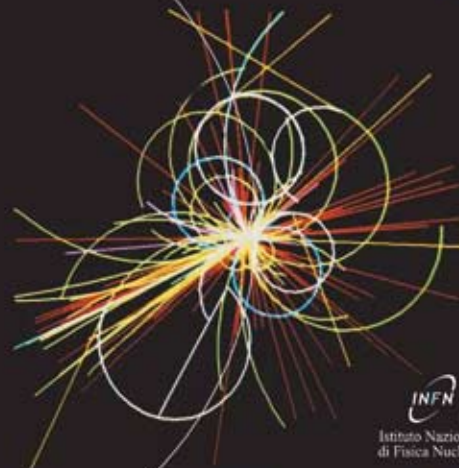




Frontier Detectors for Frontier Physics

11th Pisa meeting on
advanced detectors

La Biodola • Isola d'Elba • Italy
May 24 - 30, 2009



Istituto Nazionale
di Fisica Nucleare



Università di Pisa
Dipartimento di Fisica



Università di Siena
Dipartimento di Fisica



Società Italiana di Fisica



European Physical Society

For further information:

Angelo Scribano

INFN - Sezione di Pisa

Largo Bruno Pontecorvo, 3

I-56127 Pisa

Phone: +39 050 2214 352 or 327

Fax: +39 050 2214 317

E-mail: pisameet@pi.infn.it

Web: www.pi.infn.it/pm/2009



«ETTORE MAJORANA» FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE
TO PAY A PERMANENT TRIBUTE TO GALILEO GALILEI, FOUNDER OF MODERN SCIENCE
AND TO ENRICO FERMI, THE "ITALIAN NAVIGATOR", FATHER OF THE WEAK FORCES



INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS *THE MOST UNEXPECTED AT LHC* *AND THE STATUS OF HIGH ENERGY FRONTIER*

47th Course – ERICE-SICILY: **29 AUGUST – 7 SEPTEMBER 2009**

PROGRAMME AND LECTURERS

OPENING LECTURE

Can the LHC lead us to a New Age of Discovery?
• S.L. GLASHOW, Boston University, MA, US

THE PHYSICS OF EXTRA-DIMENSIONS IN SUPERSTRING THEORIES:

The Time dependence of the Fundamental Constants and the Cancellation Effects
• Th.W. HANSCH, Max-Planck-Institute für Physics & University, München, DE

HOT THEORETICAL TOPICS:

The Landscape and Cosmological Vacuum Selection
• R. BOUSSO, Berkeley Center for Theoretical Physics, Berkeley, CA, US
Ultraviolet Behavior of $N=8$ Supergravity
• L. DIXON, SLAC, Menlo Park, CA, US
Microscopic Black Holes, Entropy and Particle Species
• G. DVALI, CERN, Geneva, CH
Flux Vacua and Supersymmetry Breaking in String Theory
• D. LUEST, Max-Planck-Institute für Physics, München, DE
Present Status of Loop Quantum Gravity
• C. ROVELLI, Centre de Physique Théorique de Luminy, Marseille, EU
Is the Best Superstring Model NP Complete?
• M.R. DOUGLAS, Rutgers University, Piscataway, NJ, US

HOW COSMOLOGY AFFECTS SUBNUCLEAR PHYSICS:

Present Status of Inflationary Cosmology
• A. LINDE, Stanford University, CA, US
String Cosmology and CMB
• R. KALLOSH, Stanford University, CA, US

HIGHLIGHTS FROM LABORATORIES

BNL–RHIC:
• T.D. LEE, Columbia University, NY, US
CERN:
• R.-D. HEUER, CERN, Geneva, CH
DESY:
• G. WOLF, DESY, Hamburg, DE
FERMILAB:
• P.J. ODDONE, Fermi Lab, Chicago, IL, US
GRAN SASSO:
• A. BETTINI, University of Padua, IT; Canfranc Underground Laboratory, ES
SUPERKAMIOKANDE:
• M. KOSHIBA, University of Tokyo, Kamioka, Gifu, JP
TRIUMF:
• N. LOCKYER, TRIUMF, Vancouver, ON, CA

