

ADMINISTRATIVE CIRCULAR

The Administrative Circular No. 18 : APPEALS IN CONNECTION WITH THE CLASSIFICATION OF POSTS AND NON-PROMOTION is now published.

It is available AT THE SECRETARIAT OF YOUR DIVISION.

J.-F. Barthélemy
Tel. 2855

CIRCULAIRE ADMINISTRATIVE

La Circulaire administrative n° 18 : RECOURS EN MATIERE DE CLASSIFICATION DES EMPLOIS ET NON-PROMOTION est maintenant publiée.

Elle est disponible AU SECRETARIAT DE VOTRE DIVISION.

J.-F. Barthélemy
Tél. 2855

SEMINARS SEMINAIRES

Lundi 24 octobre

SEMINAIRE EF

à 11.00 h – Salle de conf. EF (bât. 13, 2-005)

Le W, le Z⁰, Pourquoi? Comment ? (1)

par Ch. PEYROU

L'exposé essaiera de montrer de manière élémentaire pourquoi l'idée de l'existence de ces particules s'est imposée et comment on peut par pure intuition se faire une idée de leur masse et aller un grand bout de chemin dans la compréhension des choses. L'intérêt reposera autant sur les digressions (par exemple : qu'est-ce qu'un propagateur ?) que sur le sujet même. Une vue plus ou moins juste des idées théoriques élaborées sera donnée en conclusion.

Lundi 24 octobre

PRESENTATION TECHNIQUE

à 14.00 h – Auditorium LEP (bât. 30, 7^e ét.)

F. BALLMER SA (CH) propose une conférence technique (2 heures avec films et diapositives) sur les produits de la maison ALIMAK (S) : ascenseurs à crémaillère pour le transport de personnes et de matériel. Domaines d'applications : centrales nucléaires, puits de ventilation, antennes, cheminées, etc.

Langue : anglais

Renseignements : M. Diraison / FI / 4585

MANAGEMENT BOARD OF THE STAFF INSURANCE SCHEME

At its 193rd meeting, on 6 October, the Management Board reviewed the various questions raised at the Annual Plenary Meeting of the members and beneficiaries of the Scheme held the previous day.

The Board then began its examination of a working document setting out possible changes in the presentation of the Scheme's Annual Report.

The Chairman and Administrator then presented a report on the recent discussions in the Finance Committee concerning the CERN Management's proposals for the implementation of the recommendations of the actuarial study, proposals on the administrative structure of the Scheme, and the Regulations for the Staff Insurance Scheme.

Under the next item on the agenda, the Board approved a draft document relating to pension adjustments from 1 January 1984, which would be submitted to the Finance Committee and Council.

In conclusion, the Administrator presented a brief report on the work of the Real Estate Investment Commission and the projects under consideration.

Monday 24 October

EP SEMINAR

at 17.00 hrs – Auditorium

Deviations from the EMC effect in antineutrino interactions

by A.M. COOPER / CERN-EP

Data from the exposures of BEBC filled with heavy neon and with deuterium to the CERN-SPS antineutrino wide band beam are compared to investigate any difference between the structure functions of heavy targets and those of free protons and neutrons. The identical beam set up and electronic muon identification for the two targets allow comparison with very small systematic errors. No substantial difference between the data samples is detected. We interpret our results in terms of current models, which imply a softening of the valence quark momentum spectrum and an increase in the contribution of the sea in a heavy nucleus. Our data is consistent with some softening of the valence quark distribution, but there is no evidence for any increase in the sea, even for higher Q^2 , $\langle Q^2 \rangle \cong 7.5 \text{ (GeV/c)}^2$, at $x = 0.075$.

Tuesday 25 October

PROTON SYNCHROTRON AND SYNCHRO-CYCLOTRON COMMITTEE

Open session

at 09.00 hrs – Council Chamber

1. *Information from the Chairman.*
2. *Improvements to the Antiproton Accumulation Rate (E. Jones).*

3. Status reports and beam requirements :

SC 83 – Correlation measurements with a) light particles, and b) pion projectile fragments (CERN-Copenhagen Niels Bohr Inst.-Grenoble C.E.N., Grenoble I.S.N., Lund Univ.-Saclay CEN DPhN; B. Jakobsson).

SC 86 – The study of secondary beams produced by heavy ions (Bordeaux Gradignan C.E.N.-G.A.N.I.L.-Orsay I.P.N.-CERN; PSCC/83-38/M165; A. Fleury).

CLOSED SESSION

at 14.30 hours, in the Sixth Floor Conference Room, Administration Building.

Mardi 25 octobre

PRESENTATION TECHNIQUE

de 09.30 à 16.00 h – bât. 73, salle 2-027

SIBALCO (CH), spécialisé dans la fabrication et la vente de produits pour l'électrotechnique et l'électronique, propose en exposition :

- boutons rotatifs en métal ARGO (GB)
- relais à semi-conducteur CAPITAL (GB)
- interrupteurs miniatures C+K (GB)
- relais reed, relais à semi-conducteur, résistances de précision ELFEIN (D)
- thermorupteurs ELMWOOD (GB)
- connecteurs pour câbles plats HI-TEC (GB)
- circuits en couche épaisse, réseaux de résistance, diodes et condensateurs HITECH (IR)
- accouplements à cadran, à soufflet et autres joints d'arbres HUCO (GB)
- connecteurs D, interrupteurs rotatifs LORLIN (GB)
- connecteurs hermétiques, coaxiaux et subminiatures MALCO (US)
- claviers NFI (GB)
- équipements de désoudage et réparation de circuit PACE (US)
- casques de protection de l'ouïe, casques de communication RACAL (GB)
- claviers étanches SADAR (US)
- connecteurs et socles DIL SAMTEC (US)
- connecteurs et socles HARWIN (GB)
- instruments de mesure SIFAM (GB)
- voyants miniatures et diodes lumineuses SLOAN (CH)

Langues : anglais, français

Renseignements : M. Diraison / FI / 4585

Tuesday 25 October

CERN COLLOQUIUM

at 16.30 hrs – Auditorium*

Achieving scientific literacy – experience from Finland

by H. MIETTINEN / Helsinki University

A campaign to interest the general public in science has been initiated by Finnish scientific societies. It involves the publication of books and a popular science magazine, a series of TV programmes and special classes for high-school students. The highly successful CERN exhibition in Helsinki in May 1982 gave great impetus to

the project to build a science centre. The centre although emphasizing the importance of basic research, covers a wide area including the effect of science and new technologies in everyday life.

