

SEMINARS

SEMINAIRES

Monday 29 February

EF SEMINAR

at 11.00 hrs – EF Conference room
bldg 13, 2-005

Event viewing for the ALEPH detector

by Hans DREWERMANN / CERN-EF

The TPC and the calorimeters of ALEPH produce direct three-dimensional data. Techniques will be discussed for showing such three-dimensional data on (two-dimensional) screens; in particular on simple workstations.

Monday 29 February

TECHNICAL PRESENTATION

11.00 to 12.00 hrs (30 min. + discussion)
bldg 30, 4-035

Developments at the Power Electronics Group of GEC Engineering Research Centre

by C.D.M. OATES / Head Power Electronics Group

The Power Electronics Group of the GEC Engineering Research Centre at Stafford has built up considerable experience in high power GTO drives and the instrumentation of high power test rigs. During the early stages of GTO development, the Group developed the first high power GTO gate drive in the UK and its more recent work on the development of megawatt traction drives marks a milestone in the development of compact high power drives.

The talk will briefly cover work that has been carried out in support of GEC companies. However GEC has also worked for CERN, Culham and Jet. Topics will include measurement techniques, including the use of Rogowski coils for power systems over both extremes of frequency and magnitude, a 15MHz remotely controlled optical telemetry unit with a differential 1 M Ω , 20 pF input and a 1000 V, 20 ns rise time pulse generator for calibrating 10 kV oscilloscope probes. It is hoped to provide a demonstration of some of the measurement techniques.

On the subject of Power devices and applications, work will be described into the series and parallel operation of GTOs and the use of snubber energy recovery for Mega Watt level converters. Also a vacuum circuit breaker actuator will be described with a closing time of better than 8 ms and with no contact bounce.

Language : English

Renseignements : M. Diraison / FI / 4585

Tuesday 1 March

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

New results on charm in hadroproduction

by S. KWAN / CERN-EP

Experiment NA32 was designed to study the hadronic production and decay of charmed particles. For the first time charge-coupled devices together with silicon microstrip counters were used as vertex detectors. A trigger on a K^+K^- or $K^\pm p^\mp$ pair was implemented in order to select particularly Λ_c and D_s decays. From 17×10^6 triggers, collected in a 230 GeV negative beam using a 2.5 mm long Cu target, clean samples of Λ_c , D^0 , D^+ and D_s in various decay modes are obtained. Altogether, about 1000 fully reconstructed charm decays have been found. In 35 events, both decay vertices have been fully reconstructed. The lifetime and the production characteristics of Λ_c are presented. The Σ_c^0 and Σ_c^{++} production is investigated. Several new rare D^0 , D^+ and Λ_c decay modes are reported.

* Tea and coffee will be provided at 16.00 hrs.

Wednesday 2 March

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference room

Lattice QCD simulations beyond the quenched approximation

by A. UKAWA / CERN

Application of the stochastic quantization leads to an algorithm for lattice QCD simulations which fully incorporates the effect of dynamical quarks. A series of simulations using the algorithm on a reasonably large lattice have been carried out. Our findings concerning the effect of dynamical quarks on hadron masses as well as the nature of the finite temperature phase transition of QCD with light dynamical quarks are presented; most of the effect on the ground state hadron masses can be absorbed into an effective drift of the coupling constant. The finite temperature transition is first order for the number of light flavours greater than or equal to two.

Wednesday 2 March

LEP SEMINAR

at 14.30 hrs – LEP Auditorium

Smoke control for the underground areas of LEP

by M. HATCH / CERN-LEP

In the event of a fire in an underground area the generated smoke could rapidly produce hazardous conditions to those persons in the affected zone. Investigations have been made into the possible smoke movement, patterns for the different underground areas of LEP and these will be explained together with the measures that are foreseen for the actions on the ventilation systems.

Wednesday 2 March

LEAR DISCUSSION MEETING

at 15.00 hrs – PS Auditorium
bldg 6, 2-024

C quark physics with $p\bar{p}$ at low energy

by M. POULET / Annecy, P. KROLL / CERN,
and J.M. BROM / Strasbourg

Friday 4 March

EP SEMINAR

at 11.00 hrs* – Auditorium

A search for $K_L^0 \rightarrow \ell_1 \ell_2 K_L^0 \rightarrow \pi^0 \ell_1 \ell_2$

by E. MANNELLI / Yale, BNL

** Please note unusual day and time!*

Results from the 1987 runs of experiment #780 at Brookhaven are now available. New upper limits for the strangeness changing neutral currents, $K_L^0 \rightarrow \mu e$, $K_L^0 \rightarrow ee$ and $K_L^0 \rightarrow \pi^0 \mu e$ will be presented. Interesting events consistent with $K^0 \rightarrow \pi^0 \mu ee$ and $K_L^0 \rightarrow \pi^0 \mu \mu$ will also be presented.

Monday 7 March

EF SEMINAR

at 11.00 hrs – EF Conference room

bldg 13, 2-005

Polarization at LEP

by Daniel TREILLE / CERN-EP

The possibility of using polarized beams at LEP is presently under study. The physics case is reviewed. The main technical problems are briefly described. To exploit fully the potential of polarization, new experimental requirements are implied and we discuss them.

Tuesday 8 March

CERN COLLOQUIUM

at 16.30 hrs – Auditorium*

**High temperature oxide superconductors
Can their high magnetic field promise be achieved soon?**

by David C. LARBALESTIER / Applied Superconductivity Center, University of Wisconsin, Madison

Wednesday 9 March

PRESENTATION

10.00 to 12.15 – DD Auditorium, bldg 31, 3-005

14.00 to 17.00 hrs – OPAL Counting Room

(Car park behind bldg 28)

**The PRIAM VMEbus Blanket Purchase
Contracts – 1988**

by Creative Electronic Systems SA
Tekmis (formerly Thomson Microsystems)
represented by Modulator SA
Force Computers represented by W. Moor SA
Motorola represented by Omni Ray AG

Mercredi 9 mars

SEMINAIRE LEP

à 14.30 h – Amphithéâtre LEP

Contrôle du réseau électrique du LEP

par A. SWIFT / CERN-LEP

Wednesday 9 March

CERN COLLOQUIUM

at 16.30 hrs – Auditorium

The tau decay mode problem

by Martin PERL

Friday 11 March

SPS SEMINAR

at 11.00 hrs – SPS Auditorium

bldg 864, 1st floor

Transients in travelling wave structures

by G. DÔME / CERN-SPS

Friday 11 March

EP SEMINAR

at 14.00 hrs* – Auditorium

Neutrino production of dimuons at the Tevatron

by Wesley H. SMITH / Columbia University

** Please note unusual day and time!*

Du lundi 14 au vendredi 18 mars

SEMINAIRE MACINTOSH

SUR MICROPLANNER PLUS

de 14.00 à 17.00 hrs

Logiciel de planification (méthode Parthe)

Les participants devront avoir les connaissances de base du Macintosh.

Pour les inscriptions, s'adresser à Mme W. HUG / LEP,
tel. 8-7159 de 08.00 à 12.00 h.

Nombre de places limitées.

Date limite d'inscription : mercredi 9 mars.

TRAINING AND

EDUCATION

ENSEIGNEMENT

ENSEIGNEMENT GENERAL

Tél. 2844

Jeudi 3 mars

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS