

pendant le présent arrêt, en s'attaquant tout d'abord à la sous-station principale de la zone, qui alimente le PS lui-même. La rénovation de la zone du PS, qui concerne en partie le projet LHC, ne pourra être terminée qu'après plusieurs périodes d'arrêt. Pendant ce temps, les personnes qui y travaillent rencontreront peut-être certains problèmes d'alimentation, mais une fois le travail achevé ils pourront bénéficier d'un système plus fiable et ne nécessitant qu'un entretien réduit.

to enjoying a more reliable, low maintenance system when the work is done.

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Les membres du personnel ayant des enfants à charge de 18 ans ou plus (ou atteignant 18 ans au cours de l'année scolaire 95/96) qui n'ont pas encore fourni un

CERTIFICAT de SCOLARITE

doivent le faire parvenir dans les **plus brefs délais**.

Remboursements et Attributions
Division du Personnel
Tél. 2862-4474

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SCHOOL CERTIFICATE

must do so **as soon as possible**.

Claims and Benefits
Personnel Division
Tel. 2862-4474

SEMINARS SEMINAIRES

Monday 16 October

EHUG HIPPI DAY AT CERN

at 09.30 hrs – CN Auditorium, bldg 31/3-005

Conditions: This is an open meeting of the European HIPPI User Group (EHUG), People from CERN are welcome

09.30 Opening , (HIPPI for physics data-taking)
Rudy Bock/CERN

10.00 HIPPI at CERN an overview...
Arie van Praag/CERN

10.30 ... and in the computer center
Ben Segal/CERN

11.00 Serial HIPPI now and in the Future
Mike McGowen/Essential Comm.

11.45 EHUG what it is and what it aims
Peter Haas, Arie van Praag

12.15 **Lunch**

14.00 Protocols over HIPPI
John Renwick /Netstar

14.45 High Performance Communications in large MTU Networks
Peter Haas/Stuttgart University

15.30 Solving Mass storage problems using HIPPI
Ed Calkins/Maximum Strategy

16.30 Roundtable

See also the EHUG WWW page at <http://www.cern.ch/HSI/hippi/hug/ehug.htm>

Information : Arie van Praag/5034

Monday 16 & Tuesday 17 October

VMEBUS INTERNATIONAL PHYSICS ASSOCIATION

16 October : from 14.00 to 17.30 hrs

17 October : from 09.00 to 16.30 hrs

AT Auditorium, bldg 30, 7th floor

An open meeting of the VMEbus International Physics Association (VIPA), is being organised by the ESONE/CERN VMEbus Steering Committee. Reports will be made on the latest status of developments to the VMEbus standard including revised mechanics, backplanes, power supplies, etc., as well as software issues, with presentations from the relevant standards bodies and groups in Europe, North America and Japan. The VSC's "Recommended Practices for the use of VMEbus in Physics" document will be presented in its final draft.

All interested parties are welcome to participate and to join in the discussions.

For more information, including the agenda, see the WWW page : http://www.cern.ch/ECP-ESS/VSC/VIPA/VIPA_at_CERN.html, or contact : Chris Parkman (Convenor, ESONE/CERN VSC), e-mail chris.parkman@cern.ch

Tuesday 17 October

TECHNICAL PRESENTATION

at 10.00 hrs – CN Auditorium, bldg 31/3-005

PCI based reconfigurable computing platforms

by Mark SHAND / Researcher at the Palo Alto Systems, Research Center

The talk will discuss developments in reconfigurable computing on PCI both inside and outside of Digital.

The second part of the talk will focus on the PCI Pamette under development at the Digital Equipment Corporation Systems Research Centre. Topics include :

- PCI performance: theoretical and measured.
- Architecture of PCI Pamette.

Organiser : S. Cannon / CN / 5036

Tuesday 17 October

SEMINAR

at 15.30 hrs – Theory Conference Room, bldg 4/3-006

The secrets of colour

by David TRAVIS / System Concepts Ltd.

Ironically, it was Isaac Newton who was amongst the first to realise that colour is a fact of psychology, not a fact of physics. During his landmark experiments with prisms, Newton pointed out (Opticks, 1730) that the light rays themselves were not coloured but contained the power to generate colour sensations in the retina. Newton realised that to uncover the secrets of colour we must understand our perceptual systems, not the world outside. In this talk, I will try to reveal some of these secrets by describing the psychology and physiology of human colour vision. I will describe how models of colour vision can be applied to display design and how and when to colour code information displays.

David Travis has been working in the area of colour and applied vision for over ten years. After his Cambridge doctoral work on the physiology of colour vision, he pursued research into colour deficiency at the University of York and into colour perception at

New York University. He has specialised in industrial applications since 1988, when he joined the Human Factors Division of BT Laboratories. He has published numerous scientific papers, including a book, Effective Color Displays, and he edits the international journal, Displays. He is principal UK expert on an ISO working group writing a human factors standard for colour displays. He is now with System Concepts Ltd, a company that provides consultancy and training in the areas of ergonomics and human factors.

