

JEUDI 14 JUIN

ENSEIGNEMENT GENERAL

de 13.00 à 13.h30 - Amphithéâtre
"Science pour Tous"
par R. Carreras

TUESDAY 19 JUNE

ENSEIGNEMENT TECHNIQUE

ATELIERS DE MATHEMATIQUES

à 16h30 - Baraque 589
(plan CERN Fl)

Les enseignants et le Service de l'Enseignement organisent une projection publique d'un montage vidéo tourné pendant une séance de travail des Ateliers de Mathématiques.

A l'issue de cette présentation, les enseignants répondront aux questions que pourrait susciter cette pédagogie.

Toutes les personnes intéressées seront les bienvenues.

MONDAY 18, TUESDAY 19, WEDNESDAY 20, THURSDAY 21, FRIDAY 22 JUNE

ACADEMIC TRAINING

at 11.00 hrs - Auditorium
"An introduction to quantum mechanics"
by J.S. Bell/CERN

For abstract^ see next week's Bulletin and notices.

SEMINARS SEMINAIRES

MONDAY 11 JUNE

CERN NUCLEAR PHYSICS SEMINAR

at 11.00 hrs - Theory Conference Room
"Vector and tensor polarization induced in proton-deuteron elastic scattering with 3.4 - 1.9 GeV/c deuteron beams"
by G. Igo / UCLA

Abstract: In intermediate energy physics, new phenomena have been found in N-N scattering which may be associated with dibaryon structure near 1.5 GeV/c in N-N scattering. In this connection, there is a concerted effort to measure all five of the components of the N-N amplitudes in this region. We are studying one aspect of the three-body problem, p-d elastic scattering, in order to ascertain how well the three-body problem can be described in terms of N-N amplitudes measured in N-N collisions. We find the induced p-d tensor and vector

polarizations are quite sensitive to the double spin flip parts of the nucleon-nucleon amplitude. We will describe experimental measurements of these quantities and their interpretation in terms of a multiple scattering model.

ESQ ASTROPHYSICS SEMINAR

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

"The relation between HI and HII in the Giant HII Complexes of M101, and implications for star formation"

by R.J. Allen, Groningen

Abstract: A report will be given of recent work by Viallefond, Goss and the speaker on the analysis of the HI distribution and kinematics in several giant HII complexes of M101 from WSRT observations, and the results compared with Ha observations from Marseille. A variety of HI-HII morphology is found, with the cases where the HI and HII peak together being perhaps the most puzzling. Several correlations of derived properties with radial distance from the center of M101 will be presented. Finally, some new results on the enigmatic "hydrogen holes" in M101 will be discussed.

ISR SEMINAR

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

"Free Electron Lasers"

by C. Pellegrini / BNL

EP SEMINAR

at 17.00 hrs - Auditorium
"The HYBUC Sigma Magnetic Moment Experiment"
by R. Settles - MPI, Munich and CERN

Abstract: We report on the final result of a precision measurement to $\pm 0,15$ n.m. of the Sigma magnetic moment using the hyperon bubble chamber HYBUC. HYBUC is a hydrogen bubble chamber with 11.5 T superconducting magnet, which was built for this experiment by the Max-Planck Institut für Physik and Vanderbilt University. The apparatus and analysis are described, and the final result is compared with quark model predictions.

TUESDAY 12 JUNE

PRESENTATION TECHNIQUE

de 09.00 h à 16.30 h - Bus de démonstration
(Parking PTT, Bât. 63, C2 site de Meyrin)

C. NICHTAWITZ (CH), représentant SPRECHER & SCHUH (CH), expose du matériel électrique B.T. : disjoncteurs 100 à 3150 A (compacts, ouverts, sélectifs, temps d'échelonnement courts) - appareils de commande et de signalisation 4000 - contacteurs série 1 (10 à 1250 A), série 3 - relais temporisés électroniques RZ2 - boîtiers EK-KN.

Langues : allemand, français.

ÇEB^ÊiBfE^niÊ : ** Diraison / FI / 4585.

