

de carte au mois de juillet (la date exacte sera communiquée dans un Bulletin ultérieur), en synchronisation avec l'installation d'un gardien de nuit dans le bâtiment 33. Des contrôles seront effectués par les gardiens des accès au domaine.

Les membres du personnel (y compris les Bourriers, Attachés et Stagiaires) qui souhaitent bénéficier de cette facilité, et qui ne sont pas déjà détenteur d'une carte, sont priés de se présenter au Service de l'Enregistrement, bâtiment 33/R-016, pendant les semaines indiquées ci-dessous. Aucun formulaire d'autorisation n'est nécessaire. Aucun code spécial (tel que 'L' pour LEP surface) ne sera adopté pour l'entrée A. Vous devez présenter votre permis de conduire CERN, le cas échéant; la lettre 'V' ('Véhicule') sera ajoutée sur votre carte d'identité/accès en échange du vieux permis.

Semaine	Division
19 au 23 juin	AG, TH
26 au 30 juin	LEP, TIS, DD
3 au 7 juillet	PE, FI
10 au 14 juillet	TH, PS, EP
17 au 21 juillet	SPS, ST

Les heures d'ouverture actuelles de l'entrée A sont, du lundi au vendredi : de 07h00 à 09h00, de 11h30 à 14h30, et de 16h30 à 19h00.

Groupe des Services généraux / AG
Tél. 3333

in July (the exact date will be published in a subsequent issue of the Bulletin) in conjunction with the installation of a night guard in building 33. Checks will be made on the spot by the site entrance guards.

Members of the personnel (this includes Fellows, Associates, Students) who wish to avail themselves of this facility, and who are not already card-holders, should call at the Registration Service, building 33/R-016, during the weeks shown below. No special authorization form is necessary. No special code (such as 'L' for LEP surface) will be used for gate A. You should bring with you **your CERN driving licence** if you have one; the letter 'V' (Véhicule) will be added to your identity/access card **in exchange for the old driving licence**.

Week	Division
19 to 23 June	AG, TH
6 to 30 June	LEP, TIS, DD
3 to 7 July	PE, FI
10 to 14 July	TH, PS, EP
17 to 21 July	SPS, ST

Current gate A opening times are : Monday to Friday from 07.00 to 09.00 hrs, from 11.30 to 14.30 hrs and from 16.30 to 19.00 hrs.

General Services Group / AG
Tel. 3333

SEMINARS SEMINAIRES

Monday 26 June PRESENTATION

10.00-12.00 hrs & 14.00-16.00 hrs
DD Auditorium, bldg 31, 3-005

ELTEC VMEbus and OS-9 News

Eltec will present their latest products, with emphasis on :

- EUROCOM-6, a highly optimized 68030 based CPU module for VMEbus
- X-Windows environment for OS-9
- Current design projects, including :
EUROCOM-80 high-functionality RISC based module

New IPIN communications daughter boards

The afternoon session will be devoted to informal discussions and demonstrations of X-Windows and Internet interfacing.

Language : English

Organizer : C. Parkman/DD/3963/PMN@CERNVM

Monday 26 June

EP SEMINAR

at 16.30 hrs – Auditorium

New results from NMC

by M.A.J. JOTJE / Paul Scherrer Institute,
Villingen, Switzerland

The New Muon Collaboration (NMC) measures deep inelastic scattering on a wide range of target materials (H_2 , D_2 , He, Li, C, Ca and Sn), using an upgrade of the EMC spectrometer. Results will be presented on the structure functions ratios obtained from the target combinations D/H , He/D , $C/Ca/D$, $C/Ca/Li$ in the range $0.004 < x < 0.8$ and $1 < Q^2 < 190 \text{ GeV}^2$. The targets in each combination were exposed simultaneously to the beam and, as a consequence, most systematic errors cancel in the ratio of cross-sections. Compared to previous measurements, our data on F_2^N / F_2^p extend to lower values of x and may serve as an important constraint on the parton distributions derived from absolute structure functions. The nuclear data allow for a detailed investigation of a A -dependence of the EMC effect, in particular in the shadowing and anti-shadowing region.

Mardi 27 juin

PRESENTATION TECHNIQUE

de 09.00 à 17.30 h – bât. 6, 2-004

Hewlett-Packard (Suisse) SA propose une exposition démonstration sous le thème 'Instrumentations de mesure High Tech' : oscilloscopes numériques, analyseurs de spectres, analyseurs de réseaux HF & hyperfréquence (USA, GB, D, J).

Langues : allemand, anglais, français

Renseignements : M. Diraison / FI / 4585

Tuesday 27 June

LAA PROJECT - THIRD OPEN MEETING

at 09.00 hrs – LAA Building, bldg 29

09.00-10.00 *General presentation*
A. Zichichi

High precision tracking

10.00-10.20 a) *Gaseous detectors*
F. Sauli

10.20-10.50 b) *Scintillating fibres*
H. Leutz

10.50-11.10 c) *Microstrip GaAs*
C. Del Papa

11.10-11.30 *Coffee*

Calorimetry

11.30-12.00 a) *High precision electromagnetic*
G. Charpak

12.00-12.30 b) *Compact EM + hadronic*
R. Wigmans

12.30-12.50 c) *Perfect calorimetry*
T. Ypsilantis

Large area devices

12.50-13.20 a) *Construction*
G.C. Susinno

13.20-13.35 b) *Alignment*
U. Becker

13.35-14.15 *Lunch*

14.15-14.35 *Leading particle detection*
T. Massam

Subnuclear multichannel integrated detector technologies

14.35-15.05 a) *Silicon*
H. Heijne

15.05-15.20 b) *Megarad readout electronics*
T. Ekelöf

Data acquisition and analysis

15.20-15.40 a) *Real-time data processing*
R.K. Bock

15.40-15.50 b) *Fastbus RISC AME*
A. Marchioro

15.50-16.00 c) *Fine grained parallel processor*
A. Sandoval

16.00-16.20 *Coffee*

16.20-16.50 *Supercomputers and Montecarlo Simulations*

L. Cifarelli

16.50-17.00 *Very high magnetic fields*
B. Musso (ANSALDO)

17.00-17.15 *Supraconductivity at high temperature*
A. Colavita & S. Ceresara (LMI)

17.15-17.35 *Radiation hardness*
H. Schönbacher

17.35-17.50 *Particle identification*
T. Ypsilantis

17.50-18.00 *Conclusion*
A. Zichichi

All times include discussion.

Coffee & lunch (sandwiches & coffee) will be served in the LAA Building

Wednesday 28 June

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Quantum gravity and the collapse of the wave function

by D.V. NANOPOULOS / Texas A&M University

We derive a general form of non-unitary modification to the Hamiltonian evolution equation caused by wormholes interacting with a microscopic system. We show that it suppresses elements of the density matrix which are off-diagonal in the configuration space representation, thus causing the wave function to collapse. An order-of-magnitude estimate indicates that the collapse time is very long ($t \sim 10^{37}$ s) for a single elementary particle. However, the effect is enhanced for the centre-of-mass motion of a large aggregate of particles. In particular, the wave function of a body containing Avogadro's number of particles may be localized within a Bohr radius in $t \sim 10^{-7}$ s.

Wednesday 28 June

DD SEMINAR

at 16.00 hrs – DD Auditorium
bldg 31, 3-005

Parallel architectures as part of the fast trigger?

by S. LONE / CERN-EP-LAA

Studies done for the future hadron accelerators and their detectors indicate event rates of up to 10^8 events/second and data volumes greater than 1 MegaByte/event. The event rate is a consequence of the high luminosity, and the data volume of the higher resolution of the detectors. To make use of the fine grained information at the triggering level, highly programmable and flexible devices will be needed. We assume a 'second level trigger' will have of the order 10 microseconds to take a decision. To study how well novel parallel fine grain computer

architectures would fit into this scheme and to get a better understanding of the problems involved in implementing trigger algorithms on parallel structures, a set of benchmarks (the 'LAA Benchmarks') were defined and some commercially available parallel computers evaluated with respect to these. An overview of the architectures and the results of the benchmarking are presented.

Jeudi 29 juin

PRESENTATION TECHNIQUE

à 14.00 h – bât. 61, 1er étage, salle A

Mathevon Michel (F), représentant Intelware (USA), propose une démonstration de sa gamme 'Equinoxe', la plaque à cristaux liquides, outil de communication pour séminaires, conférences, réunions de travail, etc. Posée sur un rétroprojecteur, connectée directement à un ordinateur ou entièrement autonome, la plaque à cristaux liquides permet de projeter, sur grand écran, l'image vue sur ordinateur.

Langue : français

Renseignements : M. Diraison / FI / 4585

Friday 30 June

TECHNICAL PRESENTATION

at 09.00 hrs – EF Conference Room
bldg 13, 2-005

TRW-LSI High Speed products

by Mark SAUERWALD / Applications engineer, TRW-LSI Products Inc.

- *New Low Cost A/D-Converters, 8 bits/25 MHz in a low power bipolar technology*
- *Future trends on high resolution ADCs*
- *Flash peak detector : introducing a new product*
- *General product overview*
- *Discussion, continuation in small groups if desired.*

Mark Sauerwald supports Analog Products applications, particularly those used in Video applications, where High Speed ADCs are used. To assist on commercial subjects there will be personnel from TRW LSI, München and from BASIX für Elektronik AG, Zürich.

