

pensions than to that of salaries, and if different indexation is applied then the future pensioners will be the ones who eventually pay the price. Therefore, while taking the view that pensioners' purchasing power must be maintained, the Governing Board proposes that equal treatment of pensioners and active staff vis-à-vis inflation must be ensured. At the Governing Board's request, the actuary had also made a special additional study of the total cost of all early departures, i.e. before the age of 65, taken between the beginning of 1988 and the end of 1994, including those within the framework of the various negotiated departure programmes. Given the absence of pension reduction factors between 60 and 65 for the great majority of staff members, this cost amounts to some 128 MCHF, compared to the 76 MCHF compensatory payments made by the Organization to the Fund.

Faced with all these facts, the long-term effect of which will be to worsen the position of the Fund, the Governing Board believes its duty, on the basis of the actuary's conclusions, is to make a number of recommendations to the Finance Committee and the Council with a view to warning those bodies of the consequences of their political choices.

The Governing Board was informed of case of disability. It took note of the renewal for one year, starting on 1 January 1996, of the terms of office of Dr W.C. Middelkoop and Mr A.J. Naudi as the Governing Board members appointed by the Director-General, and proposed renewing the term of office of Dr W.C. Middelkoop as Vice-Chairman for the same period. Finally, the Governing Board noted the acquisition of the office block in Neuilly to which it had given its agreement in principle at its previous meeting, as well as the movable asset management results at the end of September, presented by the Administrator.

SEMINARS SEMINAIRES

Monday 11 December

DETECTOR SEMINAR

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

The multi-gap RPC :

a new type of Resistive Plate Chamber

by Crispin WILLIAMS / CERN-PPE

In a comparison between a wide gap RPC (5-8 mm gas gap) and a narrow gap RPC, we find that we can operate the wide gap with a lower induced charge. This leads to a higher rate capability and lower power dissipated in the gas. However it is easier to get good timing with the narrow gap RPC. The Multi-gap RPC combines the best of both types of RPC offering excellent timing and also a high rate capability. In addition this type of chamber alleviates some construction problems and operates with a very low dark current.

Monday 11 December

PPE SEMINAR

at 16.30 hrs* – Auditorium

Measurement of $R_b = \Gamma_{bb\bar{b}} / \Gamma_{had}$ with
the DELPHI detector at LEP

by Chiara MARIOTTI / INFN -Sanità, Roma

The partial decay width of the Z to $bb\bar{b}$ quark pairs has been measured by the DELPHI detector. Different methods to identify b-quarks were performed by using tracks with large impact parameters to the primary vertex or by using leptons with high transverse momentum relative to the jet axis and in some cases complemented by event shape variables. All the methods will be described and results using data collected up to the 1993 data taking period will be presented. A comparison with other experiments and with the Standard Model predictions will be shown.

Tuesday 12 December

CERN PARTICLE PHYSICS SEMINAR

at 15.30 hrs* – Auditorium

Joint Seminar on First Results from LEP 1.5

by L. ROLANDI / ALEPH, H. DIJKSTRA / DELPHI,

D. STICKLAND / L3 & G. WILSON / OPAL

* *Please note unusual time*

Tea & coffee will be served at 15.00 hrs.

Note : It is hoped to broadcast this seminar on MBONE. If so, further information will be provided later by the Users' Office via the CERN Computer News system.

Wednesday 13 December

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

1/N expansion for baryons

by A. MANOHAR / U.C. San Diego

One can prove the existence of an $SU(6)$ spin-flavour symmetry for baryons in the $N_c \rightarrow \infty$ limit of QCD. The $1/N_c$ corrections can be analysed to determine the structure of $SU(6)$ breaking. The baryon masses, magnetic moments, axial couplings and non-leptonic decays have been analysed in the $1/N_c$ expansion, and the results are in excellent agreement with experiment; results derived to two orders in $1/N_c$ typically work to 10% accuracy. The $1/N_c$ expansion is a systematic expansion method in QCD, and explains many of the successes of phenomenological models such as the quark model and Skyrme model.

Wednesday 13 December

TECHNICAL PRESENTATION

at 14.00 hrs – CN Auditorium, bldg 31/3-004&5

CES Technical Presentation

by F. WORM / CES

CES PowerPC platforms in operation under Lynx-OS :

- Self-hosted development stations with physics package: RTPC8067-603 or 604
- PMC carrier target system with embedded LYNX in Flash EPROMS:
- RIO28060-603 or 604

ATM products :

- 155 Mb ATM PMC with a TCP-IP Lynx driver for RTPC and RIO2 base systems

NEw high speed interconnections:

- PCI - FDL
- PMC - FDL

Information: C. Moine / ECP /5035

Organiser : S. Cannon / CN / 5036

Wednesday 13 December

COMPUTING SEMINAR

at 16.00 hrs – CN Auditorium, bldg 31/3-004&5

Exchange of detector models between GEANT 3 and CAD systems

by J. VUOSKOSKI / CERN-AT

The large and expensive detectors proposed for the LHC experiments will require detailed simulation and modelling. As the engineering work on detectors makes use of an increasing number of Computer Aided Engineering tools, data transfer of detector models between physics simulation programs and Computer Aided Design systems is essential. This talk will give an introduction to the nature of the GEANT 3 simulation package and CAD systems. The geometrical modellers of both systems will be described. The basic problems in the transfer of detector models between GEANT 3 and CAD systems will be discussed. The available tools and methods for the data transfer as well as future plans will be presented.

Organiser : G.Folger / CN

Thursday 14 December

INFORMATION SESSION ON QUALITY MANAGEMENT

at 09.00 hrs – ECP Conference Room, bldg 13/2-005

1/2 Day Information Session on Quality Management

by L. EVERETT / Hewlett Packard, J. FAIRCLOUGH / Cray Systems & S. QUINTON / RAL

The invited speakers will give presentations on their experiences related to the introduction of quality management in their organisations, and participate in a panel discussion.

