

on 13 December. It was hoped that TREF would also be in a position to examine the remainder of Chapter I and Chapter II (Section 1) on that occasion.

The Management Board took note of a paper from the Directorate concerning the approach to be adopted for the 1995 MOAS exercise. Dr W. Middelkoop, announced that the Personnel Division would shortly be sending out the appraisal forms to the divisions following the earlier decision² to allow annual interviews to begin before the statutory period in a "top-down" sequence and with the consent of the staff concerned.

The Board was informed of the Director-General's discussions with the Director-General of UNESCO, Dr F. Mayor, and of the setting-up at CERN of an EU Task Force³ to coordinate contacts with the European Union following the signing of the Co-operation Agreement with the European Commission.

¹ As reported in last week's Bulletin (No. 47/94)

² As reported in Weekly Bulletin No. 39/94

³ Membership as at 17.11.94: P.-G. Innocenti (Chairman), O. Barbat, R. F. Heyn and M. Jacob (*Ex-officio* members: H. F. Hoffmann and C. Rubbia).

(section 1) et VII, que le TREF examinera à sa prochaine réunion, le 13 décembre. On espère que le TREF sera aussi en mesure d'examiner à cette occasion le reste du chapitre I et le chapitre II (section 1).

Le Comité de management a pris note d'un document du Directoire concernant la méthode à adopter pour l'exercice MOAS en 1995. M. W. Middelkoop a annoncé que la Division du personnel enverra prochainement aux divisions les formulaires d'évaluation, en application de la décision antérieure² d'autoriser le démarrage des entretiens annuels, du haut en bas de la hiérarchie, avant la période statutaire et avec l'accord du personnel concerné.

Le Comité a été informé des discussions entre le Directeur général et le Directeur général de l'UNESCO, M. F. Mayor, et de la création au CERN d'un Groupe d'étude³ chargé de coordonner les contacts avec l'Union européenne après la signature de l'accord de coopération avec la Commission européenne.

¹ Voir le précédent Bulletin (No. 47/94)

² Voir Bulletin No. 39/94

³ Composition au 17.11.94: P.-G. Innocenti (Président), O. Barbat, R. F. Heyn et M. Jacob (Membres *ès qualités*: H. F. Hoffmann et C. Rubbia).

SEMINARS SEMINAIRES

Monday 28 November

PRESENTATION

09.30 to 12.00 & 13.30 to 16.30 hrs – CN Auditorium
bldg 31/3-005

IDL Interactive Data Language

by Jürgen Schwarz, Project manager, Creaso GmbH.

Scientists, analysts and researchers can visualise scientific or technical data using IDL (Interactive Data Language) — the single, integrated environment for data analysis and visualisation. Optimised for today's workstations, MAC's and PC's, IDL lets you perform interactive analysis on virtually all types of scientific and engineering data. IDL also includes device independent Motif, OpenLook and Microsoft Windows widgets for fully portable end-user applications. IDL is of special interest to people who have large amounts of data to reduce, analyse and understand, using today's most popular visualisation technique. The afternoon session will be devoted to a WorkShop using workstations and PCs with data supplied by users. If you have any data that you would like to see on this application you are invited bring it along with you.

Organiser : S. Cannon / CN / 5036

Monday 28 November

AT SEMINAR

at 15.30 hrs – AT Auditorium
bldg 30, 7th floor

Radiation effects on insulators for superconducting fusion magnets

by Harald WEBER / Atomic Institute of the Austrian Universities

Mechanical properties of insulators

Influence of type of radiation

Calculation of deposited energy

Influence of irradiation temperature

First results on metal-insulator interfaces

Monday 28 November

PPE SEMINAR

at 16.30 hrs – Auditorium

Tau physics with the OPAL detector

by Achim STAHL / Bonn University

An overview of results in tau physics achieved with the OPAL detector will be given. Topics from electroweak physics, QCD and physics beyond the standard model will be included.

Tuesday 29 November
LARGE HADRON COLLIDER COMMITTEE

Tuesday 29 November

Open Session

Workshop on further physics topics

at 09.00 hrs – Auditorium

Provisional agenda:

- 9.00–9.30 Diffractive scattering at the LHC in the light of HERA results (G. Ingelman)
9.40–10.10 Hard diffraction at UA8 and possibilities with LHC-B (P. Schlein)
10.20–10.50 Total cross-section, elastic scattering and diffraction dissociation at the LHC (G. Matthiae)
11.00–11.30 *Coffee*
11.30–12.00 Hard processes in heavy ion collisions at the LHC (H. Satz)
12.10–12.40 Dimuons, $\gamma\gamma$ collisions and large cross-section processes with ALICE (K. Eggert)

Open session (continued)

Tuesday 29 November

at 14.15 hrs – Auditorium

- 14.15–14.45 Spin physics with the LHC (J. Soffer)
14.55–15.25 Experiments with polarized jet target (to be arranged)
15.35–16.00 *Coffee*
16.00–16.20 Neutrino beams from the LHC (A. Morsch)
16.30–17.15 Neutrino physics at the LHC (J. Panman)
17.30–17.55 Search for unstable neutrino-like heavy objects at the LHC (F. Vanucci)

Open session (continued)

Wednesday 30 November

at 09.00 hrs – Auditorium

- 9.00–9.30 Very high precision tests of the electroweak theory (P. Fisher)
9.40–10.10 Possible multiple W/Z/H production at the LHC (A. Ringwald)
10.20–10.50 *Coffee*
10.50–11.20 Search for monopoles at the LHC (G. Giacomelli)
11.30–12.00 Ideas for unconventional experiments at the LHC (J. D. Bjorken)

Tuesday 29 November

PRESENTATION

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

VMEbus and IndustryPack Products

by Actis Computers / Ecrin Automatismes

This presentation will focus on:

- 1) VMEbus products for Input/Output applications:
 - Digital and analog I/O modules (VMIC)
 - High-performance graphic and audio control (VIGRA)
 - Communication modules (SBE), and processor modules (Actis)
- 2) IndustryPack products:
 - Transition modules and the intelligent I/O channel concept (ACTIS)

Information on G64 and industrial PCs will conclude the presentation.

Organiser : S. Cannon / CN / 5036

Wednesday 30 November

TECHNICAL PRESENTATION

at 09.30 hrs – CN Amphitheatre
bldg 31/3-005

High-Performance Scalable UNIX Database Servers.

by Dansk Data Elektronik (DDE) A/S, Denmark.

DDE is a Danish company with extensive experience in building, maintaining and tuning large UNIX networks. DDE is manufacturing its own multi-CPU, Scalable UNIX server running UNIX SVR4.2 MP on RISC microprocessors from MIPS Technology Inc. This server set the world speed record for multi-CPU UNIX servers at the CeBIT fair in Hannover in 1993.

In addition, DDE has developed its own applications for new spaper production, libraries, electronic design automation, industrial process control and office automation. DDE has more than 10 years of experience in developing, tuning, supporting and troubleshooting large Oracle databases.

Technical service, maintenance, facility management, training and consultancy is offered at DDE or on-site. The DDE references include many large installations world-wide, some of which are the Barcelona Stock Exchange in Spain, the VUM publishing group in Belgium, the Nelson Evening Mail in New Zealand and Ericsson Electronics in Sweden.

Organiser : S. Cannon / CN / 5036

Wednesday 30 November

PS SEMINAR

at 11.00 hrs – PS Auditorium
bldg 6

High gradient particle acceleration using a beat wave in a plasma

by D. BERNARD & Ph. MINE / Ecole Polytechnique de Palaiseau

Particle acceleration in plasmas has raised a considerable interest in a recent past because very high electric fields could be attained without electrical breakdown; few experiments however confirmed the feasibility of the method. At the Ecole Polytechnique of Palaiseau, a very reproducible acceleration of particles in a plasma has been observed. Electrons were accelerated from 3 to 3.7 MeV using the beat wave principle in a field of 0.5 GV/m. This experiment is the only one to use a Neodymium laser and it will be compared with the other techniques tested in various laboratories.

Wednesday 30 November

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room
bldg 4

Fermion masses in superstring theory

by I. ANTONIADIS / Ecole Polytechnique, Palaiseau

A model-independent discussion of fermion masses in four-dimensional heterotic superstring theories will be presented. Tree-level contributions and quantum corrections will be discussed, including one-loop threshold effects and masses generated as a result of non-perturbative supersymmetry breaking. Particular emphasis will be given to the effective mu

term in the low-energy Lagrangian which is generically induced from superstring models.

Wednesday 30 November

TECHNICAL PRESENTATION

at 14.30 hrs - bldg 32/2-B16

Asynchronous transfer mode testing: Tekelec expands ATM test horizons with the TE 875 ATM simulator / analyzer

by P Langlois, Tekelec Telecom / Themis Computer Grenoble / Paris

As the first ATM experimentations arrive, Tekelec Telecom introduces the TE 875 ATM SIMULATOR/ANALYZER.

The TE 875 is based on a modular, flexible and evolutive architecture. It includes a generator/analyzer controlled and set up by a PC. The PC provides a very user's friendly man machine interface and memorizes measurement results on hard disk for post analysis if required. The TE 875 provides STM-1 electrical and optical interfaces and PDH interfaces at 34 and 140 Mbit/s following new ITU-T framing (G.804 and G.832). Simulations and measurements are performed in real time.

The TE 875 is adapted for the test of ATM network equipment: it checks the different functions of the physical and ATM layer such as transmission testing, cell delineation, HEC correction/detection mechanism, cell multiplexing and routing. F4 OAM flow is processed as well.

Information: M. Diraison / FI-A / 4585, F. Szoncsó / PPE / 6592 - 2227

Thursday 1 December

PRESENTATION

at 09.00 hrs - CN Auditorium

bldg 31/3-005

OSF/1 Presentation

by Harald VON VELLENBERG / senior technology consultant,, Digital Equipment Zurich

Dr Von Vollenberg will discuss the following points about OSF/1:

OSF/1 foundation and evolution MACH 2.5, 3.0, evolution into microkernel

Evolution from DEC OSF/1 V1.3 to V2.1 and now V3.0:

- New functionality's of the operating system
- Threads, Real-time Features
- LSM / AdvFS / ASE

Interest of the 64 bits architecture for researchers:

- Large Files, File Systems
- Memory Mapped Files
- Large Address Spaces
- Increased Integer Precision

Hardware evolution:

- SMP imbedded in the OS and load balancing

New development directions:

- OSF/1 Clusters, Memory channel

The meeting will close with an open discussion on OSF.

Organiser : S. Cannon / CN / 5036

Friday 2 December

FIFTY-SIXTH PLENARY ECFA MEETING

at 10.00 hrs - Council Chamber

- 10.00 1. Approval of the Draft Minutes of the Fifty-fifth Plenary ECFA Meeting
2. Approval of the Draft Agenda
3. Chairman's Report
4. Status of LHC:
 - Machine (L.R. Evans)
 - Experiments (L. Foà)
 - Decision Process and Non-Member States (C.H. Llewellyn Smith)
- 13.00 Lunch
- 14.30 5. Fixed-Target Programme at HERA (B.H. Wiik)
6. Report on HEPCCC (G.E. Kalmus)
7. ICFA Matters (G. Flügge)
8. Any Other Business
- 17.00 End of meeting

Friday 2 December

ISOLDE SEMINAR

at 14.00 hrs - PE Conference Room

bldg 5/1-001

Experiments near the doubly-magic nucleus ^{100}Sn

by K. RYKACZEWSKI / University of Warsaw

Considerable progress has been made recently in the studies of nuclei near the doubly magic ^{100}Sn . Over twenty new isotopes including ^{100}Sn have been identified during the last year in the experiments based on on-line mass separation and on the projectile-fragment separator technique (GSI, GANIL, MSU). The predicted proton drip-line has been reached for indium and silver, and even crossed for antimony and rhodium isotopes. Among the highlights of the spectroscopic investigations are:

- the measurement of the $T_{1/2} (^{101}\text{Sn}) = 3 \pm 1$ s, and other studies of β -delayed proton emission near ^{100}Sn .
- ^{12}C cluster emission from the ground state of a new isotope ^{114}Ba
- the measurement of the Gamow-Teller strength function with a total absorption gamma spectrometer
- a new, global method for studies of μs -isomeric states

Friday 2 December

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs - TH Conference Room

Nucleon and pomeron structure functions

by A. CAPELLA / LP THE, Orsay

We present a common description of both the total photon-proton cross-section and the nucleon structure function in the region $0 \leq q^2 < 5 \text{ GeV}^2$ based on Regge theory. Extension at larger Q^2 is obtained using perturbative QCD evolution. A good description of the data (including low-x data at HERA) is achieved with a Pomeron of intercept 1.2. This Pomeron intercept is the same obtained in soft processes. Using Regge factorization, we relate Pomeron and nucleon structure functions and describe the diffractive data at HERA.

Monday 5 December

ISOLDE EXPERIMENTS COMMITTEE

Open session

at 14.00 hrs – Council Chamber.

1. Introductory remarks by the Chairman.
2. Progress report by the Isolde Technical Group Leader.
3. Isolde Coordinator's report.
4. Radioactive beam experiment at ISOLDE: Coulomb excitation and neutron transfer reactions of exotic nuclei; ISC 94-25/P68; D. Habs.
5. Measurement of the lifetime of the O state in ^{76}Kr ; ISC 94-22/P28 Add. 1; P. Sona.
6. Mass measurement of very short half-lived nuclei; ISC 94-26/P54 Add. 2; M. de St Simon.
7. Use of radioactive ion beams for biomedical research; ISC 94-13/P42 Add.1, P48 Add.1; G.J. Beyer.

Closed session

after the Open Session, 6th Floor Conference Room, Main Building, continuing on Tuesday 6 December from 9.30 h, if necessary.

Mardi 6 décembre

PRESENTATION TECHNIQUE

de 10.00–12.00 hrs, 14.00–17.00 hrs – Amphithéâtre AT
Bat. 30/7ème étage

CIRCUITS PROGRAMMABLES ALTERA

J. RENAUX (TEKELEC AIRTRONIC) Français

Tuesday 6 December

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Status Report on the Energy Amplifier

by C. RUBBIA / CERN-AT

Wednesday 7 December

at 14.00 hrs – Auditorium

Symposium in honour of Ugo Amaldi's 60th birthday

Friday 9 December

LEP EXPERIMENTS COMMITTEE

Open session

at 08.30 hrs – Auditorium

Closed session

at 14.00 hrs – 6th floor Conference Room

Friday 9 December

PRESENTATION

at 9.00 hrs – AT Auditorium

bdg 30/7th floor

NATIONAL INSTR'S US/CH - LabVIEW and the Power
Macintosh.

FOR INFORMATION

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Mercredi 7 décembre

SEMINAIRE DE PHYSIQUE CORPUSCULAIRE

17.00 – Auditoire Stuckelberg

Resultats recents de Crystal Barrel: spectroscopie, glueballs et Z'

par Dr Michael Doser, CERN

L'expérience de Crystal Barrel a LEAR étudie la spectroscopie des mésons en observant l'annihilation proton-antiproton à l'arrêt et en vol. Un des objectifs de l'expérience est une clarification de la situation des résonances comprises entre 1 et 2 GeV (scalaires, tenseurs, ...), et la recherche d'états incompatibles avec le modèle de quarks. L'observation de nouvelles résonances scalaires par Crystal Barrel a considérablement modifié la situation expérimentale; un état en particulier ($f_0(1500)$) est un des meilleurs candidats pour être un glueball.

En plus de la spectroscopie, Crystal Barrel peut aussi contribuer à tester le modèle standard. Les derniers résultats de Crystal Barrel éliminant d'éventuelles extensions permettant un Z' léger seront également présentés.

EDUCATION SERVICES EDUCATIFS

ENSEIGNEMENT GÉNÉRAL

Tél. 5811

Jeudi 1er décembre

à 13.00 h – Amphithéâtre

Science pour tous

par Rafel CARRERAS