

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

ADJOINTS AUX CHEFS DE DIVISION POUR 1979

Sur proposition des Chefs de Division, les
Directeurs généraux ont nommé comme Adjoints
aux Chefs de Division pour 1979, les membres du
personnel suivants :

Division EP	D.C. Cundy
Division EF	H.-P. Reinhard
Division DD	D. Lord
Division TH	J. Ellis
Division PS	G. Plass (général)
	P.H. Standley (SC)

Division ISR	L. Resegotti
Division SPS	B. de Raad
Division HS	K. Goebel
Division FI	M. Lazanski
Division SB	R. Magny
Division PE	F. Niemann

SEMINARS SEMINAIRES

MONDAY 15 JANUARY

CERN NUCLEAR PHYSICS SEMINAR

at 11.00 hrs - TH Conference Room

"Shedding (laser) light on exotic nuclei"

by R. Klapisch/Laboratoire René Bernas,
Orsay

Abstract : The hyperfine structure and isotope shift of a wide span of isotopes of Na, Rb and Cs produced at the PS or at ISOLDE has been measured using the Doppler-free interaction of an atomic beam and a tunable dye laser. The spin, magnetic moments, quadrupole moments and variations in mean square radii that are thus determined bring new information on nuclear deformation in different regions of the nuclear chart.

TUESDAY 16 JANUARY

SPS EXPERIMENTS COMMITTEE

OPEN_SESSION - sixty-first meeting

at 9.00 hrs - Auditorium

A g e n d a

1. Introductory remarks by L. Van Hove.
2. Status report on WA 7 (two-body reactions at large p^A ; M. Poulet).
3. Measurement of nucléon structure functions in horn focused V and $\bar{V}$ beams in BEBC filled with neon (Aachen-Bonn-CERN-London-Oxford-Saclay collaboration; B. Tallini; SPSC/78-137/P 121).

4. Measurement of charged current cross sections and structure functions using BEBC and a bare target neutrino beam (Bari-Birmingham-Brussels-Ecole Polytechnique-Rutherford-Saclay collaboration; W. Venus; SPSC/78-155/P 123).
5. Low energy narrow band running (CERN-Dortmund-Heidelberg-Saclay (WA 1) collaboration; H. Wahl; SPSC/78-157/M 145).

2L2SED_SESSION

at 11.00 hrs - in rooms A + C + D
1st floor, Administration building

CERN COLLOQUIUM

at 16.30 hrs - Auditorium *

"Nuclear fusion reactions in dense stellar matter"

by B. Jancovici/Orsay

Abstract : The rate of nuclear fusion reactions in dense stellar matter is enhanced by a substantial screening due to Coulomb repulsion, which can be understood as a tunneling due to many body quantum effects. This enhancement is very important for astrophysics. The calculation of the enhancement factor will be discussed as a problem of the statistical mechanics of a weak quantum plasma.

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.

WEDNESDAY 17 JANUARY

PROTON SYNCHROTRON AND SYNCHRO-CYCLOTRON COMMITTEE

OPEN_SESSION - third meeting

at 9.00 hrs - Council Room

A g e n d a

1. Introductory remarks by L. Van Hove.

2. Status reports

- SC operation in 1978 (H. Ravn)
- SC 66 Omicron running-in (Amsterdam, NIKHEF-Birmingham-CERN-Ljubljana-Oxford-Torino; E.Michaelis)
- SC 73 7T backward scattering on nuclei (Amsterdam, NIKHEF-Birmingham-CERN-Ljubljana-Oxford-Torino; PSCC/78-38/M16; G. Dellacasa)
- SC 77 Determination of the branching ratio for the decay $T^0 \rightarrow e^+e^-$ (Amsterdam, NIKHEF, Birmingham-Cagliari-CERN-Ljubljana-Oxford-Torino; PSCC/78-37/M15; J.D. Davies)
- SC 63 Elastic scattering of yp and yd muonic atoms against protons and deuterons (Bologna and INFN; PSCC/78-27/M11; A. Bertin)
- PS operation in 1978 (J.-M. Perreau)
- PS beam layout in 1979 (L. Hoffmann).

3* New proposals :

- Use of carbon-12 projectiles at energies up to 86 MeV/N for studying the dissipative phenomena in nuclear collisions, Groupe de Chimie Nucléaire, IPN, Orsay (PSCC/78-32/P5; 78-33/S5) presented by R. Bimbot.
- Element distribution and multiplicity of heavy fragments, Darmstadt (GSI)-Heidelberg collaboration (PSCC/78-34/P6; 78-35/S6) presented by H. Sann.

CL9§52_SESSION

at 14.30 hrs - 6th floor Conference Room

THEORETICAL SEMINAR

at 14.00 hrs - TH Conference Room

"Confinement and chiral symmetry breaking in the 'SU(n)' non-linear σ model with quarks"

by P. Di Vecchia/CERN

Abstract : We study the low energy physics of quarks in two dimensions, which are minimally coupled to the fields of the 'SU(n)' non-linear σ model. Within the $1/n$ expansion we show that heavy quarks are confined, that the $U(1)_J$ chiral symmetry is spontaneously broken and that a light isoscalar pseudoscalar boson is avoided via the axial anomaly.

