

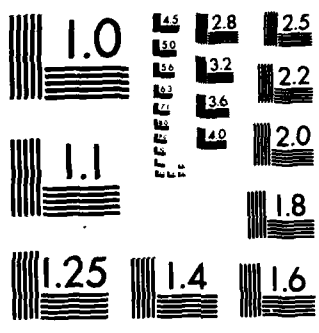
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ONR LONDON REPORT

R-7-84

OFFICE OF NAVAL RESEARCH

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OFFICE
LONDON
ENGLAND

PHYSICS IN EUROPE--A DATA FILE OF SELECTED RESEARCH

DAVID MOSHER

18 June 1984

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER R-7-84	2. GOVT ACCESSION NO. AD-A143428	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Physics in Europe--A Data File of Selected Research		5. TYPE OF REPORT & PERIOD COVERED Technical
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) David Mosher		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS US Office of Naval Research Branch Office London Box 39 FPO NY 09510		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE 18 June 1984
		13. NUMBER OF PAGES 187
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		15. SECURITY CLASS. (of this report)
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Physics Data file European research		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) ➤ This report describes a data file of 1200 entries on European research in physics and related areas. The tables provided allow one to access research projects by subject matter and location. ↵		

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CONTENTS

	<u>Page</u>
The Database	1
File Anatomy	2
Using the Data File	3
Biases	4
Acknowledgement	5
Appendix A: Contributions to <i>European Scientific Notes</i>	6
Appendix B: Full File Listing	13
Appendix C: Subject List	137
Appendix D: Location List	163

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PHYSICS IN EUROPE--A DATA FILE OF SELECTED RESEARCH

In preparation for my 2-year tour as Liaison Scientist with the Office of Naval Research, London (ONRL), I began in 1981 to compile a hard-copy file of excerpts from the scientific literature composed of interesting European research in physics and related areas and grouped according to discipline and application. This project continued for the duration of my ONRL tour. To manage the large body of accumulated information and to make it accessible and useful to other researchers, a computerized data file was developed. The file currently occupies approximately half of an 8-inch, single-density, floppy disk (IBM Diskette). It was compiled and manipulated by the IBM Displaywriter System (already installed at ONRL) using the file management software contained on the IBM Report Pack Diskette. This report introduces the data file and presents the 1200 entries in a form useful to scientists for planning contact with European researchers and accessing their work.

The Database

Entries to the data file were excerpted primarily from 20 routinely scanned journals, periodicals, and fact sheets. These sources were selected from those available at ONRL to provide detailed European coverage of plasma physics, controlled fusion, and related research; good coverage of significant advances in other fields of physics; and highlights of important results in related physical sciences of interest to the US Navy. The routinely scanned sources are grouped according to the degree of coverage.

Those for plasma physics and controlled fusion are: *Nuclear Fusion*, published by the International Atomic Energy Agency, Vienna; *Physics of Fluids*, published by the American Institute of Physics; and *Plasma Physics*, recently renamed *Plasma Physics and Controlled Fusion*, a Europhysics Journal published by the UK Institute of Physics and Pergamon Press.

The general physics journals are: *Applied Physics Letters*, *Journal of Applied Physics*, *Physics of Fluids*, *Physical Review A (General Physics)*, *Physical Review Letters*, and *Physics Today*, published by the American Institute of Physics and/or the American Physical Society; *Europhysics News (The European Physical Society Bulletin)*, *Journal of Physics A (Mathematics and General)*, *Journal of Physics B (Atomic and Molecular)*, *Journal of Physics D (Applied Physics)*, *Physics Letters*, and *Reports on Progress in Physics*, published by the European Physical Society and the UK Institute of Physics.

The general science publications are: *Nature*, published by MacMillan Journals Ltd.; *New Scientist*, published by New Scientist Publications, London; and *Science*, published by the American Association for the Advancement of Science.

In addition to the above well-known journals, the following more specialized sources were also routinely scanned: *CERN Courier (International Journal of High Energy Physics)*, published by the European Laboratory for Particle Physics; *EOARD Proposals and Project Briefs*, distributed by the US Air Force European Office of Aerospace Research and Development, London; *Energy Report (Energy Policy and Technology News Bulletin)*, published by Microinfo Ltd., Alton, Hamps.; and *USARSG R and D Proposal Files*, distributed by the US Army Research, Development and Standardization Group, London.

A large number of entries are excerpted from the proceedings of conferences attended during the past 2 years. These include:

- Solitons '82--The Scott Russell Centenary Conference, 23-27 August 1982, Edinburgh;

- The Fourth International Symposium on Gas Flow and Chemical Lasers, 13-17 September 1982, Stresa;
- The Challenge of Ultra-High Energies, 27-30 September 1982, Oxford;
- The Seventh International Conference of IR and MM Waves, 14-18 February 1983, Marseille;
- The Symposium on International Facilities for Physics Research, 21-23 March 1983, Copenhagen;
- The Third International Conference on Emerging Nuclear Systems, 6-9 June 1983, Helsinki;
- The Seventh International Conference on VUV Radiation Physics, 8-12 August 1983, Jerusalem;
- The Fifth International Conference on High-Power Particle Beams, 12-14 September 1983, San Francisco;
- The 16th European Conference on Laser Interactions with Matter, 26-30 September 1983, London;
- The Royal Society Meeting for Discussion on Optical Bistability, Dynamical Nonlinearity, and Photonic Logic, 21-22 March 1984, London.

Other journal and meeting references appear in the file as results of follow-up investigations or discussions with scientists. Research projects described in articles I wrote for *European Scientific Notes (ESN)* are referenced accordingly. A list of these articles with brief abstracts is provided in Appendix A.

File Anatomy

The data file consists of about 1200 records--each record recording a particular European research activity. Every record consists of 10 alphanumeric fields containing specific information. Individual fields can be independently searched, formatted, and manipulated (alphabetized, etc.) to form various lists. The fields are described below.

Rec ID. A five-character field containing the identifying number of the record. The number is given by the word processor when data for the record is entered.

Topic. A six-character field of upper-case letters describing the general research discipline of the record. There are 13 topics currently listed within the data file:

- ATOMIC--Atomic and molecular physics, spectroscopy, and bond structure;
- BASICS--Mathematics and fundamental physics, emphasizing current problems in fractal geometry, percolation, nonlinear dynamics, and self-avoiding walks;
- BMSRAD--Particle and radiation physics, charged particle accelerators, neutron sources, synchrotrons, free electron lasers based on conventional accelerators, electromagnetic theory, high-intensity lamps;
- CHEMAT--Industrial chemistry and materials processing, catalysts, laser processing, solid state fabrication, nondestructive testing;
- COMPUT--Computing and data processing, artificial intelligence, robotics, displays, fluid codes;
- CPBICF--Inertial confinement fusion, pulsed power technology, charged particle beams created with dielectric-pulse-line technology, free electron lasers based on this technology, dense plasma physics and diagnosis, and plasma radiation sources;

DIAGNO--Diagnostic techniques and tools for all areas of research (except plasma physics), microscopy, holography, beam probes, ultrasonics, x-ray optics;

ENERGY--Energy and environmental research; solar energy; geothermal, wave, and wind powers; pollution;

HYDROD--Hydrodynamics, fluid mechanics, oceanography, reacting flows, nonlinear convection, acoustic and water waves, turbulence, shocks;

LASERS--Laser research and development, performance, gas kinetics, nonlinear optics, pumps, mode analysis and conversion. Laser applications are listed under other topics;

PLASMA--Magnetic confinement fusion, low-density plasma physics and diagnosis, waves and instabilities;

SOLIDS--Solid state and condensed matter physics, electronics, integrated circuits, optical bistability and logic, superconductors, nonlinear behavior;

WETHER--Atmospheric, ionospheric, and solar physics; communication by electromagnetic wave propagation; remote sensing; and meteorology.

KW1, KW2, KW3. Three, 18-character key-word fields specifying the details of research for each record. Usually, KW1 is the most general modifier of the topic, KW3 the most specific. Often, KW3 specifies a method or technique used to carry out the research or indicates whether it is experimental, theoretical, or computational.

Country. A six-character field containing either the name of the country in which the research was conducted or an obvious abbreviation.

City. A 22-character field specifying the city in which the research was conducted. Major cities are identified by their English-language names.

Institute. A 30-character field containing the name of the institute in which the research was conducted. Usually, the highest level organization is specified--for example, the name of a university rather than a laboratory within it. Any particular institution name can either be in English or the native language, but all references to it are identical.

Name. A 16-character field containing the last name of either the lead author of the reference or the first European author.

Ref and Notes. An 80-character field containing a literature reference to the research described by the record. Infrequently, this field contains additional information about the reference or a note clarifying the subject matter.

Using the Data File

With access to an IBM word processing system, the best way to use the data file is to obtain a copy of the floppy disk containing it and carry out data searches. (To obtain a copy of the file, send a blank IBM Diskette to ONRL, Box 39, FPO, NY 09510.) The user may then also add to the file since the existing data occupies approximately one half of the disk. Alternately, one may use the three lists contained in the Appendices B, C, and D.

Appendix B contains the full contents of the data file in numerical order according to Rec ID and is formatted as shown at the top of each page. Appendix C, an alphabetized list of topic and key words, is used to locate research projects on specific subjects. The country is listed so that searches can be limited geographically along with Rec ID. Records of potential interest can be investigated by referring to the appropriate Rec ID in Appendix B to determine precise location and a technical reference. Appendix D lists all records alphabetically according to location, along with the topic for a determination of rough subject area and Rec ID for cross reference to Appendix B.

It is important to realize that research projects in a particular field may be found under a number of topics depending on specifics and emphasis. For example, projects associated with nonlinear dynamics--such as bistable, chaotic, or solitonic behavior--are found under BASICS if the work is purely mathematical or deals with simple electrical analogues. Research investigating the same phenomena appears under HYDROD if associated with fluid dynamics, under LASERS if associated with optical cavities filled with nonlinear gaseous media, under SOLIDS for semiconductor opto-electronic systems, and under PLASMA. In these cases, the specific medium investigated determines the topic.

Solid state research may be listed under ATOMIC if the main concern is band structure or spectroscopy, under CHEMAT if industrial processing is important, under DIAGNO if defect structure or topography are investigated, and under SOLIDS if electronic behavior is of primary interest. This example indicates how research projects are distributed according to emphasis.

The CPBICF and PLASMA topics are the most self-contained in this regard. All low-density plasma physics and magnetic confinement fusion studies are contained in PLASMA, including associated diagnostic techniques. Essentially all high-density plasma research (ablation plasmas, arcs, high-pressure discharges, and pinches), inertial confinement fusion research, and associated diagnostic techniques are contained in CPBICF. This topic also contains pulsed power research and development and free-electron-laser research based on pulse-line technology. Two notable exceptions are two-phase ablation flows associated with laser processing of materials (HYDROD) and high-pressure discharge lamps where their use as UV light sources is emphasized (BMSRAD).

One should rely on key words under a number of topics to identify research of interest rather than the contents of a particular topic.

Biases

The compiled data file cannot, by any measure, be considered a balanced presentation of physics research in Europe and is therefore inappropriate for demographic use. There are at least four reasons why this so. First, the standard literature base is limited to English-language publications that were continuously available at ONRL. Time constraints further limited the number which could be routinely read or scanned to those listed above. That list was chosen for comprehensive coverage in plasma physics, electromagnetic and intense charged particle beam physics. Coverage of work in other areas of physics and applied math was limited to that provided by leading general physics journals which (presumably) report on the more important research in diverse fields. Records of interesting work in other physical sciences, such as chemistry, energy and environment, and computer science, come from popular, general-science publications and are usually limited to news-making projects. A lopsided presentation also results from the large body of entries culled from the proceedings of attended meetings. These tend to emphasize the

importance of electromagnetic radiation physics in the microwave, infrared, and vacuum ultraviolet regimes and the associated solid state phenomena.

The second bias is the obvious one of expertise. Entries in BMSRAD, CPBICF, HYDROD, and PLASMA benefit from a knowledge of major research efforts and the literature, association with a large number of experts, and the ability to determine the importance of individual efforts. At the opposite extreme, entries in the condensed matter and solid state areas lack such discrimination, are limited to those which "pass before my eyes," and are included because of perceived interest in the US Navy's research community rather than a full understanding of their importance.

Third, personal interest in a few areas outside my expertise and preparation of background information for *ESN* articles have led to literature searches and subsequent unnatural "swellings" of the file in these areas. Of particular note are entries associated with nonlinear dynamics dealing with solitonic and chaotic behavior.

Fourth, a number of important areas of fundamental physics have been excluded from the file because they are not relevant to Navy programs. Entries in the broad category of astronomy and astrophysics are limited to the near-Earth studies of ionospheric and solar physics because phenomena in these fields can affect communications. Although a hard-copy file has been maintained of European research in deep-space and exotic astronomy, it has been left off the disk file. The same is true for research in elementary particle physics. Research with high-energy accelerators has been included only if probing radiation for material studies was an actual or potential end product or if the work is relevant to Department of Defense directed energy programs.

It is hoped that even with the above provisos, the data file will be useful for establishing European contacts and as a guide to at least some areas of European physics research.

Acknowledgement

The author is deeply indebted to Mrs. Donna Bruggeman, who entered the data, maintained the file, and skillfully manipulated its contents. This document could not have been produced without her efforts.

APPENDIX A:
CONTRIBUTIONS TO *EUROPEAN SCIENTIFIC NOTES*

ESN 36, 1982

page no.

- No. 8 High-Power Glass Laser Research at the Rutherford
 Appleton Laboratory and the Centre
 d'Etudes de Limeil 192

The Nd-glass laser research programs at the Rutherford
Appleton Laboratory and the Centre d'Etudes de Limeil are
discussed.

- No. 9 Solitons '82: The Scott Russell Centenary
 Conference Part I 219

In the first part of a two-part article reviewing the
Solitons '82 Conference, the history of solitary-wave
theory is briefly reviewed, and applications to hydrodynam-
ics and electronics are presented.

- No. 10 Solitons '82: The Scott Russell Centenary
 Conference Part II 267

In the second part of a two-part article reviewing the
Solitons '82 conference, applications of soliton theory to
condensed matter physics are presented, and applications to
other areas are noted.

- Short Wavelength Laser 271

Research at the Ecole Polytechnique in Palaiseau,
France, has demonstrated gain at 105.7 angstroms in recom-
bining lithium-like aluminum.

- No. 11 The Fourth International Symposium on Gas Flow
 and Chemical Lasers 303

Applications of gas lasers to materials processing and
atmospheric propagation presented at the 4th International
Symposium on Gas Flow and Chemical Lasers are reviewed.

- No. 12 Daresbury Revisited 345

The Daresbury Synchrotron Radiation Source is the
world's first high-energy electron accelerator dedicated to
radiation production for scientific experiments. Its
operational status and the current experimental program are
described.

- A Dutch Diagnostic Sampler 348

Laboratories in the Netherlands have developed several
new diagnostic techniques and processes related to plasma,
atomic, and molecular physics. The techniques are describ-
ed, and their applications to other research areas are
noted.

- No. 1 An Optical Diagnostic for High Current Measurements 30
- An optical Rogowski loop for high-current measurements with excellent voltage stand-off and bandwidth characteristics is described.
- New Concepts in Particle Acceleration 32
- New concepts for the acceleration of charged particles presented at "The Challenge of Ultra High Energies" conference held in Oxford in September 1982 are described.
- No. 2 Electroviscous Torque Transmission 73
- Mechanical engineers at the University of Liverpool have developed a clutch controlled by the application of an electric field in an electroviscous medium that has torque transmission, controlled damping, and braking applications.
- Laser Projection Video 75
- A novel video projection system employing modulation of three primary color laser beams is described. The system has wide commercial, industrial, research, and military applications involving the display of computer generated graphics.
- No. 3 Novel Plasma Annuli for Implosion Experiments 115
- A new technique for the production of plasma annuli researched at the Ecole Polytechnique, Palaiseau, France, is described. The plasma puff technique represents an important advance for the development of intense x-radiation sources.
- No. 4 Lightning Vulnerability Studies at the
 Culham Laboratory 148
- The Culham Lightning Studies Unit conducts a research program devoted to vulnerability testing of aircraft, ships, and ground-based installations. Lightning phenomena, the types of damage produced, and the CLSU research program are reviewed.
- No. 6 A Siting Proposal for ESRF 226
- The availability of synchrotron radiation from electron storage rings has been responsible for many recent advances in condensed matter research. In response to a European Science Foundation feasibility study, the Risø National Laboratory in Denmark has prepared a siting proposal for a new European Synchrotron Radiation Facility (ESRF) dedicated as an x-ray source for condensed matter studies.

New Directions for Physics Research in Greece 227

New legislation has changed the emphasis, administration, and teaching of physics in Greece. Prominent changes include the democratic election of department chairmen, redirection of research to high technology applications, and initiation of US-style training. Programs at four centers for research are discussed in light of these changes.

No. 7 Contact Electrification Research at UMIST 276

This is the first of two articles on static electrification research at the University of Manchester Institute of Science and Technology. Investigations of contact electrification of insulators by metals are described. The phenomenon is responsible for damage of semiconductor electronic components during manufacture. A discussion of static charging by collisions of aircraft with ice particles will appear in a future article.

Navy-Relevant Research at the University
of Liverpool 280

The Mechanical Engineering Department is performing research in hydrodynamics and aerodynamics of immediate interest to the US Navy.

No. 8 Neutron Beams Probe Condensed Matter at AERE 329

Research and development programs at the UK's Atomic Energy Research Establishment (AERE) are guided by the needs of the nuclear industry. This article provides basic information about the interaction of low energy neutrons with matter, describes neutron sources available at AERE and elsewhere for material physics, and presents some highlights of condensed matter studies at AERE.

No. 9 A New Gas-Puff Plasma Source for X-Radiation 373

Preliminary results of a new gas-puff plasma radiator experiment at Imperial College, London, are presented. The x-ray source will be used to study photo-pumping of x-ray lasers.

Static Charging of Aircraft by Collisions
with Ice Particles 376

The University of Manchester Institute of Science and Technology is examining the static electrification of aircraft moving through ice storms. Use of modern insulating components such as fiber composites increases the threat of static-charge-induced breakdowns.

No. 10/11	A UK Free Electron Laser	419
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The UK's Science and Engineering Research Council is funding a new free electron laser project. The objective of the project is demonstration of high gain and power, tunable over the 2.0- to 20- μ m region of the infrared spectrum, for applications to laser photochemistry, isotope separation, and solid state physics.

Infrared Atmospheric Transmittance	424
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Research at Technion is providing infrared atmospheric transmission data over long path lengths in various climates. Results are important for electro-optic communications and are used to check predictions of codes developed by the US Air Force.

No. 12	A New Diagnostic Technique for Collective Ion Acceleration	472
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The Weizmann Institute of Science in Rehovot, Israel, has developed a new diagnostic tool to probe the structure of the electric field in collective ion acceleration experiments.

ESN 38 (1984)

No. 1	Channeling Research in Switzerland	42
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High-energy positrons and electrons incident at small angles on crystal planes experience strong electrostatic steering forces which guide the particles and cause oscillations in their orbits. This phenomenon is under study at CERN with a view toward developing coherent gamma-ray sources. A group at the Swiss Institute for Nuclear Research is studying channeling of muon-decay positrons as a new means to probe the electronic structure of semiconductors.

Muon-Catalyzed Fusion	46
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Muon-catalyzed fusion may be scientifically feasible, but it will be interesting for commercial power production only if the high energy cost of creating the muons with an accelerator can be offset by incorporating fissile-fuel breeding assemblies to boost energy gain.

No. 2	New Flexibility for Plasma Radiation Sources	93
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Researchers in the Federal Republic of Germany have developed the gas-liner pinch to overcome limitations of gas-puff plasma radiation sources.

	X-Ray Laser Research Reported at ECLIM	101
	Although the focus of the 16th European Conference on Laser Interactions with Matter (ELCIM) was inertial confinement fusion, a number of presentations dealt with experiments and theory concerning soft x-ray lasers. Results in this area are presented.	
No. 3	A 50-Picosecond Gated X-Ray Intensifier	140
	British researchers have developed a gated x-ray intensifier with the high spatial and temporal resolution required for the diagnosis of laser-driven plasmas and for pulsed-power x-ray sources.	
	Material-Response Research with High Power Gas Lasers	142
	Work at the University of Düsseldorf is devoted to the refinement of high-power, continuous-wave lasers for materials research and processing and the interaction of such lasers with matter. Although not the intent, some research results address issues important to directed energy applications.	
No. 4	Operation of a Storage Ring FEL	206
	A French-American collaboration working at the University of Paris-Sud has reported the first successful operation of a free electron laser in a storage ring.	
	Progress in Plasma Puff Research in France	211
	A new interferometry technique used for neutral density measurements on annular imploding plasma loads leads recent advances in research at the Ecole Polytechnique (Palaiseau, France).	
No. 5	An Adaptive Mesh Technique for the Solution of Radiation-Hydrodynamic Equations	275
	Researchers at the Max Planck Institute for Physics and Astrophysics have developed an implicit finite-difference technique designed to locate and track arbitrary shock fronts, interfaces, and other narrow structures in a radiation-hydrodynamic flow. Computational results are impressive.	
	A New Type of Natural Radioactivity	279
	Physicists at Oxford University have discovered a new form of natural radioactivity: the emission of carbon by unstable nuclei.	

No. 6	Computer Analysis of a Turbulent Mixing Layer	327
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Researchers in Spain have developed digital-image-analysis techniques to probe the dynamic evolution of large eddies in a plane mixing layer.

Guerre d'Etoile--French Research in Atmospheric Electron-Beam Propagation	331
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French scientists have begun experiments designed to test a multifluid plasma code that models the atmospheric response to defense-level relativistic electron beams.

Appendix B:
Full File Listing

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
1	PLASMA EM waves		dispersion	variational prin.	
Nether Eindhoven			Eindhoven Univ. of Tech.		Broer
Phys. Lett. 92, no.5 (1982)					
2	PLASMA 2D oscillations		plasmons	Bose-Einstein	
Austri Innsbruck			Univ. Innsbruck		Hopfel
Phys. Rev. Lett. 49, no.22 (1982)					
3	PLASMA disruption		Alfven waves	tokamak	
Switz Lausanne			Ecole Poly. Federale		de Chambrier
Phys. Lett. 92A, no.6, p279 (1982)					
4	CPBICF HIF		emittance	space charge	
W Ger Garching			MPI fur Plasmaphysik		Hofmann
private comm.					
5	PLASMA ion-ion		instability	nonlinear	
Denmrk Roskilde			Riso Nat. Lab.		Pecseli
Phys. Rev. Lett. 48, no.19 (1982)					
6	CPBICF coronas		space charge	drift approx.	
Norway Trondheim			Norwegian Inst. of Tech.		Sigmond
J. Appl. Phys. 53, no.2 (1982)					
7	CPBICF LIB		slowing down	plasma target	
Israel Rehovot			Weizmann Inst. of Sci.		Zinamon
WIS-82/22-May-Ph					
8	CPBICF REB		enhanced deposit	k-alpha	
Israel Rehovot			Weizmann Inst. of Sci.		Nardi
WIS-82/39-July-Ph					
9	CPBICF laser		Rayleigh Taylor	target instab.	
UK Didcot			Rutherford Appleton Lab		Evans
Phys. Rev. Lett. 49, no.22 (1982)					
10	CPBICF HIF		high gain	targets	
W Ger Karlsruhe			Kernforsch. Karlsruhe		Long
Phys. Lett. 91A, no.9 (1982)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
11	CHEMAT	laser	applications	manufacturing	
Italy	Turin		Fiat Auto S.P.A.		La Rocca
Sci. Am.					
12	CHEMAT	zeolite	photoproduction	ammonia	
UK	Bath		Univ. of Bath		Yue
New Scientist, p773, 10 Dec 81					
13	CHEMAT	diffusion	aluminum	iron	
Finlnd	Helsinki		Univ. of Helsinki		Hirvonen
J. Appl. Phys. 53, no.4 (1982)					
14	CHEMAT	laser	welding	CO2	
UK	Abingdon		Culham Lab.		
New Scientist, p780, 25 Mar. 82					
15	CHEMAT	engine	internal combus.	model	
Israel	Beer-Sheva		Ben Gurion Univ. Negev		Aizenbud
J. Appl. Phys. 53, no.3 (1982)					
16	CHEMAT	shock loaded	stresses	determination	
France	Gramat		Centre d'Etudes de Gramat		Chartagnac
J. Appl. Phys. 53, no.2 (1982)					
17	CHEMAT	zeolite	ZSM-5	structure	
UK	Cambridge		Univ. of Cambridge		Thomas
New Scientist, p435, 18 Nov 82					
18	CHEMAT	PECVD	nitride	deposition	
Czech	Prague		Inst. of Plasma Physics		Bardos
J. Phys. D15, pL79 (1982)					
19	ENERGY	CO2	global model	predictions	
UK	Leeds		Univ. of Leeds		Lockwood
Nature 299, p203, 16 Sep 82			mtg. report		
20	CHEMAT	water splitting	photochemical	hydrogen	
Switz	Lausanne		Ecole Poly. Federale		Gratzel
New Scientist, p768, 16 Sept 82					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
21	ENERGY pollution		detector	trout	
France	Paris		Univ. Pierre et Marie Curie		Huve
New Scientist, p90, 14 Oct 82					
22	HYDROD wave power		focusing	bay contour	
Norway	Oslo		Central Inst. for Indus. Res.		Mehlum
New Scientist, p599, 3 Sept 81					
23	ENERGY solar ponds		house heating		
UK	London		Queen Mary College		Colbeck
New Scientist, p735, 17 Sept 81			and Solar Energy 19, p321		
24	ENERGY purple membrane		solar energy	bacteria	
Israel	Rehovot		Weizmann Inst. of Sci.		Caplan
New Scientist, p160, 15 Oct 81					
25	ENERGY oil pollution		polymer	solidification	
UK	Sunbury		Brit. Petrol Res. Lab.		Beynon
New Scientist, p676, 11 June 81.			near London		
26	ENERGY acid rain		nitrites	historical	
UK	Norwich		Univ. of East Anglia		Brimblecombe
Nature 298, p460, 29 July 82					
27	ENERGY photovoltaic		review	energy	
Belgium	Heverlee		Lab. ESAT		Van Overstraeten
Rep. Prog. Phys. 49, p1041 (82)					
28	ENERGY electromechanical		energy	magnetic field	
France	Compiègne		Univ. de Tech. de Compiègne		Biedinger
J. Appl. Phys. 53, no.10 (1982)					
29	ENERGY wind power		turbine	national grid	
UK	Carmarthen Bay		Central Elec. Gen. Board		Rees
New Scientist, p505, 25 Nov 82					
30	HYDROD wave power		oscillating	water column	
UK	East Kilbride		Nat. Engng. Lab.		Elliot
New Scientist, p422, 18 Nov 82					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
31	WETHER acoustic		gravity waves	ionosphere	
UK	Leicester		Univ. of Leicester		Jones
Nature 299, p488, 7 Oct 82					
32	WETHER bacteria		cloud seeding	rain making	
Israel	Tel Aviv		Tel Aviv Univ.		Yanofsky
New Scientist, p219, 23 July 81					
33	WETHER ECH waves		magnetosphere	GEOS	
Sweden	Umea		Kiruna Geophys. Inst.		Ronnmark
Nature 294, p338, 26 Nov 81		see below			
34	WETHER ECH waves		magnetosphere	variations	
UK	Brighton		Univ. of Sussex		Horne
Nature 294, p338, 26 Nov 81		see above			
35	WETHER Aurora		radar	Eiscat	
Sweden	Umea		Kiruna Geophys. Inst.		
New Scientist, p642, 10 Sep 81					
36	WETHER solar wind		Mars	Venus	
UK	Cardiff		Univ. College		Wallis
Nature 298, p229, 15 July 82					
37	WETHER magnetic field		temperature	correlation	
France	Paris		Univ. of Paris		Courtillot
New Scientist, p775, 17 June 82		also Toulouse			
38	WETHER ionosphere		radio waves	reflectivity	
W Ger	Lindau		MPI fur Aeronomie		Kopka
Nature 295, p680, 25 Feb 82		also Leicester			
39	LASERS CO2		charge circuits	performance	
UK	Bristol		British Aerospace Dynamics		Cridland
J. Appl. Phys. 53, no.6 (1982)					
40	LASERS CO2		impedance	fluctuations	
Poland	Warsaw		Warsaw Tech. Univ		Nowicki
J. Phys. D15, p1165 (1982)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
41	LASERS	CO	gas mixing	modeling	
Israel	Haifa		Technion		Tilleman
J. Appl. Phys. 53, no.5 (1982)					
42	LASERS	dye	photon statistics	model of expt.	
W Ger	Essen		Univ. Essen		Graham
Phys. Rev. Lett. 48, no.20 (1982)					
43	LASERS	CO2	TE	spark arrays	
UK	Bristol		British Aerospace Dynamics		Cridland
J. Appl. Phys. 53, no.2 (1982)					
44	LASERS	DIMER	NA2	operation	
Switz	Bern		Univ. of Bern		Schweille
J. Appl. Phys. 53, no.3 (1982)					
45	LASERS	two photon	Lithium vapor	dye laser excited	
W Ger	Heidelberg		Univ. of Heidelberg		Nikolaus
New Scientist, p344, 6 Aug 81. and Phys. Rev. Lett. 47, p171 (1981)					
46	LASERS	levitation	.1 mm spheres	argon 1-10 W	
France	Orsay		Inst. d'Optique		Roosen
Laser Focus. Aug. 1982, pp22-26					
47	LASERS	HCl	vibrational	Ar/HCl mixture	
Israel	Jerusalem		Hebrew Univ.		Rokni
Appl. Phys. Lett. 41, no.2 (1982) R.E. Center et al.					
48	LASERS	gamma ray	optically pumped	theory	
Roman	Bucharest		Central Inst. of Physics		Olariu
J. Appl. Phys. 53, no.7 (1982) C.B. Collins et al.					
49	LASERS	XUV	carbon	recombination	
UK	Hull		Univ. of Hull		Pert
New Scientist, p910, 30 Sept 82					
50	LASERS	IR	CF4	optically pumped	
UK	Abingdon		Culham Lab.		Stamatidis
J. Phys. B15, p3639 (1982)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
51	ENERGY	isotope separation	uranium	CF4 and CO2	
Israel	Haifa		Technion		Koren
Appl. Phys. Lett. 41, no.5 (1982)					
52	LASERS	semiconductor	picosecond pulses	GaAs DH laser	
W Ger	Berlin		Inst. fur Festkorperphysik		Klein
Appl. Phys. Lett. 41, no.5 (1982)					
53	LASERS	CO2	TE	photoionization	
UK	Glasgow		Univ. of Strathclyde		Scott
Appl. Phys. Lett. 41, no.9 (1982)					
54	SOLIDS	laser	annealing	silicon	
France	Meylan		Cen. Nat. d'Etudes Telecom.		Colinge
Appl. Phys. Lett. 41, no.4 (1982)					
55	SOLIDS	Schottky diode	mixer	light & microwaves	
W Ger	Garching		MPI fur Quantenoptik		Daniel
Appl. Phys. Lett. 41, no.4 (1982)					
56	SOLIDS	silicon	ribbon growth	electron bombard	
France	Lyon		Inst. Nat. de Sci. Appliquees		Casenave
Appl. Phys. Lett. 40, no.8 (1982)					
57	SOLIDS	superconductors	organic		
Denmark	Copenhagen		Univ. of Copenhagen		Bechgaard
Sci. Am. with Denis Jerome, Univ. Paris Sud					
58	SOLIDS	change of state	molec. rearrange	computer	
UK	Edinburgh		Univ. of Edinburgh		Pawley
New Scientist, p20, 1 April 82					
59	SOLIDS	optical recording	silicon	laser annealing	
Israel	Haifa		Technion		Janai
J. Appl. Phys. 53, no.3 (1982)					
60	SOLIDS	flat displays	LCD	color	
UK	Great Malvern		Royal Sig. & Radar Estab.		Hilsum
New Scientist, p376, 5 Nov 81			team at Dundee U.		

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
61	SOLIDS photoresist		gratings	fabrication	
Israel	Tel Aviv		Tel Aviv Univ.		Kapon
J. Appl. Phys. 53, no.3 (1982)					
62	SOLIDS rare-earths		applications	mtg review	
UK	Wembley		Hirst Research Centre	GEC	Kelly
Nature 296, p310, 25 Mar 82, European contributions					
63	SOLIDS memory		superconducting	Josephson	
W Ger	Tubingen		Univ. Tubingen		Parisi
Appl. Phys. Lett. 40, no.10 (1982)					
64	SOLIDS polysilicon		transistors	laser annealing	
France	Lannion		Cen. Nat. d'Etudes Telecom.		Morin
J. Appl. Phys. 53, no.5 (1982)					
65	SOLIDS conducting		plastics	polyacetylene	
UK	London		Queen Mary College		Boor
New Scientist, p577, 4 Mar 82					
66	SOLIDS Josephson junction	fluxons		dynamics	
Denmark	Lyngby		Tech. Univ. of Denmark		Joergensen
Phys. Rev. Lett. 49, no.15 (1982)					
67	SOLIDS microcircuit		limitations	size	
Sweden	Goteborg		Chalmers Univ. of Tech.		Wallmark
Institute of Physics 1982, 0031-9112/82/100362					
68	COMPUT AI		dataflow	processor	
UK	Manchester		Manchester Univ.		Gurd
New Scientist, p358, 5 Aug 82					
69	COMPUT graphics		3D modeling		
UK	Leeds		Univ. of Leeds		de Pennington
New Scientist, p913, 30 Sept 82					
70	COMPUT image processing	speckle		fluid flow	
Belgium	Brussels		Univ. Libre de Bruxelles		Meynant
Rev. Sci. Instrum. 53, no.1 (1982)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
71	COMPUT AI		music	composing	
UK	Surrey		Univ. of Surrey		Maconie
New Scientist, p206, 22 April 82					
72	COMPUT AI		voice recognition	Logos	
UK	Cheltenham		Govt. Communications HQ		Holmes
New Scientist, p510, 19 Nov 81					
73	COMPUT graphics		3D movie	haemoglobin	
UK	London		Univ. of London		Clark
New Scientist, p775 10 Dec 81					
74	COMPUT information		processing	limitations	
UK	Oxford		Oxford Univ.		Deutsch
Phys. Rev. Lett. 48, no.4 (1982)					
75	COMPUT robotics		laser	range finder	
France	Paris		INRIA		
New Scientist, p234, 28 Oct 82					
76	COMPUT 3D		display	laser on helix	
W Ger	Heidelberg		Univ. of Heidelberg		Hartwig
New Scientist, p358, 11 Nov 82					
77	HYDROD sea water		eqn. of state	high pressure	
UK	Plymouth		Marine Biological Assoc. of UK		Whitfield
Nature 297, p538, 17 June 1982					
78	HYDROD chaos		acoustic	cavitation	
W Ger	Gottingen		Univ. of Gottingen		Lauterborn
Phys. Rev. Lett. 47, no.20 (1981)					
79	HYDROD ocean floor		conductivity	EM sounding	
UK	Godalming		Inst. of Oceanographic Sci.		Francis
Nature 295, p550, 18 Feb 1982					
80	WETHER breaking wave		side-scan sonar	bubbles	
UK	Godalming		Inst. of Oceanographic Sci.		Thorpe
Nature 296, p637, 13 April 82					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
81	HYDROD	sea ice	dielectric const.	high frequency	
Norway	Bergen		Univ. of Bergen		Farrelly
J. Appl. Phys. 53, no.2 (1982)					
82	HYDROD	electrohydro	stability	thermal grad.	
Spain	Madrid		Univ. Auto. de Madrid		Castellanos
Phys. Fluids 24, no.10 (1981)					
83	HYDROD	Antarctic	ice sheet	model	
Nether	Utrecht		Univ. of Utrecht		Oerlemans
Nature 297, p550, 17 June 82					
84	DIAGNO	electron micro.	imaging	tunnel current	
Switz	Zurich		IBM Zurich Research Lab.		Epperlein
Phys. Lett. 92A, no.3, p146 (1982)					
85	DIAGNO	chemical micro.	photoelectron	energy resolved	
UK	Oxford		Oxford Univ.		Turner
Nature 290, p556 and New Scientist, 21 May 81, p490					
86	DIAGNO	holography	vibration	Doppler effect	
UK			Rank Wharfedale		Fryer
New Scientist, p225, 23 July 81					
87	DIAGNO	holography	10 ps pulse	wavefront	
Sweden	Stockholm		Royal Inst. of Tech		Abramson
New Scientist, p465, 20 Aug 81					
88	DIAGNO	electron	absorp. spectra.	corrosion	
UK	Leeds		Univ. of Leeds		Griffiths
New Scientist, p667, 3 Dec 81					
89	DIAGNO	NMR	medicine	meeting report	
UK	Oxford		Oxford Univ.		Ross
New Scientist, p213, 22 April 82					
90	DIAGNO	optical fibers	stress cracks	marine structures	
UK	Cranfield		Cranfield Inst. of Tech.		Hockenhill
New Scientist, p798, 24 Sept. 81					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
91	DIAGNO x-ray		waveguide	imaging	
W Ger	Stuttgart		MPI fur Festkorperforschung		Fischer
Appl. Phys. Lett. 1.3.80 +preprint					
92	DIAGNO x-ray		energy	electron counting	
UK	Dorking		Mullard Space Sci. Lab.		Siegmund
Nature 295, p678, 25 Feb 82					
93	DIAGNO electron micro.		tunneling	topography	
Switz	Zurich		IBM Zurich Research Lab.		Binnig
Physics Today, April 82, p21.					
94	DIAGNO desorption		spectrometer	crystal	
Belgum	Liege		Univ. of Liege		Derochette
Rev. Sci. Instrum. 53, no.1 (1982)					
95	DIAGNO electron		monochrometer	low voltage	
Italy	Bari		Univ. of Bari		Calicchio
Rev. Sci. Instrum. 53, no.1 (1982)					
96	DIAGNO x-ray		interferometer	crystal	
W Ger	Stuttgart		MPI fur Festkorperforschung		Chang
Appl. Phys. Lett. 40, no.7 (1982)					
97	DIAGNO spectrometer		deuterium	water	
W Ger	Munich		Abteilung fur Okologische		Dumke
Rev. Sci. Instrum. 53, no.2 (1982)					
98	DIAGNO x-ray		scanning	radiography	
France	Reims		U.E.R. des Sciences		Cazaux
J. Appl. Phys. 53, no.4 (1982)					
99	DIAGNO aerosols		photoelectrons	Hg arc	
Switz	Zurich		Eidgenossisch Tech. H.S.		Burtescher
J. Appl. Phys. 53, no.5 (1982)					
100	DIAGNO holography		binary liquid	diffusion	
Poland	Warsaw		Univ. of Warsaw		Szydłowska
J. Phys. D15, p1385 (1982)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
101	DIAGNO	microscope	confocal	surface profile	
UK	Oxford		Oxford Univ.		Hamilton
J. Appl. Phys. 53, no.7 (1982)					
102	DIAGNO	atomic beams	scattering	vibrations	
W Ger	Göttingen		MPI for Fluid Dynamics		Brusleylins
Science 218, 1 Oct 82, p40, mtg. review					
103	DIAGNO	atomic beams	scattering	vibrations	
Nether	Noordwijk		Eur. Space Res. and Tech. Cen.		Feuerbacher
Science 218, 1 Oct 82, p41, mtg. review					
104	DIAGNO	atomic beams	scattering	vibrations	
Spain	Madrid		Univ. Auto. de Madrid		Benedek
Science 218, 1 Oct 82, p42, mtg. review					
105	DIAGNO	holography	gratings	profile model	
Sweden	Stockholm		Royal Inst. of Tech.		Lindau
Optica Acta 29, no.10 (1982)					
106	DIAGNO	neutrons	industry	applications	
UK	Birmingham		Univ. of Birmingham		Walker
Phys. Technol. 13, p239 (1982) (Inst. of Physics)					
107	DIAGNO	CR39	track detector	medicine & tech.	
UK	Bristol		Bristol Univ.		Henshaw
Phys. Technol. 13, p266 (1982) (Inst. of Physics)					
108	DIAGNO	x-ray	detector	satellite	
UK	Leicester		Univ. of Leicester		Turner
New Scientist, p142, 21 Oct 82					
109	DIAGNO	x-ray	microscopy	synchrotron	
UK	Warrington		Daresbury Lab.		Duke
Daresbury Lab Preprint DL/SCI/P 349E					
110	DIAGNO	contact image	energy transfer	100 nm	
W Ger	Göttingen		MPI für Biophysikalische Chemie		Fischer
Appl. Phys. Lett. 40, no.3 (1982)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
111	DIAGNO x-ray		mirrors	testing	
UK	Teddington		Nat. Phys. Lab.		Stedman
SPIE 316, High Resolution Soft X-Ray Optics (1981) Mtg Proc.					
112	DIAGNO x-ray		mirrors	testing	
UK	London		Imperial College		Mrowka
SPIE 316, High Resolution Soft X-Ray Optics (1981) Mtg Proc.					
113	DIAGNO x-ray		mirrors	testing	
W Ger	Sindelfingen		IBM Deutschland GmbH		Makosch
SPIE 316, High Resolution Soft X-Ray Optics (1981) Mtg Proc.					
114	DIAGNO x-ray		scattering	chloroplast	
W Ger	Berlin		Freie Univ. Berlin		Parodies
SPIE 316, High Resolution Soft X-Ray Optics (1981) Mtg Proc.					
115	DIAGNO x-ray		zone plate	microscopy	
W Ger	Göttingen		Univ. of Göttingen		Rudolph
SPIE 316, High Resolution Soft X-Ray Optics (1981) Mtg Proc.					
116	DIAGNO x-ray		microscope	synchrotron	
W Ger	Göttingen		Univ. of Göttingen		Niemann
SPIE 316, High Resolution Soft X-Ray Optics (1981) Mtg Proc.					
117	DIAGNO x-ray		gratings	astronomy	
W Ger	Garching		MPI für Physik und Astrophys.		Predehl
SPIE 316, High Resolution Soft X-Ray Optics (1981) Mtg Proc.					
118	DIAGNO x-ray		scattering	optical flats	
W Ger	Garching		MPI für Physik und Astrophys.		Brauninger
SPIE 316, High Resolution Soft X-Ray Optics (1981) Mtg Proc.					
119	DIAGNO x-ray		sources	testing	
W Ger	Garching		MPI für Physik und Astrophys.		Stephen
SPIE 316, High Resolution Soft X-Ray Optics (1981) Mtg Proc.					
120	PLASMA dense		quantum mech.	oscil. strength	
E Ger	Rostock		Wilhelm-Pieck Univ.		Hohne
J. Phys. B15, p2551 (1982)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
121	PLASMA	electron-hole	diffusion	magnetostatic	
W Ger	Bochum		Ruhr Univ.		Rahman
Phys. Rev. A26, p1120 (1982)					
122	PLASMA	diffusion	Fokker-Planck	boundary condition	
Norway	Trondheim		Univ. of Trondheim		Naqvi
Phys. Rev. Lett. 49, no.5 (1982)					
123	PLASMA	tearing modes	stability	tokamak	
W Ger	Garching		MPI fur Plasmaphysik		Kerner
Phys. Rev. Lett. 49, no.9 (1982)					
124	PLASMA	ion acoustic waves	beam excite	experiment	
France	St. Maur des Fosses		Cent. Res. Phys. de l'Environ		Pottelette
Phys. Lett. 91A, no.7 (1982)					
125	PLASMA	stellarators	status	future	
W Ger	Garching		MPI fur Plasmaphysik		Wobig
European Phys. Soc. Bull.					
126	PLASMA	neutral heating	confinement	tokamak	
UK	Abingdon		Culham Lab.		Gill
Phys. Lett. 91A, no.8 (1982)					
127	PLASMA	discharge	longitudinal waves	cathode	
Bulgar	Sofia		Inst. of Electronics		Vranchev
J. Phys. D15, p1419 (1982)					
128	PLASMA	discharge	microwave	diagnostic	
Italy	Genova		Ist. di Elettrotecnica		Cicconi
J. Phys. D15, p1403 (1982)					
129	PLASMA	drift velocity	Lorentz gas	Boltzmann Eqn.	
Norway	Trondheim		Univ. of Trondheim		Olaussen
J. Phys. A15, p3255 (1982)					
130	PLASMA	solid state	EM wave interac.	conductivity	
Denmrk	Aalborg		Aalborg Univ. Centre		Keller
Phys. Rev. A26, no.3 (1982)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
131	PLASMA	electron-hole	high temperature	instability	
France	Paris		Ecole Normale Supérieure		Combescot
Phys. Rev. Lett. 48, no.20 (1982)					
132	PLASMA	sound waves	collisional	correlations	
France	Grenoble		Inst. Laue-Langevin		Hansen
Phys. Fluids 25, no.4 (1982)					
133	PLASMA	electron-beam	filaments	turbulence	
Sweden	Umea		Univ. of Umea		Stenflo
Phys. Rev. Lett. 46, no.20 (1981)			Christiansen et al.		
134	PLASMA	instability	flr	rotational	
Nether	Eindhoven		Eindhoven Univ. of Tech.		Janssen
Phys. Fluids 25, no.2 (1982)					
135	PLASMA	Alfven waves	turbulence	magnetosphere	
W Ger	Bochum		Ruhr Univ.		Yu
Phys. Fluids 25, no.3 (1982)					
136	PLASMA	plasma focus	ion emission	Thompson analysis	
W Ger	Stuttgart		Univ. Stuttgart		Mozer
J. Appl. Phys. 53, no.4 (1982)					
137	PLASMA	strongly coupled	thermal cond.	simulation	
France	Paris		Univ. Pierre et Marie Curie		Bernn
Phys. Rev. Lett. 48, no.20 (1982)					
138	PLASMA	collisions	multipole	fast electrons	
UK	Abingdon		Culham Lab.		Holmes
Euroabstracts, Sec. 1, no.10, p489 (1982)					
139	PLASMA	rev. field pinch	helical field	CLEO	
UK	Abingdon		Culham Lab.		Robinson
Euroabstracts, Sec. 1, no.10, p489 (1982)					
140	PLASMA	RF heating	Alfven waves	AERH	
Switz	Lausanne		Ecole Poly. Federale		Appert
Euroabstracts, Sec. 1, no.10, p489 (1982)					