The speaker will be at CERN the whole day on Tuesday 17, please contact Hans Drevermann by e-mail if you are interested to meet him : drevermann@alws.cern.ch

Wednesday 18 October

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Tests of quark-hadron duality and the running of α_s in τ decays

by Matthias NEUBERT / CERN

The assumption of quark-hadron duality is crucial for QCD-based calculations of cross-sections and decay rates. Both global and local duality can be tested by studying the distribution of the invariant hadronic mass in inclusive τ decays. We show that global duality holds down to energies $\sqrt{s}_{\text{had}} \simeq 0.85 \text{ GeV}$; local duality holds for $\sqrt{s}_{\text{had}} > 1.1 \text{ GeV}$, however with small deviations in the region above the a_1 resonance. Based on these results, we extract the running coupling constant $\alpha_s(s)$ in the region $0.7 \text{ GeV}^2 < s < m_\tau^2$ and find excellent agreement with the QCD prediction obtained using the three-loop β function.

Thursday 19 October

TECHNICAL PRESENTATION

at 10.00 hrs – CN Auditorium, bldg 31/3-005

The StorageTek RedWood High Capacity Tape System

by Dave OSEKAVAGE / Storage Technology Corporation, Colorado

The RedWood SD-3 scalable capacity, high performance, tape sub-system is the result of a collaboration between StorageTek, 3M and Matsushita, targeted at a broad spectrum of industrial requirements. The sub-system offers half-inch cartridge capacities of 10, 25 and 50 GB (uncompressed) and recording data rates of over 11 MB/sec. Initial host connectivity is fast wide SCSI and ESCON. The drive is supported by StorageTek's range of automated libraries.

The talk will give a technical overview of the product, review the status of the product, give results of the recently completed field test program and outline the future directions.

Organiser : S. Cannon / CN / 5036

Thursday 19 October

AC SEMINAR

at 16.30 hrs - AT Auditorium, bldg 30/7th floor

Superconductors and Magnets : Part 2

by Martin WILSON / CERN/AT-MA

This second lecture presents details about filamentary composite wires and Rutherford cables.

Friday 20 October

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

Large indirect CP-violation in the neutral kaon system beyond leading logarithms

by Ulrich NIERSTE / Technische Universität München

At present CP-violation is only unambiguously measured in $\Delta S = 2$ transitions inducing $K^0\bar{K}^0$ mixing. The corresponding parameter ϵ_K is therefore today the key quantity for the determination of the phase δ of the Cabibbo-Kobayashi-Maskawa (CKM) matrix. Now the Standard Model prediction for ϵ_K is sensitive to the top quark mass and the CKM parameters $|V_{ub}|$ and $|V_{cb}|$. The recent theoretical and experimental progress in the determination of these quantities allows for a much higher precision in the analysis of ϵ_K . To keep up with this precision, however, one had to calculate the short-distance QCD corrections to $\Delta S = 2$ transitions up to the *next-to-leading order* (NLO) of renormalization group improved perturbation theory. In my talk I will first recall the motivation to investigate CP-violation beyond leading logarithms, then I will describe the theoretical tools used in the calculation and finally I will discuss in detail the present status of the phenomenology. As a special feature, some values for $|V_{ub}|$, $|V_{cb}|$ consistent with tree-level B-decays are excluded by the measured value for ϵ_K . Further, the actual ranges for the CKM phase δ and related quantities are shown. I close my talk with a 1995 look at the $K_L K_S$ mass difference.

Monday 23 October

TECHNICAL PRESENTATION

at 14.00 hrs – CN Auditorium, bldg 31/3-005

Présentation des nouveaux produits NCD

by M. GUILLOUX / Sales Manager & M. VAU /
Technical marketing manager NCD France

Xterminaux 24 bits couleur, XPLORE, etc., nouvelle génération de terminaux X-window, équipé de processeurs 64 bits, résolution maximale 1600x1200, interfaces série, parallèle, PCMCIA, multimédia.

Présentation du logiciel NCDWare 4.0, 3D graphics support avec OpenGL.

Présentation MS Windows sur Terminal X avec NTRIGUE.

Questions/réponses

Organiser : S. Cannon / CN / 5036

Monday 23 October

PPE SEMINAR

at 16.30 hrs – Auditorium

Single photon and photon-jet production at D-Zero

by Bernard G. POPE / CERN and Michigan State University

Results are presented on the observation of isolated single photons by the D-Zero detector at the Fermilab collider. The inclusive cross section has been measured for photons in the central rapidity region for transverse energies above 10 GeV. Studies of jets recoiling against the single photon permit the measurement of the fundamental hard scattering angular distribution, while an analysis of the rapidity correlations between high transverse energy photons and the leading jet probes the gluon x distribution.

Tuesday 24 October

TECHNICAL

PRESENTATION

at 10.00 hrs – CN Auditorium, bldg 31-3-004/5

LOOK! a dynamic, graphical, C++ runtime visualization

by Clive HARRIS / Objectif Software Technology

Organiser : S. Cannon / CN / 5036

Mercredi 25 octobre

PRESENTATION TECHNIQUE

de 10.00 à 16.30 h – Amphithéâtre AT, bât. 30, 7^e étage

Démonstration les produits suivants : tables optiques, lentilles, laser et accessoires, tables de positionnement, fibres optiques, optiques en général, systèmes de test pour l'optique

par Ealing (GB) représenté par Hilpert electronics AG (CH)

Langues : allemand, anglais et français

Renseignements: M. Diraison / FI-A / 4585

Wednesday 25 October

PS SEMINAR

at 11.00 hrs – PS Auditorium

CLIC, a study for a Compact Linear Collider

by J.-P. DELAHAYE / CERN-PS

EDUCATION SERVICES EDUCATIFS

ENSEIGNEMENT GÉNÉRAL

Tél. 5811

Jeudi 26 octobre

à 13.00 h – Amphithéâtre

Science pour tous

par Rafel CARRERAS

Reprise des séances.