

SEMINARS SEMINAIRES

Monday 9 April

EP SEMINAR

at 17.00 hrs – Auditorium

Studies of high p_T and E_T^0 phenomena in $p\bar{p}$ and pp interactions at the ISR

by Ch. VON GAGERN / Rockefeller University

A comparison between $p\bar{p}$ and pp interactions at $\sqrt{s} = 53$ GeV will be presented. The ISR experiment R110 has almost full azimuth coverage for electromagnetic energy deposition in the rapidity range $|y| \leq 1$. High $p_T \pi^0$ spectra and neutral transverse energy (E_T^0) spectra up to 20 GeV will be shown. The event structure for high E_T^0 events will be discussed.

Mardi 10 avril

PRESENTATION TECHNIQUE

de 09.00 h à 16.00 h – Parking PTT, bât. 63

GEMÜ - Gebr. Müller - Apparatebau GmbH & Co. KG (D), représenté par Interapp GmbH (CH), propose en exposition : électrovannes en matière synthétique - vannes à membrane en matière synthétique, à corps métallique, avec commande pneumatique, hydraulique ou manuelle - vannes à siège métallique - débitmètre en matière synthétique - sonde de niveau - divers accessoires. Applications : traitements/services des eaux - dans les laboratoires qui travaillent avec des fluides - dans les processus internes où il faut véhiculer/doser des fluides neutres ou agressifs, liquides ou gazeux.

Langues : allemand, anglais, français

Renseignements : M. Diraison / FI / 4585

Tuesday 10 April

CERN COLLOQUIUM

at 16.30 hrs – Auditorium*

Spin-polarized hydrogen

by Daniel KLEPPNER / Laboratoire de spectroscopie hertzienne, Ecole normale supérieure, Paris, and Massachusetts Institute of Technology, Cambridge, Mass.

Spin-polarized hydrogen is a stabilized form of atomic hydrogen which can exist at densities vastly higher than otherwise possible. It is the only substance known which is believed to remain a gas at temperatures down to zero. Techniques from atomic, molecular and low temperature physics have been combined to create spin-polarized hydrogen and study it at densities up to 4×10^{18} atoms/cm³. The material has potential applications to many areas of physics, particularly to particle physics through the creation of high intensity polarized proton sources and jets.

* Tea and coffee will be provided at 16.00 hrs.

Mercredi 11 avril

PRESENTATION TECHNIQUE

de 09.00 h à 12.00 h – Parking PTT, bât. 63

ROSEMOUNT AG (USA, GB, D, CH) expose dans les domaines suivants : Contrôle et réglage : système de conduite de processus Diogènes VDS 25 pour installation industrielles, centrales de chauffage et lignes de production. Mesure : chlore résiduel, valeur pH et potentiel REDOX, O₂ dissous, conductibilité, température, débit, pression, niveau, oxyde de carbone, densité, humidité*. Surveillance : affichages, Data-Logger 205 et 235, interrupteurs de seuil, moniteur d'alarmes 4000, teneur en CO*.*

* nouveau dans le programme de livraison.

Langue : anglais

Renseignements : M. Diraison / FI / 4585

Wednesday 11 April

PS SEMINAR

at 11.00 hrs – PS Auditorium (bldg. 6, 2-024)

The Tevatron – A report on a superconducting accelerator

by M. HARRISON / FERMILAB

During 1983 the Tevatron was commissioned for fixed targets physics and has recently completed the first 4 month HEP run. The talk will briefly review the design, commissioning and operational experience and look to the future as a $p\bar{p}$ collider.

Wednesday 11 April

THEORETICAL SEMINAR

at 14.00 hrs – TH Conf. Room

GeV partons and TeV hexons from topological particle theory

by G.F. CHEW / Berkeley

A TeV supermultiplet of elementary hadrons is broken by topological-colour switching into 'partons' with GeV-scale masses and 'hexons' with TeV-scale masses. (Hexons have 6 topological constituents while GeV partons have 2 or 4). GeV topological partons promise, with no confinement problem, to duplicate phenomenological successes of QCD-parton models. Hexons give mass to electroweak bosons, provide tentative explanation of cosmic-ray centauro events, and promise a host of novel TeV accelerator phenomena.

Wednesday 11 April

CAS ACCELERATOR SEMINAR

at 14.30 hrs – LEP Auditorium (top floor of bldg. 30)

High voltage vacuum insulation – The physical origin of prebreakdown electron emission currents

by R.V. LATHAM / University of Aston, UK, and CERN

Recent evidence suggests that the prebreakdown currents that flow between vacuum-insulated high-voltage electrodes frequently originate from a non-metallic field

*Tributes will be paid
to the memory of*

SIR JOHN ADAMS

Former Director-General of CERN

at a memorial gathering

*on Friday 27 April 1984
at 2.30 p.m. in the Auditorium
to which CERN staff and their families are invited.*

*There will be closed-circuit television retransmission in the
Council Chamber and LEP Auditorium, and sound transmis-
sion to the SPS Auditorium.*

emission mechanism which is thought to be associated with the presence of some form of insulating/semi conducting surface oxide or impurity concentration. This talk develops this theme by giving a brief review of the growing body of experimental evidence in favour of this contention, a discussion of possible new physical models and finally, an assessment of technological implications.

Wednesday 11 April

DD SEMINAR

at 16.00 hrs – DD Amphitheatre
(bldg. 31, 3rd fl.)

**Use of MICE as front end in the
OMEGA data acquisition system**

by J.-P. DUFEY

MICE, an emulator of the PDP11, developed at CERN, is used as a front end of the OMEGA VAX data acquisition computer. It can perform event filtering by means of user provided code; furthermore the possibility to pack events and the fast response to interrupts allow for a considerable increase of the data throughput.

Thursday 12 April

ISOLDE SEMINAR

at 10.30 hrs – Conf. Room S-013, bldg. 4

Nuclear physics at ISOLDE with laser

by S.A. AHMAD

The nuclear moments and charge radii of the ground state serve as a valuable aid in understanding the single-particle structure and the development of nuclear deformation especially in the critical regions of nuclear shell-closure of shape transitions. The application of collinear fast-beam laser spectroscopy to the study of short-lived nuclei produced at ISOLDE, has been extremely successful in extracting nuclear spins, moments and mean square charge radii. Recent investigations of long isotopic chains of Eu and Ra, involving nuclei around shell-closure at N=82 and 126, provide interesting informations which will be presented.

Thursday 12 April

PRESENTATION

at 14.00 hrs – DD Amphithéâtre
(Bldg. 31, 3rd fl.)

Presentation of the VAX 11/785 and 11/725
plus the VT200 series of terminals

by Digital Europe Marketing personnel

The VAX 11/785 is the new top of the VAX processor range. It uses new high speed circuits and a large cache memory making it the fastest VAX processor, approx. 50 per cent faster than the 11/780. The VAX 11/725 is Digital's smallest Unibus VAX/VMS system, and is based on 11/730 technology. Digital's new VT200 series of interactive terminals will also be presented.

Thursday 12 April

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

**Latest results from the
IMB proton decay detector**

by J. VAN DER VELDE / University of
Michigan, Ann Arbor, and LAL, Orsay

Latest results from the Irvine – Michigan – Brookhaven proton decay detector (3 300 tonnes fiducial volume) will be described. Several two-body decay modes have been searched for and no candidates have been found. A wide variety of other modes has also been studied, and a comparison of candidate events with the expected background from neutrino interactions will be made. A comparison of these results with those from other detectors will also be given. Plans to increase the resolution of the IMB detector will be described.

* Tea and coffee will be provided at 16.00 hrs.

Vendredi 13 avril

PRESENTATION TECHNIQUE

de 09.00 h à 12.00 h – Salle du Conseil

CPI, Concepts & Perspectives Informatiques SA (CH) présente le CT-1000 de CASE Technology Inc. (USA).
Thème : dessin assisté par ordinateur pour la création de schémas électroniques avec simulation.*

* Computer Aided Structured Engineering.

Langues : français, questions possibles en anglais
Renseignements : M. Diraison / FI / 4585

Friday 13 April

CERN COMPUTER SEMINAR

10.00 to 16.00 hours – Auditorium

FORTRAN forum

The committee responsible for the development of FORTRAN standards, X3J3 of ANSI, is currently engaged in a new revision of the language. The new standard, presently called FORTRAN 8x, is expected to be released in about 1988. The FORTRAN Forum is intended to give European users an overview of the current status of the revision, and to allow discussion between users and members of X3J3. The presentations will emphasise the proposed array processing and data abstraction features of FORTRAN 8x, as well as describing more general aspects of the language. This is likely to be the last direct contact between X3J3 and European users before the publication of the draft standard in 1985.

Agenda

10.00 Opening remarks, Jean ADAMS / Colorado St.
Univ., chairman of X3J3

10.15 Overview of FORTRAN 8x,
Neldon MARSHALL / EG&G

11.15 Coffee

11.30 Data abstraction, Jerry WAGENER / Amoco

12.30 Lunch

14.00 Array processing, George PAUL / IBM

14.45 Coffee

15.00 Panel discussion :
Ted CROWLEY / CSP
Kurt HIRCHERT / Univ. of Illinois
David WILLIAMS / CERN
Julius ZOLL / CERN

Contact

The speakers will be at CERN for the whole week 9-13 April, and may be contacted through M. Metcalf, phone 4427 or 6111 beep 5558.

Friday 13 April

MEMORIAL GATHERING

at 14.30 hrs – Council Room

In honour of the late
Vladimir Jurko Glaser

Organized by Theory Division, the gathering will include tributes to Jurko Glaser's human qualities and scientific achievements by J. Bros, H. Epstein, H. Lehmann, A. Martin and W. Thirring.

Monday 16 April

EF SEMINAR

at 11.00 hrs – EF Conf. Room (bldg. 13, 2-005)

UA1 short term and long term improvement programme

by V. VUILLEMIN and D. SCHINZEL / CERN-EF

A review of the short and long range programmes of the UA1 experiment will be given. Along with physics motivations, topics will cover descriptions of the microvertex pressurized wire chamber, the improved muon detection system and the new VME data acquisition. Progress achieved on the uranium – TMS calorimeter will be extensively discussed.

Monday 16 April

PRESENTATION

14.00 to 16.30 hrs – DD Auditorium (bldg. 31, 3rd fl.)

The CYBER 180 and NOS/VE operating system – advanced hardware and software products from Control Data Corporation

by J.A. WILSON and G.S. BARRETT / Control Data Corporation

14.00 Advanced hardware products

15.00 Break

15.30 Advanced software products

Control Data has recently concluded the initial development phase of its advanced hardware and software products. Details concerning these new products will be presented. Included in the presentation will be a description of extensions to some models in the existing CYBER 170-800 series line together with an overview of a new ASCII-based virtual memory operating system. New models both at the low end and high end of the performance range will be introduced.

Monday 16 April

EP SEMINAR

at 17.00 hrs – Auditorium

Inclusive meson production in K^+p interactions at 70 GeV/c

by L. GATIGNON / CERN-EP

The inclusive production of mesons and meson resonances in K^+p interactions at 70 GeV/c will be discussed. The data were obtained in an exposure of the BEBC bubble chamber to an r.f. separated beam of positive kaons. Longitudinal and transverse momentum distributions will be presented, using the Lund model for low- p_t hadronic interactions as a guide. Special emphasis will be on the inclusive cross-sections of directly produced particles in the K^+p fragmentation region.

Tuesday 17 April

CERN COLLOQUIUM

at 16.30 hrs – Auditorium

Galaxies : Testing ground for INO's

by R. RUFFINI / Rome University

Wednesday 18 April

PS/DD SEMINAR

at 16.00 hrs – DD Amphitheatre (bldg. 31, 3rd fl.)

Languages for array and vector processors

by R.H. PERROTT / Dept. of Computer Science, The Queen's University, Belfast

Mercredi 18 avril

REUNION OUVERTE DU LEP

à 14.30 h – Auditorium du LEP (dernier étage du bâtiment 30)

1. Annonces et réponses aux questions

2. DISTRIBUTION ELECTRIQUE DU LEP

- Avancement des travaux, par O. BAYARD
- Différents réseaux du LEP : pour qui, pourquoi ? Qualité de la tension, délestage, par G. FERNQVIST
- Les principes de la distribution basse tension, par O. BAYARD
- ORACLE : une base de données de départs gérés par MICENE, par A. SWIFT

Thursday 19 April

CERN COLLOQUIUM

at 16.30 hrs – Auditorium

Chaotic dynamics in sugar metabolism

by M. MARKUS / Max Plank Institute for Nutritional physiology, Dortmund

POUR INFORMATION / FOR INFORMATION

Vendredi 13 avril

Laboratoire d'Annecy-le-Vieux de physique des particules, chemin de Bellevue, BP 909, F-74019 ANNECY-LE-VIEUX CEDEX

à 10.45 h – Amphithéâtre du Laboratoire

Phases incommensurables :

application au quartz

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

ENSEIGNEMENT GÉNÉRAL Tél. 2844

Jeudi 12 avril

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS

Prochaine séance : jeudi 10 mai

Thursday 12 April

INFORMATION MEETING FOR SECRETARIES

at 11.00 hrs – Barrack 593, Room 11

Administrative Data Processing and
Decision Support Systems at CERN

by G.V. FRIGO

- *the place and role of Management Information Data Processing from the organisational and computing points of view,*
- *data and information : where it comes from, where it goes to,*
- *some cursory remarks on the hardware and software,*
- *database versus files,*
- *towards the information database : current plans of future facilities.*

Duration : 45 minutes plus questions.

Language : English

This is the second information talk in a series of meetings organized at the initiative of secretaries who had attended the training course 'Secretarial Development'.

All CERN secretaries are welcome to these meetings.

Information : E. Fischer, tél. 5811, 3674.

par J. LAJZEROWICZ / Laboratoire de
spectrométrie physique, Grenoble

et

à 14.00 h – Amphithéâtre du Laboratoire

La situation concernant le temps de vie du
proton et l'expérience de Fréjus

par LONGUEMARRE / LAL, Orsay

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

PUBLICATION DU BULLETIN HEBDOMADAIRE PENDANT LA SEMAINE DE PAQUES

Cette année, l'édition du Bulletin hebdomadaire de la semaine du lundi 16 avril couvrira la période de Pâques allant du lundi 16 avril au vendredi 27 avril. Cette double édition (n° 16-17/84) sera préparée comme d'habitude et distribuée le vendredi 13 avril. Toutes les annonces prévues pour cette période de Pâques devront donc parvenir dans les délais habituels (mardi 10 avril à midi) pour distribution du vendredi 13 avril.

Il n'y aura pas de Bulletin distribué la semaine du Vendredi Saint.

L'édition suivante (n° 18/84) paraîtra le vendredi 27 avril. Il est souhaitable que les annonces de ce Bulletin nous parviennent dès que possible, et en tous cas pas plus tard que les délais normaux (mardi midi, 24 avril).

Section des Publications / DOC
Tél. 3475 - 4106

PROFESSEUR DE MATHÉMATIQUES POUR LE LYCEE INTERNATIONAL DE FERNEY-VOLTAIRE

Le Proviseur du Lycée nous prie de communiquer qu'une suppléance est à pourvoir à partir du 16 avril 1984 pour l'enseignement à plein temps des mathématiques, au Collège et en classe de seconde.

Qualifications requises : maîtrise, licences de mathématiques ou équivalent.

Toute personne intéressée est priée de prendre contact avec le Proviseur du Lycée international de Ferney-Voltaire, téléphone 40 79 00 à Ferney-Voltaire.

AVIS

La personne qui est passée dans mon bureau et qui a choisi ma plus belle plante serait bien aimable de l'arroser régulièrement.

Merci.

N. Boimond