNER SPEAKER: P. FRANKEN (U. Arizona) "Coherent and Incoherent Irrelevancies"

WEDNESDAY, JUNE 28, 1989

HUBBLE		LANDER		HOYT HALL		LATTIMORE 201	
WAA	INSTABILITIES AND CHAOS II	WBA	COHERENCE AND FLUCTUATIONS II	WCa	NON-CLASSICAL PHOTON STATISTICS III	WDa	NONLINEAR OPTICS II
	Chairman: M.O. SCULLY		Chairman: N. GEORGE		Chairman: M.W. SCHUBERT		Chairman: N. BLOEMBERGEN
9:00 a.m.	WAA1 "N.B. ABRAHAM (Bryn Mawr) and C.O. WEISS (Physikalisch Tech. Bundesanstalt, Braunschweig) "Dynamics of NH ₃ FIR Laser and the Lorenz Model"		WBA1 JEFFREY H. SHAPIRO, SCOTT R. SHEPARD and NGAI C. WONG (MIT) "A New Number-Phase Uncertainty Principle"		WCa1 G.S. HOLLIDAY and SURENDRA SINGH (U. Arkansas) "Enhancement of Photon Antibunching in Second Harmonic Generation"		WDa1 "S. AKHMANOV (Moscow State U.) "Spatio-Temporal Structure and Chaos in Nonlinear Optical Systems with Two-Dimensional Feedback"
9:15 a.m.			WBA2 L. DOMASH, P. LEVIN (Foster Miller Inc.) and M.A. FIDDY (U. Lowell) "Fluctuation Interferometer as High Angular-Resolution Sensor of Laser Illumination"		WCa2 RICHARD A. CAMPOS, MALVIN C. TEICH and BAHAA E.A. SALEH (Columbia U.) "Photon-Number Distributions for Homodyne Photomixing at a Lossless Beam Splitter"		WDa2 G.S. AGARWAL (U. Hyderabad) and R.R. PURI (BARC, Bombay) "Quantum Theory of Interaction of a Resonant Field with a Nonlinear Medium Modelled as an Anharmonic Oscillator"
9:30 a.m.	WAA2 D.K. BANDY and D.J. JONES (Oklahoma State U.) "Dimensionality Studies of Chaotic Attractors in Laser with Injected Signal"		WBA3 HIDEYA GAMO (U.C., Irvine) "Phase-Sensitive Light Amplifiers in Stellar Interferometry"		WCa3 B. YURKE and M.J. POTASEK (AT&T Bell Labs.) "Solution to the Initial Value Problem for the Quantum Nonlinear Schrodinger Equation"		WDa3 P. COLET (U. de les Illes Balears), M.C. TORRENT (U. de Barcelona) and M. SAN MIGUEL (U. de les Illes Balears) "Relaxation Problems and Lifetimes in Nonlinear Optical Systems"
9:45 a.m.	WAA3 W.J. FIRTH and A. FITZGERALD (U. Strathclyde) "Transverse Modulational Instabilities in Kerr Media"		WBA4 EERO TERVONEN, JARI TURUNEN and ARI T. FRIBERG (Helsinki U.) "Transverse Mode Structure of Laser Beams Determined from Spatial Coherence"		WCa4 H. le PAS de SECHEVAL and C. BENDJABALLAH (C.N.R.S.) "Information Performance for a Binary Channel with Photon Counting Detection"		WDa4 HANS RIIS JENSEN and OLE KELLER (U. Aalborg) "Optical Second-Harmonic Generation from Jellium. The Classical Nonlinear, Nonlocal Response Tensor and the Collective-Mode Pattern"
10:00 a.m.	WAA4 J. O'GORMAN, B.J. HAWDON, J. HEGARTY (Trinity College, Dublin), D.M. HEFFERNAN (Nat. Inst. of Higher Education) "Frequency Locking, Quasiperiodicity and Chaos in Modulated External Cavity Injected Lasers"		WBA5 PENG JIN SHENG (Huazhong Normal U.) "Resonance Fluorescence of Atom in Strong Magnetic Field"		WCa5 ROBERT G.W. BROWN and MATTHEW DANIELS (R.S.R.E., Malvern) "Silicon Avalanche Photodiodes for Quantum Optics Experiments: Sub-Geiger Performance"		WDa5 M. NIETO-VESPERINAS and G. LERA (C.S.I.C.) "Depletion Effects in Second Harmonic Generation with a Partially Coherent Beam"
10:15 a.m.	WAA5 K.J. DRUHL and C. WINDENBERGER (Maharishi International U.) "Self-Observation and Self-Referral in Lasers: An Analysis of the Transition from Quantum to Classical Behavior"						
10:30 a.m.	COFFEE BREAK						

WEDNESDAY, JUNE 28, 1989

HUBBLE			LANDER		HOYT HALL		LATTIMORE 201	
WAb	INSTABILITIES AND CHAOS III	WbB	ATOM-FIELD INTERACTIONS II	Wcb	COOPERATIVE EFFECTS II	WDb	FUNDAMENTAL TESTS OF QUANTUM MECHANICS AND LOCALITY	
	Chairman: N.B. ABRAHAM		Chairman: P.R. BERMAN		Chairman: S. MUKAMEL		Chairman: E.C.G. SUDARSHAN	
11:00 a.m.	WAb1 J.D. PARK, D.S. SEO and J.G. McINERNY (U. New Mexico) "Quasi-Subharmonic Bifurcation Routes to Chaos in External Cavity Semiconductor Lasers"		WBb1 "V. CHEBOTAYEV (USSR Acad of Sciences, Novosibirsk) "Synchronization of Quantum Transitions"		Wcb1 P.D. DRUMMOND, S.J. CARTER (U. Queensland), J.D. HARVEY and R. LEONHARDT (U. Auckland) "Superfluorescent Generation of Mode-Locked Pi Pulses"		WDb1 D.J. HEINZEN, J.J. BOLLINGER, WAYNE M. ITANO, S.L. GILBERT, C.J. WINELAND (NIST, Boulder) "Test of the Linearity of Quantum Mechanics by RF Spectroscopy of the $^9\text{Be}^+$ Ground State"	
11:15 a.m.	WAb2 DAAN LENSTRA (Eindhoven U.) and JULIUS S. COHEN (Philips Research Labs.) "Spectral Analysis for the Coherence Collapsed Diode Laser"		WBb2 J. SEKE (Tech. U., Wien) "A New Non-perturbative Method for Treating Interactions of Atoms with Radiation Field"		Wcb2 R.R. PURI, R.K. BULLOUGH and N. NAYAK (UMIST) "Collective Dynamical Statistical and Equilibrium Properties of N Rydberg Atoms Making 2-Photon Transitions"		WDb2 M.O. SCULLY (U. New Mexico) and K. WODKIEWICZ (Warsaw U.) "On the Quantum Malus Law for Photon and Spin Quantum Correlations"	
11:30 a.m.	WAb3 HERBERT G. WINFUL (U. Michigan) "Instabilities and Chaos in Phase-Locked Semiconductor Laser Arrays"		WBb3 YIFU ZHU, A. LEZAMA, QILIN WU and T.W. MOSSBERG (U. Oregon) "Experimental Study of the Fluorescence Spectrum Emitted by Two-Level Atoms under Strong Bichromatic Excitation"		Wcb3 T.A.B. KENNEDY and D.F. WALLS (U. Auckland) "Optical Spectra of a Strongly Coupled System of Atoms in a Cavity Driven by Squeezed Light"		WDb3 M.D. REID (U. Wakato) and P.D. DRUMMOND (U. Queensland) "Optical Einstein-Podolsky-Rosen Correlations"	
11:45 a.m.	WAb4 GOVIND P. AGRAWAL (U. Rochester) "Cooperative Modulation Instability in Dispersive Nonlinear Media"		WBb4 H. HUANG and J.H. EBERLY (U. Rochester) "Lineshape in the Theory of Phase-Dependent Three-Wave Pump-Probe Interactions"		Wcb4 JAGDISH RAI, RAMARAO INGUVA and CHARLES M. BOWDEN (Redstone Arsenal) "Quantum Statistical Analysis of Superfluorescence and Amplified Spontaneous Emission in Dense Atomic Systems"		WDb4 J.D. FRANSON (Johns Hopkins U.) "A New Test of Bell's Inequality Using Optical Interference"	
12:00 noon	WAb5 DANIEL J. GAUTHIER, MICHELLE S. MALCUIT and ROBERT W. BOYD (U. Rochester) "Multistability and Chaos in Counter-propagating Laser Beams"		WBb5 J. SEKE and W. HERFORT (Tech U., Wien) "Deviations from Exponential Decay in the Spontaneous Emission by a Two-Level Hydrogenic Atom"		Wcb5 A.T. ROSENBERGER (Southern Methodist U.) "Amplitude and Phase Dynamics of Superradiant and Raman Pulse Trains"		WDb5 SHANG SONG, CARLTON CAVES (U. Southern California) and BERNARD YURKE (AT&T Bell Labs.) "Schrödinger Kittens from Optical Back-Action Evasion"	
12:15 p.m.	WAb6 F. MITSCHKE, C. BODEN, C. HENNING and I. ROLOFF (U. Hannover) "Observation of Chaos in a Passive Nonlinear Resonator"				Wcb6 MUNAWAR KARIM (St. John Fisher College) "Metric-Perturbed Shifts in Superradiant States"		WDb6 W.M. de MUYNCK and H. MARTENS (Eindhoven U.) "Optical Experiments Illustrating the Significance of the Bell Inequalities"	
12:30 p.m.	LUNCH BREAK							

