

Les propositions du Comité des Affaires culturelles pour la période 1981-1982 ont été acceptées en principe, sous réserve de l'approbation du Directeur général.

La prochaine réunion se tiendra le mercredi 2 décembre 1981.

SEMINARS SEMINAIRES

Monday 16 November

HS SEMINAR

at 14.00 hrs - PS Auditorium
(Building 6)

'New dosimetry based on Hiroshima and Nagasaki A-bomb survivor data'

by William E. Loewe / Lawrence Livermore Lab.

Atom bomb survivor data constitute a major element of the considerations leading to international protection standards for nuclear radiations. In late August of 1980, Loewe and Mendelsohn at LLNL released a new free-field dosimetry for Hiroshima and Nagasaki. Both neutron and gamma kerma (dose) values were very substantially different from the accepted T65D values at ranges of interest to radiobiological studies of radiation effects. The new dosimetry will be presented, its basis and supporting evidence explained, and reaction to it by the dosimetric community discussed briefly.

EP SEMINAR

at 17.00 hrs - Auditorium

'Search for narrow proton-antiproton states produced for baryon exchange in negative pion-proton reactions at 16 GeV/c and in proton-antiproton reactions at 5 GeV/c'

by M. Winik / BNL

A high statistics study of the proton-antiproton system produced via baryon exchange in negative pion-proton and proton-antiproton reactions was performed with data obtained using a fast forward proton trigger at the BNL Multi-Particle Spectrometer. Results of this study will be presented and compared with results from other experiments.

Tuesday 17 November

PS AND SC COMMITTEE

I. OPEN SESSION

at 09.00 hrs - Council Chamber

1. Information from the Chairman.

2. Status Reports :
- LEAR (P. Lefevre).

3. New proposal :
Measurements of channelling radiation and its polarization, x-ray excitation, together with deviations from Landau distributions (Aarhus-CERN-Strasbourg; PSCC/81-79/P51; 81-80/S51; E. Uggerhoj).

II. CLOSED SESSION

at 14.30 hrs - Sixth Floor Conference Room

PRESENTATION TECHNIQUE

09h00/12h00 - Salle 2-027, Bât. 73

FAVRE et MATTIJS SA (CH), représentant SELFA (F) propose des robinets : - 1) pour gaz rares, cryogénie, vide primaire, air comprimé, eau : série RM, en laiton matricé soufflet Tombac, avec options actionneur pneumatique, rallonge cryogénique, fin de course, fixation tableau, raccords à souder à brides, taraudés; - 2) pour ultra-vide, gaz rares, cryogénie, technique nucléaire : série K, en inox ou laiton matricé soufflet inox, avec options ci-dessus sauf raccords (seulement à souder).

Langues : Allemand, anglais, français.

Renseignements : M. Diraison / FI / 4585.

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium *

'Photoproduction of charmed particles using the SLAC Hybrid Facility exposed to a backward scattered laser beam'

by George Kalmus / Rutherford Appleton Lab.

A large photoproduction experiment aimed at charmed particle production is presently in progress. More than 10^6 pictures in the SLAC 1 m hydrogen bubble chamber equipped with an extra high resolution camera have been obtained so far and analysed. Charmed particles have been directly observed. A description of the novel features of the experiment and results on the charm production cross-section and lifetimes will be given.

* : 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.

Wednesday 18 November

ISR COMMITTEE

I. OPEN SESSION

at 09.30 hrs - Council Chamber

1. Study of light ion interactions with the SFM detector;
J. Symons.

2. Light ion running for existing experiments :

- (a) Experiment R 110 – C. Von Gagnon
- (b) Experiment R 210 – D. Lloyd-Owen
- (c) Experiment R 211 – D. Favart
- (d) Experiment R 807 – S. Frankel

II. CLOSED SESSION

at 11.30 hrs - A + C Conference Room.

ISOLDE SEMINAR

at 10.30 hrs - SC Conference Room
(Building 26, Room 1-025)

‘Possibility of high resolution nuclear spectroscopy application to solve some problems of solid state physics’

by A.A. Klyuchnikov / Kiev

Using the classical measurement procedure for gamma-spectra and inner conversion electron spectra the following phenomena were studied : Ionization effect which accompanies the process of inner conversion at the atomic K-shell; gamma-ray resonance absorption effect with energy 46, 48 keV in tungsten 183 by magnetic beta-spectrometer; photoeffect on L-subshells of Au, W and Bi nuclei; positron annihilation effect in Cu and Br under different thermal processing; effect of nuclear excitation under the photonless positron annihilation.

THEORETICAL SEMINAR

at 14.00 hrs - Theory Conference Room

‘Light quark masses and QCD sum rules’

by E. de Rafael / CNRS, Marseille

We discuss QCD sum rules of the Laplace transform type which relate the current algebra quark masses m_u , m_d and m_s to low energy meson spectroscopy.

