

SEMINARS

SEMINAIRES

TUESDAY 14 JULY

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium *)

"The Fly's-Eye, a Device to Study
 10^{18} eV Interactions"

by J.W. Elbert / The University of Utah,
Salt Lake City

Abstract : The Fly's-Eye is an optical-electronic system designed to detect scintillation and Cherenkov light from 10^{17} - 10^{20} eV cascades in the atmosphere. These cosmic ray air showers are observed at night using 48 1.5 m diameter mirrors. High energy physics goals of the system include measuring the proton-air inelastic cross-section and testing Feynman Scaling at lab. system energies near 10^{18} eV. The system has been operated at Dugway, Utah, U.S.A., for more than 10 months. Very preliminary results on the longitudinal development of air showers will be shown.

*) Note : Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 16.00 hrs to meet the speaker and for informal discussions. Tea and coffee will be provided.

WEDNESDAY 15 JULY

THEORETICAL SEMINAR

at 14.00 hrs - Theory Conference Room

" 't Hooft's condition as a consequence
of analyticity and unitarity"

by S. Coleman / Harvard

Abstract : A derivation of 't Hooft's consistency condition from the principles of "axiomatic S matrix theory".

THURSDAY 16 JULY

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium *)

"Observation of fractional charge of $1/3$ e
on matter"

by W.M. Fairbank / Stanford Univ.

Abstract : In a superconducting magnetic levitation experiment fractional residual charges of $1/3$ e have been observed on several niobium spheres. Extensive measurements and critical analysis have assured us that the background forces are either negligible or have been measured and taken fully into account. The details of the experiment will be discussed.

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MONDAY 20 JULY

ISR SEMINAR

at 14.30 hrs - ISR Auditorium
(Top floor of Building 30)

"Some Implications for LEP of the
Beam-Beam Interaction"

by R. Talman / CERN-Cornell

EP SEMINAR

at 17.00 hrs - Auditorium

"Hadron-Nucleus Interactions at
High Energies"

by Kersten Braune / MPI, Heidelberg

TUESDAY 21 JULY

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"Hard Scattering of Hadrons"
(Rapporteur Talk given at the EPS
Conference, Lisbon)

by H.G. Fischer / CERN

TRAINING AND EDUCATION ENSEIGNEMENT

JEUDI 16 JUILLET

ENSEIGNEMENT GENERAL

13h00/13h30 - Amphithéâtre

"Science pour Tous"

par R. Carreras

SUMMER STUDENT LECTURES

<u>Date</u>	<u>Time</u>	<u>Title</u>
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This week :

15.7 -	8.30	Opening Session
	10.00	W. Blair - "Presenting CERN"
	11.15	H. Hilke - "Electronic detectors and nuclear instrumentation" (1)

16.7 -	8.30	C. Curran - "Introduction to CERN's central computing facilities"
	10.00	R. Salmeron - "High energy physics experiments"
	11.15	H. Hilke - "Electronic detectors and nuclear instrumentation" (2)
17.7 -	8.30	G. Stevenson - "Radiation protection"
	10.00	H. Hilke - "Electronic detectors and nuclear instrumentation" (3)
<i>Next week :</i>		
20.7 -	8.30	-
	10.00	F. Bourgeois - "Electronic detectors and nuclear instrumentation" (4)
	11.15	V.F. Weisskopf - "Particles and symmetries" (1)
21.7 -	8.30	F. Bourgeois - "Electronic detectors and nuclear instrumentation" (5)
	10.00	J. Petersen - "Electronic detectors and nuclear instrumentation" (6)
	11.15	V.F. Weisskopf - "Particles and symmetries" (2)
22.7 -	8.30	J. Petersen - "Electronic detectors and nuclear instrumentation" (7)
	10.00	D. Jacobs - "Electronic detectors and nuclear instrumentation" (8)
	11.15	V.F. Weisskopf - "Particles and symmetries" (3)
23.7 -	8.30	D. Jacobs - "Electronic detectors and nuclear instrumentation" (9)
	10.00	B. Zacharov - "Computer systems hardware" (1)
	11.15	V.F. Weisskopf - "Particles and symmetries" (4)
24.7 -	8.30	Hilke/Bourgeois/Petersen/Jacobs/Rimmer - "Electronic detectors and nuclear instrumentation" (10) <u>Demonstration</u>
	10.00	B. Zacharov - "Computer systems hardware" (2)
	11.15	-

All the lectures are held in the Auditorium and given in English.

Fellows and Associates Service/
Tel. 4471

COURS DE LANGUES

1981-1982

LANGUAGE COURSES

1. COURS D'ANGLAIS

1.1 Cours annuels

1.1.1. Tous niveaux sauf débutants

Le bulletin d'inscription et les détails des cours (dates, horaires etc.) débutant en septembre 1981 et prenant fin en avril 1982 ne feront pas l'objet d'une distribution générale mais sont disponibles dans les Secrétariats de Division.
(N.B. Bulletin d'inscription jaune.)

Les participants aux cours en 1980-1981 ayant déjà exprimé leur désir de se réinscrire en 1981-1982 ne sont pas tenus de remplir un nouveau bulletin d'inscription.

1.1.2. Débutants

En plus des conditions pédagogiques requises pour que l'apprentissage d'une langue étrangère soit aussi efficace que possible, d'autres facteurs (nombre d'heures par semaine, fréquence des leçons, etc.), jouent un rôle non négligeable surtout aux niveaux élémentaires.

Pour ces raisons, peu de cours pour débutant ont été proposés ces dernières années en dehors des cours semi-intensifs officiels, le planning de ces cours ne permettant pas d'offrir plus de quatre heures par semaine.

Un nombre croissant de demandes à ces niveaux, en dehors du cadre des cours semi-intensifs nous incite à proposer à titre expérimental un cours pour débutants d'une durée totale réduite mais davantage d'heures par semaine.

Les modalités précises de ce cours sont indiquées sous le sigle EN1D sur la liste complète des cours pour 1981-1982 disponible avec les bulletins d'inscription dans les Secrétariats de Division.

1.2. Cours semi-intensifs

Les informations relatives à ces cours se trouvent sur les bulletins d'inscription bleus, également disponibles dans les Secrétariats de Division.

2. FRENCH COURSES

The application form and details of the courses offered in 1981-1982 will not automatically be distributed to all Staff Members but are available from the Divisional Secretariats.

(N.B. yellow application form.)

The participants in the 1980-1981 courses having already expressed their desire to re-enrol in 1981-1982 are not required to complete a new application form.