

the proper time distributions of mixed and unmixed candidates. The various ALEPH analyses will be reviewed and discussed, with an emphasis on Δm_S results. Measurements of Δm_D have been obtained from dilepton, inclusive lepton, and D^* events. Searches for B_s oscillations have been performed using dilepton and inclusive lepton samples, as well as lepton-kaon correlations, yielding lower limits on Δm_S . The principle of a new method to combine Δm_S limits will also be presented.

Tuesday 3 October

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium*

Electroweak Physics with Quarks at DELPHI

by Klaus MOENIG / CERN

Measurements using identified quark final states at LEP are important test of the Standard Model of electroweak interactions.

Forward-Backward asymmetries of quarks have turned out to be one of the most precise determinations of the weak mixing angle $\sin^2 \theta_{\text{eff}}$. Contrary the ratio of the cross section for the production of a specific quark flavour to the total hadronic cross section depends only on the details of the Z couplings to the specified flavour. Especially for b-quarks these couplings receive important contributions from top-quark loops of Supersymmetry.

In this talk measurements of quark asymmetries and partial widths with the DELPHI detector are presented, which use up to 3 million hadronic Z-decays recorded in 1991 to 1994.

The results are compared to those of the other LEP collaborations and to the predictions of the Standard Model.

* Tea & coffee will be served at 16.00 hrs.

Wednesday 4 October

COMPUTING SEMINAR

at 16:00hrs – CN Auditorium, bldg 31/3-005

Highlights from CHEP '95

by Julian Bunn / CERN

The speakers will review the presentations given at this year's Computing in High Energy Physics (CHEP) conference, both from a general point of view and in their specific areas of interest.

Organiser : G.Folger / CN

Thursday 12 October

CERN COLLOQUIUM

at 16.30 hrs - Auditorium*

The use of heavy charged particles in the radiation therapy of tumors.

by Gerhard KRAFT / GSI Darmstadt, Germany

* Tea & coffee will be served at 16.00 hrs.

EDUCATION SERVICES EDUCATIFS

1995 – 1996 ACADEMIC TRAINING PROGRAMME

1ST TERM

2ND OCTOBER – 15 DECEMBER 1995

LECTURE SERIES FOR POSTGRADUATE STUDENTS

2, 3, 4, 6, 10, 11, 13, 16, 17, 18 & 19 October

11.00-12.00 hrs – Auditorium

Introduction to particle accelerators

by E.J.N. Wilson / CERN-AC

6, 7, 8, 9 & 10 November

11.00-12.00 hrs – Auditorium

Introduction to detectors

by A. H. Walenta (Univ. of Siegen, D)

4, 5 & 6 December

11.00-12.00hrs - Auditorium

Supersymmetry and particle physics

by H.P. Nilles (Technische Univ. München, D)

23, 24, 25, 26 & 27 October

11.00-12.00 hrs – Auditorium

Introduction to gauge theories in the Standard Model

by B. De. Wit (Rijksuniv. Utrecht, NL)

20, 21, 22, 23 & 24 November

11.00-12.00 hrs – Auditorium

except 21 in the Council Chamber

Quantum chromodynamics

by H. Leutwyler (Univ. of Bern, CH)

The lectures in both series 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, the WWW, and by Notices before each Term and for each series of lectures.

LANGUAGE TRAINING

Secretariat: tel.3127 (afternoons only)

GENERAL FRENCH COURSES

These courses are open to all persons working on the CERN site and to their spouses.

They are ranging from beginners (level 1) to advanced (level 9), with 3 - 6 hours of classes per week depending on the level. First term 95/96 from 9 October to 15 December 1995.

Price: Fr. 12,- per hour per person, i.e. Fr. 360,- to 720,-.

SPECIFIC FRENCH COURSES

These courses are designed for **non-French** speakers with a **good standard of spoken French**.

- Preparing professional documents (4 different levels)

Duration: 30 hours (3 hours per week)

Price: Fr. 660,-

- French for meetings

Duration: 28 hours (4 hours per week)

Price: Fr. 620,-

Short courses, in modules of 10 hours

These courses are not suitable for beginners - successful attendance at general French courses for at least 60 hours is necessary.

They will take place throughout the year according to demand. They may be followed **independently or in parallel** with a general French course.

