

COMMUNICATIONS **OFFICIELLES**

Les membres du personnel sont censés avoir pris connaissance des communications officielles ci-après.

OFFICIAL NEWS

Members of the personnel shall be deemed to have taken note of the news under this heading

COMMISSION EXECUTIVE RESUME DES DISCUSSIONS

A sa soixante-septième réunion, le 8 mai 1980, la Commission exécutive a entendu tout d'abord un rapport des Directeurs généraux sur l'issue des réunions d'avril du Comité des Directives scientifiques, du Comité des Finances, de la réunion de programme du Comité du Conseil, et de la session spéciale du Conseil, lors de laquelle le Professeur H. Schopper a été officiellement nommé Directeur général de l'Organisation, pour une période de cinq ans, à compter du 1er janvier 1981.

Elle a ensuite entendu un rapport sur la situation financière de certains projets et approuvé deux projets d'équipement, à savoir "Anneau pour antiprotons de basse énergie (LEAR)" et "Renouvellement des installations de recherche de personnes".

La Commission a procédé à un examen assez approfondi d'un projet de circulaire administrative consacrée à la "Bonification des droits à pension des membres du personnel travaillant en roulement" et convenu de poursuivre la discussion à une date ultérieure à la lumière de nouvelles propositions qui seront formulées par la Division du Personnel en consultation avec les Divisions intéressées et l'Association du personnel.

La Commission exécutive s'est accordée sur le principe d'une extension du foyer du CERN et convenu qu'un document sur ce sujet sera soumis au Comité des Finances à sa réunion de juin 1980. Elle a noté qu'aucune dépense ne serait imputée sur le budget du CERN pour ce nouveau bâtiment qui sera financé par l'intermédiaire du Fonds de Logement.

La Commission exécutive a approuvé pour la nouvelle Commission paritaire de Formation et de Perfectionnement la composition suivante:

Président:

M.G.N. Hine / DD

Secrétaire:

E. Fischer / PE

Membres Es qualité:

L. Di Lella / EP
(Président du Comité de l'Enseignement académique)

E. Fischer (par intérim) / PE
(Président du Comité de l'Enseignement technique)

Membres de l'Association du personnel:

M. Benot / DD
A. Verdier / ISR

Membres cooptés:

M. Reinharz / SPS
J. Schmid / EF

SEMINARS **SEMINAIRES**

MONDAY 2 JUNE

TECHNICAL PRESENTATION

9.30 hrs/10.30 hrs - Talk

10.30 hrs/11.00 hrs - Open discussion

Room 2-005, Bldg.13 (D2 CERN Meyrin Map)

EMI ELECTRON TUBES (GB), represented by EMI TECHNOLOGY SA (CH), will give a talk on "A review of EMI hemispherical PM tubes - application and performances": The EMI 9870 series of hemispherical PMs is used in large volume scintillation and Cerenkov detectors for proton decay and cosmic ray studies - Results derived from user experience will be given including reference to parameters such as background rate, afterpulse

performance and transit time dispersion. Practical considerations for obtaining optimum tube performance will also be discussed.

Languages : English, French (questions).

Information : M. Diraison / FI / 4585.

ISR SEMINAR

at 14.30 hrs - ISR Auditorium
(Top floor of Building 30)

"Transverse Single Bunch Instabilities in PETRA"

by R.D. Kohaupt / DESY

Abstract : The strength of the vertical PETRA instability has been investigated experimentally as a function of the energy, the amplitude function, the bunch length and the transverse and longitudinal tune. The observations are compared with the predictions of the "head-tail turbulence" model. In this model different head-tail modes are coupled by the interaction so that unstable travelling waves arise.

MONDAY 2 JUNE

EP SEMINAR

at 17.00 hrs - Auditorium

" $\bar{p}$ and K^- Structure Functions and Hydrogen Data in NA3 Experiment"

by O. Callot / LAL, Orsay

Abstract : We have measured hadronic production of dimuons with different particles and targets. We report here on the $\bar{p}$ and K^- structure function measurement, using the Drell-Yan mechanism, at 150 GeV incident energy. Data on hydrogen at 150, 200 and 280 GeV will also be presented. They allow a clean measurement of the A dependence of dimuon production.

TUESDAY 3 JUNE

PRESENTATION TECHNIQUE

10h00/12h00 - 15h00/16h30

Galerie technique (embranchement GT 800/ GT 801/ GT 2), échelle d'accès dans trottoir carrefour de route (CD3 CERN Prévessin)

BICC VANTRUNK Ltd. et BICC COMPONENTS Ltd. (GB), représentés par BICAL SA (CH), propose une exposition de chemins et échelles de câbles + accessoires de fixation déjà installés.

Langues : Anglais, français.

Renseignements : M. Diraison / FI / 4585.