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<u>Country</u>	<u>City</u>	<u>Institute</u>			
<u>Ref and Notes</u>					
141	PLASMA toroidal z-pinch	stabilization	octopole		
Sweden Stockholm		Royal Inst. of Tech.			Dalhed
Euroabstracts, Sec. 1, no.10, p489 (1982)					
142	CPBICF HIF	slowing down	charge state		
Israel Rehovot		Weizmann Inst. of Sci.			Nardi
Phys. Rev. Lett. 49, p1251 (1982)					
143	BASICS vortices	superfluid He3	NMR		
Finland Helsinki		Helsinki Univ. of Tech.			Hakonen
Phys. Rev. Lett. 49, p1258 (1982)					
144	BASICS liquid helium	nucleation	critical point		
W Ger Garching		Tech. Univ. der Munchen			Alpern
Phys. Rev. Lett. 49, p1267 (1982)					
145	HYDPOD water wave	evolution	instability		
W Ger Essen		Univ. Essen			Laedke
Phys. Rev. Lett. 49, p1401 (1982)					
146	BASICS solitons	Sine-Gordon	quasiperiodic		
Poland Warsaw		Polish Acad. of Sci.			Jaworski
Phys. Lett. 92A, p427 (1982)					
147	PLASMA discharge	hollow cathode	magnetron		
Yugos Belgrade		Kidric Inst. of Nuclear Sci.			Miljevic
Phys. Lett. 92A, p439, (1982)					
148	LASERS chaos	bistable cavity	numerics		
UK Edinburgh		Heriot Watt Univ.			Firth
Phys. Lett. 92, no.5, p211 (1982).					
149	CPBICF fireball	generation	arc		
Nether Terneuzen		Zeldenrust College			Dijkhuis
J. Appl. Phys. 53, no.5, p3516 (1982).					
150	BASICS hydrogen	rf cavity	parity		
Switz Zurich		ETH Zurich			Robiscoe
J. Appl. Phys. 53, no.5, p3380 (1982).					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
151	HYDROD	chaos	temperature	Rayleigh-Benard	
Italy	Milan		Societa per Azioni	Giglio	
Phys. Rev. Lett. 47, no.4, p243 (1981).					
152	BASICS	chaos	electronic	nonlin circuit	
Italy	Florence		Univ. of Florence	Arecchi	
Phys. Rev. Lett. 49, no.2, p94 (1982).					
153	BASICS	Abel	inversion	integral eqn.	
Israel	Ramat-Gan		Bar-Ilan Univ.	Deutsch	
Appl. Phys. Lett. 41, no.1, p27 (1982).					
154	BASICS	chaos	chem diffusion	model	
Czech	Prague		Prague Inst. of Chem. Tech.	Schreiber	
Phys. Lett. 91, no.6, p263 (1982).					
155	BASICS	quantum mech.	Bells ineq.	two photon expt.	
France	Orsay		Univ. Paris Sud	Aspect	
Science 217, 30 July 1982, p435 & many others.					
156	BASICS	travelling	salesman	algorithm	
Czech	Bratislava		Inst. of Phys. and Biophys.	Cerny	
New Scientist, p554, 26 Aug 1982.					
157	BASICS	primes	tests		
France	Bordeaux		Univ. of Bordeaux	Cohen	
Sci. Am. Dec 82.					
158	BASICS	primes	tests		
Nether	Amsterdam		Univ. of Amsterdam	Lenstra	
Sci. Am. Dec 82.					
159	BASICS	primes	public key codes	cryptography	
Israel	Rehovot		Weizmann Inst. of Sci.	Shamir	
Sci. Am. Dec 82.					
160	BMSRAD	electrostatic	lenses	ray trace	
W Ger	Julich		Inst. fur Fest. der Kern.	Kisker	
Rev. Sci. Instrum. 53, no.1, p114 (1982)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
161	BMSRAD	neutron	Fresnel	zone plate	
France	Grenoble		Inst. Laue-Langevin		
New Scientist, p631, 2 Sept 1982.					
162	BMSRAD	heavy ion	accelerator	nuclear physics	
France	Caen		GANIL		Lefort
Physics Today, Oct 1982, p20.					
163	BMSRAD	neutrons	SNS	components	
UK	Didcot		Rutherford Appleton Lab.		
CERN Courier, Nov. 1982, p372.					
164	BMSRAD	arc lamps	mercury	acoustics	
W Ger	Aachen		Philips GmbH Forsch.		Schafer
J. Appl. Phys. 53, no.5, p3476 (1982).					
165	SOLIDS	organic	superconductor	TMTSF	
Denmrk	Lyngby		Tech. Univ. of Denmark		Bechgaard
New Scientist, p419, 18 Nov 1982.					
166	ATOMIC	heavy ion	wake	interference	
W Ger	Frankfurt		Goethe Univ.		Frischkorn
Phys. Rev. Lett. 49, no.22, p1671 (1982).					
167	ATOMIC	helium	ionization	ions	
Denmrk	Aarhus		Univ. of Aarhus		Haugen
Phys. Rev. A26, no.4, p1950 (1982). p1962 noble gases.					
168	ATOMIC	electron	backscatter	thin films	
W Ger	Berlin		Tech. Univ. Berlin		Niedrig
J. Appl. Phys. 53, no.4, pR15 (1982). review paper					
169	ATOMIC	optical	linewidth	subnatural	
Poland	Krakow		Univ. Jagiellonski		Gawlik
Phys. Rev. Lett. 48, p871 (1982).					
170	ATOMIC	hydrogen	atomic	stable	
Nether	Amsterdam		Univ. of Amsterdam		Silvera
New Scientist, p204, 22 Jan 1981.					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
171	ATOMIC	electron	spectroscopy	review	Siegbahn
Sweden	Uppsala		Uppsala Univ.		
Rev. Mod. Phys. 54, p709 (1982).					
172	ATOMIC	electron	mobility	gases	Braglia
Italy	Parma		Univ. di Padova		
Phys. Rev. A26, p902 (1982).					
173	PLASMA	ion beams	slowing down	nonequilibrium	Gryzinski
Poland	Swierk-Otwock		Inst. of Nuclear Research		
Nucl. Fusion 22, no.10, p1376 (1982).					
174	ENERGY	plastic sand	water retention	desert reclaim	Cooke
UK			Chemical Discoveries		
New Scientist, p443, 17 Feb 1983.					
175	COMPUT	robot arm	CO2 laser		Johnson
UK	Scunthrope		Flexible Laser Systems		
New Scientist, p806, 24 Mar 1983.					
176	DIAGNO	holography	nuclear reactors		Webster
UK	Marchwood		CEGB Engineering Labs.		
177	DIAGNO	holography	3d	tomography	Keane
UK			Royal Sussex County Hosp.		
178	DIAGNO	holography	nondistructive	testing	Ennos
UK	Teddington		Nat. Phys. Lab.		
179	PLASMA	Langmuir waves	e-beam	argon	Bond
UK	Brighton		Univ. of Sussex		
Plasma Phys. 24, no.12, p1495 (1982).					
180	CPBICF	fuse	exploded wire	arcing	Lipski
Poland	Gdansk		Gdansk Tech. Univ.		
IEEE Trans. Plasma Sci. PS-10, no.4, 339 (1982).					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
181	CPBICF fusion pellet	boron		advanced fuel	
Israel	Tel Aviv		Tel Aviv Univ.		Levush
Nucl. Fusion 22, no.11, p1519 (1982).					
182	BMSRAD wave packets	cosmic ray		trapped waves	
Norway	Tromso		Univ. of Tromso		Dysthe
Phys. Rev. Lett. 50, no.5, p353 (1983).					
183	LASERS CO2	pulsed		efficiencies	
UK	Glasgow		Univ. of Strathclyde		Smith
Appl. Phys. Lett. 41, no.11, p1037 (1982).					
184	LASERS bistability	Fabry-Perot		quadratic	
W Ger	Munster		Univ. Munster		Wedding
Appl. Phys. Lett. 41, no.11, p1028 (1982).					
185	SOLIDS transport theory	semiconductor		energy conversion	
UK	Cardiff		UWIST		Parrott
J. Appl. Phys. 53, no.12, p9105 (1982).					
186	CPBICF discharge	surface		spectroscopy	
France	Gif-sur-Yvette		CNRS E.S.E. Plateau du Moulon		Bordage
J. Appl. Phys. 53, no.12, p8568 (1982).					
187	SOLIDS optoelectronic	modulation		semicon. laser	
W Ger	Stuttgart		MPI fur Festkorperforschung		Gobel
Appl. Phys. Lett. 42, no.1, p25 (1983).					
188	LASERS semiconductor	waveguide		mode spectrum	
W Ger	Munich		Technische Univ.		Segmuller
Appl. Phys. Lett. 42, no.1, p15 (1983).					
189	HYDROD burning	propellants		velocimetry	
Italy	Milan		Ist. di Macchine-CNPM		Volpi
AFOSR-81-0143 Final Report, Feb. 1983.					
190	LASERS CO2	polarization		injection-locked	
UK	Edinburgh		Heriot Watt Univ.		Kar
Appl. Phys. Lett. 42, no.1, p12 (1983).					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
191	WETHER	gravity waves	magnetoacoustic	atmosphere	
UK	Cambridge		Univ. of Cambridge		Campos
J. Phys. A16, p1417 (1983).					
192	BMSRAD	accelerators	high-energy	review	
Switz	Geneva		CERN		Crowley-Mil.
Rep. Prog. Phys. 46, p51 (1983).					
193	LASERS	excitation	line profiles	self reversed	
UK	Brighton		Univ. of Sussex		Eicher
Phys. Lett. 93A, no.3, p119 (1983).					
194	PLASMA	waves	magnetosonic	toroidal geometry	
France	Fontenay-aux-Roses		Cen. d'Etudes Nucleaires		Cotsaftis
Phys. Lett. 93A, no.4, p193 (1983).					
195	PLASMA	iron ions	dielec. recom.	PLT	
France	Nice		Observ. de Nice		Bely-Dubau
Phys. Lett. 93A, no.4, p189 (1983).					
196	WETHER	ball lightning	survey		
UK	Egham Hill		Royal Holloway Col.		Stenhoff
Phys. Bull. 1983.					
197	PLASMA	electromagnetic	beam-plasma	waves	
W Ger	Bochum		Ruhr Univ.		Shukla
Phys. Rev. A27, no.1, p552 (1983).					
198	PLASMA	relativistic	distributions	equilibrium	
Spain	Santander		Univ. de Santander		Lapiedra
Phys. Rev. A27, no.1, p442 (1983).					
199	ATOMIC	HeH	molecular states		
Spain	Madrid		Univ. Auto. de Madrid		Macias
Phys. Rev. A27, no.1, p206 (1983).					
200	SOLIDS	glass	structure	synchrotron rad.	
UK	Warrington		Daresbury Lab.		Freaves
New Scientist, p246, 27 Jan 1983.					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
201	ATOMIC	autoionization	laser induced	spectrum	
W Ger	Essen		Univ. Essen		Lewenstein
Phys. Rev. Lett. 50, no.6, p417 (1983).					
202	PLASMA	diagnostic	laser scat.	ASDEX	
W Ger	Garching		MPI fur Plasmaphysik		Steuer
Phys. Bull. 1983.					
203	SOLIDS	neutron doping	Si wafers	transmutation	
UK	Didcot		AERE Harwell		Smith
Phys. Bull. 1983.					
204	PLASMA	propulsion	MHD	arcs	
W Ger	Stuttgart		Univ. Stuttgart		Schrade
BOARD Proposal 83-056 (1983).					
205	DIAGNO	atom bombardment	mass spectroscopy	FABMS	
UK	Manchester		UMIST		Vickerman
New Scientist, p524, 24 Feb 1983.					
206	PLASMA	diffuse pinch	minimum energy		
UK	Manchester		UMIST		Rusbridge
Nucl. Fusion 22, no.10, p1291 (1982).					
207	CPBICF	vacuum arc	anode region	multi spot	
Israel	Tel Aviv		Tel Aviv Univ.		Boxman
J. Appl. Phys. 54, no.2, p592 (1983).					
208	BASICS	ferromagnetic	self energy	cylinder	
Israel	Rehovot		Weizmann Inst. of Sci.		Aharoni
J. Appl. Phys. 54, no.2, p488 (1983).					
209	LASERS	two frequency	three level	modulation	
Israel	Haifa		Technion		Senitzky
USARSG R&D proposal file 3027ph.					
210	PLASMA	glow discharge	stability	neon	
Israel	Haifa		Technion		Wasserstrom
J. Appl. Phys. 53, no.8, p5565 (1982).					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
211	CPBICF laser plasma		expansion	diffusion	Avivi
Israel	Jerusalem		Hebrew Univ.		
Phys. Fluids 25, no.10, p1894 (1982).					
212	CPBICF ion beam		pellets	shaped voltage	Havazelet
Israel	Beer-Sheva		Nuclear Res. Cen. Negev		
J. Phys. D16, p315 (1983).					
213	LASERS HF		supersonic	pulsed	Rosenwaks
Israel	Beer-Sheva		Ben Gurion Univ. Negev		
J. Appl. Phys. 54, no.1, p48 (1983).					
214	CPBICF plasma focus		fast bank	dynamics	Decker
W Ger	Dusseldorf		Univ. of Dusseldorf		
Phys. Fluids 26, no.2, p571 (1983).					
215	PLASMA diffusion		multipole	2D model	Koch
France	Orsay		Univ. Paris Sud		
Phys. Fluids 26, no.2, p545 (1983).					
216	PLASMA finite beta		equilibria	torodial	Edinstrasser
Austri	Innsbruck		Univ. Innsbruck		
Phys. Fluids 26, no.2, p500 (1983).					
217	PLASMA waves		ion cyclotron	reflection	Schukla
W Ger	Bochum		Ruhr Univ.		
Phys. Fluids 26, no.2, p480 (1983).					
218	PLASMA inhomogeneous		magnetized	quasilinear	Yasseen
Switz	Lausanne		Ecole Poly. Federale		
Phys. Fluids 26, no.2, p468 (1983).					
219	HYDROD turbulent		wake	evolution	Morel
France	Ecully		Labo. de Mecan. des Fluides		
Phys. Fluids 26, no.2, p416 (1983).					
220	SOLIDS electron beam		annealing	silicon	Tholomier
France	Villeurbanne		Univ. Claude Bernard Lyon		
J. Appl. Phys. 54, no.3, p1588 (1983).					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
221	SOLIDS etching		rf discharge	fluorocarbon	
Italy	Bari		Univ. of Bari		d'Agostino
J. Appl. Phys. 54, no.3, p1284 (1983).					
222	DIAGNO thermal waves		flaws	stereoscopic	
W Ger	Neubiberg		Hochschule de Bundeswehr		Busse
Appl. Phys. Lett. 42, no.4, p366 (1983).					
223	SOLIDS bistability		optical	InSb	
UK	Edinburgh		Heriot Watt Univ.		Kar
Appl. Phys. Lett. 42, no.4, p334 (1983).					
224	SOLIDS coupler		optical	liquid crystal	
UK	London		Imperial College		Busurin
Appl. Phys. Lett. 42, no.4, p322 (1983).					
225	ENERGY electrokinetic		energy conversion	liquid mixture	
Spain	Granada		Univ. of Granada		Hidalgo-Alva
Phys. Lett. 94A, p325 (1983).					
226	SOLIDS laser		annealing	germanium	
Italy	Rome		Ist. di Fisica		Vitali
Phys. Lett. 94A, p320 (1983).					
227	SOLIDS dry etch		plasma parameters	impedance	
Nether	Eindhoven		Philips Research Labs.		Roosmalen
Appl. Phys. Lett. 42, no.5, p416 (1983).					
228	DIAGNO SAW		microscope	confocal	
UK	London		Univ. College		Smith
Appl. Phys. Lett. 42, no.5, p411 (1983). SAW = surface acoustic wave					
229	CPBICF laser plasma		electron trans.	ion waves	
UK	Didcot		Rutherford Appleton Lab.		Bell
Phys. Fluids 26, no.1, p279 (1983).					
230	PLASMA double layer		steady state	analysis	
W Ger	Bochum		Ruhr Univ.		Schamel
Phys. Fluids 26, no.1, p190 (1983).					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
231	PLASMA coupling		ion cyclotron wave	impedance	
W Ger	Garching		MPI fur Plasmaphysik		Puri
Phys. Fluids 26, no.1, p164 (1983).					
232	PLASMA two-stream		oscillating	ohmic nonlin.	
Norway	Tromso		Univ. of Tromso		Dysthe
Phys. Fluids 26, no.1, p146 (1983).					
233	PLASMA electrostatic		nonlinear wave	mode conversion	
W Ger	Bochum		Ruhr Univ.		Sharma
Phys. Fluids 26, no.1, p87 (1983).					
234	PLASMA Langmuir waves		quasilinear	breakdown	
France	Palaiseau		Ecole Poly.		Laval
Phys. Fluids 26, no.1, p52 (1983).					
235	PLASMA diatomic		hydrodynamics	Boltzmann Eqn.	
France	Toulouse		Cen. Nat. d'Etudes Spatiales		Zappoli
Phys. Fluids 26, no.1, p50 (1983).					
236	CPBICF laser plasma		Schlieren	diagnostic	
France	Palaiseau		Ecole Poly.		Benahar
J. Appl. Phys. 54, no.2, p603 (1983).					
237	CHEMAT neutron diffrac.		crystal orient.	weld material	
UK	Didcot		AERE Harwell		Allen
J. Appl. Phys. 54, no.2, p555 (1983).					
238	WETHER earthquake		lights	data collection	
Hungry	Budapest		Georgiana Observ.		Hedervari
Nature 301, p368, 3 Feb 1983.					
239	WETHER volcanic eruption		stratosphere	warming	
UK	Bracknell		Meteorological Office		Parker
Nature 301, p406, 3 Feb 1983.					
240	LASERS focusing		optics	multiwavelength	
UK	Didcot		Rutherford Appleton Lab.		Nicholas
J. Phys. D16, pL53 (1983).					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
241	HYDROD	friction	rubber	ice	
UK	Brickendonbury		Rubber Producers' Res. Assoc.		Roberts
J. Phys. D16, p275 (1983).					
242	CPBICF	EM wave	gas interaction	Stark mirror	
Portug	Lisbon		Inst. Superior Tecnico		Faro
J. Phys. D16, p287 (1983).					
243	CPBICF	laser target	ionization	algorithm	
France	Orsay		Univ. Paris Sud		Gauthier
J. Phys. D16, p321 (1983).					
244	PLASMA	rev. field pinch	fluorescence	diagnostic	
UK	London		Imperial College		Gohil
J. Phys. D16, p333 (1983).					
245	CPBICF	metal arc	cathode	model	
Bulgar	Sofia		Bulgarian Acad. of Sci.		Djekov
J. Phys. D16, p343 (1983).					
246	CPBICF	air	streamers	spark transition	
France	Pau		Inst. Univ. de Recherche Sci.		Dupuy
J. Phys. D16, p379 (1983).					
247	CPBICF	electron emission	carbon fiber	cathodes	
UK	Birmingham		Univ. of Aston		Latham
J. Phys. D16, p455 (1983).					
248	ENERGY	wave power	Sea Clam	funding	
UK			Sea Energy Assoc. Ltd.		
Energy Report 10, no.4 (1983).					
249	BMSRAD	XUV	line source	tunable	
W Ger	Karlsruhe		Kernforsch. Karlsruhe		Poth
Phys. Lett. 94A, p135 (1983).					
250	HYDROD	water	conductivity	high pressure	
W Ger	Dusseldorf		Univ. of Dusseldorf		Hollenberg
J. Phys. D16, p385 (1983).					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>	<u>Institute</u>			
<u>Ref and Notes</u>					
251	PLA MA heating		tokamak	turbulent	
Nether	Nieuwegein	Inst. voor Plasmafysica			Kluiver
Phys. Lett. 94A, p156 (1983).					
252	BASICS solitons		Davydov	lifetime	
Denmrk	Lynghby	Tech. Univ. of Denmark			Scott
Phys. Lett. 94A, p193 (1983).					
253	PLASMA microwave		discharge	travelling wave	
Poland	Gdansk	Polish Acad. of Sci.			Zakrzewski
J. Phys. D16, p171 (1983).					
254	BMSRAD EM radiation		scattering	dielectrics	
UK	Colchester	Univ. of Essex			Shepherd
J. Phys. A16, p651 (1983).					
255	ENERGY tritium		separation	resonance rad.	
UK	Oxford	Oxford Univ.			Allen
J. Appl. Phys. 54, no.1, p14 (1983).					
256	SOLIDS recrystallization		silicon	halogen lamp	
France	Grenoble	Labo. d'Electronique et des Tech.			Dupuy
J. Appl. Phys. 54, no.1, p437 (1983).					
257	BASICS chaos		bifurcation	RCL circuit	
Portug	Lisbon	CAUL-CFMC			Cascais
Phys. Lett. 93A, no.5, p213 (1983).					
258	SOLIDS GaAs		evaporation	laser irradiation	
Nether	Groningen	Univ. of Groningen			Boerma
Phys. Lett. 93A, no.5, p253 (1983).					
259	BASICS stability		electric system	thermodynamics	
Spain	Barcelona	Univ. Auto. de Barcelona			PerezGarcia
Phys. Lett. 93A, no.6, p279 (1983).					
260	HYDROD Rayleigh-Benard		convection	tranient order	
France	Gif-sur-Yvette	CEN Saclay			Berge
Phys. Lett. 93A, no.8, p365 (1983).					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
261	BMSRAD	magnetic field	iron	Green's Function	
UK	Newcastle upon Tyne		Newcastle Poly.		Caldwell
J. Appl. Phys. 54, no.2, p484 (1983).					
262	BASICS	universality	period n-tupling	complex maps	
Denmrk	Copenhagen		NORDITA		Cvitanovic
Phys. Lett. 94A, no.8, p329 (1983).					
263	BASICS	enzyme	strange attractor	oscillating model	
Denmrk	Odense		Odense Univ.		Olsen
Phys. Lett. 94A, no.9, p454 (1983).					
264	CPBICF	REB	enhanced stopping	applied B-field	
Israel	Rehovot		Weizmann Inst. of Sci.		Maron
J. Appl. Phys. 54, no.4, p1666 (1983).					
265	CPBICF	REB	ion acceleration		
UK	London		Imperial College		Kerslick
J. Phys. D16, p613 (1983).					
266	PLASMA	double layer	ionization	numerical	
Sweden	Stockholm		Royal Inst. of Tech.		Andersson
J. Phys. D16, p601 (1983).					
267	HYDROD	turbulent flow	electric current	dielectrics	
UK	Chester		Thornton Research Cen.		Walmsley
J. Phys. D16, p553 (1983).					
268	CHEMAT	eroding surface	particle collision	machinery	
UK	Cambridge		Univ. of Cambridge		Andrews
J. Phys. D16, p525 (1983).					
269	LASERS	CO2	stabilization	Stark effect	
UK	Cambridge		Cavendish Lab.		Rackley
J. Phys. D16, p505 (1983).					
270	CPBICF	REB	source	thermionic	
Israel	Beer-Sheva		Nuclear Res. Cen. Negev		Yeheskel
J. Phys. D16, p499 (1983).					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
271	DIAGNO	refractive index	complex	thin films	
UK	Cambridge		Cavendish Lab.		Phillips
J. Phys. D16, p489 (1983).					
272	LASERS	N2	waveguide	high rep rate	
Italy	Florence		Ist. di Elettronica Quant. CNR		Buffa
J. Phys. D16, pL67 (1983).					
273	LASERS	CO2	mode structure	plane resonator	
UK	Great Malvern		Royal Sig. & Radar Estab.		Jordan
J. Phys. D16, pL133 (1983).					
274	DIAGNO	gyrocompass	NMR		
UK	Slough		Admiralty Compass Observatory		
Phys. Bull. 1982.					
275	DIAGNO	ultrasonic	transmission	Rayleigh wave	
UK	Didcot		AERE Harwell		Gillespie
Phys. Bull. 1982.					
276	DIAGNO	channel plate	x-ray	efficiency	
UK	Leicester		Univ. of Leicester		Fraser
Nature 300, p509, Dec. 82.					
277	ENERGY	liquid	electrolyte	solar cells	
UK	Oxford		Oxford Univ.		Hamnett
Nature 300, p687, 23 Dec 1982.					
278	SOLIDS	ultra low temp.	refrigeration		
W Ger	Julich		Inst. fur Fest. der Kern.		Pobell
European Phys. Soc. Bull. QE-19, p7.					
279	ENERGY	automobile	microwave	engine timing	
UK	Ipswich		EDI Electronic Engineering		
Energy Report, Dec. 1982.					
280	ATOMIC	spectrum	weak lines	observed law	
UK	London		Imperial College		Learner
J. Phys. B15, pL891 (1982).					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
281	CPBICF vacuum arc		cathode spot	motion	
Nether	Eindhoven		Eindhoven Univ. of Tech.		Daalder
J. Phys. D16, p17 (1983).					
282	LASERS white light		He-Cd	three color	
UK	Swansea (Wales)		Univ. Coll. of Swansea		Kin-Hung
J. Phys. D16, pL1 (1983).					
283	CPBICF ion source		liquid metal	space charge	
UK	Birmingham		Univ. of Aston		Mair
J. Phys. D15, p2523 (1982).					
284	CPBICF double layer		insulator-liquid	interface	
France	Grenoble		Labo. d'Elec. et de Mat. Dielec.		Saad
J. Phys. D15, p2505 (1982).					
285	CPBICF fast electrons		laser plasma	2D effects	
W Ger	Garching		MPI fur Quantenoptik		Amiranoff
J. Phys. D15, p2463 (1982)			also J. Kilkenny at Blacket Lab.		
286	LASERS cavity density		perturbations	hydrodynamics	
UK	Great Malvern		Royal Sig. & Radar Estab.		Tough
J. Phys. D15, p2433 (1982).					
287	BMSRAD neutrons		pulsed source	moderation	
UK	Birmingham		Univ. of Birmingham		Picton
J. Phys. D15, p2369 (1982)			also A. Taylor at RAL.		
288	CPBICF laser target		ionization	computer code	
UK	Glasgow		Univ. of Glasgow		Novak
J. Phys. D15, p2017 (1982).					
289	ENERGY photovoltaic		conversion eff.	formula	
Belgium	Gent		Rijksuniversiteit te Gent		DeVos
J. Phys. D15, p2003 (1982).					
290	PLASMA double layer		high voltage	magnetized	
Sweden	Stockholm		Royal Inst. of Tech.		torven
J. Phys. D15, p1943 (1982).					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
291	HYDROD	shear layer	transonic flow	laser anemometer	
UK	Marchwood		CEGB Engineering Labs.		Richards
J. Phys. D15, p1891 (1982).					
292	LASERS	transmission	sea water	attenuation coefs.	
France	Brest		Univ. de Bretagne Occidentale		Cariou
J. Phys. D15, p1873 (1982).					
293	DIAGNO	ultrasonic	diffraction	periodic surface	
France	Paris		Univ. Paris VII		deBilly
J. Phys. D15, p1835 (1982).					
294	BASICS	Hamiltonions	nonlinear	intermittent	
Italy	Rome		Univ. di Roma		Fucito
J. Phys. A16, p117 (1983).					
295	BASICS	Schrodinger Eqn.	quartic potential	exact solution	
UK	Glasgow		Univ. of Glasgow		Flessas
J. Phys. A16, p85 (1983).					
296	BASICS	solitons	EM effects	DNA function	
UK	London		Univ. of London		Balanovski
Phys. Lett. 93A, no.1, p52 (1982).					
297	PLASMA	solitons	spikey whistler		
W Ger	Bochum		Ruhr Univ.		Yu
Phys. Lett. 93A, no.1, p24 (1982).					
298	LASERS	distributed	feedback	gas	
Switz	Zurich		ETH Zurich		Preiswerk
Phys. Lett. 93A, no.1, p15 (1982).					
299	CHEMAT	melting	impact response	copper	
UK	Cambridge		Cavendish Lab.		Andrews
J. Phys. D15, p2357 (1982).					
300	PLASMA	glow discharge	cathode region	Monte Carlo	
France	Gif-sur-Yvette		Ecole Sup. d'Electricite		Boeuf
J. Phys. D15, p2169 (1982).					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
301	DIAGNO	light scattering	fiber sizing	approximations	
UK	Cardiff		Univ. College		Sharma
J. Phys. D15, p2149 (1982).					
302	LASERS	CO	additive gases	plasma effects	
UK	Glasgow		Univ. of Strathclyde		Smith
J. Phys. D15, p2125 (1982).					
303	CPBICF	liquid metal	ion source	emitter shape	
UK	Birmingham		Univ. of Aston		Forbes
J. Phys. D15, pL153 (1982).					
304	PLASMA	thermal conduction	field ergodicity	tokamak	
UK	Abingdon		Culham Lab.		Cook
J. Phys. D15, pL137 (1982).					
305	PLASMA	confinement	neutral heating	ASDEX	
W Ger	Garching		MPI fur Plasmaphysik		Wagner
Phys. Rev. Lett. 49, no.19, p1408 (1982).					
306	HYDROD	water wave	solitons	finite wave no.	
W Ger	Essen		Univ. Essen		Laedke
Phys. Rev. Lett. 49, no.19, p1401 (1982).					
307	HYDROD	blast waves	flow field	dust and water	
Israel	Beer-Sheva		Ben Gurion Univ. Negev		Ben-Dor
USARSG R&D proposal file 4070ph.					
308	SOLIDS	Josephson junction	solitons	Sine Gordon	
Denmark	Lyngby		Tech. Univ. of Denmark		Christiansen
USARSG R&D proposal file 4007ph.					
309	SOLIDS	optical fiber	communications	coherent modulat.	
Denmark	Lyngby		Tech. Univ. of Denmark		Nilsson
USARSG R&D proposal file 4091ph.					
310	ATOMIC	high pressure	spectroscopy	molecular forces	
UK	London		King's College		Sherman
USARSG R&D proposal file 2829ph.					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
311	SOLIDS	semiconductor	annealing	lasers	
France	Paris		Univ. Pierre et Marie Curie		Balkanski
USARSG R&D proposal file 3088ph.					
312	ATOMIC	rare-halogen	atomic processes	lasing theory	
UK	Belfast		Queen's Univ.		Bates
USARSG R&D grant file 2613.					
313	BASICS	partial d.e.	nonlinear	asymptotic anal.	
Nether	Nijmegen		Katholieke Univ.		Frank
USARSG R&D grant file 30789ma.					
314	HYDROD	diffusion eqns.	travelling waves	moving boundary	
UK	Oxford		Oxford Univ.		McLeod
USARSG R&D grant file 3063ma.					
315	BASICS	sparse matrix	iterative method	convergence	
Nether	Utrecht		Academic Computer Cen.		van der Vorst
USARSG R&D grant file 2712.					
316	LASERS	bifurcation	gas laser	chaotic behavior	
Italy	Florence		Ist. Nazionale di Ottica		Arecchi
Phys. Rev. Lett. 49, no.17, p1217 (1982).					
317	PLASMA	hollow cathode	magnetic field	discharge	
Yugos	Belgrade		Kidric Inst. of Nuclear Sci.		Miljevic
Phys. Lett. 92A, no.9, p439 (1982).					
318	BASICS	quasiperiodic	solitons	Sine Gordon	
Poland	Warsaw		Polish Acad. of Sci.		Jaworski
Phys. Lett. 92A, no.9, p427 (1982).					
319	ATOMIC	water	bond network	molecular dynam.	
W Ger	Aachen		Reinisch-Westfalische Tech HS		Geiger
Phys. Rev. Lett. 49, no.24, p1749 (1982).					
320	LASERS	CO2	H2 buffer	repetitive	
UK	Hull		Univ. of Hull		Dyer
Appl. Phys. Lett. 41, no.6, p506 (1982).					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
321	ATOMIC clusters		plasma frequency	particle size	
Italy	Milan		CISE S.p.A.		Parmigiani
Phys. Lett. 92A, no.8, p419 (1982).					
322	PLASMA Langmuir waves		magnetic field	decay process	
Yugos	Belgrade		Kidric Inst. of Nuclear Sci.		Skoric
Phys. Lett. 92A, no.8, p389 (1982).					
323	HYDROD gas-droplet		liquid spray	cooling towers	
Belgium	Rhode St. Genese		Von Karman Inst.		Weinacht
Tech. Note. 144, July 1982.					
324	BASICS Euler Eqn.		implicit	solutions	
France	Chatillon		ONERA		Lerat
ONERA report.					
325	ATOMIC oxygen-iodine		kinetics	spectroscopy	
France	Chatillon		ONERA		Pigache
ONERA report.					
326	HYDROD turbulent mixing		reacting flows	numerics	
France	Chatillon		ONERA		Schmitt
ONERA report.					
327	HYDROD corner flows		numerics		
France	Chatillon		ONERA		Arnal
ONERA report.					
328	DIAGNO aerodynamics		flow visualization	optical	
France	Chatillon		ONERA		Veret
ONERA report.					
329	DIAGNO Raman scattering		gases	temp. and density	
France	Chatillon		ONERA		Taran
ONERA report.					
330	DIAGNO laser		velocimetry	wind tunnels	
France	Chatillon		ONERA		Boutier
ONERA report.					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
331	ATOMIC spectroscopy		He-like titanium	plasma	
France	Nice		Observ. de Nice		Bely-Dubau
Phys. Rev. A26, no.6, p3459 (1982).					
332	BMSRAD gamma rays		coherent	REB-laser interac.	
Italy	Rome		Univ. di Roma		Bertolotti
Phys. Rev. A26, no.6, p3187 (1982).					
333	BMSRAD channeling		polarized photons	electron beams	
Switz	Geneva		CERN		
CERN Courier, Dec. 1982, p414.					
334	LASERS nitrogen		high power	discharge	
Italy	Casaccia		Lab. Tec. Speciali-CNEN		Armandillo
Appl. Phys. Lett. 41, no.7, p611 (1982).					
335	DIAGNO surface studies		scanning optics	response	
UK	Oxford		Oxford Univ.		Cox
Appl. Phys. Lett. 41, no.7, p604 (1982).					
336	HYDROD ring vortex		turbulent	behavior	
W Ger	Göttingen		MPI für Stromungsforsch		Schneider
MPI report ISSN 0436-119, (1982).					
337	BMSRAD laser accelerator		guide structure	IR pulses	
Italy	Frascati		Ist. Naz. di Fisica Nucleare		Solimeno
LNF report F-82/30 (p), 1982.					
338	BMSRAD lamp		Hg discharge	pressure measure	
Greece	Iraklion		Univ. of Crete		Karabourniotis
J. Appl. Phys. 53, no.4, p2965 (1982).					
339	SOLIDS liquid crystal		conducting	copper core	
France	Strasbourg		Cen. des Res. Macromolecules		Simon
New Scientist, p799, 23 Dec. 1982.					
340	DIAGNO microscopy		tunneling	surface contour	
Switz	Zürich		IBM Zürich Research Lab.		Binnig
Science 220, 1 Apr 83, p43.					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
341	WETHER	laser ranging	satellite	facility	
UK	Leicester		Univ. of Leicester		Meadows
Nature 302, p213, 17 Mar 83					
342	DIAGNO	microscopy	acoustic	gas coupling	
UK	London		Univ. College		Ash
New Scientist, p148, 20 Jan 83					
343	SOLIDS	Langmuir-Blodgett	photoresist	polymerization	
France	Gif-sur-Yvette		Nuclear Studies Center		Barraud
New Scientist, p912, 30 Sept 82.					
344	SOLIDS	Langmuir-Blodgett	semiconductors	InP	
UK	Durham		Durham Univ		Roberts
New Scientist, p21, 1 Oct 81.					
345	SOLIDS	Chem FETS	chip sensors	enzymes	
UK	Cardiff		UWIST		Thomas
New Scientist, p236, 28 Jan 82.					
346	SOLIDS	biochip	calcium ions	muscle control	
UK	Warwick		Univ. of Warwick		Barker
New Scientist, p68, 14 Jan 82					
347	ATOMIC	deuteron	reflection	first wall	
Sweden	Stockholm		Research Inst. of Physics		Braun
J. Appl. Phys. 53, no.9, p6446 (1982)					
348	SOLIDS	Raman Scattering	annealing	silicon	
W Ger	Essen		Univ. Essen		von der Lind
Appl. Phys. Lett. 41, no.8, p700 (1982)					
349	BASICS	solitons	Korteweg de Vries	recurrence	
W Ger	Munster		Univ. Munster		Wedding
J. Appl. Phys. 54, no.8, p5377 (1982)					
350	LASERS	CO2	synchronization	phase locking	
Austri	Wien		Tech. Univ. Wien		Leeb
Appl. Phys. Lett. 41, no.7, p592 (1982).					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
351	LASERS	CO2	lifetime	miniature	
Italy	Pomezia		Selenia S.P.A.		Marchetti
Appl. Phys. Lett. 41, no.7, p601 (1982)					
352	SOLIDS	Schottky barrier	photo response	absorption	
Israel	Jerusalem		Hebrew Univ.		Milshtein
Phys. Lett. 95A, no.3-4, p194 (1983)					
353	SOLIDS	monolayer films	self assembling	biochips	
Israel	Rehovot		Weizmann Inst. of Sci.		Netzer
New Scientist, p20, 7 April 1983.					
354	SOLIDS	Mossbauer spectra	biological sys.	dynamics	
Israel	Jerusalem		Hebrew Univ.		Nowik
Phys. Rev. Lett. 50, no.19, p1528 (1983).					
355	ATOMIC	UF6	laser absorption	isotope sep.	
Israel	Haifa		Technion		Koren
J. Appl. Phys. 54, no.5, p2827 (1983).					
356	CPBICF	REB	neutralized	stability	
Israel	Tel Aviv		Tel Aviv Univ.		Petran
Plasma Phys. 25, no.1, p1 (1983).					
357	BASICS	self avoiding	walks	scaling	
Israel	Ramat-Gan		Bar-Ilan Univ.		Havlin
Phys. Rev. A27, no.5 (1983)					
358	HYDROD	fluid layer	bounded	dynamics	
Israel	Rehovot		Weizmann Inst. of Sci.		Procaccia
Phys. Rev. A27, no.5, p2585 (1983)					
359	LASERS	optical bistab.	Fabry-Perot	rad. pressure	
W Ger	Garching		Univ. Munchen		Dorsel
Phys. Rev. Lett. 51, no.17, p1550 (1983).					
360	ATOMIC	stopping power	light ions	low velocity	
Denmrk	Odense		Odense Univ.		Oddershede
Phys. Rev. Lett. 51, no.15, p1332 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
361	PLASMA	drift waves	KdV equation	k-spectrum	
W Ger	Garching		MPI fur Plasmaphysik		Tasso
Phys. Lett. 97A, no.9, p384 (1983)					
362	LASERS	XeCl	pumped fiber	Raman conversion	
Italy	Florence		Ist. di Elettronica Quant. CNR		Pini
Appl. Phys. Lett. 43, no.6, p517 (1983)					
363	ENERGY	atmospheric CO2	ice core	isotope data	
UK	Cambridge		Univ. of Cambridge		Shackleton
Nature 306, p319, 24 Nov 83					
364	PLASMA	impurity	transport	drift waves	
W Ger	Julich		Kernforsch. Julich		Rogister
Nucl. Fusion 23, no.11, p1455 (1983)					
365	BASICS	random walks	fractals	2D	
France	Grenoble		Cen. for Res. at Very Low Temp.		d'Auriac
J. Phys. A16, p4039 (1983)					
366	BASICS	fractals	aggregation	surface	
Hungry	Budapest		Inst. for Tech. Physics		Vicsek
J. Phys. A16, pL647 (1983)					
367	CPBICF	laser target	hot electron	deposition	
W Ger	Garching		MPI fur Quantenoptik		Eidman
Appl. Phys. Lett. 43, no.5, p440 (1983)					
368	CHEMAT	laser	welding	penetration	
UK	Abingdon		Culham Lab.		Kaye
Appl. Phys. Lett. 43, no.5, p412 (1983)					
369	DIAGNO	Kerr cell	shutter	femtosecond	
France	Palaiseau		Ecole Poly.		Etchepare
Appl. Phys. Lett. 43, no.5, p406 (1983)					
370	ATOMIC	microwave	sensitivity	yeast	
W Ger	Neuherberg		Gesellschaft fur Strahlen		Grundler
Phys. Rev. Lett. 51, no.13, p1214 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
371	PLASMA	solitons	ion-acoustic	reflection	
Austri	Innsbruck		Univ. Innsbruck		Popa
Phys. Lett. 98A, no.3, p110 (1983)					
372	SOLIDS	Si(111)	scanning tunnel	microscope	
Switz	Zurich		IBM Zurich Research Lab.		Rohrer
Phys. Rev. Lett. 50, no. 2, p120 (1983)					
373	BASICS	fractal	aggregates	simulation	
Israel	Rehovot		Weizmann Inst. of Sci.		Bensiman
Phys. Rev. Lett. 51, no.15, p1394 (1983)					
374	PLASMA	drift waves	turbulence	low beta	
Denmrk	Roskilde		Riso Nat. Lab.		Pecseli
Plasma Phys. 25, no.11, p1173 (1983)					
375	BMSRAD	electron	back scattering	CRT	
UK	Redhill		Philips Research Labs.		Mansell
J. Phys. D16, p2269 (1983)					
376	BMSRAD	sodium lamp	high pressure	arcs	
UK	Leicester		Thorn EMI Lighting Ltd.		Denbigh
J. Phys. D16, p2167 (1983)					
377	PLASMA	arc	unipolar	simulation	
W Ger	Essen		Univ. Essen		Stampa
J. Phys. D16, p2135 (1983)					
378	DIAGNO	flowmeter	electromagnetic	pulsed	
UK	Cranfield		Cranfield Inst. of Tech		Tarabad
J. Phys. D16, p2103 (1983)					
379	CHEMAT	gamma ray	spectroscopy	analytic	
W Ger	Karlsruhe		Kernforsch. Karlsruhe		Hassan
J. Phys. D16, p2061 (1983)					
380	ENERGY	hot water	storage	dynamics	
Sweden	Stockholm		Swed. Rock Mech. Res. Found.		Rehbinder
J. Phys. D16, p2039 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
381	ENERGY	water trees	power cables	neutron analysis	
UK	Glasgow		Univ. of Strathclyde		Crichton
J. Phys. D16, pL223 (1983)					
382	BASICS	nonlin. oscil.	Poincare map	neon lamp	
Nether	Amsterdam		Univ. of Amsterdam		Van Exter
Phys. Lett. 99A, No.1, p1 (1983)					
383	SOLIDS	ALE	CdTe films		
Finlnd	Tampere		Tampere Univ. of Tech.		Pessa
J. Appl. Phys. 54, p6047 (1983). ALE = atomic layer epitaxy					
384	CPBICF	vacuum arc	zinc	spectroscopy	
Israel	Tel Aviv		Tel Aviv Univ.		Goldsmith
J. Appl. Phys. 54, p5961 (1983)					
385	BMSRAD	negative ions	Cs W surface	H minus	
Nether	Amsterdam		Inst. for Atomic & Molec. Phys.		Van Bommel
J. Appl. Phys. 54, p5676 (1983)					
386	BASICS	information	quantum limit	entropy	
UK	London		Imperial College		Pendry
J. Phys. A16, p2161 (1983)					
387	PLASMA	stability	thermal equil.	bifurcation	
Italy	Frascati		Centro Ricerche Energia-ENEA		Zampaglione
Phys. Lett. 97A, no.4, p155 (1983)					
388	HYDROD	Rayleigh-Taylor	bubble motion	nonlinear	
W Ger	Darmstadt		Inst. fur Angewandte Physik		Kull
Phys. Rev. Lett. 51, no.16, p1434 (1983)					
389	HYDROD	turbulence	small-scale	experiments	
W Ger	Gottingen		MPI fur Stromungsforsch		Johnson
Phys. Fluids 26, no.9, p2408 (1983)					
390	HYDROD	turbulence	transition	boundary layer	
UK	Teddington		National Maritime Inst.		Gaster
EOARD Proposal 83-100 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
391	BMSRAD	channeling	dechan length	expression	
W Ger	Stuttgart		MPI fur Metallforsch		Seegar
Phys. Lett. 100A, No.8, p433 (1984)					
392	PLASMA	non-Markovian	kinetic eqn	magnetoplasma	
UK	Oxford		Oxford Univ.		Woods
Nature 307, p614, 16 Feb 1984					
393	HYDROD	Couette flow	Taylor vortices	numerics	
W Ger	Julich		Kernforsch. Julich		Lucke
Phys. Rev. Lett. 52, No. 8, p625 (1984)					
394	SOLIDS	Josephson junction	ring oscillator	dynamics	
Denmrk	Lyngby		Tech. Univ. of Denmark		Soerensen
Phys. Lett. 100A, No.2, p68 (1984)					
395	LASERS	chaos	optical cavity	numerics	
UK	Ipswich		British Telecom Res. Labs		Blow
Phys. Rev. Lett. 52, No.7, p526 (1984)					
396	CHEMAT	isotope sep.	laser assisted	gas dynamic	
Switz	Lausanne		Ecole Poly. Federale		Zellweger
Phys. Rev. Lett. 52, No.7, p522 (1984)					
397	BMSRAD	acceleration	random potential	stat. models	
W Ger	Bochum		Ruhr Univ.		Elsasser
Phys. Lett. 100A, No.7, p360 (1984)					
398	BASICS	channeling	positrons	lattice blocking	
Switz	Zurich		Univ. of Zurich		Patterson
ESN 38-1 and Phys. Rev. Lett. 52, 938 (1984)					
399	CPBICF	electron depos.	thin anode	K-alpha	
Israel	Rehovot		Weizmann Inst. of Sci.		Nardi
J. Appl. Phys. 55, No.1, p273 (1984)					
400	HYDROD	shaped charges	optimization	analytics	
Norway	Kjeller		Norwegian Defense Res. Estab.		Haugstrad
J. Appl. Phys. 55, No.1, p100 (1984)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
401	DIAGNO	SAW	cylin. focusing	nondestruc test	
France	Valenciennes		Univ. de Valenciennes		Nongailard
J. Appl. Phys. 55, No.1, p75 (1984). SAW = surface acoustic wave					
402	PLASMA	negative ions	hydrogen plasma	multicusp field	
France	Palaiseau		Ecole Poly.		Bacal
J. Appl. Phys. 55, No.1, p15 (1984)					
403	COMPUT	dissipation	computers	limits	
Austri	Graz		Tech. Univ. Graz		Porod
Phys. Rev. Lett. 52, No.3, p232 (1984)					
404	LASERS	KrF	e-beam pumped	kinetics	
Nether	Enschede		Twente Univ. of Tech.		Wittelman
J. Appl. Phys. 55, No.5, p1299 (1984)					
405	LASERS	phase conjugate	mirrors	review	
UK	Didcot		Rutherford Appleton Lab.		Gower
Nature 308, p110, 8 Mar 1984					
406	ATOMIC	fractal surface	molecules	adsorption	
Israel	Jerusalem		Hebrew Univ.		Avnir
Nature 308, p261, 15 Mar 1984					
407	DIAGNO	x-ray	microscopy	synchrotron rad	
UK	Warrington		Daresbury Lab.		Rush
Daresbury Lab. Progress Report					
408	DIAGNO	soft x-ray	microscopy	collaboration	
UK	Warrington		Daresbury Lab.		Duke
Daresbury Lab. Progress Report					
409	BASICS	fractals	dielectric	breakdown	
Switz	Baden-Dattwil		Brown Boveri & Cie Res. Cen.		Niemeyer
Phys. Rev. Lett. 52, No.12, p1033 (1984)					
410	HYDROD	acoustic	Brillouin scat.	supercooled water	
Italy	Messina		Consig. Nac. delle Recherche		Maisano
Phys. Rev. Lett. 52, No.12, p1025 (1984)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
411	ATOMIC	surface states	layered matter	graphite	
Switz	Lausanne		Ecole Poly. Federale		Posternak
Phys. Rev. Lett. 52, No.10, p863 (1984)					
412	SOLIDS	phonon echoes	structure defect	quartz	
UK	Lancaster		Univ. of Lancaster		Miyasato
Phys. Rev. Lett. 52, No.10, p843 (1984)					
413	CPBICF	laser	x-ray smoothing	layered targets	
France	Villeneuve-St-Georges		CEA Limeil		Bocher
Phys. Rev. Lett. 52, No.10, p823 (1984)					
414	CPBICF	plasma focus	collapse	dynamics	
W Ger	Darmstadt		Tech. Hochschule		Noll
Phys. Lett. 101A, No.2, p86 (1984)					
415	CPBICF	heat transport	non-neutral	Vlasov-Poisson	
Belgium	Brussels		Univ. Libre de Bruxelles		Clause
Phys. Rev. Lett. 52, No.13, p1119 (1984)					
416	BASICS	quantum	operational	measurements	
Poland	Warsaw		Univ. of Warsaw		Wodkiewicz
Phys. Rev. Lett. 52, No.13, p1064 (1984)					
417	SOLIDS	conductance	measurements	semiconductors	
Italy	Rome		Univ. La Sapienza		Migliorato
Appl. Phys. Lett. 44, No.2, p225 (1984)					
418	BASICS	self avoiding	walks	spiralling	
Nether	Delft		Lab. voor Tech. Natuurkunde		Blote
J. Phys. A17, pL111 (1984)					
419	BASICS	critical phen.	kinetic	1D lattice	
W Ger	Wuppertal		Univ. of Wuppertal		Grassburger
J. Phys. A17, pL105 (1984)					
420	BASICS	SAWs	group renorm.	gamma exponent	
W Ger	Julich		Kernforsch. Julich		Kremer
J. Phys. A17, pL215 (1984). SAW = self avoiding walk					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
421	PLASMA	octupole	z-pinch	experiments	
Sweden	Stockholm		Royal Inst. of Tech.		Drake
Plasma Phys. & Controlled Fusion 26, No.2, p387 (1984)					
422	BMSRAD	sodium lamp	high pressure	energy balance	
UK	Leicester		Thorn EMI Lighting Ltd		Wharmby
J. Phys. D17, p367 (1984)					
423	CPBICF	heat transport	non-Maxwellian	steep gradient	
Israel	Beer-Sheva		Nuclear Res. Cen. Negev		Strauss
J. Phys. D17, p327 (1984)					
424	HYDROD	Laser-Doppler	anemometry	turbulent struc	
UK	Edinburgh		Univ. of Edinburgh		Allan
J. Phys. D17, p533 (1984)					
425	WETHER	EM transmission	coagulating	aerosol	
UK	London		Queen Mary College		Williamsq
J. Phys. D17, p509 (1984)					
426	BMSRAD	slow neutron	fibers	propagation	
Spain	Madrid		Univ. Complutense		Alvarez-Estrada
J. Phys. D17, p475 (1984)					
427	SOLIDS	channeling	damage measure	LiN603	
UK	Guildford		Univ. of Surrey		Barfoot
J. Phys. D17, pL47 (1984)					
428	PLASMA	magnetic limiter	ergodic behavior	model	
UK	Abingdon		Culham Lab.		Martin
Plasma Phys. & Controlled Fusion 26, no.1B, p321 (1984)					
429	BASICS	radioactivity	carbon emission	223Ra	
UK	Oxford		Oxford Univ.		Rose
ESN 38-5 & Nature 307, p245, 19 Jan 1984					
430	HYDROD	vortex shedding	spinning cylinder	experiments	
Spain	Tarragona		Univ. de Barcelona		Diaz
Phys. Fluids 26, No.12, p3454 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
431	CPBICF	plasma focus	e-beams	ps modulation	
W Ger	Darmstadt		Tech. Hochschule		Noll
Phys. Lett. 99A, No.9, p435 (1983)					
432	CHEMAT	laser-driven	corrugations	liquid metals	
W Ger	Stuttgart		MPI fur Festkorperforschung		Keilmann
Phys. Rev. Lett. 51, No.23, p2097 (1983)					
433	PLASMA	Langmuir oscil	large amplitude	trapping	
W Ger	Garching		MPI fur Quantenoptik		Kono
Phys. Fluids 26, No.10, p3004 (1983)					
434	PLASMA	convective cells	drift waves	nonlinear	
W Ger	Bochum		Ruhr Univ.		Yu
Phys. Fluids 26, No.10, p2983 (1983)					
435	PLASMA	tearing instab.	shear flow	effects	
France	Fontenay-aux-Roses		Cen. d'Etudes Nucleaires		Paris
Phys. Fluids 26, No.10, p2966 (1983)					
436	CPBICF	laser-pellet	corona	flux saturation	
Spain	Madrid		Univ. Poli. de Madrid		Sanz
Phys. Fluids 26, No.11, p3361 (1983)					
437	CPBICF	laser plasma	ion turbulence	dynamics	
France	Villeneuve-St-Georges		CEA Limeil		Monchicourt
Phys. Fluids 26, No.11, p3354 (1983)					
438	PLASMA	ECH waves	emit. and absorb.	rf tokamak	
France	Fontenay-aux-Roses		Cen. d'Etudes Nucleaires		Fidone
Phys. Fluids 26, No.11, p3284 (1983)					
439	PLASMA	KdV solitons	resonant elec.	numerics	
Denmrk	Roskilde		Riso Nat. Lab.		Lynov
Phys. Fluids 26, No.11, p3262 (1983)					
440	DIAGNO	laser-Doppler	interferometry	high velocity	
Israel	Rehovot		Weizmann Inst. of Sci.		Kaplan
J. Appl. Phys. 54, No.11, p6086 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
441	SOLIDS	magnetic holes	crystallization	plastic in fluid	
Norway	Kjeller		Inst. for Energy Tech.		Skjeltorp
Phys. Rev. Lett. 51, No.25, p2306 (1983)					
442	HYDROD	shallow waves	canonical form	Hamiltonian	
Turkey	Istanbul		Bosphorus Univ.		Nutku
J. Phys. A16, p4195 (1983)					
443	SOLIDS	crystal	Schrodinger eqn.	1d model	
Belgium	Gent		Rijksuniversiteit te Gent		Wille
J. Phys. A16, pL771 (1983)					
444	BMSRAD	keV electron	transport	Monte Carlo	
Spain	Barcelona		Univ. de Barcelona		Salvat
J. Phys. D17, p185 (1984)					
445	DIAGNO	cold neutron	radiography	grain size	
UK	Birmingham		Univ. of Birmingham		Allen
J. Phys. D17, p99 (1984)					
446	DIAGNO	laser-Doppler	droplet sizing		
France	Nont-St-Aignan		Fac. des Sci. de Rouen		Allano
J. Phys. D17, p43 (1984)					
447	WETHER	ocean wave	synth. aper. radar	imaging	
UK	London		Queen Elizabeth College		Ouchi
J. Phys. D17, p25, (1984)					
448	BMSRAD	ion source	liquid metal	heating effects	
UK	Birmingham		Univ. of Aston		Mair
J. Phys. D17, pL13 (1984)					
449	PLASMA	EC emission	measurements	DITE tokamak	
UK	Abingdon		Culham Lab.		Clark
Plasma Phys. 25, No.12, p1501 (1983)					
450	PLASMA	MHD waves	cold gas mantle	interactions	
Sweden	Stockholm		Royal Inst. of Tech.		Bures
Plasma Phys. 25, No.12, p1389 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
451	CPBICF opening switch		optical	neon discharge	
Israel	Beer-Sheva		Ben Gurion Univ. Negev		Shuker
EOARD Proposal 84-028 (1983)					
452	LASERS CO2		corona discharge	optimization	
Italy	Pomezia		Selenia S.P.A.		Marchetti
J. Appl. Phys. 54, No.10, p5672 (1983)					
453	HYDROD ultrasonic waves		diffraction	interface	
Belgium	Kortrijk		Katholieke Univ.		Claeys
J. Appl. Phys. 54, No.10, p5657 (1983)					
454	PLASMA divertor		magnetic	axisymmetric	
France	Grenoble		Assoc. Euratom-CEA		Savas
J. Appl. Phys. 54, No.10, p5626 (1983)					
455	CPBCIF heat transport		steep gradient	non local	
France	Palaiseau		Ecole Poly.		Luciani
Phys. Rev. Lett. 51, No.18, p1664 (1983)					
456	CPBICF laser plasma		nonlinear waves	Brillouin scat.	
W Ger	Bochum		Ruhr Univ.		Handke
Phys. Rev. Lett. 51, No.18, p1660 (1983)					
457	SOLIDS organic super.		(TMTSF)2ClO4	resistance	
France	Toulouse		Labo. de Physique des Solides		Ulmet
Phys. Lett. 98A, No.8-9, p457 (1983)					
458	PLASMA ion Bernstein		B-field	diagnostic	
France	Palaiseau		Ecole Poly.		Lehner
Phys. Lett. 98A, No.8-9, p414 (1983)					
459	BASICS chaos		nonlinear TL	experiment	
UK	Oxford		Clarendon Lab.		Usher
Phys. Lett. 98A, No.8-9, p396 (1983)					
460	DIAGNO laser-Doppler		multicolor	entrained drops	
UK	Cardiff		Univ. College		Yeoman
Phys. Bull. 1983, p497					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
461	LASERS	CO2	waveguide	rf excited	
UK	Hull		Univ. of Hull		He
Appl. Phys. Lett. 43, No.8, p726 (1983)					
462	CHEMAT	etching	polymers	XeCl laser	
UK	Hull		Univ. of Hull		Andrew
Appl. Phys. Lett. 43, No.8, p717 (1983)					
463	SOLIDS	organic	electronics	review	
UK	Wembley		Hirst Research Centre GEC		Scotter
European Phys. Soc. Bull. p5 (1983)					
464	HYDROD	surface waves	visco-elastic	theory	
Spain	Madrid		Univ. Complutense		Tejero
Phys. Lett. 98A, No.7, p371 (1983)					
465	PLASMA	muon catalyzed	back decay	resonances	
UK	Didcot		AERE Harwell		Lane
Phys. Lett. 98A, No.7, p337 (1983)					
466	LASERS	dye	photon stat.	non-Markovian	
W Ger	Essen		Univ. Essen		Schenzle
Phys. Lett. 98A, No.7, p319 (1983)					
467	BMSRAD	2d beam	varying B-field	Brillouin flow	
France	Orleans		CNRS		Duranceau
Phys. Lett. 98A, No.7, p309 (1983)					
468	PLASMA	disruption	driftwave	transport	
W Ger	Julich		Kernforsch. Julich		Hasselberg
Nucl. Fusion 23, No.10, p1351 (1983)					
469	PLASMA	tokamak	density limit	MHD theory	
Sweden	Stockholm		Royal Inst. of Tech.		Lehnert
Nucl. Fusion 23, No.10, p1327 (1983)					
470	PLASMA	spin polarized	reactors	B-field effect	
Nether	Nieuwegein		Inst. voor Plasmafysica		Lodder
Phys. Lett. 98A, No.4, p179 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
471	HYDROD	sea ice	acceleration	effect on growth	
UK	Cambridge		Polar Res. Inst.		Langhorne
Nature 305, p695, 20 Oct 83					
472	HYDROD	channel flow	oscillating	constriction	
UK	Cambridge		Univ. of Cambridge		Stephanoff
Nature 305, p692, 20 Oct 83					
473	CPBICF	EM waves	relativistic plas	solitons	
W Ger	Bochum		Ruhr Univ.		Shukla
Phys. Fluids 26, no.9, p2488 (1983)					
474	HYDROD	boundary layer	strained	expt. and theory	
France	Toulouse		ONERA		Cousteix
Phys. Fluids 26, No.9, p3299 (1983)					
475	SOLIDS	critical behav	x-ray and neutron	scattering	
W Ger	Munich		Univ. Munchen		Dietrich
Phys. Rev. Lett. 51, No.16, p1469 (1983)					
476	HYDROD	flame	dynamics	laser diagno	
France	Marseille		Univ. de Provence		Searby
Phys. Rev. Lett. 51, No.16, p1450 (1983)					
477	BASICS	neutron	interference	accel. frame	
W Ger	Dortmund		Univ. Dortmund		Bonse
Phys. Rev. Lett. 51, No.16, p1401 (1983)					
478	HYDROD	evaporation	metals	1D simulation	
Israel	Beer-Sheva		Nuclear Res. Cen. Negev		Havazelet
J. Phys. D16, p1917 (1983)					
479	PLASMA	negative ions	production	wall effects	
UK	Coleraine, N. Ire.		New Univ. of Ulster		Graham
J. Phys. D16, p1907 (1983)					
480	ATOMIC	ionization	laser induced	two-step process	
Egypt	Giza		Cairo Univ.		Gamal
J. Phys. D16, p1901 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
481	HYDROD	detonation	blast waves	kinematics	
UK	Dyfed		Univ. College of Wales		Thomas
J. Phys. D16, p1881 (1983)					
482	LASERS	atomic Hg	gain	spectroscopy	
UK	Manchester		Manchester Univ.		Skippon
J. Phys. D16, p1837 (1983)					
483	LASERS	CO2	e-beam pumped	thermal defoc.	
UK	Great Malvern		Royal Sig. & Radar Estab.		Gorton
J. Phys. D16, p1827 (1983)					
484	LASERS	CO2 waveguide	capillary	rf discharge	
Ireland	Cork		Univ. College		Sexton
EOARD Proposal 84-004 (1983)					
485	PLASMA	low p discharge	microwave excited	model	
France	Orsay		Univ. Paris Sud		Ferreira
J. Phys. D16, p1673 (1983)					
486	BMSRAD	Hg lamp	time dependence	numerics	
W Ger	Aachen		Philips GmbH Forsch.		Stromberg
J. Appl. Phys. 54, No.8, p4338 (1983)					
487	CHEMAT	thin films	plasma deposition	amorphous C	
W Ger	Freiburg		Fraunhofer Inst.		Bubenzer
J. Appl. Phys. 54, no.8, p4590 (1983)					
488	LASERS	rf waveguide	voltage distrib	TL theory	
UK	Hull		Univ. of Hull		He
J. Appl. Phys. 54, No.8, p4367 (1983)					
489	CHEMAT	Si annealing	e-beam	thermal stress	
Italy	Bologna		CNR-Inst. Lamel		Correra
J. Appl. Phys. 54, No.8, p4330 (1983)					
490	SOLIDS	Ge photoconductor	IR detection	performance	
W Ger	Stuttgart		Univ. Stuttgart		Dodel
J. Appl. Phys. 54, No.8, p4254 (1983)					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
491	PLASMA	boundary layer	instability	analysis	
Israel	Haifa		Technion		Ron
Phys. Fluids 26, No.8, p2276 (1983)					
492	HYDROD	liquid metal	blow off	two phase	
W Ger	Munich		Hochs. der Bundeswehr		Hornung
Phys. Fluids 26, No.8, p2120 (1983)					
493	HYDROD	shear flow	turbulence	spectra	
France	Marseille		Inst. Mecan. Stat. de la Turb.		Fulachier
Phys. Fluids 26, No.8, p2105 (1983)					
494	HYDROD	vortex pairing	low-Re jet	velocimetry	
Belgium	Brussels		Univ. Libre de Bruxelles		Meynart
Phys. Fluids 26, No.8, p2074 (1983)					
495	COMPUT	Monte Carlo	time scale	experiments	
Denmrk	Copenhagen		Univ. of Copenhagen		Larsen
Phys. Lett. 97A, no.4, p147 (1983)					
496	WETHER	Earthquake light	UFOs	study	
UK	Welshpool		TLH		Devereux
New Scientist, p627, 1 Sept 83					
497	PLASMA	impurities	non-equilibrium	coronal model	
UK	Abingdon		Culham Lab.		Carolan
Plasma Phys. 25, No.10, p1065 (1983)					
498	PLASMA	laser fluores	H density	measurement	
UK	London		Imperial College		Gohil
Plasma Phys. 25, No.10, p1149 (1983)					
499	DIAGNO	thermometry	CARS	auto engines	
Italy	Orbassano		Fiat Research Center		Alessandretti
J. Phys. D16, p1583 (1983)					
500	ATOMIC	argon	excitation	cross sections	
Portug	Lisbon		Univ. Tecnica		Ferreira
J. Phys. D16, p1611 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
501	ATOMIC	He-Co	ionization	glow discharge	
Israel	Jerusalem		Hebrew Univ.		Kagan
J. Phys. D16, p1687 (1983)					
502	HYDROD	water-ice	friction	effect of liquid	
Norway	Oslo		Central Inst. for Indus. Res.		Ellingsen
J. Phys. D16, p1715 (1983)					
503	SOLIDS	charge trapping	organic solid	E-field effect	
W Ger	Marburg		Phillips Univ.		Seiferheld
Phys. Rev. Lett. 51, No.9, p813 (1983)					
504	SOLIDS	microwave	phase shifter	high precision	
UK	London		Univ. College		Forrest
EOARD Project Brief, July 1983					
505	DIAGNO	energetic part.	spectrometer	satellite	
W Ger	Lindau		MPI fur Aeronomie		Korth
EOARD Proposal 83-127 (1983)					
506	CPBICF	plasma thruster	arc electrodes	development	
W Ger	Stuttgart		Univ. Stuttgart		Buhler
EOARD Proposal 83-124 (1983)					
507	DIAGNO	thin film	in situ measure	development	
France	Marseille		Univ. de Provence		Pelletier
EOARD Proposal 83-119 (1983)					
508	ATOMIC	electron	penetration	expt & theory	
Denmrk	Lynby		Tech. Univ. of Denmark		Hansen
J. Phys. D16, p1353 (1983)					
509	CPBICF	SF6	breakdown	inhomo gaps	
Switz	Baden-Dattwil		Brown Boveri & Cie Res. Cen.		Pinnekamp
J. Phys. D16, p1293 (1983)					
510	BMSRAD	high p lamp	temp. deter.	spectral line	
Greece	Iraklion		Univ. of Crete		Karabourniotis
ESN 37-6 and J. Phys. D16, p1267 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
511	CPBICF	laser target	compression	uniformity	
UK	Didcot		Rutherford Appleton Lab.		Ross
J. Phys. D16, p1245 (1983)					
512	PLASMA	nonideal	screening	conductivity	
E Ger	Berlin		Akad. der Wissenschaften		Gunther
J. Phys. D16, p1235 (1983)					
513	HYDROD	shear flow	strong rotation	free-molecular	
UK	Guildford		Univ. of Surrey		Johnson
J. Phys. D16, p1201 (1983)					
514	PLASMA	turbulence	atom heat flow	TFR tokamak	
France	Fontenay-aux-Roses		Cen. d'Etudes Nucleaires		Equipe TFR
Plasma Phys. 25, No.6, p641 (1983)					
515	PLASMA	turbulence	diagnosis	forward scat.	
UK	Abingdon		Culham Lab.		Evans
Plasma Phys. 25, No.6, p617 (1983)					
516	PLASMA	density clamp	neutral heating		
UK	Abingdon		Culham Lab.		Erents
Nucl. Fusion 23, no.7, p933 (1983)					
517	CPBICF	laser target	compression	polymer shell	
UK	London		Imperial College		Kilkenny
Appl. Phys. Lett. 43, no.3, p233 (1983)					
518	LASERS	GaAs-GaAlAs	optical pump	short pulse	
UK	London		Imperial College		Dawson
Appl. Phys. Lett. 43, no.3, p226 (1983)					
519	BASICS	solitons	Schrodinger eqn	transverse instab	
Nether	DeBilt		Royal Nether. Meteor. Inst.		Janssen
Phys. Fluids 26, no.5, p1279 (1983)					
520	PLASMA	magnetic island	coalescence	MHD	
Sweden	Goteborg		Chalmers Univ. of Tech.		Bondeson
Phys. Fluids 26, no.5, p1275 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
521	PLASMA	mode conversion	rf heating	unified theory	
UK	St. Andrews		Univ. of St. Andrews		Cairns
Phys. Fluids 26, no.5, p1268 (1983)					
522	PLASMA	tearing mode	nonlinear	inertia & viscos	
France	Fontenay-aux-Roses		Cen. d'Etudes Nucleaires		Ederly
Phys. Fluids 26, no.5, p1165 (1983)					
523	CPBICF	spark discharge	air & SF6	Schlieren photo	
France	Pau		Univ. de Pau		Gibert
J. Phys. D16, p1439 (1983)					
524	LASERS	HgBr & HgI	TE discharge	performance	
UK	Manchester		Manchester Univ.		Kvasnik
J. Phys. D16, p1419 (1983)					
525	HYDROD	gas centrifuge	couette flow	integral eqn	
UK	London		City of London Poly		Cassell
J. Phys. D16, p1391 (1983)					
526	PLASMA	rev. field pinch	B-field fluc.	Eta-Beta II	
Italy	Padua		Assoc. Euratom, CNR		Antoni
Plasma Phys. 25, no.7, p799 (1983)					
527	PLASMA	current coupling	ECRH and ohmic	Fokker-Planck	
UK	Abingdon		Culham Lab.		Start
Plasma Phys. 25, no.7, p793 (1983)					
528	PLASMA	oxygen impur.	edge penetration	tokamak	
Sweden	Stockholm		Royal Inst. of Tech.		Tendler
Plasma Phys. 25, no.7, p767 (1983)					
529	PLASMA	ICRH coupling	tokamak plasma	wave equation	
Belgium	Brussels		Ecole Royale Militaire		Bhatnager
Plasma Phys. 25, no.7, p755 (1983)					
530	CPBICF	REB-EM wave coup	plasma equilib	microwaves	
Bulgar	Sofia		Sofia Univ.		Ivanov
Plasma Phys. 25, no.8, p865 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
531	PLASMA	electrostatic	modes in torus	numerics	
Austri	Innsbruck		Univ. Innsbruck		Keil
Plasma Phys. 25, no.8, p841 (1983)					
532	CPBICF	plasma focus	self-organization	min. energy	
W Ger	Stuttgart		Univ. Stuttgart		Deutsch
Plasma Phys. 25, no.8, p833 (1983)					
533	HYDROD	ultrasonic	scattering	guided waves	
France	Paris		Univ. Paris VII		Fekih
Phys. Lett. 96A, no.7, p379 (1983)					
534	PLASMA	convection	viscous effect	interchange	
France	Fontenay-aux-Roses		Cen. d'Etudes Nucleaires		Paris
Phys. Lett. 96A, no.7, p350 (1983)					
535	CPBICF	ablation	laser-target	vs. wavelength	
UK	Didcot		Rutherford Appleton Lab.		Key
Phys. Fluids 26, no.7, p2011 (1983)					
536	PLASMA	strong EM wave	inhomo plasma	relativistic	
France	Villeneuve-St-Georges		CEA Limeil		Bourdier
Phys. Fluids 26, no.7, p1804 (1983)					
537	HYDROD	Rayleigh-Taylor	electrohydro	nonlinear	
Egypt	Cairo		Ain Shams Univ.		El Magd
Phys. Fluids 26, no.7, p1724 (1983)					
538	PLASMA	double layer	ion acoustic	KdV equation	
France	Issy-les-Moulineaux		CNET/CRPE		Chanteur
Phys. Fluids 26, no.6, p1584 (1983)					
539	HYDROD	strong shocks	relativistic	damping	
Italy	Catania		Univ. di Catania		Anile
Phys. Fluids 26, no.6, p1450 (1983)					
540	PLASMA	convective cells	external excite	evolution	
Denmrk	Roskilde		Riso Nat. Lab		Sugai
Phys. Fluids 26, no.6, p1388 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
541	WETHER	solar	flux tubes		
UK	St. Andrews		Univ. of St. Andrews		Roberts
Nature 304, p401, 4 Aug 83					
542	SOLIDS	polymers	elec-phonon sys	phase trans.	
Israel	Rehovot		Weizmann Inst. of Sci.		Horovitz
Phys. Rev. Lett. 50, no.24, p1942 (1983)					
543	PLASMA	strong coupled	thermal relax.	numerics	
France	Paris		Univ. Pierre et Marie Curie		Hansen
Phys. Lett. 97A, no.1-2, p42 (1983)					
544	PLASMA	electro-hydro	quantum mech	micro. eqns.	
UK	London		Queen Mary College		Sewell
Phys. Lett. 97A, no.1-2, p35 (1983)					
545	ATOMIC	VUV spectra	He bubbles	in Al and tin	
Belgium	Brussels		Facultes Univ. N.D. de la Paix		Donnelly
Appl. Phys. Lett. 43, no.1, p35 (1983)					
546	ATOMIC	spontan emission	cavity enhanced	single atom	
France	Paris		Ecole Normale Superieure		Goy
Phys. Rev. Lett. 50, no.24, p1903 (1983)					
547	LASERS	chemical	O2-heavy metal	visible cw	
Israel	Beer-Sheva		Ben Gurion Univ. Negev		Rosenwaks
EOARD proposal 83-045 (1983)					
548	CPBICF	propulsion	discharge dynamics	stability	
W Ger	Stuttgart		Univ. Stuttgart		Schrade
EOARD Project Brief, 3 Aug 1983					
549	LASERS	diode amplifier	optical & elec	sensors	
Irland	Dublin		Trinity College		Bradley
EOARD Proposal 83-136 (1983)					
550	ENERGY	geothermal	hot rocks	water injection	
UK	West Cornwall		Inst. for Geological Sci.		Batchelor
New Scientist, p24, 7 Jul 83					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
551	ENERGY	wind turbine	vertical axis	Carmarthan Bay	
UK	Reading		Univ. of Reading		Musgrove
New Scientist, p102, 14 Jul 83					
552	CHEMAT	catalyst	metal clusters	gasification	
W Ger	Aachen		Aachen Tech. College		Roper
New Scientist, p100, 14 Jul 83					
553	SOLIDS	polyacetylene	IR activity	photoinduced	
Israel	Haifa		Technion		Vardeny
Phys. Rev. Lett. 50, no.25, p2032 (1983)					
554	CPBICF	REB	drift velocity	measurements	
Israel	Jerusalem		Hebrew Univ.		Avivi
Appl. Phys. Lett. 42, no.11, p948 (1983)					
555	CPBICF	arc plasma	SF6-N2	transport coef.	
France	Toulouse		Univ. Paul Sabatier		Gleizes
J. Appl. Phys. 54, no.7, p3777 (1983)					
556	LASERS	flashlamps	excimers	TII pump	
Switz	Bern		Univ. of Bern		Gerber
J. Appl. Phys. 54, no.7, p3732 (1983)					
557	ATOMIC	optogalvanic	dye laser pumped	neon discharge	
Israel	Beer-Sheva		Ben Gurion Univ. Negev		Ben-Amar
J. Appl. Phys. 54, no.7, p3688 (1983)					
558	PLASMA	surface wave	rf launcher	theory	
Bulgar	Sofia		Sofia Univ.		Mateev
J. Appl. Phys. 54, no.6, p3049 (1983)					
559	HYDROD	solitons	fluid in tubes	nonlin wave eqn	
W Ger	Kiel		Univ. of Kiel		Thielheim
J. Appl. Phys. 54, no.6, p3036 (1983)					
560	WETHER	solar oscil	Doppler measure	temp. inhom	
UK	Cardiff		Univ. College		Edmunds
Nature 302, p810, 28 Apr 83					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
561	SOLIDS	solitons	diatomic chains	quartic potential	
France	Dijon		Univ. de Dijon		Pneumatikos
J. Phys. C16, pL305 (1983)					
562	LASERS	Na-dimer	supersonic	optically pumped	
W Ger	Kaiserslautern		Univ. Kaiserslautern		Jones
Appl. Phys. Lett. 42, no.3, p222 (1983)					
563	BASICS	Abel inversion	analytic rep.	exptl data	
UK	London		King's College		Deutsch
Appl. Phys. Lett. 42, no.3, p237 (1983)					
564	PLASMA	trap-elec instab.	curvature driven	EM theory	
Sweden	Goteborg		Chalmers Univ. of Tech.		Anderson
Phys. Rev. A27, no.3, p1556 (1983)					
565	DIAGNO	soft x-ray	optics	multilayer films	
UK	Aberdeen		Univ. of Aberdeen		Marr
Phys. Bull. 1983.					
566	ATOMIC	Rydberg maser	super-radiant	microwaves	
France	Paris		Ecole Normale Supérieure		Moi
Phys. Rev. A27, no.4, p2043 (1983)					
567	CPBICF	laser plasma	non LTE	brems. emission	
France	Palaiseau		Ecole Poly.		Lamoureux
Phys. Lett. 95A, no.6, p297 (1983)					
568	DIAGNO	e-beam scan	Joshephson junc	imaging	
W Ger	Tubingen		Univ. Tubingen		Seifert
Phys. Lett. 95A, no.6, p326 (1983)					
569	PLASMA	impurity	transport	heavy lines	
France	Fontenay-aux-Roses		Cen. d'Etudes Nucleaires		TFR group
Nucl. Fusion 23, no.5, p559 (1983)					
570	CPBICF	laser plasma	refrac & absorb	ray optics	
UK	Hull		Univ. of Hull		Pert
Plasma Phys. 25, no.4, p387 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
571	PLASMA	ECRH drive	local absorp	Fokker-Planck	
UK	Abingdon		Culham Lab.		Start
Plasma Phys. 25, no.4, p447 (1983)					
572	DIAGNO	fiber size	forward scat	eikonal approx	
UK	Cardiff		Univ. College		Sharma
J. Phys. D16, p733 (1983)					
573	HYDROD	Stokes flow	fibrous filters	variational prin	
UK	Sheffield		Health & Safety Executive		Brown
J. Phys. D16, p743 (1983)					
574	CPBICF	nozzle arcs	wall ablation	dc expts	
UK	Liverpool		Univ. of Liverpool		Fang
J. Phys. D16, p793 (1983)					
575	CPBICF	carbon arc	CO2 laser	interaction	
UK	Colchester		Univ. of Essex		Hughes
J. Phys. D16, p811 (1983)					
576	CPBICF	nitrogen arc	atm pressure	non LTE expts	
France	Toulouse		Univ. Paul Sabatier		Bacri
J. Phys. D16, p829 (1983)					
577	CPBICF	CO2 target	voltage generate	pulse shape det.	
UK	Hull		Univ. of Hull		Cook
J. Phys. D16, p889 (1983)					
578	CPBICF	line radiation	non-LTE	transfer theory	
UK	London		Imperial College		Bond
J. Phys. A14, pL239 (1983)					
579	BASICS	jellium	stat. mech.	2d circular	
Norway	Oslo		Univ. of Oslo		Johannesen
J. Phys. A16, p1449 (1983)					
580	ATOMIC	dissoc. recomb.	afterglow	temp. depend.	
UK	Birmingham		Univ. of Birmingham		Alge
J. Phys. B16, p1433 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
581	ATOMIC	multiple ions	photon absorp	rare gases	
France	Gif-sur-Yvette		CEN Saclay		L'Huillier
J. Phys. E16, p1363 (1983)					
582	ATOMIC	N2 glow dis.	emission spec	temp. measure	
France	Orsay		Univ. Paris Sud		Plain
Phys. Lett. 95A, no.5, p235 (1983)					
583	WETHER	ionosphere	rf heating		
UK	Cambridge		Univ. of Cambridge		Budden
Plasma Phys. 25, no.2, p113 (1983)					
584	WETHER	solar activity	MHD	summary	
UK	St. Andrews		Univ. of St. Andrews		Priest
Plasma Phys. 25, no.2, p161 (1983)					
585	PLASMA	neutral injec	fast ions	MC-FP compar.	
France	Fonteney-aux-Roses		Cen. d'Etudes Nucleaires		TFR Group
Nucl. Fusion 23, no.4, p425 (1983)					
586	ENERGY	photochem convert	yield limits	effect of climate	
Italy	Naples		Univ. degli Studi		Amato
J. Phys. D16, p1371 (1983)					
587	LASERS	He-I	hollow cathode	operation	
UK	York		Univ. of York		Kassab
J. Phys. D16, p1167 (1983)					
588	DIAGNO	far UV astron.	mirrors	coatings	
UK	Didcot		Rutherford Appleton Lab.		Burton
J. Phys. D16, pL129 (1983)					
589	BASICS	liquid helium	quantized	evaporation	
UK	Exeter		Univ. of Exeter		Baird
Nature 304, p325, 28 Jul 83					
590	ATOMIC	x-ray absorbtion	photoemission	selection rules	
France	Orsay		Univ. Paris Sud		Esteva
Phys. Rev. Lett. 50, no.12, p910 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
591	PLASMA	solitons	character	expts + KdV	
France	Nancy		Faculte des Science, CNRS		Pierre
Phys. Lett. 95A, no.3-4, p159 (1983)					
592	BASICS	solitons	DNA	micro. model	
W Ger	Berlin		Freie Univ. Berlin		Jensen
Phys. Lett. 95A, no.3-4, p204 (1983)					
593	PLASMA	solitons	surface waves	electrostatics	
Sweden	Umea		Univ. of Umea		Stenflo
Phys. Fluids 26, no.3, p604 (1983), Gradov and Stenflo					
594	HYDROD	laminar flow	rotating pipe	numerics	
UK	Manchester		Manchester Univ.		Duck
Phys. Fluids 26, no.3, p614 (1983)					
595	HYDROD	binary alloy	melt	hydro. stability	
UK	Great Malvern		Royal Sig. & Radar Estab.		Hurle
Phys. Fluids 26, no.3, p624 (1983)					
596	HYDROD	intermittency	near wake	cylin expts.	
France	Toulouse		Cen. Nat. de la Res. Sci.		Boisson
Phys. Fluids 26, no.3, p653 (1983)					
597	WETHER	solar rotation	internal	hydro. instab	
W Ger	Garching		MPI fur Physik und Astrophys.		Spruit
Nature 304, p520, 11 Aug 83					
598	PLASMA	Saha equation	relativistic	perfect gas	
France	Paris		Labo. de Phys. Theorique, CNRS		Kichenassamy
J. Phys. A16, p2347 (1983)					
599	PLASMA	disruptions	TFR tokamak	expt + model	
France	Fontenay-aux-Roses		Cen. d'Etudes Nucleaires		Dubois
Nucl. Fusion 23, no.2, p147 (1983)					
600	PLASMA	charge-exch.	neutral tof	Tortur II	
Nether	Nieuwegein		Inst. voor Plasmafysica		Brocken
Plasma Phys. 25, no.3, p317 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
601	PLASMA	magsonic waves	atenuation	drift turb.	
Switz	Fribourg		Univ. of Fribourg		Vaucher
Plasma Phys. 25, no.3, p331 (1983)					
602	ATOMIC	Rydberg state	stimulated rad.	corrections	
France	Orsay		Cen. Nat. de la Res. Sci. II		Lieberman
Phys. Rev. Lett. 50, no.12, p888 (1983)					
603	SOLIDS	Si melt & resolid	laser irrad.	velocities	
UK	Great Malvern		Royal Sig. & Radar Estab.		Cullis
Phys. Rev. Lett. 50, no.12, p896 (1983), Thompson et al					
604	CPBICF	res. absorption	density profile	self consistant	
France	Gif-sur-Yvette		CEN Saclay		David
Phys. Fluids 26, no.3, p747 (1983)					
605	PLASMA	D2 pellet	vaporization	tokamak	
Denmrk	Roskilde		Riso Nat. Lab.		Chang
Phys. Fluids 26, no.3, p805 (1983)					
606	SOLIDS	electrostatics	hazards	semiconductors	
UK	Southampton		Univ. of Southampton		Hughes
Phys. Bull. 34 (1983) Conf. review					
607	SOLIDS	N2 diffusion	titanium	annealing	
Finlnd	Helsinki		Univ. of Helsinki		Anttila
Appl. Phys. Lett. 42, no.6, p498 (1983)					
608	HYDROD	turb. transport	rotating sys.	helicity	
UK	Cambridge		Univ. of Cambridge		Moffatt
Rep. Prog. Phys. 46, p621 (1983)					
609	SOLIDS	polarons	doped plastic	electron scat.	
W Ger	Julich		Kernforsch. Julich		Crecelius
Phys. Rev. Lett. 50, no.19, p1498 (1983)					
610	PLASMA	radiation loss	density limit	Eta-Beta II	
Italy	Padua		Univ. di Padova		Costa
Nucl. Fusion 23, no.10, p1301 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
611	LASERS	CO2	self absorption	runaway	
UK	Abingdon		Culham Lab.		Kaye
Appl. Phys. Lett. 42, no.8, p641 (1983)					
612	SOLIDS	bioelectronics	Langmuir-Blodgett	optical switch	
W Ger	Göttingen		MPI für Biophysikalische Chemie		Kuhn
Science 220, p940 (1983). NRL mtg. review					
613	DIAGNO	electron micro	surface imaging	metal particles	
UK	Cambridge		Univ. of Cambridge		Marks
Nature 303, p316, 26 May 83					
614	CHEMAT	laser processing	silicon	review	
UK	Edinburgh		Heriot Watt Univ.		Boyd
Nature 303, p481, 9 Jun 83					
615	CHEMAT	ignition hazard	rf radiation	assessment	
UK	Bradford		Univ. of Bradford		Excell
EOARD Proposal 83-110 (1983)					
616	PLASMA	viscosity	spectroscopy	traveling wave	
W Ger	Essen		Fachbereich Physik		Hellermann
Phys. Fluids 26, no.4, p1054 (1983)					
617	CPBICF	Ar pos. column	low pressure	expt & model	
Portug	Lisbon		Inst. Superior Tecnico		Ferreira
J. Appl. Phys. 54, no.5, p2261 (1983)					
618	CPBICF	ion acoustic	stim. Brillouin	harmonic theory	
Switz	Baden-Dättwil		Brown Boveri & Cie Res. Cen.		Gellert
Phys. Lett. 96A, no.1, p16 (1983)					
619	BASICS	Sine Gordon	Weierstrass f	solutions	
Denmrk	Lyngby		Tech. Univ. of Denmark		Saermark
Phys. Lett. 95A, no.8, p409 (1983)					
620	SOLIDS	heavy ion	slowing down	numerics	
Finlnd	Helsinki		Univ. of Helsinki		Hautala
Phys. Lett. 95A, no.8, p436 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
621	HYDROD	relativistic gas	distribution func	kinetic theory	
Italy	Milan		Politecnico di Milano		Cercignani
Phys. Rev. Lett. 50, no.15, p1122 (1983)					
622	CPBICF	stim. Brillouin	backscattering	prevention	
France	Nice		Observ. de Nice		Montes
Phys. Rev. Lett. 50, no.15, p1129 (1983)					
623	CPBICF	laser plasma	self focusing	numerics	
UK	London		Westfield College		Sartang
J. Phys. D16, p955 (1983)					
624	CPBICF	scattering	test particle	random phase	
UK	Birmingham		Univ. of Birmingham		Beynon
J. Phys. D16, p977 (1983)					
625	PLASMA	Langmuir probe	argon jet	shock wake	
France	Meudon		Univ. Pierre et Marie Curie		Dudeck
J. Phys. D16, p995 (1983)					
626	CPBICF	leader discharge	SF6	model	
Switz	Baden-Dattwil		Brown Boveri & Cie Res. Cen.		Niemeyer
J. Phys. D16, p1031 (1983)					
627	ATOMIC	stored ions	buffer gas	distribution func	
France	Marseille		Univ. de Provence		Vedel
Phys. Rev. A27, no.5, p2321 (1983)					
628	BASICS	phase interface	fluctuations	dynamics	
W Ger	Aachen		Tech. Univ. Aachen		Schlogl
Phys. Rev. A27, no.5, p2698 (1983)					
629	HYDROD	Taylor diffusion	sedimentation	laminar flow	
Belgium	Brussels		Vrije Univ. Bruxelles		Vanden Broe
Phys. Rev. A27, no.5, p2727 (1983)					
630	CPBICF	z-pinch	gas embedded	laser initiated	
UK	London		Imperial College		Dangor
Phys. Rev. A27, no.5, p2751 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
631	HYDROD	gas diffu. column	steady state	simplified	
Spain	Pais Vasco		Facultad de Ciencias		Madariaga
J. Phys. A16, p1947 (1983)					
632	DIAGNO	phototelec. micro	x-ray & atom	image generators	
UK	Oxford		Oxford Univ.		Plummer
Nature 303, p599, 16 Jun 83					
633	PLASMA	neutral heating	ion tail	ICRF	
Sweden	Goteborg		Chalmers Univ. of Tech		Pekkari
Nucl. Fusion 23, no.6, p781 (1983)					
634	HYDROD	Scholte wave	Rayleigh wave	wetting & angle	
France	Paris		Univ. Paris VIII		De Billy
Phys. Lett. 96A, no.2, p85 (1983)					
635	PLASMA	LF modes	tokamak	2-fluid model	
UK	Abingdon		Culham Lab.		Thyagaraja
Plasma Phys. 25, no.5, p459 (1983)					
636	ATOMIC	Raman spectra	living cells	LF lines	
Italy	Milan		Univ. degli Studi di Milano		Rottoli
Phys. Lett. 96A, no.3, p157 (1983)					
637	LASERS	semiconductor	bistability	hysteresis	
Ireland	Dublin		Trinity College		Stallard
Appl. Phys. Lett. 42, no.10, p858 (1983)					
638	LASERS	KrCl excimer	discharge pumped	performance	
Italy	Lecce		Univ. di Lecce		Armandillo
Appl. Phys. Lett. 42, no.10, p860 (1983)					
639	COMPUT	display	electrochromic	viologen based	
UK	Winchester		IBM UK Labs Ltd.		Barclay
Appl. Phys. Lett. 42, no.10, p911 (1983)					
640	BASICS	fractional charge	semiconductor	spectral search	
Nether	Nijmegen		Univ. of Nijmegen		Vandersteeg
Phys. Rev. Lett. 50, no.17, p1234 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
641	WETHER	magnetosphere	plasma composite	solar cycle	
UK	London		Imperial College		Cowley
Nature 303, p661, 23 Jun 83					
642	SOLIDS	ferromagnetic	domains	observation	
UK	Durham		Durham Univ.		Parpia
Nature 303, p684, 23 June 83					
643	CPBICF	soliton	laser pulse	plasma propagate	
W Ger	Bochum		Ruhr Univ.		Shukla
Phys. Fluids 27, no.2, p327 (1984)					
644	BASICS	noise	identity map	random function	
UK	Cambridge		Cavendish Lab.		Deutsch
Phys. Rev. Lett. 52, no.14, p1230 (1984)					
645	BASICS	attractor	laser	master equation	
UK	Great Malvern		Royal Sig. & Radar Estab.		Elgin
Phys. Rev. Lett. 52, no.14, p1215 (1984)					
646	BASICS	chaos	elec. circuit	Toda oscillator	
W Ger	Göttingen		Univ. of Göttingen		Klinker
Phys. Lett. 101A, no.8, p371 (1984)					
647	HYDROD	gas motion	absorbing wall	1d Boltzmann	
Norway	Trondheim		Norwegian Inst. of Tech.		Bergstrom
Phys. Fluids 27, no.3, p583 (1984)					
648	BASICS	quadratic map	population map	log link	
Belgium	Brussels		Univ. Libre de Bruxelles		Brenig
Phys. Lett. 101A, no.9, p479 (1984)					
649	BASICS	1d maps	intermittency	period sequence	
Portug	Lisbon		CFMC-INIC		Dias de Deus
Phys. Lett. 101A, no.9, p459 (1984)					
650	BASICS	chaos	hopping	elec. circuit	
Italy	Florence		Univ. of Florence		Arecchi
ONRL Tech. Rep. R-6-84 and Phys. Lett. 101A, no.9, p443 (1984)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
651	BASICS	Ising and Potts	cellular automata	exact results	
Israel	Rehovot		Weizmann Inst. of Sci.		Domany
Phys. Rev. Lett. 52, p871 (1984)					
652	CPEICF	breakdown	elec. emission	nonlin. phenom	
UK	Birmingham		Univ. of Aston		Athwal
J. Phys. D17, p1029 (1984)					
653	SOLIDS	contact charge	insulators	solid rare gas	
UK	Manchester		UMIST		Cottrell
FSN 37-7 and J. Phys. D17, p989 (1984)					
654	SOLIDS	Hall effect	palladium	H2 diffusion	
Nether	Amsterdam		Univ. of Amsterdam		Verbruggen
Phys. Rev. Lett. 52, no.18, p1625 (1984)					
655	CPBICF	REB	scattering	turbulent plasma	
Nether	Amsterdam		Inst. for Atomic & Molec. Phys.		Hopman
Phys. Rev. Lett. 52, no.18, p1613 (1984)					
656	SOLIDS	Hall conductance	fractional	explanation	
Italy	Frascati		Ist. Naz. di Fisica Nucleare		Srivastava
Phys. Rev. Lett. 52, no.18, p1587 (1984), Friedman et al					
657	BASICS	fractals	Brownian motion	parameter	
UK	Canterbury		Univ. of Canterbury		Powles
Phys. Rev. Lett. 52, no.18, p1571 (1984)					
658	BASICS	ring gyros	adiabat. invar.	model	
UK	Canterbury		Univ. of Kent		Forder
J. Phys. A17, p1343 (1984)					
659	WETHER	convection	earth, sun, sea	mtg. review	
UK	Cambridge		Univ. of Cambridge		Huppert
Nature 303, p478, 9 Jun 83					
660	SOLIDS	solitons	acetanilide	ir absorption	
Italy	Rome		Univ. di Roma		Careri
Phys. Rev. Lett. 51, no.4, p304 (1983)					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
661	PLASMA	alpha particle	confinement	polarized DT	
Italy	Frascati		Centro Ricerche Energia-ENEA		Bittoni
Nucl. Fusion 23, no.6, p830 (1983)					
662	LASERS	XeCl TEA	grating res.	spec. narrowing	
Italy	Florence		Ist. di Elettronica Quant. CNR		Buffa
J. Phys. D16, pL125 (1983)					
663	PLASMA	dielec. sat.	res. line	Cr XXIII	
Italy	Frascati		Centro Ricerche Energia-ENEA		Apicella
Phys. Lett. 98A, no.4, p174 (1983)					
664	PLASMA	energy transport	ohmic heating	scaling laws	
Italy	Frascati		Centro Ricerche Energia-ENEA		Zampaglione
Nucl. Fusion 23, no.2, p239 (1983)					
665	BMSRAD	FEL	Adone ring	prelim. results	
Italy	Frascati		Ist. Naz. di Fisica Nucleare		Barbini
Labo. Naz. di Frascati Rep. LNF-82/77 (P), 1982					
666	CPBICF	ion interaction	ICF targets	numerics	
Spain	Madrid		Univ. Poli. de Madrid		Velarde
Dept. of Nucl. Energy Rep. DENIM 003 (1983)					
667	CPBICF	laser coupling	wave length dep	elec. temp.	
Spain	Madrid		Univ. Poli. de Madrid		Ramis
Nucl. Fusion 23, no.6, p739 (1983)					
668	DIAGNO	tunnel micro	gold	model for expt.	
Spain	Madrid		Univ. Auto. de Madrid		Garcia
Phys. Rev. Lett. 50, no.25, p2002 (1983)					
669	HYDROD	mixing layer	3d effects	water tunnel	
Spain	Madrid		Univ. Poli. de Madrid		Jimenez
USARSG Final Rep., grant 78-G-079 (1979)					
670	HYDROD	mixing layer	cine film	computer analysis	
Spain	Madrid		Univ. Poli. de Madrid		Hernan
ESN 38-6 and J. Fluid Mech. 119, p323 (1982)					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
671	HYDROD	diffusion flame	extinction	asympt. theory	
Spain	Madrid		Univ. Pol. de Madrid		Linan
Combustion Sci. and Tech 27, p143 (1982). Sohrab et al					
672	SOLIDS	MQW devices	GaAs-GaAlAs	mtg. review	
UK	Great Malvern		Royal Sig. & Radar Estab.		Anderson
Nature 305, p668, 20 Oct 83. MQW = multiple quantum well					
673	SOLIDS	MQW devices	2d excitons	spectrum	
Israel	Haifa		Technion		Katriel
Phys. Lett. 101A, no.3, p158 (1984). MQW = multiple quantum well					
674	SOLIDS	photonic logic	optical comput	review	
UK	Edinburgh		Heriot Watt Univ.		Smith
Nature 307, p315, 26 Jan 84					
675	SOLIDS	optical bistab.	InSb & GaAs	signal proc.	
UK	Edinburgh		Heriot Watt Univ.		Smith
EOAPD Proposal 84-031 (1984)					
676	SOLIDS	optical nonlin.	nonlin refrac.	1-elec theory	
UK	Edinburgh		Heriot Watt Univ.		Wherrett
Proc. Op. Bistab. Mtg. Royal Soc., London Mar. 21-22, 1984					
677	SOLIDS	optical nonlin.	semiconductors	many-body theory	
W Ger	Frankfurt		Univ. of Frankfurt		Haug
Proc. Op. Bistab. Mtg. Royal Soc., London Mar. 21-22, 1984					
678	SOLIDS	optical bistab.	CuCl	experiments	
France	Strasbourg		Univ. Louis Pasteur		Levy
Proc. Op. Bistab. Mtg. Royal Soc., London Mar. 21-22, 1984					
679	SOLIDS	optical comput.	InSb	switches & gates	
UK	Edinburgh		Heriot Watt Univ.		Prise
Proc. Op. Bistab. Mtg. Royal Soc., London Mar. 21-22, 1984					
680	SOLIDS	optical bistab	CdS	nonlin. effects	
W Ger	Frankfurt		Goethe Univ.		Klingshirn
Proc. Op. Bistab. Mtg. Royal Soc., London Mar. 21-22, 1984					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
681	SOLIDS	optical bistab.	CdHgTe	fast processes	
UK	Great Malvern		Royal Sig. & Radar Estab.		Miller
Proc. Op. Bistab. Mtg. Royal Soc., London Mar. 21-22, 1984					
682	SOLIDS	optical bistab.	dynamics	theory	
Belgium	Brussels		Univ. Libre de Bruxelles		Mandel
Proc. Op. Bistab. Mtg. Royal Soc., London Mar. 21-22, 1984					
683	SOLIDS	optical bistab.	chaotic behav.	modeling	
Italy	Milan		Univ. di Milano		Lugiato
Proc. Op. Bistab. Mtg. Royal Soc., London Mar. 21-22, 1984					
684	SOLIDS	optical bistab	size limits	diffu & defrac	
UK	Edinburgh		Heriot Watt Univ.		Firth
Proc. Op. Bistab. Mtg. Royal Soc., London Mar, 21-22, 1984					
685	SOLIDS	optical bistab	semicon. lasers	twin stripe	
UK	Cambridge		Univ. of Cambridge		Carroll
Proc. Op. Bistab. Mtg. Royal Soc., London Mar. 21-22, 1984					
686	CPBICF	FEL	guide field	elec. dynamics	
France	Palaiseau		Ecole Poly.		Vallier
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
687	DIAGNO	polychromator	far IR	conical diff.	
Nether	Nieuwegein		Inst. voor Plasmafysica		Piekaar
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
688	ATOMIC	hemoglobin	ps relaxation	mm spectra	
W Ger	Stuttgart		MPI fur Festkorperforschung		Genzel
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
689	SOLIDS	polymers	mm-wave absorp	temp. depend.	
W Ger	Stuttgart		MPI fur Festkorperforschung		Kremer
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
690	SOLIDS	quartz fibers	IR properties	measurements	
Switz	Zurich		ETH Zurich		Thieband
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
691	DIAGNO	photon drag	IR detectors	InSb	
UK	Colchester		Univ. of Essex		Kimmitt
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
692	PLASMA	electron temp	ECR absorb	FIR transmit	
France	Grenoble		Labo. de Spectro. Phys.		Dorelon
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
693	PLASMA	EC emission	tokamaks	op. thin model	
France	Fontenay-aux-Roses		Cen. d'Etudes Nucleaires		Bartlett
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
694	SOLIDS	W band oscil.	stabilization	Ba2Ti9O20	
UK	Cardiff		UWIST		Morgan
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
695	WETHER	atmosphere	IR emit & trans	chamber tests	
Switz	Zurich		ETH Zurich		Kneubuhl
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
696	WETHER	water vapor	IR absorption	interferometer	
UK	Oxford		Clarendon Lab.		Zammit
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
697	WETHER	water drops	scat & atten	100 GHz	
UK	Cardiff		UWIST		Harris
Proc. 7th Intl. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
698	ATOMIC	Rydberg atoms	mm wave interac.	Na beam	
France	Paris		Ecole Normale Superieure		Goy
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
699	SOLIDS	heterodyne detec.	FIR	Ge photocon	
Austri	Innsbruck		Univ. Innsbruck		Dodel
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
700	SOLIDS	heterodyne rec.	diplexer	693 GHz	
W Ger	Bonn		MPI fur Radioastronomie		Roser
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
701	PLASMA	Fabry-Perot	ECR measure	tokamak	
France	Fontenay-aux-Roses		Cen. d'Etudes Nucleaires		Laurent
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
702	PLASMA	reflectometer	microwave	density measure	
France	Fontenay-aux-Roses		Cen. d'Etudes Nucleaires		Simonet
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
703	PLASMA	interferometer	HCN-laser	ASDEX	
W Ger	Garching		MPI fur Plasmaphysik		Gehre
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
704	EMSRAD	gyrotron	trav. wave oscil.	nonlinear effects	
UK	London		Univ. of London		Lindsay
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
705	SOLIDS	W-Ni diodes	rectification	30-120 THz	
E Ger	Braunschweig		Phys-Tech Bundesanstalt		Klingenberg
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
706	LASERS	CH3OH	CO2 pumped	Stark effect	
France	Marseille		Univ. de Provence		Botzanowski
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
707	SOLIDS	polar liquids	absorb & refrac	50-100 GHz	
Poland	Warsaw		Polish Acad. of Sci.		Leibler
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
708	SOLIDS	FIR	paramagnetism	low temperature	
Belgium	Leuren		Katholieke Univ.		Janssen
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
709	DIAGNO	IR radiography	liq. interface	imaging	
France	Orsay		Centre Univ. d'Orsay		Loulergue
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
710	LASERS	D2O	FIR lines	CO2 pumped	
W Ger	Stuttgart		Univ. Stuttgart		Dodel
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
711	LASERS	CO2	20 atm	e-beam preion	
W Ger	Garching		MI I fur Quantenoptik		Wan
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
712	LASERS	molecular gas	mid-IR	optically pumped	
UK	Edinburgh		Heriot Watt Univ.		Harrison
Proc. 7th Int. Conf. IR & mm waves, Marseille, 14-18 Feb. 1983					
713	LASERS	FIR	freq. measure	RF beating	
Italy	Pisa		Univ. di Pisa		Inguscio
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
714	DIAGNO	bolometer	semiconductor	elec-ther. model	
France	Verrieres-le-Buisson		Service d'Atero. CNRS		Chanin
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
715	WETHER	atmosphere	trace species	IR absorp lines	
France	Reims		Labo. de Phys. Molec. CNRS		Marche
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
716	WETHER	atmos. abund.	CO	mol. rot. trans.	
W Ger	Bonn		MPI fur Radioastronomie		Wattenback
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
717	WETHER	stratosphere	sub mm spectra	balloon instrum.	
Italy	Florence		Ist. Ricerca Onde EM		Carli
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
718	SOLIDS	IR absorp	insul & semicon	phonon model	
France	Orleans		Univ. d'Orleans		Billard
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
719	LASERS	solid state	IR and FIR	elec. pumped	
Austri	Innsbruck		Univ. Innsbruck		Gornik
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
720	DIAGNO	interferometer	refrac. index	mm wavelength	
UK	Teddington		Nat. Phys. Lab.		Birch
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
721	WETHER	solar observation	FIR	balloons	
Switz	Zurich		ETH Zurich		Degiacomi
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
722	WETHER	planetary atmos	H2-He spectra	simulation	
France	Marseille		Faculte St. Jerome		Bachet
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
723	SOLIDS	acoustic waves	laser driven	nonlinear	
Switz	Zurich		ETH Zurich		Sigrist
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
724	LASERS	CW MIR	CO2 pumped	NH3 model + expt	
France	Orsay		Univ. Paris XI		Lourtioz
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
725	LASERS	CH3OH	CO2 pumped	new FIR line	
Italy	Pisa		Univ. di Pisa		Inguscio
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
726	LASERS	CW DCOF	CO2 pumped	FIR lines	
W Ger	Ulm		Univ. Ulm		Jones
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
727	LASERS	FIR molec	transients	dynamic model	
France	Villeneuve d'Ascq		Univ. de Lille I		Bootz
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
728	LASERS	liq. N2	FIR spectra	compressed	
France	Villetaneuse		Univ. Paris Nord		Marteau
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
729	ATOMIC	molec. interac.	ps time scale	IR study	
France	Paris		Univ. Pierre et Marie Curie		Vincent-Geisse
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
730	ATOMIC	mag. resonance	mm wave range	exptl tech.	
W Ger	Wurzburg		Physikalisches Inst.		Geick
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					

