





THE ENRICO FERMI YEAR

A TRIBUTE TO THE "ITALIAN NAVIGATOR" FATHER OF THE WEAK FORCES

GALILEI GALILEI FOUNDATION
WORLD FEDERATION OF SCIENTISTS
ETTORE MAJORANA FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE GALILEO GALILEI CELEBRATIONS

INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS 39th Course: NEW FIELDS AND STRINGS IN SUBNUCLEAR PHYSICS

ERICE-SICILY: 29 AUGUST - 7 SEPTEMBER 2001

- Sponsored by the:
 * Academies of Sciences of Estonia, Georgia, Lithuania, Russia and Ukraine
 * Chinese Academy of Sciences
 * Commission of the European Communities
 * European Physical Society
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 *

 - Weizmann Institute of Science . World Laboratory

- PROGRAMME AND LECTURERS -

MINI-COURSES ON BASICS

Lattice QCD Results and Prospects

R.D. KENWAY, University of Edinburgh, Scotland, UK

Non-Perturbative Aspects of Gauge Theories

M.A. SHIFMAN, University of Minnesota, Minneapolis, MN, USA

Non-Perturbative String Theory
R.H. DIJKGRAAF, Universiteit van Amsterdam, NL

C. BACHAS, L.P.T.E.N.S., Paris, F

B. GAVELA LEGAZPI, Universidad Autónoma de Madrid, E

TOPICAL SEMINAR

The Structure of the Universe and its Scaling Properties

* L. PIETRONERO, University of Rome "La Sapienza", Rome, I

The ELN Project

*A. ZICHICHI, INFN & University, Bologna, I, and CERN, Geneva, CH

*J.I. FRIEDMAN, MIT, Cambridge, USA

SPECIAL SESSIONS FOR NEW TALENTS

EXPERIMENTAL HIGHLIGHTS FROM

* T.D. LEE, Columbia University, New York, USA

· R.J. CASHMORE, CERN, Geneva, CH

DESY-HERA

. G. WOLF, DESY, Hamburg, Germany

FERMILAB

* J. PEOPLES, FNAL, Batavia, IL, USA

GRAN SASSO . A. BETTINI, LNGS, Assergi, I

SUPERKAMIOKANDE . Y. TOTSUKA, Kamioka Observatory, Gifu Ken, Japan

THE BNL MUON 9-2 EXPERIMENT

. V.W. HUGHES, Yale University, New Haven, CT, USA

Sessions for New Talents: One of the aims of the School is to encouparticipants to their mutual benefit.

Each student may a

riticipants to their mutual benefit.

Each student may also propose a contribution for open presentation. The Board of Lecturers and Invited Scientists will select the best
oposals. Priority will be given to new material of either an experimental or theoretical nature, especially if the candidate has made an import
untilibution to the results to be presented. A review paper has lower priority and, as before, will only be scienced if the candidate can point out
wonew features in the field reviewed. Due to the large number of students and the limited time available, it is obvious that only selected "New
elasts" can be given the possibility of making themselves known. The selection will be based solely on "scientific excellence," without favour
geographical distribution, the laboratory or the university of origin. These Special Sessions will be chained by Gerardus 't Hoeft.

Invited Scientists: A group of distinguished physicists has been invited to contribute to the lively in the discussions following the Lectures. Moreover they will take part in the selection of the in the award of the various scholarships open for competition. ely intellectual atmosphere of the School by he "New Talents", in the choice of the Best

URPOSE OF THE SCHOOL

The description and phenomenological developments in String Theory as well as in the other recover of Schmudzer Physics will be the center of this year of the present in the other recover of Schmudzer Physics will be the center of this year of the present and the present of the present of the present of the present of the present the present of the present of the present of the present of the present such cases the present of the present of the present of the present such cases the present of the present of the present of the present the radiation of this School — the first and the other Schwoderne on in the world — the Discussion Sections represent the unique occasion for young latents to show their ability the combinety on the development of our outdensuing of the frontier preferent in combining to the development of our outdensuing of the frontier preferent in the present outdensuing the present of the present outdensuing of the frontier preferent in the present outdensuing the present outdensuing of the frontier preferent in the present outdensuing the present outdensuing of the frontier preferent in the present outdensuing the frontier preference of the present of the present the present outdensuing the present outdensuing of the frontier preferent in the present outdensuing the present outdensuing of the frontier preferent in the present outdensuing the present outdensuing of the present outdensuing out

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

IONN S. BELL
PATRICK MS. BIACVEST

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In order to allow a more direct judgement of all applicants these scholarships vill be awarded at the end of the Course by a Committee composed of the Lecturers and the Invited Scientists.

APPLICATIONS

Interested candidates should send a letter to the Director of the School:

Professor Antonino ZICHICHI CERN CH-1211 GENEVA 23, Switzerland

specifying:

date of birth and present activity;
 ii) nationality.

Please enclose a letter of recommendation from the group leader or the Director of the Institute or from a senior physicist.

POETIC TOUCH

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monasteries and privine palices which you use today.

In Erice you can andwise the Castle of Venus, the Cyclopean Walls (-1000 B.C.) and
the Gothe Catherin (-1000 A.D.). Erice is a present instaure of naise-time and medieval
architecture. Other monstropieces of another civilization are to the found in the
naighbounhood: at Motya (Phonician), Segeia (Dynain), and Solimonio (Creek). On
the Agazini Istanio — then are of the ective naval lastle of the first Paule War (24241 B.C.) — suggestive resolutive and altered free size of the first Paule War (24241 B.C.) — suggestive resolutive and palendific version and in the promote of
Programa, the extring and manufa of Levens.

Beginned beaches are who found is fair. Who Lo Capo, Societa, and Contino. and
a wild and nocky occur towns Monte Coffice all at less than one hour's drive from Brite.

· PLEASE NOTE

Participants must arrive in Erice on August 29, not later than 5 p.m

More information about the other activities of the Ettore Majorana Centre can be found on the WWW at the following address:
http://www.ccsen.infn.it