

MAINTIEN / SUPPRESSION D'ALLOCATION POUR ENFANT A CHARGE DE 18 ANS ET PLUS

Les membres du personnel ayant des enfants de 18 ans ou plus (ou atteignant 18 ans au cours de l'année scolaire 1990/91) ont reçu courant août un

QUESTIONNAIRE

S'ils n'y ont pas encore donné suite, ils sont priés de le retourner **sans délai**.

Ils devront également, dans tous les cas, fournir un

CERTIFICAT DE SCOLARITE

pour l'année scolaire 1990/91, le **21 décembre 1990 au plus tard**.

Faute de certificat, l'allocation devra être supprimée avec effet rétroactif au 1.9.1990.

Remboursements et Congés
Division du Personnel
Tél. 3238-4474

EXTENSION / SUPPRESSION OF ALLOWANCE FOR DEPENDENT CHILDREN AGED 18 AND ABOVE

Members of the personnel with dependent children aged 18 or above (or reaching 18 during the 1990/91 school year) have received a

QUESTIONNAIRE

in August. If this questionnaire has not been completed and returned, they are requested to do so **immediately**.

In all cases, a

SCHOOL CERTIFICATE

must be provided for the 1990/91 school year **before 21 December 1990**.

Allowances not supported by a school certificate will have to be suppressed with retroactive effect from 1 September 1990.

Claims and Leave
Personnel Division
Tel. 3238-4474

SEMINARS SEMINAIRES

Monday 22 October

ISOLDE SEMINAR

at 15.00 hrs – CN Auditorium
bldg 31, 3-005

Fission properties of the heaviest elements

by Peter MØLLER / University Lund, Sweden
& University of Mainz

In the heavy-element region around Fm, fission-fragment kinetic-energy and mass distributions as well as fission half-lives change rapidly with a change of just one or two nucleon numbers. A theoretical interpretation of the unusual fission properties in this region in terms of a unified few-parameter nuclear-structure macroscopic-microscopic model is presented. An identical parameter set may also be used to calculate nuclear ground-state masses, shapes, beta-decay properties from stability to the drip lines.

Monday 22 October

PPE SEMINAR

at 16.30 hrs – Auditorium

A new upper limit on the mass of the Standard Model Higgs Boson

by J. PINFOLD / Weizmann Institute
representing the OPAL Collaboration

A search for the minimal Standard Model Higgs boson H^0 has been performed with data from e^+e^- collisions in the OPAL detector at LEP. The analysis is based on approximately 8 pb^{-1} of data taken at centre-of-mass energies between 88.2 and 95.0 GeV. The search concentrated on the reaction $e^+e^- \rightarrow (e^+e^-, \mu^+\mu^-, \nu\bar{\nu} \text{ or } \tau^+\tau^-)H^0, H^0 \rightarrow (q\bar{q} \text{ or } \tau^+\tau^-)$ for Higgs boson masses above $25 \text{ GeV}/c^2$. No Higgs boson candidates have been observed. The present study, combined with previous OPAL publications, excludes the existence of a Standard Model Higgs boson with mass in the range $3 < m_{H^0} < 44 \text{ GeV}/c^2$ at the 95 % confidence level.

Tuesday 23 October

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Hadronic final-states and tests of QCD with the OPAL detector at LEP

by J. William GARY / University of Heidelberg

The results of OPAL in QCD and hadronic physics during the first year of LEP operation will be reviewed. Topics include global event shape distributions and their description by QCD based Monte Carlo programmes, inclusive charged particle distributions and colour coherence, angular correlations in 4-jet events and tests for the gluon

self-coupling, and measurements of α_s from jet production rates and energy correlations. Special emphasis will be placed on the experimental and theoretical systematic uncertainties of the α_s determination.

* Tea & coffee will be served at 16.00 hrs.

Wednesday 24 October

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Renormalization group study of anyon superconductivity

by D. KAZAKOV / Dubna, USSR

Following the papers by Wen and Zee and Shankar, we construct a renormalizable effective Lagrangian for doped antiferromagnets breaking P and T invariance. Renormalization group analysis is performed and all the fixed points are found. The renormalization group flow diagram suggests the absence of the second order phase transition. One of the fixed points is found to be $N = 2$ super-symmetric.

