



CONSEIL D'ADMINISTRATION DE LA CAISSE DE PENSIONS

GOVERNING BOARD OF THE PENSION FUND

La modification No 8 aux Statuts et Règlements de la Caisse de pensions, relative aux sommes fixes et allocations modifiées à la date du 1.1.1992, peut être obtenue auprès des secrétariats de division ou, pour les pensionnés, directement auprès de l'Administration de la Caisse (tél. 767 27 38).

Amendment No. 8 to the Rules and Regulations of the Pension Fund relating to fixed sums and allowances modified as from 1.1.1992 can be obtained from Divisional secretariats or, by pensioners, directly from the Administration of the Fund (tel. 767 27 38).

SEMINARS SEMINAIRES

Monday 10 February

PRESENTATION

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

**SILICON GRAPHICS' strategy for leading
scientific research**

by Forest Baskett / Vice-President of R&D at
Silicon Graphics &
Bernard Haerri / Brach Manager of SGI Suisse
Romande

With the arrival of systems based around the R4000 CPU technology new levels of data processing have become available. Silicon Graphics will present its vision of computing this 64-bit architecture makes possible. Different implementations of future R4000 based systems will be reviewed, starting from today's newly announced systems. Topics such as Multimedia, Scientific Visualization, Multiprocessing and High Speed

Networking (HiPPI) will be covered.

10.00 Introduction

- Silicon Graphics Environment and demonstration
EXPLORER, SHOWCASE)
- Multimedia a Scientific Visualization
- R4000 Architecture
- 'From Single CPU to Multiprocessing'
- Very high speed links: 'From Backplanes to
distributed systems'

12.00 End

Forest Baskett has a PhD in Computer Science. He is internationally recognized for his work on RISC based computer systems.

Bernard Haerri is Brach Manager of SGI Suisse Romande.

Information : Mme Marie Ligier (021) 25 94 12

Monday 10 February

AC SEMINAR

at 11.00 hrs – AT Auditorium
bldg 30/7th floor

Summary of the Second Workshop on LEP Performance

by John H. POOLE / CERN-SL

From 19 to 25 January some 80 participants met in Chamonix to review the performance of LEP and to propose improvements. The talk will give an overview of the issues addressed and outline the conclusions from the workshop.

Tuesday 11 February

PRESENTATION

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

LOG/iC from ISDATA : A logic synthesis tool for Programmable Logic Devices, Gate Arrays or Logic Cell Arrays

by Peter BAUER & Ralf REMME / ISDATA Applications Engineers

Since 1983 ISDATA (Germany) has produced advanced language-based software for PLD designs. From the same device independent description, LOG/iC can synthesis logic on PLDs or be a 'front end' for Gate Arrays and LCAs. Its flexible input device description includes: proprietary high level syntax, schematic circuit diagram entry, VHDL subsets and FSM flowcharts. It can also interactively partition large designs onto several PLDs, and has a PLD Data Base for automatic device selection, or on-line reference. This package run under PC DOS or UNIX operating systems, and at CERN it is available on the PC/NOVELL network.

09.00 LOG/iC Universal Design Compiler for PLDs, FPGAs and GAs. Overview of the inputs possibilities, simulator, optimizer and interface to other CAER systems.

10.15 Demonstration with examples

11.00 STATE/VIEW Graphic state machine editor

11.30 HINT, the VHDL compiler for LOG/iC

12.00–12.30 Discussion

14.00–16.00 Open sessions:

Time available for more discussion, presentation and examples

Information : R.-B. Flockhart, J.-M. Sainson / CN-CE

Tuesday 11 February

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Review of 17 keV neutrino experiments

by Douglas R.O. MORRISON / CERN

A review is made of all experiments searching for a heavy neutrino near 17 keV. In 1985 Simpson claimed the observation of a break in the spectrum of low energy betas from tritium – this result is discussed in terms of atomic effects and Beta

Environmental Fine Structure. In 1985-1987 several experiments found no effect and were criticised by Simpson – these criticisms are discussed. Recently the subject has been re-opened when several experiments have found positive evidence for a 17 keV neutrino. These experiments plus some finding no evidence, are reviewed and it is concluded that the balance of evidence is against the existence of a 17 keV neutrino.

* Coffee will be served at 16.00 hrs

Wednesday 12 February

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Quantum symmetry in quantum theory

by Gerhard MACK / Hamburg University

Quantum groups and their non-associative generalizations admit a perfectly conventional interpretation as symmetries in quantum theory. They are consistent with local braid relations of field operators which implement braid statistics in the same manner as local (anti)-commutation relations implement Bose/Fermi statistics. The existence of models shows their theoretical consistency.

Friday 14 February

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

Semi-leptonic and leptonic decay constants

by H.G. DOSCH / CERN

The results of a detailed QCD sum-rule analysis of semi-leptonic decay form factors is given, with special attention to the t -dependence. The $m_Q \rightarrow \infty$ limit is also performed in the sum rule approach for semi-leptonic form factors as well as for leptonic decay constants. Results are compared with experimental and other theoretical results.

Friday 14 February

PRESENTATION

at 14.00 hrs – CN Auditorium
bldg 31/3-005

FORESIGHT: Modelling and simulation toolset for real-time system development

by NuThena Systems, Sunnyvale Cal., USA & DAZIX, Huntsville, Ala., USA.

FORESIGHT provides an integrated set of graphics-based tools to quickly capture high-level system behavior, including hardware and software components, and validate the logical view of the application through behavior simulation. With Foresight, designers are given an effective environment for modelling, specifying system data flow connections as well as system behavior. Many of the real-time structured analysis (RTSA) concepts, such as hierarchical data/control flow diagrams, state machines, mini-specs, and data dictionary,

are fully supported. The product is written in C++, is compatible with the X Window system and UNIX industry standards, and has been used by a variety of companies in system design, instrumentation, telecommunication, aerospace, and process control. In July 1991 NuThena and DAZIX signed an original equipment manufacturer (OEM) agreement which does allow the integration of Foresight into DAZIX's AdvanSIM logic simulator used at CERN successfully for electronic design already since several years. Currently there are 19 Dazix workstations installed and supported at CERN.

