

SEMINARS SEMINAIRES

Monday 14 May

AT SEMINAR

at 11.00 hrs – LEP Auditorium
bldg 30, 7th floor

From 0.01 to 100 000 Gauss
The multiform activity of the Accelerator
Technology Magnet Group

by Romeo PERIN / CERN-AT

The new AT Magnet Group was formed by merging together the old LEP, PS and SPS magnet groups and sections. It covers most of the magnet activities for CERN accelerators and a number of areas for experiments, ensuring regular running and improvement of the existing equipment and development, design and construction of new magnets. A review of the activities will be presented, ranging from delicate measurements of milligauss fields in LEP magnets to R&D on 10 tesla magnets for the LHC.

Monday 14 May

CN SEMINAR

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

More news from the Old West

by Bob DOBINSON / CERN-ECP

Following on from David Williams' talk, 'Does Santa Fe lie at the end of the trail?', this seminar will summarize topics covered in the Architectures and Algorithms sessions of the Santa Fe Conference on Computing in High Energy Physics. It is essentially an expanded version of a summary talk given at Santa Fe. The emphasis will be on present and future data acquisition and triggering systems.

Monday 14 May

SPECIAL SEMINAR

at 16.30 hrs – Auditorium*

Overview of US Department of Energy nuclear physics program

by D. HENDRIE / Department of Energy,
Washington

The current and future nuclear physics programme in the United States, including RHIC and CEBAF will be reviewed.

* Tea & coffee will be served at 16.00 hrs.

Tuesday 15 May

CERN COLLOQUIUM

at 16.30 hrs – Auditorium*

Electron Spectroscopy – a link between physics and chemistry

by Kai SIEGBAHN / University of Uppsala

A flashback to the various developments in electron spectroscopy will be given. Different sources of excitation will be discussed and their applications in the corresponding scientific situations. Emphasis can be put on either the surface layer or the region below, e.g. the interfaces in layered compounds or composition studies of liquids and solutions. New approaches are presently under development to extend the region accessible by lasers down into the VUV. The extremely narrow band widths, tunability and short pulse timing, down into the femtosecond region, all at reasonable costs, are attractive features for excitation purposes of electron spectra in these regions by laser. Promising fields are found in molecular physics and surface physics related to e.g. semiconductors and band studies. Progress is also made in electron scattering at high resolution.

* Tea & coffee will be served at 16.00 hrs.

Wednesday 16 May

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Simulating continuum physics by new collective Monte Carlo methods

by U. WOLF / Kiel

Standard lattice and Monte Carlo methods are briefly reviewed and the problem of critical slowing down is described. Its solution for scalar fields by percolation cluster algorithms is given. To demonstrate the power of the method, some results are shown, including a two-dimensional asymptotically free model. The status of attempted extensions to gauge theories is summarized.

Mercredi 16 mai

PRESENTATION TECHNIQUE

de 14.00 à 16.00 h : exposé

de 16.00 à 17.00 h : discussion

bât. 17, 1-007

Traitement des eaux

Watcotec SA (CH) propose une présentation approfondie des produits Polaris de UCIO, Union Chimique et Industrielle de l'Ouest (F).

Applications générales

Inhibitions d'incrustations, d'entartrage et de corrosion conçues pour la protection des installations de

- refroidissement, ouvertes, semi-ouvertes ou fermées*
- laveurs d'air*
- générateur de vapeur*
- circuit eau glacée*

- circuit chauffage
- climatisations (circuits condenseurs, machines à absorption, humidificateurs)

Langue : français

Renseignements : M. Diraison / FI / 4585

Mercredi 16 mai

PRESENTATION TECHNIQUE

de 14.00 à 18.00 h - bât. 73, 2-027

Philips SA (CH/NL) propose en exposition démonstration l'ensemble de son équipement bureautique : pocket memo (systèmes de dictée et de transcription), desktop writer, vidéo-writer, téléfax, moniteurs pour ordinateurs personnels, imprimantes laser de bureau, systèmes de surveillance des personnes et des objets dans un rayon de 100 m, téléphone mobile et téléphone de poche fonctionnant sur le système cellulaire Natel C.

Langues : anglais, français

Renseignements : M. Diraison / FI / 4585

Wednesday 16 May

CN SEMINAR

at 16.00 hrs - CN Auditorium
bldg 31, 3-005

FATMEN Presentation: a Distributed File and Tape Management System

by J. SHIERS / CERN-CN

The FATMEN Distributed File and Tape Management System was designed and built by a team comprising members from each LEP experiment plus CN staff. This presentation will describe the main features of the system, the user interfaces and relevant details of the internal structure. Potential users of the system are encouraged to attend.