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<u>Ref and Notes</u>					
731	ATOMIC	FIR spectra	ferroelectrics	improved method	
France	Vardoeuvre les Nancy		Univ. Nancy I		Hadni
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
732	SOLIDS	bulk crystals	FIR	freq. doubling	
W Ger	Stuttgart		MPI fur Festkorperforschung		Mayer
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
733	SOLIDS	GaP LED	up conversion	IR to visible	
W Ger	Regensburg		Univ. Regensburg		Eisfield
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
734	DIAGNO	tunable filter	Fabry-Perot	FIR	
Italy	Florence		Ist. Ricerca Onde EM		Natale
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
735	PLASMA	ion spectra	CO2 scattering	coherent detect	
W Ger	Stuttgart		Univ. Stuttgart		Kasperek
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
736	PLASMA	density fluc.	CO2 probe	Tosca tokamak	
UK	Abingdon		Culham Lab.		Evans
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
737	PLASMA	density fluc.	forward scat.	detector array	
W Ger	Stuttgart		Univ. Stuttgart		Hellermann
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
738	PLASMA	position control	FIR interfer.	Textor tokamak	
W Ger	Julich		Kernforsch. Julich		Soltwisch
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
739	SOLIDS	optical fiber	Mid IR	telecommun.	
France	Marcoussis		Compagnie Generale d'Electricite		Brehm
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
740	DIAGNO	spectroscopy	moving mirror	FIR to VUV	
UK	London		Univ. of London		Burton
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
741	SOLIDS avalanche inj.		Impatt diode	above 100 GHz	
France	Villeneuve d'Ascq		Univ. de Lille I		Lippens
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
742	SOLIDS mm wave detec		metal-semicon	junctions	
Sweden	Goteborg		Chalmers Univ. of Tech.		Zirath
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
743	SOLIDS mm wave mixer		cryo Schottky	low noise	
Finlnd	Helsinki		Helsinki Univ. of Tech.		Raisanen
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
744	SOLIDS plasmon excit.		Cd3As2	FT mag reflec	
Nether	Eindhoven		Eindhoven Univ. of Tech.		Blom
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
745	SOLIDS surface polarons		CsBr	mesh coupler	
W Ger	Wurzburg		Univ. Wurzburg		Tegtmeier
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
746	DIAGNO FIR interfer.		small gap semis	magneto-optics	
Austri	Leoben		Montanuniv. Leoben		Klein
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
747	BMSRAD back wave oscil.		properties, modes	setups	
France	Boulogne-Billancourt		Thomson-CSF		Epsztein
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
748	HYDROD Benard convec.		temp. dist.	IR camera	
France	Marseille		Labo. de Thermophysique		Cerisier
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
749	WETHER mm wave		imaging	antenna array	
UK	Redhill		Philips Research Labs.		Dewey
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
750	WETHER atmos. transmit		FIR laser	Scottky detec.	
UK	Seven Oaks		Royal Armament Res. & Devel. Estab.	Thomas	
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
751	WETHER	atmos. transmit.	CO2 bands	experiment	
France	Rennes		Univ. de Rennes I		Boulet
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
752	WETHER	atmos. transmit	N2O absorp.	line profile calc	
France	Orsay		Univ. Paris Sud		Lacome
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
753	WETHER	atmos. detection	NO2	FT spectra	
France	Orsay		Labo. Phys. Mol. et Opt. Atmo CNRS		Flaud
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
754	LASERS	FIR	optically pumped	stability	
France	Paris		Labo. Primaire Temps & Freq.		Dahmani
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
755	LASERS	D2O	performance	effect of buffer	
Switz	Lausanne		Ecole Poly. Federale		Behn
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
756	LASERS	FIR	high power	multi modes	
Switz	Lausanne		Ecole Poly. Federale		Dupertuis
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
757	LASERS	distrib feedback	dispersion rel.	theory	
Switz	Zurich		ETH Zurich		Gnepf
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
758	LASERS	distrib feedback	helical waveguide	optically pumped	
Switz	Zurich		ETH Zurich		Preiswerk
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
759	LASERS	FIR waveguide	outcoupling	under 40 micron	
Nether	Nijmegen		Univ. of Nijmegen		Sigg
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
760	SOLIDS	GaAs	optical const.	FIR spectra	
UK	London		Univ. of London		Jamshidi
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
761	SOLIDS	FIR	freq. measure	Schottky diodes	
W Ger	Braunschweig		Phys.-Tech. Bundesanstalt		Weiss
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
762	SOLIDS	Schottky diodes	heterodyne	sub mm	
W Ger	Bonn		MPI fur Radioastronomie		Durwin
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
763	SOLIDS	Schottky varistor	back radiation	sub mm excite	
France	Paris		Univ. Pierre et Marie Curie		Kreisler
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
764	DIAGNO	FIR interfer.	Fabry-Perot	grating spec.	
France	Marseille		Faculte St. Jerome		Blancher
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
765	CHEMAT	sub mm	FIR	industry appl.	
UK	Teddington		Nat. Phys. Lab.		Blaney
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
766	LASERS	HeNe	chaos	experiments	
W Ger	Braunschweig		Phys.-Tech. Bundesanstalt		Weiss
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
767	LASERS	NH3	ground state	FIR gain calc	
W Ger	Braunschweig		Phys.-Tech. Bundesanstalt		Willenberg
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
768	LASERS	N2O	bistability	Q-switching	
W Ger	Braunschweig		Phys.-Tech. Bundesanstalt		Won
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
769	LASERS	CH3OH	FIR lines	optically pumped	
Denmrk	Copenhagen		Univ. of Copenhagen		Henningsen
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
770	LASERS	CH3OH	and isotopes	FIR spectra	
Italy	Pisa		Univ. di Pisa		Moruzzi
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
771	CPBICF FEL		wiggler-free	nonlin. effects	
Israel	Jerusalem		Hebrew. Univ.		Friedland
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
772	LASERS CO2 waveguide		tunability	diff. grating	
Irland	Cork		Univ. College		Holohan
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
773	SOLIDS optical const.		commercial mat.	mm & sub mm	
UK	Teddington		Nat. Phys. Lab.		Birch
Proc. 7th Int. Conf. IR & mm Waves, Marseille, 14-18 Feb. 1983					
774	CPBICF plasma targets		cp interactions	deposition calc	
Israel	Rehovot		Weizmann Inst. of Sci.		Nardi
Proc. BEAMS 83, San Francisco, 12-14 Sept. 1983					
775	CPBICF LIB		target interac.	Sidonix II expt	
France	Is-sur-Tille		CEA Valduc		Bernard
Proc. BEAMS 83, San Francisco, 12-14 Sept. 1983					
776	CPBICF ion generation		carbon	laser heat anode	
France	Is-sur-Tille		CEA Valduc		Camarcot
Proc. BEAMS 83, San Francisco, 12-14 Sept. 1983					
777	CPBICF ion diode		self-B insul	beam character	
W Ger	Karlsruhe		Kernforsch. Karlsruhe		Zieher
Proc. BEAMS 83, San Francisco, 12-14 Sept. 1983					
778	CPBICF ion diode		gas filled	pseudo spark	
W Ger	Erlangen		Univ. Erlangen		Schultheiss
Proc. BEAMS 83, San Francisco, 12-14 Sept. 1983					
779	CPBICF z-pinch		gas embedded	x-ray init.	
France	Palaiseau		Ecole Poly.		Doucet
Proc. BEAMS 83, San Francisco, 12-14 Sept. 1983					
780	CPBICF annular z-pinch		plasma puff	x-ray source	
France	Palaiseau		Ecole Poly.		Doucet
ESN 38-4 and Proc. BEAMS 83, San Francisco, 12-14 Sept. 1983 also ESN 37-3					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
781	CPBICF	REB	generator	compact 100 kV	
Israel	Haifa		Ministry of Defense		Goldstein
Proc. BEAMS 83, San Francisco, 12-14 Sept. 1983					
782	CPBICF	radiography	erosion switch	Grec facility	
France	Sevran		CEA Vaujours		Buchet
Proc. BEAMS 83, San Francisco, 12-14 Sept. 1983					
783	CPBICF	wire plasma	x-ray eff.	Sidonix I	
France	Is-sur-Tille		CEA Valduc		Bruno
Proc. BEAMS 83, San Francisco, 12-14 Sept. 1983					
784	PLASMA	REB	rf sustained	current drive	
France	Fontenay-aux-Roses		Cen. d'Etudes Nucleaires		Fidone
Proc. BEAMS 83, San Francisco, 12-14 Sept. 1983					
785	CPBICF	REB Star Wars	plasma channel	numerics	
France	Grenoble		Univ. Grenoble I		Dolique
ESN 38-6 and Proc. BEAMS 83, San Francisco, 12-14 Sept. 1983					
786	CPBICF	REB Star Wars	plasma channel	experiment	
France	Is-sur-Tille		CEA Valduc		Bailly-Salins
ESN 38-6 and Proc. BEAMS 83, San Francisco, 12-14 Sept. 1983					
787	CPBICF	REB	drift injection	analytics	
E Ger	Berlin		Akad. der Wissenschaften		Hintze
Proc. BEAMS 83, San Francisco, 12-14 Sept. 1983					
788	BMSRAD	HIB	hollow beam trans.	strong focusing	
W Ger	Julich		Kernforsch. Julich		Krejcik
Proc. BEAMS 83, San Francisco, 12-14 Sept. 1983					
789	CPBICF	REB	collective accel.	diagnostic	
Israel	Rehovot		Weizmann Inst. of Sci.		Markovits
ESN 37-12 and Proc. BEAMS 83, San Francisco, 12-14 Sept. 1983 and ESN 37-12					
790	CPBICF	REB	beam quality	Thomson scat.	
France	Palaiseau		Ecole Poly.		Vallier
Proc. BEAMS 83, San Francisco, 12-14 Sept. 1983					

