

Dans le domaine de la politique de placement, la question de la proportion minimum de ses avoirs que la Caisse doit détenir en francs suisses a été débattue. Pour définir la limite que la Caisse doit respecter à cet égard, le Conseil d'administration estime logique d'inclure la créance à l'égard du CERN dans le total des avoirs, considérant que cette créance est libellée en francs suisses et qu'elle fait partie de la fortune au même titre que les autres valeurs détenues par la Caisse.

Mme E. Deluermoz et M. F. Cliff ont été nommés scrutateurs pour les prochaines élections au Conseil d'administration.

Le Conseil d'administration a pris connaissance d'une note du ministère des finances de la République de Grèce précisant que les pensions versées par des fondations gouvernementales ou privées ainsi que par des organisations internationales aux bénéficiaires de nationalité grecque ou étrangère qui sont domiciliés en Grèce sont exonérées d'impôt.

Il a pris note, avec regrets, du décès de deux bénéficiaires, MM. E. Besson et R. Truffaz.

SEMINARS SEMINAIRES

Monday 23 September

AC SEMINAR

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

Accelerator activities in India

by R. CHIDAMBARAM / Director, Bhabha Atomic Research Centre, Bombay

The accelerator facilities in India include the Variable Energy Cyclotron at Calcutta (VEC Centre); the Van-de-Graaf and tandem accelerators in Bombay (BARC) and the Pelletron accelerators in Bombay (BARC-TIFR), Delhi (Nuclear Science Centre) and Bhubaneswar (Institute of Physics); and the electron storage ring being built at Indore (Centre for Advanced Technology) as a VUV synchrotron radiation source. Future plans include a superconducting linac booster for the Bombay pelletron and a high energy electron storage ring as an X-ray synchrotron radiation source at Indore. Instrumentation development and research with these accelerators relate to various areas in nuclear physics, condensed matter physics and spectroscopy. International collaborations have involved CERN, Rutherford Appleton Laboratory, Institute of Nuclear Physics at Novosibirsk and some other Laboratories.

Monday 23 September

SPECIAL THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Presentation of Symbolic Computation with MAPLE

by Representatives of Waterloo Maple Software

was also discussed. In deciding the lower limits for the Fund's Swiss franc holdings, the Governing Board considers it logical to include CERN's credit in its total assets, since the debt is expressed in Swiss francs and forms part of the Fund's overall assets on the same footing as its other holdings.

Mrs. E. Duluermoz and Mr F. Cliff were appointed polling officers for the coming elections to the Board.

The Governing Board took note of a letter from the Minister of Finance of the Republic of Greece stating that pensions paid by governmental or private foundations or international organizations to beneficiaries of Greek or foreign nationality domiciled in Greece are exempt from taxes.

It also expressed its regret at the deaths of two beneficiaries, Messrs. E. Besson and R. Truffaz.

Maple is the main competitor to MATHEMATICA.

The presentation will cover the following items:

*Short company presentation COMSOL AG, by C. Bergstrom
Product overview: MAPLE, MATLAB and SIMULAB, by
C. Bergstrom*

Introduction of MAPLE V - a system for numerics, symbolics, graphics 2-D and 3-D, programming, document preparation. Details from all above-mentioned areas. History, references, trial installation at CERN. Questions and answer MAPLE.

Introduction of MATLAB - a system for numerical computation, analysis and including many toolboxes for Signal Processing, Optimization, Control System Analysis and Design, Robust-Control, Micro-Analysis and Synthesis, Splines, FFT, Linear Algebra, Matrix Manipulation, Simulation of Dynamical Systems, etc.

All boxes run under the LINPACK EISPACK-based famous product MATLAB including a powerful environment with programming facilities, graphics, import and export of user data, manipulation of very large amounts of data up to operating system limits. History, references, trial installation at CERN.

Questions.

Tuesday 24 September

PRESENTATION

at 10.30 hrs – CN Auditorium
bldg 31/3-005

The 'ImageCorder Plus'

Photo-Realistic Output for Workstations

by Michel DREIFUSS / Director F.S.C. SA, Geneva

The Focus Graphics ImageCoder Plus 4700 represents a major innovation in full colour hardcopy for the new generation of graphics workstations. Its unique autosync capability enables it to automatically interface to all commercially available graphics stations, and to be shared in a heterogeneous network of workstations. Its fast output - 8 seconds for a 35mm slide - provides high fidelity reproductions to users from any kind of graphics application: scientific visualisation, image processing, medical imaging, presentation graphics, animation. A wide range of film formats is possible including 35mm slides, 4x5 inch Polaroid prints, 8x10 inch overheads and prints, as well as 16 and 35mm cine for animation.

The ImageCoder will be demonstrated during the presentation.

Organizer : Chris Parkman / ECP, pmn@cernvm.cern.ch

Mercredi 25 septembre

PRESENTATION TECHNIQUE

09.00-12.00 h & 14.00-16.30 h – bât. 17/1-007

Ulrich Matter AG (CH/D) expose les nouveautés suivantes dans le domaine de la mesure et de la régulation:

- indicateurs numériques Dig/Digem
- barregraphes programmables Dinalog
- afficheurs de texte Digan
- régulateurs de température nouvelle génération Pantatherm, Pantamatic
- alimentations stabilisées programmables et à multicanaux SSP de 500 à 3000 W et MSP
- calibreurs à microprocesseur avec courbes thermocouples MU-T-MP, MU-T-ER
- tableaux de test D6
- mesureur de réseau (A, V, Cos ϕ , Hz, VA, VAR, W)
- enregistreur multicanaux.

