INTERNATIONAL SCHOOL OF PHYSICS **«ETTORE MAJORANA»**

Sponsored by: CERN - European Organization for Nuclear Research

The Italian Ministry of Public Education

The Italian Physical Society.

Place: Eryx (Erice), Sicily. Period: 26 May - 8 June, 1963.

Subject: « PRESENT PROBLEMS IN STRONG, ELECTROMAGNETIC AND WEAK INTERACTIONS ».

PROGRAMME

MORNING LECTURES

INTRODUCTION

The aim of these lectures is to introduce the ents to the most fundamental concepts and formalisms which will be used during the course.

STRONG INTERACTIONS

Asymptotic behaviour, theoretical symmetries and resonances experimental

ELECTROMAGNETIC INTERACTIONS

Theoretical - Electrodynamics of vector Experimental - Present status of Q. E. D.

WEAK INTERACTIONS

Universal Fermi interaction, intermediate bosons, etc. theoretical experimental

п. AFTERNOON WORKING SESSIONS, led by

ш. PRESENT RESEARCH PROGRAMMES OF HIGH-ENERGY LABORATORIES

IV. SUMMARY ON PRESENT STATUS OF STRONG, ELECTROMAGNETIC, AND WEAK INTERACTIONS

Closing lecture

PURPOSE OF THE SCHOOL

school is devoted to those physicists who are interest ug of the field of physics in which they are working.

invarianting of the field of physics in Wears may be a very any.

The school will have a nevel feature which is intended to increase the ratio here
ted and what is presented in a typical summer school. In order to exploit to the heterical presented is the school, we will have only three letteruse per day, two given i
th hierars will last hour). The remarked of the morning will be devoted to the any
and the contract of the contract of the short of the afternoon will be deducted to clear
recal discussion the tupics of the morning intervent. The difficult test of leading and
and discussions will be shade ever by Circlinear Whitehings.

STRUCTURE OF THE SCHOOL

These will be selected from amongst applicants according to their scient selection the geographical distribution of the students will be taken into

POETIC TOUCH

Homer (\sim 1,000 B,C,), Theoritus (\sim 200 B,C,), Polybius (\sim 200 B,C,), Ho us (\sim 20 B,C,), and others, have celebrated in their poems this magnificent you can admire among other beauties the Castle of Yesus and the Cyclopean

Lecturer

J. S. Bell, CERN, Geneva.

8. Drell, Stanford University, Calif., U.S.A. G. Puppi, CERN, Geneva, and the University of Bologna.

S. Drell, Stanford University, Calif., U.S.A. R. L. Garwin, IBM Watson Laboratory and Columbia University, New York, U.S.A.

S. M. Berman, Linear Accelerator Center, Stanford, U.S. A. V. L. Telegdi, Enrico Fermi Institute for Advanced Studio Chicago, U.S. A.

V. F. Weisskopf, CERN, Geneva.

Presented by leading scientists from the various laboratories,

V. F. Weisskopf, CERN, Geneva.

GENERAL INFORMATION

Students who wish to be accompanied by members of the per person per day at Eryx is about 5,000 Italian lire.

askil applicants will be informed by cable on 15 May. Those students who, because of possible lities with travel documentation, would like to know before 15 May whether their application has

Admiration to the school will be decided by a commission composed of: Prof. O. Bernardini, President of the Balian Physical Society, Prof. V. F. Weisshopf, Director-Ceneral of CERN. and the Director

students must be in PALERMO on 25 May, either at the railway station, or at the sirport, or at the

A. Zichichi, Director of the School,