DD SEMINAR

at 16.00 hrs - DD Auditorium
(Building 31, 3rd floor)

‘Systems software of the new PS control system’

by B. Carpenter / PS

The new PS control system is being retro-fitted onto a fully operational accelerator complex with rapid and complex cycles. In addition to supporting the writing of temporary software, the system must also support the installation in concentrated bursts of stable real-time software written by professional software engineers. This seminar will describe the principles behind the system software to support this environment, will outline the resulting implementation, and comment on the results so far.

Thursday 19 November

CERN ENERGY SEMINAR

at 16.30 hrs - Auditorium *

‘The nuclear non-proliferation treaty : What is it? Can we understand it? Do we need it? What happens without it?’

by R. Wilson / Harvard Univ. and CERN

Ever since 1945 it has been clear that we can use nuclear fission for either or both peace and war. The non-proliferation treaty was designed to help ensure that as the peaceful nuclear technology spreads, nuclear bombs do not. There are many sophisticated trade-offs, which need some technical understanding. It is my contention that all physicists at CERN and similar laboratories have a duty to try to understand these issues and explain them to others; without world-wide support, no method of stopping proliferation of weapons is likely to succeed.

* : 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 20 November

ANTIPROTONS AT CERN

at 14.30 hrs - Auditorium

Antiproton - proton collisions have now taken place at the ISR and at the SPS. Initial operations and preliminary physics results will be presented.

Agenda :

1. Antiproton accumulation – R. Billinge
2. PS operations – A. Krusche
3. ISR storage – P. Bryant
4. ISR physics results – L. Camilleri
5. SPS storage – J. Gareyte
6. Physics results and status of UA experiments
P. Darriulat - G. Matthiae - C. Rubbia - J. Rushbrooke

Tuesday 24 November

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

‘The hunting of the axion’

by A. Zehnder / Lab. f. Kernphysik, ETH Zürich

POUR INFORMATION

Vendredi 20 Novembre

SEMINAIRE DU LAPP

à 10h30 - Amphithéâtre du LAPP

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

‘Premiers résultats de MARK II à PEP’

par Monique Werlen / Univ. de Genève

Présentation des résultats préliminaires concernant les états finaux hadroniques observés par le détecteur Mark II à PEP; en particulier, distributions inclusives de hadrons et violation de la loi d'échelle, analyse des jets et spin du gluon.

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

ENSEIGNEMENT GENERAL (Tél.2844)

Jeudi 19 Novembre

13h00/13h30 - Amphithéâtre
'Science pour Tous'
par R. Carreras

ACADEMIC TRAINING (Tel. 2844)

November 16, 17, 18

at 11.00 hrs - Auditorium
'Confinement for non-experts'
by W. Nahm / CERN

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

Friday 20 November

10.30 hrs/12.30 hrs - DD Auditorium
(Building 31, 3rd floor)
'Digital signal processing'
by M. Kunt / EPF, Lausanne
Lecture 5

24ème Cours de perfectionnement de l'Association
Vaudoise des Chercheurs en physique :

'Lasers et applications industrielles'

Date : 15 - 20 mars 1982

Pour tous renseignements, veuillez contacter :

M. Matthey, tél. (021) 35.70.71 ou C. Bonjour, tél.
61.31.01.

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

ON RECHERCHE...

La personne qui a emprunté le terminal Pericom,
No. de série 5047 du Bâtiment 582, R-017 est priée de :
- soit le remettre en place, soit contacter J. Siméoni,
Tél. 2375 pour récupérer le manuel d'utilisation. Ce
terminal ne subira plus de maintenance.

LOOKING FOR...

Would the person who removed the Pericom Termi-
nal, serial No. 5047 from Building 582, R-017 please
either put it back or contact J. Siméoni, Tel. 2375 for the
users' manual. This terminal will no longer be main-
tained.

POSTS VACANT

The Department of Physics at McGill University
expects to make one or two junior high energy theory
research appointments for the academic year 1982-83.
Send applications and three letters of recommendation to

Professor Bernard Margolis
Physics Department
McGill University
3600 University Street
Montreal, Quebec, Canada (H3A 2T8)

DIVERS

Si vous avez des catalogues TTL à jeter, envoyez-
les à G. Amato - EF, pour un don au Laboratoire Elec-
tronique des Cours Industriels du Soir à Genève.
D'avance, merci!

COLLECTION DE CATALOGUES DES FOURNISSEURS

A partir du 16 novembre 1981, la collection de cata-
logues des fournisseurs du Service des Achats (M. Di-
raison - Bât.73/1-007) sera intégrée dans la documenta-
tion de la Section Technique du Service des Magasins
(M. Lyonne - Bât.73/R-001 - Tél. 4249).

Services d'Approvisionnement
Division des Finances