

SEMINARS SEMINAIRES

Friday 11 March

EP SEMINAR

at 14.00 - Auditorium

Neutrino production of dimuons at the Tevatron

by Wesley H. SMITH / Columbia University

Monday 14 March

PRESENTATION

09.15-12.30 hrs and 14.00 - 16.00 hrs

DD Auditorium, bldg 31, 3-005

Inmos Transputer developments

by P. ECKELMANN, D. McCUSKER and
M. ZEDER / Inmos Corporation

The aim of the presentation will be to introduce the latest INMOS Transputer developments, in particular the new modular hardware standards and new software support tools.

09.15-09.30 *Introduction (David McCusker and
Martin Zeder)*

09.30-11.00 *An overview of transputers and OCCAM
(Peter Eckelmann)*

11.00-11.15 *Break*

11.15-11.30 *Overview of INMOS and its products
(David McCusker)*

11.30-12.30 *Hardware; chip and board level products*

12.30-14.00 *Lunch*

14.00-15.00 *Software; new software tools*

15.00-16.00 *Question and answer session.*

Monday 14 March

EF SEMINAR

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

**Design considerations for CMOS integrated
circuits in future particle physics experiments**
by Pierre JARRON / CERN-EF

Application Specific Integrated Circuits (ASIC), usually in custom CMOS technology, are now becoming key devices in modern electronics. In the field of HEP, ASIC applied to the readout electronics of particle detectors can provide improved solutions to the problem of data acquisition in collider experiments. Design considerations for front-end amplifiers realised in CMOS technology, will be discussed, in particular the trade-off between power consumption, speed, noise, channel density and detector capacitance will be analysed. Preliminary results of the ASIC chip developed for the readout of a silicon pad detector for the upgrade of the UA2 experiment will be presented. Trends in the development of CMOS custom chips for future collider experiments will also be discussed.

Monday 14 March

EP SEMINAR

at 16.30 hrs - Auditorium

**Possibilities to observe CP-violation in
 $e^+e^- \rightarrow b\bar{b}$**

by Paul GROSSE-WEISSMAN / SLAC

After a review of the prospects for CP-violation with B mesons, the crucial steps for an experimental observation of CP-violation in connection with neutral B-Meson mixing are pointed out : high counting rate, effective particle/antiparticle tagging technique, high reconstruction efficiency, and lifetime information [in particular at the $\Upsilon(4s)$]. At the Z^0 resonance with polarized beams the large forward-backward asymmetry in b-quark production offers an experimentally powerful method of tagging particles or antiparticles. This method, compared with the traditional lepton tag technique requires an order of magnitude fewer events. At the $\Upsilon(4s)$ lifetime information and lepton identification are crucial to separate particles and antiparticles. A boosted $\Upsilon(4s)$ from an asymmetric e^+e^- collision is a possible solution to this problem. A quantitative comparison between the Z^0 resonance with polarized beams and a boosted $\Upsilon(4s)$ shows that luminosities of a few times $10^{32} \text{cm}^2 \text{sec}^{-1}$ at the Z^0 resonance and about $10^{34} \text{cm}^2 \text{sec}^{-1}$ at the $\Upsilon(4s)$ are needed. Prospects of building colliders with such a high luminosity are discussed.

Tuesday 15 March

LEP EXPERIMENTS COMMITTEE

Open session

at 09.00 hrs - Auditorium

09.00-09.10 *Introductory Statement (J.J. Thresher)*

09.10-09.40 *Status of LEP (E. Picasso)*

09.40-10.20 *Installation of experiments (F. Bonaudi)*

10.20-10.50 *Machine induced particle backgrounds at
the LEP detectors (G. von Holtey)*

10.50-11.10 *Coffee break*

11.10-12.10 *Report on MEDDLE and the MUSCLE
report (D. Williams)*

12.10-12.25 *Status of SLC (R. Taylor)*

Status of LEP Experiments

12.25-13.10 *L3*

Lunch

14.00-14.45 *ALEPH*

14.45-15.30 *DELPHI*

15.30-16.15 *OPAL*

Closed session

at 16.45 hrs, 6th floor Conference Room, Administration Building to be continued on Wednesday 16 March at 09.00 hrs.

Mardi 15 mars

FORUM AUTOCAD

de 09.00 à 12.00 h – Amphithéâtre LEP
bldg 30, 7^e étage

Le Logiciel de DAO AUTOCAD est utilisé au CERN pour la réalisation de dessins de mécanique et schématique. Ce forum permettra aux utilisateurs actuels et futurs de se rencontrer et d'échanger leur expérience. Des présentations informelles sur les matériels, le logiciel et des expériences d'utilisateurs CERN seront suivies par un débat.

Renseignements : C. Hauviller / LEP / 2946, 2937

Mercredi 16 mars

PRESENTATION

de 09.00 à 12.00 h – Amphithéâtre SPS
bât. 864, 1^{er} étage

Logiciels PCAD

par Renaud MATHIEU / PCAD, Bruxelles

Présentation du logiciel PSpice, logiciel de simulation analogique (durée environ 1h30), suivie d'une discussion sur les logiciels-PCAD.

Préparez vos questions!

Langues : français, anglais

Renseignements : D. Peron / SPS / 5163, 5210

Wednesday 16 March

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

The radiative corrections to the electroweak parameters in dominant fermion-loop approximation

by D. SCHILDKNECHT / University of Bielefeld

A simple and transparent treatment of the dominant radiative corrections to the W and Z mass formulae and to neutrino scattering is given, including the possibility of a very massive top quark, $m_t \geq M_W$. Our agreement with the results of much more involved one-loop calculations in the $SU(2) \times U(1)$ theory within errors of $\delta M(W) \cong (\alpha/2\pi) M(W) \cong 100 \text{ MeV}$ in $M(W)$, and $\delta \sin^2(W)^2 \cong 0.002$ in $\sin^2(\theta_w)^2$. As a strategy for future precision tests we suggest attempting to isolate and to test directly the 'new physics' of boson loop and other new phenomena by comparing with and looking for deviations from the present calculations. As physics will be stressed rather than technicalities, the talk will be well suited also for experimentalists.

