

EPS General Conference

Wiesbaden, 3-6 October 1972

Theme: Trends in Physics

The programme is now complete for this Second General Conference of the European Physical Society.

The theme of the Conference, which is organized on behalf of EPS by the German Physical Society, is 'Trends in Physics'. The contribution of physics to modern science, its close relationship with modern technology and its impact on society-at-large will be emphasized.

An associated Physics Exhibition will display the latest devices, instrumentation and literature for physics. The final programme is set out below and contains details of speakers at the plenary sessions in the mornings and evenings. The afternoons of Tuesday, Thursday and Friday are devoted to parallel sessions arranged by the specialized Divisions of EPS. On Tuesday evening, a special session to debate the EPS report 'Physics and Society — Public Policy and Current

Prospects' will be led by G. Diemer, Eindhoven.

Supplementary Programme

Full details of exhibitors, the social and ladies' programmes, together with the timetable of the Conference will be published in the Supplementary Programme available in Wiesbaden to all participants.

Travel

Participants are required to make their own travel arrangements for the Conference. It is worth pointing out that there is a direct rail link from the new Frankfurt Airport to Wiesbaden. There will be a travel desk at the Conference for those participants who wish to make plans for their return journeys.

Abstracts and Plenary Lectures

Abstracts will be sent to Conference participants who register before 10

September. Other participants may collect their copies when they arrive in Wiesbaden. Non-participants may purchase the Abstracts from EPS for Sw. Frs 10.— (including postage).

The Plenary Lectures will be published in full by EPS early in 1973 and may be purchased for Sw. Frs 55.— (including postage). Individual Ordinary Members of EPS may buy copies at the reduced rate of Sw. Frs 50.— (including postage).

For both the Abstracts and the Plenary Lectures, payment should be sent with orders to:

European Physical Society,
Trends in Physics,
PO Box 39
CH-1213 Petit-Lancy 2
Switzerland

Accommodation

Reservations for hotel accommodation can not be handled by the Conference Secretariat, but may be booked directly with:

Landeshauptstadt Wiesbaden,
D-6200 Wiesbaden,
Brunnenkolonnade,
Fed. Rep. Germany.

Final programme of the EPS General Conference, October 1972

Time	Tuesday, 3	Wednesday, 4	Thursday, 5	Friday, 6
9.00 to 12.30	<p>OPENING SESSION</p> <p><i>The origin of the universe</i> W. Kundt (Hamburg)</p> <p><i>Environment, scientific research and economic policy</i> J. Tinbergen (The Hague)</p>	<p><i>Recent developments in high energy physics</i> L. van Hove (Geneva)</p> <p><i>Nonlinear optics and short light pulses</i> W. Kaiser (Munich)</p> <p><i>Applications of superconductivity</i> B. Goodman (London)</p>	<p><i>High temperature plasma physics and the problem of fusion</i> L.A. Artsimovich (Moscow)</p> <p><i>Physical aspects of displays</i> S. van Houten (Eindhoven)</p> <p><i>Polarized neutrons and nuclei: nuclear pseudomagnetism</i> A. Abragam (Paris)</p>	<p><i>Lasers and the atmospheric sciences</i> G. Fiocco (Frascati)</p> <p><i>Atoms dressed by photons</i> C. Cohen-Tanoudji (Paris)</p> <p><i>Exotic atoms</i> V. Telegdi (Chicago)</p>
14.30 to 18.00	<p><i>In parallel:</i></p> <p>HIGH ENERGY AND PARTICLE PHYSICS</p> <p>ATOMIC PHYSICS</p> <p>QUANTUM ELECTRONICS</p> <p>PLASMA PHYSICS</p> <p>CONDENSED MATTER + LOW TEMPERATURE PHYSICS</p>	<p><i>Chemical lasers and chemical reactions induced by lasers</i> A. Oraevski (Moscow)</p> <p>GENERAL ASSEMBLY</p> <p>Meeting with EPS Associate Members</p>	<p><i>In parallel:</i></p> <p>ATOMIC AND MOLECULAR PHYSICS</p> <p>PHYSICS IN ASTRONOMY</p> <p>HIGH ENERGY AND PARTICLE PHYSICS + NUCLEAR PHYSICS</p> <p>PLASMA PHYSICS</p> <p>COMPUTATIONAL PHYSICS + PHYSICS IN ASTRONOMY</p>	<p><i>In parallel:</i></p> <p>NUCLEAR PHYSICS</p> <p>PHYSICS IN ASTRONOMY</p> <p>COMPUTATIONAL PHYSICS</p> <p>CONDENSED MATTER + LOW TEMPERATURE PHYSICS</p> <p>QUANTUM ELECTRONICS</p>
20.00 to 22.00	<p><i>Physics and Society — Public policy and current prospects</i> Discussion led by G. Diemer (Eindhoven)</p>	<p>Physics and society H.B.G. Casimir (Eindhoven)</p>	<p><i>Origin of biological information</i> M. Eigen (Göttingen)</p>	<p><i>The computer and the teaching of physics</i> Y. Le Corre (Paris)</p>

The Youth Hostel in Wiesbaden has available 200 beds at the reduced price of 6.50 DM per night. Participants who wish to take advantage of this offers should book directly with

Deutsche Jugendherberge,
D-6200 Wiesbaden,
Blücherstrasse 66,
Fed. Rep. Germany.

It is essential to have a valid International Youth Hostels Federation Card when arriving at Wiesbaden Youth Hostel. These cards may be obtained through national Youth Hostels Associations.

