

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

STAFF RULES AND REGULATIONS *Information sheets*

A list of Information Sheets in force as of :
1st October 1977 is available at your Division
Secretariat.

Personnel Division - Tel. 2855

STATUT ET REGLEMENT DU PERSONNEL *Fiches d'information*

Un état récapitulatif des fiches d'information
en service au 1er octobre 1977 est disponible auprès
de votre Secrétariat de Division.

Division du personnel - Tél. 2855

SEMINARS SEMINAIRES

MONDAY 17 OCTOBER

CERN NUCLEAR PHYSICS SEMINAR

at 16.00 hrs - Theory Conference Room
"Shifts in the energies of K X-rays.
Nuclear and atomic effects"

by P.G. Hansen / CERN and Aarhus Univ.

Abstract : Experiments with extremely high precision at ISOLDE have shown that the energies of K X-rays to a small extent depend on the excitation mechanism. As an example, the xenon $K_{\alpha 1}$ (29.8 keV) from electron-capture beta-decay (EC) of the isotope ^{131}Cs has an energy that is 112 ± 11 meV (milli-electronvolts) higher than that from ^{132}Cs , and likewise the gold $K_{\alpha 1}$ (68.8 keV) has 570 ± 30 meV more energy when it is produced in photo-ionization than when it is produced in EC of ^{197}Hg . These and other shifts represent the first observation of two effects : (i) shifts arising from the atomic 1s hyperfine structure and made observable by a beta-decay selection rule in the atomic F quantum number and (ii) outer shell excitations giving rise to unresolvable X-ray 'satellites'.

TUESDAY 18 OCTOBER

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hours - Auditorium

"The rise and fall of second class currents"

by V. Telegdi / E.T.H. Zürich

WEDNESDAY 19 OCTOBER

PRESENTATION TECHNIQUE

de 9h00 à 16h30 - Salle de conférence
Bât.17 - 1er étage - R1-007

La maison ICARE (F), spécialisée dans la détection des gaz, présente : explosimètres multi-directionnel type "Rack Modulaire", monodirectionnel type "MV7", portatif type "Portalarm", type "Minex 2" - analyseur de gaz à absorption infra-rouge type "Franix", analyseur photométrique type "Uvelux 521", toximètre type "Ionitrace 974".

Langue : français

Renseignements : M. Diraison / FI / 4585.

THEORETICAL SEMINAR

at 14.00 hours - Theory Conference Room

"Sobolev-Type estimates in quantum theory"

by H. Grosse / CERN

Abstract :

I. - *Physical motivation* : stability of atoms and matter.

II. - *Main results* :

- a) bounds on the number of bound states in a potential (for n dimensions),
- b) disproof of the nodal theorem in $n \geq 7$ dimensions.

To get the results, we found soliton-like solutions of coupled systems of non-linear ordinary differential equations.

DD SEMINAR

at 16.00 hours - DD Conference Room
(Bldg.31 - 3rd floor)

"A review of ERASME software"

by D.O. Williams / CERN

Abstract : For the first time, ERASME has brought together the power of a medium-speed computer and the precision and speed of a film-measuring device. Providing software to use this facility effectively was not simple since the obvious goal of 'full interaction' could not be attained initially owing to technical limitations. These limitations were gradually removed as the PDP-10 architecture changed, and both shared code and virtual memory capabilities became available. The talk will review this process and discuss the changes made in applications programs in order to take advantage of the interactive possibilities.

CERN ENERGY SEMINAR (TECHNICAL LEVEL)

at 16.30 hours - Theory Conference Room

"Energy systems and the logistic model"

by C. Marchetti / IIASA, Laxenburg

Abstract : Energy systems in their extreme complexity appear haphazard structures built slowly in time under the constraint of resources, the struggles of cartels and the whims of final consumers. A very simple method of analysis however, originally developed for studying the market behaviour of new technologies and products, shows a precise and stable underlying structure; permits a very economic description of the evolution of the systems in time; gives a solid base for forecasting future developments, and the effect on them of the measure we may possibly take.

THURSDAY 20 OCTOBER

PRESENTATION TECHNIQUE

de 10h00 à 16h00 - Bât.513 - R-043

La maison OLIVETTI Suisse SA, représentant OLIVETTI Italie, expose ses nouveautés :

- mini-ordinateur P6060 programmable en BASIC. Mémoire USER-RAM de 16-48 KB. 2 stations à disque souple de 256 KB. Imprimante thermique de 80 caract. permettant l'écriture et le dessin. Display de ligne.
- Mini-ordinateur portable P6040 programmable en BASIC, capacité de 3 KB USER-RAM, imprimante alphanumérique, display et mini-disque.
- Terminal TC480, équipé d'un clavier alphanumérique, transmettant d'après le code ISO 8 bit (CCITT No.5), asynchrone. Transmission de 75-1200 bauds. Imprimante de 30 caract./sec. Options : lecteur/perforateur de bande, unités à cassette, et mini-disque.

Langues : français, anglais, allemand.

Renseignements : M. Diraison / FI / 4585

CERN ENERGY SEMINAR (GENERAL LEVEL)

at 16.30 hours - Auditorium

"Deterministic features of the energy systems. What the planners can do"

by C. Marchetti / IIASA, Laxenburg

Abstract : Energy systems in their extreme complexity appear haphazard structures built slowly in time under the constraint of resources, the struggles of cartels and the whims of final consumers. A very simple method of analysis however, originally developed for studying the market behaviour of new technologies and products, shows a precise and stable underlying structure; permits a very economic description of the evolution of the systems in time; gives a solid base for forecasting future developments, and the effect on them of the measure we may possibly take.

VENDREDI 21 OCTOBRE

LA PHYSIQUE DES HAUTES ENERGIES POUR LES NON-SPECIALISTES

à 16h30 - Amphithéâtre

Premiers résultats au SPS

"L'expérience neutrino WA1"

par le Prof. L. Van Hove

MONDAY 24 OCTOBER

CERN NUCLEAR PHYSICS SEMINAR

at 16.00 hrs - Theory Conference Room

"Can there be a collapsed state of matter?"

by J. Rafelski / CERN

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

(Secrétariat : Tél. 2844)

JEUDI 20 OCTOBRE

ENSEIGNEMENT GENERAL

de 13h00 à 13h30 - Amphithéâtre

"Science pour Tous", par R. Carreras

Thème principal : Bombes atomiques artisanales : mythes et réalités.