Friday 18 May

SPECIAL SEMINAR

at 11.00 hrs - TH Conference Room

Forward scattering parameters for pp and p $\bar{p}$ scattering at ultrahigh energies

by M. BLOCK / FNAL

Friday 18 May

MEETING ON

PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs - TH Conference Room

The bottom fragmentation function at LEP : a first principle calculation

by P. NASON / CERN

I present the result of a first principle, next-to-leading calculation of the heavy quark fragmentation function in e^+e^- collisions. Applications for LEP are discussed. I also discuss the extension of this formalism to the calculation of the production of heavy quark at very high transverse momentum in hadronic collisions (Sp $\bar{p}$ S, Tevatron, LHC-SSC).

Monday 21 May

CN PRESENTATION

at 10.30 hrs - CN Auditorium
bldg 31, 3-005

Apollo Operating Systems

by Mike GREATA / Hewlett Packard,
Chelmsford, USA

The presentation will focus on the Apollo operating systems. First the Aegis structure will be reviewed as well as the first implementations of Domain/IX (Unix V.2 and BSD4.2 on Apollo platform). Then the move to native UNIX and the transition to SR10 will be presented. Finally there will be a discussion about the future of Domain/OS and the move to OSF. The presentation will be followed by a question and answer session.

Mike Greata was one of the three founders of Apollo Computer Inc. in 1981. He was R&D Vice President of Apollo until 1989. He is now responsible for the total RISC program for Hewlett Packard in Chelmsford, where the Apollo and HP teams were merged in November 1989.

Monday 21 May

SPECIAL PS SEMINAR

at 11.00 hrs - PS Auditorium
bldg 6, 2-024

Observations of the 'PSR transverse instability' and current operating status of the Los Alamos Proton Storage Ring

by David NEUFFER / Los Alamos National Laboratory

An instability has been observed in the Los Alamos Proton Storage Ring (PSR) which causes fast beam loss accompanied by large transverse oscillations, in both unbunched and bunched beam conditions. Recent observations and calculations indicate that the instability is an e-p instability, driven by background electrons trapped within the proton beam, although previous calculations indicated that the e-p instability should not occur with bunched beam. The apparent discrepancy is discussed, and a possible resolution is suggested. Future plans for observation and treatment of the instability will also be discussed. The current operating status of the PSR will also be reviewed.

Mercredi 23 mai

SEMINAIRE PS

à 11.00 h – Amphithéâtre PS
bât. 6, 2-024

**Résultats de tests à forts gradients dans des
structures accélératrices en bandes au
Laboratoire de l'Accélérateur Linéaire d'Orsay**
par G. BIENVENUE / LAL

Wednesday 23 May

CN SEMINAR

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

**The vectorization of Monte Carlo codes : basic
instruments and philosophy**
by F. ANTONELLI / IBM, SIUR division
(System Informatics for Universities and
Research), Pisa, Italy

TRAINING AND EDUCATION ENSEIGNEMENT

ACADEMIC TRAINING

Tél. 2844-3364

15, 16, 17 & 18 May

11.00 to 12.00 hrs – Auditorium

An introduction to curved space-times

by Ruth M. WILLIAMS / University of
Cambridge

INFORMATIONS GENERALES GENERAL INFORMATION

SERINGUES

Un incident survenu récemment lors d'un nettoyage de poubelles nous incite à rappeler au personnel les règles suivantes :

- lors de tout usage de seringues, type insuline ou autre, que cela soit pour un usage technique (collages) ou médical (traitement à l'insuline, etc.) **ne pas jeter les seringues usagées avant d'en avoir enlevé l'aiguille !**
- pour éviter tout accident, collecter ces aiguilles dans un récipient prévu à cet effet et pouvant être fermé (par exemple un flacon en plastique).

Ces dispositions sont à prendre de manière impérative pour éviter que le personnel de nettoyage ne se blesse lors de son travail journalier.

J.-P. Diss
Service médical

SYRINGES

Following a recent accident during dustbin cleaning, we would like to remind members of the personnel that :

- **used syringes must on no account be thrown out without removing the needle** whether they have been used for technical purposes (e.g. gluing) or medical purposes (e.g. insulin injections)!
- to avoid accidents all needles should be collected in a sealed container designed for that purpose (e.g. a plastic case).

These instructions must be strictly complied with to prevent injury to the cleaning staff in the course of their daily activities.

Dr J.-P. Diss
Medical Service