

VISAS FRANCAIS POUR LES MEMBRES DU PERSONNEL RESIDANT EN FRANCE

Depuis 1986, le Gouvernement français a institué l'obligation du visa pour les personnes originaires de certains pays. Les chercheurs étant obligés de traverser fréquemment la frontière pour des raisons professionnelles, le CERN est intervenu auprès des autorités françaises qui ont alors décidé d'accorder des visas de deux mois aux intéressés pour plusieurs entrées et sorties. Cette facilité n'avait pas été, cependant, étendue aux membres de leurs familles.

Le CERN ayant poursuivi les discussions, les autorités françaises ont maintenant décidé d'accorder progressivement, à compter du 1er novembre 1989, aux membres du personnel et à leurs familles, titulaires d'un document de légitimation délivré par le Ministère des Affaires étrangères, un visa valable pour une année et pour plusieurs voyages. Il est précisé que cette facilité s'appliquera au passage de la frontière entre la France et la Suisse.

Relations avec les Pays-hôtes
Tél. 5152

FRENCH VISAS FOR MEMBERS OF THE PERSONNEL RESIDENT IN FRANCE

In 1986 the French Government introduced compulsory visas for nationals of some countries. Since CERN staff and users often have to cross the frontier in the course of their work, CERN discussed this matter with the French authorities. As a result, they decided to issue two-month multiple entry/exit visas. This facility was, however, not extended to members of families.

After further discussions, the French authorities have now decided, from 1 November 1989, to phase in one-year multiple-entry/exit visas to members of the personnel and their families with credentials issued by the Ministry for Foreign Affairs. It should be noted that these visa facilities will apply only to border crossings between France and Switzerland.

Relations with the Host States
Tel. 5152

SEMINARS SEMINAIRES

Friday 15 September

CERN PARTICLE PHYSICS SEMINAR

at 15.00 hrs* - Auditorium

**First physics results from the Mark-II
at the SLC**

by Jordan NASH / SLAC

Details of the analysis of the first five months of data taking at the SLC will be presented. Measurement of the mass of the Z^0 , total width, and partial width to invisible light fermions will be discussed. Properties of the hadronic and leptonic decay modes and searches for new particles will also be shown.

* Please note change of time!

Monday 18 September

EP SEMINAR

at 16.30 hrs - Auditorium

**Recent results on jet physics and tests of QCD
in e^+e^- annihilations**

by Siegfried BETHKE / University of
Heidelberg

Production rates of multijet hadronic final states in the center of mass energy range of 22 GeV to 9 GeV, containing results from PETRA, PEP, TRISTAN and the SLC, are shown to provide powerful tools to test specific predictions of Quantum Chromodynamics and to adjust the free parameters of the theory. Optimal description of the observed multijet production rates can be achieved by adjusting both the renormalisation scale Q^2 and the scale parameter $\Lambda(\overline{MS})$ in second order perturbative QCD. The optimised Q^2 turns out to be small (3% to 6% of E_{cm}^2), which is considerably smaller than the usual choice of $Q^2 = E_{cm}^2$. The implications of this result on determinations of $\Lambda(\overline{MS})$ are discussed. Tests of the nonabelian nature of QCD are presented, including detailed studies of jet dynamics and comparisons to an abelian, QED-like theory, tests of the existence of the gluon self-coupling and a verification of the running coupling constant, α_s . The experimental data clearly favour the predictions of perturbative QCD, while an abelian theory or the hypothesis of an energy independent coupling constant are not adequate to describe the data.

Mardi 19 septembre

PRESENTATION TECHNIQUE

de 09.30 à 16.00 h – bât. 6, 2-004

Radiophone SA (CH) propose en exposition démonstration des systèmes de sécurité, de contrôle d'accès et de gestion informatisée des bâtiments.*

Matériels

Appareils de démonstration contrôle d'accès et gestion des alarmes (CH, USA) – Ordinateurs VIP 200 (CH) – système de code aléatoire et lumineux (USA) – Vidéo set (D) – Portier vidéo (D).

* CH-1020 Renens, tél. : 021/635 45 11.

Langues : allemand, anglais, français

Renseignements : M. Diraison / FI / 4585

Tuesday 19 September

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

A new measurement of ϵ'/ϵ by FNAL E731

by Taku YAMANAKA / FNAL

Fermilab E731 has analysed 20% of the total sample to measure the CP violation parameter ϵ'/ϵ . The result is consistent with zero, which is different from the CERN NA31 result. Details of the analysis and systematic errors will be given in the talk.

* Tea & coffee will be served at 16.00 hrs.

Wednesday 20 September

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Gravitino interactions and non-linear realization of supersymmetry

by F. FERUGLIO / Università di Padova

The case of very large (infinite) vacuum curvature of the Kahler manifold of $N = 1$ spontaneously broken supergravity is presented. In this limit gravitino interactions become strong and are described by an effective Lagrangian consisting of a non-linear realization of supersymmetry, characterized by a simple supersymmetric constraint. The relation with the Volkov-Akulov model is discussed. The analogy with a similar mechanism occurring in spontaneously broken gauge theories is stressed.

Thursday 21 September

TECHNICAL PRESENTATION

09.00 to 12.00 hrs – EF Conference Room
bldg 13, 2-005

Apex Seminar on High Performance Power Operational Amplifiers

Construction – Limits and their influences, slew rate, current limit, etc. – Stability and compensation, sources of instability, tricks, etc. – Protection,

in/output, temperature, SOA (saving operating area) – High speed technology, slew rate, setting time – General applications, single supply, bridge mode drive – Specific applications, motor controls, test equipment, etc.

Apex (USA) is represented by Hemar AG, CH-1008 Prilly, tel. 021/2588 77.

Language : English

Information : M. Diraison / FI / 4585

Monday 25 September

PRESENTATION

at 10.30 hrs - LEP Auditorium
bldg 30, 7th floor

Network backup and account management products for Apollo computers

by Carol ROSENSTOCK / Apollo,
Chelmsford, Mass., USA

Carol Rosenstock is currently Project Manager at Apollo in Chelmsford, with responsibility for development and support of network backup systems. She will talk about OMNIBACK (Apollo network backup system) and 'Pass Word'. In the first part of the seminar, the principles of OMNIBACK will be discussed in detail, along with an appraisal of update storage devices, video tapes and optical discs. Pass Word deals with 'User Account Management Systems'. The purpose of this visit is to present to CERN Apollo Users the fundamental principles and advantages of these two recently introduced products on the market. The second part of the seminar will be an open question and answer session to help Apollo understand CERN's requirements on these two subjects.

Information : A. Silverman / DD

Tuesday 26 September

TECHNICAL PRESENTATION

10.00 to 16.00 hrs – bldg 6, 2-004

Amotec Electronic AG (CH) will exhibit RF and microwave products (GB, USA)

Languages : English, French

Information : M. Diraison / FI / 4585

Tuesday 26 September

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Recent results from CDF and future prospects

by J. YOH / FERMILAB

Thursday 28 September

SPS SEMINAR

at 11.00 hrs – SPS Auditorium
bldg 864, 1st floor

**Single shot longitudinal profile of short
bunches (100 ps) : preliminary studies**

by André ROSOWSKY / CERN

Thursday 28 September

CERN COLLOQUIUM

at 16.30 hrs – Auditorium

SN 1987A – the second year

by I.J. DANZIGER / ESO

TRAINING AND EDUCATION ENSEIGNEMENT

ACADEMIC TRAINING

Tel. 2844-3364

1989-1990 PROGRAMME

1st Term

16, 17, 18, 19 & 20 octobre

11.00 à 12.00 h – Amphithéâtre

Les grandes tendances de l'économie depuis

J.M. Keynes (*in French*)

by B. BÜRGENMEIER

2 & 3 November

11.00 to 12.00 hrs – Auditorium

Global weather forecasting

by D. BURRIDGE / European Centre for
Medium-Range Weather Forecasts, Reading

14, 15, 16 & 17 November

11.00 to 12.00 hrs – Auditorium

More particle physics for non-particle physicists

by M. JACOB / CERN-TH

27, 29 & 30 November

11.00 to 12.00 hrs – Auditorium

The future of fixed target experiments

by A. DONNACHIE / University of
Manchester

4, 5, 6 & 7 December

11.00 to 12.00 hrs – Auditorium

Introduction to the standard model

by C. JARLSKOG / University of Stockholm
& CERN-TH

11 & 12 December

11.00 to 12.00 hrs – Auditorium

Accelerators for the 21st Century

by E.J.N. WILSON / CERN-PS

18, 19, 20, 21 & 22 December

11.00 to 12.00 hrs – Auditorium

**Differential algebra and its use in
accelerator theory**

by M. BERZ / Lawrence Berkeley Laboratory

*The lectures are open to all those interested, without
application.*

*The abstract of the lectures, as well as any change to
the above information (title, dates, time, place, etc.), will
be published in the CERN Bulletin and by Notices
before each series of lectures.*