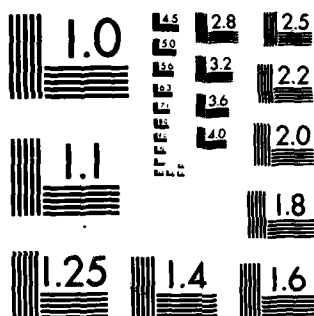
<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
791	CPBICF FEL		microwave	REB quality	
France	Palaiseau		Ecole Poly.		Buzzi
Proc. BEAMS 83, San Francisco, 12-14 Sept. 1983					
792	CPBICF REB		microwave	rippled field	
Israel	Haifa		Ministry of Defense		Shraga
Proc. BEAMS 83, San Francisco, 12-14 Sept. 1983					
793	BMSRAD accelerators		types	review	
UK	Didcot		Rutherford Appleton Lab.		Lawson
ESN 37-1 & Proc. the Challenge of Ultra-High Energies, Oxford, Sept. 27-30, 1982					
794	BMSRAD accelerators		conventional	limits	
W Ger	Hamburg		DESY		Voss
Proc. the Challenge of Ultra-High Energies, Oxford, Sept. 27-30, 1982					
795	BMSRAD electron ring		ion accelerator	review	
W Ger	Garching		MPI fur Plasmaphysik		Schumacher
ESN 37-1 & Proc. The Challenge of Ultra-High Energies, Oxford, Sept. 27-30, 1982					
796	BMSRAD wakefield accel.		dynamics	simulation	
W Ger	Hamburg		DESY		Voss
ESN 37-1 & Proc. the Challenge of Ultra-High Energies, Oxford, Sept. 27-30, 1982					
797	BMSRAD accel. processes		cosmic rays	astrophysics	
UK	Cambridge		Inst. of Astronomy		Rees
Proc. the Challenge of Ultra-High Energies, Oxford, Sept. 27-30, 1982					
798	BMSRAD future accel.		requirements	new ideas	
Switz	Geneva		CERN		Adams
Proc. the Challenge of Ultra-High Energies, Oxford, Sept. 27-30, 1982					
799	LASERS VUV		res. enhanced	tunable	
France	Palaiseau		Ecole Poly.		Lukasik
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
800	LASERS VUV		tunable	Stim. Raman scat.	
W Ger	Garching		MPI fur Quantenoptik		Proch
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
801	BMSRAD	deuterium lamp	VUV radiation	MgF1 window	
UK	Teddington		Nat. Phys. Lab.		Nettleton
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
802	BMSRAD	VUV plasma source	laser excited	microwave excited	
France	Orsay		Univ. Paris XI		Girard
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
803	BMSRAD	VUV standard	laser plasma	BESSY comparison	
W Ger	Berlin		Phys-Tech Bundesanstalt		Kuhne
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
804	DIAGNO	VUV focusing	deformed grating	grazing inc.	
Sweden	Uppsala		Uppsala Univ.		Pettersson
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
805	DIAGNO	XUV grating	overlap contam.	EM theory	
France	Marseille		Faculte St. Jerome		Neviere
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
806	DIAGNO	VUV optics	contam. films	topography	
Sweden	Uppsala		Uppsala Univ.		Mattsson
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
807	DIAGNO	XUV spectrometer	multichannel	time resolved	
Israel	Jerusalem		Hebrew Univ.		Finkelthal
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
808	DIAGNO	XUV monochrometer	synchrotron rad.	characteristics	
W Ger	Berlin		BESSY GmbH		Peterson
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
809	DIAGNO	XUV	wavelength deter	crystal property	
Israel	Jerusalem		Hebrew Univ.		Fraenkel
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
810	BMSRAD	synchrotron rad.	photo electrons	source character	
France	Orsay		Univ. Paris Sud		Ziesel
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					

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22

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<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
811	ATOMIC	transition rates	atoms and ions	computer code	
UK	Oxford		Oxford Univ.		Grant
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
812	ATOMIC	light ions	absorption spec	VUV	
Italy	Padua		Univ. di Padova		Jannitti
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
813	CPBICF	VUV emission	Al plasma	calculated	
France	Orsay		Univ. Paris Sud		Lamoureux
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
814	CPBICF	laser plasma	Cu-like lines	rare earths	
Israel	Yavne		Soreq Nuclear Res. Cen.		Spector
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
815	ATOMIC	XUV	photoemission	atomic iodine	
France	Orsay		Univ. Paris Sud		Ben Amar
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
816	ATOMIC	line broadening	Thomas-Fermi	finite temp.	
Israel	Jerusalem		Hebrew Univ.		Shalitin
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
817	CPBICF	line broadening	dense plasma	Thomas-Fermi	
Israel	Jerusalem		Hebrew Univ.		Stein
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
818	ATOMIC	electron states	polyatomic mol.	experiment	
Yugos	Zagreb		Inst. Rudjer Boskovic		Doering
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
819	ATOMIC	photoemission	rare gas solid	excitons	
W Ger	Hamburg		Univ. of Hamburg		Bernstorff
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
820	ATOMIC	photoionization	Xenon excimers	VUV synch.	
Israel	Jerusalem		Hebrew Univ.		Reininger
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
821	ATOMIC excitons		argon solid	VUV synch.	
W Ger	Hamburg		Univ. of Hamburg		Bernstorff
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
822	ATOMIC photoconduction		argon solid	VUV synch.	
Israel	Jerusalem		Hebrew Univ.		Reininger
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
823	ATOMIC resonant emission	metals		theory	
Sweden	Lund		Univ. of Lund		Almblad
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
824	LASERS VUV		tunable	upconversion	
W Ger	Bielefeld		Univ. Bielefeld		Hilbig
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
825	ATOMIC spectroscopy		high resolution	magnetic field	
UK	London		Imperial College		Connerade
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
826	ATOMIC molec. states		highly excited	structure	
France	Orsay		Univ. Paris SUD		Jungen
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
827	PLASMA diagnostics		x-ray & VUV	tokamaks	
Israel	Jerusalem		Hebrew Univ.		Finkenthal
Proc. 7th Intl. Conf. VUV Radiation Physics, Jerusalem, Aug. 8-12, 1983					
828	LASERS disc system		development	commissioning	
UK	Didcot		Rutherford Appleton Lab.		Brett
RAL Laser Committee Annual Rep. RL-83-043, 1983					
829	LASERS beam diagnostic		energy monitor	profile imaging	
UK	Didcot		Rutherford Appleton Lab.		Brasher
RAL Laser Committee Annual Rep. RL-83-043, 1983					
830	LASERS control		data acquisition	energy monitor	
UK	Didcot		Rutherford Appleton Lab.		Forster
RAL Laser Committee Annual Rep. RL-83-043, 1983					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
831	CPBICF	multi-beam	illumination	uniformity	
UK	Didcot		Rutherford Appleton Lab.		Nicholas
RAL Laser Committee Annual Rep. RL-83-043, 1983					
832	CPBICF	target production	microballoon	laser etched	
UK	Didcot		Rutherford Appleton Lab.		Brown
RAL Laser Committee Annual Rep. RL-83-043, 1983					
833	CPBICF	framing camera	x-ray	electronics	
UK	Essex		Univ. of Essex		Hall
RAL Laser Committee Annual Rep. RL-83-043, 1983					
834	CPBICF	x-ray intensifier	gated	50 ps resolution	
UK	London		Imperial College		Kilkenny
ESN 38-2 and RAL Laser Committee Annual Rep. RL-83-043, 1983					
835	LASERS	KrF	REB excited	Sprite	
UK	Didcot		Rutherford Appleton Lab.		Shaw
RAL Laser Committee Annual Rep. RL-83-043, 1983					
836	LASERS	pulse compression	Raman amplifier	multiplexing	
UK	Didcot		Rutherford Appleton Lab.		Edwards
RAL Laser Committee Annual Rep. RL-83-043, 1983					
837	LASERS	KrF	long pulse	pulse form line	
UK	Oxford		Oxford Lasers Ltd.		Kearsley
RAL Laser Committee Annual Rep. RL-83-043, 1983					
838	LASERS	phase conjugate	Brillouin mirror	KrF	
UK	Didcot		Rutherford Appleton Lab.		Gower
RAL Laser Committee annual Rep. RL-83-043, 1983					
839	LASERS	compression	stim Brill scat	phase conjugate	
UK	London		Imperial College		Damzen
RAL Laser Committee Annual Rep. RL-83-043, 1983					
840	LASERS	UV	facility	320-980 nm	
UK	Didcot		Rutherford Appleton Lab.		Gower
RAL Laser Committee Annual Rep. RL-83-043, 1983					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
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<u>Ref and Notes</u>					
841	CHEMAT	lithography	excimer laser	ArF	
UK	Oxford		Oxford Univ.		Webb
RAL Laser Committee Annual Rep. RL-83-043, 1983					
842	LASERS	excimer	saturable absorb	anthracene	
UK	Belfast		Queen's Univ.		Morrow
RAL Laser Committee Annual Rep. RL-83-043, 1983					
843	CPBICF	laser plasma	harmonic emission	526 nm pump	
UK	Essex		Univ. of Essex		McGoldrick
RAL Laser Committee Annual Rep. RL-83-043, 1983					
844	CPBICF	laser plasma	filamentation	backscatter	
UK	Oxford		Oxford Univ.		Willi
RAL Laser Committee Annual Rep. RL-83-043, 1983					
845	CPBICF	spherical target	fast electrons	1.05 micron	
UK	London		Imperial College		Bradley
RAL Laser Committee Annual Rep. RL-83-043, 1983					
846	CPBICF	polymer targets	x-ray spectra	compression expt	
UK	London		Imperial College		Kilkenney
ESN 36-8 and RAL Laser Committee Annual Rep. RL-83-043, 1983					
847	CPBICF	disc target	thermal smoothing	x-ray backlight	
UK	Didcot		Rutherford Appleton Lab.		Evans
RAL Laser Committee Annual Rep. RL-83-043, 1983					
848	CPBICF	plasma stopping	alpha particles	dt microballoon	
UK	Didcot		Rutherford Appleton Lab.		Toner
ESN 36-8 and RAL Laser Committee Annual Rep. RL-83-043, 1983					
849	CPBICF	heat flow	high gradient	laser scattering	
UK	London		Imperial College		Dangor
RAL Laser Committee Annual Rep. RL-83-043, 1983					
850	CPBICF	implosions	x-radiography	1.06 micron	
UK	Belfast		Queen's Univ.		Lewis
ESN 36-8 and RAL Laser Committee Annual Rep. RL-83-043, 1983					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
851	CPBICF	ablative accel.	stability	rippled foils	
UK	London		Imperial College		Cole
RAL Laser Committee Annual Rep. RL-83-043, 1983					
852	CPBICF	implosions	analysis	0.53 micron	
UK	London		Imperial College		MacGowan
RAL Laser Committee Annual Rep. RL-83-043, 1983					
853	LASERS	x-ray	carbon recomb.	gain measure	
UK	Hull		Univ. of Hull		Pert
RAL Laser Committee Annual Rep. RL-83-043, 1983					
854	CPBICF	dielec satellite	implosions	Si spectra	
Ireland	Dublin		Trinity College		Lunney
RAL Laser Committee Annual Rep. RL-83-043, 1983					
855	CPBICF	dielec satellite	Si He-like	density dep.	
UK	London		Imperial College		Kilkenny
RAL Laser Committee Annual Rep. RL-83-043, 1983					
856	CPBICF	planar targets	Stark broadening	SiO2 & CH	
UK	London		Imperial College		Lee
RAL Laser Committee Annual Rep. RL-83-043, 1983					
857	CPBICF	target x-rays	EXAFS spectra	of Al	
UK	Didcot		Rutherford Appleton Lab.		Eason
RAL Laser Committee Annual Rep. RL-83-043, 1983					
858	COMPUT	fluid code	Lagrang. rezone	flux correction	
UK	Hull		Univ. of Hull		Pert
RAL Laser Committee Annual Rep. RL-83-043, 1983					
859	CPBICF	Rayleigh Taylor	flat target	numerics	
UK	Didcot		Rutherford Appleton Lab.		Evans
RAL Laser Committee Annual Rep. RL-83-043, 1983					
860	CPBICF	thermal smoothing	heat flux limit	analytics	
UK	Didcot		Rutherford Appleton Lab.		Evans
RAL Laser Committee Annual Rep. RL-83-043, 1983					

<u>Rec ID</u>	<u>Topic</u>	<u>KN1</u>	<u>KN2</u>	<u>KN3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>	<u>Institute</u>			
<u>Ref and Notes</u>					
861	CPBICF ion disposition		ablation plasma	analytics	
UK	Didcot		Rutherford Appleton Lab.		Evans
RAL Laser Committee Annual Rep. RL-83-043, 1983					
862	CPBICF preheat		x-ray	effect on implo.	
UK	Didcot		Rutherford Appleton Lab.		Key
RAL Laser Committee Annual Rep. RL-83-043, 1983					
863	CPBICF Raman scattering		es particle code	kinetic theory	
UK	Bangor		Univ. of Wales		Boyd
RAL Laser Committee Annual Rep. RL-83-043, 1983					
864	CPBICF heat transport		laser plasma	moment eqns.	
UK	St. Andrews		Univ. of St. Andrews		Sanderson
RAL Laser Committee Annual Rep. RL-83-043, 1983					
865	CPBICF heat transport		Lorentz plasma	nonlinear	
UK	London		Imperial College		Haines
RAL Laser Committee Annual Rep. RL-83-043, 1983					
866	CPBICF heat transport		Fokker-Plank	planar ablation	
UK	Didcot		Rutherford Appleton Lab.		Bell
RAL Laser Committee Annual Rep. RL-83-043, 1983					
867	CPBICF heat flow		instabilities	laser plasma	
UK	London		Imperial College		Epperlein
RAL Laser Committee Annual Rep. RL-83-043, 1983					
868	CPBICF rad transport		Planckian	LTE	
UK	Glasgow		Univ. of Glasgow		White
RAL Laser Committee Annual Rep. RL-83-043, 1983					
869	CPBICF opacity		LTE	calculations	
UK	St. Andrews		Univ. of St. Andrews		Carson
RAL Laser Committee Annual Rep. RL-83-043, 1983					
870	BASICS chaos		reverse bifur.	RCL circuit	
Portug	Lisbon		CAUL-CFMC		Cascais
ONRL Tech. Rep. R-6-84 and Phys. Lett. 93A, no.5, p213 (1983)					

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<u>Ref and Notes</u>					
871	BASICS	bifurcation	frequency div.	Schottky circuit	
UK	Oxford		Clarendon Lab.		Jefferies
ONRL Tech. Rep. R-6-84 and Phys. Lett. 99A, no.8, p356 (1983)					
872	BASICS	chaos	noise	bistable circuit	
Italy	Florence		Ist. Nazionale di Ottica		Areccchi
ONRL Tech. Rep. R-6-84 and Phys. Rev. Lett. 49, no.2, p94 (1982)					
873	BASICS	chaos	Joshephson junc.	circuit analog	
W Ger	Tubingen		Univ. Tubingen		Seifert
ONRL Tech. Rep. R-6-84 and Phys. Lett. 101A, no.4, p230 (1984)					
874	BASICS	chaos	forced pendulum	expt. & numerics	
E Ger	Griefswald		E.M. Arndt Univ.		Koch
Phys. Lett. 96A, no.5, p219 (1983)					
875	BASICS	chaos	RCL circuit	general study	
UK	Oxford		Clarendon Lab.		Robinson
ONRL Tech. Rep. R-6-84					
876	HYDROD	chaos	Taylor-Couette	rotating flow	
W Ger	Kiel		Univ. of Kiel		Mullin
Phys. Lett. 96A, no.5, p236 (1983)					
877	HYDROD	chaos	elechydro instab.	ion + dielec liq	
France	Grenoble		Cen. Nat. de la Recherche Sci.		Malraison
Phys. Rev. Lett. 49, no.10, p723, (1982)					
878	HYDROD	bifurcation	Rayleigh-Benard	large cells	
Israel	Tel Aviv		Tel Aviv Univ.		Sivashinsky
Phys. Lett. 95A, no.3-4, p152 (1983)					
879	HYDROD	intermittency	Rayleigh-Benard	confined geo.	
France	Gif-sur-Yvette		CEN Saclay		Dubois
Phys. Rev. Lett. 51, no.16, p1446 (1983)					
880	BASICS	chaos	chem. oscil.	stirred & forced	
Czech	Prague		Prague Inst. of Chem. Tech.		Dolnik
Phys. Lett. 100A, no.6, p316 (1984)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
881	BASICS	chem reactions	nonlinear	spatial structure	
Israel	Jerusalem		Hebrew Univ.		Avnir
Nature 307, p717, 23 Feb. 84					
882	BASICS	chemical waves	nonlin diffusion	3-D	
UK	Glasgow		Glasgow College of Tech.		Welsh
Nature 304, p611, 18 Aug. 83					
883	BASICS	chaos	Hamiltonian sys.	quartic potential	
UK	London		Queen Mary College		Carnegie
J. Phys. A17, p801 (1984)					
884	LASERS	bifurcation	optical reson.	CO2 pumped	
UK	Edinburgh		Heriot Watt Univ.		Harrison
Phys. Rev. Lett. 51, no.7, p562 (1983)					
885	HYDROD	chaos	thermosolutal	convection model	
UK	Cambridge		Univ. of Cambridge		Knobloch
Nature 303, p663, 23 Jun. 83					
886	BASICS	self avoid walks	renorm group	critical prop.	
UK	Oxford		Oxford Univ.		Queiroz
J. Phys. A16, pL617 (1983)					
887	BASICS	self avoid walks	fractals	Monte Carlo	
France	Grenoble		Cen. for Res. at Very Low Temp.		d'Auriac
J. Phys. A17, pL15 (1984)					
888	BASICS	self avoid walks	statistics	Monte Carlo	
France	Grenoble		Cen. for Res. at Very Low Temp.		Rammal
J. Phys. A17, pL9 (1984)					
889	BASICS	clusters	growth & coalesc	theory & sim	
France	Gif-sur-Yvette		CEN Saclay		Herrmann
J. Phys. A16, pL611 (1983)					
890	BASICS	automata	quantum mech.	self measure	
Israel	Tel Aviv		Tel Aviv Univ.		Albert
Phys. Lett. 98A, no.5-6, p249 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
891	BASICS	percolation	fractal lattice	renorm group	
Israel	Ramat-Gan		Bar-Ilan Univ.		Ben-Avraham
Phys. Rev. Lett. 51, no.26, p2347 (1983)					
892	BASICS	phase trans.	fractals	Ising models	
Israel	Tel Aviv		Tel Aviv Univ.		Gefen
J. Phys. A17, p435 (1984)					
893	WETHER	fractal	scattering	reflected light	
UK	Great Malvern		Royal Sig. & Radar Estab.		Jakeman
Nature 307, p110, 12 Jan. 84					
894	BASICS	heavy nuclei	synthesis	stability limit	
W Ger	Darmstadt		Heavy Ion Res. Estab.		Armsbruster
European Phys. Soc. Bull. p4 1983					
895	CPBICF	switching	trig. discharge	optical diag.	
W Ger	Darmstadt		Tech. Hochschule		Pfeiffer
EOARD Proposal 83-138 (1983)					
896	PLASMA	scrape-off	neutral heated	Asdex	
W Ger	Garching		MPI fur Plasmaphysik		Shimonura
Nucl. Fusion 23, no.7, p869 (1983)					
897	PLASMA	disruption	anom. resistance	mag. turbulence	
W Ger	Garching		MPI fur Plasmaphysik		Biskamp
Phys. Lett. 96A, no.1, p25 (1983)					
898	PLASMA	drift waves	nonlinear	KdV eqn.	
W Ger	Garching		MPI fur Plasmaphysik		Tasso
Phys. Lett. 96A, no.1, p33 (1983)					
899	PLASMA	transport	ohmic tokamak	scaling laws	
W Ger	Garching		MPI fur Plasmaphysik		Gruber
Nucl. Fusion 22, no.10, p1349 (1982)					
900	LASERS	He Ar	HIB pumped	100 MeV Sulpher	
W Ger	Garching		Tech. Univ. der Munchen		Ulrich
Appl. Phys. Lett. 42, no.9, p782 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
901	PLASMA	ion heating	lower hybrid	quasi linear	
W Ger	Garching		MPI fur Plasmaphysik		Brambilla
Nucl. Fusion 23, no.4, p541 (1983)					
902	CPBICF	plasma focus	electron beam	mm waves	
W Ger	Darmstadt		Tech. Hochschule		Schmitt
Phys. Lett. 95A, no.5, p239 (1983)					
903	ATOMIC	line broadening	nonlinear	Poisson stat.	
W Ger	Heidelberg		Univ. of Heidelberg		Hermann
J. Phys. B16, p1323 (1983)					
904	HYDROD	shear layers	curved	2-eqn turbulence	
W Ger	Karlsruhe		Univ. of Karlsruhe		Rodi
Phys. Fluids 26, no.6, p1422 (1983)					
905	PLASMA	disruption	tearing mode	evolution	
W Ger	Garching		MPI fur Plasmaphysik		Smeulders
Nucl. Fusion 23, no.4, p529 (1983)					
906	CPBICF	HIB	pellet	caluclations	
W Ger	Karlsruhe		Kernforsch. Karlsruhe		Tahir
Nucl. Fusion 23, no.7, p887 (1983)					
907	CPBICF	laser plasma	mode conversion	inhomo analysis	
W Ger	Garching		MPI fur Quantenoptik		Kull
Phys. Fluids 26, no.7, p1881 (1983)					
908	ATOMIC	line broadening	Stark effect	rf discharge	
W Ger	Bochum		Ruhr Univ.		Himmel
J. Phys. B16, p4117 (1983)					
909	COMPUT	rad. hydro	adaptive mesh	shocks	
W Ger	Garching		MPI fur Physik und Astrophys.		Winkler
ESN 38-5					
910	PLASMA	excited state	decay rates	deut. plasma	
W Ger	Bochum		Ruhr Univ.		Himmel
J. Quant. Spec. Radiat. Transfer 30, no.4, p357 (1983)					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
911	WETHER	solar	magnetoconvection	review	
UK	Cambridge		Univ. of Cambridge		Proctor
Rep. Prog. Phys. 45, p1317 (1982)					
912	WETHER	solar oscillation	active region	connection	
W Ger	Freiburg		Kiepenheuer Inst.		Durrant
Nature 301, p589, 17 Feb 83					
913	BASICS	neutron scatter	uranium	n interferometer	
Italy	Ispira		CEC Joint Res. Cen.		Boeuf
Phys. Rev. Lett. p1086, 11 Oct 82					
914	BASICS	element 109	HI collisions	Fe + Bi	
W Ger	Darmstadt		Heavy Ion Res. Estab.		Armsbruster
New Scientist, 14 Oct 82					
915	CPBICF	ion range	uranium	various solids	
W Ger	Darmstadt		Heavy Ion Res. Estab.		Laichter
Phys. Rev. A26, no.4, p1915 (1982)					
916	DIAGNO	nuclear probe	laser light	unstable nuclei	
UK	Warrington		Daresbury Lab.		Eastham
New Scientist, p789, 24 Mar 83					
917	BASICS	solitons	heavy ion reac.	momentum trans.	
W Ger	Marburg		Univ. of Marburg		Raha
Phys. Rev. Lett. 50, no.6, p407 (1983)					
918	BASICS	nuclear splitting	high E protons	break point	
W Ger	Heidelberg		Univ. of Heidelberg		Bohrmann
Phys. Lett. 120B, no.1-3, p59 (1983)					
919	EMSRAD	FEL	IR tunable	linac	
UK	Warrington		Daresbury Lab.		Poole
ESN 37-10/11 and J. de Physique C1, no.2, pC1 (1983)					
920	CPBICF	FEL	wiggler free	orbit eqns.	
Israel	Jerusalem		Hebrew Univ.		Fruchtman
J. Appl. Phys. 54, no.8, p4289 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
921	BMSRAD FEL		IR tunable	microtron	
Italy Frascati			Centro Ricerche Energia-ENEA		Dattoli
IEEE Trans. Nucl. Sci. NS-28, no.3, p3133 (1981)					
922	BMSRAD FEL		undulator	optimization	
France Orsay			Univ. Paris Sud		Ortega
J. Appl. Phys. 54, no.9, p4776 (1983)					
923	BMSRAD FEL		optical klystron	gain studies	
France Orsay			Univ. Paris Sud		Elleaume
Proc. 1982 Bendor FEL Conf.					
924	BMSRAD FEL		visible	storage ring	
France Orsay			Univ. Paris Sud		Billardon
ESN 38-4 and Phys. Rev. Lett. 51, 1652 (1983)					
925	BMSRAD FEL		multilayer mirror	degradation	
France Orsay			Univ. Paris Sud		Elleaume
ESN 38-4					
926	BMSRAD FEL		bunch lengthening	anomolies	
France Orsay			Univ. Paris Sud		Velghe
IEEE J. Quant Elec. QE-19, no.3, p365 (1983)					
927	BMSRAD FEL		time structure	nonlin theory	
France Orsay			Univ. Paris Sud		Elleaume
ESN 38-4 and submitted to J. de Physique, 1983					
928	BMSRAD FEL		optical klystron	gain & spread expt	
France Orsay			Univ. Paris Sud		Billardon
ESN 38-4 and submitted to Appl. Phys. B, 1983					
929	CPBICF FEL		guide field	dispersion rel.	
Israel Jerusalem			Hebrew Univ.		Friedland
Phys. Rev. A25, no.5, p2693 (1982)					
930	CPBICF FEL		axial field	nonlin theory	
Israel Jerusalem			Hebrew Univ.		Friedland
Phys. Rev. A26, no.5, p2778 (1982)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
931	ENERGY	pollution	magnetic part.	new measure	
UK	Liverpool		Univ. of Liverpool		Oldfield
New Scientist, p26, 29 Mar 84					
932	WETHER	geomagnetism	reversals	15 Myr period	
France	Paris		Univ. Paris VI		Mazaud
Nature 304, p328, 28 Jul 83					
933	BASICS	electron	stability	new limit	
Italy	Milan		Univ. di Milano		Bellotti
Phys. Lett. 124B, no.5, p435 (1983)					
934	WETHER	solar core	rotation	sun spots	
Norway	Oslo		Univ. of Oslo		Nyborg
Nature 302, p808, 28 Apr 83					
935	WETHER	baroclinic eddy	Red Spot. anal.	convection	
UK	Bracknell		Geophys. Fluid Dynam. Lab.		Read
Nature 308, p45, 1 Mar 84					
936	WETHER	solar	disturbances	ground observ	
UK	Cambridge		Cavendish Lab.		Gapper
Nature 296, p633, 15 Apr 82					
937	WETHER	ionosphere	rocket hole	chem reactions	
UK	Cambridge		Brit. Antarctic Survey		Rycroft
Nature 297, p537, 17 Jun 82					
938	HYDROD	viscous flow	instability	down slope	
UK	Cambridge		Univ. of Cambridge		Huppert
Nature 300, p427, 2 Dec 82					
939	ATOMIC	trace element	analysis	synch. rad.	
UK	Warwick		Univ. of Warwick		Davies
SRS Bull., Daresbury Lab. June 1982					
940	SOLIDS	metal layers	ultrathin	photoelec. spec.	
UK	Warrington		Daresbury Lab.		Padmore
SRS Bull., Daresbury Lab. June 1982					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
941	BMSRAD electron beam		positioning	synch. rad.	
UK	Warrington		Daresbury Lab.		Greaves
SRS Bull., Daresbury Lab., June 1982					
942	SOLIDS SAW		imaging	synch. rad.	
UK	Durham		Durham Univ.		Tanner
SRS Bull., Daresbury Lab., Dec. 1982. SAW = surface acoustic wave					
943	BMSRAD synch. rad.		undulator	development	
UK	Warrington		Daresbury Lab.		Poole
ESN 36-12 and SRS Bull., Daresbury Lab., Dec. 1982					
944	BMSRAD synch. rad.		wiggler	measurements	
UK	Warrington		Daresbury Lab.		Greaves
ESN 36-12 and SRS Bull., Daresbury Lab., Dec. 1982					
945	SOLIDS EXAFS		synch. rad.	data base	
UK	Warrington		Daresbury Lab.		Pantos
ESN 36-12 and SRS Bull., Daresbury Lab., Dec. 1982					
946	BMSRAD accelerator		laser beat wave	modeling	
UK	Didcot		Rutherford Appleton Lab.		Lawson
RAL Rep. RL-83-057, June 1983					
947	BMSRAD accelerators		nuclear physics	review	
W Ger	Darmstadt		Heavy Ion Res. Estab.		Putlitz
Proc. Sym. Intl. Facilities for Phys. Res., Copenhagen 21-23 Mar. 1983					
948	BMSRAD accelerators		elem. particles	review	
Switz	Geneva		CERN		Schopper
Proc. Sym. Intl. Facilities for Phys. Res., Copenhagen, 21-23 Mar. 1983					
949	PLASMA fusion research		JET	review	
UK	Abingdon		Culham Lab.		Wuster
Proc. Sym. Intl. Facilities for Phys. Res., Copenhagen 21-23 Mar. 1983					
950	BMSRAD neutron beams		facilities	review	
UK	Oxford		Clarendon Lab.		Mitchell
Proc. Sym. Intl. Facilities for Phys. Res., Copenhagen 21-23 Mar. 1983					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
951	BMSRAD synch. rad.		facilities	review	
Denmrk	Copenhagen		Univ. of Copenhagen		Buras
Proc. Sym. Intl. Facilities for Phys. Res., Copenhagen 21-23 Mar. 1983					
952	PLASMA reactors		advanced fuels	feasibility	
Austri	Graz		Tech. Univ. Graz		Niederl
Proc. 3rd Intl. Conf. on Emerging Nucl. Sys., Helsinki 6-9 June, 1983					
953	PLASMA reactors		aneutronic	requirements	
Austri	Graz		Tech. Univ. Graz		Heindler
Proc. 3rd Intl. Conf. on Emerging Nucl. Sys., Helsinki 6-9 June, 1983					
954	PLASMA blankets		neutronic code	KFA expt. compar	
Poland	Krakow		Inst. of Phys. and Nucl. Tech		Morstin
Proc. 3rd Intl. Conf. on Emerging Nucl. Sys., Helsinki 6-9 June 1983					
955	PLASMA fission-fusion		breeder	economics	
Israel	Beer-Sheva		Nuclear Res. Cen. Negev		Greenspan
Proc. 3rd Intl. Conf. on Emerging Nucl. Sys., Helsinki 6-9 June, 1983					
956	PLASMA fission-fusion		D-cycle tokamak	satellites	
Austri	Innsbruck		Univ. Innsbruck		Schoepf
Proc. 3rd Intl. Conf. on Emerging Nucl. Sys., Helsinki 6-9 June, 1983					
957	PLASMA fission-fusion		blanket	experiment	
Switz	Lausanne		Ecole Poly. Federale		Haldy
Proc. 3rd Intl. Conf. on Emerging Nucl. Sys., Helsinki 6-9 June, 1983					
958	PLASMA fission-fusion		blanket	time dependence	
Austri	Innsbruck		Univ. Innsbruck		Schoepf
Proc. 3rd Intl. Conf. on Emerging Nucl. Sys., Helsinki 6-9 June, 1983					
959	CPBICF plasma focus		neutrons	ion emission	
W Ger	Stuttgart		Univ. Stuttgart		Schmidt
Proc. 3rd Intl. Conf. on Emerging Nucl. Sys., Helsinki 6-9 June, 1983					
960	CPBICF plasma focus		deut. emission	energy & angle	
Poland	Warsaw		Inst. Plasma Phys. & Laser Fusion		Czekaj
Proc. 3rd Intl. Conf. on Emerging Nucl. Sys., Helsinki 6-9 June, 1983					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
961	CPBICF pellet gain		superthermals	numerics	
Switz	Lausanne		Ecole Poly. Federale		Tran
Proc. 3rd Intl. Conf. on Emerging Nucl. Sys., Helsinki 6-9 June, 1983					
962	CPBICF particle beam		transport	analytics	
Yugos	Maribor		Univ. of Maribor		Paulin
Proc. 3rd Intl. Conf. on Emerging Nucl. Sys., Helsinki 6-9 June, 1983					
963	PLASMA muon catalyzed		hyperfine trans.	liquid HD	
Switz	Villigen		Swiss Inst. for Nucl. Phys.		Petitjean
ESN 38-1 & Proc. 3rd Intl. Conf. on Emerging Nucl. Sys., Helsinki 6-9 June, 1983					
964	PLASMA muon catalyzed		hyperfine trans.	experiments	
Austri	Vienna		Austrian Acad. of Sci.		Breunlich
ESN 38-1 & Proc. 3rd Intl. Conf. on Emerging Nucl. Sys., Helsinki 6-9 June, 1983					
965	CPBICF muon catalyzed		polarized	ICF feasibility	
Switz	Wuerenlingen		Swiss Fed. Inst. for Reactor Res.		Seifritz
ESN 38-1 & Proc. 3rd Intl. Conf. on Emerging Nucl. Sys., Helsinki 6-9 June, 1983					
966	PLASMA muon catalyzed		approaches	evaluation	
Switz	Lausanne		Ecole Poly. Federale		Kurar
ESN 38-1 & Proc. 3rd Intl. Conf. on Emerging Nucl. Sys., Helsinki 6-9 June, 1983					
967	CPBICF laser interaction		GRECO	review	
France	Palaiseau		Ecole Poly.		Fabre
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
968	CPBICF implosion		pellet coating	effect of	
France	Villeneuve-St-Georges		CEA Limeil		Bernard
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
969	CPBICF implosion		plastic shells	x-radiography	
UK	Belfast		Queen's Univ.		Lewis
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
970	CPBICF implosions		emission diagno	hot cores	
UK	London		Imperial College		MacGowan
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
971	CPBICF planar target	ablative	wavelength dep		
France	Palaiseau	Ecole Poly.		Faral	
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
972	CPBICF z-pinch	spectroscopy	non-Debye		
UK	London	Imperial College		Baldwin	
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
973	LASERS x-ray	laser plasma	photoexcitation		
Ireland	Dublin	Trinity College		Lunney	
ESN 38-2 & 16th Euro. Conf. on Laser Interac. Matter, London 26-30 Sept. 83					
974	CPBICF laser target	magnetic field	Faraday rotation		
France	Toulouse	Univ. Paul Sabatier		Adrian	
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
975	CPBICF heat flow	inverse brems.	Fokker-Planck		
France	Palaiseau	Ecole Poly.		Virmont	
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
976	CPBICF Raman scattering	ion fluctuations	WKB model		
Finland	Helsinki	Tech. Res. Cen. of Finland		Heikkinen	
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London, 26-30 Sept. 1983					
977	CPBICF critical density	spectral diag.	non LTE		
France	Orsay	Univ. Paris Sud		Lamoureaux	
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
978	CPBICF res. absorption	steep gradient	capacitor model		
France	Palaiseau	Ecole Poly.		Colunga	
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
979	CPBICF He plasma	laser heated	density profiles		
Italy	Pisa	Ist. di Fisica Atom. e Molec.		Giulietti	
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
980	CPBICF carbon plasma	laser heated	ion profiles		
W Ger	Kaiserslautern	Univ. Kaiserslautern		Mann	
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
981	LASERS	x-ray	rad. transport	numerics	
UK	London		Imperial College		Bond
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
982	CPBICF	laser plasma	chaos	wave coupling	
France	Paris		Univ. Pierre et Marie Curie		Bobin
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
983	CPBICF	smoothing	foil targets	vs. wavelength	
UK	London		Imperial College		Rankin
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
984	CPBICF	Al plasma	line broadening	time resolved	
UK	London		Imperial College		Tabatabaei
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
985	BASICS	random walks	chaos	diffusion	
W Ger	Regensburg		Univ. Regensburg		Geisel
European Phys. Soc. Bull. p5, May 1984					
986	CPBICF	heat transport	spherical target	1.02 & .53 micron	
UK	London		Imperial College		Kilkenny
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
987	CPBICF	laser interaction	electron waves	theory	
W Ger	Darmstadt		Tech. Hochschule		Mulser
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
988	CPBICF	multilayer target	plasma spectra	vs. wavelength	
France	Palaiseau		Ecole Poly.		Alaterre
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
989	CPBICF	superthermals	transport	CO2 laser	
France	Palaiseau		Ecole Poly.		Amiranoff
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
990	CPBICF	planar target	harmonic gen.	Nd glass expt	
France	Toulouse		Univ. Paul Sabatier		Adrian
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
991	CPBICF	ablative flow	pellets	theory + expt	
Spain	Madrid		Univ. Poli. de Madrid		Sanmartin
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
992	CPBICF	ion spectra	laser plasma	pulse analysis	
W Ger	Kaiserslautern		Univ. Kaiserslautern		Eicher
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
993	CPBICF	heat transport	steep gradient	numerics	
France	Palaiseau		Ecole Poly.		Luciani
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
994	CPBICF	electron wave	acceleration	laser plasma	
W Ger	Darmstadt		Tech. Hochschule		Schneider
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
995	CPBICF	light scattering	solid target	spectra	
W Ger	Garching		MPI fur Quantenoptik		Banfi
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
996	CPBICF	Brillouin scat.	damping mech.	ruby expt.	
W Ger	Bochum		Ruhr Univ.		Gellert
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
997	CPBICF	harmonic emission	thin foils	1.06 micron expt	
UK	Colchester		Univ. of Essex		Aboites
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
998	CPBICF	laser interaction	hydro + EM	SUNION code	
W Ger	Bochum		Ruhr Univ.		Sack
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
999	CPBICF	electron transport	harmonic gen	foil accel.	
W Ger	Garching		MPI fur Quantenoptik		Withkowski
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1000	CPBICF	spherical target	Rayleigh Taylor	laser etched	
UK	Didcot		Rutherford Appleton Lab.		Cole
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					

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<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
1001	HYDROD	Al foils	shock waves	laser expts	
France	Poitiers		Labo. d'Energetique et Detonique		Cottet
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1002	CPBICF	back reflection	plastic foils	spectra	
France	Palaiseau		Ecole Poly.		Fabre
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1003	CPBICF	laser plasma	x-ray absorption	density measure	
France	Villeneuve-St-Georges		CEA Limeil		Combis
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1004	CPBICF	rad. hydro	high Z	ld code	
Czech	Prague		Univ. of Prague		Drska
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1005	CPBICF	smoothing	layered target	0.35 micron expt	
France	Villeneuve-St-Georges		CEA Limeil		Meyer
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1006	CPBICF	plastic foil	acceleration	1.3 & 0.44 micron	
W Ger	Garching		MPI fur Quantenoptik		Maaswinkel
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1007	CPBICF	nonuniformity	illumination	hydro effects	
UK	Didcot		Rutherford Appleton Lab.		Evans
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1008	CPBICF	planar foil	acceleration	numerics	
W Ger	Garching		MPI fur Quantenoptik		Meyer-ter-Vehn
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1009	CPBICF	planar target	x-ray emission	vs. wavelength	
France	Palaiseau		Ecole Poly.		Alaterre
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1010	CPBICF	K edge	preheat diagno	x-ray spectra	
UK	London		Imperial College		Hares
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>	<u>Institute</u>			
<u>Ref and Notes</u>					
1011	CPBICF high Z targets	x-ray emission	code analysis		
France	Villeneuve-St-Georges	CEA Limeil			Babonneau
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1012	CPBICF planar target	x-ray emission	vs wavelength		
France	Villeneuve-St-Georges	CEA Limeil			Bocher
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1013	CPBICF planar plastic	x-ray emission	PIN diode array		
Switz	Bern	Univ. of Bern			Schwarzenback
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1014	CPBICF laser hydro	review	theory + expt.		
France	Villeneuve-St-Georges	CEA Limeil			Berthier
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1015	CPBICF laser plasma	review	compression		
UK	Didcot	Rutherford Appleton Lab.			Key
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1016	CPBICF microballoon	compression	plasma expansion		
Poland	Warsaw	Inst. Plasma Phys. & Laser Fusion			Denus
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1017	ATOMIC laser plasma	XUV lines	Cu-like		
Israel	Yavne	Soreq Nuclear Res. Cen.			Gazit
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1018	CPBICF thin foil	acceleration	optical measure		
France	Palaiseau	Ecole Poly.			Fabre
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1019	HYDROD laser craters	hypervel. impact	simulation		
France	Poitiers	Labo. d'Energetique et Detonique			Hallouin
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1020	CPBICF high-Z plasma	ion emission	vs. wavelength		
W Ger	Kaiserslautern	Univ. Kaiserslautern			Dinger
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
1021	CPBICF harmonic gen		fine structure	Nd glass expts	
France	Toulouse		Univ. Paul Sabatier		Adrian
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1022	CPBICF multilayer target		spectra	numerics	
France	Palaiseau		Ecole Poly.		Alaterre
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1023	CPBICF radiation		average ion	numerics	
Czech	Prague		Univ. of Prague		Drska
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1024	CPBICF ion beam target		Rayleigh Taylor	beam shaping	
Israel	Beer-Sheva		Nuclear Res. Cen. Negev		Sapir
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1025	CPBICF laser plasma		soft x-ray	refractometry	
France	Palaiseau		Ecole Poly.		Benattar
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1026	CPBICF laser plasma		x-ray emission	perspex model	
Switz	Bern		Univ. of Bern		Ladrach
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1027	CPBICF rad transport		implosions	microballoons	
UK	London		Imperial College		Rose
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1028	CPBICF ablative flow		planar targets	theory + expt	
Spain	Madrid		Univ. Poli. de Madrid		Montanes
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1029	CPBICF harmonic emission		spectral anal	inhomo. model	
Finlnd	Helsinki		Tech. Res. Cen. of Finland		Karhunen
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1030	CPBICF mode conversion		Raman scattering	simulation	
UK	Bangor		Univ. Col. of North Wales		Rankin
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
1031	CPBICF	microballoon	harmonic imaging	x-ray imaging	
UK	London		Imperial College		Wark
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1032	CPBICF	foil targets	shock propagate	Nd glass expts	
UK	London		Imperial College		Rankin
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1033	CPEICF	microballoon	compression diag	alpha tracks	
UK	Bristol		Bristol Univ.		Fews
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1034	CPBICF	laser plasma	diagnostics	HELEN facility	
UK	Aldermaston		Atomic Weapons Res. Estab.		Summers
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1035	CPEICF	x-ray pulses	plasma mirrors	superradiant	
Czech	Prague		Czech Tech. Univ.		Kalal
ESN 38-2 & Proc. 16th Euro. Conf. on Laser Interac. Matter, London 26-30 Sept 83					
1036	CPBICF	foil target	acceleration	0.26 micron expt	
France	Palaiseau		Ecole Poly.		Fabbro
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1037	CPBICF	framing camera	x-ray	sub ns	
UK	Colchester		Univ. of Essex		Finn
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1038	CPBICF	intensifier	x-ray	50 ps	
UK	London		Imperial College		Bradshaw
ESN 38-3 & Proc. 16th Euro. Conf. on Laser Interac. Matter, London 26-30 Sept 83					
1039	CPBICF	high-Z plasma	x-ray spectra	Nd glass expts	
E Ger	Berlin		Cen. Inst. for Optics and Spec.		Brunner
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1040	CPBICF	polymer target	laser etching	UV lithography	
UK	Didcot		Rutherford Appleton Lab.		Rumsby
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					

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<u>Ref and Notes</u>					
1041	ATOMIC EXAFS		laser x-rays	Al K edge	
UK	London		Imperial College		Bradley
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1042	LASERS x-ray		carbon recomb.	gain calc.	
E Ger	Berlin		Cen. Inst. for Optics and Spec.		Brunner
ESN 38-2 & Proc. 16th Euro. Conf. on Laser Interac. Matter, London 26-30 Sept 83					
1043	LASERS x-ray		carbon recomb.	gain measure	
UK	Hull		Univ. of Hull		Pert
ESN 38-2 & Proc. 16th Euro. Conf. on Laser Interac. Matter, London 26-30 Sept 83					
1044	CPBICF LIB		generation	focusing expts	
W Ger	Karlsruhe		Univ. of Karlsruhe		Schmidt
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1045	CPBICF beam-plasma		rad transport	numerics	
Spain	Madrid		Univ. Poli. de Madrid		Minguez
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1046	CPBICF HIB targets		synchrotron expt	numerics	
W Ger	Garching		MPI fur Quantenoptik		Arnold
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1047	CPBICF ion stopping		DT alphas	track detector	
UK	Bristol		Bristol Univ.		Fews
ESN 36-8 & Proc. 16th Euro. Conf. on Laser Interac. Matter, London 26-30 Sept 83					
1048	CPBICF ion stopping		solid & plasma	model	
UK	Birmingham		Univ. of Birmingham		Beynon
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1049	CPBICF laser plasma		experiments	review	
Italy	Frascati		Centro Richerche Energia-ENEA		Caruso
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1050	CPBICF heat flow		ablation plasma	nonlinear	
UK	London		Imperial College		Kho
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					

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<u>Country</u>	<u>City</u>	<u>Institute</u>			
<u>Ref and Notes</u>					
1051	CPBICF heat flow	steep gradient	Fokker Planck		
France	Palaiseau	Ecole Poly.			Luciani
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1052	CPBICF heat flow	nonlocal	hybrid model		
Israel	Beer-Sheva	Nuclear Res. Cen. Negev			Shvarts
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1053	CPBICF heat flow	instabilities	high-z		
UK	London	Imperial College			Epperlein
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1054	CPBICF heat flow	ablation plasma	Fokker Planck		
Uk	Didcot	Rutherford Appleton Lab.			Bell
Proc. 16th Euro. Conf. on Laser Interac. with Matter, London 26-30 Sept. 1983					
1055	CHEMAT laser processing	beam target	review		
W Ger	Darmstadt	Tech. Hochschule			Herziger
ESN 36-11 & Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 82					
1056	WETHER IR laser	atmos. prop.	turbulent expt.		
France	Chatillon	ONERA			Billard
ESN 36-11 & Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 82					
1057	LASERS resonators	high power design	integral eqn.		
W Ger	Kaiserslautern	Univ. Kaiserslautern			Weber
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1058	LASERS DF	spectral output	floures. expts		
W Ger	Stuttgart	DFVLR			Massig
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1059	CHEMAT CO2 processing	heat transfer	anal + expt.		
Italy	Orbassano	Cen. Recherche FIAT			Alessandretti
ESN 36-11 & Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 82					
1060	LASERS pulsed discharge	charging system	high rep rate		
Israel	Beer-Sheva	Nuclear Res. Cen. Negev			Chuchem
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
1061	LASERS	CO2 TE	CW highpower	flow effects	
Italy	Milan		CISE S.p.A.		Fantini
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1062	LASERS	CO2 CW	industrial	10 KW	
UK	Abingdon		Culham Lab.		Kaye
ESN 36-11 & Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept. 82					
1063	LASERS	elec discharge	turbulent flow	stochastic model	
Israel	Beer-Sheva		Ben Gurion Univ. Negev		Khait
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1064	CHEMAT	laser cutting	oxygen assisted	steel sheet	
Italy	Naples		Univ. di Napoli		Sergi
ESN 36-11 & Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 82					
1065	CHEMAT	laser cutting	inert gas assist	steel sheet	
Italy	Naples		Univ. di Napoli		Memola
ESN 36-11 & Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 82					
1066	LASERS	oxy-iodine	cw chemical	compact	
Israel	Beer-Sheva		Ben Gurion Univ. Negev		Rosenwaks
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1067	LASERS	supersonic HF	high rep rate	performance	
Israel	Beer-Sheva		Nuclear Res. Cen. Negev		Chuchem
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1068	HYDROD	laser interaction	target response	reduced atmos.	
France	Marseille		IMFM		Creput
ESN 36-11 & Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 82					
1069	HYDROD	atmos. breakdown	aerosols	hydro model	
France	Marseille		IMFM		Vigliano
ESN 36-11 & Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 82					
1070	LASERS	freq. tripling	laser excited	Xenon	
France	Toulouse		Univ. Paul Sabatier		Salamero
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1983					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
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<u>Ref and Notes</u>					
1071	LASERS	Ar-Kr	VUV emission	kinetics	
France	Toulouse		Univ. Paul Sabatier		Brunet
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1072	LASERS	resonators	tapered reflec.	numerics	
Italy	Naples		Univ. di Napoli		Luchini
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1073	LASERS	x-ray	Al recomb.	inversion	
France	Orsay		Univ. Paris Sud		Jamelot
ESN 36-11 & Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 82					
1074	LASERS	XeF excimer	long. discharge	352 nm	
Switz	Bern		Inst. fur Angewandte Phys.		Gerber
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1075	LASERS	turbulent mixing	laser cavity	numerics	
France	Chatillon		ONERA		Schmitt
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1076	LASERS	gas dynamic	optical cavity	analytics	
Poland	Gdansk		Polish Acad. of Sci.		Rabcznk
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept. 1982					
1077	LASERS	CO2	nozzle mixing	semi-empirical	
W Ger	Stuttgart		DFVLR		Schall
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1078	LASERS	CO2	microwave excited	cw performance	
W Ger	Stuttgart		DFVLR		Schall
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1079	LASERS	CO2	subsonic	rf excitation	
W Ger	Stuttgart		DFVLR		Schock
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1080	LASERS	IR	waveguides	dielec. coated	
Italy	Naples		Univ. di Napoli		Cutolo
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
1081	LASERS	x-ray	plasma recomb.	scaling laws	
W Ger	Stuttgart		DFVLR		Bohn
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1082	LASERS	XeCl	x-ray preion.	high rep. rate	
France	Marseille		IMFM		Pontaine
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1083	CHEMAT	laser cutting	guided flow	bulk steel	
Austri	Wien		Tech. Univ. Wien		Schuoocker
ESN 36-11 & Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1084	CHEMAT	laser treatment	alloy surface	parameters	
Italy	Padua		Univ. di Padova		Ramons
ESN 36-11 & Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 82					
1085	HYDROD	laser interaction	metal vapor	gas dynamics	
Italy	Turin		Poli. di Torino		Germano
ESN 36-11 & Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1086	LASERS	beam profile	thermography	expt & theory	
Italy	Naples		Univ. di Napoli		Monti
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1087	HYDROD	flow mixing	trip jets	visualization	
Belgum	Rhode St. Genese		Von Karman Inst.		Manfriani
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1088	LASERS	gas dynamic	expansion nozzle	array design	
Israel	Beer-Sheva		Nuclear Res. Cen. Negev		Chuchem
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept. 1982					
1089	LASERS	CO2	research	matter processing	
W Ger	Dusseldorf		Univ. of Dusseldorf		Uhlenbusch
ESN 38-3 & Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept 82					
1090	CHEMAT	laser	absorption waves	metal processing	
Italy	Milan		CISE S.p.A.		Donati
ESN 36-11 & Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 82					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
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<u>Ref and Notes</u>					
1091	ATOMIC	vibrat. states	supersonic jets	CO-N2 mix	
France	Gif-sur-Yvette		CEN Saclay		Gaveau
Proc. 4th Intl. Sym. Gas Flow & Chem. Lasers, Stresa, 13-17 Sept, 1982					
1092	PLASMA	mag. quadrupole	steady flow	orbit theory	
UK	Manchester		UMIST		Daly
Plasma Phys. 24, no.8, p923 (1982)					
1093	ATOMIC	many atom sys.	Dicke model	Fokker Planck	
UK	Manchester		UMIST		Bullough
J. Phys. B15, p2635 (1982)					
1094	ATOMIC	bistability	refractive index	theory	
UK	Manchester		UMIST		Bullough
Quantum Elec. & Electro-Optics, P.L. Kinghted., John Wiley, 1983, p229					
1095	SOLIDS	electrification	contact	dielectrics	
UK	Manchester		UMIST		Rose-Innes
ESN 37-7 and J. Phys. D15, p2283 (1982)					
1096	SOLIDS	electrification	contact	tunnelling	
UK	Manchester		UMIST		Lowell
ESN 37-7					
1097	SOLIDS	electrification	aircraft	ice particles	
UK	Manchester		UMIST		Illingworth
ESN 37-9 and EOARD Project Brief, 18 Nov. 82					
1098	BASICS	solitons	Sine-Gordon	stat mech	
UK	Manchester		UMIST		Bullough
Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1099	BASICS	solitons	integral eqns	linearization	
Nether	Leiden		Inst. Lorentz		Capel
Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1100	SOLIDS	solitons	Josephson junc.	sine-Gordon	
Denmrk	Lyngby		Tech. Univ. of Denmark		Christiansen
ESN 36-9 and Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
1101	BASICS	solitons	space-time	numerics	
UK	Oxford		Oxford Univ.		Curir
ESN 36-10 and Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1102	BASICS	solitons	spin systems	inverse method	
France	Paris		Univ. Pierre et Marie Curie		de Vega
Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1103	BASICS	solitons	inv. scattering	initial potential	
UK	London		Imperial College		Elgin
Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1104	SOLIDS	solitons	ferromagnets	domain walls	
UK	Lancaster		Univ. of Lancaster		Fairbairn
Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1105	BASICS	solitons	nonlin. evo. eq.	structure	
UK	Manchester		UMIST		Fordy
Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1106	BASICS	solitons	KdV eqn	Backlund trans.	
UK	Newcastle upon Tyne		Univ. of Newcastle upon Tyne		Freeman
Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1107	SOLIDS	solitons	diatomic chains	anal. & numerics	
France	Dijon		Univ. de Dijon		Pnevmatikos
ESN 36-10 and Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1108	HYDROD	internal waves	stratified	finite depth eqn	
Italy	Rome		Univ. degli Studi-Roma		Gibbons
Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1109	BASICS	solitons	KdV eqn	nuclear appli.	
W Ger	Hannover		Univ. of Hannover		Hefter
Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1110	SOLIDS	solitons	sine-Gordon	numeric kinks	
France	Nice		Observ. de Nice		Fernandez
Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
1111	SOLIDS	solitons	ferromagnet	compressible	
Poland	Warsaw		Warsaw Tech. Univ.		Holyst
Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1112	BASICS	solitons	Boussinesq eqn	numerics	
UK	Dundee		Univ. of Dundee		Manoranjana
Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1113	BASICS	solitons	nonlin TL	KdV tunneling	
Italy	Padua		Univ. di Padova		Minelli
ESN 36-9 and Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1114	HYDROD	solitons	internal waves	Andaman Sea	
Italy	Turin		Ist. Cosmo-Geofisica CNR		Osborne
ESN 36-9 and Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1115	SOLIDS	solitons	atomic chain	substrate poten.	
France	Dijon		Univ. de Dijon		Peyrard
ESN 36-10 and Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1116	BASICS	solitons	Schrodinger eqn	conservation laws	
Italy	Rome		Univ. di Roma		Bruschi
Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1117	BASICS	solitons	Heisenberg. chain	spin dynamics	
Switz	Zurich		IBM Zurich Research Lab.		Schneider
Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1118	BASICS	solitons	KdV eqn	phase shifts	
Nether	Utrecht		Rijksuniv. Utrecht		Schuur
Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1119	BASICS	solitons	Backlund trans.	gauge trans.	
Italy	Lecce		Univ. di Lecce		Boiti
Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					
1120	BASICS	solitons	phase boundary	stat. mech.	
UK	Edinburgh		Univ. of Edinburgh		Wallace
ESN 36-10 and Proc. Solitons 82 Conf., Edinburgh 23-27 Aug. 1982					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
1121	COMPUT display		large screen	laser projection	
UK	Little Paxton		Dwight Cavendish Co.		Shortle
ESN 37-2					
1122	HYDROD test facility		ship hulls	water channel	
UK	Liverpool		Univ. of Liverpool		Millward
ESN 37-7					
1123	HYDROD turbulence		pipe flow	hull roughness	
UK	Liverpool		Univ. of Liverpool		Lewkowicz
ESN 37-7					
1124	CHEMAT torque converter		electroviscous	clutch	
UK	Liverpool		Univ. of Liverpool		Sproston
ESN 37-2 and Univ. Liverpool Rep. FM/83/82, 1982					
1125	HYDROD turbulence		boundary layer	velocity probe	
UK	Liverpool		Univ. of Liverpool		Gibblings
ESN 37-7					
1126	CHEMAT neutron beam		metallurgy	applications	
UK	Didcot		AERE Harwell		Windsor
ESN 37-8 and Metallurgist & Materials Tech., p67, Feb. 1983					
1127	BMSRAD neutron source		linear accel	scattering diag	
UK	Didcot		AERE Harwell		Windsor
ESN 37-8 and Phys. Bull, 33, p291 (1982)					
1128	CPBICF REB		angular dist.	radial profile	
Nether	Amsterdam		Inst. for Atomic & Molec. Phys.		Janssen
Plasma Phys. 24, no.6, p691 (1982)					
1129	PLASMA temp. measure		Rutherford scat.	JET	
Nether	Nieuwegein		Inst. voor Plasmafysica		Brocken
Rijnhuizen Rep. 82-140, 1982					
1130	HYDROD diffusion		suspensions	3-body hydro	
Nether	Leiden		Inst. Lorentz		Beenakker
Phys. Lett. 91, no.6, p290 (1982)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
1131	BASICS	solitons	Boussinesq eqn	linearization	
Nether	Leiden		Inst. Lorentz		Quispe
Phys. Lett. 91A, no.4, p143 (1982)					
1132	ENERGY	air pollution	analysis	ion source	
Nether	Amsterdam		Inst. for Atomic & Molec. Phys.		Genuit
ESN 36-12					
1133	BMSRAD	negative ions	rf accel	MEQALAC	
Nether	Amsterdam		Inst. for Atomic & Molec. Phys.		Granneman
ESN 36-12					
1134	DIAGNO	XUV	windows	fabrication	
Nether	Leiden		Huygens Lab.		Dekorta
ESN 36-12 and Rev. Sci. Instrum. 52, no.5, p673 (1981)					
1135	HYDROD	acoustic waves	laser generated	solid diagnosis	
UK	Hull		Univ. of Hull		Dewhurst
J. Appl. Phys. 53, no.6, p4064 (1982)					
1136	CHEMAT	neutron beam	material testing	review	
UK	Didcot		AERE Harwell		Schofield
ESN 37-8					
1137	CPBICF	REB	injection	neutral H2	
Nether	Amsterdam		Inst. for Atomic & Molec. Phys.		de Haan
Phys. Fluids 25, no.4, p592 (1982)					
1138	DIAGNO	mass spectra	laser desorption	thermal effects	
Nether	Amsterdam		Inst. for Atomic & Molec. Phys.		Peyl
J. Mass Spectr. & Ion Phys. 42, p125 (1982)					
1139	SOLIDS	laser annealing	implanted Si	threshold	
Nether	Amsterdam		Inst. for Atomic & Molec. Phys.		Hoonhout
J. Appl. Phys. 53, no.6, p4379 (1982)					
1140	ATOMIC	negative ions	W-Cs contact	models	
Nether	Amsterdam		Inst. for Atomic & Molec. Phys.		Rasser
ESN 36-12 and Surf. Sci. 118, p697 (1982)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
1141	CPBICF	REB	LF instability	neutralized	
Nether	Amsterdam		Inst. for Atomic & Molec. Phys.		Hopman
Plasma Phys. 24, p951 (1982)					
1142	PLASMA	high beta	turbulent heating	tokamak	
Nether	Nieuwegein		Inst. voor Plasmafysica		de Kluiver
Rijnhuizen Rep. I.R. 82/053, 1982					
1143	CPBICF	current loop	optical	faraday rotation	
Nether	Nieuwegein		Inst. voor Plasmafysica		Bobeldijk
ESN 37-1					
1144	LASERS	bistability	saturable absorb	limit cycle	
Spain	Madrid		Univ. Nac. de Educacion a Distancia		Velarde
Phys. Rev. Lett. 49, p35 (1982)					
1145	BMSRAD	arc lamps	high pressure	temp. determine	
France	Toulouse		Univ. Paul Sabatier		Damelincourt
ESN 37-6 and J. Appl. Phys. 53, no.11, p7259 (1982)					
1146	SOLIDS	plasmon-phonon	Raman scattering	Sb ₂ Te ₃	
Greece	Athens		Nat. Tech. Univ. of Athens		Anastassakis
ESN 37-6 and Zeits. Phys. B-Condensed Matter 49, p191 (1982)					
1147	WETHER	underground	tunnels	EM scattering	
Greece	Athens		Nat. Tech. Univ. of Athens		Uzunoglu
ESN 37-6 and J. Phys. A15, p459 (1982)					
1148	BMSRAD	EM scattering	dielectric wg	inhomogeneity	
Greece	Athens		Nat. Tech. Univ. of Athens		Uzunoglu
ESN 37-6 and J. Opt. Soc. Am. 72, no.5, p628 (1982)					
1149	BMSRAD	optical fiber	eccentric clad	symmetric modes	
Greece	Athens		Nat. Tech. Univ. of Athens		Metrou
ESN 37-6 and IEEE Trans. MTT-30, no.3 p217 (1982)					
1150	BMSRAD	microstrip	dipole radiation	gyromagnet	
Greece	Athens		Nat. Tech. Univ. of Athens		Tsalamengas
ESN 37-6 and J. Appl. Phys. 53, no.11, p7149 (1982)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
1151	SOLIDS	Raman spectra	FIR scattering	semiconductors	
Greece	Athens		Nat. Tech. Univ. Zografu		Anastassakis
ESN 37-6					
1152	CHEMAT	neutron reactions	metals	reactor material	
Greece	Athens		Nat. Tech. Univ. Zografu		Xenoulis
ESN 37-6					
1153	SOLIDS	x-ray analysis	crystals	organic molecules	
Greece	Athens		Nucl. Res. Cen. Demokritos		Filippakis
ESN 37-6					
1154	SOLIDS	Mossbauer spectra	pottery	chemical bonds	
Greece	Athens		Nucl. Res. Cen. Demokritos		Kostikas
ESN 37-6					
1155	COMPUT	software	acous tomography	signal processing	
Greece	Athens		Nucl. Res. Cen. Demokritos		Laskaris
ESN 37-6					
1156	PLASMA	drift waves	argon discharge	rf heated	
Greece	Athens		Nucl. Res. Cen. Demokritos		Anastassiades
ESN 37-6 and J. Phys. Soc. Japan 52, p492 (1983)					
1157	SOLIDS	plasmons	Al matrix	He cavities	
W Ger	Julich		Kernforsch. Julich		Manzke
Phys. Rev. Lett. 51, no.12, p1095 (1983)					
1158	PLASMA	limiter	metal impurity	transport	
W Ger	Julich		Kernforsch. Julich		Claassen
Nucl. Fusion 23, no.5, p597 (1983)					
1159	PLASMA	drift waves	spectra	magnetic shear	
W Ger	Julich		Kernforsch. Julich		Rogister
Phys. Fluids 26, no.6, p1467 (1983)					
1160	BMSRAD	channeling	positrons	silicon	
Switz	Zurich		Univ. of Zurich		Patterson
ESN 38-1 and SIN Newsletter no.15, Jan. 1983					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
1161	BMSRAD pion therapy		supercon magnet	progress report	
Switz	Villigen		Swiss Inst. for Nucl. Res.		von Essen
SIN Medical Newsletter no.4, Aug. 1982					
1162	PLASMA LCT coil		NbTi	He cooled	
Switz	Villigen		Swiss Inst. for Nucl. Res.		Vecsey
Proc. 8th Intl. Conf. on Magnet Tech., Grenoble, 5-9 Sept. 1983					
1163	BMSRAD meson source		2 GeV accelerator	ASTOR	
Switz	Villigen		Swiss Inst. for Nucl. Res.		Joho
Proc. Particle Accelerator Conf., Santa Fe, 1983					
1164	BMSRAD channeling		radiation	anharmonic poten	
Switz	Geneva		CERN		Moller
ESN 38-1 and CERN Rep. EP/82-10, Jan. 1982					
1165	CPBICF Brillouin scat		z-pinch plasma	theory + expt	
W Ger	Bochum		Ruhr Univ.		Gellert
App. Phys. B32, p2562 (1983)					
1166	WETHER solar flares		stability	2d theory	
W Ger	Bochum		Ruhr Univ.		Schindler
Solar Physics 87, p103 (1983)					
1167	CPBICF gas puff		plasma formation	Stark broadening	
W Ger	Bochum		Ruhr Univ.		Ackermann
ESN 38-2 and J. Phys. D16, p773 (1983)					
1168	PLASMA energy principle		kinetic	2d theory	
W Ger	Bochum		Ruhr Univ.		Schindler
Phys. Fluids 26, no.8, p2222 (1983)					
1169	WETHER active plasmas		planetary	solar	
W Ger	Bochum		Ruhr Univ.		Schindler
Physica Scripta T2/1, p163 (1982)					
1170	PLASMA solitons		electromagnetic	quasistatic	
W Ger	Bochum		Ruhr Univ.		Shukla
Phys. Fluids 26, no.7, p1769 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
1171	PLASMA	Alfven waves	nonlinear	propagation	
W Ger	Bochum		Ruhr Univ.		Shukla
Phys. Rev. A27, no.3, p1702 (1983)					
1172	PLASMA	Langmuir waves	EM instability	analytics	
W Ger	Bochum		Ruhr Univ.		Shukla
Phys. Fluids 26, no.4, p959 (1983)					
1173	CPBICF	z-pinch	laser scattering	theory + expt	
W Ger	Bochum		Ruhr Univ.		Maurmann
Phys. Fluids 26, no.6, p1630 (1983)					
1174	PLASMA	ion plasma wave	mode conversion	slow wave struc.	
W Ger	Bochum		Ruhr Univ.		Kramer
Phys. Lett. 96A, no.4, p195 (1983)					
1175	PLASMA	LH waves	absorption	turbulent	
W Ger	Bochum		Ruhr Univ.		Bohm
Plasma Phys. 25, no.8, p911 (1983)					
1176	PLASMA	ion acous wave	afterglow	diagnostic	
W Ger	Bochum		Ruhr Univ.		Derra
Plasma Phys. 25, no.4, p435 (1983)					
1177	PLASMA	diffusion	high B-field	guiding center	
W Ger	Bochum		Ruhr Univ.		Fromling
Phys. Fluids 26, no.5, p1240 (1983)					
1178	SOLIDS	aluminum	reflectivity	melting point	
W Ger	Dusseldorf		Univ. of Dusseldorf		Dreehsen
ESN 38-3 and to be publ. in J. Appl. Phys.					
1179	PLASMA	neutral transport	tokamak	res. fluores.	
W Ger	Dusseldorf		Univ. of Dusseldorf		Hackmann
J. Nucl. Materials 111 & 112, p221 (1982)					
1180	CPBICF	plasma focus	high speed	polarity effects	
W Ger	Dusseldorf		Univ. of Dusseldorf		Decker
Phys. Lett. 89A, no.8, p393 (1982)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
1181	LASERS	D20	high power	CO2 pumped	Behn
Switz	Lausanne		Ecole Poly. Federale		
J. Appl. Phys. 54, no.6, p2995 (1983)					
1182	PLASMA	MHD stability	helical symmetry	2d code	Merkel
W Ger	Garching		MPI fur Plasmaphysik		
Nucl. Fusion 23, no.8, p1061 (1983)					
1183	PLASMA	potential jumps	argon	electron dist.	Guyot
Switz	Lausanne		Ecole Poly. Federale		
Phys. Fluids 26, no.6, p1596 (1983)					
1184	PLASMA	MHD stability	spheromak	vs aspect ratio	Pfersich
Switz	Lausanne		Ecole Poly. Federale		
Nucl. Fusion 23, no.9, p1127 (1983)					
1185	PLASMA	Alfven waves	plasma heating	tokamak	de Chambrier
Switz	Lausanne		Ecole Poly. Federale		
Plasma Phys. 25, no.9, p1021 (1983)					
1186	PLASMA	MHD modes	radial structure	tokamak	Troyon
Switz	Lausanne		Ecole Poly. Federale		
Plasma Phys. 25, no.2, p207 (1983)					
1187	PLASMA	nonlinear waves	3-fluid plasma	numerics	Festean-Barrioz
Switz	Lausanne		Ecole Poly. Federale		
Computer Phys. Comm. 27, p11 (1982)					
1188	PLASMA	Langmuir waves	nonlin evolut	QUIPS device	Michel
Switz	Lausanne		Ecole Poly. Federale		
Physica Scripta T2/2, p571 (1982)					
1189	LASERS	D20	oscillators	comparisons	Green
Switz	Lausanne		Ecole Poly. Federale		
IEEE J. Quant Elect. QE-19, no.2, p222 (1983)					
1190	PLASMA	transport	FIR laser	diagnostic	Siegrist
Switz	Lausanne		Ecole Poly. Federale		
Appl. Optics 22, no.9, p1318 (1983)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
1191	BMSRAD FEL		nonrel elec.	in CO2 field	
Israel	Tel Aviv		Tel Aviv Univ.		Gover
EOARD Proposal 83-076 (1983)					
1192	BMSRAD	Smith Purcell rad.	electron beam	grating	
Israel	Tel Aviv		Tel Aviv Univ.		Gover
AFOSR Rep., May 1983					
1193	WETHER	atmos. trans.	communication	expt. + compute	
Israel	Haifa		Technion		Lipson
ESN 37-10/11 and Infrared Phys. 20, p165 (1980)					
1194	LASERS	gas mixtures	electron attach	chlorine donors	
Israel	Jerusalem		Hebrew Univ.		Kligler
J. Chem. Phys. 77, no.7, p3458 (1982)					
1195	CPBICF	HIF	overview		
UK	Didcot		Rutherford Appleton Lab.		Lawson
RAL Rep. RL-83-083, Sept. 1983					
1196	CPBICF	lightening	vulnerability	aircraft	
UK	Abingdon		Culham Lab.		Burrows
ESN 37-4 and Culham Rep. CLM-R212, 1981					
1197	PLASMA	argon	e-beam excited	elec distrib	
France	Orsay		Univ. Paris Sud		Bretagne
J. Phys. D15, p2205 (1982)					
1198	CPBICF	ion stopping	dense plasma	random phase	
France	Orsay		Univ. Paris XI		Maynard
Phys. Rev. A26, no.1, p665 (1982)					
1199	PLASMA	surfatron	microwave excited	expt.	
France	Orsay		Univ. Paris XI		Chaker
J. Physique-Letters 43, pL71 (1982)					
1200	PLASMA	surfatron	inhomo plasma	propagation	
France	Orsay		Univ. Paris XI		Nghiem
J. Appl. Phys. 53, no.4, p2920 (1982)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
1201	LASERS	ring resonator	bistability	solitons	
W Ger	Munster		Univ. Munster		Paulus
Phys. Lett. 102A, no.3, p89 (1984)					
1202	CPBICF	breakdown	air	water vapor	
Nether	Eindhoven		Eindhoven Univ. of Tech.		Verhaart
J. Appl. Phys. 55, no.9, p3286 (1984)					
1203	SOLIDS	optical bistab.	band shrinkage	theory	
W Ger	Frankfurt		Univ. of Frankfurt		Schmidt
Appl. Phys. Lett. 44, no.8, p787 (1984)					
1204	SOLIDS	thin films	organic	ion implanted	
Italy	Catania		Univ. di Catania		Calcagno
Appl. Phys. Lett. 44, no.8, p761 (1984)					
1205	LASERS	ring cavity	molecular gas	hysteresis	
UK	Edinburgh		Heriot Watt Univ.		Harrison
Appl. Phys. Lett. 44, no.8, p716 (1984)					
1206	CHEMAT	e-beam litho	electroplate	MFQ devices	
W Ger	Aachen		Tech. Univ. Aachen		Kratschmer
Appl. Phys. Lett. 44, no.10, p1011 (1984)					
1207	WETHER	earthquake	EM emission	lab simulation	
Italy	Rome		Ist. di Astrofisica Spaziale		Bianchi
Nature 308, p830, 26 Apr. 84					
1208	BASICS	fractal	dendritic growth	electric expt	
UK	Cambridge		Univ. of Cambridge		Brady
Nature 309, p225, 17 May 84					
1209	HYDROD	shock waves	laser driven	metal targets	
France	Poitiers		Ecole Nationale Supérieure		Cottet
Phys. Rev. Lett. 52, no.21, p1884 (1984)					
1210	BASICS	many body system	chaotic	conductivity	
Italy	Milan		Univ. degli Studi di Milano		Casati
Phys. Rev. Lett. 52, no.21, p1861 (1984)					

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Name</u>
<u>Country</u>	<u>City</u>		<u>Institute</u>		
<u>Ref and Notes</u>					
1211	BASICS	chaotic maps	random walks	Monte Carlo	
France	Nice		Univ. de Nice		Arneodo
Phys. Rev. Lett. 52, no.21, p1857 (1984)					
1212	BASICS	random walks	linear chain	trapping	
W Ger	Julich		Kernforsch. Julich		Anlauf
Phys. Rev. Lett. 52, no.21, p1845 (1984)					
1213	BASICS	iterative maps	cellular automata	time evolution	
Portug	Lisbon		CFMC-INIC		de Deus
Phys. Lett. 102A, no.4, p149 (1984)					
1214	BMSRAD	sodium lamps	acoustic res.	detection	
Nether	Eindhoven		Philips Research Labs.		Jongorius
J. Appl. Phys. 55, no.7, p2685 (1984)					
1215	DIAGNO	soft x-ray	bolometer	thin film	
W Ger	Garching		MPI fur Plasmaphysik		Muller
J. Appl. Phys. 55, no.7, p2635 (1984)					
1216	CPBICF	annular z-pinch	gas puff	x-ray source	
UK	London		Imperial College		Dangor
ESN 37-9					

Appendix C:
Subject List

Rec ID	Topic	KW1	KW2	KW3	Country
500	ATOMIC	argon	excitation	cross sections	Portug
201	ATOMIC	autoionization	laser induced	spectrum	W Ger
1094	ATOMIC	bistability	refractive index	theory	UK
321	ATOMIC	clusters	plasma frequency	particle size	Italy
347	ATOMIC	deuteron	reflection	first wall	Sweden
580	ATOMIC	dissoc. recomb.	afterglow	temp. depend.	UK
168	ATOMIC	electron	backscatter	thin films	W Ger
172	ATOMIC	electron	mobility	gases	Italy
508	ATOMIC	electron	penetration	expt & theory	Denmrk
171	ATOMIC	electron	spectroscopy	review	Sweden
818	ATOMIC	electron states	polyatomic mol.	experiment	Yugos
1041	ATOMIC	EXAFS	laser x-rays	Al K edge	UK
821	ATOMIC	excitons	argon solid	VUV synch.	W Ger
731	ATOMIC	FIR spectra	ferroelectrics	improved method	France
406	ATOMIC	fractal surface	molecules	adsorption	Israel
501	ATOMIC	He-Co	ionization	glow discharge	Israel
166	ATOMIC	heavy ion	wake	interference	W Ger
199	ATOMIC	HeH	molecular states		Spain
167	ATOMIC	helium	ionization	ions	Denmrk
688	ATOMIC	hemoglobin	ps relaxation	mm spectra	W Ger
310	ATOMIC	high pressure	spectroscopy	molecular forces	UK
170	ATOMIC	hydrogen	atomic	stable	Nether
480	ATOMIC	ionization	laser induced	two-step process	Egypt
1017	ATOMIC	laser plasma	XUV lines	Cu-like	Israel
812	ATOMIC	light ions	absorption spec	VUV	Italy
903	ATOMIC	line broadening	nonlinear	Poisson stat.	W Ger
908	ATOMIC	line broadening	Stark effect	rf discharge	W Ger
816	ATOMIC	line broadening	Thomas-Fermi	finite temp.	Israel
730	ATOMIC	mag. resonance	mm wave range	exptl tech.	W Ger
1093	ATOMIC	many atom sys.	Dicke model	Fokker Planck	UK
370	ATOMIC	microwave	sensitivity	yeast	W Ger
729	ATOMIC	molec. interac.	ps time scale	IR study	France
826	ATOMIC	molec. states	highly excited	structure	France
581	ATOMIC	multiple ions	photon absorp	rare gases	France
1140	ATOMIC	negative ions	W-Cs contact	models	Nether
582	ATOMIC	N2 glow dis.	emission spec	temp. measure	France
169	ATOMIC	optical	linewidth	subnatural	Poland
557	ATOMIC	optogalvanic	dye laser pumped	neon discharge	Israel
325	ATOMIC	oxygen-iodine	kinetics	spectroscopy	France
822	ATOMIC	photoconduction	argon solid	VUV synch.	Israel
819	ATOMIC	photoemission	rare gas solid	excitons	W Ger
820	ATOMIC	photoionization	Xenon excimers	VUV synch.	Israel
636	ATOMIC	Raman spectra	living cells	LF lines	Italy
312	ATOMIC	rare-halogen	atomic processes	lasing theory	UK
823	ATOMIC	resonant emission	metals	theory	Sweden
698	ATOMIC	Rydberg atoms	mm wave interac.	Na beam	France
566	ATOMIC	Rydberg maser	super-radiant	microwaves	France
602	ATOMIC	Rydberg state	stimulated rad.	corrections	France
331	ATOMIC	spectroscopy	He-like titanium	plasma	France
825	ATOMIC	spectroscopy	high resolution	magnetic field	UK
280	ATOMIC	spectrum	weak lines	observed law	UK
546	ATOMIC	spontan emission	cavity enhanced	single atom	France

Rec ID	Topic	KW1	KW2	KW3	Country
360	ATOMIC	stopping power	light ions	low velocity	Denmrk
627	ATOMIC	stored ions	buffer gas	distribution func	France
411	ATOMIC	surface states	layered matter	graphite	Switz
939	ATOMIC	trace element	analysis	synch. rad.	UK
811	ATOMIC	transition rates	atoms and ions	computer code	UK
355	ATOMIC	UF6	laser absorption	isotope sep.	Israel
1091	ATOMIC	vibrat. states	supersonic jets	CO-N2 mix	France
545	ATOMIC	VUV spectra	He bubbles	in Al and tin	Belgum
319	ATOMIC	water	bond network	molecular dynam.	W Ger
590	ATOMIC	x-ray absorbtion	photoemission	selection rules	France
815	ATOMIC	XUV	photoemission	atomic iodine	France
153	BASICS	Abel	inversion	integral eqn.	Israel
563	BASICS	Abel inversion	analytic rep.	exptl data	UK
645	BASICS	attractor	laser	master equation	UK
890	BASICS	automata	quantum mech.	self measure	Israel
871	BASICS	bifurcation	frequency div.	Schottky circuit	UK
398	BASICS	channeling	positrons	lattice blocking	Switz
257	BASICS	chaos	bifurcation	RCL circuit	Portug
154	BASICS	chaos	chem diffusion	model	Czech
880	BASICS	chaos	chem. oscil.	stirred & forced	Czech
646	BASICS	chaos	elec. circuit	Toda oscillator	W Ger
152	BASICS	chaos	electronic	nonlin circuit	Italy
874	BASICS	chaos	forced pendulum	expt. & numerics	E Ger
883	BASICS	chaos	Hamiltonian sys.	quartic potential	UK
650	BASICS	chaos	hopping	elec. circuit	Italy
873	BASICS	chaos	Joshephson junc.	circuit analog	W Ger
872	BASICS	chaos	noise	bistable circuit	Italy
459	BASICS	chaos	nonlinear TL	experiment	UK
875	BASICS	chaos	RCL circuit	general study	UK
870	BASICS	chaos	reverse bifur.	RCL circuit	Portug
1211	BASICS	chaotic maps	random walks	Monte Carlo	France
881	BASICS	chem reactions	nonlinear	spatial structure	Israel
882	BASICS	chemical waves	nonlin diffusion	3-D	UK
889	BASICS	clusters	growth & coalesc	theory & sim	France
419	BASICS	critical phen.	kinetic	1D lattice	W Ger
933	BASICS	electron	stability	new limit	Italy
914	BASICS	element 109	HI collisions	Fe + Bi	W Ger
263	BASICS	enzyme	strange attractor	oscillating model	Denmrk
324	BASICS	Euler Eqn.	implicit	solutions	France
208	BASICS	ferromagnetic	self energy	cylinder	Israel
373	BASICS	fractal	aggregates	simulation	Israel
1208	BASICS	fractal	dendritic growth	electric expt	UK
366	BASICS	fractals	aggregation	surface	Hungry
657	BASICS	fractals	Brownian motion	parameter	UK
409	BASICS	fractals	dielectric	breakdown	Switz
640	BASICS	fractional charge	semiconductor	spectral search	Nether
294	BASICS	Hamiltonions	nonlinear	intermittent	Italy
894	BASICS	heavy nuclei	synthesis	stability limit	W Ger
150	BASICS	hydrogen	rf cavity	parity	Switz
386	BASICS	information	quantum limit	entropy	UK
651	BASICS	Ising and Potts	cellular automata	exact results	Israel
1213	BASICS	iterative maps	cellular automata	time evolution	Portug

Rec ID	Topic	KW1	KW2	KW3	Country
579	BASICS	jellium	stat. mech.	2d circular	Norway
144	BASICS	liquid helium	nucleation	critical point	W Ger
589	BASICS	liquid helium	quantized	evaporation	UK
1210	BASICS	many body system	chaotic	conductivity	Italy
477	BASICS	neutron	interference	accel. frame	W Ger
913	BASICS	neutron scatter	uranium	n interferometer	Italy
644	BASICS	noise	identity map	random function	UK
382	BASICS	nonlin. oscil.	Poincare map	neon lamp	Nether
918	BASICS	nuclear splitting	high E protons	break point	W Ger
313	BASICS	partial d.e.	nonlinear	asymptotic anal.	Nether
891	BASICS	percolation	fractal lattice	renorm group	Israel
628	BASICS	phase interface	fluctuations	dynamics	W Ger
892	BASICS	phase trans.	fractals	Ising models	Israel
159	BASICS	primes	public key codes	cryptography	Israel
157	BASICS	primes	tests		France
158	BASICS	primes	tests		Nether
648	BASICS	quadratic map	population map	log link	Belgium
416	BASICS	quantum	operational	measurements	Poland
155	BASICS	quantum mech.	Bells ineq.	two photon expt.	France
318	BASICS	quasiperiodic	solitons	Sine Gordon	Poland
429	BASICS	radioactivity	carbon emission	223Ra	UK
985	BASICS	random walks	chaos	diffusion	W Ger
365	BASICS	random walks	fractals	2D	France
1212	BASICS	random walks	linear chain	trapping	W Ger
658	BASICS	ring gyros	adiabat. invar.	model	UK
420	BASICS	SAWs	group renorm.	gamma exponent	W Ger
295	BASICS	Schrodinger Eqn.	quartic potential	exact solution	UK
887	BASICS	self avoid walks	fractals	Monte Carlo	France
886	BASICS	self avoid walks	renorm group	critical prop.	UK
888	BASICS	self avoid walks	statistics	Monte Carlo	France
357	BASICS	self avoiding	walks	scaling	Israel
418	BASICS	self avoiding	walks	spiralling	Nether
619	BASICS	Sine Gordon	Weierstrass f	solutions	Denmrk
1119	BASICS	solitons	Backlund trans.	gauge trans.	Italy
1131	BASICS	solitons	Boussinesq eqn	linearization	Nether
1112	BASICS	solitons	Boussinesq eqn	numerics	UK
252	BASICS	solitons	Davydov	lifetime	Denmrk
592	BASICS	solitons	DNA	micro. model	W Ger
296	BASICS	solitons	EM effects	DNA function	UK
917	BASICS	solitons	heavy ion reac.	momentum trans.	W Ger
1117	BASICS	solitons	Heisenberg. chain	spin dynamics	Switz
1099	BASICS	solitons	integral eqns	linearization	Nether
1103	BASICS	solitons	inv. scattering	initial potential	UK
1106	BASICS	solitons	KdV eqn	Backlund trans.	UK
1109	BASICS	solitons	KdV eqn	nuclear appli.	W Ger
1118	BASICS	solitons	KdV eqn	phase shifts	Nether
349	BASICS	solitons	Korteweg de Vries	recurrence	W Ger
1113	BASICS	solitons	nonlin TL	KdV tunneling	Italy
1105	BASICS	solitons	nonlin. evo. eq.	structure	UK
1120	BASICS	solitons	phase boundary	stat. mech.	UK
1116	BASICS	solitons	Schrodinger eqn	conservation laws	Italy
519	BASICS	solitons	Schrodinger eqn	transverse instab	Nether

Rec ID	Topic	KW1	KW2	KW3	Country
146	BASICS	solitons	Sine-Gordon	quasiperiodic	Poland
1098	BASICS	solitons	Sine-Gordon	stat mech	UK
1101	BASICS	solitons	space-time	numerics	UK
1102	BASICS	solitons	spin systems	inverse method	France
315	BASICS	sparse matrix	iterative method	convergence	Nether
259	BASICS	stability	electric system	thermodynamics	Spain
156	BASICS	travelling	salesman	algorithm	Czech
262	BASICS	universality	period n-tupling	complex maps	Denmrk
143	BASICS	vortices	superfluid He3	NMR	Finlnd
649	BASICS	ld maps	intermittency	period sequence	Portug
797	BMSRAD	accel. processes	cosmic rays	astrophysics	UK
397	BMSRAD	acceleration	random potential	stat. models	W Ger
946	BMSRAD	accelerator	laser beat wave	modeling	UK
794	BMSRAD	accelerators	conventional	limits	W Ger
948	BMSRAD	accelerators	elem. particles	review	Switz
192	BMSRAD	accelerators	high-energy	review	Switz
947	BMSRAD	accelerators	nuclear physics	review	W Ger
793	BMSRAD	accelerators	types	review	UK
1145	BMSRAD	arc lamps	high pressure	temp. determine	France
164	BMSRAD	arc lamps	mercury	acoustics	W Ger
747	BMSRAD	back wave oscil.	properties, modes	setups	France
391	BMSRAD	channeling	dechan length	expression	W Ger
333	BMSRAD	channeling	polarized photons	electron beams	Switz
1160	BMSRAD	channeling	positrons	silicon	Switz
1164	BMSRAD	channeling	radiation	anharmonic poten	Switz
801	BMSRAD	deuterium lamp	VUV radiance	MgFl window	Uk
375	BMSRAD	electron	back scattering	CRT	UK
941	BMSRAD	electron beam	positioning	synch. rad.	UK
795	BMSRAD	electron ring	ion accelerator	review	W Ger
160	BMSRAD	electrostatic	lenses	ray trace	W Ger
254	BMSRAD	EM radiation	scattering	dielectrics	UK
1148	BMSRAD	EM scattering	dielectric wg	inhomogeneity	Greece
665	BMSRAD	FEL	Adone ring	prelim. results	Italy
926	BMSRAD	FEL	bunch lengthening	anomolies	France
919	BMSRAD	FEL	IR tunable	linac	UK
921	BMSRAD	FEL	IR tunable	microtron	Italy
925	BMSRAD	FEL	multilayer mirror	degradation	France
1191	BMSRAD	FEL	nonrel elec.	in CO2 field	Israel
928	BMSRAD	FEL	optical klystron	gain & spread expt	France
923	BMSRAD	FEL	optical klystron	gain studies	France
927	BMSRAD	FEL	time structure	nonlin theory	France
922	BMSRAD	FEL	undulator	optimization	France
924	BMSRAD	FEL	visible	storage ring	France
798	BMSRAD	future accel.	requirements	new ideas	Switz
332	BMSRAD	gamma rays	coherent	REB-laser interac.	Italy
704	BMSRAD	gyrotron	trav. wave oscil.	nonlinear effects	UK
162	BMSRAD	heavy ion	accelerator	nuclear physics	France
486	BMSRAD	Hg lamp	time dependence	numerics	W Ger
788	BMSRAD	HIB	hollow beam trans.	strong focusing	W Ger
510	BMSRAD	high p lamp	temp. deter.	spectral line	Greece
448	BMSRAD	ion source	liquid metal	heating effects	UK
444	BMSRAD	keV electron	transport	Monte Carlo	Spain

Rec ID	Topic	KW1	KW2	KW3	Country
338	BMSRAD	lamp	Hg discharge	pressure measure	Greece
337	BMSRAD	laser accelerator	guide structure	IR pulses	Italy
261	BMSRAD	magnetic field	iron	Green's Function	UK
1163	BMSRAD	meson source	2 GeV accelerator	ASTOR	Switz
1150	BMSRAD	microstrip	dipole radiation	gyromagnet	Greece
385	BMSRAD	negative ions	Cs W surface	H minus	Nether
1133	BMSRAD	negative ions	rf accel	MEQALAC	Nether
161	BMSRAD	neutron	Fresnel	zone plate	France
950	BMSRAD	neutron beams	facilities	review	UK
1127	BMSRAD	neutron source	linear accel	scattering diag	UK
287	BMSRAD	neutrons	pulsed source	moderation	UK
163	BMSRAD	neutrons	SNS	components	UK
1149	BMSRAD	optical fiber	eccentric clad	symmetric modes	Greece
1161	BMSRAD	pion therapy	supercon magnet	progress report	Switz
426	BMSRAD	slow neutron	fibers	propagation	Spain
1192	BMSRAD	Smith Purcell rad.	electron beam	grating	Israel
376	BMSRAD	sodium lamp	high pressure	arcs	UK
422	BMSRAD	sodium lamp	high pressure	energy balance	UK
1214	BMSRAD	sodium lamps	acoustic res.	detection	Nether
951	BMSRAD	synch. rad.	facilities	review	Denmrk
943	BMSRAD	synch. rad.	undulator	development	UK
944	BMSRAD	synch. rad.	wiggler	measurements	UK
810	BMSRAD	synchrotron rad.	photo electrons	source character	France
802	BMSRAD	VUV plasma source	surfatron	microwave excited	France
803	BMSRAD	VUV standard	laser plasma	BESSY comparison	W Ger
796	BMSRAD	wakefield accel.	dynamics	simulation	W Ger
182	BMSRAD	wave packets	cosmic ray	trapped waves	Norway
249	BMSRAD	XUV	line source	tunable	W Ger
467	BMSRAD	2d beam	varying B-field	Brillouin flow	France
552	CHEMAT	catalyst	metal clusters	gasification	W Ger
1059	CHEMAT	CO2 processing	heat transfer	anal + expt.	Italy
13	CHEMAT	diffusion	aluminum	iron	Finlnd
1206	CHEMAT	e-beam litho	electroplate	MPQ devices	W Ger
15	CHEMAT	engine	internal combus.	model	Israel
268	CHEMAT	eroding surface	particle collision	machinery	UK
462	CHEMAT	etching	polymers	XeCl laser	UK
379	CHEMAT	gamma ray	spectroscopy	analytic	W Ger
615	CHEMAT	ignition hazard	rf radiation	assessment	UK
396	CHEMAT	isotope sep.	laser assisted	gas dynamic	Switz
1090	CHEMAT	laser	absorption waves	metal processing	Italy
11	CHEMAT	laser	applications	manufacturing	Italy
14	CHEMAT	laser	welding	CO2	UK
368	CHEMAT	laser	welding	penetration	UK
1083	CHEMAT	laser cutting	guided flow	bulk steel	Austri
1065	CHEMAT	laser cutting	inert gas assist	steel sheet	Italy
1064	CHEMAT	laser cutting	oxygen assisted	steel sheet	Italy
1055	CHEMAT	laser processing	beam target	review	W Ger
614	CHEMAT	laser processing	silicon	review	UK
1084	CHEMAT	laser treatment	alloy surface	parameters	Italy
432	CHEMAT	laser-driven	corrugations	liquid metals	W Ger
841	CHEMAT	lithography	excimer laser	ArF	UK
299	CHEMAT	melting	impact response	copper	UK

