

SEMINARS SEMINAIRES

Lundi 27 Septembre

SEMINAIRE ISR

à 14h30 - Amphithéâtre ISR,
dernier étage du bât. 30

Dommages causés aux matériaux par les
radiations ionisantes

par H. SCHOENBACHER / CERN-HS

La présentation résumera les résultats obtenus des essais de résistance aux rayonnements ionisants sur les matériaux installés autour des accélérateurs du CERN. Il s'agit surtout d'isolants pour aimants et pour câbles, mais également d'un grand nombre d'équipements auxiliaires tels que tuyaux, joints, lubrifiants, peintures, etc. Elle s'adresse surtout au personnel engagé dans le choix des matériaux pour la construction du LEP. A cause des rayonnements synchrotroniques les doses absorbées seront plus élevées dans cette installation que dans les tunnels des accélérateurs CERN actuels.

Monday 27 September

DD SEMINAR

at 16.00 hrs - Council Room*

(note the unusual day of the week!)

The implications of physical dispersal on
operating systems

by Douglas JENSEN** / Carnegie Mellon Univ.,
Pittsburg

Almost every distributed system is a network, which is a collection of interconnected computers, each having a separate Operating System (OS) to independently manage the local executive resources. Many applications need the improved reliability and modularity potentially obtainable from a decentralized computer system, which has a conceptually singular but physically replicated global OS to manage all executive resources in an integrated fashion. Such physical dispersal within a single OS creates new challenges which demand new concepts and techniques. These transaction based OS exploit indeterminism, and turn out to be a generalization of conventional centralized Operating System ideas.

*) Coffee and tea will be served before the seminar at 15.30 hrs.

**) Professor Jensen will be at CERN Monday 27 and part of Tuesday 28. If you wish to meet him, please contact P. Palazzi at 45 51.

EP SEMINAR

at 17.00 hrs - Auditorium

A high resolution silicon detector telescope to measure short lived particles for the NA11 spectrometer

by E. BELAU / MPI, Munich

Silicon strip detectors achieving a spatial resolution of 5 μm have been developed. Their principles of operation and design will be discussed. Since April 1982 a telescope of 8 such detectors is installed in the NA11 spectrometer to measure production and decay of charmed particles in 200 GeV π^- Be interactions.

Tuesday 28 and Wednesday 29 September

SPS EXPERIMENTS COMMITTEE

OPEN SESSION

Tuesday 28 September at 09.00 hrs -
Auditorium

1. Investigation of charm production in hadronic interactions using high-resolution silicon detectors (Amsterdam-Bristol-CERN-Cracow-MPI Munich-Rutherford Collaboration; R. Klanner, SPSC 82-57/P 180).
2. Search for direct production of gluonium states in high $p_T\pi^-N$ -collisions at 350 GeV/c (Athens-Bari-Birmingham-CERN-Paris Collaboration; E. Quercigh; SPSC/82-62/P 181).
3. High energy photoproduction of charm (HOLEBC-EHS photon Collaboration : Brussels-CERN-Mons-Padova-Paris VI-Rome-Serpukhov-Stockholm-Strasbourg-Trieste-Vienna; S. Reucroft; SPSC/82-63/P 182).

CLOSED SESSION

Wednesday 29 September at 09.00 hrs, 6th fl.
Conf. Room, Admin. bldg.

Tuesday 28 September

TECHNICAL PRESENTATION

from 14.00 hrs to 16.00 hrs - Bldg. 13, 2-005

DIGELEC INC. (CH) will give a talk on the UP—803 Digelec's interactive menu-driven programmer with built-in CRT.

Language : English (French, German, Italian on request)
Information : M. Diraison / FI / 4585

Wednesday 29 September

TECHNICAL PRESENTATION

from 09.00 hrs to 16.00 hrs - bldg. 17, 1-007

PRECITEK ELECTRONIC AG (CH) will exhibit electronic test and measuring equipment : data logger (Acurex), logic analysers (Dolch), high precision DVM's (Datron), PROM programmers (Minato, Datron), general purpose generator and instruments (Newtronics, Feedback), line disturbance monitor (Franklin), microprocessor development system (PEP), microprocessor Euro-card (PEP).

Language : English, French, German
Information : M. Diraison / FI / 4585

Wednesday 29 September

PS SEMINAR

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

An example of heavy ion fusion reactor scenarios
- HIBALL

by K.H. REICH / CERN-PS

After recalling the requirements for the beam-target interface (beam deposition physics, beam time structure, potential buildup, etc.) and the driver (linacs, accumulators, transfer lines, final focus, etc.) the HIBALL (Heavy Ion Beams And Lithium Lead) scenario is presented and its evolution at the recent Symposium on accelerator aspects of HIF is described.

THEORETICAL SEMINAR

at 14.00 hrs - TH Conf. Room

Hadroproduction of direct photons

by C.W. FABJAN / CERN-EP

Recent information on high p_T photon production includes : p_T , $\sqrt{s}$, y dependence; angular and charge correlation studies of associated particles; estimates of bremsstrahlung contributions; first observations of the $\gamma\gamma$ continuum. Second generation experiments aim to explore the lower p_T regime and to provide adequate sensitivity for direct photon studies in upcoming $p\bar{p}$ collisions.

Monday 4 October

EF SEMINAR

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

Superconducting accelerator cavities

by E. HAEBEL

In a first part I will introduce into the subject of RF cavity resonators with the aim to explain the terminology used in this field. Then I will discuss the problems and advantages of using superconducting cavities in an accelerator environment in taking the existing normal conducting technology as reference.

