

INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS

25th Course: THE SUPER-WORLD-II

ERICE - TRAPANI - SICILY : 6-14 AUGUST 1987

Sponsored by the:

- European Physical Society ● Italian Ministry of Education
- Italian Ministry of Scientific and Technological Research
- Sicilian Regional Government ● Weizmann Institute of Science

PROGRAMME AND LECTURERS

OPENING LECTURE

The advance of physics through lepton experiments

- S.C.C. TING, MIT, Cambridge, MA, USA

THEORETICAL LECTURES

Sigma-models and superstrings

- M. GRISARU, Brandeis University, Waltham, MA, USA

Kaluza-Klein superstrings

- M. DUFF, CERN, Geneva, Switzerland

Index theorems in string theory

- P. WINDEY, Lawrence Berkeley Lab., Berkeley, CA, USA

Weak interactions on the lattice

- G. MARTINELLI, CERN, Geneva, Switzerland

String-field theory

- T. KUGO, Kyoto University, Kyoto, Japan

Four-dimensional superstrings

- C. KOUNNAS, Lawrence Berkeley Lab., Berkeley, CA, USA

Supergravity aspects of superstrings

- S. FERRARA, CERN, Geneva, CH and UCLA, CA, USA

REVIEW LECTURES

Light quark spectroscopy from charmonium decay

- C.A. HEUSCH, Univ. of California, Santa Cruz, CA, USA

SEMINARS ON SPECIALIZED TOPICS

The astroparticle connection

- D. NANOPOULOS, Univ. of Wisconsin, Madison, WI, USA

THE NEW PHYSICS IN EUROPE

LEP

- H. NEWMAN, CALTEC, Pasadena, CA, USA

GRAN SASSO

- I.A. PLESS, MIT, Cambridge, MA, USA

HERA

- V. SOERGEL, DESY, Hamburg, FRG

ELOISATRON

- A. ZICHICHI, CERN, Geneva, Switzerland

THE GLORIOUS DAYS OF PHYSICS:

On the occasion of the 25th anniversary of the School we celebrate the 70th birthday of two eminent physicists: Martin DEUTSCH and Hermann FESCHBACH

The role of Deutsch and Feschbach in the development of Modern Physics

- C. S. WU, Columbia University, New York, USA

The discovery of positronium

- M. DEUTSCH, MIT, Cambridge, MA, USA

Fifty years of nuclear physics

- H. FESCHBACH, MIT, Cambridge, MA, USA

CLOSING LECTURE

New physics below the Fermi mass

- S.L. GLASHOW, Harvard University, Cambridge, MA, USA

PURPOSE OF THE SCHOOL

To review the status of the most significant theoretical and experimental results in the exciting field of the new world: the Super-one.

POETIC TOUCH

According to legend, Erice, son of Venus, founded a small town on top of a mountain (750 metres above sea level) more than three thousand years ago. The great historian Thucydides (500 B.C.) said that the Elymi — founders of Erice — were survivors of the destruction of Troy. Ancient historians agreed that Erice was the oldest city of Europe.

Homer (~ 1000 B.C.), Theocritus (~ 300 B.C.), Polybius (~ 200 B.C.), Virgil (~ 50 B.C.), Horace (~ 20 B.C.), and others, have celebrated this magnificent spot in Sicily in their poems. In Erice you can admire the Castle of Venus, the Cyclopean Walls (~ 800 B.C.) and the Gothic Cathedral (~ 1300 A.C.). Erice is at present a mixture of ancient and medieval architecture.

Other masterpieces of ancient civilization, such as Motya (Phoenician), Segesta (Elymian), and Selinunte (Greek), are found in the neighbourhood. In the Aegadian Islands — theatre of the decisive naval battle of the first Punic War (264-241 B.C.) — there are prehistoric murals in Levanzo, and Paleolithic grottoes in Favignana.

Splendid beaches are at San Vito Lo Capo, Scopello, and Cornino; wild beaches around Monte Cofano. All at less than one hour drive from Erice.

Participation by invitation only

SPECIAL SCHOLARSHIPS

The following special scholarships have been established in honour of, and named after, the late physicists:

PATRICK M.S. BLACKETT	PAUL A.M. DIRAC	GIULIO RACAH
JAMES CHADWICK	GUNNAR KÄLLEN	J. JOHN SAKURAI
AMOS DE-SHALIT	ANDRÉ LAGARRIGUE	

These scholarships cover registration fees and full board and lodging in Erice.

● **PLEASE NOTE** that the special scholarships as well as any other form of financial support will be awarded in consultation with the Board of Lecturers at the end of the Course, in order to allow a more direct judgement of all the applicants.

Participants must be in Erice on August 6, not later than 5 p.m.

A. ZICHICHI - DIRECTOR

Special Announcement

Information about the Schools and the activities of the CENTRE can be found in the official Journal of the CENTRE:

PSC Progress in Scientific Culture

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