Rec ID	Topic	KW1	KW2	KW3	Country
1136	CHEMAT	neutron beam	material testing	review	UK
1126	CHEMAT	neutron beam	metallurgy	applications	UK
237	CHEMAT	neutron diffrac.	crystal orient.	weld material	UK
1152	CHEMAT	neutron reactions	metals	reactor material	Greece
18	CHEMAT	PECVD	nitride	deposition	Czech
16	CHEMAT	shock loaded	stresses	determination	France
489	CHEMAT	Si annealing	e-beam	thermal stress	Italy
765	CHEMAT	sub mm	FIR	industry appl.	UK
487	CHEMAT	thin films	plasma deposition	amorphous C	W Ger
1124	CHEMAT	torque converter	electroviscous	clutch	UK
20	CHEMAT	water splitting	photochemical	hydrogen	Switz
12	CHEMAT	zeolite	photoproduction	ammonia	UK
17	CHEMAT	zeolite	ZSM-5	structure	UK
68	COMPUT	AI	dataflow	processor	UK
71	COMPUT	AI	music	composing	UK
72	COMPUT	AI	voice recognition	Logos	UK
639	COMPUT	display	electrochromic	viologen based	UK
1121	COMPUT	display	large screen	laser projection	UK
403	COMPUT	dissipation	computers	limits	Austri
858	COMPUT	fluid code	Lagrang. rezone	flux correction	UK
69	COMPUT	graphics	3D modeling		UK
73	COMPUT	graphics	3D movie	haemoglobin	UK
70	COMPUT	image processing	speckle	fluid flow	Belgium
74	COMPUT	information	processing	limitations	UK
495	COMPUT	Monte Carlo	time scale	experiments	Denmrk
909	COMPUT	rad. hydro	adaptive mesh	shocks	W Ger
175	COMPUT	robot arm	CO2 laser		UK
75	COMPUT	robotics	laser	range finder	France
1155	COMPUT	software	acous tomography	signal processing	Greece
76	COMPUT	3D	display	laser on helix	W Ger
455	CPBICF	heat transport	steep gradient	non local	France
8	CPBICF	REB	enhanced deposit	k-alpha	Israel
535	CPBICF	ablation	laser-target	vs. wavelength	UK
851	CPBICF	ablative accel.	stability	rippled foils	UK
991	CPBICF	ablative flow	pellets	theory + expt	Spain
1028	CPBICF	ablative flow	planar targets	theory + expt	Spain
246	CPBICF	air	streamers	spark transition	France
984	CPBICF	Al plasma	line broadening	time resolved	UK
1216	CPBICF	annular z-pinch	gas puff	x-ray source	UK
780	CPBICF	annular z-pinch	plasma puff	x-ray source	France
617	CPBICF	Ar pos. column	low pressure	expt & model	Portug
555	CPBICF	arc plasma	SF6-N2	transport coef.	France
1002	CPBICF	back reflection	plastic foils	spectra	France
1045	CPBICF	beam-plasma	rad transport	numerics	Spain
1202	CPBICF	breakdown	air	water vapor	Nether
652	CPBICF	breakdown	elec. emission	nonlin. phenom	UK
1165	CPBICF	Brillouin scat	z-pinch plasma	theory + expt	W Ger
996	CPBICF	Brillouin scat.	damping mech.	ruby expt.	W Ger
575	CPBICF	carbon arc	CO2 laser	interaction	UK
980	CPBICF	carbon plasma	laser heated	ion profiles	W Ger
6	CPBICF	coronas	space charge	drift approx.	Norway
577	CPBICF	CO2 target	voltage generate	pulse shape det.	UK

Rec ID	Topic	KW1	KW2	KW3	Country
977	CPBICF	critical density	spectral diag.	non LTE	France
1143	CPBICF	current loop	optical	faraday rotation	Nether
854	CPBICF	dielec satellite	implosions	Si spectra	Ireland
855	CPBICF	dielec satellite	Si He-like	density dep.	UK
847	CPBICF	disc target	thermal smoothing	x-ray backlight	UK
186	CPBICF	discharge	surface	spectroscopy	France
284	CPBICF	double layer	insulator-liquid	interface	France
399	CPBICF	electron depos.	thin anode	K-alpha	Israel
247	CPBICF	electron emission	carbon fiber	cathodes	UK
999	CPBICF	electron transport	harmonic gen	foil accel.	W Ger
994	CPBICF	electron wave	acceleration	laser plasma	W Ger
242	CPBICF	EM wave	gas interaction	Stark mirror	Portug
473	CPBICF	EM waves	relativistic plas	solitions	W Ger
285	CPBICF	fast electrons	laser plasma	2D effects	W Ger
930	CPBICF	FEL	axial field	nonlin theory	Israel
929	CPBICF	FEL	guide field	dispersion rel.	Israel
686	CPBICF	FEL	guide field	elec. dynamics	France
791	CPBICF	FEL	microwave	REB quality	France
920	CPBICF	FEL	wiggler free	orbit eqns.	Israel
771	CPBICF	FEL	wiggler-free	nonlin. effects	Israel
149	CPBICF	fireball	generation	arc	Nether
1036	CPBICF	foil target	acceleration	0.26 micron expt	France
1032	CPBICF	foil targets	shock propagate	Nd glass expts	UK
833	CPBICF	framing camera	x-ray	electronics	UK
1037	CPBICF	framing camera	x-ray	sub ns	UK
180	CPBICF	fuse	exploded wire	arcing	Poland
181	CPBICF	fusion pellet	boron	advanced fuel	Israel
1167	CPBICF	gas puff	plasma formation	Stark broadening	W Ger
1029	CPBICF	harmonic emission	spectral anal	inhomo. model	Finlnd
997	CPBICF	harmonic emission	thin foils	1.06 micron expt	UK
1021	CPBICF	harmonic gen	fine structure	Nd glass expts	France
979	CPBICF	He plasma	laser heated	density profiles	Italy
1054	CPBICF	heat flow	ablation plasma	Fokker Planck	UK
1050	CPBICF	heat flow	ablation plasma	nonlinear	UK
849	CPBICF	heat flow	high gradient	laser scattering	UK
1053	CPBICF	heat flow	instabilities	high-z	UK
867	CPBICF	heat flow	instabilities	laser plasma	UK
975	CPBICF	heat flow	inverse brems.	Fokker-Planck	France
1052	CPBICF	heat flow	nonlocal	hybrid model	Israel
1051	CPBICF	heat flow	steep gradient	Fokker Planck	France
866	CPBICF	heat transport	Fokker-Planck	planar ablation	UK
864	CPBICF	heat transport	laser plasma	moment eqns.	UK
865	CPBICF	heat transport	Lorentz plasma	nonlinear	UK
423	CPBICF	heat transport	non-Maxwellian	steep gradient	Israel
415	CPBICF	heat transport	non-neutral	Vlasov-Poisson	Belgium
986	CPBICF	heat transport	spherical target	1.02 & .53 micron	UK
993	CPBICF	heat transport	steep gradient	numerics	France
906	CPBICF	HIB	pellet	caluclations	W Ger
1046	CPBICF	HIB targets	synchrotron expt	numerics	W Ger
4	CPBICF	HIF	emittance	space charge	W Ger
10	CPBICF	HIF	high gain	targets	W Ger
1195	CPBICF	HIF	overview		UK

Rec ID	Topic	KW1	KW2	KW3	Country
142	CPBICF	HIF	slowing down	charge state	Israel
1011	CPBICF	high Z targets	x-ray emission	code analysis	France
1020	CPBICF	high-Z plasma	ion emission	vs. wavelength	W Ger
1039	CPBICF	high-Z plasma	x-ray spectra	Nd glass expts	E Ger
968	CPBICF	implosion	pellet coating	effect of	France
969	CPBICF	implosion	plastic shells	x-radiography	UK
852	CPBICF	implosions	analysis	0.53 micron	UK
970	CPBICF	implosions	emission diagno	hot cores	UK
850	CPBICF	implosions	x-radiography	1.06 micron	UK
1038	CPBICF	intensifier	x-ray	50 ps	UK
618	CPBICF	ion acoustic	stim. Brillouin	harmonic theory	Switz
212	CPBICF	ion beam	pellets	shaped voltage	Israel
1024	CPBICF	ion beam target	Rayleigh Taylor	beam shaping	Israel
778	CPBICF	ion diode	gas filled	pseudo spark	W Ger
777	CPBICF	ion diode	self-B insul	beam character	W Ger
861	CPBICF	ion diposition	ablation plasma	analytics	UK
776	CPBICF	ion generation	carbon	laser heat anode	France
666	CPBICF	ion interaction	ICF targets	numerics	Spain
915	CPBICF	ion range	uranium	various solids	W Ger
283	CPBICF	ion source	liquid metal	space charge	UK
992	CPBICF	ion spectra	laser plasma	pulse analysis	W Ger
1198	CPBICF	ion stopping	dense plasma	random phase	France
1047	CPBICF	ion stopping	DT alphas	track detector	UK
1048	CPBICF	ion stopping	solid & plasma	model	UK
1010	CPBICF	K edge	preheat diagno	x-ray spectra	UK
9	CPBICF	laser	Rayleigh Taylor	target instab.	UK
413	CPBICF	laser	x-ray smoothing	layered targets	France
667	CPBICF	laser coupling	wave length dep	elec. temp.	Spain
1014	CPBICF	laser hydro	review	theory + expt.	France
987	CPBICF	laser interaction	electron waves	theory	W Ger
967	CPBICF	laser interaction	GRECO	review	France
998	CPBICF	laser interaction	hydro + EM	SUNION code	W Ger
982	CPBICF	laser plasma	chaos	wave coupling	France
814	CPBICF	laser plasma	Cu-like lines	rare earths	Israel
1034	CPBICF	laser plasma	diagnostics	HELEN facility	UK
229	CPBICF	laser plasma	electron trans.	ion waves	UK
211	CPBICF	laser plasma	expansion	diffusion	Israel
1049	CPBICF	laser plasma	experiments	review	Italy
844	CPBICF	laser plasma	filamentation	backscatter	UK
843	CPBICF	laser plasma	harmonic emission	526 nm pump	UK
437	CPBICF	laser plasma	ion turbulence	dynamics	France
907	CPBICF	laser plasma	mode conversion	inhomo analysis	W Ger
567	CPBICF	laser plasma	non LTE	brems. emission	France
456	CPBICF	laser plasma	nonlinear waves	Brillouin scat.	W Ger
570	CPBICF	laser plasma	refrac & absorb	ray optics	UK
1015	CPBICF	laser plasma	review	compression	UK
236	CPBICF	laser plasma	Schlieren	diagnostic	France
623	CPBICF	laser plasma	self focusing	numerics	UK
1025	CPBICF	laser plasma	soft x-ray	refractometry	France
1003	CPBICF	laser plasma	x-ray absorption	density measure	France
1026	CPBICF	laser plasma	x-ray emission	perspex model	Switz
517	CPBICF	laser target	compression	polymer shell	UK

Rec ID	Topic	KW1	KW2	KW3	Country
511	CPBICF	laser target	compression	uniformity	UK
367	CPBICF	laser target	hot electron	deposition	W Ger
243	CPBICF	laser target	ionization	algorithm	France
288	CPBICF	laser target	ionization	computer code	UK
974	CPBICF	laser target	magnetic field	Faraday rotation	France
436	CPBICF	laser-pellet	corona	flux saturation	Spain
626	CPBICF	leader discharge	SF6	model	Switz
1044	CPBICF	LIB	generation	focusing expts	W Ger
7	CPBICF	LIB	slowing down	plasma target	Israel
775	CPBICF	LIB	target interac.	Sidonix II expt	France
995	CPBICF	light scattering	solid target	spectra	W Ger
1196	CPBICF	lightening	vulnerability	aircraft	UK
817	CPBICF	line broadening	dense plasma	Thomas-Fermi	Israel
578	CPBICF	line radiation	non-LTE	transfer theory	UK
303	CPBICF	liquid metal	ion source	emitter shape	UK
245	CPBICF	metal arc	cathode	model	Bulgar
1016	CPBICF	microballoon	compression	plasma expansion	Poland
1033	CPBICF	microballoon	compression diag	alpha tracks	UK
1031	CPBICF	microballoon	harmonic imaging	x-ray imaging	UK
1030	CPBICF	mode conversion	Raman scattering	simulation	UK
831	CPBICF	multi-beam	illumination	uniformity	UK
988	CPBICF	multilayer target	plasma spectra	vs. wavelength	France
1022	CPBICF	multilayer target	spectra	numerics	France
965	CPBICF	muon catalyzed	polarized	ICF feasibility	Switz
576	CPBICF	nitrogen arc	atm pressure	non LTE expts	France
1007	CPBICF	nonuniformity	illumination	hydro effects	UK
574	CPBICF	nozzle arcs	wall ablation	dc expts	UK
869	CPBICF	opacity	LTE	calculations	UK
451	CPBICF	opening switch	optical	neon discharge	Israel
962	CPBICF	particle beam	transport	analytics	Yugos
961	CPBICF	pellet gain	superthermals	numerics	Switz
1008	CPBICF	planar foil	acceleration	numerics	W Ger
1013	CPBICF	planar plastic	x-ray emission	PIN diode array	Switz
971	CPBICF	planar target	ablative	wavelength dep	France
990	CPBICF	planar target	harmonic gen.	Nd glass expt	France
1012	CPBICF	planar target	x-ray emission	vs wavelength	France
1009	CPBICF	planar target	x-ray emission	vs. wavelength	France
856	CPBICF	planar targets	Stark broadening	SiO2 & CH	UK
414	CPBICF	plasma focus	collapse	dynamics	W Ger
960	CPBICF	plasma focus	deut. emission	energy & angle	Poland
431	CPBICF	plasma focus	e-beams	ps modulation	W Ger
902	CPBICF	plasma focus	electron beam	mm waves	W Ger
214	CPBICF	plasma focus	fast bank	dynamics	W Ger
1180	CPBICF	plasma focus	high speed	polarity effects	W Ger
959	CPBICF	plasma focus	neutrons	ion emission	W Ger
532	CPBICF	plasma focus	self-organization	min. energy	W Ger
848	CPBICF	plasma stopping	alpha particles	dt microballoon	UK
774	CPBICF	plasma targets	cp interactions	deposition calc	Israel
506	CPBICF	plasma thruster	arc electrodes	development	W Ger
1006	CPBICF	plastic foil	acceleration	1.3 & 0.44 micron	W Ger
1040	CPBICF	polymer target	laser etching	UV lithography	UK
846	CPBICF	polymer targets	x-ray spectra	compression expt	UK

Rec ID	Topic	KW1	KW2	KW3	Country
862	CPBICF	preheat	x-ray	effect on implo.	UK
548	CPBICF	propulsion	discharge dynamics	stability	W Ger
1027	CPBICF	rad transport	implosions	microballoons	UK
868	CPBICF	rad transport	Planckian	LTE	UK
1004	CPBICF	rad. hydro	high Z	ld code	Czech
1023	CPBICF	radiation	average ion	numerics	Czech
782	CPBICF	radiography	erosion switch	Grec facility	France
863	CPBICF	Raman scattering	es particle code	kinetic theory	UK
976	CPBICF	Raman scattering	ion fluctutations	WKB model	Finlnd
859	CPBICF	Rayleigh Taylor	flat target	numerics	UK
1128	CPBICF	REB	angular dist.	radial profile	Nether
790	CPBICF	REB	beam quality	Thomson scat.	France
789	CPBICF	REB	collective accel.	diagnostic	Israel
787	CPBICF	REB	drift injection	analytics	E Ger
554	CPBICF	REB	drift velocity	measurements	Israel
264	CPBICF	REB	enhanced stopping	applied B-field	Israel
781	CPBICF	REB	generator	compact 100 kV	Israel
1137	CPBICF	REB	injection	neutral H2	Nether
265	CPBICF	REB	ion acceleration		UK
1141	CPBICF	REB	LF instability	neutralized	Nether
792	CPBICF	REB	microwave	rippled field	Israel
356	CPBICF	REB	neutralized	stability	Israel
655	CPBICF	REB	scattering	turbulent plamsa	Nether
270	CPBICF	REB	source	thermionic	Israel
786	CPBICF	REB Star Wars	plasma channel	experiment	France
785	CPBICF	REB Star Wars	plasma channel	numerics	France
530	CPBICF	REB-EM wave coup	plasma equilib	microwaves	Bulgar
604	CPBICF	res. absorption	density profile	self consistant	France
978	CPBICF	res. absorption	steep gradient	capacitor model	France
624	CPBICF	scattering	test particle	random phase	UK
509	CPBICF	SF6	breakdown	inhomo gaps	Switz
983	CPBICF	smoothing	foil targets	vs. wavelength	UK
1005	CPBICF	smoothing	layered target	0.35 micron expt	France
643	CPBICF	soliton	laser pulse	plasma propagate	W Ger
523	CPBICF	spark discharge	air & SF6	Schlieren photo	France
845	CPBICF	spherical target	fast electrons	1.05 micron	UK
1000	CPBICF	spherical target	Rayleigh Taylor	laser etched	UK
622	CPBICF	stim. Brillouin	backscattering	prevention	France
989	CPBICF	superthermals	transport	CO2 laser	France
895	CPBICF	switching	trig. discharge	optical diag.	W Ger
832	CPBICF	target production	microballoon	laser etched	UK
857	CPBICF	target x-rays	EXAFS spectra	of Al	UK
860	CPBICF	thermal smoothing	heat flux limit	analytics	UK
1018	CPBICF	thin foil	acceleration	optical measure	France
207	CPBICF	vacuum arc	anode region	multi spot	Israel
281	CPBICF	vacuum arc	cathode spot	motion	Nether
384	CPBICF	vacuum arc	zinc	spectroscopy	Israel
813	CPBICF	VUV emission	Al plasma	calculated	France
783	CPBICF	wire plasma	x-ray lif.	Sidonix I	France
834	CPBICF	x-ray intensifer	gated	50 ps resolution	UK
1035	CPBICF	x-ray pulses	plasma mirrors	superradiant	Czech
630	CPBICF	z-pinch	gas embedded	laser initiated	UK

Rec ID	Topic	KW1	KW2	KW3	Country
779	CPBICF	z-pinch	gas embedded	x-ray init.	France
1173	CPBICF	z-pinch	laser scattering	theory + expt	W Ger
972	CPBICF	z-pinch	spectroscopy	non-Debye	UK
328	DIAGNO	aerodynamics	flow visualization	optical	France
99	DIAGNO	aerosols	photoelectrons	Hg arc	Switz
205	DIAGNO	atom bombardment	mass spectroscopy	FABMS	UK
103	DIAGNO	atomic beams	scattering	vibrations	Nether
104	DIAGNO	atomic beams	scattering	vibrations	Spain
102	DIAGNO	atomic beams	scattering	vibrations	W Ger
714	DIAGNO	bolometer	semiconductor	elec-ther. model	France
276	DIAGNO	channel plate	x-ray	efficiency	UK
85	DIAGNO	chemical micro.	photoelectron	energy resolved	UK
445	DIAGNO	cold neutron	radiography	grain size	UK
110	DIAGNO	contact image	energy transfer	100 nm	W Ger
107	DIAGNO	CR39	track detector	medicine & tech.	UK
94	DIAGNO	desorption	spectrometer	crystal	Belgium
568	DIAGNO	e-beam scan	Joshephson junc	imaging	W Ger
88	DIAGNO	electron	absorp. spectra.	corrosion	UK
95	DIAGNO	electron	monochrometer	low voltage	Italy
613	DIAGNO	electron micro	surface imaging	metal particles	UK
84	DIAGNO	electron micro.	imaging	tunnel current	Switz
93	DIAGNO	electron micro.	tunneling	topography	Switz
505	DIAGNO	energetic part.	spectrometer	satellite	W Ger
588	DIAGNO	far UV astron.	mirrors	coatings	UK
572	DIAGNO	fiber size	forward scat	eikonal approx	UK
764	DIAGNO	FIR interfer.	Fabry-Perot	grating spec.	France
746	DIAGNO	FIR interfer.	small gap semis	magneto-optics	Austri
378	DIAGNO	flowmeter	electromagnetic	pulsed	UK
274	DIAGNO	gyrocompass	NMR		UK
100	DIAGNO	holography	binary liquid	diffusion	Poland
105	DIAGNO	holography	gratings	profile model	Sweden
178	DIAGNO	holography	nondestructive	testing	UK
176	DIAGNO	holography	nuclear reactors		UK
86	DIAGNO	holography	vibration	Doppler effect	UK
87	DIAGNO	holography	10 ps pulse	wavefront	Sweden
177	DIAGNO	holography	3d	tomography	UK
720	DIAGNO	interferometer	refrac. index	mm wavelength	UK
709	DIAGNO	IR radiography	liq. interface	imaging	France
369	DIAGNO	Kerr cell	shutter	femtosecond	France
330	DIAGNO	laser	velocimetry	wind tunnels	France
446	DIAGNO	laser-Doppler	droplet sizing		France
440	DIAGNO	laser-Doppler	interferometry	high velocity	Israel
460	DIAGNO	laser-Doppler	multicolor	entrained drops	UK
301	DIAGNO	light scattering	fiber sizing	approximations	UK
1138	DIAGNO	mass spectra	laser desorption	thermal effects	Nether
101	DIAGNO	microscope	confocal	surface profile	UK
342	DIAGNO	microscopy	acoustic	gas coupling	UK
340	DIAGNO	microscopy	tunneling	surface contour	Switz
106	DIAGNO	neutrons	industry	applications	UK
89	DIAGNO	NMR	medicine	meeting report	UK
916	DIAGNO	nuclear probe	laser light	unstable nuclei	UK
90	DIAGNO	optical fibers	stress cracks	marine structures	UK

Rec ID	Topic	KW1	KW2	KW3	Country
691	DIAGNO	photon drag	IR detectors	InSb	UK
632	DIAGNO	phototelec. micro	x-ray & atom	image generators	UK
687	DIAGNO	polychromator	far IR	conical diff.	Nether
329	DIAGNO	Raman scattering	gases	temp. and density	France
271	DIAGNO	refractive index	complex	thin films	UK
401	DIAGNO	SAW	cylin. focusing	nondestruc test	France
228	DIAGNO	SAW	microscope	confocal	UK
1215	DIAGNO	soft x-ray	bolometer	thin film	W Ger
408	DIAGNO	soft x-ray	microscopy	collaboration	UK
565	DIAGNO	soft x-ray	optics	multilayer films	UK
97	DIAGNO	spectrometer	deuterium	water	W Ger
740	DIAGNO	spectroscopy	moving mirror	FIR to VUV	UK
335	DIAGNO	surface studies	scanning optics	response	UK
222	DIAGNO	thermal waves	flaws	stereoscopic	W Ger
499	DIAGNO	thermometry	CARS	auto engines	Italy
507	DIAGNO	thin film	in situ measure	development	France
734	DIAGNO	tunable filter	Fabry-Perot	FIR	Italy
668	DIAGNO	tunnel micro	gold	model for expt.	Spain
293	DIAGNO	ultrasonic	diffraction	periodic surface	France
275	DIAGNO	ultrasonic	transmission	Rayleigh wave	UK
804	DIAGNO	VUV focusing	deformed grating	grazing inc.	Sweden
806	DIAGNO	VUV optics	contam. films	topography	Sweden
108	DIAGNO	x-ray	detector	satellite	UK
92	DIAGNO	x-ray	energy	electron counting	UK
117	DIAGNO	x-ray	gratings	astronomy	W Ger
96	DIAGNO	x-ray	interferometer	crystal	W Ger
116	DIAGNO	x-ray	microscope	synchrotron	W Ger
109	DIAGNO	x-ray	microscopy	synchrotron	UK
407	DIAGNO	x-ray	microscopy	synchrotron rad	UK
111	DIAGNO	x-ray	mirrors	testing	UK
112	DIAGNO	x-ray	mirrors	testing	UK
113	DIAGNO	x-ray	mirrors	testing	W Ger
98	DIAGNO	x-ray	scanning	radiography	France
114	DIAGNO	x-ray	scattering	chloroplast	W Ger
118	DIAGNO	x-ray	scattering	optical flats	W Ger
119	DIAGNO	x-ray	sources	testing	W Ger
91	DIAGNO	x-ray	waveguide	imaging	W Ger
115	DIAGNO	x-ray	zone plate	microscopy	W Ger
809	DIAGNO	XUV	wavelength deter	crystal property	Israel
1134	DIAGNO	XUV	windows	fabrication	Nether
805	DIAGNO	XUV grating	overlap contam.	EM theory	France
808	DIAGNO	XUV monochrometer	synchrotron rad.	characteristics	W Ger
807	DIAGNO	XUV spectrometer	multichannel	time resolved	Israel
26	ENERGY	acid rain	nitrates	historical	UK
1132	ENERGY	air pollution	analysis	ion source	Nether
363	ENERGY	atmospheric CO2	ice core	isotope data	UK
279	ENERGY	automobile	microwave	engine timing	UK
19	ENERGY	CO2	global model	predictions	UK
225	ENERGY	electrokinetic	energy conversion	liquid mixture	Spain
28	ENERGY	electromechanical	energy	magnetic field	France
550	ENERGY	geothermal	hot rocks	water injection	UK
380	ENERGY	hot water	storage	dynamics	Sweden

Rec ID	Topic	KW1	KW2	KW3	Country
51	ENERGY	isotope separation	uranium	CF4 and CO2	Israel
277	ENERGY	liquid	electrolyte	solar cells	UK
25	ENERGY	oil pollution	polymer	solidification	UK
586	ENERGY	photochem convert	yield limits	effect of climate	Italy
289	ENERGY	photovoltaic	conversion eff.	formula	Belgium
27	ENERGY	photovoltaic	review	energy	Belgium
174	ENERGY	plastic sand	water retention	desert reclaim	UK
21	ENERGY	pollution	detector	trout	France
931	ENERGY	pollution	magnetic part.	new measure	UK
24	ENERGY	purple membrane	solar energy	bacteria	Israel
23	ENERGY	solar ponds	house heating		UK
255	ENERGY	tritium	separation	resonance rad.	UK
381	ENERGY	water trees	power cables	neutron analysis	UK
248	ENERGY	wave power	Sea Clam	funding	UK
29	ENERGY	wind power	turbine	national grid	UK
551	ENERGY	wind turbine	vertical axis	Carmarthen Bay	UK
410	HYDROD	acoustic	Brillouin scat.	supercooled water	Italy
1135	HYDROD	acoustic waves	laser generated	solid diagnosis	UK
1001	HYDROD	Al foils	shock waves	laser expts	France
83	HYDROD	Antarctic	ice sheet	model	Nether
1069	HYDROD	atmos. breakdown	aerosols	hydro model	France
748	HYDROD	Benard convec.	temp. dist.	IR camera	France
878	HYDROD	bifurcation	Rayleigh-Benard	large cells	Israel
595	HYDROD	binary alloy	melt	hydro. stability	UK
307	HYDROD	blast waves	flow field	dust and water	Israel
474	HYDROD	boundary layer	strained	expt. and theory	France
189	HYDROD	burning	propellants	velocimetry	Italy
472	HYDROD	channel flow	oscillating	constriction	UK
78	HYDROD	chaos	acoustic	cavitation	W Ger
877	HYDROD	chaos	elechdro instab.	ion + dielec liq	France
876	HYDROD	chaos	Taylor-Couette	rotating flow	W Ger
151	HYDROD	chaos	temperature	Rayleigh-Benard	Italy
885	HYDROD	chaos	thermosolutal	convection model	UK
327	HYDROD	corner flows	numerics		France
393	HYDROD	Couette flow	Taylor vortices	numerics	W Ger
481	HYDROD	detonation	blast waves	kinematics	UK
1130	HYDROD	diffusion	suspensions	3-body hydro	Nether
314	HYDROD	diffusion eqns.	travelling waves	moving boundary	UK
671	HYDROD	diffusion flame	extinction	asympt. theory	Spain
82	HYDROD	electrohydro	stability	thermal grad.	Spain
478	HYDROD	evaporation	metals	1D simulation	Israel
476	HYDROD	flame	dynamics	laser diagno	France
1087	HYDROD	flow mixing	trip jets	visualization	Belgium
358	HYDROD	fluid layer	bounded	dynamics	Israel
241	HYDROD	friction	rubber	ice	UK
525	HYDROD	gas centrifuge	couette flow	integral eqn	UK
631	HYDROD	gas diffu. column	steady state	simplified	Spain
647	HYDROD	gas motion	absorbing wall	1d Boltzmann	Norway
323	HYDROD	gas-droplet	liquid spray	cooling towers	Belgium
596	HYDROD	intermittency	near wake	cylin expts.	France
879	HYDROD	intermittency	Payleigh-Benard	confined geo.	France
1108	HYDROD	internal waves	stratified	finite depth eqn	Italy

Rec ID	Topic	KW1	KW2	KW3	Country
594	HYDROD	laminar flow	rotating pipe	numerics	UK
1019	HYDROD	laser craters	hypervel. impact	simulation	France
1085	HYDROD	laser interaction	metal vapor	gas dynamics	Italy
1068	HYDROD	laser interaction	target response	reduced atmos.	France
424	HYDROD	Laser-Doppler	anemometry	turbulent struc	UK
492	HYDROD	liquid metal	blow off	two phase	W Ger
670	HYDROD	mixing layer	cine film	computer analysis	Spain
669	HYDROD	mixing layer	3d effects	water tunnel	Spain
79	HYDROD	ocean floor	conductivity	EM sounding	UK
260	HYDROD	Rayleigh-Benard	convection	transient order	France
388	HYDROD	Rayleigh-Taylor	bubble motion	nonlinear	W Ger
537	HYDROD	Rayleigh-Taylor	electrohydro	nonlinear	Egypt
621	HYDROD	relativistic gas	distribution func	kinetic theory	Italy
336	HYDROD	ring vortex	turbulent	behavior	W Ger
634	HYDROD	Scholte wave	Rayleigh wave	wetting & angle	France
471	HYDROD	sea ice	acceleration	effect on growth	UK
81	HYDROD	sea ice	dielectric const.	high frequency	Norway
77	HYDROD	sea water	eqn. of state	high pressure	UK
442	HYDROD	shallow waves	canonical form	Hamiltonian	Turkey
400	HYDROD	shaped charges	optimization	analytics	Norway
513	HYDROD	shear flow	strong rotation	free-molecular	UK
493	HYDROD	shear flow	turbulence	spectra	France
291	HYDROD	shear layer	transonic flow	laser anemometer	UK
904	HYDROD	shear layers	curved	2-eqn turbulence	W Ger
1209	HYDROD	shock waves	laser driven	metal targets	France
559	HYDROD	solitons	fluid in tubes	nonlin wave eqn	W Ger
1114	HYDROD	solitons	internal waves	Andaman Sea	Italy
573	HYDROD	Stokes flow	fibrous filters	variational prin	UK
539	HYDROD	strong shocks	relativistic	damping	Italy
464	HYDROD	surface waves	visco-elastic	theory	Spain
629	HYDROD	Taylor diffusion	sedimentation	laminar flow	Belgium
1122	HYDROD	test facility	ship hulls	water channel	UK
608	HYDROD	turb. transport	rotating sys.	helicity	UK
1125	HYDROD	turbulence	boundary layer	velocity probe	UK
1123	HYDROD	turbulence	pipe flow	hull roughness	UK
389	HYDROD	turbulence	small-scale	experiments	W Ger
390	HYDROD	turbulence	transition	boundary layer	UK
219	HYDROD	turbulent	wake	evolution	France
267	HYDROD	turbulent flow	electric current	dielectrics	UK
326	HYDROD	turbulent mixing	reacting flows	numerics	France
533	HYDROD	ultrasonic	scattering	guided waves	France
453	HYDROD	ultrasonic waves	diffraction	interface	Belgium
938	HYDROD	viscous flow	instability	down slope	UK
494	HYDROD	vortex pairing	low-Re jet	velocimetry	Belgium
430	HYDROD	vortex shedding	spinning cylinder	experiments	Spain
250	HYDROD	water	conductivity	high pressure	W Ger
145	HYDROD	water wave	evolution	instability	W Ger
306	HYDROD	water wave	solitons	finite wave no.	W Ger
502	HYDROD	water-ice	friction	effect of liquid	Norway
22	HYDROD	wave power	focusing	bay contour	Norway
30	HYDROD	wave power	oscillating	water column	UK
1071	LASERS	Ar-Kr	VUV emission	kinetics	France

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Country</u>
482	LASERS	atomic Hg	gain	spectroscopy	UK
829	LASERS	beam diagnostic	energy monitor	profile imaging	UK
1086	LASERS	beam profile	thermography	expt & theory	Italy
316	LASERS	bifurcation	gas laser	chaotic behavior	Italy
884	LASERS	bifurcation	optical reson.	CO2 pumped	UK
184	LASERS	bistability	Fabry-Perot	quadratic	W Ger
1144	LASERS	bistability	saturable absorb	limit cycle	Spain
286	LASERS	cavity density	perturbations	hydrodynamics	UK
148	LASERS	chaos	bistable cavity	numerics	UK
395	LASERS	chaos	optical cavity	numerics	UK
547	LASERS	chemical	O2-heavy metal	visible cw	Israel
770	LASERS	CH3OH	and isotopes	FIR spectra	Italy
725	LASERS	CH3OH	CO2 pumped	new FIR line	Italy
706	LASERS	CH3OH	CO2 pumped	Stark effect	France
769	LASERS	CH3OH	FIR lines	optically pumped	Denmrk
302	LASERS	CO	additive gases	plasma effects	UK
41	LASERS	CO	gas mixing	modeling	Israel
839	LASERS	compression	stim Brill scat	phase conjugate	UK
830	LASERS	control	data acquisition	energy monitor	UK
39	LASERS	CO2	charge circuits	performance	UK
452	LASERS	CO2	corona discharge	optimization	Italy
483	LASERS	CO2	e-beam pumped	thermal defoc.	UK
320	LASERS	CO2	H2 buffer	repetitive	UK
40	LASERS	CO2	impedance	fluctuations	Poland
351	LASERS	CO2	lifetime	miniature	Italy
1078	LASERS	CO2	microwave excited	cw performance	W Ger
273	LASERS	CO2	mode structure	plane resonator	UK
1077	LASERS	CO2	nozzle mixing	semi-empirical	W Ger
190	LASERS	CO2	polarization	injection-locked	UK
183	LASERS	CO2	pulsed	efficiencies	UK
1089	LASERS	CO2	research	matter processing	W Ger
611	LASERS	CO2	self absorption	runaway	UK
269	LASERS	CO2	stabilization	Stark effect	UK
1079	LASERS	CO2	subsonic	rf excitation	W Ger
350	LASERS	CO2	synchronization	phase locking	Austri
53	LASERS	CO2	TE	photoionization	UK
43	LASERS	CO2	TE	spark arrays	UK
461	LASERS	CO2	waveguide	rf excited	UK
711	LASERS	CO2	20 atm	e-beam preion	W Ger
1062	LASERS	CO2 CW	industrial	10 KW	UK
1061	LASERS	CO2 TE	CW highpower	flow effects	Italy
484	LASERS	CO2 waveguide	capillary	rf discharge	Ireland
772	LASERS	CO2 waveguide	tunability	diff. grating	Ireland
726	LASERS	CW DCOF	CO2 pumped	FIR lines	W Ger
724	LASERS	CW MIR	CO2 pumped	NH3 model + expt	France
1058	LASERS	DF	spectral output	floures. expts	W Ger
44	LASERS	DIMER	NA2	operation	Switz
549	LASERS	diode amplifier	optical & elec	sensors	Ireland
828	LASERS	disc system	development	commissioning	UK
757	LASERS	distrib feedback	dispersion rel.	theory	Switz
758	LASERS	distrib feedback	helical waveguide	optically pumped	Switz
298	LASERS	distributed	feedback	gas	Switz

Rec ID	Topic	KW1	KW2	KW3	Country
466	LASERS	dye	photon stat.	non-Markovian	W Ger
42	LASERS	dye	photon statistics	model of expt.	W Ger
710	LASERS	D20	FIR lines	CO2 pumped	W Ger
1181	LASERS	D20	high power	CO2 pumped	Switz
1189	LASERS	D20	oscillators	comparisons	Switz
755	LASERS	D20	performance	effect of buffer	Switz
1063	LASERS	elec discharge	turbulent flow	stochastic model	Israel
842	LASERS	excimer	saturable absorb	anthracene	UK
193	LASERS	excitation	line profiles	self reversed	UK
713	LASERS	FIR	freq. measure	RF beating	Italy
756	LASERS	FIR	high power	multi modes	Switz
754	LASERS	FIR	optically pumped	stability	France
727	LASERS	FIR molec	transients	dynamic model	France
759	LASERS	FIR waveguide	outcoupling	under 40 micron	Nether
556	LASERS	flashlamps	excimers	TlI pump	Switz
240	LASERS	focusing	optics	multiwavelength	UK
1070	LASERS	freq. tripling	laser excited	Xenon	France
518	LASERS	GaAs-GaAlAs	optical pump	short pulse	UK
48	LASERS	gamma ray	optically pumped	theory	Roman
1088	LASERS	gas dynamic	expansion nozzle	array design	Israel
1076	LASERS	gas dynamic	optical cavity	analytics	Poland
1194	LASERS	gas mixtures	electron attach	chlorine donors	Israel
47	LASERS	HCl	vibrational	Ar/HCl mixture	Israel
900	LASERS	He Ar	HIB pumped	100 MeV Sulpher	W Ger
587	LASERS	He-I	hollow cathode	operation	UK
766	LASERS	HeNe	chaos	experiments	W Ger
213	LASERS	HF	supersonic	pulsed	Israel
524	LASERS	HgBr & HgI	TE discharge	performance	UK
50	LASERS	IR	CF4	optically pumped	UK
1080	LASERS	IR	waveguides	dielec. coated	Italy
638	LASERS	KrCl excimer	discharge pumped	performance	Italy
404	LASERS	KrF	e-beam pumped	kinetics	Nether
837	LASERS	KrF	long pulse	pulse form line	UK
835	LASERS	KrF	REB excited	Sprite	UK
46	LASERS	levitation	.1 mm spheres	argon 1-10 W	France
728	LASERS	liq. N2	FIR spectra	compressed	France
712	LASERS	molecular gas	mid-IR	optically pumped	UK
562	LASERS	Na-dimer	supersonic	optically pumped	W Ger
767	LASERS	NH3	ground state	FIR gain calc	W Ger
334	LASERS	nitrogen	high power	discharge	Italy
272	LASERS	N2	waveguide	high rep rate	Italy
768	LASERS	N2O	bistability	Q-switching	W Ger
359	LASERS	optical bistab.	Fabry-Pero	rad. pressure	W Ger
1066	LASERS	oxy-iodine	cw chemical	compact	Israel
838	LASERS	phase conjugate	Brillouin mirror	KrF	UK
405	LASERS	phase conjugate	mirrors	review	UK
836	LASERS	pulse compression	Raman amplifier	multiplexing	UK
1060	LASERS	pulsed discharge	charging system	high rep rate	Israel
1057	LASERS	resonators	high power design	integral eqn.	W Ger
1072	LASERS	resonators	tapered reflec.	numerics	Italy
488	LASERS	rf waveguide	voltage distrib	TL theory	UK
1205	LASERS	ring cavity	molecular gas	hysteresis	UK

Rec ID	Topic	KW1	KW2	KW3	Country
1201	LASERS	ring resonator	bistability	solitons	W Ger
637	LASERS	semiconductor	bistability	hysteresis	Ireland
52	LASERS	semiconductor	picosecond pulses	GaAs DH laser	W Ger
188	LASERS	semiconductor	waveguide	mode spectrum	W Ger
719	LASERS	solid state	IR and FIR	elec. pumped	Austria
1067	LASERS	supersonic HF	high rep rate	performance	Israel
292	LASERS	transmission	sea water	attenuation coeffs.	France
1075	LASERS	turbulent mixing	laser cavity	numerics	France
209	LASERS	two frequency	three level	modulation	Israel
45	LASERS	two photon	Lithium vapor	dye laser excited	W Ger
840	LASERS	UV	facility	320-980 nm	UK
799	LASERS	VUV	res. enhanced	tunable	France
800	LASERS	VUV	tunable	Stim. Raman scat.	W Ger
824	LASERS	VUV	tunable	upconversion	W Ger
282	LASERS	white light	He-Cd	three color	UK
1073	LASERS	x-ray	Al recomb.	inversion	France
1042	LASERS	x-ray	carbon recomb.	gain calc.	E Ger
853	LASERS	x-ray	carbon recomb.	gain measure	UK
1043	LASERS	x-ray	carbon recomb.	gain measure	UK
973	LASERS	x-ray	laser plasma	photoexcitation	Ireland
1081	LASERS	x-ray	plasma recomb.	scaling laws	W Ger
981	LASERS	x-ray	rad. transport	numerics	UK
362	LASERS	XeCl	pumped fiber	Raman conversion	Italy
1082	LASERS	XeCl	x-ray preion.	high rep. rate	France
662	LASERS	XeCl TEA	grating res.	spec. narrowing	Italy
1074	LASERS	XeF excimer	long. discharge	352 nm	Switz
49	LASERS	XUV	carbon	recombination	UK
515	PLASMA	turbulence	diagnosis	forward scat.	UK
1171	PLASMA	Alfven waves	nonlinear	propagation	W Ger
1165	PLASMA	Alfven waves	plasma heating	tokamak	Switz
135	PLASMA	Alfven waves	turbulence	magnetosphere	W Ger
661	PLASMA	alpha particle	confinement	polarized DT	Italy
377	PLASMA	arc	unipolar	simulation	W Ger
1197	PLASMA	argon	e-beam excited	elec distrib	France
954	PLASMA	blankets	neutronic code	KFA expt. compar	Poland
491	PLASMA	boundary layer	instability	analysis	Israel
600	PLASMA	charge-exch.	neutral tof	Tortur II	Nether
138	PLASMA	collisions	multipole	fast electrons	UK
305	PLASMA	confinement	neutral heating	ASDEX	W Ger
534	PLASMA	convection	viscous effect	interchange	France
434	PLASMA	convective cells	drift waves	nonlinear	W Ger
540	PLASMA	convective cells	external excite	evolution	Denmrk
231	PLASMA	coupling	ion cyclotron wave	impedance	W Ger
527	PLASMA	current coupling	ECRH and ohmic	Fokker-Planck	UK
120	PLASMA	dense	quantum mech.	oscil. strength	E Ger
516	PLASMA	density clamp	neutral heating		UK
736	PLASMA	density fluc.	CO2 probe	Tosca tokamak	UK
737	PLASMA	density fluc.	forward scat.	detector array	W Ger
202	PLASMA	diagnostic	laser scat.	ASDEX	W Ger
827	PLASMA	diagnostics	x-ray & VUV	tokamaks	Israel
235	PLASMA	diatomic	hydrodynamics	Boltzmann Eqn.	France
206	PLASMA	diffuse pinch	minimum energy		UK

Rec ID	Topic	KW1	KW2	KW3	Country
122	PLASMA	diffusion	Fokker-Planck	boundary condition	Norway
1177	PLASMA	diffusion	high B-field	guiding center	W Ger
215	PLASMA	diffusion	multipole	2D model	France
147	PLASMA	discharge	hollow cathode	magnetron	Yugos
127	PLASMA	discharge	longitudinal waves	cathode	Bulgar
128	PLASMA	discharge	microwave	diagnostic	Italy
3	PLASMA	disruption	Alfven waves	tokamak	Switz
897	PLASMA	disruption	anom. resistance	mag. turbulence	W Ger
468	PLASMA	disruption	driftwave	transport	W Ger
905	PLASMA	disruption	tearing mode	evolution	W Ger
599	PLASMA	disruptions	TFR tokamak	expt + model	France
454	PLASMA	divertor	magnetic	axisymmetric	France
290	PLASMA	double layer	high voltage	magnetized	Sweden
538	PLASMA	double layer	ion acoustic	KdV equation	France
266	PLASMA	double layer	ionization	numerical	Sweden
230	PLASMA	double layer	steady state	analysis	W Ger
129	PLASMA	drift velocity	Lorentz gas	Boltzmann Eqn.	Norway
1156	PLASMA	drift waves	argon discharge	rf heated	Greece
361	PLASMA	drift waves	KdV equation	k-spectrum	W Ger
898	PLASMA	drift waves	nonlinear	KdV eqn.	W Ger
1159	PLASMA	drift waves	spectra	magnetic shear	W Ger
374	PLASMA	drift waves	turbulence	low beta	Denmrk
605	PLASMA	D2 pellet	vaporization	tokamak	Denmrk
449	PLASMA	EC emission	measurements	DITE tokamak	UK
693	PLASMA	EC emission	tokamaks	op. thin model	France
438	PLASMA	ECH waves	emit. and absorb.	rf tokamak	France
571	PLASMA	ECRH drive	local absorp	Fokker-Planck	UK
544	PLASMA	electro-hydro	quantum mech	micro. eqns.	UK
197	PLASMA	electromagnetic	beam-plasma	waves	W Ger
692	PLASMA	electron temp	ECR absorb	FIR transmit	France
133	PLASMA	electron-beam	filaments	turbulence	Sweden
121	PLASMA	electron-hole	diffusion	magnetostatic	W Ger
131	PLASMA	electron-hole	high temperature	instability	France
531	PLASMA	electrostatic	modes in torus	numerics	Austri
233	PLASMA	electrostatic	nonlinear wave	mode conversion	W Ger
1	PLASMA	EM waves	dispersion	variational prin.	Nether
1168	PLASMA	energy principle	kinetic	2d theory	W Ger
664	PLASMA	energy transport	ohmic heating	scaling laws	Italy
910	PLASMA	excited state	decay rates	deut. plasma	W Ger
701	PLASMA	Fabry-Perot	ECR measure	tokamak	France
216	PLASMA	finite beta	equilibria	torodial	Austri
957	PLASMA	fission-fusion	blanket	experiment	Switz
958	PLASMA	fission-fusion	blanket	time dependence	Austri
955	PLASMA	fission-fusion	breeder	economics	Israel
956	PLASMA	fission-fusion	D-cycle tokamak	satellites	Austri
949	PLASMA	fusion research	JET	review	UK
300	PLASMA	glow discharge	cathode region	Monte Carlo	France
210	PLASMA	glow discharge	stability	neon	Israel
251	PLASMA	heating	tokamak	turbulent	Nether
1142	PLASMA	high beta	turbulent heating	tokamak	Nether
317	PLASMA	hollow cathode	magnetic field	discharge	Yugos
529	PLASMA	ICRH coupling	tokamak plasma	wave equation	Belgum

Rec ID	Topic	KW1	KW2	KW3	Country
497	PLASMA	impurities	non-equilibrium	coronal model	UK
364	PLASMA	impurity	transport	drift waves	W Ger
569	PLASMA	impurity	transport	heavy lines	France
218	PLASMA	inhomogeneous	magnetized	quasilinear	Switz
134	PLASMA	instability	fir	rotational	Nether
703	PLASMA	interferometer	HCN-laser	ASDEX	W Ger
1176	PLASMA	ion acous wave	afterglow	diagnostic	W Ger
124	PLASMA	ion acoustic waves	beam excite	experiment	France
173	PLASMA	ion beams	slowing down	nonequilibrium	Poland
458	PLASMA	ion Bernstein	B-field	diagnostic	France
901	PLASMA	ion heating	lower hybrid	quasi linear	W Ger
1174	PLASMA	ion plasma wave	mode conversion	slow wave struc.	W Ger
735	PLASMA	ion spectra	CO2 scattering	coherent detect	W Ger
5	PLASMA	ion-ion	instability	nonlinear	Denmrk
195	PLASMA	iron ions	dielec. recom.	PLT	France
439	PLASMA	KdV solitons	resonant elec.	numerics	Denmrk
433	PLASMA	Langmuir oscil	large amplitude	trapping	W Ger
625	PLASMA	Langmuir probe	argon jet	shock wake	France
179	PLASMA	Langmuir waves	e-beam	argon	UK
1172	PLASMA	Langmuir waves	EM instability	analytics	W Ger
322	PLASMA	Langmuir waves	magnetic field	decay process	Yugos
1188	PLASMA	Langmuir waves	nonlin evolut	QUIPS device	Switz
234	PLASMA	Langmuir waves	quasilinear	breakdown	France
498	PLASMA	laser fluores	H density	measurement	UK
1162	PLASMA	LCT coil	NbTi	He cooled	Switz
635	PLASMA	LF modes	tokamak	2-fluid model	UK
1175	PLASMA	LH waves	absorption	turbulent	W Ger
1158	PLASMA	limiter	metal impurity	transport	W Ger
485	PLASMA	low p discharge	microwave excited	model	France
1092	PLASMA	mag. quadrupole	steady flow	orbit theory	UK
520	PLASMA	magnetic island	coalescence	MHD	Sweden
428	PLASMA	magnetic limiter	ergodic behavior	model	UK
601	PLASMA	magsonic waves	atenuation	drift turb.	Switz
1186	PLASMA	MHD modes	radial structure	tokamak	Switz
1182	PLASMA	MHD stability	helical symmetry	2d code	W Ger
1184	PLASMA	MHD stability	spheromak	vs aspect ratio	Switz
450	PLASMA	MHD waves	cold gas mantle	interactions	Sweden
253	PLASMA	microwave	discharge	travelling wave	Poland
521	PLASMA	mode conversion	rf heating	unified theory	UK
966	PLASMA	muon catalyzed	approaches	evaluation	Switz
465	PLASMA	muon catalyzed	back decay	resonances	UK
964	PLASMA	muon catalyzed	hyperfine trans.	experiments	Austri
963	PLASMA	muon catalyzed	hyperfine trans.	liquid HD	Switz
402	PLASMA	negative ions	hydrogen plasma	multicusp field	France
479	PLASMA	negative ions	production	wall effects	UK
126	PLASMA	neutral heating	confinement	tokamak	UK
633	PLASMA	neutral heating	ion tail	ICRF	Sweden
585	PLASMA	neutral injec	fast ions	MC-FP compar.	France
1179	PLASMA	neutral transport	tokamak	res. fluores.	W Ger
392	PLASMA	non-Markovian	kinetic eqn	magnetoplasma	UK
512	PLASMA	nonideal	screening	conductivity	E Ger
1187	PLASMA	nonlinear waves	3-fluid plasma	numerics	Switz

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Country</u>
421	PLASMA	octupole	z-pinch	experiments	Sweden
528	PLASMA	oxygen impur.	edge penetration	tokamak	Sweden
136	PLASMA	plasma focus	ion emission	Thompson analysis	W Ger
738	PLASMA	position control	FIR interfer.	Textor tokamak	W Ger
1183	PLASMA	potential jumps	argon	electron dist.	Switz
204	PLASMA	propulsion	MHD	arcs	W Ger
610	PLASMA	radiation loss	density limit	Eta-Beta II	Italy
952	PLASMA	reactors	advanced fuels	feasibility	Austri
953	PLASMA	reactors	aneutronic	requirements	Austri
784	PLASMA	REB	rf sustained	current drive	France
702	PLASMA	reflectometer	microwave	density measure	France
198	PLASMA	relativistic	distributions	equilibrium	Spain
526	PLASMA	rev. field pinch	B-field fluc.	Eta-Beta II	Italy
244	PLASMA	rev. field pinch	fluorescence	diagnostic	UK
139	PLASMA	rev. field pinch	helical field	CLEO	UK
140	PLASMA	RF heating	Alfven waves	AERH	Switz
598	PLASMA	Saha equation	relativistic	perfect gas	France
896	PLASMA	scrape-off	neutral heated	Asdex	W Ger
130	PLASMA	solid state	EM wave interac.	conductivity	Denmrk
591	PLASMA	solitons	character	expts + KdV	France
1170	PLASMA	solitons	electromagnetic	quasistatic	W Ger
371	PLASMA	solitons	ion-acoustic	reflection	Austri
297	PLASMA	solitons	spikey whistler		W Ger
593	PLASMA	solitons	surface waves	electrostatics	Sweden
132	PLASMA	sound waves	collisional	correlations	France
470	PLASMA	spin polarized	reactors	B-field effect	Nether
387	PLASMA	stability	thermal equil.	bifurcation	Italy
125	PLASMA	stellarators	status	future	W Ger
543	PLASMA	strong coupled	thermal relax.	numerics	France
536	PLASMA	strong EM wave	inhomo plasma	relativistic	France
137	PLASMA	strongly coupled	thermal cond.	simulation	France
558	PLASMA	surface wave	rf launcher	theory	Bulgar
1200	PLASMA	surfatron	inhomo plasma	propagation	France
1199	PLASMA	surfatron	microwave excited	expt.	France
435	PLASMA	tearing instab.	shear flow	effects	France
522	PLASMA	tearing mode	nonlinear	inertia & viscos	France
123	PLASMA	tearing modes	stability	tokamak	W Ger
1129	PLASMA	temp. measure	Rutherford scat.	JET	Nether
304	PLASMA	thermal conduction	field ergodicity	tokamak	UK
469	PLASMA	tokamak	density limit	MHD theory	Sweden
141	PLASMA	toroidal z-pinch	stabilization	octopole	Sweden
1190	PLASMA	transport	FIR laser	diagnostic	Switz
899	PLASMA	transport	ohmic tokamak	scaling laws	W Ger
564	PLASMA	trap-elec instab.	curvature driven	EM theory	Sweden
514	PLASMA	turbulence	atom heat flow	TFR tokamak	France
232	PLASMA	two-stream	oscillating	ohmic nonlin.	Norway
616	PLASMA	viscosity	spectroscopy	traveling wave	W Ger
217	PLASMA	waves	ion cyclotron	reflection	W Ger
194	PLASMA	waves	magnetosonic	toroidal geometry	France
2	PLASMA	2D oscillations	plasmons	Bose-Einstein	Austri
663	PLASMA	dielec. sat.	res. line	Cr XXIII	Italy
723	SOLIDS	acoustic waves	laser driven	nonlinear	Switz

