

a. Documents délivrés par les Etats-hôtes

- Carte de légitimation ou Attestation de fonctions (photocopie en cas de renouvellement) délivrée par le Département fédéral des Affaires étrangères (Suisse)

ou

- Carte spéciale ou Attestation de fonctions (photocopie en cas de renouvellement), délivrée par le Ministère des Affaires étrangères (France).

b. Documents délivrés par le CERN

- Attestation délivrée par la Division du Personnel (Service des Boursiers et Attachés) à ceux qui n'ont pas droit à un document de légitimation d'un Etat-hôte
- ou
- Carte d'accès perforée délivrée par le Groupe des Services généraux permettant de se rendre dans les zones de restrictions
- ou
- Carte d'accès magnétique délivrée par le Groupe des Services généraux. »

Groupe des Services généraux / DA

request of the security guard, present **one** of the following documents :

a. Documents issued by the Host States

- 'Carte de légitimation' or 'Attestation de fonctions' (or a photocopy if being renewed), issued by the Federal Department of Foreign Affairs (Switzerland),

or

- 'Carte spéciale' or 'Attestation de fonctions' (or a photocopy if being renewed), issued by the Ministry of Foreign Affairs (France) .

b. Documents issued by CERN

- 'Attestation' issued by Personnel Division to those who are not entitled to an identity document from a Host State
- or
- a punched access card issued by General Services Group, allowing access to restricted zones,
- or
- magnetic access card, issued by General Services Group. »

General Services Group / DA

SEMINARS SEMINAIRES

Wednesday 29 March

PS SEMINAR

at 11.00 hrs - PS Auditorium

Use of high currents and liquid metals – particle focusing devices

by G. SILVERSTROV / Institute of Nuclear Physics, Novosibirsk, USSR

For many years, there has been a program of development of high current lithium lenses and magnetic horns for antiproton and positron production at the Institute of Nuclear Physics, Novosibirsk. In collaboration with CERN and FNAL, new devices, involving high currents and liquid metals, are now being studied. These include lithium lenses for high repetition rates or large diameters, a quadrupole magnet for the final focus system at an electron/positron collider, and both a liquid metal jet and a conducting target for antiproton production.

Wednesday 29 March

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Stability of matter

by W. THIRRING / Vienna

There are three notions of stability, namely stability against implosion, explosion and thermodynamic stability. They are expressed mathematically by the homogeneity, subadditivity and convexity of the thermodynamic energy. A simple theorem says that each pair of these properties implies the third. Its physical implications for various systems will be discussed.

Thursday 30 March

SPECIAL SEMINAR

at 16.30 hrs – Auditorium*

Status of the Chicago Air Shower Array (CASA)

by L. ROSENBERG / University of Chicago

The Chicago Air Shower Array (CASA) is a large-area surface scintillator array designed to study PeV sources. The complete detector will have more than 1000 detection stations distributed on a square grid 15 m apart. The first 49 stations are commissioned, and together with the University of Michigan underground muon detectors, constitute a powerful instrument for the study of point sources. We report our current status, and progress towards construction of the full array.

* Tea & coffee will be served at 16.00 hrs.

Monday 3 April

EF SEMINAR

at 11.00 hrs – EF Conference Room

Use of an expert system for monitoring & control of the L3 experiment

by Jean-Marie LE GOFF / CERN-EF

The L3 SLOW CONTROL is responsible for checking all the major physics parameters involved in the SAFE operation of the L3 experiment, including GSS (General Safety System for people) and LEP MACHINE parameters. It should permanently fulfill its safety role regardless of the activities of the experiment and the machine. The algorithmic approach appeared to be unable to cope with the modularity of the working conditions and the needs of expendability of our system. Therefore as a solution we propose a complete and flexible package based on the open configuration of an expert system completely integrated in a real time software environment transparent to a VMS user.

Monday 3 April*

PS SEMINAR

at 11.00 hrs – PS Auditorium
bldg 6, 2-024

Development of high brightness H^- sources

by K. N. LEUNG / Senior Staff Scientist,
Lawrence Berkeley Laboratory

A small multicusp source has been developed at LBL to generate volume produced H^- ion beams in pulsed operation. To obtain high H^- current densities, this source requires relatively high gas pressure and high discharge power. Experiments have been conducted to improve the arc and gas efficiencies, the beam pulse shape and the H^- to electron ratio in the extracted beam. The biggest improvement is achieved by adding cesium to the source, resulting in a five-fold increase in the extractable H^- current and a substantial drop in the e/H^- ratio. In order to improve the lifetime of the cathode, both filament and coaxial type LaB₆ cathodes have been operated successfully in this H^- source.

* Please note unusual day!

Tuesday 4 April

TECHNICAL PRESENTATION

14.00 to 16.00 hrs – DD Auditorium
bldg 31, 3-005

Scan Electric (S), a company in the ABB (Asea-Brown Boveri) group, specializes in export of any kind of equipment within the electronic and electro-technical area and can offer special design solutions to fulfil your specifications.