*) Tea and coffee will be provided at 16.00 hrs.

Wednesday 26 October

THEORETICAL SEMINAR

at 14.00 hrs – TH Conf. room

Topological chiral soliton model of the nucleon

by G.E. BROWN / NORDITA and

Stony Brook

The chiral bag model can be represented as a modification in Skyrme's soliton model, which involves putting in a defect at short distance. The defect contains the three-quark fields. This amounts to building in the two-phase structure of the vacuum, and allows a quantum description of the defect region. Fermion number is still quantized, but is now shared between interior and exterior regions.

Wednesday 26 October

DD SEMINAR

at 15.00 hrs : DD Seminar

16.00 hrs : coffee break

16.15 hrs : demonstrations of MACSYMA on the Symbolics 3600

DD Amphitheatre, bldg 31 (3rd fl.)

MACSYMA and its application to problems in engineering and the sciences

by Dr. Richard PAVELLE / Lab. for Computer Science, MIT and Symbolics, Cambridge

MACSYMA is a large, interactive computer system, designed to assist engineers, scientists and mathematicians in solving mathematical problems. A user supplies symbolic inputs and MACSYMA yields symbolics results. The MACSYMA system has been under continual development at MIT since 1969 and over 100 man-years of effort have gone into its development. MACSYMA has the most extensive range of capabilities of any algebraic manipulation system. The capabilities include (in addition to the basic arithmetic operations) facilities for computing analytical answers for :

- indefinite or definite integration
- ordinary differential equations
- systems of equations (non-linear)
- simplification
- factorization
- Taylor series (several variables)
- Laplace transforms
- matrix, vector and tensor manipulation
- numerical methods and graphics
- generation of FORTRAN code from MACSYMA output
- a large percentage of the mathematical techniques used in engineering and the sciences

The system and its capabilities will be presented, as well as some applications to engineering problems.

Thursday 27 October

PRESENTATION

at 10.00 hrs – DD Amphitheatre
(bldg. 31, 3rd fl.)

The Symbolics 3600 – An advanced workstation

by G. ATTARDI / University of Pisa and
DELPHI, Electronic Design System, Viareggio

The Symbolics 3600 is a 36-bit personal workstation designed for high productivity software development and for the execution of large symbolic programs. A special hardware design provides support for high level language operations like data-type checking and incremental garbage collection of memory. Object-oriented programming techniques are used throughout the 3600 system to provide a reliable and extensible integrated environment. The 3600 includes a high resolution bit-mapped display, mouse, 2.25 MByte memory, 169 MByte Winchester disk, Ethernet interface and Front-end Processor for local or remote diagnostics. The software environment will be described: the software development tools (including the display debugger/inspector/tracer available both for LISP and FORTRAN 77), the window system, the generic file system, the network software.

Note : From 14.00 there will be a further demonstration of packages for VLSI design, symbolic manipulation and for graphics animation.

Vendredi 28 octobre

PRESENTATION TECHNIQUE

à 10.00 h – bus, parking PTT près bât. 63

AB LORENTZEN ET WETTRE (S) propose en démonstration des machines d'essais de matériaux (traction – compression, gamme 5-100 kN).

AB LORENTZEN AND WETTRE (S) will demonstrate the ALWETRON Materials Testing Machines including the following items :

- Alwetron universal testing machine
- tensile strength tester Alwetron TH1
- pulp disintegrator
- bursting strength tester
- pressure transducer with digital display (for bursting strength tester)
- stiffness tester
- densometer
- precision micrometer
- thickness profiler
- tearing tester
- wet strength tester
- radio dryer
- punch
- compression strength tester
- strip sampler

Langues : anglais

Renseignements : M. Diraison / FI / 4585

Friday 28 October

SPECIAL EP SEMINAR

at 14.00 hrs – TH Conf. room

Quark dynamics of polarization in high-energy hadron collisions

by Hannu I. MIETTINEN /
University of Helsinki

Lundi 31 octobre

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Le W, le Z⁰, Pourquoi? Comment ? (2)

par Ch. PEYROU

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Tuesday 1 November

PRESENTATION

at 11.00 hrs – DD Amphitheatre (bldg. 31, 3rd fl.)

The Megatek Whizzard 1600

by M. HILLEBRAND / Megatek SA,
Lausanne

Tuesday 1 November

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Recent results from the ARGUS experiment at DORIS

by W. SCHMIDT-PARZEFALL / DESY

Thursday 3 November

PRESENTATION

at 14.00 hrs – DD Amphitheatre (bldg. 31, 3rd fl.)

Data General : graphic environment tools

by R. VON FELTEN / Data General SA,
Lausanne

Thursday 3 November

CERN COLLOQUIUM

at 16.30 hrs – Auditorium

The second law of thermodynamics as a symmetry-breaking principle

by I. PRIGOGINE / Université libre de
Bruxelles