Rec ID	Topic	KW1	KW2	KW3	Country
383	SOLIDS	ALE	CdTe films		Finlnd
1178	SOLIDS	aluminum	reflectivity	melting point	W Ger
741	SOLIDS	avalanche inj.	Impatt diode	above 100 GHz	France
346	SOLIDS	biochip	calcium ions	muscle control	UK
612	SOLIDS	bioelectronics	Langmuir-Blodgett	optical switch	W Ger
223	SOLIDS	bistability	optical	InSb	UK
732	SOLIDS	bulk crystals	FIR	freq. doupling	W Ger
58	SOLIDS	change of state	molec. rearrange	computer	UK
427	SOLIDS	channeling	damage measure	LiN603	UK
503	SOLIDS	charge trapping	organic solid	E-field effect	W Ger
345	SOLIDS	Chem FETS	chip sensors	enzymes	UK
417	SOLIDS	conductance	measurements	semiconductors	Italy
65	SOLIDS	conducting	plastics	polyacetylene	UK
653	SOLIDS	contact charge	insulators	solid rare gas	UK
224	SOLIDS	coupler	optical	liquid crystal	UK
475	SOLIDS	critical behav	x-ray and neutron	scattering	W Ger
443	SOLIDS	crystal	Schrodinger eqn.	ld model	Belgum
227	SOLIDS	dry etch	plasma parameters	impedance	Nether
1097	SOLIDS	electrification	aircraft	ice particles	UK
1095	SOLIDS	electrification	contact	dielectrics	UK
1096	SOLIDS	electrification	contact	tunnelling	UK
220	SOLIDS	electron beam	annealing	silicon	France
606	SOLIDS	electrostatics	hazards	semiconductors	UK
221	SOLIDS	etching	rf discharge	fluorocarbon	Italy
945	SOLIDS	EXAFS	synch. rad.	data base	UK
642	SOLIDS	ferromagnetic	domains	observation	UK
761	SOLIDS	FIR	freq. measure	Schottky diodes	W Ger
708	SOLIDS	FIR	paramagnetism	low temperature	Belgum
60	SOLIDS	flat displays	LCD	color	UK
258	SOLIDS	GaAs	evaporation	laser irradiation	Nether
760	SOLIDS	GaAs	optical const.	FIR spectra	UK
733	SOLIDS	GaP LED	up conversion	IR to visible	W Ger
490	SOLIDS	Ge photoconductor	IR detection	performance	W Ger
200	SOLIDS	glass	structure	synchrotron rad.	UK
656	SOLIDS	Hall conductance	fractional	explanation	Italy
654	SOLIDS	Hall effect	palladium	H2 diffusion	Nether
620	SOLIDS	heavy ion	slowing down	numerics	Finlnd
699	SOLIDS	heterodyne detec.	FIR	Ge photocon	Austri
700	SOLIDS	heterodyne rec.	diplexer	693 GHz	W Ger
718	SOLIDS	IR absorp	insul & semicon	phonon model	France
66	SOLIDS	Josephson junction	fluxons	dynamics	Denmrk
394	SOLIDS	Josephson junction	ring oscillator	dynamics	Denmrk
308	SOLIDS	Josephson junction	solitons	Sine Gordon	Denmrk
343	SOLIDS	Langmuir-Blodgett	photoresist	polymerization	France
344	SOLIDS	Langmuir-Blodgett	semiconductors	InP	UK
226	SOLIDS	laser	annealing	germanium	Italy
54	SOLIDS	laser	annealing	silicon	France
1139	SOLIDS	laser annealing	implanted Si	threshold	Nether
339	SOLIDS	liquid crystal	conducting	copper core	France
441	SOLIDS	magnetic holes	crystallization	plastic in fluid	Norway
63	SOLIDS	memory	superconducting	Josephson	W Ger
940	SOLIDS	metal layers	ultrathin	photoelec. spec.	UK

Rec ID	Topic	KW1	KW2	KW3	Country
67	SOLIDS	microcircuit	limitations	size	Sweden
504	SOLIDS	microwave	phase shifter	high precision	UK
742	SOLIDS	mm wave detec	metal-semicon	junctions	Sweden
743	SOLIDS	mm wave mixer	cryo Schottky	low noise	Finlnd
353	SOLIDS	monolayer films	self assembling	biochips	Israel
354	SOLIDS	Mossbauer spectra	biological sys.	dynamics	Israel
1154	SOLIDS	Mossbauer spectra	pottery	chemical bonds	Greece
672	SOLIDS	MQW devices	GaAs-GaAlAs	mtg. review	UK
673	SOLIDS	MQW devices	2d excitons	spectrum	Israel
203	SOLIDS	neutron doping	Si wafers	transmutation	UK
607	SOLIDS	N2 diffusion	titanium	annealing	Finlnd
680	SOLIDS	optical bistab	CdS	nonlin. effects	W Ger
685	SOLIDS	optical bistab	semicon. lasers	twin stripe	UK
684	SOLIDS	optical bistab	size limits	diffu & defrac	UK
1203	SOLIDS	optical bistab.	band shrinkage	theory	W Ger
681	SOLIDS	optical bistab.	CdHgTe	fast processes	UK
683	SOLIDS	optical bistab.	chaotic behav.	modeling	Italy
678	SOLIDS	optical bistab.	CuCl	experiments	France
682	SOLIDS	optical bistab.	dynamics	theory	Belgum
675	SOLIDS	optical bistab.	InSb & GaAs	signal proc.	UK
679	SOLIDS	optical comput.	InSb	switches & gates	UK
773	SOLIDS	optical const.	commercial mat.	mm & sub mm	UK
309	SOLIDS	optical fiber	communications	coherent modulat.	Denmrk
739	SOLIDS	optical fiber	Mid IR	telecommun.	France
676	SOLIDS	optical nonlin.	nonlin refrac.	1-elec theory	UK
677	SOLIDS	optical nonlin.	semiconductors	many-body theory	W Ger
59	SOLIDS	optical recording	silicon	laser annealing	Israel
187	SOLIDS	optoelectronic	modulation	semicon. laser	W Ger
463	SOLIDS	organic	electronics	review	UK
165	SOLIDS	organic	superconductor	TMTSF	Denmrk
457	SOLIDS	organic super.	(TMTSF)2ClO4	resistance	France
412	SOLIDS	phonon echoes	structure defect	quartz	UK
674	SOLIDS	photonic logic	optical comput	review	UK
61	SOLIDS	photoresist	gratings	fabrication	Israel
744	SOLIDS	plasmon excit.	Cd3As2	FT mag reflec	Nether
1146	SOLIDS	plasmon-phonon	Raman scattering	Sb2Te3	Greece
1157	SOLIDS	plasmons	Al matrix	He cavities	W Ger
707	SOLIDS	polar liquids	absorb & refrac	50-100 GHz	Poland
609	SOLIDS	polarons	doped plastic	electron scat.	W Ger
553	SOLIDS	polyacetylene	IR activity	photoinduced	Israel
542	SOLIDS	polymers	elec-phonon sys	phase trans.	Israel
689	SOLIDS	polymers	mm-wave absorp	temp. depend.	W Ger
64	SOLIDS	polysilicon	transistors	laser annealing	France
690	SOLIDS	quartz fibers	IR properties	measurements	Switz
348	SOLIDS	Raman Scattering	annealing	silicon	W Ger
1151	SOLIDS	Raman spectra	FIR scattering	semiconductors	Greece
62	SOLIDS	rare-earths	applications	mtg review	UK
256	SOLIDS	recrystallization	silicon	halogen lamp	France
942	SOLIDS	SAW	imaging	synch. rad.	UK
352	SOLIDS	Schottky barrier	photo response	absorption	Israel
55	SOLIDS	Schottky diode	mixer	light & microwaves	W Ger
762	SOLIDS	Schottky diodes	heterodyne	sub mm	W Ger

Rec ID	Topic	KW1	KW2	KW3	Country
763	SOLIDS	Schottky varistor	back radiation	sub mm excite	France
311	SOLIDS	semiconductor	annealing	lasers	France
603	SOLIDS	Si melt & resolid	laser irradi.	velocities	UK
372	SOLIDS	Si(111)	scanning tunnel	microscope	Switz
56	SOLIDS	silicon	ribbon growth	electron bombard	France
660	SOLIDS	solitons	acetanilide	ir absorbtion	Italy
1115	SOLIDS	solitons	atomic chain	substrate poten.	France
1107	SOLIDS	solitons	diatomic chains	anal. & numerics	France
561	SOLIDS	solitons	diatomic chains	quartic potential	France
1111	SOLIDS	solitons	ferromagnet	compressible	Poland
1104	SOLIDS	solitons	ferromagnets	domain walls	UK
1100	SOLIDS	solitons	Josephson junc.	sine-Gordon	Denmrk
1110	SOLIDS	solitons	sine-Gordon	numeric kinks	France
57	SOLIDS	superconductors	organic		Denmrk
745	SOLIDS	surface polarons	CsBr	mesh coupler	W Ger
1204	SOLIDS	thin films	organic	ion implanted	Italy
185	SOLIDS	transport theory	semiconductor	energy conversion	UK
278	SOLIDS	ultra low temp.	refrigeration		W Ger
694	SOLIDS	W band oscil.	stabilization	Ba2Ti9O20	UK
705	SOLIDS	W-Ni diodes	rectification	30-120 THz	E Ger
1153	SOLIDS	x-ray analysis	crystals	organic molecules	Greece
31	WETHER	acoustic	gravity waves	ionosphere	UK
1169	WETHER	active plasmas	planetary	solar	W Ger
716	WETHER	atmos. abund.	CO	mol. rot. trans.	W Ger
753	WETHER	atmos. detection	NO2	FT spectra	France
1193	WETHER	atmos. trans.	communication	expt. + compute	Israel
750	WETHER	atmos. transmit	FIR laser	Scottky detec.	UK
752	WETHER	atmos. transmit	N2O absorp.	line profile calc	France
751	WETHER	atmos. transmit.	CO2 bands	experiment	France
695	WETHER	atmosphere	IR emit & trans	chamber tests	Switz
715	WETHER	atmosphere	trace species	IR absorp lines	France
35	WETHER	Aurora	radar	Eiscat	Sweden
32	WETHER	bacteria	cloud seeding	rain making	Israel
196	WETHER	ball lightning	survey		UK
935	WETHER	baroclinic eddy	Red Spot. anal.	convection	UK
80	WETHER	breaking wave	side-scan sonar	bubbles	UK
659	WETHER	convection	earth, sun, sea	mtg. review	UK
1207	WETHER	earthquake	EM emission	lab simulation	Italy
238	WETHER	earthquake	lights	data collection	Hungry
496	WETHER	Earthquake light	UFOs	study	UK
33	WETHER	ECH waves	magnetosphere	GEOS	Sweden
34	WETHER	ECH waves	magnetosphere	variations	UK
425	WETHER	EM transmission	coagulating	aerosol	UK
893	WETHER	fractal	scattering	reflected light	UK
932	WETHER	geomagnetism	reversals	15 Myr period	France
191	WETHER	gravity waves	magnetoacoustic	atmosphere	UK
38	WETHER	ionosphere	radio waves	reflectivity	W Ger
583	WETHER	ionosphere	rf heating		UK
937	WETHER	ionosphere	rocket hole	chem reactions	UK
1056	WETHER	IR laser	atmos. prop.	turbulent expt.	France
341	WETHER	laser ranging	satellite	facility	UK
37	WETHER	magnetic field	temperature	correlation	France

<u>Rec ID</u>	<u>Topic</u>	<u>KW1</u>	<u>KW2</u>	<u>KW3</u>	<u>Country</u>
641	WETHER	magnetosphere	plasma composite	solar cycle	UK
749	WETHER	mm wave	imaging	antenna array	UK
447	WETHER	ocean wave	synth. aper. radar	imaging	UK
722	WETHER	planetary atmos	H2-He spectra	simulation	France
936	WETHER	solar	disturbances	ground observ	UK
541	WETHER	solar	flux tubes		UK
911	WETHER	solar	magnetoconvection	review	UK
584	WETHER	solar activity	MHD	summary	UK
934	WETHER	solar core	rotation	sun spots	Norway
1166	WETHER	solar flares	stability	2d theory	W Ger
721	WETHER	solar observation	FIR	balloons	Switz
560	WETHER	solar oscil	Doppler measure	temp. inhomo	UK
912	WETHER	solar oscillation	active region	connection	W Ger
597	WETHER	solar rotation	internal	hydro. instab	W Ger
36	WETHER	solar wind	Mars	Venus	UK
717	WETHER	stratosphere	sub mm spectra	balloon instrum.	Italy
1147	WETHER	underground	tunnels	EM scattering	Greece
239	WETHER	volcanic eruption	stratosphere	warming	UK
697	WETHER	water drops	scat & atten	100 GHz	UK
696	WETHER	water vapor	IR absorption	inteferometer	UK

Appendix D:
Location List



Rec ID	Country	City	Institute	Topic
403	Austri	Graz	Tech. Univ. Graz	COMPUT
952	Austri	Graz	Tech. Univ. Graz	PLASMA
953	Austri	Graz	Tech. Univ. Graz	PLASMA
719	Austri	Innsbruck	Univ. Innsbruck	LASERS
2	Austri	Innsbruck	Univ. Innsbruck	PLASMA
371	Austri	Innsbruck	Univ. Innsbruck	PLASMA
531	Austri	Innsbruck	Univ. Innsbruck	PLASMA
956	Austri	Innsbruck	Univ. Innsbruck	PLASMA
958	Austri	Innsbruck	Univ. Innsbruck	PLASMA
699	Austri	Innsbruck	Univ. Innsbruck	SOLIDS
216	Austri	Innsbruck	Univ. Innsbruck	PLASMA
746	Austri	Leoben	Montanuniv. Leoben	DIAGNO
964	Austri	Vienna	Austrian Acad. of Sci.	PLASMA
1083	Austri	Wien	Tech. Univ. Wien	CHEMAT
350	Austri	Wien	Tech. Univ. Wien	LASERS
529	Belgum	Brussels	Ecole Royale Militaire	PLASMA
545	Belgum	Brussels	Facultes Univ. N.D. de la Paix	ATOMIC
648	Belgum	Brussels	Univ. Libre de Bruxelles	BASICS
70	Belgum	Brussels	Univ. Libre de Bruxelles	COMPUT
415	Belgum	Brussels	Univ. Libre de Bruxelles	CPBICF
494	Belgum	Brussels	Univ. Libre de Bruxelles	HYDROD
682	Belgum	Brussels	Univ. Libre de Bruxelles	SOLIDS
629	Belgum	Brussels	Vrije Univ. Bruxelles	HYDROD
289	Belgum	Gent	Rijksuniversiteit te Gent	ENERGY
443	Belgum	Gent	Rijksuniversiteit te Gent	SOLIDS
27	Belgum	Heverlee	Lab. ESAT	ENERGY
453	Belgum	Kortrijk	Katholieke Univ.	HYDROD
708	Belgum	Leuren	Katholieke Univ.	SOLIDS
94	Belgum	Liege	Univ. of Liege	DIAGNO
323	Belgum	Rhode St. Genese	Von Karman Inst.	HYDROD
1087	Belgum	Rhode St. Genese	Von Karman Inst.	HYDROD
245	Bulgar	Sofia	Bulgarian Acad. of Sci.	CPBICF
127	Bulgar	Sofia	Inst. of Electronics	PLASMA
530	Bulgar	Sofia	Sofia Univ.	CPBICF
558	Bulgar	Sofia	Sofia Univ.	PLASMA
156	Czech	Bratislava	Inst. of Phys. and Biophys.	BASICS
1035	Czech	Prague	Czech Tech. Univ.	CPBICF
18	Czech	Prague	Inst. of Plasma Physics	CHEMAT
154	Czech	Prague	Prague Inst. of Chem. Tech.	BASICS
880	Czech	Prague	Prague Inst. of Chem. Tech.	BASICS
1004	Czech	Prague	Univ. of Prague	CPBICF
1023	Czech	Prague	Univ. of Prague	CPBICF
130	Denmrk	Aalborg	Aalborg Univ. Centre	PLASMA
167	Denmrk	Aarhus	Univ. of Aarhus	ATOMIC
262	Denmrk	Copenhagen	NORDITA	BASICS
951	Denmrk	Copenhagen	Univ. of Copenhagen	BMSRAD
495	Denmrk	Copenhagen	Univ. of Copenhagen	COMPUT
57	Denmrk	Copenhagen	Univ. of Copenhagen	SOLIDS
769	Denmrk	Copenhagen	Univ. of Copenhagen	LASERS
508	Denmrk	Lyngby	Tech. Univ. of Denmark	ATOMIC
252	Denmrk	Lyngby	Tech. Univ. of Denmark	BASICS
619	Denmrk	Lyngby	Tech. Univ. of Denmark	BASICS

Rec ID	Country	City	Institute	Topic
66	Denmrk	Lyngby	Tech. Univ. of Denmark	SOLIDS
165	Denmrk	Lyngby	Tech. Univ. of Denmark	SOLIDS
308	Denmrk	Lyngby	Tech. Univ. of Denmark	SOLIDS
309	Denmrk	Lyngby	Tech. Univ. of Denmark	SOLIDS
394	Denmrk	Lyngby	Tech. Univ. of Denmark	SOLIDS
1100	Denmrk	Lyngby	Tech. Univ. of Denmark	SOLIDS
360	Denmrk	Odense	Odense Univ.	ATOMIC
263	Denmrk	Odense	Odense Univ.	BASICS
540	Denmrk	Roskilde	Riso Nat. Lab	PLASMA
5	Denmrk	Roskilde	Riso Nat. Lab.	PLASMA
374	Denmrk	Roskilde	Riso Nat. Lab.	PLASMA
439	Denmrk	Roskilde	Riso Nat. Lab.	PLASMA
605	Denmrk	Roskilde	Riso Nat. Lab.	PLASMA
787	E Ger	Berlin	Akad. der Wissenschaften	CPBICF
512	E Ger	Berlin	Akad. der Wissenschaften	PLASMA
1039	E Ger	Berlin	Cen. Inst. for Optics and Spec.	CPBICF
1042	E Ger	Berlin	Cen. Inst. for Optics and Spec.	LASERS
705	E Ger	Braunschweig	Phys-Tech Bundesanstalt	SOLIDS
874	E Ger	Griefswald	E.M. Arndt Univ.	BASICS
120	E Ger	Rostock	Wilhelm-Pieck Univ.	PLASMA
537	Egypt	Cairo	Ain Shams Univ.	HYDROD
480	Egypt	Giza	Cairo Univ.	ATOMIC
143	Finlnd	Helsinki	Helsinki Univ. of Tech.	BASICS
743	Finlnd	Helsinki	Helsinki Univ. of Tech.	SOLIDS
976	Finlnd	Helsinki	Tech. Res. Cen. of Finland	CPBICF
1029	Finlnd	Helsinki	Tech. Res. Cen. of Finland	CPBICF
13	Finlnd	Helsinki	Univ. of Helsinki	CHEMAT
607	Finlnd	Helsinki	Univ. of Helsinki	SOLIDS
620	Finlnd	Helsinki	Univ. of Helsinki	SOLIDS
383	Finlnd	Tampere	Tampere Univ. of Tech.	SOLIDS
157	France	Bordeaux	Univ. of Bordeaux	BASICS
747	France	Boulogne-Billancourt	Thomson-CSF	BMSRAD
292	France	Brest	Univ. de Bretagne Occidentale	LASERS
162	France	Caen	GANIL	BMSRAD
325	France	Chatillon	ONERA	ATOMIC
324	France	Chatillon	ONERA	BASICS
328	France	Chatillon	ONERA	DIAGNO
329	France	Chatillon	ONERA	DIAGNO
330	France	Chatillon	ONERA	DIAGNO
326	France	Chatillon	ONERA	HYDROD
327	France	Chatillon	ONERA	HYDROD
1075	France	Chatillon	ONERA	LASERS
1056	France	Chatillon	ONERA	WETHER
28	France	Compiègne	Univ. de Tech. de Compiègne	ENERGY
561	France	Dijon	Univ. de Dijon	SOLIDS
1107	France	Dijon	Univ. de Dijon	SOLIDS
1115	France	Dijon	Univ. de Dijon	SOLIDS
219	France	Ecully	Labo. de Mecan. des Fluides	HYDROD
194	France	Fontenay-aux-Roses	Cen. d'Etudes Nucleaires	PLASMA
435	France	Fontenay-aux-Roses	Cen. d'Etudes Nucleaires	PLASMA
438	France	Fontenay-aux-Roses	Cen. d'Etudes Nucleaires	PLASMA
514	France	Fontenay-aux-Roses	Cen. d'Etudes Nucleaires	PLASMA

Rec ID	Country	City	Institute	Topic
522	France	Fontenay-aux-Roses	Cent. d'Etudes Nucleaires	PLASMA
534	France	Fontenay-aux-Roses	Cent. d'Etudes Nucleaires	PLASMA
569	France	Fontenay-aux-Roses	Cent. d'Etudes Nucleaires	PLASMA
599	France	Fontenay-aux-Roses	Cent. d'Etudes Nucleaires	PLASMA
693	France	Fontenay-aux-Roses	Cent. d'Etudes Nucleaires	PLASMA
701	France	Fontenay-aux-Roses	Cent. d'Etudes Nucleaires	PLASMA
702	France	Fontenay-aux-Roses	Cent. d'Etudes Nucleaires	PLASMA
784	France	Fontenay-aux-Roses	Cent. d'Etudes Nucleaires	PLASMA
585	France	Fontenay-aux-Roses	Cent. d'Etudes Nucleaires	PLASMA
581	France	Gif-sur-Yvette	CEN Saclay	ATOMIC
1091	France	Gif-sur-Yvette	CEN Saclay	ATOMIC
889	France	Gif-sur-Yvette	CEN Saclay	BASICS
604	France	Gif-sur-Yvette	CEN Saclay	CPBICF
260	France	Gif-sur-Yvette	CEN Saclay	HYDROD
879	France	Gif-sur-Yvette	CEN Saclay	HYDROD
186	France	Gif-sur-Yvette	CNRS E.S.E. Plateau du Moulan	CPBICF
300	France	Gif-sur-Yvette	Ecole Sup. d'Electricite	PLASMA
343	France	Gif-sur-Yvette	Nuclear Studies Center	SOLIDS
16	France	Gramat	Centre d'Etudes de Gramat	CHEMAT
454	France	Grenoble	Assoc. Euratom-CEA	PLASMA
365	France	Grenoble	Cent. for Res. at Very Low Temp.	BASICS
887	France	Grenoble	Cent. for Res. at Very Low Temp.	BASICS
888	France	Grenoble	Cent. for Res. at Very Low Temp.	BASICS
877	France	Grenoble	Cent. Nat. de la Recherche Sci.	HYDROD
161	France	Grenoble	Inst. Laue-Langevin	EMSRAD
132	France	Grenoble	Inst. Laue-Langevin	PLASMA
692	France	Grenoble	Labo. de Spectro. Phys.	PLASMA
284	France	Grenoble	Labo. d'Elec. et de Mat. Dielec.	CPBICF
256	France	Grenoble	Labo. d'Electronique et des Tech.	SOLIDS
785	France	Grenoble	Univ. Grenoble I	CPBICF
775	France	Is-sur-Tille	CEA Valduc	CPBICF
776	France	Is-sur-Tille	CEA Valduc	CPBICF
783	France	Is-sur-Tille	CEA Valduc	CPBICF
786	France	Is-sur-Tille	CEA Valduc	CPBICF
538	France	Issy-les-Moulineaux	CNET/CRPE	PLASMA
64	France	Lannion	Cent. Nat. d'Etudes Telecom.	SOLIDS
56	France	Lyon	Inst. Nat. de Sci. Appliquees	SOLIDS
739	France	Marcoussis	Compagnie Generale d'Electricite	SOLIDS
764	France	Marseille	Faculte St. Jerome	DIAGNO
805	France	Marseille	Faculte St. Jerome	DIAGNO
722	France	Marseille	Faculte St. Jerome	WETHER
1068	France	Marseille	IMFM	HYDROD
1069	France	Marseille	IMFM	HYDROD
1082	France	Marseille	IMFM	LASERS
493	France	Marseille	Inst. Mecan. Stat. de la Turb.	HYDROD
748	France	Marseille	Labo. de Thermophysique	HYDROD
627	France	Marseille	Univ. de Provence	ATOMIC
507	France	Marseille	Univ. de Provence	DIAGNO
476	France	Marseille	Univ. de Provence	HYDROD
706	France	Marseille	Univ. de Provence	LASERS
625	France	Meudon	Univ. Pierre et Marie Curie	PLASMA
54	France	Meylan	Cent. Nat. d'Etudes Telecom.	SOLIDS

Rec ID	Country	City	Institute	Topic
591	France	Nancy	Faculte des Science, CNRS	PLASMA
331	France	Nice	Observ. de Nice	ATOMIC
622	France	Nice	Observ. de Nice	CPBICF
195	France	Nice	Observ. de Nice	PLASMA
1110	France	Nice	Observ. de Nice	SOLIDS
1211	France	Nice	Univ. de Nice	BASICS
446	France	Nont-St-Aignan	Fac. des Sci. de Rouen	DIAGNO
467	France	Orleans	CNRS	EMSRAD
718	France	Orleans	Univ. d'Orleans	SOLIDS
602	France	Orsay	Cent. Nat. de la Res. Sci. II	ATOMIC
709	France	Orsay	Centre Univ. d'Orsay	DIAGNO
46	France	Orsay	Inst. d'Optique	LASERS
753	France	Orsay	Labo. Phys. Mol. et Opt. Armo CNRS	WETHER
582	France	Orsay	Univ. Paris Sud	ATOMIC
590	France	Orsay	Univ. Paris Sud	ATOMIC
815	France	Orsay	Univ. Paris Sud	ATOMIC
826	France	Orsay	Univ. Paris Sud	ATOMIC
155	France	Orsay	Univ. Paris Sud	BASICS
810	France	Orsay	Univ. Paris Sud	BMSRAD
922	France	Orsay	Univ. Paris Sud	BMSRAD
923	France	Orsay	Univ. Paris Sud	BMSRAD
924	France	Orsay	Univ. Paris Sud	BMSRAD
925	France	Orsay	Univ. Paris Sud	BMSRAD
926	France	Orsay	Univ. Paris Sud	BMSRAD
927	France	Orsay	Univ. Paris Sud	BMSRAD
928	France	Orsay	Univ. Paris Sud	BMSRAD
243	France	Orsay	Univ. Paris Sud	CPBICF
813	France	Orsay	Univ. Paris Sud	CPBICF
977	France	Orsay	Univ. Paris Sud	CPBICF
1073	France	Orsay	Univ. Paris Sud	LASERS
215	France	Orsay	Univ. Paris Sud	PLASMA
485	France	Orsay	Univ. Paris Sud	PLASMA
1197	France	Orsay	Univ. Paris Sud	PLASMA
752	France	Orsay	Univ. Paris Sud	WETHER
802	France	Orsay	Univ. Paris XI	BMSRAD
1198	France	Orsay	Univ. Paris XI	CPBICF
724	France	Orsay	Univ. Paris XI	LASERS
1199	France	Orsay	Univ. Paris XI	PLASMA
1200	France	Orsay	Univ. Paris XI	PLASMA
455	France	Palaiseau	Ecole Poly.	CPBICF
236	France	Palaiseau	Ecole Poly.	CPBICF
567	France	Palaiseau	Ecole Poly.	CPBICF
686	France	Palaiseau	Ecole Poly.	CPBICF
779	France	Palaiseau	Ecole Poly.	CPBICF
780	France	Palaiseau	Ecole Poly.	CPBICF
790	France	Palaiseau	Ecole Poly.	CPBICF
791	France	Palaiseau	Ecole Poly.	CPBICF
967	France	Palaiseau	Ecole Poly.	CPBICF
971	France	Palaiseau	Ecole Poly.	CPBICF
975	France	Palaiseau	Ecole Poly.	CPBICF
978	France	Palaiseau	Ecole Poly.	CPBICF
988	France	Palaiseau	Ecole Poly.	CPBICF

Rec ID	Country	City	Institute	Topic
989	France	Palaiseau	Ecole Poly.	CPBICF
993	France	Palaiseau	Ecole Poly.	CPBICF
1002	France	Palaiseau	Ecole Poly.	CPBICF
1009	France	Palaiseau	Ecole Poly.	CPBICF
1018	France	Palaiseau	Ecole Poly.	CPBICF
1022	France	Palaiseau	Ecole Poly.	CPBICF
1025	France	Palaiseau	Ecole Poly.	CPBICF
1036	France	Palaiseau	Ecole Poly.	CPBICF
1051	France	Palaiseau	Ecole Poly.	CPBICF
369	France	Palaiseau	Ecole Poly.	DIAGNO
799	France	Palaiseau	Ecole Poly.	LASERS
234	France	Palaiseau	Ecole Poly.	PLASMA
402	France	Palaiseau	Ecole Poly.	PLASMA
458	France	Palaiseau	Ecole Poly.	PLASMA
546	France	Paris	Ecole Normale Superieure	ATOMIC
566	France	Paris	Ecole Normale Superieure	ATOMIC
698	France	Paris	Ecole Normale Superieure	ATOMIC
131	France	Paris	Ecole Normale Superieure	PLASMA
75	France	Paris	INRIA	COMPUT
598	France	Paris	Labo. de Phys. Theorique, CNRS	PLASMA
754	France	Paris	Labo. Primaire Temps & Freq.	LASERS
37	France	Paris	Univ. of Paris	WETHER
932	France	Paris	Univ. Paris VI	WETHER
293	France	Paris	Univ. Paris VII	DIAGNO
533	France	Paris	Univ. Paris VII	HYDROD
634	France	Paris	Univ. Paris VIII	HYDROD
729	France	Paris	Univ. Pierre et Marie Curie	ATOMIC
1102	France	Paris	Univ. Pierre et Marie Curie	BASICS
982	France	Paris	Univ. Pierre et Marie Curie	CPBICF
21	France	Paris	Univ. Pierre et Marie Curie	ENERGY
137	France	Paris	Univ. Pierre et Marie Curie	PLASMA
543	France	Paris	Univ. Pierre et Marie Curie	PLASMA
311	France	Paris	Univ. Pierre et Marie Curie	SOLIDS
763	France	Paris	Univ. Pierre et Marie Curie	SOLIDS
246	France	Pau	Inst. Univ. de Recherche Sci.	CPBICF
523	France	Pau	Univ. de Pau	CPBICF
1209	France	Poitiers	Ecole Nationale Superieure	HYDROD
1001	France	Poitiers	Labo. d'Energetique et Detonique	HYDROD
1019	France	Poitiers	Labo. d'Energetique et Detonique	HYDROD
715	France	Reims	Labo. de Phys. Molec. CNRS	WETHER
98	France	Reims	U.E.R. des Sciences	DIAGNO
751	France	Rennes	Univ. de Rennes I	WETHER
782	France	Sevran	CEA Vaujours	CPBICF
124	France	St. Maur des Fosses	Cen. Res. Phys. de l'Environ	PLASMA
339	France	Strasbourg	Cen. des Res. Macromolecules	SOLIDS
678	France	Strasbourg	Univ. Louis Pasteur	SOLIDS
596	France	Toulouse	Cen. Nat. de la Res. Sci.	HYDROD
235	France	Toulouse	Cen. Nat. d'Etudes Spatiales	PLASMA
457	France	Toulouse	Labo. de Physique des Solides	SOLIDS
474	France	Toulouse	ONERA	HYDROD
1145	France	Toulouse	Univ. Paul Sabatier	BMSRAD
555	France	Toulouse	Univ. Paul Sabatier	CPBICF

Rec ID	Country	City	Institute	Topic
576	France	Toulouse	Univ. Paul Sabatier	CPBICF
974	France	Toulouse	Univ. Paul Sabatier	CPBICF
990	France	Toulouse	Univ. Paul Sabatier	CPBICF
1021	France	Toulouse	Univ. Paul Sabatier	CPBICF
1070	France	Toulouse	Univ. Paul Sabatier	LASERS
1071	France	Toulouse	Univ. Paul Sabatier	LASERS
401	France	Valenciennes	Univ. de Valenciennes	DIAGNO
731	France	Vardoeuvre les Nancy	Univ. Nancy I	ATOMIC
714	France	Verrieres-le-Buisson	Service d'Atero. CNRS	DIAGNO
727	France	Villeneuve d'Ascq	Univ. de Lille I	LASERS
741	France	Villeneuve d'Ascq	Univ. de Lille I	SOLIDS
413	France	Villeneuve-St-Georges	CEA Limeil	CPBICF
437	France	Villeneuve-St-Georges	CEA Limeil	CPBICF
968	France	Villeneuve-St-Georges	CEA Limeil	CPBICF
1003	France	Villeneuve-St-Georges	CEA Limeil	CPBICF
1005	France	Villeneuve-St-Georges	CEA Limeil	CPBICF
1011	France	Villeneuve-St-Georges	CEA Limeil	CPBICF
1012	France	Villeneuve-St-Georges	CEA Limeil	CPBICF
1014	France	Villeneuve-St-Georges	CEA Limeil	CPBICF
536	France	Villeneuve-St-Georges	CEA Limeil	PLASMA
728	France	Villetaneuse	Univ. Paris Nord	LASERS
220	France	Villeurbanne	Univ. Claude Bernard Lyon	SOLIDS
1148	Greece	Athens	Nat. Tech. Univ. of Athens	BMSRAD
1149	Greece	Athens	Nat. Tech. Univ. of Athens	BMSRAD
1150	Greece	Athens	Nat. Tech. Univ. of Athens	BMSRAD
1146	Greece	Athens	Nat. Tech. Univ. of Athens	SOLIDS
1147	Greece	Athens	Nat. Tech. Univ. of Athens	WETHER
1152	Greece	Athens	Nat. Tech. Univ. Zografu	CHEMAT
1151	Greece	Athens	Nat. Tech. Univ. Zografu	SOLIDS
1155	Greece	Athens	Nucl. Res. Cen. Demokritos	COMPUT
1156	Greece	Athens	Nucl. Res. Cen. Demokritos	PLASMA
1153	Greece	Athens	Nucl. Res. Cen. Demokritos	SOLIDS
1154	Greece	Athens	Nucl. Res. Cen. Demokritos	SOLIDS
338	Greece	Iraklion	Univ. of Crete	BMSRAD
510	Greece	Iraklion	Univ. of Crete	BMSRAD
238	Hungry	Budapest	Georgiana Observ.	WETHER
366	Hungry	Budapest	Inst. for Tech. Physics	BASICS
484	Irland	Cork	Univ. College	LASERS
772	Irland	Cork	Univ. College	LASERS
854	Irland	Dublin	Trinity College	CPBICF
549	Irland	Dublin	Trinity College	LASERS
637	Irland	Dublin	Trinity College	LASERS
973	Irland	Dublin	Trinity College	LASERS
557	Israel	Beer-Sheva	Ben Gurion Univ. Negev	ATOMIC
15	Israel	Beer-Sheva	Ben Gurion Univ. Negev	CHEMAT
451	Israel	Beer-Sheva	Ben Gurion Univ. Negev	CPBICF
307	Israel	Beer-Sheva	Ben Gurion Univ. Negev	HYDROD
213	Israel	Beer-Sheva	Ben Gurion Univ. Negev	LASERS
547	Israel	Beer-Sheva	Ben Gurion Univ. Negev	LASERS
1063	Israel	Beer-Sheva	Ben Gurion Univ. Negev	LASERS
1066	Israel	Beer-Sheva	Ben Gurion Univ. Negev	LASERS
212	Israel	Beer-Sheva	Nuclear Res. Cen. Negev	CPBICF

Rec ID	Country	City	Institute	Topic
270	Israel	Beer-Sheva	Nuclear Res. Cen. Negev	CPBICF
423	Israel	Beer-Sheva	Nuclear Res. Cen. Negev	CPBICF
1024	Israel	Beer-Sheva	Nuclear Res. Cen. Negev	CPBICF
1052	Israel	Beer-Sheva	Nuclear Res. Cen. Negev	CPBICF
478	Israel	Beer-Sheva	Nuclear Res. Cen. Negev	HYDROD
1060	Israel	Beer-Sheva	Nuclear Res. Cen. Negev	LASERS
1067	Israel	Beer-Sheva	Nuclear Res. Cen. Negev	LASERS
1088	Israel	Beer-Sheva	Nuclear Res. Cen. Negev	LASERS
955	Israel	Beer-Sheva	Nuclear Res. Cen. Negev	PLASMA
781	Israel	Haifa	Ministry of Defense	CPBICF
792	Israel	Haifa	Ministry of Defense	CPBICF
355	Israel	Haifa	Technion	ATOMIC
51	Israel	Haifa	Technion	ENERGY
41	Israel	Haifa	Technion	LASERS
209	Israel	Haifa	Technion	LASERS
210	Israel	Haifa	Technion	PLASMA
491	Israel	Haifa	Technion	PLASMA
59	Israel	Haifa	Technion	SOLIDS
553	Israel	Haifa	Technion	SOLIDS
673	Israel	Haifa	Technion	SOLIDS
1193	Israel	Haifa	Technion	WETHER
406	Israel	Jerusalem	Hebrew Univ.	ATOMIC
501	Israel	Jerusalem	Hebrew Univ.	ATOMIC
816	Israel	Jerusalem	Hebrew Univ.	ATOMIC
820	Israel	Jerusalem	Hebrew Univ.	ATOMIC
822	Israel	Jerusalem	Hebrew Univ.	ATOMIC
881	Israel	Jerusalem	Hebrew Univ.	BASICS
211	Israel	Jerusalem	Hebrew Univ.	CPBICF
554	Israel	Jerusalem	Hebrew Univ.	CPBICF
817	Israel	Jerusalem	Hebrew Univ.	CPBICF
920	Israel	Jerusalem	Hebrew Univ.	CPBICF
929	Israel	Jerusalem	Hebrew Univ.	CPBICF
930	Israel	Jerusalem	Hebrew Univ.	CPBICF
807	Israel	Jerusalem	Hebrew Univ.	DIAGNO
809	Israel	Jerusalem	Hebrew Univ.	DIAGNO
47	Israel	Jerusalem	Hebrew Univ.	LASERS
1194	Israel	Jerusalem	Hebrew Univ.	LASERS
827	Israel	Jerusalem	Hebrew Univ.	PLASMA
352	Israel	Jerusalem	Hebrew Univ.	SOLIDS
354	Israel	Jerusalem	Hebrew Univ.	SOLIDS
771	Israel	Jerusalem	Hebrew Univ.	CPBICF
153	Israel	Ramat-Gan	Bar-Ilan Univ.	BASICS
357	Israel	Ramat-Gan	Bar-Ilan Univ.	BASICS
891	Israel	Ramat-Gan	Bar-Ilan Univ.	BASICS
159	Israel	Rehovot	Weizmann Inst. of Sci.	BASICS
208	Israel	Rehovot	Weizmann Inst. of Sci.	BASICS
373	Israel	Rehovot	Weizmann Inst. of Sci.	BASICS
651	Israel	Rehovot	Weizmann Inst. of Sci.	BASICS
8	Israel	Rehovot	Weizmann Inst. of Sci.	CPBICF
7	Israel	Rehovot	Weizmann Inst. of Sci.	CPBICF
142	Israel	Rehovot	Weizmann Inst. of Sci.	CPBICF
264	Israel	Rehovot	Weizmann Inst. of Sci.	CPBICF

<u>Rec ID</u>	<u>Country</u>	<u>City</u>	<u>Institute</u>	<u>Topic</u>
399	Israel	Rehovot	Weizmann Inst. of Sci.	CPBICF
774	Israel	Rehovot	Weizmann Inst. of Sci.	CPBICF
789	Israel	Rehovot	Weizmann Inst. of Sci.	CPBICF
440	Israel	Rehovot	Weizmann Inst. of Sci.	DIAGNO
24	Israel	Rehovot	Weizmann Inst. of Sci.	ENERGY
358	Israel	Rehovot	Weizmann Inst. of Sci.	HYDROD
353	Israel	Rehovot	Weizmann Inst. of Sci.	SOLIDS
542	Israel	Rehovot	Weizmann Inst. of Sci.	SOLIDS
890	Israel	Tel Aviv	Tel Aviv Univ.	BASICS
892	Israel	Tel Aviv	Tel Aviv Univ.	BASICS
1191	Israel	Tel Aviv	Tel Aviv Univ.	BMSRAD
1192	Israel	Tel Aviv	Tel Aviv Univ.	BMSRAD
181	Israel	Tel Aviv	Tel Aviv Univ.	CPBICF
207	Israel	Tel Aviv	Tel Aviv Univ.	CPBICF
356	Israel	Tel Aviv	Tel Aviv Univ.	CPBICF
384	Israel	Tel Aviv	Tel Aviv Univ.	CPBICF
878	Israel	Tel Aviv	Tel Aviv Univ.	HYDROD
61	Israel	Tel Aviv	Tel Aviv Univ.	SOLIDS
32	Israel	Tel Aviv	Tel Aviv Univ.	WETHER
1017	Israel	Yavne	Soreq Nuclear Res. Cen.	ATOMIC
814	Israel	Yavne	Soreq Nuclear Res. Cen.	CPBICF
95	Italy	Bari	Univ. of Bari	DIAGNO
221	Italy	Bari	Univ. of Bari	SOLIDS
489	Italy	Bologna	CNR-Inst. Lamel	CHEMAT
334	Italy	Casaccia	Lab. Tec. Speciali-CNEN	LASERS
539	Italy	Catania	Univ. di Catania	HYDROD
1204	Italy	Catania	Univ. di Catania	SOLIDS
272	Italy	Florence	Ist. di Elettronica Quant. CNR	LASERS
362	Italy	Florence	Ist. di Elettronica Quant. CNR	LASERS
662	Italy	Florence	Ist. di Elettronica Quant. CNR	LASERS
872	Italy	Florence	Ist. Nazionale di Ottica	BASICS
316	Italy	Florence	Ist. Nazionale di Ottica	LASERS
734	Italy	Florence	Ist. Ricerca Onde EM	DIAGNO
717	Italy	Florence	Ist. Ricerca Onde EM	WETHER
152	Italy	Florence	Univ. of Florence	BASICS
650	Italy	Florence	Univ. of Florence	BASICS
921	Italy	Frascati	Centro Richerche Energia-ENEA	BMSRAD
1049	Italy	Frascati	Centro Richerche Energia-ENEA	CPBICF
387	Italy	Frascati	Centro Richerche Energia-ENEA	PLASMA
661	Italy	Frascati	Centro Richerche Energia-ENEA	PLASMA
664	Italy	Frascati	Centro Richerche Energia-ENEA	PLASMA
663	Italy	Frascati	Centro Richerche Energia-ENEA	PLASMS
337	Italy	Frascati	Ist. Naz. di Fisica Nucleare	BMSRAD
665	Italy	Frascati	Ist. Naz. di Fisica Nucleare	BMSRAD
656	Italy	Frascati	Ist. Naz. di Fisica Nucleare	SOLIDS
128	Italy	Genova	Ist. di Elettrotecnica	PLASMA
913	Italy	Ispra	CEC Joint Res. Cen.	BASICS
1119	Italy	Lecce	Univ. di Lecce	BASICS
638	Italy	Lecce	Univ. di Lecce	LASERS
410	Italy	Messina	Consig. Nac. delle Richerche	HYDROD
321	Italy	Milan	CISE S.p.A.	ATOMIC
1090	Italy	Milan	CISE S.p.A.	CHEMAT

Rec ID	Country	City	Institute	Topic
1061	Italy	Milan	CISE S.p.A.	LASERS
189	Italy	Milan	Ist. di Macchine-CNPM	HYDROD
621	Italy	Milan	Politecnico di Milano	HYDROD
151	Italy	Milan	Societa per Azioni	HYDROD
636	Italy	Milan	Univ. degli Studi di Milano	ATOMIC
1210	Italy	Milan	Univ. degli Studi di Milano	BASICS
933	Italy	Milan	Univ. di Milano	BASICS
683	Italy	Milan	Univ. di Milano	SOLIDS
586	Italy	Naples	Univ. degli Studi	ENERGY
1064	Italy	Naples	Univ. di Napoli	CHEMAT
1065	Italy	Naples	Univ. di Napoli	CHEMAT
1072	Italy	Naples	Univ. di Napoli	LASERS
1080	Italy	Naples	Univ. di Napoli	LASERS
1086	Italy	Naples	Univ. di Napoli	LASERS
1059	Italy	Orbassano	Cen. Recherche FIAT	CHEMAT
499	Italy	Orbassano	Fiat Research Center	DIAGNO
526	Italy	Padua	Assoc. Euratom, CNR	PLASMA
812	Italy	Padua	Univ. di Padova	ATOMIC
1113	Italy	Padua	Univ. di Padova	BASICS
1084	Italy	Padua	Univ. di Padova	CHEMAT
610	Italy	Padua	Univ. di Padova	PLASMA
172	Italy	Parma	Univ. di Padova	ATOMIC
979	Italy	Pisa	Ist. di Fisica Atom. e Molec.	CPBICF
713	Italy	Pisa	Univ. di Pisa	LASERS
725	Italy	Pisa	Univ. di Pisa	LASERS
770	Italy	Pisa	Univ. di Pisa	LASERS
351	Italy	Pomezia	Selenia S.P.A.	LASERS
452	Italy	Pomezia	Selenia S.P.A.	LASERS
1207	Italy	Rome	Ist. di Astrofisica Spaziale	WETHER
226	Italy	Rome	Ist. di Fisica	SOLIDS
1108	Italy	Rome	Univ. degli Studi-Roma	HYDROD
294	Italy	Rome	Univ. di Roma	BASICS
1116	Italy	Rome	Univ. di Roma	BASICS
332	Italy	Rome	Univ. di Roma	BMSRAD
660	Italy	Rome	Univ. di Roma	SOLIDS
417	Italy	Rome	Univ. La Sapienza	SOLIDS
11	Italy	Turin	Fiat Auto S.P.A.	CHEMAT
1114	Italy	Turin	Ist. Cosmo-Geofisica CNR	HYDROD
1085	Italy	Turin	Poli. di Torino	HYDROD
1140	Nether	Amsterdam	Inst. for Atomic & Molec. Phys.	ATOMIC
385	Nether	Amsterdam	Inst. for Atomic & Molec. Phys.	BMSRAD
1133	Nether	Amsterdam	Inst. for Atomic & Molec. Phys.	BMSRAD
655	Nether	Amsterdam	Inst. for Atomic & Molec. Phys.	CPBICF
1128	Nether	Amsterdam	Inst. for Atomic & Molec. Phys.	CPBICF
1137	Nether	Amsterdam	Inst. for Atomic & Molec. Phys.	CPBICF
1141	Nether	Amsterdam	Inst. for Atomic & Molec. Phys.	CPBICF
1138	Nether	Amsterdam	Inst. for Atomic & Molec. Phys.	DIAGNO
1132	Nether	Amsterdam	Inst. for Atomic & Molec. Phys.	ENERGY
1139	Nether	Amsterdam	Inst. for Atomic & Molec. Phys.	SOLIDS
170	Nether	Amsterdam	Univ. of Amsterdam	ATOMIC
158	Nether	Amsterdam	Univ. of Amsterdam	BASICS
382	Nether	Amsterdam	Univ. of Amsterdam	BASICS

<u>Rec ID</u>	<u>Country</u>	<u>City</u>	<u>Institute</u>	<u>Topic</u>
654	Nether	Amsterdam	Univ. of Amsterdam	SOLIDS
519	Nether	DeBilt	Royal Nether. Meteor. Inst.	BASICS
418	Nether	Delft	Lab. voor Tech. Natuurkunde	BASICS
281	Nether	Eindhoven	Eindhoven Univ. of Tech.	CPBICF
1202	Nether	Eindhoven	Eindhoven Univ. of Tech.	CPBICF
1	Nether	Eindhoven	Eindhoven Univ. of Tech.	PLASMA
134	Nether	Eindhoven	Eindhoven Univ. of Tech.	PLASMA
744	Nether	Eindhoven	Eindhoven Univ. of Tech.	SOLIDS
1214	Nether	Eindhoven	Philips Research Labs.	BMSRAD
227	Nether	Eindhoven	Philips Research Labs.	SOLIDS
404	Nether	Enschede	Twente Univ. of Tech.	LASERS
258	Nether	Groningen	Univ. of Groningen	SOLIDS
1134	Nether	Leiden	Huygens Lab.	DIAGNO
1099	Nether	Leiden	Inst. Lorentz	BASICS
1131	Nether	Leiden	Inst. Lorentz	BASICS
1130	Nether	Leiden	Inst. Lorentz	HYDROD
1143	Nether	Nieuwegein	Inst. voor Plasmafysica	CPBICF
687	Nether	Nieuwegein	Inst. voor Plasmafysica	DIAGNO
251	Nether	Nieuwegein	Inst. voor Plasmafysica	PLASMA
470	Nether	Nieuwegein	Inst. voor Plasmafysica	PLASMA
600	Nether	Nieuwegein	Inst. voor Plasmafysica	PLASMA
1129	Nether	Nieuwegein	Inst. voor Plasmafysica	PLASMA
1142	Nether	Nieuwegein	Inst. voor Plasmafysica	PLASMA
313	Nether	Nijmegen	Katholieke Univ.	BASICS
640	Nether	Nijmegen	Univ. of Nijmegen	BASICS
759	Nether	Nijmegen	Univ. of Nijmegen	LASERS
103	Nether	Noordwijk	Eur. Space Res. and Tech. Cen.	DIAGNO
149	Nether	Terneuzen	Zeldenrust College	CPBICF
315	Nether	Utrecht	Academic Computer Cen.	BASICS
1118	Nether	Utrecht	Rijksuniv. Utrecht	BASICS
83	Nether	Utrecht	Univ. of Utrecht	HYDROD
81	Norway	Bergen	Univ. of Bergen	HYDROD
441	Norway	Kjeller	Inst. for Energy Tech.	SOLIDS
400	Norway	Kjeller	Norwegian Defense Res. Estab.	HYDROD
22	Norway	Oslo	Central Inst. for Indus. Res.	HYDROD
502	Norway	Oslo	Central Inst. for Indus. Res.	HYDROD
579	Norway	Oslo	Univ. of Oslo	BASICS
934	Norway	Oslo	Univ. of Oslo	WETHER
182	Norway	Tromso	Univ. of Tromso	BMSRAD
232	Norway	Tromso	Univ. of Tromso	PLASMA
6	Norway	Trondheim	Norwegian Inst. of Tech.	CPBICF
647	Norway	Trondheim	Norwegian Inst. of Tech.	HYDROD
122	Norway	Trondheim	Univ. of Trondheim	PLASMA
129	Norway	Trondheim	Univ. of Trondheim	PLASMA
180	Poland	Gdansk	Gdansk Tech. Univ.	CPBICF
1076	Poland	Gdansk	Polish Acad. of Sci.	LASERS
253	Poland	Gdansk	Polish Acad. of Sci.	PLASMA
954	Poland	Krakow	Inst. of Phys. and Nucl. Tech	PLASMA
169	Poland	Krakow	Univ. Jagiellonski	ATOMIC
173	Poland	Swierk-Otwock	Inst. of Nuclear Research	PLASMA
960	Poland	Warsaw	Inst. Plasma Phys. & Laser Fusion	CPBICF
1016	Poland	Warsaw	Inst. Plasma Phys. & Laser Fusion	CPBICF