WEDNESDAY, JUNE 28, 1989

HUBBLE		LANDER		HOYT HALL		LATTIMORE 201	
WAC	INSTABILITIES AND CHAOS IV	WBC	ATOM-FIELD INTERACTIONS III	WCc	MULTIPHOTON PROCESSES I (Jointly with SILAP)	WDc	LIGHT SCATTERING
	Chairman: P. MANDEL		Chairman: R. CHIAO		Chairman: P.W. MILONNI		Chairman: H.M. PEDERSEN
2:00 p.m.	WAc1 L.M. HOFFER and N.B. ABRAHAM (Bryn Mawr) "Stability Analysis of a Model for a Homogeneously Broadened Bidirectional Ring Laser"		WBc1 K. YAMADA and P.R. BERMAN (New York U.) "Macroscopic Quantum Jumps from a Two-Atom System"		WCc1 "L.A. LOMPRÉ (C.E.N. de Saclay) "Very High Order Harmonic Conversion of Intense YAG Laser Radiation in Rare Gases"		WDc1 "H.M. NUSSENZVEIG (Pontificia U., Rio de Janeiro) "Tunneling and Resonances in Mie Scattering"
2:15 p.m.	WAc2 R.G. HARRISON, WEIPING LU and P.K. GUPTA (Heriot-Watt U.) "Origin of Pulsating Instabilities and Chaos in Raman Lasers"		WBc2 JAN GROCHMALICKI and MACIEJ LEWENSTEIN (Polish Acad. of Sciences) "Detection of Decay Processes and Cavity Fields by Means of Quantum Jump Statistics"				
2:30 p.m.	WAc3 U. HUBNER, W. KLISCHE (Phys. Tech. Bundesanstalt, Braunschweig) and N.B. ABRAHAM (Bryn Mawr) "Dimension Calculations for Comparison of Lorenz-Like Laser Behaviour with the Lorenz Model"		WBc3 K. WODKIEWICZ and N.H. CONG (Warsaw U.) "Optical Resonance Equations in the Presence of Strong Radiation and Shot-Noise Collisions"		WCc2 "B.W. SHORE and K.C. KULANDER (Lawrence Livermore Natl. Lab.) "Generation of Optical Harmonics by Intense Pulses of Laser Radiation: A Theoretical View"		WDc2 JOHN T. FOLEY (Mississippi State U.) and EMIL WOLF (U. Rochester) "Scattering of Electromagnetic Fields of Any State of Coherence from Fluctuating Media"
2:45 p.m.	WAc4 FRANCESCO A. NARDUCCI, JOHN D. KOHLER and GIAN-LUCA OPPO (Drexel U.) "Instabilities of a Coupled Cavity Laser"		WBc4 WILHELMUS M. RUYTEN (U. Tennessee Space Institute) "Resonance Behavior of a Two-Level Atom Driven by Amplitude- or Frequency- Modulated Fields"				WDc3 EMIL WOLF (U. Rochester) "On the Possibility of Generating Doppler-like Frequency Shifts of Spectral Lines by Scattering from Space-Time Fluctuations"
3:00 p.m.	WAc5 M. ARJONA, R. CORBALAN (Aut. U. de Barcelona), F. LAGUARTA, J. PUJOL (U. de Catalunya), R. VILASECA (U. de Valencia) "Progress in Modelling Coherently Pumped Far-Infrared Laser Dynamics"		WBc5 MARTIN WILKENS (Inst. for Theor. Phys., Warsaw) and KAZIMIERZ RZĄŻEWSKI (U. Rochester) "Resonance Fluorescence, Amplitude Modulation and Fibonacci Numbers"		WCc3 "H.R. REISS (American U.) "Relativistic Effects in High-Intensity Photon-Electron Interactions"		WDc4 BRIAN CAIRNS and EMIL WOLF (U. Rochester) "Comparison of Two Theories of Scattering from Quasi-Homogeneous Media"
3:15 p.m.			WBc6 BENJAMIN FAIN (Tel-Aviv U.) "Spontaneous and Induced Emission of Soft Bosons: Exact Non-Markovian Solution"				WDc5 ALBERT M.F. LAU and ROGER L. FARROW (Sandia Natl. Lab., Livermore) "Nonlinear Gaussian Expansions of Stochastic Processes: Super-Gaussian Statistics of n-Harmonic Fields"
3:30 p.m.	COFFEE BREAK						

WEDNESDAY, JUNE 28, 1989

LATTIMORE 201

HOYT HALL

POSTDEADLINE PAPERS

WD3

MULTIPHOTON PROCESSES II (jointly with SILAP)

Chairman: C.R. STROUD, Jr.

LANDER

ATOM-FIELD INTERACTIONS IV

WCD

Chairman: R.L. MCCRORY

WCd1 *M.V. FEDOROV (USSR Acad. of Sciences) "Coherence and Interference in Photoionization of Rydberg Atoms"

HUBBLE

INSTABILITIES AND CHAOS V

WBd

Chairman: R. CORBALAN

WAd1 SHAWN D. PETHEL (U. Alabama) and CHARLES M. BOWDEN (Redstone Arsenal) "Fractal Properties of the Rotating 'van der Pol Oscillator with Phase'"

WAd2 N.P. PETTIAUX, LI RUO-DING and PAUL MANDEL (U. Libre de Bruxelles) "Instabilities of the Degenerate Optical Parametric Oscillator"

WAd3 W. FORYSIAK, J.V. MOLONEY and R.G. HARRISON (Heriot-Watt U.) "Chaotic Dynamics of Optically Pumped Lasers"

WAd4 LEE W. CASPERSON and MANUELA FE H. TARROJA (Portland State U.) "Models and Approximations for Instabilities in Standing-Wave Lasers"

WAd5 G.E. JAMES, E.M. HARRELL II and RAJARSHI ROY (Georgia Tech.) "Intermittency in Intracavity Doubled YAG Lasers"

WBd6 DAVID COHEN and LLOYD W. HILLMAN (Cornell U.) "Phase Fluctuation and Damping in Two-Level Optical Resonance"

WBd7 E. OZIZMIR, W.M. SCHREIBER, A.M. LEVINE (College of Staten Island) "Pump-Probe Lineshape Formulas with Damping"

WCd2 *P.H. BUCKSBAUM, A. ZAVRIYEV and D.W. SCHUMACHER (AT&T Bell Labs.) "The Hydrogen Molecule in Intense Laser Light"

WCd3 M. SANJAY KUMAR and G.S. AGARWAL (Hyderabad U.) "Diagrammatic Methods for Nonlinear Response of a System Dressed by Resonant External Fields"

WCd4 W. LEONSKI and R. TANAS (A. Mickiewicz U.) "Population Trapping Effect for System with Double Autoionizing Levels"

6:00 p.m. CLOSE OF CQ06

LATTIMORE 201

WDd POSTDEADLINE PAPERS

Chairman: C.R. STROUD, Jr.

