

COMITE DE MANAGEMENT

27 octobre 1983

La dix-huitième réunion du Comité de Management a commencé par une ample discussion de deux documents de travail relatifs aux filières de carrière et à l'appréciation des performances du personnel. Cette discussion se poursuivra à la réunion de décembre 1983 du Comité ainsi qu'à des réunions ultérieures dans les mois à venir. Le Directeur général a ensuite présenté les modifications essentielles apportées au document de planification à long terme 'Activités scientifiques du CERN et estimations budgétaires 1984-1987' à la suite de la discussion qui a eu lieu à la réunion précédente du Comité de Management. Il a annoncé son intention de demander au Conseil l'octroi d'une somme forfaitaire de 55 MFS, étalée sur les quatre années 1984-1987, pour assurer le financement du programme d'améliorations de l'installation proton-antiproton. Toutefois, étant donné que le Comité du Conseil lui avait demandé de proposer des solutions permettant de financer la réalisation du collecteur d'antiprotons ACOL dans la limite du budget actuel, il a dû examiner cette possibilité. Ce financement paraît très difficile, et en désespoir de cause, la solution pourrait consister à arrêter l'exploitation de tous les accélérateurs du CERN pendant une année environ au cours de la période située autour de 1986. H. Schopper a terminé en faisant le bilan d'une réunion qui s'est tenue à Washington concernant la collaboration interrégionale en physique des hautes énergies, réunion convoquée pour faire suite aux Sommets de Versailles et de Williamsburg. Il a été indiqué clairement que pour l'avenir immédiat l'Europe était entièrement liée par l'engagement de réaliser les projets LEP et HERA, et que les installations actuelles et prévues, notamment le tunnel du LEP dans les années 90, devraient être utilisées pour d'autres projets. Un accord s'est dégagé sur la nécessité d'une coordination et d'une coopération plus étroites en matière de recherche et de développement des accélérateurs. Enfin, C. Roche a présenté un bref exposé de la situation actuelle concernant la réserve financière du Directeur général et les dépenses de personnel.

SEMINARS SEMINAIRES

Lundi 14 novembre

SEMINAIRE EF

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

OMEGA à 450 GeV

par W. BEUSCH / CERN-EF

Le spectromètre OMEGA a été conçu en 1968 pour un faisceau du PS. Depuis, il a subi diverses transformations pour pouvoir travailler avec des énergies et intensités toujours plus grandes. Cette année, il se trouve dans le faisceau E1/H1 (du Hall Ouest) qui peut aller jusqu'à 450 GeV. Les quatre expériences approuvées pour OMEGA seront brièvement décrites et leurs appareillages spéciaux discutés. Avec l'exemple de WA77 l'utilisation de nouvelles possibilités de trigger sera décrite.

MANAGEMENT BOARD

27 October 1983

At the eighteenth meeting of the Management Board there was first an extensive discussion on two working papers on Career Profiles and on Staff Appraisal. The discussion will be continued at the December 1983 meeting of the Board as well as at meetings in the coming months.

The Director-General then described the essential changes to the long-term planning paper 'Scientific Activities and Budget Estimates 1984-1987' which had been made as a result of the discussion in the previous meeting of the Management Board. He said that he intended to ask Council to grant a lump sum of 55 MSF, spread out over the four years 1984 to 1987 inclusive, to fund the proton-antiproton improvement programme. However, since Committee of Council had asked him to make proposals how to finance ACOL within the present budget he had to consider this possibility. This seems very difficult and the desperate last resort could be to stop the operation of all CERN accelerators for about one year in the period around 1986.

H. Schopper then reported on the outcome of a meeting in Washington concerning inter-regional collaboration in high-energy physics and which had been convened as a follow-up to the Versailles and Williamsburg Summit meetings. It had been made clear that Europe was fully committed to the LEP and HERA projects for the immediate future and that existing and planned facilities should be used for further projects, in particular the use of the LEP tunnel in the 1990s. Agreement had been reached on the need for closer coordination and cooperation of accelerator research and development work.

Lastly C. Roche reported briefly on the present status of the DG financial reserve and on the status of personnel expenditure.

Monday 14 November

PRESENTATION

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

Local Area Network (PLAN)

by Railton SMITH, ZYNAR Ltd. –

a Rank affiliate

The speaker will discuss the standards in Local Networks and their actual layouts. He will talk about the new possibilities given by the use of such Networks in conjunction with personal computers. Both these technologies, personal computers and Networks, have influenced the new PLAN (Personal Local Area Network). Small configurations (2-10 PC's) as well as large ones (up to 255 PC's with storage of 548MB) will be discussed. Finally the speaker will discuss how PLAN supports a Data Base.