Wednesday 24 October

PRESENTATION

at 16.00 hrs – CN Auditorium
bldg 31, 3-005

Taking advantage of X-Window at CERN

by Andy HOLL / NCD Europe, UK and
Georges BOLANOS / NCD Headquarters, USA

Users of high cost graphics and windowing workstations are starting to turn to performant and affordable X-terminals. Technically oriented speakers will discuss the following topics :

- X-window system as a key enabling technology
- X-window system architecture
- Doing network computing using X-terminals
- X-terminals as machine-independant interfaces
- X-terminals and the access to multiple hosts and applications simultaneously
- Integration of X-terminals into CERN existing environment
- Benefits of network computing
- X-terminal user profile
- Processing power and type of applications
- Applications
- Memory consideration
- Network and host loading
- Plug and play
- Graphics and windowing capabilities
- X terminal versus workstations or PC
- Open questions

Friday 26 October

MEETING ON

PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

Electroweak precision data and an extra $SU(2)_V$ vector boson

by D. SCHILDKNECHT / CERN & University of Bielefeld

A new way of testing the electroweak theory versus an extended one containing an extra vector boson triplet is described. The extended electroweak theory contains various models previously considered (BMW^ , W' , BESS, Hung-Sakurai) as special cases and allows for a significant interpretation of electroweak precision data.*

* Not to be confused with the German four-wheel luxury product.

Monday 29 October*

SPECIAL PS SEMINAR

at 14.00 hrs – PS Auditorium
bldg 6/2-024

Heavy ions for accelerators from laser plasma ion sources

by B. SHARKOV / ITEP, Moscow

Plasma production by means of powerful pulsed lasers is a known technique to generate a large amount of multiply charged ions. Experiments for using this technique to produce an ion source have been carried out over several years in ITEP. The present status of these laser ion sources will be presented, as well as future plans in connection with the ITEP synchrotron.

* Please note unusual day

Monday 29 October

PPE SEMINAR

at 16.30 hrs – Auditorium

Some recent highlights from DESY experiments

by M. FEINDT / Institut für Experimentalphysik, Hamburg

Four recent results from $\gamma\gamma$ and e^+e^- annihilation experiments performed at the e^+e^- colliders PETRA and DORIS are presented :

1. Discovery of a new resonance in $\gamma\gamma \rightarrow \eta\pi\pi$ (CELLO and Crystal Ball)
2. Electromagnetic form factors of the π^0 , η and η' (CELLO)
3. Measurement of the tau neutrino helicity (ARGUS)
4. First intermittency analysis in 3 dimensions (CELLO)

Mardi 30 octobre

PRESENTATION TECHNIQUE

de 14.00 à 17.00 h – Amphi. PS, bât. 6, 2-024

Midi Ingénierie (F) présente sa gamme de produits interfaçables sur bus VME

Langue : français

Renseignements : M. Diraison / FI / 4585

Thursday 1 November

CERN COLLOQUIUM

at 16.30 hrs – Auditorium

Matter under extreme conditions

by G. E. BROWN / State University of New York, Stony Brook NY

Vendredi 2 novembre

PRESENTATION TECHNIQUE

de 10.00 à 12.00 h et de 14.00 à 16.00 h
bât. 17, salle 1-007

Medilas AG (CH) présente une gamme de produits de Owis GmbH (D) spécialisé en mécanique de précision et en systèmes optiques et scientifiques

Langues : allemand, anglais, français

Renseignements : M. Diraison / FI / 4585

Friday 2 November

SYMPOSIUM IN HONOUR OF TORLEIF ERICSON

at 14.00 hrs – Auditorium

14.00 *Opening*

14.15 *Ericson fluctuations - A universal phenomenon*
by Hans A. WEIDENMULLER /
Max-Planck Institut für Kernphysik,
Heidelberg, Germany

16.00 *The Ericson-Ericson-Lorentz-Lorenz Effect*
by Gerald E. BROWN / State University of
New York at Stony Brook, USA

17.00 *Presentation of Festschrift*

TRAINING AND EDUCATION ENSEIGNEMENT

ENSEIGNEMENT GENERAL

Tél. 5811 ou 3674 (le matin)

Jeudi 25 October

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS

ACADEMIC TRAINING

Tél. 2844-3674

23 & 25 October

LECTURES FOR POSTGRADUATE STUDENTS

10.30 to 12.00 hrs – Auditorium

Quantum field theory

by B. DE WIT / Institute for Theoretical
Physics, Utrecht *Lecture 4, Lecture 5*

1, 5 & 7 November

11.00 to 12.00 hrs – Auditorium

Heavy flavours and CP violation

by P. ZERWAS / Rhein.-Westf. Technische
Hochschule, Aachen

The lectures are divided into three parts :

1. *Heavy flavours at LEP : tests of the Standard Model and the physics beyond*
2. *Top quarks at the LHC and high energy e^+e^- colliders*
3. *CP violation in the standard model and predictions for the b-quark sector.*



ENSEIGNEMENT TECHNIQUE TECHNICAL TRAINING

☎ 44.60

eductech@cernvm

Séminaire Technique

PSPICE

6 et 7 novembre 1990

Ce séminaire est destiné aux électroniciens qui souhaitent utiliser ce logiciel pour des modélisations et simulations analogiques. Une bonne connaissance en électronique analogique ainsi que la pratique d'un PC sous MS-DOS sont nécessaires.