Mercredi 16 mars

REUNION OUVERTE DU LEP

à 14.30 h – Amphithéâtre LEP

Les convertisseurs de puissance LEP

par H.W. ISCH / CERN-LEP

Résumé et film vidéo de l'état d'avancement des convertisseurs de puissance pour le système d'aimants, les klystrons RF, et les pompes ioniques du vide.

Friday 18 March

PRESENTATION

SABER, an analog simulator

10.00–12.00 Introduction and presentation of SABER

14.00–16.00 Presentation of SABER on SUN-workstations, discussion

DD Auditorium, bldg 31, 3-005

by H.W. FRINKEN and E. SCHINAGEL / RSE Rhode & Schwarz, Munich

SABER is an Interactive Analog Simulator developed at ANALOGY Inc. and addresses the system design issues. It is designed to simulate systems of mixed technologies and is not restricted to circuit simulation. In contrast to SPICE and similar programs, models are separated from the simulator and a built-in high level modelling language allows the creation and addition of user defined models. The program also accepts SPICE netlists.

Lundi 21 mars

SEMINAIRE EF

à 11.00 h – Salle de conférence EF
bât. 13, 2-005

Système de surveillance générale des zones d'expérience LEP

par Edo SBRISSA / CERN-EF

Un bref rappel de la nécessité d'un système de surveillance en matière de sécurité dans chaque complexe expérimental LEP sera suivi d'une description des moyens d'acquisition et de traitement des paramètres indispensables à GSS pour remplir les missions qui lui seront confiées en accord avec l'opération de l'expérience.

Monday 21 March

EP SEMINAR

at 16.30 hrs – Auditorium

Observation of charmed and strange baryons with the MARK II Detector at PEP

by Spencer KLEIN / SLAC

*Measurements of production and decay rates of charmed and strange baryons in 29 GeV e^+e^- collisions are presented. Λ_c are partially reconstructed via a Λ plus a lepton. Λ_c production and decay will be discussed, and a search for Σ_c will be presented. Measurements of production rates of Ξ^- , Ξ^{*0} and Ω -baryons will be presented. The implications of the measurements will be discussed, in terms of diquark based models.*

Tuesday 22 March

MEETING ON FASTBUS DEVELOPMENTS

at 09.00 hrs – Theory Conference Room

Agenda

1. Software for initializing and managing FASTBUS systems

by E. RIMMER / CERN

2. a) *The XOP trigger processor in the FASTBUS environment*
by P. BÄLHER / CERN
- b) *XOP as FASTBUS processor in L3*
by J. LECOQ / LAPP, Annecy
3. *VS8 to FASTBUS read-out controller for OPAL*
by M. WEYMANN / University of Freiburg
4. *FASTBUS interconnect philosophy*
by P. PONTING / CERN
5. *A.O.B.*

Tuesday 22 March

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Results from Tristan at $50 < \sqrt{s} < 56$ GeV

by Hiroyuki SAGAWA / KEK

Thursday 24 March

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Prototype Barrel RICH and beyond

by T. YPSILANTIS / University of California

TRAINING AND EDUCATION ENSEIGNEMENT

ENSEIGNEMENT GENERAL

Tél. 2844

Jeudi 17 mars

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS

ACADEMIC TRAINING

Tel. 2844-3364

14, 15, 16, 17 & 18 March

11.00 h to 12.00 – Auditorium

(except on 15 March : Council Chamber)

Computer communications : theory and practice

by B. CARPENTER & F. FLÜCKIGER /
CERN-DD

Enseignement Technique

COURS EXTERIEURS

L'Institut National des Sciences Appliquées (INSA) de Lyon organise, en collaboration avec l'Université de Lyon, un stage sur le thème

Formation à la gestion de projets industriels et technologiques.

Ce stage s'adresse aux chercheurs issus des écoles d'ingénieurs, de l'université ou des laboratoires industriels. Il a pour objectif d'apporter une **formation** permettant de prendre en compte les problèmes techniques, économiques ou juridiques liés aux contacts avec l'industrie dans le cadre de la valorisation de la recherche ou de la recherche sous contrat.

Durée : 5 x 2 jours : 25/26 avril - 3/4 mai - 18/19 mai
2/3 juin - 10/13 juin

Les personnes intéressées peuvent obtenir un dossier d'inscription et des informations plus détaillées en s'adressant à :

INSA - LYON

Mission Formation Continue - 601

20, avenue Albert-Einstein

F-69621 VILLEURBANNE Cedex

tél. 78.94.81.42

A l'attention de Mme Michèle Stuckens

INFORMATIONS GENERALES

GENERAL INFORMATION

LYCEE INTERNATIONAL DE FERNEY-VOLTAIRE

Séminaires mathématiques

Nous cherchons, dans le cadre des 'Séminaires mathématiques' au lycée, un conférencier pour l'année scolaire 1988-89, sur le thème 'Les fractals'.

Contacter Françoise Decombe (50417705) pour ce thème ou tout autre thème original à la portée d'élèves de 15 à 18 ans.

OBJET TROUVE

Pendentif or avec chaînette, trouvé dans un couloir au PS, bât. 8, rez-de-chaussée.

A réclamer éventuellement aux objets trouvés, bât. 33, R-012.

Louis Henny