WEDNESDAY 13 JUNE

DP SEMINAR

at 14.00 hrs - DD Conference Room
(Building 31, third floor)

"The UNIX operating system"

by H.-J. Thomassen / Science Faculty,
Nijmegen

Abstract : UNIX is an unusual operating system for PDP-11 s originally developed at Bell Telephone Laboratories.

Two features make UNIX systems very popular:
- ease of use
- powerful text processing capabilities.

UNIX systems are widely used for educational purposes^ and more and more books and scientific periodicals are being typeset on UNIX systems. The seminar will give an overview of the UNIX operating system on PDP-11 s and VAX-11s.

THURSDAY 14 JUNE

PRESENTATION TECHNIQUE

à 14.00 h - Salle de Conference MAG
(Bât. 73 - 2-027, El site de Meyrin)

CARL MAIER & Cie SA (CH) propose un exposé d'une demi-heure environ sur les disjoncteurs B.T. à haute puissance, type QL.

Langue : français.

^EBÊÊÎBÊÎB\$2î^ M* Piraison / FI / 4585.

PRESENTATION TECHNIQUE

de 14.00 h à 16.00 h - Bus de démonstration
(Parking PTT, Bât. 63, C2 site de Meyrin)

VAPOR AG (CH), représentant A. Hauerwas (P), propose une démonstration de réusinage et rodage des surfaces d'étanchéité de vannes, soupapes et brides.

Langues : allemand, français.

Renseignements : M. Piraison / FI / 4585.

PRESENTATION TECHNIQUE

ANALOG PEVICES (US/CH) : Seminar on MICROPROCESSOR INTERFACE "Integrated Circuits Converters, Data Acquisition Systems and Analog Signal Conditioning Components".

Analog interface to converters, d/a output amps, a/d buffers, bypassing and grounding, converter technology and applications, micro-processor interface.

I^Q9_l}Es__16^30_hrs :

Precision techniques, components, testing, CMOS protection, instrumentation amps, IAs and isolators, analog computational devices, multipliers and RMS, some log amps.

Lieu : Salle de Conférence ISR, Bât. 30 (7e étage)
JK2 site de Meyrin.

Langues : anglais (questions allemand/français)

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VENDREDI 15 JUIN

POUR INFORMATION / FOR INFORMATION

SEMINAIRE PU LAPP

à 10h30 - Amphithéâtre du LAPP

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

"Recent Results from PETRA"

par G. Fliigge/PESY, Hamburg

Abstract : Results from the first physics runs at PETRA will be discussed. Data on total cross sections and event topologies strongly suggest bb production at E^ = 13 and 17 GeV.

First evidence for hadronic two photon processes was obtained. Bhabha scattering measurements are in good agreement with QED predictions (A > 40 GeV) .

LE SEMINAIRE SERA DONNE EN ANGLAIS.

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

CERN COMPUTER SEMINAR

at 14.00 hrs - Council Chamber

"EMMA, an unbounded multimini processor structure"

by Dr. L. Stringa, Research Dept.,
Elettronica San Giorgio - ELSAG, Genova, Italy.

Abstract: The seminar will present EMMA, Elaboratore Multi Mini Associative (Associative Multi Mini Processor). The architecture of EMMA is built up of modules of variable size, connectable in tree-like structures and offering a theoretically unlimited expansion of computing power. EMMA can be defined as a "multiple cluster hierarchical system". The systems in this category are characterized by a hierarchical structure having several buses, each identifying a cluster formed by processors and memories. Such an architecture makes it possible to achieve a high degree of parallelism with simple and efficient interconnection structures. A remarkable characteristic of EMMA is its fault-tolerance capability. Different reconfiguration policies may be implemented depending on necessities and applications, on account of the sensitivity of algorithms to local malfunctions and of the speed of error propagation. Diagnostic procedures to drive the reconfiguration may be frequently implemented on-line, under control of a specialized monitor.

DISCUSSION MEETING

CAN ONE TELL QCD FROM A HOLE IN THE GROUND?
(A drama in two acts, presented by Mary K)

at 15.00 hrs - Auditorium

THE PLOT

A new religion (Quod CERN Demonstraturum) attempts to impose itself upon an imaginary world. Its opponents and defenders struggle to decide

whether QCD describes their reality, whether one can prove that it so does, and whether its much publicized miracles are fake.

THE CHARACTERS

<u>The prophet</u> Ellias	A preacher of QCD. As if by divine inspiration, he knows the (ultimate) truth at any point in time.
Biscotte	A sorcerer's apprentice. Deus ex 400 GeV machina who performs the prodigies that prove the prophet's most recent truth.
De Oracle	Interpreter of the dogma and arbiter of the tournaments. Preaches to the masses and predicts the past.
Giuliano Bruno:	A heretic. Criticizes QCD from without and harasses its blind followers.
Pestilonzio	An infidel. Devil's advocate who attempts to undermine QCD from within.

15.00 hrs: first act; 15.45 hrs: tea break.
The attendants are kindly invited to "la Salle des pas perdus" by the Auditorium; 16.15 hrs: second act.

MONDAY 18 JUNE

EP SEMINAR

at 17.00 hrs. - Auditorium

"Charm search in hadronic experiments"

by M. Boratav / CERN and Université Curie, Paris

TUESDAY 19 JUNE

CERN PARTICLE PHYSICS SEMINAR

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at 16.00 hrs. - Auditorium

"Structures revealed in p-p and p-n scattering experiments with polarized beams and dibaryon resonances"

by A. Yokosawa / Argonne National Laboratory

(*) Note: Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 15.30 hrs. to meet the speaker and for informal discussions. Tea and coffee will be provided.

WEDNESDAY 20 JUNE

SPECIAL SEMINAR

at 14.00 hrs - EP Conference Room
Lab- 13, 2nd floor

"Diode Laser Optical Recording System"

by W. Hoekstra/Philips Data Systems,
Netherlands

Abstract : Philips Data Systems recently introduced the world's first diode laser optical recording system. Using similar techniques to those developed for VLP (Video Long Play), it allows high-density recording and retrieval of data on an ultra-compact system that employs a pregrooved, double-sided 12" disk. The high information capacity of 10¹⁰ bits, which is equivalent to

about 50 reels of 1600 bpi tape, represents a ten times improvement in capacity over the most advanced magnetic disk pack systems currently available. The system features a direct read after write facility plus fast, random access. Any address can be reached in a mean time of 250 ms, thereby providing virtually instant access to 5 x 10¹⁰ bits (the capacity of one side).

THURSDAY 21 JUNE

CERN PARTICLE PHYSICS SEMINAR

at 16.00 hrs. - Auditorium

"Quasi_two-body decay amplitudes of Υ s from K p-K3 particle final states between 1700 and 2200 MeV of CM. energy"

by B. Franek / Rutherford Laboratory

(*) Note: Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 15.30 hrs. to meet the speaker and for informal discussions. Tea and coffee will be provided.

INFORMATIONS

GENERALES

GENERAL INFORMATION

CONCOURS DU 25e ANNIVERSAIRE DU CERN

A l'occasion du 25e anniversaire de notre Laboratoire, un concours est organisé ouvert à tous les membres du personnel comme défini dans le Statut du Personnel.

Ce concours sera doté de plusieurs prix dont les premiers seront des voyages dans des régions d'Europe où se trouvent d'importants laboratoires de physique des particules (Hambourg, Rome, etc.).

Pour participer à ce concours, il suffit de rédiger un texte en français ou en anglais se rapportant à un aspect des recherches, des activités, de la vie ou des personnes de notre Laboratoire. Tout ce qui, d'une façon ou d'une autre, touche au CERN peut servir de sujet : les installations, leur fonctionnement, la population de notre Laboratoire dans son existence ordinaire ou extraordinaire, les faits insolites, dramatiques ou amusants qui se sont produits sur le site pendant ces 25 ans, les événements inconnus du public, etc. Il peut aussi s'agir d'une description technique ou scientifique d'une expérience, d'une recherche, d'un appareil, mais à condition qu'elle puisse être comprise de tout le monde.

Quelques exemples :

- Une panne technique ayant demandé des interventions inhabituelles.