

SEMINARS

SEMINAIRES

Monday 26 October

EP SEMINAR

at 16.30 hrs – Auditorium

Pair production and bremsstrahlung in crystals; results from WA81

by S.P. MØLLER / University of Aarhus

The aim of WA81 was to study pair production and bremsstrahlung in single crystals at very high energy (50 – 170 GeV). The results from WA81 will be related to the mechanisms of coherent bremsstrahlung/pair creation and bremsstrahlung/pair creation in a constant electromagnetic field. Finally, application of the effects to the construction of compact, direction-sensitive electromagnetic calorimeters for very high energies will be suggested.

Tuesday 27 October

SPS EXPERIMENTS COMMITTEE

Open session

at 09.00 hrs – Auditorium

1. Status report on the Omega RICH (G.D. Lafferty).
2. Status report on WA70 (M. Martin).
3. Proposal for a new hyperon beam experiment at the CERN-SPS using the Omega facility (Bologna – CERN – Genoa – Heidelberg (Physikal. Inst.) – Heidelberg (Inst. für Kernphysik) – Mainz – Mons – Moscow – Saclay Collaboration; H.-W. Siebert; SPSC 87-43/P 233.
4. Investigations of the energy-and angular dependence of ultrashort radiation lengths in Si, Ge and W single crystals (Aarhus – CERN – Strasbourg collaboration; E. Uggerhøj; SPSC 87-47/P 234).
5. Measurement of ϵ'/ϵ in CP violating K^0 decays (CERN – Edinburgh – Mainz – Orsay – Pisa – Siegen Collaboration; D. Fournier; SPSC 87-48/P 174 Add. 4).

Closed session

Tuesday 27 October at 14.00 hrs, Conference Room, 6th floor, Administration Building (to be continued on Wednesday 28 October at 09.00 hrs).

Mardi 27 octobre

PRESENTATION TECHNIQUE

de 09.00 à 12.00 h et de 13.00 à 16.00 h
parking PTT, près du bât. 63

Bader Handels AG (CH), représentant Wilhelm Bader GmbH & Co KG (D) et KKW Technik (D), propose en exposition démonstration :

1. **Bader :**
tous coffrets, armoires ou pupitres électriques en fabrication spéciale selon plans ou indications du client, principalement en tôle d'acier ou acier inoxydable.

Applications : de la machine-outil à l'équipement de laboratoire.

2. KKW :

a) climatiseurs pour armoires et pupitres électriques à fixer contre les portes, les parois, sur le toit, à côté des armoires ou à l'intérieur (également livrables en rack 19').

b) stabilisateurs de température de liquides destinés au refroidissement (ou chauffage) des différents liquides (eau, huile, etc.) utilisés pour le refroidissement ou le graissage de machines ou équipements industriels.

Langues : allemand, français

Renseignements : M. Diraison / FI / 4585

Wednesday 28 October

LEP SEMINAR

at 14.30 hrs – LEP Auditorium
bldg 30, 7th floor

CLIC : the CERN approach to a 1 + 1 TeV linear collider

by H. HENKE / CERN-LEP

A feasibility study is on the way for a CERN linear electron-positron collider (CLIC). The c.m. energy is assumed to be 2 TeV and the luminosity above $10^{33} \text{ cm}^{-2} \text{ s}^{-1}$. Such a machine requires a high accelerating gradient and efficiency in order to keep length and power consumption within reasonable limits. The study is based on a normal conducting radio-frequency (RF) linac with a resonant frequency of 30 GHz. The RF power is derived from an auxiliary beam running in parallel, which is powered by a superconducting accelerating system.

Jeudi 29 octobre

PRESENTATION TECHNIQUE

de 10.00 à 12.00 h et de 14.00 à 16.30 h
Amphithéâtre DD, bât. 31, 3-005

Captronix SA (CH) propose en démonstration :

1. Carte et écran graphique pour CAO sur PC, sous-ensemble graphique Magus et Clipper (USA/J);
2. Imprimante-traceur Shinko à transfert thermique (J);
3. Carte processeur Eograph (USA), prend en charge les calculs nécessaires à la réalisation de graphiques sur les imprimantes.