14.00 NuThena and DAZIX collaboration

by Gennaro Goetschmann / Gen Manager DAZIX (CH)

14.15 Presentation of FORESIGHT from NuThena

by Bill Thompson / NuThena (USA)

14.30 Demo of NuThena on a Sparcstation

by Bill Thompson / NuThena (USA)

15.15 DAZIX News

by Tom Carlstedt-Duke / Techn.Director DAZIX (Europe)

16.00 Discussion.

Information : P. Baehler, A. Thys / CN-CE

Monday 17 February

PPE SEMINAR

at 16.30 hrs – Auditorium

A Silicon Microvertex Detector for Collider B Physics : design, construction and SPS collider test

by Mike Medinnis / UCLA

Hadron Colliders have considerable potential for the study of B-physics, but a dedicated B-physics experiment has yet to be installed at any Hadron Collider. The P238 Collaboration proposed such a device to the SPS Committee and was granted approval to test its microvertex detector design because of its potential application at the LHC. A 40,000 channel, planar geometry detector was installed in a Roman Pot and successfully operated at 3 mm distance from the beam in LSS5 during the Winter 1990 SPS Collider run. A description of the detector and test results will be presented.

Tuesday 18 February

LEP EXPERIMENTS COMMITTEE

Open session

at 09.00 hrs – Auditorium

- Report on the LEP Performance Workshop (S. Myers)
- LEP 200 (C. Wyss)
- Status of SLC and SLD (M. Breidenbach)
- Coffee Break
- Proposal for a VME based upgrade of the ALEPH readout system

Status Reports on the Experiments

- LEP 5 (Single Bremsstrahlung Monitor)
- LEP 6, MODAL
- Lunch Break
- L3
- ALEPH
- DELPHI
- OPAL

Closed session

Tuesday 18 February, Conference Room, 6th Floor, Admin. Building
to be continued on 19 February, same place.

Tuesday 18 February

PRESENTATION

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

VXibus Products and Software for Real-time Engineering

by National Instruments, Kinetic Systems Corporation (KSC) & Wind River Systems Europe

Information : C.R. Van Der Vlugt / CN / 3511

Tuesday 18 February

PRESENTATION

at 14.00 hrs – CN Auditorium
bldg 31/3-005

Storage Products for Workstations and PCs by TEKELEC (France)

by G. PARRA / Ingénieur Commercial, Tekelec, France

P. COUZINET / Responsable Archivage / Sauvegarde

Mr SKELTON / Manager of Application Engineering, NCR US &

Mr RYSHWAY / Marketing Manager, NCR Europe

Information : A. Silverman

Tuesday 18 February

TECHNICAL PRESENTATION

14.30–16.30 hrs – Technical Training Auditorium
bldg 593, room 11

Multimedia products and developments

Special presentation by Peter COPELAND / Founder and chairman of the Future Media Group (UK)

Information : M. Diraison / FI / 4585

Language : English

Tuesday 18 February

PRESENTATION

at 15.30 hrs – Council Chamber

High Performance Technical Computing from Digital and Cray

by Peter ROSS / HPTC Marketing Manager - Digital, Engineering

Steve ZAGAME / HPTC Marketing Manager - Digital, Europe

Jean-Pierre THERRE / Applications Marketing - Cray, Switzerland

Information : Tor Bothner / 7095 / beep 5555 / bothner@cernvax

Wednesday 19 February

PRESENTATION

at 10.00 hrs – Technical Training Auditorium
bldg 593, room 11

Evolution of Database Technology at Oracle

by John SPIERS / Oracle, UK

Wednesday 19 February

PS SEMINAR

at 11.00hrs – PS Auditorium

bldg 6, 2-024

Inertial confinement fusion with volume ignition

by H. HORA / CERN-PS

Thursday 20 February

PRESENTATION

at 14.30 hrs – AT Auditorium

bldg 30, 7th floor

High-performance storage solutions by maximum strategy

by Blake HOMAN / Maximum Strategy Inc.

Information : Les Robertson / CN

FOR/POUR INFORMATION

LAPP

Laboratoire d'Annecy de Physique des Particules

Chemin de Bellevue

BP 110

F – 74941 Annecy-le-Vieux

Tél. 50 23 32 45

Vendredi 14 février

LAPP SEMINAR

à 10.45 h – Amphithéâtre du LAPP

Comparaison de la masse inertielle du proton et de l'antiproton à l'aide d'un spectromètre de masse à radiofréquence

par M. de SAINT SIMON / CSNSM, Orsay

Le but de l'expérience est d'améliorer la précision de la vérification du théorème CPT qui prévoit l'égalité de la masse d'une particule et de son antiparticule, dans le cas des baryons: proton et antiproton. La précision visée est meilleure que $\Delta M/M = 1 \times 10^{-8}$. Un spectromètre de masse à radiofréquence basé sur le principe de L. G. Smith a été construit dans ce but, il permet de comparer les fréquences cyclotroniques et est caractérisé par un pouvoir de résolution $M/\Delta M = 1 \times 10^5$. La mesure est effectuée avec le faisceau d'antiprotons de basse énergie du LEAR (CERN) qui est décéléré par un quadrupole à radiofréquence jusqu'à 200 keV. Les différents aspects expérimentaux de cette mesure seront développés.

Information : Sylvie LEES-ROSIER, LAPP / ext. 328 / SROSIER@FRCPN11