Rec ID	Country	City	Institute	Topic
146	Poland	Warsaw	Polish Acad. of Sci.	BASICS
318	Poland	Warsaw	Polish Acad. of Sci.	BASICS
707	Poland	Warsaw	Polish Acad. of Sci.	SOLIDS
416	Poland	Warsaw	Univ. of Warsaw	BASICS
100	Poland	Warsaw	Univ. of Warsaw	DIAGNO
40	Poland	Warsaw	Warsaw Tech. Univ	LASERS
1111	Poland	Warsaw	Warsaw Tech. Univ.	SOLIDS
257	Portug	Lisbon	CAUL-CFMC	BASICS
870	Portug	Lisbon	CAUL-CFMC	BASICS
649	Portug	Lisbon	CFMC-INIC	BASICS
1213	Portug	Lisbon	CFMC-INIC	BASICS
242	Portug	Lisbon	Inst. Superior Tecnico	CPBICF
617	Portug	Lisbon	Inst. Superior Tecnico	CPBICF
500	Portug	Lisbon	Univ. Tecnica	ATOMIC
48	Roman	Bucharest	Central Inst. of Physics	LASERS
259	Spain	Barcelona	Univ. Auto. de Barcelona	BASICS
444	Spain	Barcelona	Univ. de Barcelona	BMSRAD
225	Spain	Granada	Univ. of Granada	ENERGY
199	Spain	Madrid	Univ. Auto. de Madrid	ATOMIC
104	Spain	Madrid	Univ. Auto. de Madrid	DIAGNO
668	Spain	Madrid	Univ. Auto. de Madrid	DIAGNO
82	Spain	Madrid	Univ. Auto. de Madrid	HYDROD
426	Spain	Madrid	Univ. Complutense	BMSRAD
464	Spain	Madrid	Univ. Complutense	HYDROD
1144	Spain	Madrid	Univ. Nac. de Educacion a Distancia	LASERS
436	Spain	Madrid	Univ. Poli. de Madrid	CPBICF
666	Spain	Madrid	Univ. Poli. de Madrid	CPBICF
667	Spain	Madrid	Univ. Poli. de Madrid	CPBICF
991	Spain	Madrid	Univ. Poli. de Madrid	CPBICF
1028	Spain	Madrid	Univ. Poli. de Madrid	CPBICF
1045	Spain	Madrid	Univ. Poli. de Madrid	CPBICF
669	Spain	Madrid	Univ. Poli. de Madrid	HYDROD
670	Spain	Madrid	Univ. Poli. de Madrid	HYDROD
671	Spain	Madrid	Univ. Poli. de Madrid	HYDROD
631	Spain	Pais Vasco	Facultad de Ciencias	HYDROD
198	Spain	Santander	Univ. de Santander	PLASMA
430	Spain	Tarragona	Univ. de Barcelona	HYDROD
633	Sweden	Goteborg	Chalmers Univ. of Tech	PLASMA
520	Sweden	Goteborg	Chalmers Univ. of Tech.	PLASMA
564	Sweden	Goteborg	Chalmers Univ. of Tech.	PLASMA
67	Sweden	Goteborg	Chalmers Univ. of Tech.	SOLIDS
742	Sweden	Goteborg	Chalmers Univ. of Tech.	SOLIDS
823	Sweden	Lund	Univ. of Lund	ATOMIC
347	Sweden	Stockholm	Research Inst. of Physics	ATOMIC
87	Sweden	Stockholm	Royal Inst. of Tech	DIAGNO
105	Sweden	Stockholm	Royal Inst. of Tech.	DIAGNO
141	Sweden	Stockholm	Royal Inst. of Tech.	PLASMA
266	Sweden	Stockholm	Royal Inst. of Tech.	PLASMA
290	Sweden	Stockholm	Royal Inst. of Tech.	PLASMA
421	Sweden	Stockholm	Royal Inst. of Tech.	PLASMA
450	Sweden	Stockholm	Royal Inst. of Tech.	PLASMA
469	Sweden	Stockholm	Royal Inst. of Tech.	PLASMA

Rec ID	Country	City	Institute	Topic
528	Sweden	Stockholm	Royal Inst. of Tech.	PLASMA
380	Sweden	Stockholm	Swed. Rock Mech. Res. Found.	ENERGY
33	Sweden	Umea	Kiruna Geophys. Inst.	WETHER
35	Sweden	Umea	Kiruna Geophys. Inst.	WETHER
133	Sweden	Umea	Univ. of Umea	PLASMA
593	Sweden	Umea	Univ. of Umea	PLASMA
171	Sweden	Uppsala	Uppsala Univ.	ATOMIC
804	Sweden	Uppsala	Uppsala Univ.	DIAGNO
806	Sweden	Uppsala	Uppsala Univ.	DIAGNO
409	Switz	Baden-Dattwil	Brown Boveri & Cie Res. Cen.	BASICS
509	Switz	Baden-Dattwil	Brown Boveri & Cie Res. Cen.	CPBICF
618	Switz	Baden-Dattwil	Brown Boveri & Cie Res. Cen.	CPBICF
626	Switz	Baden-Dattwil	Brown Boveri & Cie Res. Cen.	CPBICF
1074	Switz	Bern	Inst. fur Angewandte Phys.	LASERS
1013	Switz	Bern	Univ. of Bern	CPBICF
1026	Switz	Bern	Univ. of Bern	CPBICF
44	Switz	Bern	Univ. of Bern	LASERS
556	Switz	Bern	Univ. of Bern	LASERS
601	Switz	Fribourg	Univ. of Fribourg	PLASMA
192	Switz	Geneva	CERN	BMSRAD
333	Switz	Geneva	CERN	BMSRAD
798	Switz	Geneva	CERN	BMSRAD
948	Switz	Geneva	CERN	BMSRAD
1164	Switz	Geneva	CERN	BMSRAD
411	Switz	Lausanne	Ecole Poly. Federale	ATOMIC
20	Switz	Lausanne	Ecole Poly. Federale	CHEMAT
396	Switz	Lausanne	Ecole Poly. Federale	CHEMAT
961	Switz	Lausanne	Ecole Poly. Federale	CPBICF
755	Switz	Lausanne	Ecole Poly. Federale	LASERS
756	Switz	Lausanne	Ecole Poly. Federale	LASERS
1181	Switz	Lausanne	Ecole Poly. Federale	LASERS
1189	Switz	Lausanne	Ecole Poly. Federale	LASERS
3	Switz	Lausanne	Ecole Poly. Federale	PLASMA
140	Switz	Lausanne	Ecole Poly. Federale	PLASMA
218	Switz	Lausanne	Ecole Poly. Federale	PLASMA
957	Switz	Lausanne	Ecole Poly. Federale	PLASMA
966	Switz	Lausanne	Ecole Poly. Federale	PLASMA
1183	Switz	Lausanne	Ecole Poly. Federale	PLASMA
1184	Switz	Lausanne	Ecole Poly. Federale	PLASMA
1185	Switz	Lausanne	Ecole Poly. Federale	PLASMA
1186	Switz	Lausanne	Ecole Poly. Federale	PLASMA
1187	Switz	Lausanne	Ecole Poly. Federale	PLASMA
1188	Switz	Lausanne	Ecole Poly. Federale	PLASMA
1190	Switz	Lausanne	Ecole Poly. Federale	PLASMA
963	Switz	Villigen	Swiss Inst. for Nucl. Phys.	PLASMA
1161	Switz	Villigen	Swiss Inst. for Nucl. Res.	BMSRAD
1163	Switz	Villigen	Swiss Inst. for Nucl. Res.	BMSRAD
1162	Switz	Villigen	Swiss Inst. for Nucl. Res.	PLASMA
965	Switz	Wuerenlingen	Swiss Fed. Inst. for Reactor Res.	CPBICF
99	Switz	Zurich	Eidgenossisch Tech. H.S.	DIAGNO
150	Switz	Zurich	ETH Zurich	BASICS
298	Switz	Zurich	ETH Zurich	LASERS

<u>Rec ID</u>	<u>Country</u>	<u>City</u>	<u>Institute</u>	<u>Topic</u>
757	Switz	Zurich	ETH Zurich	LASERS
758	Switz	Zurich	ETH Zurich	LASERS
690	Switz	Zurich	ETH Zurich	SOLIDS
723	Switz	Zurich	ETH Zurich	SOLIDS
695	Switz	Zurich	ETH Zurich	WETHER
721	Switz	Zurich	ETH Zurich	WETHER
1117	Switz	Zurich	IBM Zurich Research Lab.	BASICS
84	Switz	Zurich	IBM Zurich Research Lab.	DIAGNO
93	Switz	Zurich	IBM Zurich Research Lab.	DIAGNO
340	Switz	Zurich	IBM Zurich Research Lab.	DIAGNO
372	Switz	Zurich	IBM Zurich Research Lab.	SOLIDS
398	Switz	Zurich	Univ. of Zurich	BASICS
1160	Switz	Zurich	Univ. of Zurich	BMSRAD
442	Turkey	Istanbul	Bosphorus Univ.	HYDROD
174	UK		Chemical Discoveries	ENERGY
86	UK		Rank Wharfedale	DIAGNO
177	UK		Royal Sussex County Hosp.	DIAGNO
248	UK		Sea Energy Assoc. Ltd.	ENERGY
565	UK	Aberdeen	Univ. of Aberdeen	DIAGNO
14	UK	Abingdon	Culham Lab.	CHEMAT
368	UK	Abingdon	Culham Lab.	CHEMAT
1196	UK	Abingdon	Culham Lab.	CPBICF
50	UK	Abingdon	Culham Lab.	LASERS
611	UK	Abingdon	Culham Lab.	LASERS
1062	UK	Abingdon	Culham Lab.	LASERS
515	UK	Abingdon	Culham Lab.	PLAMSA
126	UK	Abingdon	Culham Lab.	PLASMA
138	UK	Abingdon	Culham Lab.	PLASMA
139	UK	Abingdon	Culham Lab.	PLASMA
304	UK	Abingdon	Culham Lab.	PLASMA
428	UK	Abingdon	Culham Lab.	PLASMA
449	UK	Abingdon	Culham Lab.	PLASMA
497	UK	Abingdon	Culham Lab.	PLASMA
516	UK	Abingdon	Culham Lab.	PLASMA
527	UK	Abingdon	Culham Lab.	PLASMA
571	UK	Abingdon	Culham Lab.	PLASMA
635	UK	Abingdon	Culham Lab.	PLASMA
736	UK	Abingdon	Culham Lab.	PLASMA
949	UK	Abingdon	Culham Lab.	PLASMA
1034	UK	Aldermaston	Atomic Weapons Res. Etab.	CPBICF
1030	UK	Bangor	Univ. Col. of North Wales	CPBICF
863	UK	Bangor	Univ. of Wales	CPBICF
12	UK	Bath	Univ. of Bath	CHEMAT
312	UK	Belfast	Queen's Univ.	ATOMIC
850	UK	Belfast	Queen's Univ.	CPBICF
969	UK	Belfast	Queen's Univ.	CPBICF
842	UK	Belfast	Queen's Univ.	LASERS
448	UK	Birmingham	Univ. of Aston	BMSRAD
247	UK	Birmingham	Univ. of Aston	CPBICF
283	UK	Birmingham	Univ. of Aston	CPBICF
303	UK	Birmingham	Univ. of Aston	CPBICF
652	UK	Birmingham	Univ. of Aston	CPBICF

Rec ID	Country	City	Institute	Topic
580	UK	Birmingham	Univ. of Birmingham	ATOMIC
287	UK	Birmingham	Univ. of Birmingham	BMSRAD
624	UK	Birmingham	Univ. of Birmingham	CPBICF
1048	UK	Birmingham	Univ. of Birmingham	CPBICF
106	UK	Birmingham	Univ. of Birmingham	DIAGNO
445	UK	Birmingham	Univ. of Birmingham	DIAGNO
935	UK	Bracknell	Geophys. Fluid Dynam. Lab.	WETHER
239	UK	Bracknell	Meteorological Office	WETHER
615	UK	Bradford	Univ. of Bradford	CHEMAT
241	UK	Brickendonbury	Rubber Producers' Res. Assoc.	HYDROD
193	UK	Brighton	Univ. of Sussex	LASERS
179	UK	Brighton	Univ. of Sussex	PLASMA
34	UK	Brighton	Univ. of Sussex	WETHER
1033	UK	Bristol	Bristol Univ.	CPBICF
1047	UK	Bristol	Bristol Univ.	CPBICF
107	UK	Bristol	Bristol Univ.	DIAGNO
39	UK	Bristol	British Aerospace Dynamics	LASERS
43	UK	Bristol	British Aerospace Dynamics	LASERS
937	UK	Cambridge	Brit. Antarctic Survey	WETHER
644	UK	Cambridge	Cavendish Lab.	BASICS
299	UK	Cambridge	Cavendish Lab.	CHEMAT
271	UK	Cambridge	Cavendish Lab.	DIAGNO
269	UK	Cambridge	Cavendish Lab.	LASERS
936	UK	Cambridge	Cavendish Lab.	WETHER
797	UK	Cambridge	Inst. of Astronomy	BMSRAD
471	UK	Cambridge	Polar Res. Inst.	HYDROD
1208	UK	Cambridge	Univ. of Cambridge	BASICS
17	UK	Cambridge	Univ. of Cambridge	CHEMAT
268	UK	Cambridge	Univ. of Cambridge	CHEMAT
613	UK	Cambridge	Univ. of Cambridge	DIAGNO
363	UK	Cambridge	Univ. of Cambridge	ENERGY
472	UK	Cambridge	Univ. of Cambridge	HYDROD
608	UK	Cambridge	Univ. of Cambridge	HYDROD
885	UK	Cambridge	Univ. of Cambridge	HYDROD
938	UK	Cambridge	Univ. of Cambridge	HYDROD
685	UK	Cambridge	Univ. of Cambridge	SOLIDS
191	UK	Cambridge	Univ. of Cambridge	WETHER
583	UK	Cambridge	Univ. of Cambridge	WETHER
659	UK	Cambridge	Univ. of Cambridge	WETHER
911	UK	Cambridge	Univ. of Cambridge	WETHER
657	UK	Canterbury	Univ. of Canterbury	BASICS
658	UK	Canterbury	Univ. of Kent	BASICS
301	UK	Cardiff	Univ. College	DIAGNO
460	UK	Cardiff	Univ. College	DIAGNO
572	UK	Cardiff	Univ. College	DIAGNO
36	UK	Cardiff	Univ. College	WETHER
560	UK	Cardiff	Univ. College	WETHER
185	UK	Cardiff	UWIST	SOLIDS
345	UK	Cardiff	UWIST	SOLIDS
694	UK	Cardiff	UWIST	SOLIDS
697	UK	Cardiff	UWIST	WETHER
29	UK	Carmarthen Bay	Central Elec. Gen. Board	ENERGY

<u>Rec ID</u>	<u>Country</u>	<u>City</u>	<u>Institute</u>	<u>Topic</u>
72	UK	Cheltenham	Govt. Communications HQ	COMPUT
267	UK	Chester	Thornton Research Cen.	HYDROD
254	UK	Colchester	Univ. of Essex	BMSRAD
575	UK	Colchester	Univ. of Essex	CPBICF
997	UK	Colchester	Univ. of Essex	CPBICF
1037	UK	Colchester	Univ. of Essex	CPBICF
691	UK	Colchester	Univ. of Essex	DIAGNO
479	UK	Coleraine, N. Ire.	New Univ. of Ulster	PLASMA
378	UK	Cranfield	Cranfield Inst. of Tech	DIAGNO
90	UK	Cranfield	Cranfield Inst. of Tech.	DIAGNO
1127	UK	Didcot	AERE Harwell	BMSRAD
237	UK	Didcot	AERE Harwell	CHEMAT
1126	UK	Didcot	AERE Harwell	CHEMAT
1136	UK	Didcot	AERE Harwell	CHEMAT
275	UK	Didcot	AERE Harwell	DIAGNO
465	UK	Didcot	AERE Harwell	PLASMA
203	UK	Didcot	AERE Harwell	SOLIDS
9	UK	Didcot	Rutherford Appleton Lab	CPBICF
163	UK	Didcot	Rutherford Appleton Lab.	BMSRAD
793	UK	Didcot	Rutherford Appleton Lab.	BMSRAD
946	UK	Didcot	Rutherford Appleton Lab.	BMSRAD
229	UK	Didcot	Rutherford Appleton Lab.	CPBICF
511	UK	Didcot	Rutherford Appleton Lab.	CPBICF
535	UK	Didcot	Rutherford Appleton Lab.	CPBICF
831	UK	Didcot	Rutherford Appleton Lab.	CPBICF
832	UK	Didcot	Rutherford Appleton Lab.	CPBICF
847	UK	Didcot	Rutherford Appleton Lab.	CPBICF
848	UK	Didcot	Rutherford Appleton Lab.	CPBICF
857	UK	Didcot	Rutherford Appleton Lab.	CPBICF
859	UK	Didcot	Rutherford Appleton Lab.	CPBICF
860	UK	Didcot	Rutherford Appleton Lab.	CPBICF
861	UK	Didcot	Rutherford Appleton Lab.	CPBICF
862	UK	Didcot	Rutherford Appleton Lab.	CPBICF
866	UK	Didcot	Rutherford Appleton Lab.	CPBICF
1000	UK	Didcot	Rutherford Appleton Lab.	CPBICF
1007	UK	Didcot	Rutherford Appleton Lab.	CPBICF
1015	UK	Didcot	Rutherford Appleton Lab.	CPBICF
1040	UK	Didcot	Rutherford Appleton Lab.	CPBICF
1054	UK	Didcot	Rutherford Appleton Lab.	CPBICF
1195	UK	Didcot	Rutherford Appleton Lab.	CPBICF
588	UK	Didcot	Rutherford Appleton Lab.	DIAGNO
240	UK	Didcot	Rutherford Appleton Lab.	LASERS
405	UK	Didcot	Rutherford Appleton Lab.	LASERS
828	UK	Didcot	Rutherford Appleton Lab.	LASERS
829	UK	Didcot	Rutherford Appleton Lab.	LASERS
830	UK	Didcot	Rutherford Appleton Lab.	LASERS
835	UK	Didcot	Rutherford Appleton Lab.	LASERS
836	UK	Didcot	Rutherford Appleton Lab.	LASERS
838	UK	Didcot	Rutherford Appleton Lab.	LASERS
840	UK	Didcot	Rutherford Appleton Lab.	LASERS
92	UK	Dorking	Mullard Space Sci. Lab.	DIAGNO
1112	UK	Dundee	Univ. of Dundee	BASICS

<u>Rec ID</u>	<u>Country</u>	<u>City</u>	<u>Institute</u>	<u>Topic</u>
344	UK	Durham	Durham Univ	SOLIDS
642	UK	Durham	Durham Univ.	SOLIDS
942	UK	Durham	Durham Univ.	SOLIDS
481	UK	Dyfed	Univ. College of Wales	HYDROD
30	UK	East Kilbride	Nat. Engng. Lab.	HYDROD
614	UK	Edinburgh	Heriot Watt Univ.	CHEMAT
148	UK	Edinburgh	Heriot Watt Univ.	LASERS
190	UK	Edinburgh	Heriot Watt Univ.	LASERS
712	UK	Edinburgh	Heriot Watt Univ.	LASERS
884	UK	Edinburgh	Heriot Watt Univ.	LASERS
1205	UK	Edinburgh	Heriot Watt Univ.	LASERS
223	UK	Edinburgh	Heriot Watt Univ.	SOLIDS
674	UK	Edinburgh	Heriot Watt Univ.	SOLIDS
675	UK	Edinburgh	Heriot Watt Univ.	SOLIDS
676	UK	Edinburgh	Heriot Watt Univ.	SOLIDS
679	UK	Edinburgh	Heriot Watt Univ.	SOLIDS
684	UK	Edinburgh	Heriot Watt Univ.	SOLIDS
1120	UK	Edinburgh	Univ. of Edinburgh	BASICS
424	UK	Edinburgh	Univ. of Edinburgh	HYDROD
58	UK	Edinburgh	Univ. of Edinburgh	SOLIDS
196	UK	Egham Hill	Royal Holloway Col.	WETHER
833	UK	Essex	Univ. of Essex	CPBICF
843	UK	Essex	Univ. of Essex	CPBICF
589	UK	Exeter	Univ. of Exeter	BASICS
882	UK	Glasgow	Glasgow College of Tech.	BASICS
295	UK	Glasgow	Univ. of Glasgow	BASICS
288	UK	Glasgow	Univ. of Glasgow	CPBICF
868	UK	Glasgow	Univ. of Glasgow	CPBICF
381	UK	Glasgow	Univ. of Strathclyde	ENERGY
53	UK	Glasgow	Univ. of Strathclyde	LASERS
183	UK	Glasgow	Univ. of Strathclyde	LASERS
302	UK	Glasgow	Univ. of Strathclyde	LASERS
79	UK	Godalming	Inst. of Oceanographic Sci.	HYDROD
80	UK	Godalming	Inst. of Oceanographic Sci.	WETHER
645	UK	Great Malvern	Royal Sig. & Radar Estab.	BASICS
595	UK	Great Malvern	Royal Sig. & Radar Estab.	HYDROD
273	UK	Great Malvern	Royal Sig. & Radar Estab.	LASERS
286	UK	Great Malvern	Royal Sig. & Radar Estab.	LASERS
483	UK	Great Malvern	Royal Sig. & Radar Estab.	LASERS
60	UK	Great Malvern	Royal Sig. & Radar Estab.	SOLIDS
603	UK	Great Malvern	Royal Sig. & Radar Estab.	SOLIDS
672	UK	Great Malvern	Royal Sig. & Radar Estab.	SOLIDS
681	UK	Great Malvern	Royal Sig. & Radar Estab.	SOLIDS
893	UK	Great Malvern	Royal Sig. & Radar Estab.	WETHER
513	UK	Guildford	Univ. of Surrey	HYDROD
427	UK	Guildford	Univ. of Surrey	SOLIDS
462	UK	Hull	Univ. of Hull	CHEMAT
858	UK	Hull	Univ. of Hull	COMPUT
570	UK	Hull	Univ. of Hull	CPBICF
577	UK	Hull	Univ. of Hull	CPBICF
1135	UK	Hull	Univ. of Hull	HYDROD
49	UK	Hull	Univ. of Hull	LASERS

<u>Rec ID</u>	<u>Country</u>	<u>City</u>	<u>Institute</u>	<u>Topic</u>
320	UK	Hull	Univ. of Hull	LASERS
461	UK	Hull	Univ. of Hull	LASERS
488	UK	Hull	Univ. of Hull	LASERS
853	UK	Hull	Univ. of Hull	LASERS
1043	UK	Hull	Univ. of Hull	LASERS
395	UK	Ipswich	British Telecom Res. Labs	LASERS
279	UK	Ipswich	EDI Electronic Engineering	ENERGY
412	UK	Lancaster	Univ. of Lancaster	SOLIDS
1104	UK	Lancaster	Univ. of Lancaster	SOLIDS
69	UK	Leeds	Univ. of Leeds	COMPUT
88	UK	Leeds	Univ. of Leeds	DIAGNO
19	UK	Leeds	Univ. of Leeds	ENERGY
422	UK	Leicester	Thorn EMI Lighting Ltd	BMSRAD
376	UK	Leicester	Thorn EMI Lighting Ltd.	BMSRAD
108	UK	Leicester	Univ. of Leicester	DIAGNO
276	UK	Leicester	Univ. of Leicester	DIAGNO
31	UK	Leicester	Univ. of Leicester	WETHER
341	UK	Leicester	Univ. of Leicester	WETHER
1121	UK	Little Paxton	Dwight Cavendish Co.	COMPUT
1124	UK	Liverpool	Univ. of Liverpool	CHEMAT
574	UK	Liverpool	Univ. of Liverpool	CPBICF
931	UK	Liverpool	Univ. of Liverpool	ENERGY
1122	UK	Liverpool	Univ. of Liverpool	HYDROD
1123	UK	Liverpool	Univ. of Liverpool	HYDROD
1125	UK	Liverpool	Univ. of Liverpool	HYDROD
525	UK	London	City of London Poly	HYDROD
280	UK	London	Imperial College	ATOMIC
825	UK	London	Imperial College	ATOMIC
1041	UK	London	Imperial College	ATOMIC
386	UK	London	Imperial College	BASICS
1103	UK	London	Imperial College	BASICS
265	UK	London	Imperial College	CPBICF
517	UK	London	Imperial College	CPBICF
578	UK	London	Imperial College	CPBICF
630	UK	London	Imperial College	CPBICF
834	UK	London	Imperial College	CPBICF
845	UK	London	Imperial College	CPBICF
846	UK	London	Imperial College	CPBICF
849	UK	London	Imperial College	CPBICF
851	UK	London	Imperial College	CPBICF
852	UK	London	Imperial College	CPBICF
855	UK	London	Imperial College	CPBICF
856	UK	London	Imperial College	CPBICF
865	UK	London	Imperial College	CPBICF
867	UK	London	Imperial College	CPBICF
970	UK	London	Imperial College	CPBICF
972	UK	London	Imperial College	CPBICF
983	UK	London	Imperial College	CPBICF
984	UK	London	Imperial College	CPBICF
986	UK	London	Imperial College	CPBICF
1010	UK	London	Imperial College	CPBICF
1027	UK	London	Imperial College	CPBICF

<u>Rec ID</u>	<u>Country</u>	<u>City</u>	<u>Institute</u>	<u>Topic</u>
1031	UK	London	Imperial College	CPBICF
1032	UK	London	Imperial College	CPBICF
1038	UK	London	Imperial College	CPBICF
1050	UK	London	Imperial College	CPBICF
1053	UK	London	Imperial College	CPBICF
1216	UK	London	Imperial College	CPBICF
112	UK	London	Imperial College	DIAGNO
518	UK	London	Imperial College	LASERS
839	UK	London	Imperial College	LASERS
981	UK	London	Imperial College	LASERS
244	UK	London	Imperial College	PLASMA
498	UK	London	Imperial College	PLASMA
224	UK	London	Imperial College	SOLIDS
641	UK	London	Imperial College	WETHER
310	UK	London	King's College	ATOMIC
563	UK	London	King's College	BASICS
447	UK	London	Queen Elizabeth College	WETHER
883	UK	London	Queen Mary College	BASICS
23	UK	London	Queen Mary College	ENERGY
544	UK	London	Queen Mary College	PLASMA
65	UK	London	Queen Mary College	SOLIDS
425	UK	London	Queen Mary College	WETHER
228	UK	London	Univ. College	DIAGNO
342	UK	London	Univ. College	DIAGNO
504	UK	London	Univ. College	SOLIDS
296	UK	London	Univ. of London	BASICS
704	UK	London	Univ. of London	BMSRAD
73	UK	London	Univ. of London	COMPUT
740	UK	London	Univ. of London	DIAGNO
760	UK	London	Univ. of London	SOLIDS
623	UK	London	Westfield College	CPBICF
68	UK	Manchester	Manchester Univ.	COMPUT
594	UK	Manchester	Manchester Univ.	HYDROD
482	UK	Manchester	Manchester Univ.	LASERS
524	UK	Manchester	Manchester Univ.	LASERS
1093	UK	Manchester	UMIST	ATOMIC
1094	UK	Manchester	UMIST	ATOMIC
1098	UK	Manchester	UMIST	BASICS
1105	UK	Manchester	UMIST	BASICS
205	UK	Manchester	UMIST	DIAGNO
206	UK	Manchester	UMIST	PLASMA
1092	UK	Manchester	UMIST	PLASMA
653	UK	Manchester	UMIST	SOLIDS
1095	UK	Manchester	UMIST	SOLIDS
1096	UK	Manchester	UMIST	SOLIDS
1097	UK	Manchester	UMIST	SOLIDS
176	UK	Marchwood	CEGB Engineering Labs.	DIAGNO
291	UK	Marchwood	CEGB Engineering Labs.	HYDROD
261	UK	Newcastle upon Tyne	Newcastle Poly.	BMSRAD
1106	UK	Newcastle upon Tyne	Univ. of Newcastle upon Tyne	BASICS
26	UK	Norwich	Univ. of East Anglia	ENERGY
696	UK	Oxford	Clarendon Lab.	WETHER

<u>Rec ID</u>	<u>Country</u>	<u>City</u>	<u>Institute</u>	<u>Topic</u>
459	UK	Oxford	Clarendon Lab.	BASICS
871	UK	Oxford	Clarendon Lab.	BASICS
875	UK	Oxford	Clarendon Lab.	BASICS
950	UK	Oxford	Clarendon Lab.	BMSRAD
837	UK	Oxford	Oxford Lasers Ltd.	LASERS
811	UK	Oxford	Oxford Univ.	ATOMIC
429	UK	Oxford	Oxford Univ.	BASICS
886	UK	Oxford	Oxford Univ.	BASICS
1101	UK	Oxford	Oxford Univ.	BASICS
841	UK	Oxford	Oxford Univ.	CHEMAT
74	UK	Oxford	Oxford Univ.	COMPUT
844	UK	Oxford	Oxford Univ.	CPBICF
85	UK	Oxford	Oxford Univ.	DIAGNO
89	UK	Oxford	Oxford Univ.	DIAGNO
101	UK	Oxford	Oxford Univ.	DIAGNO
335	UK	Oxford	Oxford Univ.	DIAGNO
632	UK	Oxford	Oxford Univ.	DIAGNO
255	UK	Oxford	Oxford Univ.	ENERGY
277	UK	Oxford	Oxford Univ.	ENERGY
314	UK	Oxford	Oxford Univ.	HYDROD
392	UK	Oxford	Oxford Univ.	PLASMA
77	UK	Plymouth	Marine Biological Assoc. of UK	HYDROD
551	UK	Reading	Univ. of Reading	ENERGY
375	UK	Redhill	Philips Research Labs.	BMSRAD
749	UK	Redhill	Philips Research Labs.	WETHER
175	UK	Scunthorpe	Flexible Laser Systems	COMPUT
750	UK	Seven Oaks	Royal Armament Res. & Devel. Estab.	WETHER
573	UK	Sheffield	Health & Safety Executive	HYDROD
274	UK	Slough	Admiralty Compass Observatory	DIAGNO
606	UK	Southampton	Univ. of Southampton	SOLIDS
864	UK	St. Andrews	Univ. of St. Andrews	CPBICF
869	UK	St. Andrews	Univ. of St. Andrews	CPBICF
521	UK	St. Andrews	Univ. of St. Andrews	PLASMA
541	UK	St. Andrews	Univ. of St. Andrews	WETHER
584	UK	St. Andrews	Univ. of St. Andrews	WETHER
25	UK	Sunbury	Brit. Petrol Res. Lab.	ENERGY
71	UK	Surrey	Univ. of Surrey	COMPUT
282	UK	Swansea (Wales)	Univ. Coll. of Swansea	LASERS
801	UK	Teddington	Nat. Phys. Lab.	BMSRAD
765	UK	Teddington	Nat. Phys. Lab.	CHEMAT
111	UK	Teddington	Nat. Phys. Lab.	DIAGNO
178	UK	Teddington	Nat. Phys. Lab.	DIAGNO
720	UK	Teddington	Nat. Phys. Lab.	DIAGNO
773	UK	Teddington	Nat. Phys. Lab.	SOLIDS
390	UK	Teddington	National Maritime Inst.	HYDROD
919	UK	Warrington	Daresbury Lab.	BMSRAD
941	UK	Warrington	Daresbury Lab.	BMSRAD
943	UK	Warrington	Daresbury Lab.	BMSRAD
944	UK	Warrington	Daresbury Lab.	BMSRAD
109	UK	Warrington	Daresbury Lab.	DIAGNO
407	UK	Warrington	Daresbury Lab.	DIAGNO
408	UK	Warrington	Daresbury Lab.	DIAGNO

Rec ID	Country	City	Institute	Topic
916	UK	Warrington	Daresbury Lab.	DIAGNO
200	UK	Warrington	Daresbury Lab.	SOLIDS
940	UK	Warrington	Daresbury Lab.	SOLIDS
945	UK	Warrington	Daresbury Lab.	SOLIDS
939	UK	Warwick	Univ. of Warwick	ATOMIC
346	UK	Warwick	Univ. of Warwick	SOLIDS
496	UK	Welshpool	TLH	WETHER
62	UK	Wembley	Hirst Research Centre GEC	SOLIDS
463	UK	Wembley	Hirst Research Centre GEC	SOLIDS
550	UK	West Cornwall	Inst. for Geological Sci.	ENERGY
639	UK	Winchester	IBM UK Labs Ltd.	COMPUT
587	UK	York	Univ. of York	LASERS
552	W Ger	Aachen	Aachen Tech. College	CHEMAT
164	W Ger	Aachen	Philips GmbH Forsch.	BMSRAD
486	W Ger	Aachen	Philips GmbH Forsch.	BMSRAD
319	W Ger	Aachen	Reinisch-Westfalische Tech HS	ATOMIC
628	W Ger	Aachen	Tech. Univ. Aachen	BASICS
1206	W Ger	Aachen	Tech. Univ. Aachen	CHEMAT
808	W Ger	Berlin	BESSY GmbH	DIAGNO
592	W Ger	Berlin	Freie Univ. Berlin	BASICS
114	W Ger	Berlin	Freie Univ. Berlin	DIAGNO
52	W Ger	Berlin	Inst. fur Festkorperphysik	LASERS
803	W Ger	Berlin	Phys-Tech Bundesanstalt	BMSRAD
168	W Ger	Berlin	Tech. Univ. Berlin	ATOMIC
824	W Ger	Bielefeld	Univ. Bielefeld	LASERS
908	W Ger	Bochum	Ruhr Univ.	ATOMIC
397	W Ger	Bochum	Ruhr Univ.	BMSRAD
456	W Ger	Bochum	Ruhr Univ.	CPBICF
473	W Ger	Bochum	Ruhr Univ.	CPBICF
643	W Ger	Bochum	Ruhr Univ.	CPBICF
996	W Ger	Bochum	Ruhr Univ.	CPBICF
998	W Ger	Bochum	Ruhr Univ.	CPBICF
1165	W Ger	Bochum	Ruhr Univ.	CPBICF
1167	W Ger	Bochum	Ruhr Univ.	CPBICF
1173	W Ger	Bochum	Ruhr Univ.	CPBICF
121	W Ger	Bochum	Ruhr Univ.	PLASMA
135	W Ger	Bochum	Ruhr Univ.	PLASMA
197	W Ger	Bochum	Ruhr Univ.	PLASMA
217	W Ger	Bochum	Ruhr Univ.	PLASMA
230	W Ger	Bochum	Ruhr Univ.	PLASMA
233	W Ger	Bochum	Ruhr Univ.	PLASMA
297	W Ger	Bochum	Ruhr Univ.	PLASMA
434	W Ger	Bochum	Ruhr Univ.	PLASMA
910	W Ger	Bochum	Ruhr Univ.	PLASMA
1168	W Ger	Bochum	Ruhr Univ.	PLASMA
1170	W Ger	Bochum	Ruhr Univ.	PLASMA
1171	W Ger	Bochum	Ruhr Univ.	PLASMA
1172	W Ger	Bochum	Ruhr Univ.	PLASMA
1174	W Ger	Bochum	Ruhr Univ.	PLASMA
1175	W Ger	Bochum	Ruhr Univ.	PLASMA
1176	W Ger	Bochum	Ruhr Univ.	PLASMA
1177	W Ger	Bochum	Ruhr Univ.	PLASMA

Rec ID	Country	City	Institute	Topic
1166	W Ger	Bochum	Ruhr Univ.	WETHER
1169	W Ger	Bochum	Ruhr Univ.	WETHER
700	W Ger	Bonn	MPI fur Radioastronomie	SOLIDS
762	W Ger	Bonn	MPI fur Radioastronomie	SOLIDS
716	W Ger	Bonn	MPI fur Radioastronomie	WETHER
766	W Ger	Braunschweig	Phys.-Tech. Bundesanstalt	LASERS
767	W Ger	Braunschweig	Phys.-Tech. Bundesanstalt	LASERS
768	W Ger	Braunschweig	Phys.-Tech. Bundesanstalt	LASERS
761	W Ger	Braunschweig	Phys.-Tech. Bundesanstalt	SOLIDS
894	W Ger	Darmstadt	Heavy Ion Res. Etab.	BASICS
914	W Ger	Darmstadt	Heavy Ion Res. Etab.	BASICS
947	W Ger	Darmstadt	Heavy Ion Res. Etab.	BMSRAD
915	W Ger	Darmstadt	Heavy Ion Res. Etab.	CPBICF
388	W Ger	Darmstadt	Inst. fur Angewandte Physik	HYDROD
1055	W Ger	Darmstadt	Tech. Hochschule	CHEMAT
414	W Ger	Darmstadt	Tech. Hochschule	CPBICF
431	W Ger	Darmstadt	Tech. Hochschule	CPBICF
895	W Ger	Darmstadt	Tech. Hochschule	CPBICF
902	W Ger	Darmstadt	Tech. Hochschule	CPBICF
987	W Ger	Darmstadt	Tech. Hochschule	CPBICF
994	W Ger	Darmstadt	Tech. Hochschule	CPBICF
477	W Ger	Dortmund	Univ. Dortmund	BASICS
214	W Ger	Dusseldorf	Univ. of Dusseldorf	CPBICF
1180	W Ger	Dusseldorf	Univ. of Dusseldorf	CPBICF
250	W Ger	Dusseldorf	Univ. of Dusseldorf	HYDROD
1089	W Ger	Dusseldorf	Univ. of Dusseldorf	LASERS
1179	W Ger	Dusseldorf	Univ. of Dusseldorf	PLASMA
1178	W Ger	Dusseldorf	Univ. of Dusseldorf	SOLIDS
778	W Ger	Erlangen	Univ. Erlangen	CPBICF
616	W Ger	Essen	Fachbereich Physik	PLASMA
201	W Ger	Essen	Univ. Essen	ATOMIC
145	W Ger	Essen	Univ. Essen	HYDROD
306	W Ger	Essen	Univ. Essen	HYDROD
42	W Ger	Essen	Univ. Essen	LASERS
466	W Ger	Essen	Univ. Essen	LASERS
377	W Ger	Essen	Univ. Essen	PLASMA
348	W Ger	Essen	Univ. Essen	SOLIDS
166	W Ger	Frankfurt	Goethe Univ.	ATOMIC
680	W Ger	Frankfurt	Goethe Univ.	SOLIDS
677	W Ger	Frankfurt	Univ. of Frankfurt	SOLIDS
1203	W Ger	Frankfurt	Univ. of Frankfurt	SOLIDS
487	W Ger	Freiburg	Fraunhofer Inst.	CHEMAT
912	W Ger	Freiburg	Klepenheuer Inst.	WETHER
909	W Ger	Garching	MPI fur Physik und Astrophys.	COMPUT
117	W Ger	Garching	MPI fur Physik und Astrophys.	DIAGNO
118	W Ger	Garching	MPI fur Physik und Astrophys.	DIAGNO
119	W Ger	Garching	MPI fur Physik und Astrophys.	DIAGNO
597	W Ger	Garching	MPI fur Physik und Astrophys.	WETHER
795	W Ger	Garching	MPI fur Plasmaphysik	BMSRAD
4	W Ger	Garching	MPI fur Plasmaphysik	CPBICF
1215	W Ger	Garching	MPI fur Plasmaphysik	DIAGNO
123	W Ger	Garching	MPI fur Plasmaphysik	PLASMA

Rec ID	Country	City	Institute	Topic
125	W Ger	Garching	MPI fur Plasmaphysik	PLASMA
202	W Ger	Garching	MPI fur Plasmaphysik	PLASMA
231	W Ger	Garching	MPI fur Plasmaphysik	PLASMA
305	W Ger	Garching	MPI fur Plasmaphysik	PLASMA
361	W Ger	Garching	MPI fur Plasmaphysik	PLASMA
703	W Ger	Garching	MPI fur Plasmaphysik	PLASMA
896	W Ger	Garching	MPI fur Plasmaphysik	PLASMA
897	W Ger	Garching	MPI fur Plasmaphysik	PLASMA
898	W Ger	Garching	MPI fur Plasmaphysik	PLASMA
899	W Ger	Garching	MPI fur Plasmaphysik	PLASMA
901	W Ger	Garching	MPI fur Plasmaphysik	PLASMA
905	W Ger	Garching	MPI fur Plasmaphysik	PLASMA
1182	W Ger	Garching	MPI fur Plasmaphysik	PLASMA
285	W Ger	Garching	MPI fur Quantenoptik	CPBICF
367	W Ger	Garching	MPI fur Quantenoptik	CPBICF
907	W Ger	Garching	MPI fur Quantenoptik	CPBICF
995	W Ger	Garching	MPI fur Quantenoptik	CPBICF
999	W Ger	Garching	MPI fur Quantenoptik	CPBICF
1006	W Ger	Garching	MPI fur Quantenoptik	CPBICF
1008	W Ger	Garching	MPI fur Quantenoptik	CPBICF
1046	W Ger	Garching	MPI fur Quantenoptik	CPBICF
711	W Ger	Garching	MPI fur Quantenoptik	LASERS
800	W Ger	Garching	MPI fur Quantenoptik	LASERS
433	W Ger	Garching	MPI fur Quantenoptik	PLASMA
55	W Ger	Garching	MPI fur Quantenoptik	SOLIDS
144	W Ger	Garching	Tech. Univ. der Munchen	BASICS
900	W Ger	Garching	Tech. Univ. der Munchen	LASERS
359	W Ger	Garching	Univ. Munchen	LASERS
102	W Ger	Gottingen	MPI for Fluid Dynamics	DIAGNO
110	W Ger	Gottingen	MPI fur BiophysikalischeChemie	DIAGNO
612	W Ger	Gottingen	MPI fur BiophysikalischeChemie	SOLIDS
336	W Ger	Gottingen	MPI fur Stromungsforsch	HYDROD
389	W Ger	Gottingen	MPI fur Stromungsforsch	HYDROD
646	W Ger	Gottingen	Univ. of Gottingen	BASICS
115	W Ger	Gottingen	Univ. of Gottingen	DIAGNO
116	W Ger	Gottingen	Univ. of Gottingen	DIAGNO
78	W Ger	Gottingen	Univ. of Gottingen	HYDROD
794	W Ger	Hamburg	DESY	BMSRAD
796	W Ger	Hamburg	DESY	BMSRAD
819	W Ger	Hamburg	Univ. of Hamburg	ATOMIC
821	W Ger	Hamburg	Univ. of Hamburg	ATOMIC
1109	W Ger	Hannover	Univ. of Hannover	BASICS
903	W Ger	Heidelberg	Univ. of Heidelberg	ATOMIC
918	W Ger	Heidelberg	Univ. of Heidelberg	BASICS
76	W Ger	Heidelberg	Univ. of Heidelberg	COMPUT
45	W Ger	Heidelberg	Univ. of Heidelberg	LASERS
160	W Ger	Julich	Inst. fur Fest. der Kern.	BMSRAD
278	W Ger	Julich	Inst. fur Fest. der Kern.	SOLIDS
420	W Ger	Julich	Kernforsch. Julich	BASICS
1212	W Ger	Julich	Kernforsch. Julich	BASICS
788	W Ger	Julich	Kernforsch. Julich	BMSRAD
393	W Ger	Julich	Kernforsch. Julich	HYDROD

Rec ID	Country	City	Institute	Topic
364	W Ger	Julich	Kernforsch. Julich	PLASMA
468	W Ger	Julich	Kernforsch. Julich	PLASMA
738	W Ger	Julich	Kernforsch. Julich	PLASMA
1158	W Ger	Julich	Kernforsch. Julich	PLASMA
1159	W Ger	Julich	Kernforsch. Julich	PLASMA
609	W Ger	Julich	Kernforsch. Julich	SOLIDS
1157	W Ger	Julich	Kernforsch. Julich	SOLIDS
980	W Ger	Kaiserslautern	Univ. Kaiserslautern	CPBICF
992	W Ger	Kaiserslautern	Univ. Kaiserslautern	CPBICF
1020	W Ger	Kaiserslautern	Univ. Kaiserslautern	CPBICF
562	W Ger	Kaiserslautern	Univ. Kaiserslautern	LASERS
1057	W Ger	Kaiserslautern	Univ. Kaiserslautern	LASERS
777	W Ger	Karlsruhe	Kernforsch. Karlsruhe	CPBICF
249	W Ger	Karlsruhe	Kernforsch. Karlsruhe	BMSRAD
379	W Ger	Karlsruhe	Kernforsch. Karlsruhe	CHEMAT
10	W Ger	Karlsruhe	Kernforsch. Karlsruhe	CPBICF
906	W Ger	Karlsruhe	Kernforsch. Karlsruhe	CPBICF
1044	W Ger	Karlsruhe	Univ. of Karlsruhe	CPBICF
904	W Ger	Karlsruhe	Univ. of Karlsruhe	HYDROD
559	W Ger	Kiel	Univ. of Kiel	HYDROD
876	W Ger	Kiel	Univ. of Kiel	HYDROD
505	W Ger	Lindau	MPI fur Aeronomie	DIAGNO
38	W Ger	Lindau	MPI fur Aeronomie	WETHER
503	W Ger	Marburg	Phillips Univ.	SOLIDS
917	W Ger	Marburg	Univ. of Marburg	BASICS
97	W Ger	Munich	Abteilung fur Okologische	DIAGNO
492	W Ger	Munich	Hochs. der Bundeswehr	HYDROD
188	W Ger	Munich	Technische Univ.	LASERS
475	W Ger	Munich	Univ. Munchen	SOLIDS
349	W Ger	Munster	Univ. Munster	BASICS
184	W Ger	Munster	Univ. Munster	LASERS
1201	W Ger	Munster	Univ. Munster	LASERS
222	W Ger	Neubiberg	Hochschule de Bundeswehr	DIAGNO
370	W Ger	Neuherberg	Gesellschaft fur Strahlen	ATOMIC
985	W Ger	Regensburg	Univ. Regensburg	BASICS
733	W Ger	Regensburg	Univ. Regensburg	SOLIDS
113	W Ger	Sindelfingen	IBM Deutschland GmbH	DIAGNO
1058	W Ger	Stuttgart	DFVLR	LASERS
1077	W Ger	Stuttgart	DFVLR	LASERS
1078	W Ger	Stuttgart	DFVLR	LASERS
1079	W Ger	Stuttgart	DFVLR	LASERS
1081	W Ger	Stuttgart	DFVLR	LASERS
688	W Ger	Stuttgart	MPI fur Festkorperforschung	ATOMIC
432	W Ger	Stuttgart	MPI fur Festkorperforschung	CHEMAT
91	W Ger	Stuttgart	MPI fur Festkorperforschung	DIAGNO
96	W Ger	Stuttgart	MPI fur Festkorperforschung	DIAGNO
187	W Ger	Stuttgart	MPI fur Festkorperforschung	SOLIDS
689	W Ger	Stuttgart	MPI fur Festkorperforschung	SOLIDS
732	W Ger	Stuttgart	MPI fur Festkorperforschung	SOLIDS
391	W Ger	Stuttgart	MPI fur Metallforsch	BMSRAD
506	W Ger	Stuttgart	Univ. Stuttgart	CPBICF
532	W Ger	Stuttgart	Univ. Stuttgart	CPBICF

<u>Rec ID</u>	<u>Country</u>	<u>City</u>	<u>Institute</u>	<u>Topic</u>
548	W Ger	Stuttgart	Univ. Stuttgart	CPBICF
959	W Ger	Stuttgart	Univ. Stuttgart	CPBICF
710	W Ger	Stuttgart	Univ. Stuttgart	LASERS
136	W Ger	Stuttgart	Univ. Stuttgart	PLASMA
204	W Ger	Stuttgart	Univ. Stuttgart	PLASMA
735	W Ger	Stuttgart	Univ. Stuttgart	PLASMA
737	W Ger	Stuttgart	Univ. Stuttgart	PLASMA
490	W Ger	Stuttgart	Univ. Stuttgart	SOLIDS
873	W Ger	Tubingen	Univ. Tubingen	BASICS
568	W Ger	Tubingen	Univ. Tubingen	DIAGNO
63	W Ger	Tubingen	Univ. Tubingen	SOLIDS
726	W Ger	Ulm	Univ. Ulm	LASERS
419	W Ger	Wuppertal	Univ. of Wuppertal	BASICS
730	W Ger	Wurzburg	Physikalisches Inst.	ATOMIC
745	W Ger	Wurzburg	Univ. Wurzburg	SOLIDS
147	Yugos	Belgrade	Kidric Inst. of Nuclear Sci.	PLASMA
317	Yugos	Belgrade	Kidric Inst. of Nuclear Sci.	PLASMA
322	Yugos	Belgrade	Kidric Inst. of Nuclear Sci.	PLASMA
962	Yugos	Maribor	Univ. of Maribor	CPBICF
818	Yugos	Zagreb	Inst. Rudjer Boskovic	ATOMIC

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