

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

PAIEMENT DE L'IMPOT FRANCAIS

Le paiement de l'impôt français sur les revenus CERN 1979 sera effectué par la Division des Finances, en temps utile, directement aux services concernés de l'Ain et de la Haute-Savoie. Cette année, comme l'an passé, les membres du personnel ne devront donc payer au guichet du percepteur QUE LA PART D'IMPOT RESTANT A LEUR CHARGE. Ainsi, quelqu'un étant remboursé en totalité par le CERN n'aura aucune démarche à faire.

2. Toute personne n'ayant pas, sur son avertissement, la mention "Impôt remboursable par le CERN" devra, dès que possible, prévenir Monsieur J.-F. Barthélemy / PE - Tél. 2855.

3. Afin d'éviter tout double paiement des impôts individuels, les fonctionnaires qui auraient déjà réglé la totalité de leur impôt sur les revenus de 1979 sont priés d'en aviser, par écrit, Monsieur Dewin - Bureau des Salaires / FI, dans les plus brefs délais.

J.-F. Barthélemy / Tél. 2855

SEMINARS SEMINAIRES

MONDAY 12 JANUARY

BEBC USERS' GROUP MEETING

at 13.45 hrs - Council Chamber

Agenda for the twenty-first Meeting :

1. Summary of Last Meeting.
2. Status Reports : SPSC, SPS, BEBC, IPF, BEAMS.
3. Neutrino Flux Monitoring (W. Venus).
4. Progress Report on (K^+p 110 GeV/c) Experiment WA 28 (F. Mandl).
5. Other Business.
6. Next Meeting.

ISR SEMINAR

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

"CESR : Performance and Beam Dynamics"

by R. Talman / Cornell

EP SEMINAR

at 17.00 hrs - Auditorium

"FASTBUS, a new data acquisition system for high energy physics experiments"

by H. Verweij / CERN-EP

Abstract : A new data acquisition system has been defined which will complement NIM and CAMAC in

many applications. It is well suited for the multi-element detectors that are being suggested for LEP experiments, as it provides for distributed parallel processing, high speed data transfer and flexible system architecture. The main characteristics and status of the project will be presented.

TUESDAY 13 JANUARY

CERN COLLOQUIUM

at 16.30 hrs - Auditorium

"The intellectual quadrangle Mach-Boltzmann-Planck-Einstein"

by E. Broda / Inst. für Physikalische Chemie der Uni. Wien

TUESDAY 13, WEDNESDAY 14 AND THURSDAY 15 JANUARY

SPS EXPERIMENTS COMMITTEE

- Open Session / Tuesday 13 January
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at 09.00 hrs - Auditorium

1. Introductory Remarks, by H. Schopper.
2. Status Report on the $\bar{p}p$ Collider (B. de Raad).
3. Upgrading of the West Area (C. Bovet).

- Closed Session / Wednesday 14 and Thursday 15
===== January

at 09.00 hrs - Sixth Floor Conference Room
(Administration Building).

WEDNESDAY 14 JANUARY

THEORETICAL SEMINAR

at 14.00 hrs - Theory Conference Room

"Spin Physics Today"

by M. Jacob / CERN

Abstract : Topical aspects of spin physics, as much debated at the time of the Lausanne Conference last Autumn, will be reviewed. After a rapid survey of general spin properties, the talk will focus on some recent results in hadron physics and on the possibilities offered by LEP and HERA.

CERN COMPUTER SEMINAR

at 16.00 hrs - Council Chamber *)

"Effective Man-Machine Communication:
Towards an Understanding of Principles"

by Jürg Nievergelt / Inst. für Informatik,
ETH, Zürich

Abstract : The development of interactive command languages is repeating, with a 20-year delay, the history of programming languages : it is gradually shifting from sizeable sets of unrelated individual commands to hierarchically structured collections of modes and submodes that satisfy certain general principles of consistency, while such principles are now widely accepted in the domain of programming languages, they are often unknown, ignored, or, at best, debated in the realm of interactive command languages. A list of 'design errors' common in existing systems illustrates this point. The observation of hundreds of users of interactive systems has shown that the most common difficulties experienced are expressed well by the following questions : Where am I ? What can I do here ? Where else can I go, and how do I get there ? A conceptual framework for the design of man-machine systems based on the notions of site, mode, and trail has been developed to allow the user to obtain at all times a convenient answer to these questions. A SITE is a neighbourhood in the file space, denoting the set of data directly accessible at a given moment; a MODE is the subset of commands active at a given moment; a TRAIL is a feasible sequence of pairs (site, mode) that can occur during a dialogue. Trails can be named, stored, edited and invoked (reused). An interactive system based on these concepts has been implemented.

*) Note : Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 15.30 hrs to meet the speaker and for informal discussions. Tea and coffee will be provided.

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium *)

"The $\bar{p}p$ Project at Fermilab"

by P. McIntyre / Fermilab and Texas A. & M.