PREDICTED SIGNALS AT LHC

• J.H. SCHWARZ, Caltech, Pasadena, CA, US
• M.J. TANNENBAUM, BNL, Upton, NY, US
• D. NANOPOULOS, Texas A&M University, College Station, TX, US
• I. ANTONIADIS, CERN, Geneva, CH
• R. KENWAY, University of Edinburgh, Scotland, UK

SEMINARS ON SPECIALIZED TOPICS

• A. ZICHICHI, CERN, Geneva, CH; INFN & University of Bologna, IT
Supergravity: Foundations and Applications
• S. FERRARA, CERN, Geneva, CH; UCLA, Los Angeles, CA, US

SPECIAL SESSIONS FOR NEW TALENTS: One of the aims of the School is to encourage and promote young physicists to achieve recognition at an international level. There will be poster sessions whereby each student will have the privilege of presenting the results of current studies and interacting with other participants to their mutual benefit. Each student may also propose a contribution for open presentation. A **BOARD OF LECTURERS AND INVITED SCIENTISTS** will select the best proposals. Priority will be given to the new material of either experimental or theoretical nature, especially if the candidate has made an important contribution to the results to be presented. A review paper has lower priority and, as before, will only be selected if the candidate can point out some new features in the field reviewed. Due to the large number of students and the limited time available, it is obvious that only selected "NEW TALENTS" can be given the possibility of making themselves known. The selection will be based solely on "scientific excellence", without favour to geographical distribution, the Laboratory or the University of origin.

APPLICATIONS

Interested candidates should send a letter to the Director of the School:
Professor Antonino ZICHICHI
CERN, CH-1211 GENEVA 23, Switzerland

Needed:

- i) date of birth and present activity;
- ii) nationality;
- iii) letter of recommendation from a senior physicist.

To honour the memory of Victor Weisskopf, the WORLD FEDERATION OF SCIENTISTS (WFS) has established a commemorative fund to support needy students. Students in need of financial support should apply for this fund, specifying their needs (i.e. participation fee only or also travel expenses) at the time of the application to the School.

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

DIPLOMAS

The following Diplomas for the Best Students have been established in honour of, and named after, the late physicists:

JOHN S. BELL	ROBERT HOFSTADTER	ISIDOR I. RABI
PATRICK M.S. BLACKETT	GUNNAR KÄLLEN	GIULIO RACAH
JAMES CHADWICK	YUVAL NEEMAN	BRUNO ROSSI
SIDNEY COLEMAN	GIUSEPPE P.S. OCCHIALINI	VICTOR F. WEISSKOPF
RICHARD H. DALITZ	ORESTE PICCIONI	EUGENE P. WIGNER
PAUL A.M. DIRAC	BRUNO PONTECORVO	BJORN H. WIJK
VLADIMIR N. GRIBOV	GIAMPIETRO PUPPI	CHIEN SHIUNG WU

These Diplomas will be awarded at the end of the Course by the Board composed of the Lecturers and the Invited Scientists.

More information about the other activities of the
«ETTORE MAJORANA» FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE
can be found at the following address:

<http://www.ccsem.infn.it>

G. 'T HOOFT – A. ZICHICHI
CO-DIRECTORS OF THE COURSE

A. ZICHICHI
DIRECTOR OF THE SCHOOL

International Union of Pure and Applied Physics

IUPAP YOUNG SCIENTIST PRIZE IN NUCLEAR PHYSICS

The purpose of this prize, which consists of 1,000 EUR, a medal, and a certificate citing the recipient's contributions, is: To recognize and encourage very promising experimental or theoretical research in nuclear physics, including the advancement of a method, a procedure, a technique, or a device that contributes in a significant way to nuclear physics research. Candidates for the prize must have a maximum of eight years of research experience (excluding career interruptions) following the Ph.D. (or equivalent) degree. Nominations by one or two nominators (and distinct from the nominee) are open to all experimental and theoretical nuclear physicists. Three prizes will ordinarily be awarded at the time of the tri-annual International Nuclear Physics Conference. Nominations are due October 1 of the year preceding the International Nuclear Physics Conference and are valid only until then. It will be extremely helpful to the selection committee to receive at least two additional letters supporting the nomination that detail the expected significance of the contributions of the nominee to nuclear physics. It is also appropriate to submit additional materials such as published articles that underline the expected significance of the nominee's contribution to nuclear physics. It is important that the selection committee has the specific information that allows it to determine what the nominee has contributed and how this contribution is expected to impact the field. Nominations for prizes to be awarded at the next International Nuclear Physics Conference, July 4-9, 2010, in Vancouver, Canada, are to be sent by email by October 1, 2009 to the Chair of the IUPAP Commission of Nuclear Physics (C12): Dan-Olof Riska, Helsinki Institute of Physics, Dan-Olof.Riska@helsinki.fi, subject "IUPAP prize nomination".

For further informations:

American Physical Society - One Physics Ellipse
College Park, MD 20740-3844, USA

Phone: (1-301)209 3269 Fax: (1-301) 209 0865
<http://www.iupap.org> E-mail: beamon@aps.org

Answer the Call for Proposals



ESOF (Euroscience Open Forum) is a meeting dedicated to research and scientific innovation, which takes place every two years in a major European city. For the 2010 edition Euroscience has chosen **Torino, Italy**. On **2-7 July 2010** Torino will be the European City of Science, hosting a wide array of events. ESOF2010 will feature four main programmes: a core **Scientific Programme**, with conferences, workshops and keynote lectures; an outreach programme aimed at the general public (**Science in the City**); a set of activities dedicated to students and young researchers (**Career Programme**); and events aimed at potential entrepreneurs and investors in highly innovative businesses (**Science to Business**). The organizers are committed to address a wide range of themes and to hear as many qualified voices as possible. Major scientific personalities will be invited to share their experience, but most of the official programme will be set up with a bottom-up approach, thanks to an open **Call for Proposals**, on-line at www.esof2010.org. The **deadlines** are **15 June 2009** for the Scientific Programme and **15 September 2009** for the Career, Science in the City and Science to Business Programmes. Everyone is welcome to submit a proposal, following the relevant guidelines.

ESOF2010
EUROSCIENCE OPEN FORUM
TORINO, JULY 2-7

Pa Ss ioⁿ Fo^r Scieⁿ Ce

**XXII International Nuclear Physics Divisional Conference
of the European Physical Society**

Nuclear Physics in Astrophysics IV

For further informations:

Nuclear Physics in Astrophysics IV
Laboratori Nazionali del Gran Sasso
Fax: +39 0862 437 437
<http://npa4.lngs.infn.it/>
NPA4@lngs.infn.it