Information : M. Diraison / FI / 4585

Friday 30 June

SPS SEMINAR

at 11.00 hrs – SPS Auditorium

Development of high-field superconducting magnets for the LHC

Review of the programme and results of the first model magnets

by R. PERIN & L. OBERLI / CERN-SPS

Development of high-field superconducting magnets for a future Large Hadron Collider (LHC) was

started about three years ago, based on a collaboration between CERN and European industrial firms and institutions. Model dipole magnets for both NbTi and Nb₃Sn development lines have been built and successfully tested, establishing a world record in magnetic fields for dipole magnets for particle accelerators. The present state of the programme for dipoles, quadrupoles and other magnets will be presented and details of the results of tests on the first magnets will be given.

Friday 30 June

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs - TH Conference Room

New heavy vector bosons at $p\bar{p}$ colliders

by B. MELE / CERN

Production and detection of new heavy vector bosons are studied at present (or near future) $p\bar{p}$ collider experiments. Rather than a number of detailed models, some general classes of new vector bosons ranging from strongly-interacting Higgs sector models to extended gauge models are considered. Signals and backgrounds in the 2 leptons + 2 jets channels are studied in particular.

Friday 30 June

TECHNICAL PRESENTATION

at 14.00 hrs – EF Conference Room
bldg 13, 2-005

HARRIS Products

by Bernd WILLER / Applications engineer, Harris Analog Devices

- *Advantage of the HARRIS Dielectric Isolation Process*
- *Fast monolithic OP-Amps*
- *Latch-up free CMOS Analog Switches*
- *Overvoltage protected multiplexer*
- *RTX real-time-microcontroller*

To assist on commercial subjects there will be personnel from BASIX für Elektronik AG, Zürich.

Information : M. Diraison / FI / 4585

Friday 30 June

PRESENTATION

14.00 to 16.30 hrs – DD Auditorium
bldg 31, 3-005

ALTERA EPLDs

by H. FAHL / Applications manager & W. WEBER / W. STOLZ AG

ALTERA will present their latest technology in EPLDs with emphasis on the MAX products. The software compilers, logic synthesis and timing simulations will be demonstrated. The programming and testing methods will be covered as well as discussion on future trends and architectures.

Monday 3 July

EF SEMINAR

at 11.00 hrs – EF Conference Room
bldg 13, 2-005

Cold fusion – Science or biopsy science?

by Douglas R. O. MORRISON / CERN-EP

Pathological Science is a study of effects such as N-Rays, that are long in the past and are known to be false. Biopsy Science is an attempt to apply these studies to an effect that is in progress and where there is no unanimous conclusion at this time. In this talk Cold Fusion will be treated two ways :

- 1. from a scientific standpoint, reviewing the experiments and theory*
- 2. testing the Fleischmann and Pons Effect by the criteria of Biopsy Science.*

Tuesday 4 July

CAS ACCELERATOR SEMINAR

at 14.00 hrs – Council Chamber

Coherent electron-positron pair production in the final focus of a linear collider

by Norman KROLL / SLAC-UCSD

INFORMATIONS GENERALES

GENERAL INFORMATION

SEMINARS FOR SECRETARIAL STAFF

A series of four information seminars of Management Information Systems (MIS) Services will take place from Monday 26 June to Thursday 29 June, each day from 14.00 to 15.30 hrs, in the Main Auditorium, Building 500.

All secretaries are invited to attend these seminars as are all administrative staff and other interested colleagues.

The presentations will demonstrate office applications on a Macintosh. (The overview of ADP applications will be limited to the usage by non-specialist users)

If you have not received the detailed programme, please contact C. Erich DD-OCS / 8135 / ERICH@CERNVM or M. Robillard / AG. The programme is also available on CERNVM by typing

TRAINING AND EDUCATION ENSEIGNEMENT

ENSEIGNEMENT GENERAL

Tél. 2844-5811

Jeudi 29 juin

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS

Prochaine séance : jeudi 5 octobre

ACADEMIC TRAINING

Tel. 2844-3364

26, 27, 28, 29 & 30 June

11.00 to 12.00 hrs – Auditorium

Accelerator physics for pedestrians

by M. HINE

DOCFIND MIS NEWSLETTERS SDGPROG

or, for Macintosh & MS Word owners, on the 'MIS-Mac Support' server (Appletalk zone 'MIS-OCS-513') in the 'MIS News' folder.

ON RECHERCHE...

Nous avons reçu 2 moules en bois usagé, mod. no LAB 005-OTPC-41-01 de 217 kg, de la maison Honsel Werke à Meschede.

La personne concernée est priée de téléphoner à la réception, tél. 4691.

B. Schellenberg