- 4.00 pm WDd1 J.V. HAJNAL, K.G.H. BALDWIN, P.T.H. FISK, H.-A. BACHOR,
G.I. OPAT (Austral. Nat. U., Canberra) "Reflection and Diffraction
of Sodium Atoms by an Evanescent Laser Light Field"
- 4.15 pm WDd2 G. BABST, G. REMPE, F. SCHMIDT-KALER and H. WALTHER (U. München
and Max Planck Inst.) "Photon statistics in the One-Atom Maser"
- 4.30 pm WDd3 Z.Y. OU, L.J. WANG, X.Y. ZOU and L. MANDEL (U. of Rochester)
"Optical Phase Information due to the Vacuum in Two-Photon Down-
Conversion"
- 4.45 pm WDd4 H. RISKEN and J. EISELT (U. Ulm) "Quasiprobabilities for the
Jaynes-Cummings Model with Damping"
- 5.00 pm WDd5 A. DUNCAN, R. MAWHINNEY and P. STEHLE (U. PITTSBURGH)
"Monte Carlo Simulation of Real-time Quantum Processes"
- 5.15 pm WDd6 S.R. FRIBERG (NTT Basic Research Labs, Tokyo) "Soliton
Collisions for Quantum Nondemolition Measurement of Photon Number:
The QND Soliton Interferometer"

POSTER SESSION

May Room, Wilson Commons

Wednesday, June 28, 1989, 10:30 a.m. - 4:00 p.m.

- P1 V.A. ANDREEV and P.B. LERNER (Lebedev Phys. Inst., Moscow) "Supersymmetry in the Jaynes-Cummings Model"
- P2 S. CHELKOWSKI and A.D. BANDRAUK (U. de Sherbrooke) "Coherent Propagation of Ultrashort Laser Pulses in Multilevel Medium"
- P3 K. HOLLIDAY and N.B. MANSON (Australian Natl. U., Canberra) "Raman Heterodyne detection of Electron Paramagnetic Resonance"
- P4 F.-L. HONG, M. TACHIKAWA, K. TANII and T. SHIMIZU (U. Tokyo) "Laser Instabilities and Chaos in infrared Gas Lasers with Saturable Absorber"
- P5 S.V. LAWANDE, Q.V. LAWANDE and B.N. JAGATAP (Bhabha Atomic Research Centre, Bombay) "Quantum Jumps in a system of Three-Level Atoms"
- P6 X. LI and B. SU (Tianjin U.) "Higher Order Squeezing of Quantum Electromagnetic Fields in Two-Mode Squeezed States"
- P7 K.T. LU and J. ZHANG (U. of Science & Technology, Beijing) "Observation of High Efficiency VUV Stimulated Radiation based on Laser Induced Cooperative Excimer Complex Formation in a Dense Mixture of Mg and Ar Gas"
- P8 K.T. LU (Atomic Engineering Corp., Gaithersburg) "On the Theory of Laser Induced Cooperative Excimer Complex Formation"
- P9 M.A.M. MARTE, H. RITSCH and D.F. WALLS (U. Waikato, U. Innsbruck, U. Auckland) "Squeezed Reservoir Lasers"
- P10 H. RITSCH, TH. HASLWANTER and P. ZOLLER (U. Innsbruck) and J. COOPER (J.I.L.A., Boulder) "Laser Noise Induced Population Fluctuations in Two-Level Systems"
- P11 P.A. RODGERS (Rutherford Appleton Lab.) and S. SWAIN (Queen's U. Belfast) "Resonance Fluorescence with Square Pulses - an Explanation for Asymmetries and Extra Peaks"
- P12 M.L. TER-MIKAELIAN (Armenian Acad. Sciences) "Laser Beam Propagation through a Resonant Medium"
- P13 K. WYNNE, M. MULLER and J.D.W. VAN VOORST (U. Amsterdam) "High Time Resolution with Incoherent Light in the Raman-Fringe-Decay."
- P14 J.J. SANCHEZ-MONDRAGON (Centro Invest. Opt., Leon, Mexico) "Thermal Revivals in the Jaynes-Cummings Model"
- P15 X. CHEN, V.L. TELEGDI and A. WEIS (Inst. fur Hochenergiephysik, Zurich) "Non-Linear Resonant Faraday Effect in Cesium: A Quantitative Comparison between Experiment and Theory"

(over..)

P16 D.R. MEACHER, M. KACZMAREK, P. EWART and M. BELSLEY (Clarendon Lab., Oxford) "Laser Bandwidth and Atomic Relaxation Effects on DFWM with Broad Bandwidth Pulsed Lasers"

P17 S.M. SKIPPON, P. SNOWDON and P. EWART (Clarendon Lab., Oxford) "Improved Noise Performance in Single Shot Cars Using a Modeless Laser"

P18 J.R. KUKLINSKI (Polish Academy of Science) "Generation of Fock States of the Electromagnetic Field in a High-Q Cavity Through the Anderson Localization"

P19 Y. ZHU and T.W. MOSSBERG, M. LEWENSTEIN and J.R. KUKLINSKI (Polish Academy of Science) "Strongly Driven Two-Level Atoms as a Medium for a Multi-Photon Laser"

P20 K. ARNETT, R. RYAN, M.W. HAMILTON, J. BRANDENBERGER, T. BERGEMAN, H. METCALF and S.J. SMITH (JILA, Boulder) "Hanle Effect in Spectrally Broadened Light"

P21 N. LU (U. of New Mexico) "Lifetime of a Pure Number State in a Cavity"

P22 Y. SHEVY (Cal. Tech.) "Cooling Atoms with Extraresonant Stimulated Emission Below the Doppler Limit"