Tuesday 15 November

PROTON SYNCHROTRON AND SYNCHRO-CYCLOTRON COMMITTEE

Thirty second meeting

OPEN SESSION

at 09.00 hrs – Council Room
(continuing into the afternoon)

1. *Information from the Chairman*
2. *Status report and proposal for a continuation of experiment IS20; Mössbauer studies of implanted impurities in solids (Aarhus-ISOLDE Collaboration CERN; PSCC/83-23/M157 Rev. II; G. Weyer).*
3. *Muon diffusion in metals (PSCC/83-47/M168; D. Richter).*
4. *Hyperfine fields and phase transition in magnetic materials (PSCC/83-48/M169; J. Chappert).*
5. *Muonium and muonic molecules (PSCC/83-49/M170; S.F.J. Cox).*
6. *μ SR facility at the SC/ beams and spectrometers (PSCC/83-50/M171; O. Hartmann).*
7. *Vertex reconstruction in μ SR (PSCC/83-50/M171; P. Podini).*
8. *μ SR experiments under high pressure and low temperatures (PSCC/83-50/P171; M. Kalvius).*

CLOSED SESSION

at 16.00 hrs – 6th floor Conf. room.

Tuesday 15 November

CAS ACCELERATOR SEMINAR

at 11.00 hrs – SPS Auditorium (bldg. 864, 1-D02)

A non-linear numerical model of the SPS collider, EVOL

by S. PEGGS / CERN-SPS and Cornell
University

Extensive searches of the SPS tune space during storage are not feasible during the finite machine development periods. A successful numerical model can, however, economically suggest regions of particular promise. The physical content of a model which describes observed SPS behaviour will be presented with implications for the SPS collider development.

Wednesday 16 November

INTERSECTING STORAGE RINGS COMMITTEE CLOSED SESSION

at 09.00 hrs – 6th fl. conf. room of the Admin.
bldg.

Wednesday 16 November

PRESENTATION

at 10.30 hrs – DD Amphitheatre (bldg. 31, 3rd fl.)

GKS Functionality in an intelligent graphics terminal

by R. SPIERS / Sigmex Ltd. Sussex, England

Sigmex Ltd is building a range of medium to high resolution monochrome and colour graphics terminals. The new 6100 series of workstations provides, for the first time, intelligent terminals with in-built GKS (the new proposed ISO graphics standard) functionality on high resolution raster displays. The devices implement a GKS workstation interface, with functionalities such as graphics primitives with individual or bundled attributes, segmentation, workstation transformation and the GKS input model. The speaker will present and demonstrate the terminal.

Wednesday 16 November

PS SEMINAR

at 11.00 hrs – PS Auditorium (bldg. 6)

Performance and problems of the BESSY 800 MeV electron storage ring

by G. MÜLHAUPT / BESSY, Berlin

After a general overview over the structure and the tasks of the BESSY synchrotron radiation facility a phenomenological description of the performance of the storage ring in its different magnet optics will be given. The future developments at BESSY (2. rf-system, single bunch operation, compact ring) will be touched.

Wednesday 16 November

THEORETICAL SEMINAR

at 14.00 hrs – Th Conf. room

QCD in extreme environments

by P. HASENFRATZ / CERN

In the background of an increasing number of positive experimental signals on the possibility of quark-gluon matter formation in the laboratory, there is a growing theoretical indication that QCD does not predict a bona-fide deconfining phase transition, after all. The available results and their relevance concerning the creation and observation of quark matter are discussed.

Mercredi 16 novembre

REUNION OUVERTE DU LEP

à 14.30 h – Auditorium du LEP
dernier étage du bât. 30

1. *Annonces et réponses aux questions.*
2. *Résultats des mesures géodésiques du réseau LEP en utilisant un appareil de mesure de distance électromagnétique à deux longueurs d'ondes, le Terramètre, par J. GERVAISE.*
3. *Déviations de la verticale engendrées par la proximité du Jura, par M. MAYOUD.*

Il sera traité dans ces deux exposés des problèmes fondamentaux de la géodésie moderne :

a) Les mesures précises de distances se substituent de plus en plus aux mesures d'angles dans les réseaux géodésiques. Les résultats obtenus grâce au Terramètre permettront de fournir les points de contrôle pour l'installation des éléments fonctionnels de LEP.

b) *Les anomalies de gradient de la gravité ont des conséquences directes sur la connaissance des altitudes. Une évaluation locale de ces effets a été entreprise par divers moyens (modèle de masse, mesures astrogéodésiques), afin que LEP soit rigoureusement installé dans un plan.*

Wednesday 16 November

CERN COMPUTER SEMINAR

at 16.00 hrs – Auditorium*

Distributed and multidatabase management in the SIRIUS project

by Witold LITWIN / INRIA, Rocquencourt, France

SIRIUS was a pilot project set up in INRIA, the French Institut National de Recherche en Informatique et en Automatique, with the support of the Agence De l'Informatique (ADI). The goal of the project was to develop techniques for the management of distributed data. The project has produced distributed data base management systems such as DELTA which allows a data base to be spread over several sites. It has also produced multidatabase management systems for joint management of collections of data bases. A presentation of the relevant theoretical principles will be given, followed by an outline description of the prototypes in which the project resulted. The main prototypes are now commercialized by French computer manufacturers or software houses.