Information : Mick Storr/ECP/8264/mick.storr@cern.ch)

Thursday 14 December

TECHNICAL PRESENTATION

at 14.00 hrs – CN Conference room 1, bldg 600

Liaison Meeting with Radstone

by Michael STERN / Radstone Technology PLC.

What's new at Radstone Technology PLC.

Radstone PowerPC Products Update.

Organiser : S. Cannon / CN / 5036

Friday 15 December

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

Unstable particles in gauge theories

by Apostolos PILAFTSIS / Rutherford Lab., Oxford

A gauge-independent approach to resonant tradition amplitudes with non-conserved external currents is presented, which is implemented by the pinch technique. The analytic expressions derived with this method are $U(1)_{em}$ invariant, independent of the choice of the gauge parameter, and satisfy a number of required theoretical properties, including unitarity. Although special attention will be paid to resonant scatterings involving the γWW vertex in the minimal Standard Model, our approach can be extended to the Z boson, top quark or other unstable particles present in renormalizable models of new physics.

Monday 18 December*

CERN COLLOQUIUM

at 16.30 hrs – Auditorium*

Reflections on the Discovery of the Tau Lepton

by Martin PERL / Nobel Laureate in Physics 1995, SLAC, Stanford

* *Please note unusual day*

** *Tea & coffee will be served at 16.00 hrs*

POUR INFORMATION / FOR INFORMATION

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Tel. 022 702 6273
Fax 022 781 2192

Mercred 13 décembre

SEMINAIRE DE PHYSIQUE CORPUSCULAIRE

à 17.00 h – Amphithéâtre Stückelberg

La détection des ondes gravitationnelles et l'expérience VIRGO

par Michel YVERT / LAPP, Annecy

Il y a maintenant 80 ans, A. Einstein prédisait, dans le cadre de la théorie de la Relativité Générale, l'existence d'ondes gravitationnelles. La détection directe de ces ondes n'a toujours pas été réalisée et représente l'un des grands défis posé aux physiciens expérimentateurs.

Grâce aux technologies actuelles, il est possible de concevoir une expérience dont la sensibilité permettra la mise en évidence directe de ces ondes gravitationnelles. Dans cet exposé, après un bref rappel des enjeux pour la physique et l'astrophysique, sera présentée l'expérience Virgo, collaboration franco-italienne pour la réalisation d'un grand détecteur interférométrique dont la construction est engagée et se déroulera sur plusieurs années.

Thursday 11 January

LHC TECHNICAL SEMINAR

at 16.30 hrs – AT Auditorium, bldg. 30/7th fl.

The LHC Proton Injector Chain

K. SCHINDL / CERN-PS & T. LINNECAR / CERN-SL

Monday 15 January

PPE SEMINAR

at 16.30 hrs – Auditorium

**A first look at neutrino events
with the NOMAD detector**

by Dario AUTIERO / CERN-PPE

Vendredi 12 janvier

SEANCE D'INFORMATION

à 14.30 h – Amphithéâtre

Le projet LHC

par L.R. EVANS / Chef du projet LHC

Langue: français

**EDUCATION
SERVICES
EDUCATIFS**

**FORMATION EN LANGUES
LANGUAGE TRAINING**



Françoise Benz ☎ 3127
Andrée Fontbonne ☎ 2844

Informations détaillées sur le WWW / Information about the courses on WWW
<http://www.cern.ch/Training/>

ANGLAIS-FRANÇAIS

Les inscriptions à ces cours sont ouvertes dès maintenant pour le deuxième trimestre 95-96 (du 22 janvier au 29 mars).

Les formulaires d'inscription sont à votre disposition au Secrétariat de la Formation en Langues (bât. 54/E-001), au Bureau des Utilisateurs (bât. 60/ R-020), et à votre secrétariat de division.

Ces cours s'adressent à toute personne travaillant au CERN ainsi qu'aux conjoints.

Pour toute information, veuillez contacter soit Mme Benz au 3127, soit Mme Fontbonne au 2844 (l'après-midi seulement); M. Liptow : tél. 2957

ENGLISH-FRENCH

Registration for second term's language courses 95-96 : from 22 January to 29 March.

Application forms are available at the Language Training Secretariat (bldg 54/E-001), at the Users Office (bldg 60/R-020) and at your Divisional Secretariat.

These courses are open to all persons working on the CERN site and to their spouses.

For all information, please contact Mrs Benz, 3127 or Mrs Fontbonne, 2844 (afternoons only); Mr Liptow : 2957.

**ENSEIGNEMENT GÉNÉRAL
Tél. 5811**

Jeudi 14 décembre

à 13.00 h – Amphithéâtre

Science pour tous

par Rafel CARRERAS



**ENSEIGNEMENT TECHNIQUE
TECHNICAL TRAINING**

Monique Duval ☎ 44.60
Monique_Duval@macmail

Information sur les cours, dates et places disponibles sur WWW
Information about the courses, dates and places available on WWW
<http://www.cern.ch/EducTech/>

RAPPEL

PERMANENCE BUREAUTIQUE

La prochaine permanence sur le site de Preveessin au

bâtiment 864 - 2 B14 (Salle J. B. Adams)

aura lieu **Jeudi 14 décembre, de 14 h. à 17 h. :**
Spécial Noël

De 09.00 à 12.00 h., Valérie Huret répondra aux questions que vous vous posez concernant l'utilisation des logiciels de bureautique (pas de rendez-vous préalable). Vous pouvez également poser vos questions par courrier électronique QuickMail à l'adresse suivante :

Valerie_Huret@macmail2