THEORETICAL SEMINAR

at 14.00 hrs - Theory Conference Room

"Infra-Red Properties of the Gauge Theory Coupling Constant"

by F. Zachariasen / Caltech

Abstract : A numerical solution to an integral equation derived from the Dyson equation will be presented for the gluon propagator in pure Yang-Mills theory. The solution exhibits an infra-red confinement singularity and appropriate asymptotic freedom and may be a reasonable approximation over the entire momentum range.

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium (*)

"Synchrotron Radiation from Protons at the SPS"

by L. Burnod / CERN and
R. Coisson / Univ. di Parma

Abstract : What are the differences between synchrotron radiation from electrons and from protons ? We discuss synchrotron radiation in non-uniform magnetic fields and some particular cases : the 'undulator' and the 'edge effect'. The first observation of (visible) light emitted by protons in magnetic fields has been made at the SPS. We show quantitative measurements and comparison with theory. A non-destructive instrument which 'sees' the proton beam has been

realized (to image the transverse distribution of proton density in the beam), particularly in view of the $p\bar{p}$ storage ring operation of the SPS.

(*) Note : Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 16.00 hrs to meet the speakers and for informal discussions. Tea and coffee will be provided.

WEDNESDAY 4 JUNE

PRESENTATION TECHNIQUE

09h00/16h30 - Bus de démonstration

Parking PTT, près Bât.63 (C2 CERN Meyrin)

SIEMENS (D), représenté par SIEMENS-ALBIS (CH), propose une exposition-démonstration de son programme "Appareils de Mesure" : analogiques - numériques, générateurs - enregistreurs graphiques, lumineux, à écran - place de mesure automatisée - standard de tension et de courant.

Langue : Français.

Renseignements : M. Diraison / FI / 4585.

PS SEMINAR

at 11.00 hrs - PS Auditorium (Bldg.6)

"Lattice of the Antiproton Accumulator"

by B. Autin / CERN

Abstract : The antiproton accumulator is both a storage and a cooling ring. The storage function requires a separate treatment of the injected and stocked beams whereas the stochastic cooling function imposes a high dispersion in revolution frequency and long straight sections, some of them with zero dispersion, to accommodate the equipments of detection and correction. These conditions are fulfilled by a lattice which has the symmetry of the ellipse and is composed of FODO type cells with missing bending magnets. Moreover, they have to be maintained over a wide range of momenta ($\pm 3\%$) and a system of sextupoles and octupoles has been designed for this purpose.

DD SEMINAR

at 16.00 hrs - DD Auditorium
(Bldg.31 - 3rd floor)

"Word Processing at the Central Computers"

by A. Berglund / DD

Abstract : Word processing with computers (from very small to large) has in the last few years become a very active area. Previously confined mainly to 'publishing houses' it is now replacing the typewriter in many offices. At CERN the need for typing technical text introduces a number of complications, but on the other hand the gains in ease of modification from draft to final copy are the greater. The topics covered in the seminar include : - output devices (laser printer, DTC/Diablo terminal, phototypesetter); - word processing software; - solutions in different systems of the special problems in typing technical text (e.g. greek letters, super- and sub-scripts, mathematical formulæ).

THURSDAY 5 JUNE

TECHNICAL PRESENTATION

10.00 hrs/12.00 hrs - 14.30 hrs/16.30 hrs
Auditorium (1st floor, Bldg.864)
(GH7 CERN Prévessin)

BICC GENERAL CABLES Ltd. (GB), represented by BICAL SA (B) will give 4 talks (20 minutes + questions each) : 1) low smoke, low toxicity and fire resistant cables; 2) radiation resistant cables; 3) linear heat sensor cables; 4) radiating coaxial cables.

Language : English.

Information : M. Diraison / FI / 4585.

ESO ASTROPHYSICS SEMINAR

at 14.00 hrs - DD Auditorium
(Bldg.31 - 3rd floor)

"Axes of Radio Galaxies"

by R.D. Ekers / Groningen

Abstract : A review of the relations between radio structure and the photometric and dynamical properties of the galaxies. New observations of elliptical galaxies with dust lanes, CenA and the "pressing beam" radio galaxy NGC 326 will be presented.

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium (*)

"Experimental Study of Prompt Neutrino Production in 400 GeV Proton Nucleus Collisions - CHARM Collaboration"

by P. Monacelli / Rome - INFN

Abstract : Results are reported from a beam-dump experiment performed at the 400 GeV CERN SPS using the CHARM neutrino detector. Prompt electron neutrinos and prompt muon neutrinos produced by decays of short-lived particles were observed. The ratio of the fluxes of ($\nu_e + \bar{\nu}_e$) and ($\nu_\mu + \bar{\nu}_\mu$) has been measured and will be discussed. A deviation of the spectrum of prompt muonless events from the expectation of $D\bar{D}$ production and decay has been observed at low energy.

(*) Note : Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 16.00 hrs to meet the speaker and for informal discussions. Tea and coffee will be provided.

