

SEMINARS SEMINAIRES

MONDAY 27 NOVEMBER

JOINT NUCLEAR & PARTICLE PHYSICS SEMINAR

at 11.00 hrs - TH Conference Room

"Bootstrap approach to the nuclear matter problem"

by R. Hagedorn/CERN

Abstract : We propose a self-consistent description of nuclear matter by means of a generalized version of hadron statistical bootstrap. Included are the following features :

- baryon number conservation
- clustering of nucleons
- nucleon and cluster excitation
- extensivity of nuclear matter
- coexistence with a pion gas
- baryon-antibaryon creation and annihilation
- 'chemical' equilibrium

BEBC USERS' GROUP MEETING - twelfth meeting

at 13.45 hrs - Council Room
Administration building

Agenda :

1. Progress reports : SPSC, SPS, BEBC, Beams, EMI, EPI, GGM.
2. Report on the status of the 15' FNAL bubble runs.
3. EMI improvement : extension of inner plane.
4. Overview of the neutrino workshop meeting at CERN.
5. Status reports : WA 31, WA 21.

ISR SEMINAR

at 14.30 hrs - ISR Auditorium
(top floor of building 30)

"The efficiency of acceleration by phase displacement in the presence of noise"

by S. Myers/CERN

Abstract : During acceleration of a coasting beam displacement individual particles follow trajectories around the exterior of the RF bucket. The equations of motion in longitudinal phase space are highly non-linear. Using this technique the reduction in the efficiency of phase displacement acceleration produced by RF 'noise' (i.e. frequency modulation) has been computed numerically. The rate of increase in the momentum width of the coasting beam and the intensity losses are shown to be strongly dependent on the amplitude and frequency of the injected 'noise'. The commonly used expression for the rate of momentum blow-up is also found to be valid only in the case of a perfect RF system. Extensive experimentation has verified the computed results to a reasonable degree of accuracy, but with a few exceptions.

TUESDAY 28 NOVEMBER

SPS EXPERIMENTS COMMITTEE - fifty-ninth meeting

at 9.00 hrs - please note time -
Auditorium

OPEN SESSION

Agenda :

1. Status report on NA3 (hadronic production of high P_T leptons and hadrons; J. Boucrot).
2. The measurement of elastic scattering and of the total cross section in the CERN $\bar{p}p$ collider (Amsterdam-CERN-Genova-Napoli-Pisa collaboration; G. Matthiae; SPSC/78-105/P 114).
3. Proposal to search for new particles (CERN-LAPP-MIT-NIKHEF collaboration; S. Ting; SPSC/78-130/P 119).
4. Memorandum on P 93 (CERN-Saclay-Orsay-Pavia collaboration; L. di Lella; SPSC/78-133/M 141).

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium *

"Diquarks even inside the nucleon ?"

by R.T. Van de Walle/University of Nijmegen

Abstract : Diquarks have recently been (re)-introduced as building blocks of exotic states e.g. baryonium. There is now however evidence that even ground state non-exotic three quark states show diquark-clustering. Using the data of the large Amsterdam-CERN-Nijmegen-Oxford K^+p 4.2 GeV/c data as a 'cornerstone', it will be shown that some long-standing static $SU(6)$ problems and some 75 discrepancies with dynamic $SU(6)$ in quasi-two-body reactions are all explained (without spoiling the known $SU(6)$ successes) by the assumption that the baryons in general (and the ground state nucleons in particular) are diquark-quark bound states.

(*) 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 29 NOVEMBER

SPS EXPERIMENTS COMMITTEE - fifty ninth-meeting

at 9.00 hrs - Administration building
6th floor - conference Room

CLOSED SESSION

THEORETICAL SEMINAR

at 14.00 hrs - TH Conference Room

"Gauge theories and strong gravity"

by S. Fubini/CERN

THURSDAY 30 NOVEMBER

TWENTY-FOURTH PLENARY ECFA MEETING

at 9.00 hrs - Council Chamber

Agenda :

1. Adoption of the agenda.
2. Approval of the draft minutes of the twenty-third plenary meeting.
3. Chairman's report.
4. Starting-up of PETRA (H. Schopper)
5. Reports on the LEP Summer Study
 - machine (E. Keil)
 - Experiments and detectors (K. Winter).
6. Progress of the ECFA working groups (J. Mulvey and A. Zichichi).
7. Report on the ICFA workshop at Batavia (A.N. Diddens).
8. The UNK project in the Soviet Union (Speaker to be announced).
9. Next ECFA meeting.
10. Other business.

PRESENTATION TECHNIQUE

de 9h30 à 16h30 - Salle No 2-027
Bâtiment H/G-1 plan CERN

La maison HENRY BENZ (CH) présente les matériels suivants : ARGUS INTERNATIONAL (USA), équipement à surfusion pour 'thick film application' - INGO-CHEMIE GmbH (D), INGOPUR produit de nettoyage, de dégraissage et de désoxydation de circuits imprimés - VILEDA (D), toile pour rouleaux essoreurs - R. MARCHAND & Cie SA (CH), toutes les nouveautés de pinces et pannes à souder PLATO - H. STRECKFUSS KG (D), dispositifs spéciaux pour couper et cambrer des composants axiaux et radiaux avec "snap-in" - MAHLO GmbH (D), chambres d'essai thermiques pour l'examen des circuits imprimés.