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ACHIAN	YAAKOV	MRCN	PO BOX 9001	BEER-SHEVA	84190	ISRAEL
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BANDY	CAROL	OKLAHOMA STATE UNIV	82-5 BRUNLEY APT	STILLWATER, OK	74074	USA
BANDY	DOMNA	OKLAHOMA STATE UNIV	145 PHYSICS DEPT PS 2	STILLWATER, OK	74074	USA
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DE VRIES	PAUL L	MIAMI UNIVERSITY	DEPT OF PHYSICS	OXFORD, OH	45056	USA
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ELCI	ANNET	UNIVERSITY OF NEW MEXICO	3432 CALLE DEL MONTE NE	ALBUQUERQUE, NM	87106	USA
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FEDRY	MICHAEL A	UNIVERSITY OF LOWELL	DEPT OF ELECTRICAL ENG	LOWELL, MA	01854	USA
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FRANKEN	PETER	UNIVERSITY OF ARIZONA	OPTICAL SCIENCE CENTER	TUCSON, AZ	85721	USA
FRANSON	JAMES D	JOHNS HOPKINS UNIV, APL	JOHNS HOPKINS RD	LAUREL, MD	20707	USA
FREEDHOFF	HELEN S	YORK UNIVERSITY	PHYSICS, 4700 KEELE ST	TORONTO, ON	M3J 1P3	CANADA
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FRIED	LAURENCE	UNIVERSITY OF ROCHESTER	115-4 HANOR PARKWAY	ROCHESTER, NY	14620	USA
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GAETA	ALEXANDER	UNIVERSITY OF ROCHESTER	INSTITUTE OF OPTICS	ROCHESTER, NY	14627	USA
GAGE	EDWARD	UNIVERSITY OF ROCHESTER	120 FURLONG STREET	ROCHESTER, NY	14623	USA
GADDA	MARIUSZ	UNIVERSITY OF ARIZONA	DEPARTMENT OF PHYSICS	TUCSON, AZ	85721	USA
GALVEZ	ENRIQUE J	COLGATE UNIVERSITY	DEPT OF PHYSICS	HAMILTON, NY	13346	USA
GAMIEL	AVSHALOM	INSTITUTE OF OPTICS	3100 ELWOOD AVENUE	ROCHESTER, NY	14618	USA
GANO	HIDEYA	UNIVERSITY OF CALIFORNIA	DEPT OF PHYSICS	IRVINE, CA		USA
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GAPRETT	WILLIAM	OAKRIDGE NATIONAL LAB	BLDG 5500, MS 6378	OAK RIDGE, TN	37931	USA
GAUTHIER	DANIEL J	UNIVERSITY OF ROCHESTER	INSTITUTE OF OPTICS	ROCHESTER, NY	14623	USA
GENTILE	THOMAS R	MIT	26-229	CAMBRIDGE, MA	02139	USA
GEORGE	NICHOLAS	UNIVERSITY OF ROCHESTER	INSTITUTE OF OPTICS	ROCHESTER, NY	14627	
GERRY	CHRIS	ST.BONAVENTURE	1299 OLEAN PORTVILLE RD	WESTONS MILLS, NY	19788	USA
GIACORINO	ELISABETH	UNIVERSITE PARIS 6	LAB SPECTRO HERTZIENNE	PARIS	75252	FRANCE
GIOGGIA	ROBERT S	WIDENER UNIVERSITY		CHESTER, PA	19013	USA
GLAUBER	ROY J	HARVARD UNIVERSITY	LYMAN LABORATORY	CAMBRIDGE, MA	02138	USA
GLAUBER	ROY	HARVARD UNIVERSITY	LYMAN LABORATORY	CAMBRIDGE, MA	02138	USA
GLORIEUX	PIERRE	UNIVERSITE DE LILLE I		VILLENEUVE D'ASCQ	59655	FRANCE
GLORIEUX	PIERRE	UNIVERSITE DE LILLE I	VILLENEUVE D'ASCQ CEDEX		59655	FRANCE
GOLDBERG	PHILIP	CITY UNIV OF NEW YORK	199 CHESTNUT STREET	ENGLEWOOD, NJ	07631	USA
GOODMAN	MATTHEW	BELL COMMUNICATIONS	26 ESTATE ROAD	BELLE MEAD, NJ	08502	USA
GORI	FRANCO	UNIVERSITY OF ROME	BIP.FISICA UNIV PLE AND	ROME	00185	ITALY
GRAY	GEORGE	GEORGIA TECH	SCHOOL OF PHYSICS	ATLANTA, GA	30332	USA
GREEN	CHARLES K	BREXEL UNIVERSITY	39 CRESSMONT AVENUE	BLACKWOOD, NJ	08012	USA
GREENWOOD	WILLIAM G	UNIVERSITY OF ROCHESTER	DEPT OF PHYSICS/ASTRON	ROCHESTER, NY	14627	USA
GRIMM	RUDOLF	ETH ZURICH	ETH-HOENSGERBERG HPT	ZURICH	8093	SWITZERLAND
HAJNAL	J		95 HOLFORD ROAD	LONDON	NW118EH	U K
HAMILTON	MURRAY W	UNIV OF STRATHCLYDE	PHYS DEPT, 107 ROTTEMHON	GLASGOW	640NG	U K
HARRISON	ROBERT G	HERIOT-WATT UNIVERSITY	PHYSICS DEPARTMENT	EDINBURGH		U K
HARTMAN	SVEN P	COLUMBIA UNIVERSITY	PHYSICS DEPT	NEW YORK, NY	10025	USA
HATEFI	MANLIO	NATO RESEARCH COUNCIL	1ST DI ELETTRONICA QUAN	FLORENCE	50127	ITALY
HAUS	JOSEPH	RENSSELAER POLYTECH INST	PHYSICS DEPARTMENT	TROY, NY	12180	USA
HAWDON	BRENDAN	TRINITY COLLEGE	PHYSICS DEPARTMENT	DUBLIN	2	U K
HEINZEN	DANIEL J	WIS	325 BROADWAY MS 576.11	BOULDER, CO	80303	USA
HELFERICH	JEROME A	WIS	325 BROADWAY 576.10	BOULDER, CO	80303	USA
HILLEBT	MARY	HUNTER COLLEGE OF CUNY	DEPT OF PHYSICS	NEW YORK, NY	10021	USA
HILLMAN	LLOYD	UNIVERSITY OF ALABAMA	205 RIDGEDALE ROAD	ITHACA, NY	14850	USA
HIOE	F	ST JOHN FISHER COLLEGE		ROCHESTER, NY	14618	USA

REGISTRATION LIST

LASTNAME	FIRSTNAME	ORGANIZA	ADDRESS1	ADDRESS2	MAILCODE	COUNTRY
HO	SENG-TION	AT&T BELL LABORATORIES	600 MOUNTAIN AVENUE	MURRAY HILL, NJ	07974	USA
HODAPP	THEODORE	HAWAIIAN UNIVERSITY	PHYSICS DEPT	ST PAUL, HI	55104	USA
HOFFER	LOIS M	BRYN MAWR COLLEGE	DEPT OF PHYSICS	BRYN MAWR, PA	19010	USA
HOLLIDAY	KEITH	AUSTRALIAN NATL UNIV	LASER PHYSICS CENTER	CANBERRA	2601	AUSTRALIA
HONG	FENG-LEI	TOKYO UNIVERSITY	1-3-1, HONGO, BUNKYO-KU	TOKYO	113	JAPAN
HORNE	MICHAEL	STONEHILL COLLEGE	STONEHILL COLLEGE	NORTH EASTON, MA	02357	USA
HUANG	JIANGMING	NORTHWESTERN UNIVERSITY	2215 WESLEY AVENUE	EVANSTON, IL	60201	USA
HUANG	HU	UNIVERSITY OF ROCHESTER	DEPT PHYSICS & ASTRONOMY	ROCHESTER, NY	14627	USA
HUEDMER	UDO	PHYS TECH BUNDESANSTALT	BUNDESALLEE 100, 4.42	BRAUNSCHWEIG	3300	FED REP GERM
HUGHEY	BARBARA	MIT	28-214	CAMBRIDGE, MA	02139	USA
HUTTMER	BRUNO	TECHNION	DEPT OF PHYSICS	HAIFA	32000	ISRAEL
ITANO	WAYNE M	MIST	325 BROADWAY STREET	BOULDER, CO	80303	USA
JAKENAN	ERIC	RSRE	ST ANDREWS ROAD	MALVERN, WORCS	WR143PS	U K
JAMES	DANIEL F V	UNIVERSITY OF ROCHESTER	INSTITUTE OF OPTICS	ROCHESTER, NY	14627	USA
JAMES	GLENN	GEORGIA TECH	SCHOOL OF PHYSICS	ATLANTA, GA	30332	USA
JAVANAIWEN	JUHA	UNIVERSITY OF CONNECTICUT	DEPT OF PHYSICS, U-46	STORRS, CT	06269	USA
JENSEN	HANS	UNIVERSITY OF AALBORG	PONTOPPIDANSTRAEDE 101	AALBORG	9220	DENMARK
JONES	DARLENA	OKLAHOMA STATE UNIV	111 HUSBAND HC	STILLWATER, OK	74074	USA
KACZMAREK	MALGORZATA	OXFORD UNIVERSITY	CLARENDON LABORATORY	OXFORD	OX14 3BH	U K
KALYANIMALLU	MAUZER	RENSSELAER POLYTECH INST	PHYSICS DEPARTMENT	TROY, NY	12180	USA
KARIM	MUNAWAR	ST JOHN FISHER COLLEGE	DEPT OF PHYSICS	ROCHESTER, NY	14618	USA
KAUBERER	MARK	UNIVERSITY OF TEXAS	DIVISION OF ENGINEERING	SAN ANTONIO, TX	78285	USA
KAURANEN	MARTTI	UNIVERSITY OF ROCHESTER	125 UNIVERSITY PARK	ROCHESTER, NY	14620	USA
KELLER	OLE	UNIVERSITY OF AALBORG	BLEGDALSPARKEN 34	AALBORG	9000	DENMARK
KENNEDY	T A BRIAN	UNIVERSITY OF AUCKLAND	DEPT OF PHYSICS	AUCKLAND		NEW ZEALAND
KIR	YOUNG	UNIVERSITY OF MARYLAND	DEPT OF PHYSICS	COLLEGE PARK, MD	20742	USA
KIRBLE	H. JEFFREY	CALTECH	PHYSICS DEPT, 12-33	PASADENA, CA	91125	USA
KNIGHT	PETER	IMPERIAL COLLEGE	PRINCE CONSORT ROAD	LONDON	SW7 2BZ	U K
KNOESTER	JASPER	UNIVERSITY OF ROCHESTER	CHEMISTRY DEPT	ROCHESTER, NY	14627	USA
KOCH	KARL	UNIVERSITY OF ROCHESTER	INSTITUTE OF OPTICS	ROCHESTER, NY	14627	USA
KOFMAN	ABRAHAM	WEIZMANN INSTITUTE	DEPT OF CHEMICAL PHYSICS	REHOVOT		ISRAEL
KOFMAN	ABRAHAM	WEIZMANN INSTITUTE	DEPT OF CHEMICAL PHYSICS	REHOVOT	50125	ISRAEL
KOHLER	JOHN D	DREXEL UNIVERSITY	3701 BERING STREET	PHILADELPHI, PA	19104	USA
KRASINSKI	JERZY	ALLIED SIGNAL INC	PO BOX 1021R	MORRISTOWN, NJ	07060	USA
KRATZEL	AXEL	CALTECH	HS 12-33	PASADENA, CA	91125	USA
KROLIKOWSKI	MIESLAW Z	TUFTS UNIVERSITY	HALLIGAN HALL, 161 COLL	NEEDHAM, MA	02155	USA
KULINSKI	JAN RAFAL	POLISH ACADEMY SCIENCES	AL LOTNICKA 32/44	WARSAW	02 668	POLAND
KULANDER	KENNETH C	LLNL	PO BOX 808, L-430	LIVERMORE, CA	94550	USA
KUNAR	PREM	NORTHWESTERN UNIVERSITY	EECS DEPT, 2145 SHERIDAN	EVANSTON, IL	60208	USA
KUNAR	SANJAY	UNIV OF HYDERABAD	SCHOOL OF PHYSICS	HYDERABAD, AP	50108	INDIA
KUN CHI	PEING	CALTECH	BAIL CODE 12-33	PASADENA, CA	91125	USA
KUD	SHINJONG	UNIVERSITY OF OREGON	DEPT OF PHYSICS	EUGENE, OR	97405	USA
KURIZKI	GERSHON	WEIZMANN INSTITUTE OF SCI	DEPT OF CHEMICAL PHYSICS	REHOVOT	76100	ISRAEL
KYROLA	ERKKI	FINNISH METEOROLOGICAL	VESAKKOTIE 3 B 07	HELSINKI	00630	FINLAND
LANE	ALISTAIR	UNIV OF SOUTHERN CALIF	CTR FOR LASER STUDIES	LOS ANGELES, CA	90089	USA
LANGE	WULFHARD	INST ANGEWANDTE PHYSIK	CONRERSSTR 214	ROENSTEN	4400	FED REP GERM
LARCHUX	TODD S	COLUMBIA UNIVERSITY	210 WELLINGTON PLACE	HATVAN, NJ	07747	USA
LAU	ALBERT	SANDIA NATIONAL LABS		LIVERMORE, CA	94551	USA
LAU	STANLEY	CORNELL UNIVERSITY	PHILLIPS HALL	ITHACA, NY	14853	USA
LAX	M	CITY COLLEGE OF NEW YORK	12 HIGH STREET	SUNNIT, NJ	07901	USA
LE BERRE	MARTINE	LABORATOIRE DE PPH	BAT 213	ORSAY	91405	FRANCE
LE PAS DE SECHEV	HELMAN	PARIS XI	48 BOULEVARD JOURDAN	PARIS	75014	FRANCE

