

SEMINARS SEMINAIRES

Monday 13 February

SPECIAL PS SEMINAR

at 10.30 hrs – PS Auditorium (Bldg. 6, 2-024)

Practical and theoretical aspects of SPICE

by M. CARLIN / EPFL

Today : Theoretical aspect

The SPICE program has been developed as a tool for integrated circuit simulation (Simulation Program with Integrated Circuit Emphasis), it can be used for discrete electronic circuit analysis. It performs the following analyses : DC operating point, DC sensitivities, non-linear DC transfer curves, non-linear transient, small signal frequency domain, noise, distortion and Fourier. Circuits may contain resistors, capacitors, inductors and mutual inductors, four types of dependent sources, transmission lines, and the four most common semiconductor devices : diodes, bipolar junction transistors, junction field effect transistors and metal-oxide semiconductor field transistors.

Wednesday 15 February

EUROPA POWER SUPPLY STANDARDISATION SEMINAR

Closed session

at 09.30 hrs – Auditorium
Main Building
(bldg. 500)

Open session

at 14.00 hrs – Auditorium
Main Building
(bldg. 500)

The following European power supply manufacturers attend the meeting :

A/D PRODUCTS	(CH)
AEA	(F)
AGDE	(F)
ALTRAC DELTA	(CH)
ASTEC	(DW)
BELIX	(GB)
BENTRON	(DW)
BICC VERO	(DW)
BRANDNER	(DW)
CGA	(F)
COUTANT	(GB)
DAYTRONIC	(DK)
DELTA	(NL)
ELBA	(DW)
EMI	(DW)
ERTEI	(F)
FABRIMEX	(CH)
FARNELL	(GB)
FONTAINE	(F)
FRAKO	(DW)
GOSSEN	(DW)
GOULD	(GB)

GRENSON	(GB)
KNIEL	(DW)
KRP	(NL)
LAMBDA	(F)
L.F.E.	(F)
MELCHER	(CH)
MGV	(DW)
OLTRONIX	(CH)
PHILIPS	(B)
POLYAMP	(S)
POWERTRADE	(DW)
PULS	(DW)
ROVSING	(DW)
SCHROFF	(DW)
SEDLBAUER	(DW)
S.E.I.	(A)
SIEMENS	(DW)
SODILEC	(F)
WIENER	(DW)

A detailed working programme is available at the Secretariat of the Stores Service – Technical Section – Tel. 4586.

Wednesday 15 February

THEORETICAL SEMINAR

at 14.00 hrs – TH Conf. Room

(TITLE TO BE ANNOUNCED LATER)

by G. 't HOOFT / Utrecht

Mercredi 15 février

REUNION OUVERTE DU LEP

à 14.30 h – Auditorium du LEP
(dernier étage du bât. 30)

1. *Annonces et réponses aux questions*
2. *Les modifications du SPS pour son rôle d'injecteur pour le LEP, par B. DE RAAD*

Jeudi 16 février

PRESENTATION TECHNIQUE

de 09.30 h à 12.00 h – bât. 864, 2-B12

BRÜEL & KJÆR France (DK) propose en démonstration : analyseur de signaux bicanal type 2032 - temps réel - 801 canaux (0 à 25 600 Hz), enregistreur magnétique analogique de signaux 4 voies type 7005 - portatif et autonome (cc à 60 kHz).

Langue : français

Renseignements : M. Diraison / FI/4585

Thursday 16 February

ISOLDE SEMINAR

at 10.30 hrs – SC Conf. Room (Bldg. 26, 1-025)

Laser photoionization spectroscopy of short-lived and long-lived very rare isotopes

by V.S. LETOKHOV / Institute of Spectroscopy, Academy of Sciences, Moscow, USSR

Thursday 16 February

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Study of 16 000 omega-minus decays collected in the CERN SPS hyperon beam

by R. STRUB / Centre de Recherches nucléaires, Strasbourg

In an experiment at the CERN SPS charged hyperon beam, a sample of 16 000 omega-minus decays was collected at an omega-minus momentum of 131 GeV/c. The measurements of the present experiment combined with those obtained in the previous experiment at 100 and 115 GeV/c (statistics 6 times lower) gives the omega's lifetime as $(0.823 \pm 0.013) \times 10^{-10}$ s. Values for branching ratios and decay asymmetry parameters will be presented, and the experimental results compared with theoretical calculations.

*) Tea and coffee will be provided at 16.00 hrs.

Monday 20 February

EP SEMINAR

at 17.00 hrs – Auditorium

Searches for GUT monopoles at a flux below the Parker limit

by P.B. PRICE / CERN and University of California at Berkeley

The existence of a permanent microgauss Galactic magnetic field implies that the flux of GUT monopoles is probably less than $10^{-15} \text{ cm}^{-2} \text{ sr}^{-1} \text{ s}^{-1}$. Thus detectors need to be sensitive to a flux below this 'Parker limit' as well as to velocities $\beta \lesssim 10^{-3}$. We discuss results of searches sensitive to one of the following scenarios :

- Monopoles reach the earth bare but capture nuclei before reaching the detectors, or
- Monopoles reach the earth bound to protons which they picked up in the early universe, or
- Monopoles induce nucleon decay and so spend most of their time not bound to nuclei.

Tuesday 21 February

PRESENTATION

at 14.00 hrs – DD Amphitheatre (Bldg. 31, 3rd fl.)

Floating Point Systems' Array Processors

by M. PLISKINE

Wednesday 22 February

DD SEMINAR

at 16.00 hrs – DD Amphitheatre (Bldg. 31, 3rd fl.)

Introduction to GKS at CERN

by J.C. MICHENER

Thursday 23 February

ISOLDE SEMINAR

at 10.30 hrs – SC Conf. Room (Bldg. 26, 1-025)

Tests for pions in low energy nuclear physics

by T.E.O. ERICSON / CERN

CERN-ECFA Workshop on Feasibility of Hadron Colliders in the LEP Tunnel

Lausanne, 21-24 March

CERN 26-27 March

The purpose of the Workshop is to study the feasibility of hadron colliders which it might be possible to place next to LEP at some time in the future. These studies are being made in preparation for an international seminar on the long-range prospects for high energy physics in the world which will take place in Japan in May and is organized by ICFA.

In preparation for the Workshop some study groups on experimental topics are being formed. Anyone wishing to contribute is invited to contact one of the convenors :

Jets

P. Jenni / CERN

Electron/Photon

Ph. Bloch / Saclay

Muon

W. Bartel / DESY

Tracking Chambers

A. Wagner / Heidelberg, DESY

Vertex Detection

G. Bellini / CERN, Milan

Triggering

J. Garvey / Birmingham (RAL)

Data Acquisition & Software

D. Linglin / LAPP

Forward Physics

G. Matthiae / Rome

Studies on theoretical topics and on machine design and superconducting magnet technology are also under way; anyone interested in these may contact M. Jacob or G. Brianti.

Because of space limitations, participation in the Lausanne Workshop will be by invitation. Summary talks will be given at CERN on 26 and 27 March, when all interested will be welcome.

For further information, please contact a member of the Organizing Committee : G. Brianti, W. Hoo-gland, M. Jacob, C. Joseph, J. Mulvey, C. Rubbia, J. Sacton, or the Secretary : Christine Petit-Jean-Genaz (tel. 3275).