

Nous attirons particulièrement votre attention sur la confusion que peut entraîner l'usage du nom, de l'emblème, du papier à lettres, ou des enveloppes du CERN entre une activité privée (professionnelle, commerciale, politique, etc.) et celle pour le CERN.

Departement du Personnel

Your attention is drawn in particular to the confusion which may arise from the use of CERN's name, emblem, letterheads or envelopes, between a private professional, commercial, political, etc. activity and a CERN activity.

Personnel Department

SEMINARS SEMINAIRES

Monday 18 February

EP SEMINAR

at 16.30 hrs - Auditorium

**Prompt positrons at low Pj in
63 GeV pp collisions**

by Vincent HEDBERG/CERN-EP

The production of inclusive prompt positrons at low PT has been measured by the AFS-collaboration at the CERN ISR. The data show a strong increase in the positron/pion ratio below PT = 0.3 GeV/c which cannot be explained by the semi-leptonic decay of charmed particles, other known hadronic decays, or hadron bremsstrahlung.

Mardi 19 fevrier

PRESENTATION TECHNIQUE

09.00 h- 11.45 h et de 13.15 - 16.30 h (bat. 100, ATELPMCA)

HULFTEGGER & CO/AG (CH) propose une journée d'information et démonstration sur le thème Actualités en technique de soudage et de coupe :

- Equipement de soudage universel KEMPPI-MUL TISYSTEM - PS 3500 pour le soudage à Tare, MIG/MAG et TIG courant continu (SF).
- Appareil de soudage ELMA ANALOG C 400 P pour le soudage MIG/MAG - Pulsed Arc avec nouveau dispositif de programmation (D).
- Equipements de soudage ELMA ANALOG 05 à système modulaire - système de dialogue - microprocesseur - unité de puissance analogique transistorisée - enregistrement et conservation des paramètres (D).
- Nouvelle gamme d'appareils de soudage TIG compacts MIG ATRONIC série L TE et MTE (DK).
- Appareil de découpage Plasma SAF - Nertajet ZIP fonctionnant à l'air comprimé (F).
- Appareil de soudage MIG/MAG compact SAFMIG 250 BL pour le soudage de tôles fines (F).
- Poste de soudage à l'arc POWCON 400 SS, suivant technique d'onduleur: 400 Amp. - 29,5 kg (USA).

Langues: allemand, français
Renseignements : M. Diraison / FI / 4585

Tuesday 19 February

SPECIAL EP SEMINAR

at 14.30 hrs - Auditorium

**Observation of a neutrino signal from
Cygnus X-3 with the 1MB experiment**

by J.G. LEARNED / University of Hawaii"

PLEASE NOTE UNUSUAL DAY

Muons traversing the 1MB detector have been analysed from a 1.2 year sample and show a directional and temporal association with Cygnus X-3. There is also a correlation with a high flux period observed in TeV gamma rays in late 1983. The results are significant beyond the 3-sigma level. The simplest interpretation is that the muons are due to neutrinos of mean energy of 10 BeV coming from Cygnus X-3.

Tuesday 19 February

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium*

Do neutrinos decay? Do they oscillate?

by F. VANNUCCI / LPNHE, University of Paris VI & VII

Results of the experiment PS 191, which took data last July in the low energy PS neutrino beam, will be examined in the light of the above questions.

* Tea and coffee will be provided at 16.00 hrs.

Wednesday 20 February

PS SEMINAR

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

Status report on electron cooling at Novosibirsk

by N. DIKANSKI / Novosibirsk, USSR

The talk will cover: the current thinking on cooling techniques at Novosibirsk, some new possible experiments with electron cooling, a presentation of new cooling devices and a discussion of future plans. Possible applications will also be presented.

Wednesday 20 February

THEORETICAL SEMINAR

at 1*400 hrs - TH Conference Room

Hidden SU(8) symmetry in d = 11 supergravity

by H. NICOLAI / CERN

It is shown that the supersymmetry transformation rules and the field equations of d = 11 supergravity can be cast into a manifestly SU(8) covariant form. The emergence of 'hidden' symmetries in N = 8 supergravities in four dimensions can thus be directly understood from higher dimensions. Since the local SU(8) is chiral, this result may also have interesting implications for super-unification.

Wednesday 20 February

DD SEMINAR

at 16.00 hrs - DD Amphitheatre
(bldg. 31,3rd floor)

Database aspects during the development of the database for the personnel monitoring service

by M. REITENSPIESS

During the development of a new application system for the CERN film-badge service, database techniques were used in different ways. The requirements analysis resulted in a structured description of the necessary data using the entity-relationship model. The data structures were extended to abstract data types by operations to describe (dynamic) consistency conditions not expressible in the model and to define the envisaged user interface. The resulting set of abstract data types made up the specification of the system, which was discussed with the final users. Since the target computer (Nord-1000) supports a CODASYL database system (SIBAS), the entity-relationship description had to be transformed to a CODASYL description. This was done in a first refinement using an abstract set of database operations. The second refinement (implementation) consisted mainly in the transformation of the abstract operations to the actual available operations of the SIB AS database system. The use of the entity-relationship model resulted in a clear system structure which could be retained during all steps of the development process. The transition from the entity-relationship model to the CODASYL model turned out to be straightforward. The final implementation caused problems because of the unstructured call interface of the database system. These difficulties could only partially be resolved by an intermediate call level which abstracts from implementation details of the database system.

Thursday 21 February

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium*

Measurement of the electron asymmetry in the beta decay of the polarized sigma-minus hyperon. Results from a Tevatron experiment at Fermilab

by Per GRAFSTROM / CERN and University of Uppsala

The electron asymmetry from polarized sigma-minus beta decay and in particular its sign can be predicted in the Cabibbo model for semileptonic decay. Earlier measurements with polarized sigma-minus have persistently failed to confirm the theoretical expectations. As a part of a Tevatron experiment performed with a sigma-minus beam of about 20% polarization the electron asymmetry has been measured. The results from this measurement based upon an analysis of 25,000 beta decays will be presented.

* Tea and coffee will be provided at 16.00 hrs.

Monday 25 February

SPECIAL PS PRESENTATION

at 14.30 hrs - PS Auditorium (bldg. 6, 2-024)

Presentation of Cambridge Consultants Ltd. activities

by S.M. BOSE, Dr. M. MacLEOD,
M. STORY / Cambridge Consultants Ltd.

The talk will review all the commercial activities of the Company in design, development and consultancy services in areas such as : Analogue systems, radio frequency, A/D and D/A interfaces, semicustom IC design, real-time software, microprocessor applications, Digital Signal processing, mechanical and control engineering. Project examples will be given with emphasis on client relationships, and project management.

Mardi 26 fevrier

PRESENTATION

a 14.00 h - Amphitheatre DD (bat. 31, 3^e et.)

Les micro-ordinateurs Olivetti M21 et M24

par Olivetti (Suisse) SA

Wednesday 27 February

LEP SEMINAR

at 14.30 hrs - LEP Auditorium (bldg. 30, 7th fl.)

Tracking algorithms

by Ch. ISELIN / CERN-LEP

Wednesday 27 February*

DD SEMINAR

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

Electronic mail at CERN : the end of COMICS ?

by Ulf BEYSCHLAG

* POSTPONED FROM 6 FEBRUARY

Thursday 28 February

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

Charmonium spectroscopy at the ISR

J.-P. GUILLAUD / LAPP, Annecy