organized by
Laboratori Nazionali del Gran Sasso, Assergi, Italy

June 8th to 12th 2009

The CERN Accelerator School (CAS) is organising a course on

MAGNETS

Bruges, Belgium

16-25 June 2009



European Organization
for Nuclear Research

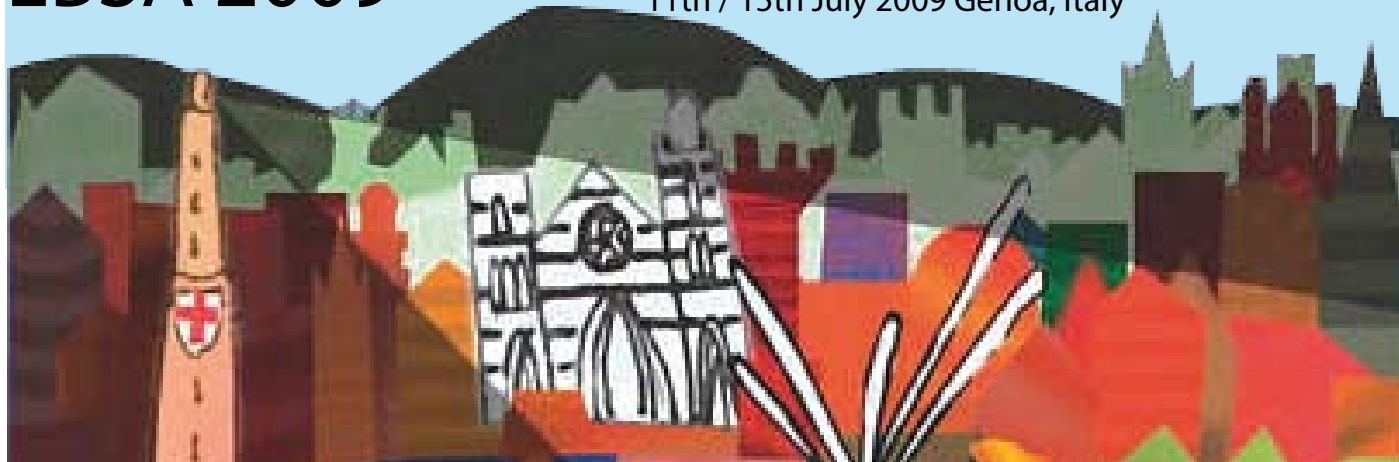
Contact: CERN Accelerator School
CH-1211 Geneva 23 - Switzerland
Fax: +41 22 767 5460
www.cern.ch/schools/CAS



<http://universe2009.obspm.fr>

INVISIBLE UNIVERSE
 Palais de l'Unesco, Paris, France June 29-3 July, 2009

EBSA 2009 European Biophysics Congress Genoa
 11th / 15th July 2009 Genoa, Italy



For further informations:
 Chemical Biology and Organic Chemistry Utrecht University
 Padualaan 8, 3584 CH Utrecht, The Netherlands

Tel: +31 30 253 3442 Fax: +31 30 253 3969
<http://www.ebsa.org/>
 e-mail: j.a.killian@uu.nl



 European Physical Society
HEP 2009
 16-22 July 2009 Krakow, Poland

For further informations:
 EPS HEP 2009 Conference
 The Henryk Niewodniczanski Institute of Nuclear Physics
 Polish Academy of Sciences, ul. Radzikowskiego 152
 31-342 Kraków, Poland

tel: +48 12 662 80 82 fax: +48 12 662 80 99
<http://www.ifj.edu.pl/hep2009/>
 e-mail: eps2009@ifj.edu.pl

DOMANDA DI ISCRIZIONE alla SOCIETÀ ITALIANA DI FISICA

2009

Nome _____

Cognome _____

Luogo e data di nascita _____

Nazionalità _____

a Istituto o Ente di appartenenza _____

b Indirizzo privato _____

Indirizzo e-mail _____

Breve curriculum (titolo di studio, attività didattica e scientifica): _____

Indirizzo a cui inviare il Bollettino della Società e la corrispondenza:

a

b

Firme leggibili dei Soci Presentatori (*)

Nomi in stampatello e indirizzi e-mail

1) _____

2) _____

- Socio INDIVIDUALE € 45,00
- Socio JUNIOR al di sotto dei 30 anni € 25,00
- Socio INDIVIDUALE anche membro di altre associazioni scientifiche relative alla fisica (**)
- € 35,00
- Socio COLLETTIVO € 260,00
- Socio SOSTENITORE (a partire da) € 310,00
- Socio INVITATO € 0,00

La quota di iscrizione dovrà essere pagata dopo aver ricevuto comunicazione dell'accettazione della domanda. ()*

(*) Eccetto per i Soci INVITATI

(**) Informazioni: <http://www.sif.it/SIF/it/portal/associazione>

Data _____

Firma _____

Autorizzo il trattamento dei miei dati personali ai sensi del D.Lgs. 196/2003

sì no

SOCIETÀ ITALIANA DI FISICA

Per diventare Socio SIF:

Informazioni: <http://www.sif.it/SIF/it/portal/associazione>

Quote sociali 2009 della Società Italiana di Fisica

- | | | |
|---|--------------|--------------------------|
| <input type="radio"/> Socio Individuale | € 45,00 | <input type="checkbox"/> |
| <input type="radio"/> Socio Junior al di sotto dei 30 anni | € 25,00 (**) | <input type="checkbox"/> |
| <input type="radio"/> Socio Individuale anche membro di altra associazione scientifica relativa alla fisica (*) | € 35,00 (**) | <input type="checkbox"/> |
| <input type="radio"/> Socio Collettivo | € 260,00 | <input type="checkbox"/> |
| <input type="radio"/> Socio Sostenitore (a partire da) | € 310,00 | <input type="checkbox"/> |
| <input type="radio"/> Socio Invitato | € 0,00 | <input type="checkbox"/> |

(*) Informazioni: <http://www.sif.it/SIF/it/portal/associazione>

(**) Poiché queste quote sono cambiate rispetto al 2008, per i Soci che hanno già provveduto al rinnovo anticipatamente saranno effettuati i corrispettivi conguagli in occasione del rinnovo nel 2010.

Per diventare Socio EPS:

Informazioni: <http://www.eps.org/subscribe>

Quote sociali 2009 della Società Europea di Fisica per "Individual membership"

- | | | |
|--|---------|--------------------------|
| <input type="radio"/> Socio | € 20,00 | <input type="checkbox"/> |
| <input type="radio"/> Socio al di sotto dei 30 anni | € 15,00 | <input type="checkbox"/> |
| <input type="radio"/> Socio in pensione | € 15,00 | <input type="checkbox"/> |
| <input type="radio"/> Studente | € 15,00 | <input type="checkbox"/> |
| <input type="radio"/> Insegnante (pre-universitario) | € 15,00 | <input type="checkbox"/> |

Modalità di pagamento della quota sociale alla SIF:

- online a mezzo carta di credito, tramite collegamento diretto e sicuro (POS) con la banca BNL, attraverso l'Area Soci del sito web della Società Italiana di Fisica
- a mezzo assegno bancario
- a mezzo bonifico postale:
BancoPosta, IBAN: IT14 G076 0102 4000 0001 9197 409
intestato a: Il Nuovo Cimento - Società Italiana di Fisica S.I.F.
- a mezzo versamento sul c/c postale n. 19197409
intestato a: Il Nuovo Cimento - Società Italiana di Fisica S.I.F.
- a mezzo carta di credito, tramite la Società Italiana di Fisica, compilando e spedendo il modulo sottostante (***)

(***) In questo caso sono escluse le carte Diners e American Express.

Compilare e spedire a :

Società Italiana di Fisica – Via Saragozza 12 – 40123 Bologna – fax 051 581340

Carta n. _____

Data di scadenza _____

Nome e Cognome o Ente _____

Via _____

Città e C.A.P. _____

Data e luogo di nascita _____

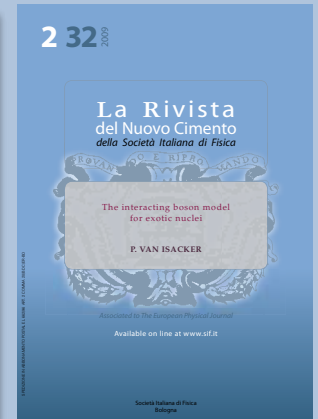
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Autorizzo il trattamento dei miei dati personali ai sensi del D.Lgs. 196/2003

si no

Pubblicazioni SIF

- IL NUOVO CIMENTO B ✓
- IL NUOVO CIMENTO C ✓
- LA RIVISTA DEL NUOVO CIMENTO ✓
- GIORNALE DI FISICA >
- QUADERNI DI STORIA DELLA FISICA >



Pubblicazioni in collaborazione europea

- EUROPHYSICS LETTERS >
- THE EUROPEAN PHYSICAL JOURNAL ✓

