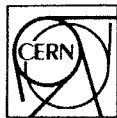
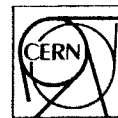
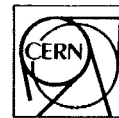


bulletin



WEEK MONDAY 21 JANUARY

n° 4/91

SEMAINE DU LUNDI 21 JANVIER

SEMINARS SEMINAIRES

Monday 21 January

PPE SEMINAR

at 16.30 hrs – Auditorium

L3 results on QCD

by Dieter LINNHOFER

Results on QCD from the L3 collaboration will be presented. Main emphasis will be given to the determination of the strong coupling constant α_s , by two different methods. Other topics are a test of the non abelian structure of QCD (gluon self coupling) and a comparison of inclusive particle spectra to the predictions of perturbative QCD.

Mardi 22 janvier

PRESENTATION TECHNIQUE

de 09.00 à 12.00 h – bât. 17, salle 1-007

Indusoft (F) et Excel Services SA (CH) présentent leurs possibilités d'études et de conceptions de logiciels en informatique industrielle et scientifique (automatisme, imagerie de synthèse, infographie, CAO, etc.)

Langue : français

Renseignements : M. Diraison / FI / 4585

Tuesday 22 January

SPS AND LEAR EXPERIMENTS COMMITTEE

Open session

Tuesday 22 January

at 09.00 hrs - Auditorium

1. Opening remarks from the Director-General.
2. Status Report and Beam Time Request from WA 79/CHARM II (SPSC 90-43/M458; A. Rozanov).
3. A New Search for ν_μ - ν_τ Oscillations (Bari - Brussels - CERN - Ferrara - Louvain - Moscow - Japan Emulsion Group - Korea Emulsion Group - Naples - Rome - Salerno - YEFAM (Ankara) - Zeuthen-Berlin; SPSC 90-42/P254; J. Panman).

4. Study of Baryon and Antibaryon Spectra in Sulphur-Sulphur Interactions at 200 GeV/c per Nucleon (Athens - Bari - Bergen - Birmingham - CERN - Collège de France - Madrid CIEMAT - Padova - Serpukhov - Trieste; SPSLC 91-5/P257; E. Quercigh).

5. Study of Exotic Trapping of Antiprotons in Liquid/Gas Helium (CERN - Garching - Tokyo [Institute for Nuclear Study and Department of Physics]; SPSLC 91-1/P255; T. Yamazaki).

6. Status Report and Beam Time Request from NA 44 (Focussing Spectrometer for One and Two Particles; SPSLC 91-7/M460; H. Bøggild).

7. Status Report and Beam Time Request from NA 45 (Study of Electron Pair Production in Hadron and Nucleon Collisions; SPSC 90-41/M457; H. Specht).

8. Status Report from NA 34 / 3 (Measurement of Low Mass Muon Pairs in Sulphur-Nucleon Collisions with an Optimized HELIOS Muon Spectrometer; G.W. London).

9. Status Report from NA 34 / 1 (Lepton Production; W. Willis).

10. Beauty Trigger for Hadron Collider (SPSC 90-36/M455; P. Schlein).

Closed session

Tuesday 22 January at 16.00 hrs, continued on Wednesday 23 January at 09.00 hrs – 6th floor Conference Room, Administration Building

Tuesday 22 January

TIS SEMINAR

at 14.30 hrs – PE Auditorium (Techn. Training) bldg 593, room 11

Emergency planning

by C.W. NUTTALL / Leader of the Chemical and Gas Section TIS, CFM Group

As the scale of industrial activity has increased over the last 30 years, so the concern for the effects of accidents on the areas outside the site boundary has increased. This presentation summarises a conference held in October 1990 in London, to outline the different aspects of planning for emergencies by the different services concerned : fire, police, ambulance and local authorities.

Wednesday 23 January

CN TECHNICAL PRESENTATION

at 10.00 hrs – CN Auditorium
bldg 31/3-005

Fujitsu computers and peripherals

by George MELANSON et al. / Fujitsu, France

Fujitsu's offerings of supercomputers, general purpose computers operating under UNIX, FORTRAN, UNITREE and application environments will be presented.

10.00-10.15 *Presentation of the Fujitsu team*

by MM. Tokuda and Tamura

10.15-10.45 *Fujitsu : general overview*

by G. Melanson

10.45-11.10 *Fujitsu mainframes (M-1800)*

by J. Thirouard

11.10-12.30 *Vector Processor hardware*

by J. Thirouard & D. Ceugniet

Lunch break

14.00-15.00 *UXP/M overview by M. Kenne*

15.00-15.20 *Unitree & software applications*
by M. Kenne

15.20-16.00 *Fortran 77 EX by D. Ceugniet*

Language : English

Organizer : Sverre Jarp / CN / sverre@cernvm

Jeudi 24 janvier

PRESENTATION TECHNIQUE

de 09.00 à 12.00 h – Amphithéâtre CN
bât. 31, 3-005

Euro-Diesel SA (B) présente leur système d'alimentation sans coupure UPS NO-BREAK KS : filtration des harmoniques existantes – insensibilité à toute perturbation amont ou aval – gain de place et installation dans un local normal – garantie absolue de démarrage – système simple – fourniture automatique de KVAR modulé suivant la commande – une seule machine pour deux services : No-Break + Stand-By – durée du secours illimité – fonctionnement en parallèle et en parallèle redondant – rendement en présence réseau : 94 à 97%.