W. Litwin will be at CERN also in the morning of Thursday November 17, and will be available for informal discussions. If you wish to meet him, please phone P. Palazzi at 39 44.

* Tea and coffee will be provided at 15.30 hrs.

Friday 18 November

ISOLDE SEMINAR

at 10.30 hrs – SC Conf. room (bldg. 26, 1-025)

Report from the workshop on CELSIUS physics

by Sven KULLANDER / The Gustaf Werner Institute, Uppsala

The former ICE (or still formerly g-2) magnets from CERN will reappear as the CELSIUS storage ring, equipped with an electron cooling system and attached to the Uppsala synchrocyclotron. This kind of facility is expected to open a new era of high precision nuclear physics. A workshop is being arranged in Uppsala 7-9 November to examine the exciting possibilities. Some highlights of this meeting will be reviewed.

Friday 18 November

CERN COLLOQUIUM

at 16.30 hrs – Auditorium*

Evidence for the big bang

by D.T. WILKINSON / Princeton

The big bang model is now widely accepted as the best description of our universe. Since the model implies a

beginning, evolution and an end, it is not the most aesthetic to some minds. But the physical evidence strongly favors the big bang picture. The universe's general expansion age, thermal microwave radiation and light element abundances agree surprisingly well with predictions based on known physics applied to a big bang model. Maybe it does make sense to do elementary particle physics in the early universe.

* Tea and coffee will be provided at 16.00 hrs.

Monday 21 November

EF SEMINAR

at 11.00 hrs – EF Conf. room (bldg. 13, 2-005)

Jet chambers

by J. VA'VRA / CERN-EF

Some comments on small and large jet chambers, choice of parameters to optimize resolution and dE/dX measurement.

Monday 21 November

EP SEMINAR

at 17.00 hrs – Auditorium

Photoproduction of charm

by C. GÖSSLING / CERN-EP

The scattering of virtual or real photons on nucleons with heavy flavour final states permits the study of production mechanisms for heavy quarks. This leads to conclusions about parton distributions in the nucleon. Most of the seminar will discuss the muoproduction of open and hidden charm as seen in the European Muon Collaboration (EMC). Possible muoproduction of beauty and recent results on photoproduction of heavy flavours will be mentioned.

Tuesday 22 November

CAS ACCELERATOR SEMINAR

at 11.00 hrs – SPS Auditorium (bldg. 864, 1-D02)

Beam-beam separation in colliders

by K.H. KISSLER

Wednesday 23 November

DD SEMINAR

at 16.00 hrs – DD Amphitheatre (bldg. 31, 3rd fl.)

Computer Aided Design (CAD) with EUCLID

by D. WISKOTT

Lundi 14 novembre

PHYSICS COLLOQUIUM

University of Geneva, Section de Physique, 24 quai Ernest-Ansermet, CH-1211 Genève 4

at 17.00 hrs – Ecole de Physique, auditoire B*

From W and Z⁰ to LEP

by Professor H. SCHOPPER / CERN

After a short introduction to the main problems of elementary particle physics a review of recent achievements at CERN will be given. In particular the latest results on the intermediate bosons will be reported. The low energy antiproton ring LEAR and its experimental programme will be discussed. Finally the status of the LEP project and its future options will be reviewed.

* Tea will be provided before the colloquium, as from 16.30 hrs.

TRAINING AND

EDUCATION

ENSEIGNEMENT

ENSEIGNEMENT GÉNÉRAL

Tél. 2844

Jeudi 17 novembre

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS

Prochaine séance : jeudi 1^{er} décembre

(l'Amphithéâtre n'étant pas libre le 24 novembre).

INFORMATIONS

GENERALES

GENERAL INFORMATION

PROCHAIN CONCERT

Vendredi 11 novembre 1983 à 20.00 h précises

Amphithéâtre

Récital de piano

François-Joël THIOLLIER

Jean-Philippe RAMEAU
(1683–1764)

Gavotte et Variations

Karl CZERNY
(1791–1857)

Variations sur une très belle
valse viennoise

Félix MENDELSSOHN
(1809–1847)

Variations sérieuses

Johannes BRAHMS
(1833–1897)

Variations sur un chant hongrois
op. 21 No. 2

Entracte (~ 15 min)

Serge RACHMANINOV
(1873–1943)

Variations sur un thème de Corelli,
op. 42

Claude DEBUSSY
(1862–1918)

Trois pièces (1890)
Valse romantique
Rêverie
Danse

Trois pièces
Soirée dans Grenade
Ondine
L'Isle joyeuse

- Billets à Fr.s. 9.- en vente uniquement le soir du concert dès 19h00.
- Pas de réservation par téléphone
- N'oubliez pas de céder vos abonnements si vous ne pouvez pas participer à ce concert. Merci pour ceux qui pourront en bénéficier.