Applications :

- a) conception assistée par ordinateur (CAO);
- b) publication assistée par ordinateur (PAO);
- c) réalisation de transparents en couleur pour rétro-projecteur;
- d) applications graphiques générales.

10.00 à 10.20 h présentation des systèmes Clipper et Shinko

10.20 à 12.00 h démonstration et discussion

14.00 à 14.20 h présentation des systèmes Clipper et Shinko

14.20 à 16.30 h démonstration et discussions.

Langues : français, anglais

Renseignements : M. Diraison / FI / 4585

Monday 2 November

EF SEMINAR

at 11.00 hrs – EF Conf. Room (bldg 13, 2-005)

Technical aspects of the UA2 scintillating fibre detector

by Chris BOOTH / CERN-EF

Part of the current upgrade of the UA2 detector involves the installation of a large tracking detector using scintillating fibres, and incorporating a lead converter to identify electromagnetic particles. The Scintillating Fibre Detector is a cylinder of radius 38 to 44 cm, composed of 60000 plastic optical fibres of over 2m in length. This talk will place particular emphasis on the readout system of the detector, which amplifies, multiplexes and digitizes the signals from the fibres. This uses large aperture, de-magnifying image intensifiers, providing a gain of ~ 40000 , charge-coupled devices (CCDs) converting the optical image into a single train of electrical pulses for 2000 fibres and Fastbus digitizers, providing a high degree of data reduction. Results from beam tests of a full-scale prototype of 960 fibres with readout will be presented, together with very recent experiences with cosmic rays passing through the complete detector.

Monday 2 November

EP SEMINAR

at 16.30 hrs – Auditorium

Charmed D meson lifetime and branching ratio measurements from FNAL Experiment E691

by Johannes RAAB / UC Santa Barbara and CERN

EF AUTUMN SEMINARS 1987

EF Division is organizing a new series of seminars to take place this autumn.

Preliminary programme :

9 November	Report on the IEEE Nuclear Science Symposium in San Francisco
16 November	Software development for microprocessors using OS-9
23 November	Progress in Delphi RICH construction
30 November	Logic simulation of electronics circuits
7 December	Muon catalyzed fusion

Sauf avis contraire, les séminaires auront lieu le lundi de 11.00 h à 12.00 h dans la Salle de Conférence EF, Bât. 13, 2-005.

A large charm sample was collected by experiment 691 at FNAL using the Tagged Photon Spectrometer and silicon μ -strip detectors. The data sample of 100 million events has been completely reconstructed and the analysis for D meson lifetimes and some of the D branching ratios has been completed. The experimental setup, the reconstruction and analysis, as well as the results will be reported on.

Mercredi 4 novembre

SEMINAIRE LEP

à 14.30 h – Amphithéâtre LEP

bât. 30, 7e étage

Déposition de niobium en couche mince pour la fabrication de cavités supraconductrices

par N. HILLERET / CERN-LEP

Wednesday 4 November

CERN COMPUTER SEMINAR

at 16.00 hrs – Auditorium

Parallel computer architecture overview

by Philip C. TRELEAVEN / Department of Computer Science, University College London

SEMINAIRES EF D'AUTOMNE 1987

Cet automne, la division EF organise une nouvelle série de séminaires.

Programme préliminaire :

Speaker to be announced
Tim CHARITY CERN-EP
Ettore ROSSO CERN-EF
François BOURGEOIS CERN-EF
Herbert STRÖBELE CERN-EF

Unless otherwise indicated, the seminars will take place on Mondays from 11.00 hrs to 12.00 hrs in the EF Conference Room, Bldg 13, 2-005.