Registration

In order to register, participants should complete the cards in this issue of *Europhysics News* (except in Fed. Rep. Germany and UK) and return them to:

2nd General Conference 1972,
EPS-Secretariat,
D-6000 Frankfurt (Main),
Robert-Mayer-Strasse 2-4

Additional registration cards are available on request.

Divisional Programme

ATOMIC PHYSICS (3 October)

M. J. Seaton (London)
Bound States and Continuum States of Atomic Systems

B. Fastrup (Aarhus)
Ionic Excitation of Inner Shells of Atoms
W. Demtröder (Kaiserslautern)
Spectroscopy with Lasers

General Assembly of the Atomic Physics Division

ATOMIC AND MOLECULAR PHYSICS (5 October)

G. zu Putlitz (Heidelberg)
Optical Pumping of Ions
S. Feneuille (Orsay)
Relativistic Effects in Atomic Structure
K. Dressler (Zürich)
Optical Spectra of Trapped Atoms and of Molecular Crystals

PHYSICS IN ASTRONOMY (5 October)

F. Pacini (Frascati)
Astrophysical Aspects of Highly Collapsed Bodies
Business Meeting of the Division

Joint Session with the Computational Physics Group:

F. Hohl (Hampton)
Spiral Structure of Galaxies
P. Bouvier (Geneva)
Computing Experiments on Stellar Systems

PHYSICS IN ASTRONOMY (6 October)

D. W. Sciama (Oxford)
Gravitational Waves
K. Pinkau (Garching)
High Energy Astrophysics
P. Lena (Meudon)
Infrared Astrophysics

CONDENSED MATTER

+ LOW TEMPERATURE PHYSICS (3 October)

T. Springer (Jülich)
Applications of High Resolution Neutron Spectroscopy

J. Labbé (Orsay)
Superconductivity and Lattice Instabilities in Intermetallic Compounds with Linear Chains (A_{15} Compounds)

D. Shoenberg (Cambridge)
The de Haas-van Alphen Effect after 40 Years

CONDENSED MATTER

+ LOW TEMPERATURE PHYSICS (6 October)

J. L. Beeby (Harwell)
Scattering from Surfaces
D. J. Dingley (Bristol)
Enhanced Ductility of Metals
G. Amsel (Paris)
Microanalysis of Surface Regions of Solids by the Direct Observation of Nuclear Interactions at Low Energies

HIGH ENERGY AND PARTICLE PHYSICS (3 October)

H. Lehmann (Hamburg)
The Relevance of Axionatics in Particle Physics
A. Zichichi (Bologna)
Physics with Colliding Lepton Beams
A. Wetherell (Geneva)
Physics with Colliding Hadron Beams

HIGH ENERGY AND PARTICLE PHYSICS + NUCLEAR PHYSICS (5 October)

D. H. Wilkinson (Oxford)
Our Ignorance of the Nucleus
T. Ericson (Geneva)
Exotic Atoms
V. Soergel (Heidelberg)
Hypernuclear Spectroscopy

NUCLEAR PHYSICS (6 October)

R. Klapisch (Orsay)
Light Exotic Nuclei
Z. Szymanski (Warsaw)
Theoretical Predictions for the Existence of Superheavy Nuclei
I. M. Irvine (Manchester)
The Structure of Light and Medium Weight Nuclei
I. C. Oganessian (Dubna)
Fission Induced by Heavy Ions

PLASMA PHYSICS (3 October)

R. Lüst (Garching)
Plasma Experiments in Space
B. Coppi (Cambridge)
Plasma Phenomena in High Energy Astrophysics
J. L. Delcroix (Orsay)
Plasma Waves

PLASMA PHYSICS (5 October)

A. Schlüter (Garching)
On the Way to a Fusion Reactor
J. W. M. Paul (Abingdon)
Collisionless Shocks and Plasma Turbulence
K. V. Roberts (Abingdon)
Numerical Simulation of Plasma Phenomena

QUANTUM ELECTRONICS (3 October)

M. Michon (Marcoussis)
High Power Lasers
S. D. Smith (Edinburgh)
Tunable Infrared Light Sources
F. P. Schäfer (Göttingen)
Dye Lasers
D. J. Bradley (Belfast)
Pico-second Phenomena and Their Measurement

QUANTUM ELECTRONICS (6 October)

M. H. Pilkuhn (Stuttgart)
Semiconductor Lasers
O. Svelto (Milan)
Self-focusing and Self-trapping

S. A. Ramsden (Hull)
Laser-produced Plasmas
J.-Ch. Vienot (Besançon)
Application of Coherent Optics

COMPUTATIONAL PHYSICS (5 October)

Joint Session with the Advisory Committee on Applied Physics and Physics in Industry:

E. T. Ferguson (Eindhoven)
Calculation of the Properties of Electron Guns
H. Göllnitz (Schrobenhausen)
Calculation of Optimum Space-Flight Manoeuvring
N. Vogt-Nilsen (Geneva)
Particle Orbits in Cyclotrons

Joint Session with the Physics in Astronomy Division:

F. Hohl (Hampton)
Spiral Structure of Galaxies
P. Bouvier (Geneva)
Computing Experiments on Stellar Systems

COMPUTATIONAL PHYSICS (6 October)

Joint Session with the Advisory Committee on Applied Physics and Physics in Industry:

J. Treusch (Dortmund)
Band Structure Calculations in Semiconductors
K. Knorr (Grenoble)
Computation of Phonon Spectra of Superconductors from Tunnelling Characteristics

T. Schneider (Zürich)
Computer Simulation of Phase Transitions in Finite Systems

M. Feix (Nancy)
Computational Models in Plasma Physics
R. Sadourny (Paris)
Computational Methods in Meteorology
D. Biskamp (Garching)
Computer Simulation in Plasma Physics

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