SPECIAL THEORY SEMINAR

Organized in preparation for the
WORKSHOP ON SPS FIXED TARGET PHYSICS

at 14.00 hrs - Auditorium

The six-quark model and CP Violation

by S. PAKVASA

Rare kaon decays and new physics

by J. ELLIS

CP Violation in a cosmological perspective

by D.V. NANOPOULOS

ACTIVITIES IN PREPARATION FOR THE
WORKSHOP ON SPS FIXED TARGET PHYSICS
IN THE YEARS 1984—1989

Following the announcement in July of the workshop to be held at CERN on 6-10 December 1982, the conveners

in charge of the various sessions have contracted as many as possible interested physicists and organized a number of meetings to shape up the programme and, when appropriate, to establish preparatory working groups.

For the neutrino session, convener D. Haidt (DESY), a first meeting was held at CERN on August 24. A second one will take place again at CERN on 14 and 15 October. The activity of a number of working groups on neutrino physics has started.

The physicists interested in new particles and decays are convened by L. Foà (Pisa) to a meeting at CERN on 5 October; for muon physics J.-J. Aubert (Marseille) has called a meeting on 7 October, again at CERN.

For nuclear beams and targets, convener W. Willis (CERN), a first meeting held on 17 September will be followed by a second on 12 October.

D. Treille (CERN) has already contacted many physicists on various aspects of hadronic physics and some working groups (e.g. polarized beams and targets) are busy already.

In parallel to studies on experimental aspects of the physics programme it was considered useful, in preparation for the workshop, to organize (c/o M. Jacob - CERN) groups of theoretical seminars on specific topics. In this context during the afternoon of Monday 4 October, CP Violation will be reviewed (see above).

The widest possible participation is of course welcome and comments are invited by interested physicists who are encouraged to contact the session conveners, M. Jacob or I. Mannelli (CERN) as early as possible.

Monday 4 October

ISR SEMINAR

at 14.30 hrs - ISR Auditorium

(top floor of bldg. 30)

Particle acceleration by laser plasma

by D. SULLIVAN / Mission Research Corp.

Tuesday 5 October

ISR SEMINAR

at 14.30 hrs - ISR Auditorium

(top floor of bldg. 30)

ULTRAFISH

by K. HALBACH / LBL

ULTRAFISH is a program for calculating modes and fields in RF cavities with cylindrical symmetry.

Wednesday 6 October

LEP PROJECT COMMITTEE

OPEN SESSION

at 14.30 hrs - ISR Auditorium,

last floor of bldg. 30

Latest thinking on LEP power supplies and their controls

by H. ISCH, J. PETT, P. PROUDLOCK

Thursday 7 October

CERN COLLOQUIUM

at 16.30 hrs - Auditorium

Composite quarks and leptons - hopes and problems

by Haim HARARI, Weizmann Institute

STOP PRESS / DERNIERE MINUTE

PCI-MOTORCON EXHIBITION AND CONFERENCE AT PALEXPO

CERN/LEP has an exhibition stand and is participating in the Conference : the LEP Power Group are presenting three papers on Wednesday morning, 29th September.

Friday 8 October

ECFA WORKING GROUP ON DATA PROCESSING STANDARDS

Council Chamber

The ECFA Working Group on Data Processing Standards are holding a public meeting at which status reports will be presented on several topics and projects. All are welcome. For more information, contact E.M. Rimmer / DD, tel. 3045, 4976.

14.30 HEP Databases : J. Hart / RAL

15.15 The GEM Project : E. Pagiola / CERN

15.30 Tea

16.00 Links and Networks : D.M. Sendall / CERN

16.45 Pattern Recognition : M. Regler / Vienna

17.00 End of Meeting

TRAINING AND **EDUCATION** **ENSEIGNEMENT**

ENSEIGNEMENT GENERAL (1982-1983)

1er Trimestre

Jeudis 7, 14, 21 octobre

4, 11, 18, 25 novembre

2, 16 décembre

de 13h00 à 13h30 - Amphithéâtre

Science pour tous (cycle d'exposés des uns plus particulièrement aux personnes n'ayant pas de formation scientifique)

par R. CARRERAS

ACADEMIC TRAINING (1982-1983)

1st Term

October 20, 22

from 10.30 hrs to 12.30 hrs - Auditorium

Permanent magnet technology

by W. BARAN / Krupp Institute, Essen

October 25, 26, 27, 28, 29

11.00 hrs to 12 hrs - Auditorium

Quantum processes in black holes and cosmology

by P.C. DAVIES / University of Newcastle

November 18, 19, 22, 23, 24, 25, 26

11 hrs to 12 hrs - Auditorium

Electroweak interactions

by L.M. SEHGAL / RWTH, Aachen

November 11, 12

11 hrs to 12 hrs - Auditorium

Particle detectors - Tracking chambers

by H.J. HILKE / CERN

November 15, 16

11 hrs to 12 hrs - Auditorium

Particle detectors - Calorimeters

by O. ULLALAND / CERN

November 29, 30

11 hrs to 12 hrs - Auditorium

Particle detectors - Ring-imaging Cerenkov counters (*in French*)

by J. SEGUINOT / Ecole polytechnique, Palaiseau

December 2, 3

11 hrs to 12 hrs - Auditorium

Particle detectors - Silicon semiconductor detectors

by H. HEIJNE / CERN

The abstract of the lectures (together with any change of dates, time or place) will be published in the CERN Bulletin and on noticeboards about two weeks before each series of lectures.

Training and Education Service
Secretariat : Tel. 2844