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REGISTRATION LIST

LASTNAME	FIRSTNAME	ORGANIZA	ADDRESS1	ADDRESS2	MAILCODE	COUNTRY
LEE	CHING	ALABAMA A&M UNIVERSITY	3213 HASTINGS ROAD	HUNTSVILLE, AL	35801	USA
LEE	SEUNGHEE	NORTHWESTERN UNIVERSITY	800 HINMAN AVE. #609	EVANSTON, IL	60202	USA
LENSTRA	DAAN D	EINDHOVEN UNIV OF TECH	DEPT OF PHYSICS POB 513	EINDHOVEN	5600	NETHERLANDS
LETT	PAUL D	MATL INST OF STDS & TECH	PHYSICS B160	GAITHERSBURG, MD	20899	USA
LEVENSON	HARC D	IBM RESEARCH DIVISION	K31/802D, 450 HARRY RD	SAN JOSE, CA	95120	USA
LEWENSTEIN	MACIEJ A	HARVARD UNIVERSITY	20 TIFTS STREET	CAMBRIDGE, MA	02139	USA
LEZANA	ARTURO A	UNIVERSITY OF OREGON	122 SCIENCE 1	EUGENE, OR	97405	USA
LI	RUO DING	UNIV LIBERTE BRUXELLES	PLAINE C P 231	BRUSSELS	1050	BELGIUM
LIN	HONG	BRYN MAWR COLLEGE	DEPT OF PHYSICS	BRYN MAWR, PA	19010	USA
LINDBERG	MARTUS	UNIVERSITY OF ARIZONA	OPTICAL SCIENCES CTR	TUCSON, AR	85721	USA
LIPPI	GIAN LUCA	BRYN MAWR COLLEGE	DEPT OF PHYSICS	BRYN MAWR, PA	19010	USA
LONPRE	L	SPAS/CEN DE SACLAY		GIF SUR YVETTE	91191	FRANCE
LOUBON	RODNEY	ESSEX UNIVERSITY	PHYSICS DEPT	COLCHESTER	CO7 4SD	U K
LU	NING	UNIVERSITY OF NEW MEXICO	DEPT OF PHYSICS	ALBUQUERQUE, NM	87131	USA
LU	K T	ATOMIC ENGINEERING CORP	PO BOX 3342	GAITHERSBURG, MD	20878	USA
LUGIATO	LUIGI	POLITECNICO DE TORINO	DIPARTIMENTO DI FISICA	TORINO	10129	ITALY
MACPHERSON	DAVID	MONTANA STATE UNIVERSITY	PHYSICS DEPT, AJM106	BOZEMAN, MT	59717	USA
MAGILL	BRIAN	UNIVERSITY OF ROCHESTER	417 RICHARDSON ROAD	ROCHESTER, NY	14623	USA
MAI	JEFFREY	UNIVERSITY OF ROCHESTER	INSTITUTE OF OPTICS	ROCHESTER, NY	14620	USA
MALCUIT	MICHELLE	UNIVERSITY OF ROCHESTER	INSTITUTE OF OPTICS	ROCHESTER, NY	14627	USA
MALLALIEU	MARK	UNIVERSITY OF ROCHESTER	2 LILAC DRIVE	ROCHESTER, NY	14620	USA
MANDEL	PAUL	UNIV LIBERTE BRUXELLES	PLAINE C P 231	BRUSSELS	1050	BELGIUM
MANDEL	LEONARD	UNIVERSITY OF ROCHESTER	DEPT OF PHYSICS/ASTROM	ROCHESTER, NY	14627	USA
MANNA	AARON S	BREXEL UNIVERSITY	1403 N 75TH STREET	PHILADELPHIA, PA	19151	USA
MANSON	PETER	AUSTRALIAN NATIONAL UNIV		CANBERRA, ACT	2601	AUSTRALIA
MANTEGNA	ROSARIO	UNIVERSITAT DI PALERMO	VIA ARCHIRAFI 36	PALERMO	90123	ITALY
MANTEGNA	ROSARIO	UNIV DI PALERMO	VIA ARCHIRAFI 36	PALERMO	90123	ITALY
MARJORIBANKS	ROBIN	UNIVERSITY OF TORONTO	40 ST GEORGE STREET	TORONTO, ONTARIO	M5S 1A7	CANADA
MARTE	MONIKA	UNIVERSITY OF INNSBRUCK	INST FOR THEOR PHYSIK	INNSBRUCK	6020	AUSTRIA
MATTAR	FARRES	NEW YORK UNIVERSITY	PHYSICS DEPARTMENT	NEW YORK, NY	10008	USA
MATULIC	L	ST JOHN FISHER COLLEGE	DEPT OF PHYSICS	ROCHESTER, NY	14618	USA
MAWHINNEY	ROBERT	UNIVERSITY OF PITTSBURGH	DEPARTMENT OF PHYSICS	PITTSBURGH, PA	15260	USA
MAY	DAVID A	UNIVERSITY OF TORONTO	40 ST. GEORGE STREET	TORONTO	M5S 1A7	CANADA
MCCLAIN	STEPHEN	CORNELL UNIVERSITY	119 QUEEN STREET	ITHACA, NY	14850	USA
MCCRORY	ROBERT	UNIV OF ROCHESTER	250 EAST RIVER ROAD	ROCHESTER, NY	14623	USA
MCCRATH	PAUL	LAB FOR PHYSICAL SCIENCE	12613 LAURIE DRIVE	SILVERSPRING, MD	20904	USA
METCALF	HAROLD	SUNY STONY BROOK	PHYSICS DEPT	STONY BROOK, NY	11790	USA
MEUCCI	RICCARDO	ISTITUTO NAZIONALE OTTIC	LARGO E FERMI 6	FIRENZE	50125	ITALY
MEYERHOFFER	DAVID	UNIVERSITY OF ROCHESTER	220 HOOPERMAN BLDG	ROCHESTER, NY	14627	USA
MEYSTRE	PIERRE	UNIVERSITY OF ARIZONA	OPTICAL SCIENCES CENTER	TUCSON, AZ	85721	USA
MIES	FREDERICK	MIST		GAITHERSBURG, MD	20899	USA
MILBURN	GERARD J	UNIVERSITY OF QUEENSLAND	DEPT OF PHYSICS	BRISBANE	4067	AUSTRALIA
MILLER	EDWARD	UNIVERSITY OF ROCHESTER	95 CRITTENDEN ROAD	ROCHESTER, NY	14620	USA
MILOMNI	PETER W	LOS ALAMOS NATIONAL LAB	MS J549	LOS ALAMOS, NM	87545	USA
MITSCHLE	FEDOR	UNIVERSITY HANNOVER	INST FOR QUANTUMOPTICS	HANNOVER	60023	FRG
MLYNEX	JURGEN	ETH ZURICH	ETH HONGERBERG (HPT)	ZUERICH	8093	SWITZERLAND
MOLONEY	JERRY V	MERLOT-WATT UNIVERSITY	PHYSICS DEPARTMENT	EDINBURGH		U K
MOLONEY	JERRY	MERLOT-WATT UNIVERSITY	PHYSICS DEPT	EDINBURGH, SCOTLAND	76712	U K
MOORE	MARY ANNE	HARVARD COLLEGE OBSERV	60 GARDEN STREET	CAMBRIDGE, MA	02138	USA
MORTH	MICHAEL	UNIVERSITE LAVAL	5160 LENAIRE	QUEBEC	G2E2G1	CANADA
MOROI	DAVID S.	KENT STATE UNIVERSITY	925 CRAIN AVENUE	KENT, OH	44240	USA
MORTAZAVI	MANSOUR	UNIVERSITY OF ARKANSAS	DEPT OF PHYSICS UA	FAYETTEVILLE, AR	72701	USA

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REGISTRATION LIST

LASTNAME	FIRSTNAME	ORGANIZA	ADDRESS1	ADDRESS2	MAILCODE	COUNTRY
MOSSBERG	THOMAS W	UNIVERSITY OF OREGON	DEPT OF PHYSICS	EUGENE, OR	97403	USA
MUELLER	NICHIEL	UNIVERSITY OF AMSTERDAM	NIEUWE ACHTERGRACHT 127	AMSTERDAM	1018WE	NETHERLAND
MUKAMEL	SHAUL	UNIVERSITY OF ROCHESTER	CHEMISTRY DEPT	ROCHESTER, NY	14627	USA
MULLER	HARNGEERT	FOR INSTITUTE	ROOISLAAN 407	AMSTERDAM	109054	NETHERLAND
McIVER	JOHN	UNIVERSITY OF NEW MEXICO	DEPT PHYSICS & ASTRONOMY	ALBUQUERQUE, NM	82131	USA
MADORS	CHARLES	STANFORD UNIVERSITY	GINZTON LAB, 810	STANFORD, CA	94305	USA
MAKAHARA	KATSUHIKO M	NIPPON ATOMIC INDUSTRY	4-1 UKISHIMA-CHO	KAWASAKI	210	JAPAN
MARBUCCI	FRANCESCO	DREXEL UNIVERSITY	504 MONELL LANE	HAVERTOWN, PA	19083	USA
MARBUCCI	LORENZO M	DREXEL UNIVERSITY	32ND AND CHESTNUT ST	PHILADELPHIA, PA	19104	USA
MI	WEI-TOU	TSING-HUA UNIVERSITY	PHYSICS DEPT	HSINCHEU	30043	CHINA
NIEMHUIS	GERARD	UNIVERSITY OF UTRECHT	PO BOX 80000	UTRECHT	3500	NETHERLAND
NIETOVERPERINAS	MANUEL	INSTITUTO DE OPTICA CSIC	SERRANO 121	MADRID	28006	SPAIN
MOH	JAEOOD	UNIVERSITY OF ROCHESTER	334 QUINCY ROAD	ROCHESTER, NY	14623	USA
MUSSENZVEIG	HERCH	CATHOLIC UNIVERSITY, RIO	R HILARIO DE OLIVEIRA 87	RIO DE JANEIRO	22040	BRAZIL
O'GORMAN	JAMES	TRINITY COLLEGE	PHYSICS DEPARTMENT	DUBLIN	2	U K
OLIVER	BRIAN	UNIVERSITY OF ROCHESTER	DEPARTMENT OF PHYSICS	ROCHESTER, NY	14627	USA
OPPO	GIAN LUCA	DREXEL UNIVERSITY	32ND AND CHESTNUT ST	PHILADELPHI, PA	19104	USA
OU	ZHE-YU	UNIVERSITY OF ROCHESTER	DEPT OF PHYSICS	ROCHESTER, NY	14627	USA
OZAWA	HANAMAO	NORTHWESTERN UNIVERSITY	2730 HAMPTON PKWY 001	EVANSTON, IL	60201	USA
OZIZMIR	ERCUMENT	COLLEGE OF STATEN ISLAND	44 PARK PLACE	STATEN ISLAND, NY	10301	USA
PALMA	MASSIMO G	IMPERIAL COLLEGE	LASER OPTICS, BLACKETT	LONDON	SW7 2BZ	U K
PALKER	CHRIS A	MILTON ROY CO	M 820 LINDEN AVENUE	ROCHESTER, NY	14625	USA
PAPDERETIOU	STEPHANOS	UNIVERSITY OF ROCHESTER	INSTITUTE OF OPTICS	ROCHESTER, NY	14627	USA
PART	JONG-BAE	UNIV OF NEW MEXICO	1180 ALVARADO 8214	ALBUQUERQUE, NM	87108	USA
PARKINS	SCOTT	UNIVERSITY OF WAIKATO	PHYSICS DEPT	HAMILTON		NEW ZEALAND
PAUL	ANDREW	UNIVERSITY OF ARIZONA	528 E. LESTER	TUSCON, AZ	85705	USA
PEBERSEN	HANS	NORWEGIAN INST TECH	KASHNIRSKOE SHOSSE 31	TROMSHEIM	115409	NORWAY
PEGG	DAVID T	GRIFFITH UNIVERSITY	SCHOOL OF SCIENCE	NATHAN, QLD	4111	AUSTRALIA
PEREIRA	SILVANIA	CALTECH	MAIL CODE 12-33	PASADENA, CA	91125	USA
PERSICO	FRANCESCO	ISTITUTO DE FISICA	VIA ARCHIRAFI 36	PALERMO	90123	ITALY
PESQUERA	LUIS	UNIVERSITY CANTABRIA	BPT FISICA MOD FAC CIEN	SANTANDER	39005	SPAIN
PETHEL	SHAWN	UNIVERSITY OF HUNTSVILLE	209 S OXFORD CIRCLE	MERIDIANVILLE, AL	35759	USA
PETHEL	SHAWN	UNIV OF HUNTSVILLE	209 S OXFORD CIRCLE	MERIDIANVILLE, AL	35759	US
PETITIAUX	NICOLAS P	UNIV LIBERTE BRUXELLES	PLAINE C P 231	BRUSSELS	1050	BELGIUM
PHILLIPS	KENNETH	UNIV OF ARKANSAS	DEPT OF PHYSICS	FAYETTEVILLE, AR	72701	USA
PHOENIX	SIMON	IMPERIAL COLLEGE	LASER OPTICS, BLACKETT	LONDON	SW7 2BZ	U K
PIKE	EDWARD	KINGS COLLEGE LONDON	STRAND	LONDON	WC2R2LS	U K
PILLOFF	H S	OFFICE OF NAVAL RESEARCH	800 N QUINCY, 111210	ARLINGTON, VA	22217	USA
POLITI	ANTONIO	ISTITUTO NAZIONALE OTTICA	LARGO E FERMI 6	FIRENZE	50125	ITALY
POLITI	ANTONIO	ISTITUTO NAZIONALE OTTICA	LARGO E FERMI 6	FIRENZE	50125	ITALY
POSTAN	AARON	MRC ASSOC NICON	1243 WILLOWBROOK DR 06	HUNTSVILLE, AL	35802	USA
PRIOR	YEHIAH	WEIZMANN INSTITUTE	DEPT OF CHEMICAL PHYSICS	REHOVOT		ISRAEL
PRIOR	YEHIAH	WEIZMANN INSTITUTE	DEPT CHEMICAL PHYSICS	REHOVOT	01024	ISRAEL
PRITCHARD	DAVID	MIT	77 MASS AVE, 26-237	CAMBRIDGE, MA	02139	USA
PUCCIONI	GIAMPIERO	ISTITUTO NAZIONALE OTTICA	LARGO E FERMI 6	FIRENZE	50125	ITALY
PURI	RAVINDER	BARC		BOMBAY	94	INDIA
RAI	JAGDISH	US ARMY MISSILE COMMAND	1221 WILLOWBROOK DR 01	HUNTSVILLE, AL	35802	USA
RAIMOND	JEAN	ECOLE NORMALE SUPERIEURE	24 RUE LAMOND	75005 PARIS		FRANCE
RAKIN	MICHAEL	UNIVERSITY OF MARYLAND	NAVAL AIR DEV CTR	365 NEWTOWN RD 25	18974	USA
RARITY	JOHN	RSRE	ST ANDREWS ROAD	MALVERN, WORCS	143PS	U K
RAYNER	MICHAEL	UNIVERSITY OF OREGON	DEPT OF PHYSICS	EUGENE, OR	97405	USA
REED	VALERIE	OXFORD UNIVERSITY	CLARENDON LAB, PARIS RD	OXFORD		U K