Language : English

Information : M. Diraison / FI / 4585

Tuesday 4 April

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

The electric dipole moment of the neutron

by B. GAVELA / Univ. Autonoma de Madrid

Recent experimental data suggesting a large neutron EDM, at the 10^{-25} e.cm. level, will be discussed. Its implication for the standard $SU(3) \times SU(2) \times U(1)$ model and for supersymmetry will be analysed. Left-Right symmetric theories and Higgs models of CP violation will be considered briefly.

Mercredi 5 avril

PRESENTATION TECHNIQUE

à 09.30 h – Salle de conférence EF
bât. 13, 2-005

Sicli, Matériel-Incendie SA (CH), propose un exposé sur le nouveau système de détection thermique linéaire de Alison Control Inc. (USA), indiquant à la centrale la distance, par rapport à cette dernière, où se situe l'élévation de température.

Langue : anglais (questions possibles en français)

Renseignements : M. Diraison / FI / 4585

Mercredi 5 avril

PRESENTATION TECHNIQUE

10.00 à 12.00 h & 14.00 à 16.00 h
bât. 17, 1-007

Philips SA (CH/D/NL/S/USA) présente sa gamme d'instruments de test et de mesure : oscilloscopes, multimètres portables et de laboratoire, analyseurs logiques, testeurs, calibrateurs, générateurs de fonctions et d'impulsions, compteurs et fréquencesmètres, systèmes d'instrumentation (interfaces et logiciels sur PC), mesures de température, tables traçantes et plotters.

Langue : français

Renseignements : M. Diraison / FI / 4585

Wednesday 5 April

PS SEMINAR

at 11.00 hrs – PS Auditorium

ARCHON - Architecture for cooperative heterogeneous on-line systems : a CERN-PS ESPRIT-2 collaboration

by Paul SKAREK / CERN-PS

This collaborative project, financed over five years, concerns issues like distributed artificial intelligence, distributed operating systems and real-time aspects of operating and expert systems. More specifically, it involves the co-operation of systems like databases, process control systems and expert systems, and the development of software tools to achieve such a cooperation in a standard fashion. The talk will give

a general description of this project, and CERN contributions and expectations in particular.

Wednesday 5 April

LEAR DISCUSSION MEETING

at 16.30 hrs – PS Auditorium
bldg 6, 2-024

Future of LEAR and 'LEAR Physics'

Thursday 6 April

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Search for a Neutral Higgs Particle in the decay sequence $K_L^0 \rightarrow \pi^0 H^0$, $H^0 \rightarrow e^+ e^-$

by Harry NELSON / CERN-EP

The Standard Model predicts the existence of a neutral Higgs boson, H^0 , and predicts its couplings to matter, but does not predict its mass. Experimental and theoretical arguments against a light Higgs have recently become less convincing. If the Higgs is kinematically accessible, then the decays of the K_L^0 are one of the best places to observe it. We present the data from the NA31 experiment at CERN.

TRAINING AND EDUCATION ENSEIGNEMENT

Mardi 4 avril

LES SCIENCES AUJOURD'HUI

à 20.00 h précises – Amphithéâtre
(jusqu'à environ 22.00 h)

par R. CARRERAS

Rafel Carreras, responsable du programme d'Enseignement général au CERN, commentera et expliquera un choix d'articles parus récemment dans des revues scientifiques, et qui couvrent l'ensemble des sciences physiques et biologiques ainsi que certains aspects des relations science-société. Une attention particulière est portée au langage et aux notions utilisés afin que les explications et les commentaires soient accessibles à personnes n'ayant pas de formation scientifique.

Entrée libre

(Please note that the lecture will be given in FRENCH)

Service des Relations Publiques
Tél. 2722

INFORMATIONS GENERALES GENERAL INFORMATION

CHANGEMENT DU NUMERO DE TELEPHONE DU CERN

Avec effet à partir du **22 AVRIL 1989**, le numéro de téléphone actuel du CERN,

le 83 61 11 sera remplacé par le **767 61 11**

Par conséquent, les personnes appelant un correspondant au CERN devront composer le 767 avant le numero interne actuel. Nous vous prions d'informer les personnes qui vous appellent régulièrement de ce changement de numéro.

Nos lignes de sélection directe seront interrompues entre le 21 avril à 23.00 h et le 22 avril à 12.00 h au plus tard.

Section Téléphones et Télex
Division DD

CHANGE OF CERN TELEPHONE NUMBER

With effect from **22 APRIL 1989**, CERN's general telephone number will change from

83 61 11 to **767 61 11**

Therefore if you wish to phone someone at CERN you will have to dial 767 followed by the present internal number. Please inform the people who telephone you regularly of this change of number.

All direct telephone lines will be interrupted between 23.00 hrs on 21 April until 12.00 hrs at the latest on 22 April.

Telephone and Telex Section
DD Division