

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 $64\text{ h }^{197}\text{Hg}$. 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.