June 27, 1989

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REGISTRATION LIST

LASTNAME	FIRSTNAME	ORGANIZA	ADDRESS1	ADDRESS2	MAILCODE	COUNTRY
REID	MARGARET	UNIVERSITY OF WAIKATO	PHYSICS DEPT	HAMILTON		NEW ZEALAND
RENPE	GERHARD	UNIVERSITY MUNICH	PHYSIK DEPT	D-8046 GARCHING		FED REP GER
REYNALD	SERGE	CHRS-ENS-UPMC	SPECTROSCOPIE HERTZIEN	PARIS	75252	FRANCE
RISKEN	HANNES	UNIVERSITY OF ULM	THEORETISCHE PHYSIK	7900 ULM		FED REP GER
RITCHIE	ADAM	LAWRENCE LIVERMORE LAB	1951 CREEK ROAD	LIVERMORE, CA	94550	USA
RITSCH	HELMUT	UNIVERSITY OF INNSBRUCK	INST FOR THEOR PHYSIK	INNSBRUCK	6020	AUSTRIA
RODGERS	PETER A	RUTHERFORD LAB	LASER DIVISION	CHILTON DDCOT	0X1100X	U K
ROSATZIN	MARTIN	ETH ZURICH	ETH-HOENSGENBERG HPT	ZURICH	8093	SWITZERLAND
ROSENBERGER	ALBERT T	SOUTHERN METHODIST UNIV	DEPT OF PHYSICS	DALLAS, TX	75275	USA
ROY	RAJARSHI	GEORGIA TECH	SCHOOL OF PHYSICS	ATLANTA, GA	30332	USA
RU	PING	DREXEL UNIVERSITY	3701 POWELTON AVE, 82R	PHILADELPHI, PA	19104	USA
RUYTEN	WILHELMUS	UNIV TENN SPACE INST.	80035 RESERVOIR	TULLAHOMA, TN	37388	USA
RZAZEWSKI	KAZIMIERZ M	UNIVERSITY OF ROCHESTER	INSTITUTE OF OPTICS	ROCHESTER, NY	14623	USA
SACS	RICHARD	LLNL	PO BOX 5508	LIVERMORE, CA	94550	USA
SALEHI	JAVAD	BELLCORE	445 SOUTH STREET	MORRISTOWN, NJ	07960	USA
SAN MIGUEL	M	UNIV IS LAS BALEARS	OPTO DE FISICA	PALMA MALLORCA	07071	SPAIN
SANCHEZ-RODRAGO	JAVIER	INVESTIGACIONES OPTICA	APDO POSTAL 940	LEON,GT	037000	MEXICO
SARGENT	MURRAY	UNIVERSITY OF ARIZONA	OPTICAL SCIENCES CENTER	TUCSON, AZ	85721	USA
SCALORA	MICHAEL	RENSSELAER POLYTECH INST	PHYSICS DEPARTMENT	TROY, NY	12180	USA
SCHENZLE	AXEL	UNIVERSITY OF MUNICH	SEKTION PHYSIK	MUNICH	8000	FED REP GER
SCHOONMAKER	DAVID	OKLAHOMA STATE UNIV	815 NORTH MONROE	STILLWATER, OK	74075	USA
SCHREIBER	WILLIAM M	COLLEGE OF STATEN ISLAND	130 STUYVESANT PLACE	STATEN ISLAND, NY	10301	USA
SCULLY	MARLAN	UNIVERSITY OF NEW MEXICO	PHYSICS DEPARTMENT	ALBUQUERQUE, NM	87131	USA
SEKE	JOSIP	TECHN UNIVERSITAET WIEN	INSTITUT F THEOR PHYSIK	A-1040 WIEN		AUSTRIA
SHAPIRO	JEFFREY H	MIT	ROOM 36-477	CAMBRIDGE, MA	02139	USA
SHEPARD	SCOTT	MIT	ROOM 36-479	CAMBRIDGE, MA	02139	USA
SHEYI	YAAKOV	CALTECH	PHYSICS DEPT, 12-33	PASADENA, CA	91125	USA
SHORE	BRUCE	LLNL	PO BOX 808, L-438	LIVERMORE, CA	94550	USA
SIBILIO	CONCITA	UNIV OF ROME	VIA SCARPA 16	ROME	00161	ITALY
SIMON	RAJIAH	INST MATHEMATICAL SCIENC		MADRAS	600113	INDIA
SINGER	FAIGE F	COLUMBIA UNIVERSITY	535 W. 111TH STREET	NEW YORK, NY	10025	USA
SINGH	SURENDRA	UNIVERSITY OF ARKANSAS	PHYSICS DEPT	FAYETTEVILLE, AR	72701	USA
SIZMAN	ANDREAS	MPI FOR QUANTUM OPTICS	POSTFACH 1513	D-8046 GARCHING		FED REP GER
SKIPPON	STEPHEN	SHELL RESEARCH LAB	PO BOX 1	CHESTER		U K
SLOSSER	JOHN	UNIVERSITY OF ARIZONA	528 E LESTER	TUCSON, AZ	85705	USA
SLUSHER	RICHART	AT&T BELL LABS	600 MOUNTAIN AVE	MURRAY HILL, NJ	07974	USA
SNOWDON	PETER	OXFORD UNIVERSITY	CLARENDON LABORATORY	OXFORD	OX13PU	U K
SONG	SHANG	UNIV OF SOUTHERN CALIF	CTR FOR LASER STUDIES	LOS ANGELES, CA	90089	USA
SOURES	JOHN M	UNIVERSITY OF ROCHESTER	LLE 250 EAST RIVER ROAD	ROCHESTER, NY	14623	USA
SPANO	FRANK C	UNIVERSITY OF ROCHESTER	CHEMISTRY DEPT	ROCHESTER, NY	14627	USA
SPREEUN	ROBERT J	UNIVERSITY OF LEIDEN	PO BOX 9564	LEIDEN	2300RA	NETHERLAND
STENHOLM	STIG	RESEARCH INST THEOR PHYS	SILTAVUORENPENGER 20C	HELSINKI	00170	FINLAND
STEPHAN	GUY	RENNES UNIVERSITE	EMSSAT, 6 RUE DE RENARPO	LANNION	22305	FRANCE
STOOF	HENK T	EINDHOVEN UNIV OF TECH	PENELPESTRAT 169	EINDHOVEN		NETHERLAND
STROUD	CARLOS	UNIVERSITY OF ROCHESTER	INST OF OPTICS	ROCHESTER, NY	14627	USA
SUDARSHAN	GEORGE	UNIVERSITY OF TEXAS		AUSTIN, TEXAS	78712	USA
SUOMINEN	KALLE A	RESEARCH INST THEOR PHYS	SILTAVUORENPENGER 20C	HELSINKI	00170	FINLAND
SVANBERG	SUNE	LUND INSTITUTE OF TECH	DEPARTMENT OF PHYSICS	22100 LUND	11973	SWEDEN
SWAIN	STUART	QUEENS UNIVERSITY	APPLIED MATHS DEPT	BELFAST	BT7 1NW	NO IRELAND
SWANSON	RAND	MONTANA STATE UNIVERSITY	PHYSICS DEPT	BOZEMAN, MT	59717	USA
SZABO	ALEX	NATL RESEARCH COUNCIL	BLDG N 5.	OTTAWA, ONTARIO	K1A 0R6	CANADA
TANN	CHRISTIAN	TECH BUNDESANSTALT	LAB 4.42	BRAUNSCHWEIG	D-3300	FED REP GER

