

SEMINARS SEMINAIRES

MONDAY 21 APRIL

EP SEMINAR

at 17.00 hrs - Auditorium

"Experimental Detection of Vacuum Polarization Effects on a Laser Beam Propagating into a Magnetic Field"

by E. Iacopini / CERN

Abstract : We discuss the results of the tests done in the last year at CERN, to study the feasibility of an experiment planned in order to observe the violation of the linearity in the Maxwell equations, due to the QED vacuum polarization.

TUESDAY 22 APRIL

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium (*)

"Relativistic Nuclear Collisions"

by A.M. Poskanzer / LBL & CERN

Abstract : The programme of central collisions of relativistic nuclei which is being conducted at the Berkeley BEVALAC is reviewed. Compression and the possibility of reaching abnormal states of nuclear matter are discussed in terms of several models. Hints in the present experimental data are described. Future experiments and a proposed accelerator are mentioned.

(*) *Note* : 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 23 APRIL

THEORETICAL SEMINAR

at 14.00 hrs - Theory Conference Room

"All you ever wanted to know about the infra-red problem in QED (*)"

*) but never bothered to ask.

by D. Zwanziger / CERN and New York Univ.

Abstract : A review of our present understanding of the infra-red problem in QED including a report of a recent calculation of the energy momentum spectral function of coherent states.

DD SEMINAR

at 16.00 hrs - DD Auditorium
(Bldg.31 - 3rd floor)

"User Support via the Computer"

by B. Pollermann / CERN

Abstract : Help given by people is usually preferable to any machine-based system. For non-standard problems this help - given by User Support

and many other colleagues all over the site - is even essential, if only because having a human around is better than facing an unfeeling machine. On the other hand, there are many tiny questions or even complex (but standard) problems which may be solved via the computer. A HELP mode has been developed which tries - in conjunction with utilities and computer based documentation - to provide help for these cases. The HELP mode - entirely based on WYLBUR/IBM - will be described as it exists now. A short sketch of its history and a comparison with other kinds of HELP modes (including the "ideal one") is given. If there are enough criticisms and suggestions from the audience, future development may be discussed.

JEUDI 24 AVRIL

CERN ENERGY SEMINAR - Niveau Général

à 16h30 - Amphithéâtre (*)

"L'actualité dans la sûreté nucléaire"

par A. Gauvenet / C.E.A., Paris

Résumé :

1. La sûreté nucléaire un an après Three Mile Island :

- déroulement de l'accident,
- Rasmussen s'est-il trompé ?
- le bon usage des méthodes probabilistes,
- les procédures,
- la fiabilité humaine et la formation des hommes (ce sujet sera traité plus en détail dans un séminaire ultérieur),
- principales conclusions et conséquences.

2. Les déchets nucléaires sont-ils le maillon faible du cycle ?

(*) *Note* : Les personnes qui ont l'intention de suivre ce séminaire sont cordialement invitées à la Salle des Pas Perdus (face à la Salle du Conseil) à 16h00 pour rencontrer et discuter avec l'orateur. Thé et café seront servis.

FRIDAY 25 APRIL

SPECIAL CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium (*)

"Tests of Grand Unified Theories"

by J. Ellis / CERN

Abstract : Grand unified theories of strong, weak and electromagnetic interactions will be discussed with emphasis on the general principles and phenomenological consequences of simple models. Application to the calculation of $\sin^2\theta_w$ and the masses of the bottom and other charge $-\frac{1}{3}$ quarks will be described. Predictions of the minimal SU(5) model for the proton decay rate and branching ratios will be presented. Speculations will be made about the mass of the Higgs boson (~ 10 to 11 GeV) and neutrino masses (10^{-5} to 1 eV) and oscillations.

(*) *Note* : 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.

MONDAY 28 APRIL

EP SEMINAR

at 17.00 hrs - Auditorium
"First Results from the LEBC/EHS Bubble
Chamber Charm Experiments NA13 and NA16"
by S. Reucroft / CERN

MARDI 29 AVRIL

CERN COLLOQUIUM

à 16h30 - Amphithéâtre
"Application des nouvelles recommandations
de la Commission Internationale de Protec-
tion Radiologique (CIPR)"
par H. Jammet / Dépt. de Protection, Centre
d'études nucléaires, Fontenay-aux-Roses

MERCREDI 30 AVRIL

SEMINAIRE PS

à 11h00 - Amphithéâtre PS (Bât.6)
"Le PS et le SPS comme injecteurs du LEP?"
par Y. Baconnier / CERN

CERN ENERGY SEMINAR - Niveau Technique

à 16h30 - Salle de la Théorie
"Cellules photovoltaïques - nouvelles
techniques"
par P. Baude / Système Baude S.A. - Recherche
et développement de technologies pour
l'énergie solaire, Genève

ENERGY SEMINAR

During the Energy Seminars presented on
January 16/17, 1980 by Mr. K. Küffer, Director
of the Swiss Nuclear Power Station at Beznau,
those interested were invited to a visit of
this installation. This visit is foreseen to
take place on

SATURDAY 10 MAY

with a bus leaving CERN around 7.00 in the
morning. Participation is limited to 50 per-
sons. Transportation cost is estimated to be
between 32.-SFr. (50 participants) to 50.-SFr.
(30 participants). Lunch may be obtained at
the Beznau Cafeteria. Would interested per-
sons please fill in the slip below and return
it before Friday, April 25 to R. Budde / EF.



I wish to participate in the visit to the Beznau
Nuclear Power Station on Saturday, May 10 and
I shall travel with the group by bus.

NAME _____

Division _____ Tel. _____

(Return to R. Budde / EF before Friday 25 April.)

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POUR INFORMATION / FOR INFORMATION

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MARDI 22 AVRIL

PRESENTATION TECHNIQUE

09h00/12h00 - Ecole de Chimie, Science II
30 Quai E. Ansermet, Genève
Salle 17 - 1er étage

INSTRUMATIC SA (CH), représentant OXFORD INSTRU-
MENTS (UK) fabricant de systèmes cryogéniques
et cryomagnétiques, organise, avec les spécia-
listes en cryogénie d'Oxford, un séminaire sur
la cryogénie et sa technique.

Langue : Anglais.

Renseignements : M. Diraison / FI / 4585.

VENDREDI 25 AVRIL

SEMINAIRES DU LAPP

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

1. à 10h30 - Amphithéâtre du LAPP

"Le faisceau de protons polarisés à FNAL
et l'étude des effets de spin à très
haute énergie"

par A. Penzo / LAPP

Résumé : *Présentation du projet d'expérience sur
faisceau polarisé à Fermilab où collabore le
LAPP. Discussion du programme de physique.*

2. à 14h00 - Amphithéâtre du LAPP

"Proposition pour une expérience de spec-
troscopie du charmonium utilisant un fais-
ceau d'antiprotons et un jet d'hydrogène
moléculaire aux ISR"

par M. Poulet / LAPP

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

JEUDI 24 AVRIL

ENSEIGNEMENT GENERAL

13h00/13h30 - Amphithéâtre

"Science pour Tous"

par R. Carreras