



## SEMINARS SEMINAIRES

### Monday 4 May

#### EP SEMINAR

at 16.30 hrs – Auditorium

#### **A measurement of the average lifetime of B hadrons with the TASSO experiment**

by Kai-Uwe PÖSNECKER / Universität Hamburg / DESY

*The average lifetime  $\tau_B$  of B hadrons produced in electron-positron annihilation has been measured with the TASSO experiment at PETRA. A new method for the determination of  $\tau_B$  has been developed. It is based on all hadronic events passing a two jet cut. No explicit enrichment of events containing boson quarks is performed. A variable called the dipole moment  $q$  is measured for each event. This quantity describes the separation of the vertices of the two jets in the detector plane perpendicular to the beam axis. These vertices are calculated from all well reconstructed tracks per jet. The dipole moment for a hadronic event with primary boson quarks is strongly correlated with the distance between the decay vertices of the two hadrons containing the boson and antiboson quark.  $\tau_B$  is derived from a comparison of the mean values  $\langle q \rangle$  from the data and from simulated events of different B-lifetimes. The method itself and recent results will be presented and compared with other measurements.*

### Wednesday 6 May

#### THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

#### **Hadronic structure from lattice gauge theories**

by C.T. SACHRAJDA / CERN and Southampton University

*We review the status of a programme to study the deep inelastic structure functions and electromagnetic and weak form factors of hadrons on the lattice. Among the theoretical questions which will be discussed are the renormalization properties of the corresponding operators using the lattice renormalization scheme and the problem of power divergences which arises because the symmetry group of the lattice is the hypercubic group and not the full Euclidean group. First numerical results will be presented for the structure function of the pion.*

### Wednesday 6 May

#### LEP SEMINAR

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

#### **Selected papers and posters presented at the Washington Conference, March 1987**

by LEP Division Authors

### Wednesday 6 May

#### CERN COMPUTER SEMINAR

at 16.00 hrs – Auditorium\*

#### **Logic and computing**

by J.A. ROBINSON / Syracuse University

*The common principle underlying both computation and deductive reasoning has been understood since the time of Hobbes and Leibniz. Their work set in motion a vast multi-generation project to devise a complete formal symbolic system of logic sufficient in principle, in its modern versions, not only to explain and express all conceivable algorithmic means of calculation, but also to formulate, display and justify all possible methods of proof. This project was essentially completed in the mid 1930s by the work of Godel, Church, Turing and others, and today is bearing fruit in applications to programming methodology and knowledge engineering.*

ALAN ROBINSON is University Professor at Syracuse University, New York. He graduated from Cambridge University in 1952, and received his PhD from Princeton University in 1956. After four years with the du Pont Company as an Operations Research Engineer, he joined the faculty of Rice University, from which he moved to Syracuse in 1967. His research interests centre around exploiting logical methods on the computer. In 1963 he devised the 'resolution principle', an automatic deduction technique based on the 'unification' pattern-matching algorithm. 'Resolution' has been applied by Colmerauer and Kowalski to become what is now known as 'logic programming'.

\* Tea and coffee will be provided at 15.30 hrs.

### Wednesday 6 May

#### EP SEMINAR

at 16.30 hrs – Council Chamber

*Please note change of day and place!*

#### **A silicon strip vertex detector for the Mark II experiment at the SLC**

by Andreas S. SCHWARZ / SLAC

*The silicon strip vertex detector for the Mark II experiment at the SLC is described. The detector will consist of 36 silicon strip detector modules each consisting of a 512 strip silicon detector read out by four 128 channel NMOS VLSI circuits (Microplex) and a custom designed hybrid circuit containing power and line driver electronics. The design of a prototype module, a discussion of the overall layout of the vertex detector and the results of tests will be presented.*

## Jeudi 7 Mai

### PRESENTATION TECHNIQUE

de 09.00 à 12.00 h et de 14.00 à 16.00 h  
bât. 17, 1-007

*BERGER LAHR (D/CH) propose :*

- *démonstration de la commande de déplacement et de positionnement POSAB pour l'utilisation en combinaison avec les moteurs pas à pas 5-phases*
- démonstration de la commande KIP 500 en combinaison avec un module de déplacement linéaire entraîné par un moteur pas à pas 5-phases.*

Langue : français

Renseignements : M. Diraison / FI / 4585

## Jeudi 7 mai

### PRESENTATION TECHNIQUE

de 09.00 à 16.00 h  
bus parking PTT, près du bât. 63

*HÄWA (SCHWEIZ) AG, représentant Häwa (D), propose en exposition démonstration son programme mécanique électronique : coffrets, armoires, cellules, pupîtres, boîtiers à bornes et petits coffrets, enceintes spéciales, système 19", système mécano informatique 'consécutif' (agencement fonctionnel : des postes de programmation, des bancs électroniques, des postes de travail et de mesure, des systèmes modulaires 19"), coffrets en matière plastique, composants thermiques (ventilateurs, filtres, échangeurs de températures, corps de refroidissement, climatiseurs, etc.), racks, composants et accessoires de racks, outillage, caniveaux à câbles, modules de montage électriques et électroniques, automates programmables, horloges, compteurs horaires, relais, transformateurs de commande, etc.*