THURSDAY 18 JANUARY

PRESENTATION TECHNIQUE

09h00 - 12h00 / 14h00 - 16h30

Bât 513, R-042, G-3 nouveau plan CERN

KONTRON ELECTRONIC (CH) propose la démonstration de nouveaux terminaux TEXAS INSTRUMENTS (USA) : TI 763/765 avec mémoire à bulle non volatile de 20-, 40-, 60- ou 80'000 caractères -

TI 770 intelligent programmable avec cassette ou floppy disc, imprimante thermique, visualisation, accouplé à une imprimante à matrice TI 810 (150 car./s) - TI 820 conversationnel (NTI 810 + clavier).

Langues : allemand, anglais, français

Renseignements : M. Diraison/FI/4585

ESQ ASTROPHYSICS SEMINAR

at 14.00 hrs - DD Conference Room - Bldg 31 - third floor

"About the dynamical analysis of clusters of galaxies"

by D. Gerbal/Groupe astrophysique relativiste, Observatoire de Meudon

Abstract : Obviously clusters of galaxies are not yet in the 'violent' relaxation stage. Clusters are more or less luminosity segregated. Therefore the Emden sphere is not adequate for the dynamical analysis. Then we have built free relaxed multi-component Emden sphere models. Tentative analysis using these models are presented.

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium *

"The new astronomical evidence for the existence of gravitational waves"

by G. Cocconi/CERN

Abstract : The main news at the ninth Texas symposium on relativistic astrophysics (Munich, Dec. 78, 1978) was the demonstration that the binary system PSR 1913 + 16 radiates gravitational waves as predicted by general relativity. An elementary description of the phenomena involved will be given, as well as conjecture about their influence on the future trends of fundamental research.

(*) 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.

VENDREDI 19 JANVIER

POUR INFORMATION / FOR INFORMATION

SEMINAIRE DU LAPP

à 10h30 - Amphitheatre du LAPP

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

"Essais de QCD dans la diffusion lepton-hadron"

par G. Girardi/LAPP

Résumé : Dans le cadre de QCD, on étudie les distributions en sphéricité et en 'thrust' de la gerbe hadronique en leptoproduction.

Renseignements complémentaires auprès de H. Pessard/CERN-EP, tél. 6526 ou Laboratoire d'Annecy-le-Vieux, tél. (023) 23.32.45, int. 327.

TUESDAY 23 JANUARY

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"Partem distributions in the nucléon"

by K. Gaemers/NIKHEF - H, Amsterdam

THURSDAY 25 JANUARY

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"Measurement of the nucléon structure functions in high energy charged current neutrino interactions and their comparison with QCD predictions"

by F. Eisele/University of Dortmund

TRAINING AND *EDUCATION* *ENSEIGNEMENT*

WEDNESDAY 17,

THURSDAY 18 JANUARY

ACADEMIC TRAINING

at 11.00 hrs - Auditorium

"QCD for those who want to learn it seriously"

by C. Sachradja/CERN

Lectures 1 & 2

Abstract : At last we have a candidate Quantum Field Theory of the strong interactions, viz. Quantum Chromodynamics (QCD), It is of course imperative to check as many of its -predictions as possiblej and in these lectures I will review what the predictions of QCD are, and outline briefly the necessary ingredients to arrive at these predictions. In particular we will study the applications of QCD to hard scattering processes such as : deep inelastic lepton-hadron scattering, the production of massive lepton-pairs in hadronic collisions, the production of particles and jets with large transverse momenta in hadronic collisions, etc.

JEUDI 18 JANVIER

ENSEIGNEMENT GENERAL

13h00 - 13h30 - Auditorium

"Science pour tous"

par R. Carreras/CERN

JANUARY 23,24 and 25

ACADEMIC TRAINING

at 11.00 hrs - Auditorium

"QCD for those who want to learn it seriously"

by C. Sachradja/CERN

lectures 3, 4 & 5

ENSEIGNEMENT TECHNIQUE

COURS POUR LE PERSONNEL ADMINISTRATIF

Le Service de l'Enseignement rappelle qu'un cours "ELEMENTS DE STATISTIQUES" destiné spécialement au personnel administratif, aura lieu dès la fin janvier. Ce cours peut encore accueillir quelques personnes.

Durée et horaire : 11 séances, le jeudi de 11h00 à 14h00. Le repas, pris en commun, sera consacré à une discussion informelle de la matière du cours.

Le programme détaillé ainsi que les informations sur la procédure d'inscription, peuvent être obtenus chez Melle Duval, Secrétariat de l'Enseignement Technique - tél. 4460.

Délai pour les inscriptions : 15 JANVIER 1979

INFORMATIONS

GENERALES

GENERAL INFORMATION

UN PHENOMENE DE MEMOIRE

Hans Eberstark (BIT) essaiera le samedi 20 janvier au CERN, de reproduire de mémoire au moins 6000 chiffres après la virgule de pi afin de devenir champion du monde au "Guinness Book of Records" - suite à un pari avec moi. Wim Klein sera probablement présent lors de cet événement. Si vous désirez être témoins officiels, veuillez me contacter.

Henk Wind/EP

A MEMORY WIZARD

Hans Eberstark (ILO) will try to correctly reproduce from memory 6000 (at least) decimals of pi to get an entry in the 'Guinness Book of Records' and also to win a wager with me. Wim Klein will probably also be present at this event on Saturday, January 20th, at CERN. If you are willing to be a witness, kindly contact me.

Henk Wind/EP