Renseignements : M. Diraison/FI/4585
Langues : allemand, anglais, français

ESO ASTROPHYSICS SEMINAR

at 14.00 hrs - DD Conference Room
Bldg 31 - 3rd floor

"Observations of OH/IR stars halfway through the galactic disk"

by H.J. Habing/Leiden

Abstract : Very cool giant and supergiant stars show maser emission in microwave lines of OH, H₂O and SiO. The OH emission is especially strong in a line at 1612 MHz (18 cm) and it is possible to detect the stars with radio telescopes at distances up to the galactic centre, unimpeded by the interstellar dust. Several surveys have been completed in recent years and some 150 stars have been discovered. I will discuss the overall distribution of the stars in the galaxy and their kinematic properties. Some speculation will be added on the stage of evolution of the stars.

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium *

"Muon pair production at the ISR"

by S. Ting/MIT and CERN

Abstract : We present the status of an experiment at ISR to study muon pair production in the mass region $\leq 30 \text{ GeV}/c^2$ at $\sqrt{s} = 52 \text{ GeV}/c^2$ and $\sqrt{s} = 62 \text{ GeV}/c^2$.

(*) 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.

*** Please note date ***

VENDREDI 1 DECEMBRE

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POUR INFORMATION / FOR INFORMATION

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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)

"La physique auprès de l'accélérateur linéaire de Saclay"

par A. Bussi re/LAPP

R sum  : Des exp riences utilisant les faisceaux d' lectrons, de photons, de pions et de muons de l'acc l rateur lin aire de 600 MeV de Saclay, seront pr sent es dans les domaines de la physique nucl aire et de la physique des particules.

Renseignements compl mentaires aupr s de
H. Pessard/CERN-EP, t l. 6526 ou Laboratoire
d'Annecy-le-Vieux, t l. (023) 23.32.45, int. 327.

TUESDAY 5 DECEMBER

EXPOSE TRAITANT DES PROBLEMES DE CORROSION DANS LES CIRCUITS DE REFROIDISSEMENT D'AIMANTS

  15h00 - Salle du Conseil

par F. Perdieu/Attach  scientifique aux
Ateliers Centraux de la Division SB, assis-
tant au Laboratoire d' lectrochimie,
Katholieke Universiteit, Leuven, Belgique

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"Where do quarks come from ?"

by G.F. Chew/CERN

WEDNESDAY 6 DECEMBER

CERN ENERGY SEMINAR - technical level

at 16.30 hrs - TH Conference Room

"The physics of energy conversions and energy use"

by K.-E. Eriksson/Institute of Theoretical Physics, University of Gothenburg

THURSDAY 7 DECEMBER

CERN COLLOQUIUM

at 16.30 hrs - Auditorium

"Synergetics, nonequilibrium phase transitions and selforganization"

by H. Haken/Institut für Th. Physik der Universität Stuttgart

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

JEUDI 30 NOVEMBRE

ENSEIGNEMENT GENERAL

de 13h00 à 13h30 - Amphithéâtre

"Science pour tous"

par R. Carreras/CERN

WEDNESDAY 29 NOVEMBER,

FRIDAY 1 DECEMBER

ACADEMIC TRAINING

at 11.00 hrs - Auditorium

"Phenomenology of weak interactions"

by M.K. Gaillard/University of Paris XI

Lectures 3 & 4

4, 5, 6, 7 et 8 DECEMBRE

ACADEMIC TRAINING

à 11h00 - Amphithéâtre

"Techniques et expérimentations à très basse température (au dessous de 1°K)"

par G. Schumacher/CNRS, Grenoble

Pour le résumé, voir le Bulletin de la semaine prochaine ainsi que les affiches.

INFORMATIONS

GENERALES

GENERAL INFORMATION

POLLUTION DES EAUX PAR LES HYDROCARBURES

le 29 novembre 1978 à 9h30

Salle du Conseil,
Bâtiment de l'Administration

Une conférence avec film sera donnée sur la lutte contre la pollution des eaux des rivières, des lacs et des mers par les hydrocarbures, à l'aide des barrages flottants.

La conférence sera donnée par Monsieur David MELLOR de Gamien Europe S.A., Paris.

Langue : français, mais les questions en anglais seront également les bienvenues.

Groupe Activités Divisionnaires
Division HS

OIL CONTAMINATION OF WATER

29 November 1978 at 9.30 hrs

Council Chamber
Administration Building

A talk illustrated by a film on the limiting of oil contamination of rivers, lakes and sea, by means of floating oil booms.

The talk and film will be presented in French by Mr David MELLOR of Gamien Europe S.A., Paris. Questions may be asked in English. Everyone welcome.

Divisional Activities Group
HS Division

CONCERT DU CERN *** Dernier rappel ***

C'est par un ensemble de grande renommée que débutera le vendredi 1er décembre cette nouvelle saison musicale. Ce concert, organisé en collaboration avec la Radio Suisse Romande, nous permettra d'apprécier les qualités de l'Orchestre de Chambre de Mayence qui a acquis depuis longtemps une audience dont témoignent aussi bien les critiques louangeuses obtenues dans de nombreux pays que l'abondante discographie existant à ce jour.

Le programme comprendra :

G.Fr. Haendel Concerto Grosso op. 6, No 4
en la min.

W.Fr. Bach Adagio et Fugue en ré min.

J.S. Bach Concerto Brandebourgeois No 4

G.Ph. Telemann Suite pour flûte à bec en la min.

W.A. Mozart Serenata Notturna KV 239

Entrée : Frs. 8.-, abonnement aux 5 concerts : Frs. 35.- (il ne vous reste plus que quelques jours pour le commander).

Les concerts débuteront tous à 20h00 - Auditorium

Renseignements : G. Adam/SPS/4813