

Le rapport annuel 1993 de la Caisse de pensions, qui a été approuvé par le Conseil lors de sa session du 24 juin 1994, est disponible dans les secrétariats de division.

Les bénéficiaires de pensions qui désirent obtenir ce document sont priés de s'adresser à l'Administration de la Caisse (tél. 767 27 38), bât. 5, 1-030.

The 1993 Annual Report of the Pension Fund, which was approved by Council at its session of 24 June 1994, is available from Divisional secretariats.

Pension beneficiaries who wish to obtain this document should contact the Administration of the Fund (tel. 767 27 38), bldg 5, 1-030.

SEMINARS SEMINAIRES

Tuesday 5 July

PRESENTATION

at 10.00 hrs – CN Auditorium

UNIFACE Six: Model Driven Development

by Uniface Lausanne

Uniface International was founded in Amsterdam in 1984. After two years of development the product UNIFACE went on the market at the beginning of 1987. Since that time Uniface has shown a continuous and tremendous growth regarding turn-over and staff. Today Uniface is the fastest growing European Software company in the technology independent 4GL market. Uniface has also shown great success in the USA. Here in Switzerland Uniface started with the headquarters in Basel in 1991, followed by subsidiaries in Zurich (Dietikon) 1992 and Lausanne in 1993.

Today UNIFACE is used for simple as well as very complex applications. Very often UNIFACE users integrate additionally different Soft and hardware systems. In the case where high investment, scalability and "mission critical" applications are necessary, UNIFACE is the right choice for the development environment. All UNIFACE applications are fully portable and technology independent.

Organizer : S. Cannon / CN / 5036

Wednesday 6 July

PS SEMINAR

at 11.00 hrs – PS Auditorium

A Practical Muon-Muon Collider?

by Robert PALMER / Stanford Linear Accelerator Center, USA

We assume a proton source similar to the KAON proposal, delivering 2 bunches (one for each muon sign) of 3×10^{13} 30 GeV protons at 10 Hz. About one pion of each sign is made for each proton that hits a target. Almost all of them decay to make a muon. A Monte Carlo calculation indicates that we can capture about 0.18 muons per proton (5×10^{12} muons).

Transverse ionization cooling (Skrinsky, 1980) is achieved by passing the muons alternately through a dissipative medium (Be) and an accelerator section. There is a minimum emittance (about 10^{-5} m) due to Coulomb scattering that depends on the medium and the focussing. Energy cooling is achieved with dispersion in the beam and a density gradient in the dissipative medium.

The muons can be accelerated in a recirculating accelerator, bunched, and stored (for about 1000 turns) in an isochronous storage ring. Parameters will be presented for a 2+2 TeV collider with a luminosity of $10 \times 34 \text{ cm}^{-2} \times \text{s}^{-1}$. The cost would be far less than that of an equivalent electron or proton machine, but there is a background problem in the detector.

Wednesday 6 July

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Monopoles at LEP-1! Dyons at LEP-2?

by Alvaro DE RÚJULA / CERN-TH

Electromagnetism would be a "more unified" theory if there were elementary magnetic monopoles and/or particles with both electric and magnetic charges (dyons). I discuss the simplest ways to append these bewitching entities onto the Standard Model, and their empirical consequences. Lower limits on the masses of monopoles and dyons stemming from their quantum effects on current observables turn out to be much stronger than the existing limits from direct searches. Anomalies in the three-photon decay of the Z constitute the most specific LEP-1 signature for monopoles or dyons. At LEP-2, T-odd observables in the W-pair production process are potential signatures for dyons, but they are severely constrained by existing data. "Monopolium" bound states and monopole cosmology will also be discussed.

Wednesday 6 July

COMPUTING SEMINAR

at 16.00 hrs – CN Auditorium

The Dynamic Behaviour of Parallel Programs

by R. CANDLIN / Univ. of Edinburgh

Is it feasible to interpret the performance of parallel programs in terms of various global features of the program? Experimental results for one particular type of parallel program suggest that it is. Standard design of experiment techniques show that the variance of process granularity plays an important role, both for predicting performance, and as an indicator of whether performance can be improved by process migration. The reasons for this result are discussed and related to the design of operating systems which support process migration.

Friday 8 July

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

Coherent phenomena in hard processes

by Mark STRIKMAN / Pennsylvania State University

Hard diffractive phenomena provide new information about interplay between soft and hard physics in high-energy strong interactions. Exclusive processes of diffractive production of vector mesons in deep inelastic scattering are calculated in QCD without free parameters. Arguments are given for the dominance of QCD aligned jet contributions in diffraction at HERA. Breakdown of QCD factorization in diffractive jet production in hadron-hadron scattering is explained.

INFORMATIONS GENERALES GENERAL INFORMATION

A VENDRE

3 dipôles supraconducteur

– diamètre libre : 200 mm

– longueur : 2,50 m

– champ au centre : 4,5 TESLA

– année de mise en service : 1975

– poids unitaire : environ 250 kg

Contacteur P. Lazeyras / 2125 ou 13/5041

A VENDRE

Racks isobutane standard d'occasion, révisés

– type 6 sorties : prix unitaire CHF 4500.-

– type 10 sorties : prix unitaire CHF 5500.-

Contacteur D. Fromm / 2332 ou 13/7038

F. Revelard / 3964 ou 13/7160

RECHERCHONS A RECUPERER

Nous serions très heureux de pouvoir récupérer des Blocking Oscillateurs - type MPS2812 (ou autre) anciennement disponibles dans les magasins CERN ou même uniquement leurs transformateurs.

Veuillez contacter J.J. CLOYE / PS au 3648 ou BIP 13+3140.

CERN PARTICLE PHYSICS SEMINARS

Please note that the Particle Physics Seminar to be held by Wilbur VENUS on 12 July has been postponed to 30 August.

REINTEGRATION – SÉCURITÉ SOCIALE FRANÇAISE ("retraites")

La prochaine permanence de la Sécurité sociale française aura lieu le

jeudi 7 juillet 1994 de 13h30 à 15h30

Salle de Conf. PE 1, 1er étage, Bât. 5.

Les personnes intéressées sont priées de prendre rendez-vous en téléphonant aux Affaires sociales (tél. 4479).

Affaires sociales
Division du Personnel

FOR SALE

Standard isobutan racks, second hand, reconditioned

– type 6 exits : unit price CHF 4500.-

– type 10 exits : unit price CHF 5500.-

Contact D. Fromm / 2332 ou 13/7038

F. Revelard / 3964 ou 13/7160

LOOKING TO RECUPERATE

We would be very glad to recuperate old Blocking Oscillators - type MPS2812 (or others) once standard in CERN stores or even only their transformers.

Please contact J.J. CLOYE / PS at 3648 or BIP 13+3140.