FRIDAY 6 JUNE

ISOLDE SEMINAR

at 11.00 hrs - SC Conference Room (26/1-025)

"Recent Results from the Chalk River Isotope Separator"

by J. Hardy / Chalk River

THEORETICAL SEMINAR

at 14.00 hrs - Theory Conference Room

"QCD at High Energies"

by A. Mueller / Columbia Univ.

Abstract : A critical discussion will be given as to which processes are calculable in QCD from renormalization group arguments.

CERN COMPUTER SEMINAR

at 14.00 hrs - Council Chamber

"Floating Point Systems' New Array Processor"

by C. Haberland / Floating Point Systems, Inc.

Abstract : Floating Point Systems, manufacturer of Array Processor Computers, has a new model, the FPS-164 attached processor. The FPS-164 features extended precision, large memories and high speed. The FPS-164 was designed for the low-cost processing of large-scale scientific and engineering applications. Such applications include weather modeling, structural analysis, quantum chemical calculations, and high-energy physics computations. The FPS-164 provides up to a maximum of 12-million floating-point computations per second, plus a concurrent maximum of 6-million integer/address calculations per second. Its precision exceeds 15 decimal digits through 64-bit floating point arithmetic. Based on 16K dynamic RAM chips, main memory is expandable to 1.5 million 64-bit words (12 megabytes). The architecture is based upon its predecessor models, the AP-120B/AP-190L/FPS-100, of which there presently over 1500 installed.

This seminar will trace the evolution of the FPS-164. Enhancements to the present architecture will be discussed. Finally, the application to high-energy physics will be addressed particularly with respect to quick-look analysis of experimental data.

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium (*)

"Search for CP Violation in K_μ^3 Decays"

by H. Kasha / Yale Univ.

Abstract : A series of measurements is being carried out at Brookhaven in search for the violation of CP invariance in K_μ^3 decays. An experiment with K^0 mesons set a limit on the transverse polarization of the decay muons close to the value expected from final state Coulomb interactions. A run with K^+ mesons for which there is no such masking effect is starting now.

(*) Note : Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 16.00 hrs to meet the speaker and for informal discussions. Tea and coffee will be provided.

MONDAY 9 JUNE

EP SEMINAR

at 17.00 hrs - Auditorium

"Two-Photon Resonance Production and
Meson Form Factor Measurements with
MARK II at SPEAR"

by P. Jenni / CERN

TUESDAY 10 JUNE

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"Observation and Study of Rare Decays
of η , η' and ω Mesons"

by Y. Prokoshkin / IHEP, Serpukhov

FRIDAY 13 JUNE

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"Confirmation of the Electric Neutrality
of Matter at the Milligram Level"

by G. Morpurgo / Univ. of Genoa

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POUR INFORMATION / FOR INFORMATION

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VENDREDI 6 JUIN

SEMINAIRE DU LAPP

à 10h30 - Amphithéâtre du LAPP

Laboratoire d'Annecy-le-Vieux de Physique des
Particules, Chemin de Bellevue, Annecy-le-Vieux
(Haute-Savoie, France)

"Ultra-High Energy Physics in Cosmic
Radiation and at Accelerators"

by Y. Muraki / ICRR Tokyo University

Renseignements complémentaires auprès de :
H. Pessard / CERN / EP, tél. 6526, ou Laboratoire
d'Annecy-le-Vieux, tél. (023) 23.32.45, int. 327.

- REMINDER

The GSI (Darmstadt, West Germany) is organizing a

WORKSHOP ON FUTURE RELATIVISTIC HEAVY
ION EXPERIMENTS

7.-10. October 1980

Purpose : To focus the attention, in terms of
theoretical concepts and instrumentation develop-
ments, on the research goals of a new generation
of high energy heavy ion experiments.

To obtain further information, contact R. Stock,
R. Bock, GSI, Postfach 110541, 6100 Darmstadt,
West Germany, as soon as possible.

R. Hagedorn / TH

BULLETIN CERN

23/80

TRAINING AND **EDUCATION** **ENSEIGNEMENT**

JEUDI 5 JUIN

ENSEIGNEMENT GENERAL

(Tél. 2844)

13h00/13h30 - Amphithéâtre

"Science pour Tous"

par R. Carreras

JUNE 10 AND 13

ACADEMIC TRAINING

at 11.00 hrs - Auditorium

"Program Optimisation in a FORTRAN
Environment"

by M. Metcalf / CERN

(Lectures 1 and 2)

(For abstract, see notices and next week's
Bulletin.)

INFORMATIONS **GENERALES** GENERAL **INFORMATION**

A VENDRE AUX DIVISIONS

Réservoir de pression en acier - fabrication
Sulzer - 1970. Pression : 50 kgs/cm²;
volume : 7 m³; poids : 10 tonnes.

Service des Magasins /
Récupération - Tél. 2180

RECHERCHONS...

Des noms de firmes capables de fabriquer
des potentiomètres (genre "Helipot") résistants
aux radiations (10⁹ rad minimum). R. Dubois /
SPS / Tél. 4827 - 5689 - 4828 (ou par courrier
interne).