Langues : allemand, anglais, français

Renseignements : M. Diraison / FI / 4585

## Vendredi 8 mai

### PRESENTATION TECHNIQUE

de 09.00 à 15.00 h  
bus parking PTT, près du bât. 63

*ARBOR VENTIL + FITTING AG (CH/USA) propose en exposition démonstration son programme de représentation en raccords et vannes de précision pour le vide et la haute pression, étanche à l'hélium (fabrication : Swagelock, Whitey, Cajon, Sno-Trik, Nupro).*

Langues : allemand, anglais, français

Renseignements : M. Diraison / FI / 4585

## Friday 8 May

### MEETINGS ON

#### PARTICLE PHYSICS PHENOMENOLOGY

at 11.00 hrs – TH Conference Room

**Strangeness evolution in ultra-relativistic nucleon collisions**

by K. KAJANTIE / Helsinki

## Monday 11 May

### EF SEMINAR

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

**The NA31 experiment for the precision measurement of CP violation**

by H. BURKHARDT / Siegen University and CERN-EP

*NA31 aims in its ongoing analysis to measure  $\epsilon'/\epsilon$  to a precision of better than one permille. The talk will focus on a description of the detector and in particular on the liquid argon calorimeter and the performance actually achieved.*

## Wednesday 13 May

### PRESENTATION

at 09.00 hrs – DD Auditorium  
bldg 31, 3-005

**VAX Source Code Analyzer V1.0**

by Ward CLARK / Digital Equipment Corporation

## Mercredi 13 mai

### REUNION OUVERTE DU LEP

à 14.30 h – Amphithéâtre LEP  
bât. 30, 7e étage

**1. Annonces**

**2. Avancement des installations du LEP**

par G. BACHY / CERN-LEP

## Thursday 14 May

### CAS ACCELERATOR SEMINAR

at 14.00 hrs – Auditorium

**The crystal X-ray accelerator and related problems**

by T. TAJIMA / University of Texas at Austin

## Thursday 14 May

### CERN COLLOQUIUM

at 16.00 hrs – TH Conference Room

**Studies of radioactive fall-out in the 1950s**

by R. FLEISCHMANN / University of Erlangen

## Friday 15 May

### PRESENTATION

at 10.00 hrs – DD Auditorium  
bldg 31, 3-005

**The enhanced IBM 6150 RISC workstation and connectivity**

by Patricia CERICOLA / 6150 Development Team, IBM Austin Laboratory

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Tél. 50 23 32 45.

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

### Mardi 5 mai

#### LES SCIENCES AUJOURD'HUI

à 20.00 h précises – Amphithéâtre  
(jusqu'à environ 22.00 h)  
par R. CARRERAS

*Rafel Carreras, responsable du programme d'Enseignement général au CERN, commentera et expliquera un choix d'articles parus récemment dans des revues scientifiques, et qui couvrent l'ensemble des sciences physi-*

### Mercredi 6 mai

#### LAPP SEMINAR

à 10.45 h – Amphithéâtre du LAPP, Annecy

**Techniques nouvelles d'accélération pour  
collisionneurs linéaires électron-positon**

par J. PERREZ-Y-JORBA / LAL, Orsay

*Pour tous renseignements, s'adresser à Guy COIGNET/  
LAPP.*

*ques et biologiques ainsi que certains aspects des relations science-société. Une attention particulière est portée au langage et aux notions utilisés afin que les explications et les commentaires soient accessibles aux personnes n'ayant pas de formation scientifique.*

Entrée libre

(Please note that the lecture will be given in FRENCH)

Service des Relations Publiques  
Tél. 2722

EUROPEAN LABORATORY FOR PARTICLE PHYSICS  
1211 Geneva 23, Switzerland.

## INFORMATICS TUTORIAL 1987-1

### Announcement

**Lecturer:** ROBERT D. RUSSELL, Computer Science Department,  
University of New Hampshire, Durham, NH. (U.S.A.)

**Subject:** **Compiling techniques**

**Time:** Monday to Friday June 1 to 5 1987 from 9:00 to 12:00 and 14:00 to 17:00.

**Presentation:** A large number of techniques and tools have been developed for translating one language into another. The most common example of this is a high-level language compiler, such as a Fortran compiler, which translates a Fortran source program into an object module in the machine language of the target machine. Other examples of the use of translation techniques can be found in command language decoders, data base query interfaces, interactive interpreters, macro processors and, perhaps surprisingly, text editors and formatters. The power, generality and ease of use of these translation techniques makes them an essential component in many software systems, especially those involving non-trivial user interfaces.