

INTERNATIONAL SCHOOL OF PHYSICS

"ETTORE MAJORANA"

ERICE (TRAPANI) SICILY 13-28 JULY 1968

Sponsored by: CERN - European Organization for Nuclear Research
ERS - Regional Sicilian Government
MPI - Italian Ministry of Public Education
NATO - North Atlantic Treaty Organization

Subject: "CURRENT DEVELOPMENTS IN PARTICLE PHYSICS"

LECTURERS AND PROGRAMME

OPENING SPEECH

G. SALVINI, University of Rome, Italy
Scientific Perspectives of Fundamental Physics Research: The Industry of Culture

THEORETICAL LECTURES

S. FUBINI, University of Turin, Italy
Low-Energy Limits and Current Algebra
T.D. LEE, Columbia University, New York, U.S.A.
Field-Current Identity
G. MORPURGO, University of Genoa, Italy
The Quark Model of Elementary Particles: Results and Problems
L. WOLFENSTEIN, Carnegie-Mellon University, Pittsburgh, U.S.A.
Theoretical Situation of CP Violation
S. ZADIMMO, New York University, New York, U.S.A.
Successes and Limitations of Local Algebras of Currents

REVIEW LECTURES ON EXPERIMENTAL TOPICS

C.A. HUSCH, California Institute of Technology, Pasadena, U.S.A.
Status and Perspectives of Photoproduction Experiments
W. KINZLE, CERN, Geneva, Switzerland
Meson Resonances
N. LIFMAN, The Rutherford High Energy Laboratory, Chilton, U.K.
Is the $AI = 1/2$ Rule Valid in K^0 Decay?
H.J. LUBATTI, Massachusetts Institute of Technology, Cambridge, U.S.A.
Regge Poles in High-Energy Collisions
M. SCHWARTZ, Stanford Linear Accelerator Center, Stanford, U.S.A.
Review of CP Violation

SEMINARS ON SPECIALIZED TOPICS

N. CABIBBO, University of Rome, Italy
G. COCCONI, CERN, Geneva, Switzerland
S. GOLDMAN, Harvard University, Cambridge, U.S.A.
M. DEUTSCH, Massachusetts Institute of Technology, Cambridge, U.S.A.
S. GLASHOW, Harvard University, Cambridge, U.S.A.
V.F. WEISSKOPF, Massachusetts Institute of Technology, Cambridge, U.S.A.

CLOSING LECTURE

T.D. LEE, Columbia University, New York, U.S.A.
Present Status of Elementary Particle Physics

CLOSING SPEECH

G. BERNARDINI, Scuola Normale Superiore, Pisa, Italy
The European Physical Society

* * * * *

THE FUTURE OF HIGH-ENERGY PHYSICS IN EUROPE

Round Table discussion led by E. AMALDI, Chairman of ECFA (European Committee for Future Accelerators), with the participation of leading European Particle Accelerator Specialists.

* * * * *

PURPOSE OF THE SCHOOL

The school is devoted to those physicists who are interested in having a much deeper theoretical understanding of the field of physics in which they are working. The emphasis of the programme will be on the elucidation and discussion of the progress achieved in the theoretical and experimental understanding of particle physics during the last year. The students will be selected from the applicants according to their scientific qualifications. In this selection, the geographical distribution of the students will be taken into account.

In order to exploit to the fullest extent the material presented at the school, three lectures will be given in the morning and two hours of the afternoon will be dedicated to clearing up in free, informal discussion, the topics of the morning lectures. The seminars will be given in afternoon or evening sessions.

POETIC TOUCH

Legend tells that Erice, son of Venus, was the founder, more than three thousand years ago, of a small town on top of a mountain (750 metres above sea level).

Homer (~1000 B.C.), Theocritus (~300 B.C.), Polybius (~200 B.C.), Horace (~70 B.C.), Virgil (~70 B.C.), and others, have celebrated in their poems this magnificent spot in Sicily. There you can admire among other beauties the Castle of Venus and the Cyclopean Walls. Other masterpieces of ancient Greek civilization are found in the neighbourhood, such as Motya, Segesta and Selinunte. The "Grotte Marini" of the Aegadian Islands can be reached by cablecar and flying boat in about an hour.

* * *

Please note:

1. It is regretted that owing to the limited number of places available in the lecture hall, it will not be possible to allow any person who has not been selected by the committee of the School to follow the courses.
2. NSF travel grants are restricted to U.S.A. citizens. Applications for these should be made as soon as possible through the Director of the School.
3. Enquiries regarding publications of previous courses should be addressed to ACADEMIC PRESS, Inc., 111 Fifth Avenue, New York, N.Y. 10003, U.S.A.

GENERAL INFORMATION

Persons wishing to attend this course should send a letter to:

The Secretary of the School: Max CARL MINGHINI
CERN—European Organization for Nuclear Research
1211 Geneva 23
(Switzerland)

They should specify:

- i) date and place of birth together with their present nationality;
- ii) degree and other academic qualifications;
- iii) list of publications;
- iv) present position and place of work;

and include

- vi) a letter of recommendation from their research group leader or from a professor of physics.

The total fee, including full board and lodging (arranged by the School), is 700 Swiss francs. Thanks to the generosity of MPI and NATO, partial support can be given to some students needing financial help. This need has to be specified and justified in the letter of application, which should be sent as soon as possible.

Closing date for applications: 1 May 1968
No special application-form is required

A letter will be sent to the successful applicants on 15 May. Those students who, because of possible difficulties with travel documentation, would like to know before 15 May whether their application has been accepted or not, may obtain an earlier special decision by submitting a justified request.

Admission to the school will be decided by a commission composed of: Prof. J.S. Bell, Prof. G. Bernardini, Prof. N. Cabibbo, Prof. M. Gell-Mann, Prof. L.A. Radicati, Prof. V.F. Weisskopf, and the Director of the School.

All students must be in Erice on 13 July not later than 5 p.m. More detailed information, including the timetable of the lectures, will be sent to the successful applicants together with the acceptance letter.

A. ZICHICH
DIRECTOR OF THE SCHOOL