Langues: allemand, français

Renseignements: M. Diraison / FI / 4585

Wednesday 25 September

PS SEMINAR

at 11.00 hrs – PS Auditorium

bldg 6, 2-024

Mixed ion beams near transition

by Steve HANCOCK / CERN-PS

The standard derivations of the energy and phase of the synchronous particle in a proton accelerator assume, as if by definition, that said synchronous particle lies on the central orbit of the machine. This is manifestly unjustified in the particular case of the acceleration near transition of a mixture of ions, when a small difference in charge-to-mass ratio can produce a large radial separation of the different ions species. The development of a simple derivation of the parameters of the synchronous particle that involves no such a priori constraint has yielded some surprises; not least, a belated explanation for an apparent anomaly encountered in 1987,

when a mixture of oxygen and sulphur ions was accelerated in the CERN Proton Synchrotron for the first time. These ideas are supported by measurements performed during a second ion run.

Wednesday 25 September

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

A template for quantum spin chain spectra

by V. RITTENBERG / University of Bonn

We consider (P/M) one-dimensional quantum spin chains described by N-state Hamiltonians ($N = P+M$), invariant under the action of the quantum superalgebra $U_q SU(P/M)$. These Hamiltonians have interesting properties. Several sectors of a given Hamiltonian (P/M) can have spectra identical to sectors of another Hamiltonian (P'/M'). This phenomenon occurs since the Hamiltonians are related to various quotients of the Hecke algebra. We also discuss applications of these Hamiltonians to condensed matter physics (commensurate-incommensurate phase transitions).

Wednesday 25 September

TECHNICAL PRESENTATION

14.00-16.00 hrs – Conference Room ECP

bldg 13/2-005

Gas Control Systeme AG (CH), will present:

- on demonstration, Gas-Analyser, portable: Gas Scout, Gas Leader, Cub 8600 from Sieger / Zellweger; TLD-1 chem key from MDA / Zellweger (CH); Gas check from Ion (UK)
- information only, Gas-Alarm systems: Modell 5700, Gas detectors 910, Transmitter 1053, Gas sensors 911 from Sieger / Zellweger (CH)

Languages: English, German

Information: M. Diraison / FI / 4585

Friday 27 September*

COMPUTING SEMINAR

at 14.00 hrs* – PS Auditorium

bldg. 6/2-024 *

LCL, a Larch language for specifying C program interfaces

by James J. HORNING / Digital Equipment Corporation's Systems Research Center, Palo Alto

The Larch Project at DEC/SRC and MIT is developing languages, tools, and techniques to aid in the productive application of formal specification to software design, implementation, integration, and maintenance. A Larch interface specification provides information that is needed both to write client programs and to write acceptable implementations. It is a precise description of the interface that a program module provides to clients, and is written in a

Larch interface language that depends on the programming language. It relies on definitions from an auxiliary specification, written in the Larch Shared Language, which is independent of any programming language. A new member of the Larch family is LCL, a language for specifying interfaces implemented in, and/or called from, C. Our emphasis has been on specifications for documentation, rather than specifications for formal verification, but we plan to augment our toolset with an LCLint that will use the extra information in specifications to report more code anomalies than a standard lint can. The language and toolset now seem to be ready for use outside the project, and we have recruited a few pioneers to test its utility.

Organizer : N. Cremel / CN

* Please note unusual day, time & place

Friday 27 September

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

**Reduction of QED uncertainties in luminosity
and Yennie-Frautschi-Suura exponentiation**

by S. JADACH / CERN

I would like to report on the several-month successful effort of the Cracow-Knoxville group to reduce the QED uncertainty in the LEP/SLC luminosity measurement from about 1% to the 0.25% level. The most important part of the calculation is embodied in the recently released BHLUMI 2.0x Monte Carlo multiphoton event generator. I shall also briefly discuss YFS exponentiation, its advantages and disadvantages, and its present applications to processes other than the small-angle Bhabha process.

Mardi 1er octobre

PRESENTATION

09.30–12.00 h – Amphithéâtre CN

bât. 31/3-005

**Les réseaux logiques programmables (FPGA)
d'Actel**

par Andy BIDDLE / ACTEL European Technical Manager
(GB) & Pascal FERNANDEZ, Société SCAIB (F)

Responsable : J.-M. Sainson / CN

Mardi 1er octobre

PRESENTATION TECHNIQUE

14.00–17.00 h – bât. 865/2–A04

Tekelec Airtronic (F), spécialiste dans les périphériques informatiques standards et spécifiques

Langue : français

Renseignements : M. Diraison / FI / 4585

Vendredi 4 octobre

PRESENTATION TECHNIQUE

08.00–16.00 h – Hydrosystème SA, 107, route du
Nant d'Avril, Meyrin

Hultegger & Cie S.A. (CH), technique de soudage et découpage, propose une démonstration de machines et matériel de soudage dans les locaux de Hydrosystème S. A. / Meyrin.

Langues: allemand, anglais, français

Renseignements: M. Diraison / FI / 4585

FOR INFORMATION / POUR INFORMATION

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27 septembre

SEMINAIRE LAPP

à 10.45 h – Amphithéâtre LAPP

Projet d'expérience EAGLE

par D. FROIDEVAUX / CERN

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