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REGISTRATION LIST

LASTNAME	FIRSTNAME	ORGANIZATION	ADDRESS1	ADDRESS2	MAIL CODE	COUNTRY
TEICH	HALVIN	COLUMBIA UNIVERSITY	DEPT OF ELECTRICAL ENG	NEW YORK, NY	10027	USA
TER-MIKHAELIAN	MIKHAIL	INSTITUT FOR PHYSICS	ARMENIAN SSR USSR	ASHTAZAK 2	00681	USSR
TERVONEN	EERO	HELSINKI UNIV OF TECH	DEPT OF TECHNICAL PHYSI	ESPOO	02150	FINLAND
TEVARI	SURYA P	UNIVERSITY OF HYDERABAD	SCHOOL OF PHYSICS	HYDERABAD, AP	500134	INDIA
THOMPSON	RICHARD C	IMPERIAL COLLEGE	BLACKETT LABORATORY	LONDON	EW7 2BZ	UK
THOMPSON	JOHN R	GEORGIA TECH	SCHOOL OF PHYSICS	ATLANTA, GA	30332	USA
THOMPSON	RICHARD	IMPERIAL COLLEGE	BLACKETT, PRINCE CONST R	LONDON, ENGLAND	SW72BZ	UK
THOMPSON	ROBERT	CALTECH	378 S CATALINA, APT 101	PASADENA, CA	91106	USA
TOMBESI	PAOLO		DEPT PHYSICS P.A. WORD 2	ROME	00185	ITALY
TOMPKIN	WAYNE	UNIVERSITY OF ROCHESTER	63 LILAC DRIVE, APT 5	ROCHESTER, NY	14620	USA
TOSCHEK	PETER E	UNIVERSITY OF HAMBURG	JUNGENSTRASSE 9	D-2000 HAMBURG 36	60208	FED REP GERM
TREDICCE	JORGE	DREXEL UNIVERSITY	32ND AND CHESTNUT ST	PHILADELPHI, PA	19104	USA
TRIPPENBACH	MAREK	UNIVERSITY OF COLORADO	JILA	BOULDER, CO	80309	USA
TRONBETTA	FABIO	UNIVERSITY OF PALERMO	ISTITUTO DI FISICA	PALERMO	90123	ITALY
TRONBETTA	FABIO	UNIV OF PALERMO	INST DI FISICA	PALERMO	90123	ITALY
TUCCI	ROBERT	RIT LINCOLN LABS	PO BOX 73	LEXINGTON, MA	02173	USA
UPPAL	J	HERIOT-WATT UNIVERSITY	PHYSICS DEPARTMENT	EDINBURGH		UK
VALEE	REAL	UNIVERSITE LAVAL	PHYSICS DEPARTMENT	STE-FOY	61K7P4	CANADA
VAN D HEUVELL	HENRICUS	FOM-INSTITUTE	KRUISLAAN 407	AMSTERDAM	109857	NETHERLANDS
VANASSE	GEORGE	AIR FORCE GEOPHYSICS LAB	71 OLD STAGE ROAD	CHELMSFORD, MA	01824	USA
VANASSE	GEORGE	AIR FORCE GEOPHYSICS LAB	71 OLD STAGE RD	CHELMSFORD, MA	01824	USA
VERURI	GAUJAN	GEORGIA TECH	SCHOOL OF PHYSICS	ATLANTA, GA	30332	USA
VILASECA	RAMON	UNIVERSITAT DE VALENCIA	DEPT OPTICA	BURJASSOT	46100	SPAIN
VTAS	REETA	UNIVERSITY OF ARKANSAS	PHYSICS DEPT	FAYETTEVILLE, AR	72701	
WALLS	DANIEL	UNIVERSITY OF AUCKLAND	PHYSICS DEPARTMENT	AUCKLAND		NEW ZEALAND
WALMSLEY	IAN A	UNIVERSITY OF ROCHESTER	THE INSTITUTE OF OPTICS	ROCHESTER, NY	14627	USA
WALTHER	HERBERT	WPI FUER QUANTUMOPTIK		GARCHING	8046	FED REP GERM
WANG	WEIJIAN	UNIVERSITY OF ROCHESTER	223C COMANT ROAD	ROCHESTER, NY	14623	USA
WANG	LIJUN	UNIVERSITY OF ROCHESTER	DEPT OF PHYSICS	ROCHESTER, NY	14627	USA
WEIS	ANTOINE	ETH-HONGGERBERG	INST HIGH ENERGY PHYS	ZURICH	8095	SWITZERLAND
WEISS	CARL	PHYS TECH BUNDESANSTALT	LAB 4.42	BRAUNSCHWEIG	D-3300	FED REP GERM
WESTLING	LYNN	SWARTHMORE COLLEGE		SWARTHMORE, PA	19081	USA
WHITNEY	KENNETH	NAVAL RESEARCH LAB	4595G SAHLEE CT	ALEXANDRIA, VA	22312	USA
WHITTAKER	EDWARD	STEVENS INST OF TECH	DEPARTMENT OF PHYSICS	HOBOKEN, NJ	07030	USA
WINFUL	HERBERT	UNIVERSITY OF MICHIGAN	EECS DEPT	ANN ARBOR, MI	48109	USA
WINFUL	HERBERT	UNIVERSITY OF MICHIGAN	EECS DEPT	ANN ARBOR, MI	48109	USA
WODKIEWICZ	KRZYSZTOF	WARSAW UNIVERSITY	INST THEORETICAL PHYSIC	WARSAW	00681	POLAND
WOERNER	HAN	UNIVERSITY OF LEIDEN	PO BOX 9504	LEIDEN	2300RA	NETHERLANDS
WOLF	EMIL	UNIVERSITY OF ROCHESTER	PHYSICS DEPARTMENT	ROCHESTER, NY	14627	USA
WONG	FRANCO MC	RIT	ROOM 36-487	CAMBRIDGE, MA	02139	USA
WYNNE	KLAAS	UNIVERSITY OF AMSTERDAM	WIEDE ACHTERGRACHT 127	AMSTERDAM	1018WS	NETHERLANDS
YAMADA	KEIICHI Y	NEW YORK UNIVERSITY	4 WASHINGTON PLACE	NEW YORK, NY	10003	USA
YAMAMOTO	YOSHINISA	NTT BASIC RESEARCH LAB	3-9-11, NIDORICHU	TOKYO	155	JAPAN
YEAZELL	JOHN A	UNIVERSITY OF ROCHESTER	INSTITUTE OF OPTICS	ROCHESTER, NY	14627	USA
YUEN	HORACE	NORTHWESTERN UNIVERSITY	3020 KIESS DRIVE	GLENVIEW, IL	60025	USA
YURKE	BERNARD	AT&T BELL LABS	600 MOUNTAIN AVE	MURRAY HILL, NJ	07974	USA
ZAIDI	HAIDER	UNIV OF NEW BRUNSWICK	UNIV OF NEW BRUNSWICK	FREDERICTON, NB	E3B5A3	CANADA
ZHU	SHI-YAG	UNIVERSITY OF NEW MEXICO	DEPT OF PHYSICS	ALBUQUERQUE, NM	87131	USA
ZHU	YIFU	UNIVERSITY OF OREGON	DEPARTMENT OF PHYSICS	EUGENE, OR	97403	USA
ZHU	CHANG	UNIV OF SOUTHERN CALIF	CEN FOR LASER STUDIES	LOS ANGELES, CA	90089	USA
ZOLLER	PETER	UNIVERSITY OF INNSBRUCK	LOFELERWEG 40 A	INNSBRUCK	6020	AUSTRIA
ZOL	XINGTU	UNIVERSITY OF ROCHESTER	DEPT OF PHYSICS	ROCHESTER, NY	14627	USA

June 27, 1989

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REGISTRATION LIST

LASTNAME	FIRSTNAME	ORGANIZA	ADDRESS1	ADDRESS2	MAIL CODE	COUNTRY
ZUBAIRY	M. SUHAIL	QUAID-I-AZAM UNIV		ISLAMABAD	00661	PAKISTAN

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