- Course in oral expression

Duration: 10 hours (2 hours per day for one week)

Price: Fr.220,-

- Oral comprehension

Duration: 10 hours (2 hours per day for one week).

Price: Fr.220,-

- Writing

Duration: 10 hours (2 hours per day for one week).

Price: Fr.220,-

- Grammar

Duration: 10 hours (2 hours per day for one week).

Price: Fr.220,-

- Telephone

Duration: 10 hours (2 hours per day for one week).

Price: Fr.220,-

- Pronunciation, phonetics

Duration: 10 hours (1hour per day for two weeks).

Price: Fr.220,-

ASSISTED SELF-STUDY

This approach allows students to adapt their learning to their individual needs and to work at their own speed whenever they have time at their disposal.

IT IS NOT SUITABLE FOR BEGINNERS.

The students enrol for six months at any time in the year.

Price: Fr. 850,- including a self-study introduction course, two tutorials, a group session, the loan of various learning materials, and access to a resource centre.

For more detailed information, please contact Moniek Laurent, Head of Self-Study, tel: 8143.

To enrol, you should fill in an "Application for Training" form which may be obtained from your Divisional Secretariat or the "Users' Office" (bldg 61/R-020). For further information, please consult the brochure "French Training" available at your Divisional Secretariat.

FORMATION EN LANGUES

Secrétariat: tél. 3127 (après-midi seulement)

COURS D'ANGLAIS GENERAL

Ces cours s'adressent à toute personne travaillant au CERN ainsi qu'aux conjoints.

Ils couvrent tous les niveaux (de débutant à avancé), à raison de 4 à 6 heures par semaine selon le niveau.

Premier trimestre 95/96: du 9 octobre au 15 décembre 1995.

Prix: Fr.12,- de l'heure par personne soit de Fr.480,- à Fr. 720,-.

COURS D'ANGLAIS SPECIFIQUE

- Anglais pour réunions

Durée: 28 heures (4 heures par semaine pendant 7 semaines)

Prix: Fr.620,-

- Faire des exposés

Durée: 28 heures (4 heures par semaine pendant 7 semaines)

Prix: Fr.620,-

- Anglais écrit

Durée: 28 heures (4 heures par semaine pendant 7 semaines)

Prix: Fr.620,-

- Anglais pour contacts techniques

Des cours seront organisés à la demande.

Les cours mentionnés ci-dessus s'adressent à des personnes ayant un bon niveau d'anglais parlé.

- Anglais pour secrétaires

Du niveau intermédiaire à avancé selon la demande.

Durée: 28 heures (4 heures par semaine pendant 7 semaines).

Prix: Fr.620,-

- Anglais pour informatique

Cours 1: 80% d'anglais général et 20% d'anglais spécifique.

Niveau débutant en anglais parlé.

Durée: 60 heures (6 heures par semaine pendant 10 semaines).

Prix: de Fr. 1080,- à 864,- selon le nombre de participants.

Cours 2: (1ère et 2ème partie)

Niveau intermédiaire en anglais parlé.

Durée: 28 heures (4 heures par semaine pendant 7 semaines).

Prix: Fr.620,-

Cours 3:

Niveau avancé en anglais parlé.

Durée: 28 heures (4 heures par semaine pendant 7 semaines).

Prix: Fr.620,-

- Expression orale

Durée: 15 heures (3 heures par jour du 18 au 22 septembre / 14h-17h).

Prix: Fr.290,-

AUTOFORMATION ASSISTEE

Cette formule permet l'adaptation de l'apprentissage aux besoins individuels et le travail à un rythme personnel.

ELLE NE CONVIENT EN AUCUN CAS A DES DEBUTANTS.

L'apprenant s'inscrit pour un an à tout moment de l'année.

Prix: Fr. 1.180,- comprenant un stage de mise en autonomie (20 h), 3 séances de tutorat, 3 activités de remotivation, 2 séances de regroupement, le prêt de matériel et l'accès à la salle de ressources.

Pour toute information complémentaire, contacter Ulrich Liptow, Responsable de la formation en anglais, tél: 2957 ou Moniek Laurent, Responsable de l'autoformation, tél: 8143.

Pour de plus amples informations, consultez la brochure "Formation en anglais" disponible à votre secrétariat de division et au "Bureau des Utilisateurs" (bât.61/R-020) où vous trouverez également le formulaire "Demande de formation", à remplir pour toute inscription.