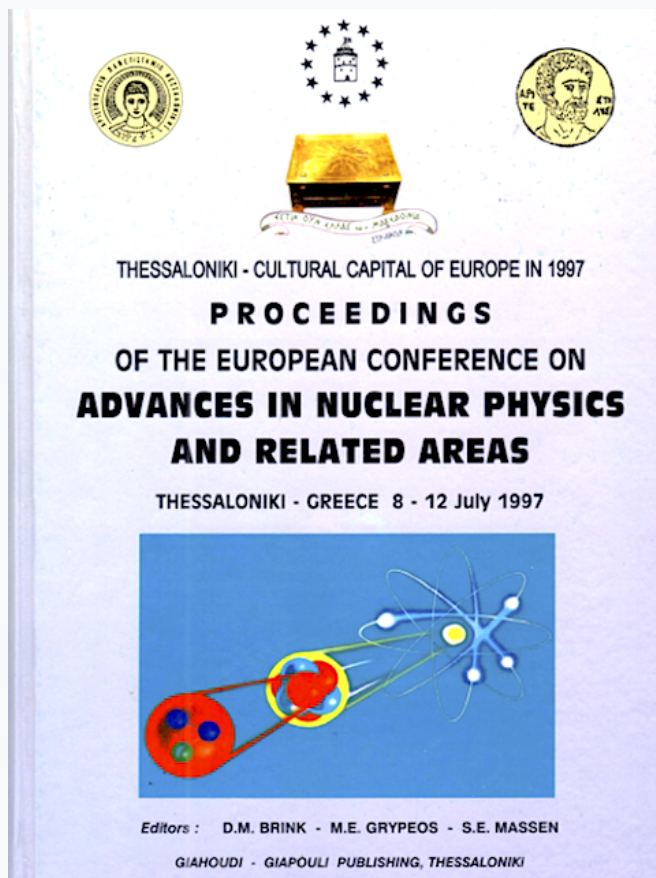


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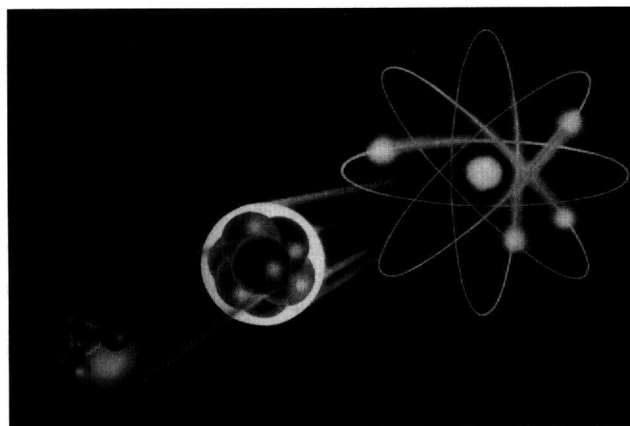


**THESSALONIKI - CULTURAL CAPITAL OF EUROPE IN 1997**

**EUROPEAN CONFERENCE ON:**

**ADVANCES IN NUCLEAR PHYSICS  
AND RELATED AREAS**

**THESSALONIKI - GREECE 8 - 12 July 1997**



**ABSTRACTS**



## THESSALONIKI - CULTURAL CAPITAL OF EUROPE IN 1997

The Section of Nuclear and Elementary Particle Physics of the Physics Department of the Aristotle University of Thessaloniki will organize a European [International] conference on:

# ADVANCES IN NUCLEAR PHYSICS AND RELATED AREAS THESSALONIKI - GREECE 8 - 12 July 1997

The conference, which is in place of the 8th Symposium of the Hellenic Nuclear Physics Society, is organized on the occasion of Thessaloniki's being the cultural capital of Europe in 1997. It is held under the auspices of the Hellenic Nuclear Physics Society and of the "Organization for the cultural capital of Europe - Thessaloniki, 1997". It is sponsored, among others, by the European Centre for Theoretical studies in Nuclear Physics and related areas, Trento, Italy. Theoretical and experimental advances will be discussed. The topics will include:

### A. NUCLEAR STRUCTURE AND REACTIONS

- i) Nuclear structure away from stability - Halo nuclei.
- ii) Super(Hyper)deformation - high spin states
- iii) Beta - decay
- iv) Correlations in nuclei
- v) Algebraic methods in Nuclear Physics
- vi) Nuclear spectroscopy
- vii) Nuclear Astrophysics
- viii) Chaos in nuclei

### C. ATOMIC AND MOLECULAR CLUSTERS

- i) Nuclear clusters.
- ii) Atomic and Molecular clusters.

### B. INTERMEDIATE ENERGY NUCLEAR PHYSICS

- i) Electron scattering at intermediate energies
- ii) Hypernuclei and low - energy kaon Physics
- iii) Intermediate energy nuclear reactions and non-nucleonic degrees of freedom.
- iv) Relativistic nuclear collisions and quark-gluon plasma

### D. APPLICATIONS OF NUCLEAR PHYSICS

- i) Radioactivity.
- ii) Nuclear Physics and Environment.
- iii) Medical applications of Nuclear Physics

The participants will also have the chance to attend some of the cultural activities organized in Thessaloniki, see priceless treasures from the Ancient Greek and Byzantine times, and visit archaeological sites.

Many distinguished Physicists have accepted to be invited speakers. Their names and the titles of their talks will be announced in the second circular.

Chairmen: D.M. Brink (Trento) - M.E. Grypeos (Thessaloniki)

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The conference fee is ECU 160 (USA \$ 200) (ECU 200 (USA \$ 250) after the early registration deadline) and covers the local expenses except accommodation. No refunds will be made. See also "additional information". A limited number of grants to cover the expenses or part of them might be available mainly to young scientists or to participants, who can not be supported by their home institution or through other sources. This possibility, however, may not be known before the end of May 1997.

**Deadline for early registration:** 30 April 1997. The earliest possible registration is advisable. The registration form, however, should be sent not later than 20th of May.

**Deadline for contributions:** 20 May 1997. A one-page abstract in LaTeX file should be submitted. Participants should expect to be informed in about 3 weeks after that date, whether their contribution(s) have been accepted for oral or poster presentation.

The mailing address is:

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"Advances in Nuclear Physics and related areas"

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Phones: +3-031-998031 or +3-031-998133 Fax: +3-031-998128 or +3-031-206138

Communication by e-mail is preferable

Additional information and the registration form are given on separate sheets.

More information is available on the home page of the conference: <http://nisyros.physics.auth.gr/thesnuc.html>

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This booklet contains the abstracts of invited talks and contributions submitted for oral or poster presentation to the European Conference "Advances in Nuclear Physics and related areas", Thessaloniki, 8-12 July 1997.

The abstracts are displayed in alphabetic order of the authors who are expected to present them at the conference. At the end there is an Index with the names of the authors and of the pages where the corresponding abstracts appear. A number of additional abstracts (mostly referred to delayed submissions) have been included at the end. In some of the abstracts corrections for misprints or linguistic errors have been made before reproduction.

Many thanks are due in particular to Drs. Chr. Panos, Th. Petridou and P. Porfyriadis for their most valuable contribution to the edition of this booklet.

S. Massen  
Scientific Secretary

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