Abstract : Fermilab is constructing a superconducting $\bar{p}p$ collider which shall provide 2000 GeV in the centre of mass at a luminosity

$L = 10^{30} \text{ cm}^{-2} \text{ sec}^{-1}$. Experimental results on studies on electron cooling are presented. An overview of the antiproton source is given. The scenario for achieving $\bar{p}p$ collisions in the Tevatron is evaluated and the time scale is discussed.

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THURSDAY 15 JANUARY

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium *)

"Quantitative Description of Heavy
Quark Systems"

by A. Martin / CERN

Abstract : The impressive success of potential models of 'new' particles is re-examined with the help of a simple, purely phenomenological, potential. It turns out to be possible to fit with great accuracy the spectra and relative leptonic widths of mesons made of b , c and even s quarks. Then a parameter-free calculation of the Σ^- mass by J.M. Richard is presented. Extensions to lighter quarks, and parallel work using other potentials will be discussed.

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MONDAY 19 JANUARY

ISR SEMINAR

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

"PEP : Performance and Beam Dynamics"

by J. Le Duff / Orsay

EP SEMINAR

at 17.00 hrs - Auditorium

"Some Recent Results from TASSO"

by P. Lecomte / Univ. of Wisconsin, Madison
and Fed. Ins. of Technology, Zürich

Abstract : TASSO (Two Arm Spectrometer SOlenoid) is an experimental setup operating now for two years at the DESY e^+e^- storage ring PETRA. Its main part is a central detector with a 0.5 Tesla axial magnetic field, concentric layers of proportional and drift chambers, time of flight counters and shower counters. Some physics results obtained during the last few months will be discussed. A unique feature of TASSO is the presence of two hadron arms providing almost complete particle identification over 20% of 4π steradian. The technical aspects and performances of Aerogel Cerenkov counters developed for this purpose will be described.

TUESDAY 20 JANUARY

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"Hadronic ψ Production"

by R. Raja / Fermilab and Tata Inst., Bombay

WEDNESDAY 21 JANUARY

SEMINAIRE PS

à 11h00 - Amphithéâtre PS (Bât.6)

"Les nouvelles normes de protection
radio-biologiques"

by J.-C. Zerbib / Saclay

ISR COMMITTEE

- Closed Session

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at 14.30 hrs - Sixth Floor Conference Room
(Administration Building)

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POUR INFORMATION / FOR INFORMATION
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VENDREDI 16 JANVIER

LAPP SEMINAR

at 10.30 hrs - LAPP Auditorium

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

"Spin-Spin Asymmetries in Hadro- and
Photo-Production of Heavy Quarkonia
Based on QCD"

by K. Hidaka / LPTHE, Orsay

Renseignements complémentaires auprès de :

H. Pessard/CERN-EP, Tél. 6526, ou Laboratoire
d'Annecy-le-Vieux, Tél. (023) 23.32.45, int. 327.

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

MONDAY 12 JANUARY

FRIDAY 16 JANUARY

ACADEMIC TRAINING

(Tel. 2844)

at 11.00 hrs - Auditorium

"New problems in neutrino physics"

by L. Maiani / Univ. of Rome

Abstract :

- Overview of deep inelastic neutrino scattering:
what have we learned from neutrinos.
- Prospects for observing higher order
electroweak effects.
- Dirac and Majorana massive neutrinos.
- Neutrino oscillations : present status and
future prospects.

en relation avec les applications. Dans la première partie, on décrit l'état cristallin et les liaisons chimiques. Sur ces bases, on examine ensuite le comportement mécanique des corps solides qui dépend de leur microstructure et de défauts caractéristiques. Les vibrations thermiques des cristaux et les phénomènes magnétiques sont examinés quant à leur importance pratique. La dernière partie du cours est consacrée aux propriétés électroniques des solides dont l'étude permet de décrire les isolateurs et les métaux et d'expliquer les propriétés électriques et optiques. On s'attache dans ce cours à présenter de façon phénoménologique la physique des matériaux en relation avec leur utilisation dans la pratique.

Leçon 1 : Mercredi 14 janvier

"Matériaux - Cristaux"

Leçon 2 : Vendredi 16 janvier

"Liaisons chimiques - Microstructures et défauts"

Leçons 3 et 4 : Mercredi 21 et vendredi 23 janvier.

MERCREDI 14 ET VENDREDI 16 JANVIER

ACADEMIC TRAINING

(Tel. 2844)

à 11h00 - Salle Théorie (Bât.4, 3 ét.)

"Physique des matériaux"

par F. Levy / EPF, Lausanne

Résumé : Les objectifs du cours de physique des matériaux sont d'acquies une vue d'ensemble sur les matériaux et sur leurs propriétés physiques

JANUARY 19, 21, 23, 26, 28, 30

FEBRUARY 2, 4, 5, 6

ACADEMIC TRAINING

(Tel. 2844)

at 11.00 hrs - Auditorium

"Group theories and applications"

by P. Sorba / LAPP, Annecy

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