Langue : français

Renseignements : M. Diraison / FI / 4585

Thursday 24 January

COMPUTER SEMINAR

at 16.00 hrs – Auditorium*

Symmetry-breaking as memory – models and experiments

by Daniel AMIT / Hebrew University,
Jerusalem

The main achievements of the theory which identifies memory as collective breaking of ergodicity (attractor dynamics) will be reviewed. They will be

then compared with experiment to establish whether the phenomenon exists in performing mammals, and whether there is a basis for a quantitative comparison.

Daniel Amit received his PhD in physics from Brandeis University in 1966 and went on to work in low temperature physics and then critical phenomena. Since 1984 he has been working on neural networks. He is the author of two books, one on field theory and critical phenomena (1978), and one on brain function and neural networks (1989). He is past president of the Israel Physical Society, and is the founder-editor of the journal Network, devoted to neural networks.

* Tea & coffee will be served at 15.30 hrs.

Friday 25 January

MEETING ON

PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

Chiral Lagrangians as a tool to probe the symmetry breaking sector of the SM at LEP

by Domenec ESPRIU / CERN

An effective $SU(2)_L \times U(1)_Y$ invariant chiral Lagrangian can accommodate any symmetry breaking scheme in the Standard Model. It is shown that all process-independent quantities relevant to LEP precision measurements ($\Delta\rho$, $\Delta\kappa$ and Δr) depend only on one coefficient of the weak chiral Lagrangian, taking different values depending on the precise symmetry breaking scheme. We remove any ambiguity due to the use of an effective theory by a careful choice of observables and make definite predictions that can be tested in the foreseeable future. Our analysis complements nicely that of longitudinal W and Z scattering.

Monday 28 January &

Tuesday 29 January

LINAC-RING-COLLIDER WORKSHOP

The workshop starts on Monday with a talk by R. Rossmannith (CEBAF) on Linac-Ring-Collider B-Factory studies at CEBAF at 10.00 hrs in the PS Auditorium (bldg 6, 2-024).

Monday afternoon and Tuesday morning are for discussion groups. The workshop ends on Tuesday afternoon with summary talks.

More details in next week's Bulletin

Information :

P. Grosse Wiesmann / 3529 / PGW@CERNVM

C.D. Johnson / 6640 / CDJ@CERNVM

D. Möhl / 3035 / MOEHL@CERNVM

Monday 28 January

OS-9 Users Meeting

at 15.30 hrs – CN Auditorium
bldg 31, 3rd floor

New Developments

1. *LanceDrv 1.1 – Ethernet Driver* by Doug Kemp
2. *Internet Support Package 1.3* by Doug Kemp
3. *BOOTP – booting across a network*
by Paul Langley
4. *Network File System 1.0/1.1* by Julian Blake
5. *Gnu C Compiler* by Julian Blake
6. *OS-9 2.4* by Doug Kemp

Monday 28 January

PPE SEMINAR

at 16.30 hrs – Auditorium

Particle identification with the OPAL jet chamber

by M. HAUSCHILD / CERN

The central jet chamber of the OPAL detector is designed to measure space points of tracks in a magnetic field and to identify charged particles by multiple sampling of their energy loss dE/dx in the chamber gas. A gas mixture of Argon/Methane/Iso-Butane (88.2/9.8/2.0) is used at a pressure of 4 bar. With up to 159 samples per track a dE/dx resolution of 3 - 4 % is obtained both for single isolated tracks and for tracks within multi hadronic events. The ability of good particle separation opens a wide field of applications in physics analysis : for example the identification of electrons from semileptonic heavy quark decays to tag $Z^0 \rightarrow b\bar{b}$ events. The calibration procedure including corrections for systematic effects, and the dE/dx performance are discussed. The particle identification power for several applications is demonstrated.

Tuesday 29 January

CN SEMINAR

at 14.00 hrs* – CN Auditorium
bldg 31, 3-005

Moving toward a distributed computing environment 'or Heterogeneity is a Feature'

by Donald C. 'Smokey' WALLACE / Vice President, Network Products Division Oracle Corporation

The transition to distributed network computing is now on everyone's agenda, not just those of the workstation vendors. Many factors contribute to this shift, some based upon significant changes in the basic technology we use to build computer systems, others based upon basic business needs and still others based upon market vs. technology realities.

I believe;

- The computer industry is undergoing a fundamental and dramatic change.
- Every significant computing trend points toward or assumes network computing
- Distributed applications and data will drive the computer industry in the future
- The tools to build and manage these large systems are not available today

This talk will focus on the significant technological, industry and market changes that are fueling a basic paradigm shift in the way we build and use computer systems. In addition, I will present an approach to building products that directly addresses the problems inherent in basic distributed and heterogeneous nature of these systems.

* Note the unusual day and time

TRAINING AND EDUCATION ENSEIGNEMENT

ENSEIGNEMENT GENERAL

Tél. 5811 ou 2844 (le matin)

Jeudi 24 janvier

de 13.00 h à 13.30 h – Amphithéâtre
Science pour tous
par R. CARRERAS

ACADEMIC TRAINING

Tél. 2844-3674

21, 28 January

4, 11, 18, 25 February

4, 11 March

LECTURES FOR POSTGRADUATE STUDENTS

11.00 to 12.00 hrs – Auditorium

Introduction to accelerators

by E.J.N. WILSON / CERN-PS

Lecture of 21.1 : Differential equations
(mathematical introduction to the course)

Lectures 2 & 3