

SEMINARS SEMINAIRES

Tuesday 23 July

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Towards a unified field theory of all interactions

by John H. SCHWARZ / California Institute of Technology, Pasadena

Many theorists share an immodest objective – to find a theory that explains everything. The special feature of the approach to be described is that the fundamental objects are ‘strings’ rather than points. This automatically leads to a quantum theory including gravity that appears to be finite and consistent. It has no arbitrary dimensionless parameters, and the Yang-Mills group is uniquely determined.

* Tea and coffee will be provided at 16.00 hrs.

Wednesday 24 July

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Reduction of field theories in coupling parameter space

by Reinhard OEHME / CERN and Chicago

Field theories with many coupling parameters are reduced to one-parameter theories using renormalization group methods.

Applications : gauge theories with a simple minimal coupling parameter for Yang-Mills and matter fields; emergence of theories with $N=2$ or $N=4$ extended supersymmetry and of new non-symmetric theories from the same multilparameter Lagrangian. Renormalized theories with $j^n(\log g)^m$ -terms in the expansion.

Phenomenological : calculations of top-quark and Higgs meson masses.

Tuesday 30 July

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Perspectives for 1.6 TeV collisions this summer at Fermilab

by Carlos HOJVAT / Fermilab

Summer Student Lectures

DATE	TIME	LECTURER	TITLE
THIS WEEK			
Mon. 22 July	08.30	–	
	10.00	W. Bell / A. Bogaerts / D. Burckhart / C. Fabjan	Electronics detectors, instrumentation and data acquisition (8) (Demonstration)
	11.15	–	
Tue. 23 July	08.30	–	
	10.00	–	
	11.15	V. Weisskopf	Introduction to the concepts of particle physics (9)
Wed. 24 July	08.30	–	
	10.00	–	
	11.15	V. Weisskopf	Introduction to the concepts of particle physics (10)
Thu. 25 July	08.30	–	
	10.00	–	
	11.15	V. Weisskopf	Introduction to the concepts of particle physics (11)
Fri. 26 July	08.30	–	
	10.00	–	
	11.15	V. Weisskopf	Introduction to the concepts of particle physics (12)

NEXT WEEK

Thu. 1 August	08.30	—	
	10.00	R. Klanner	Silicon detectors (1)
	11.15	F. Vannucci	Neutrino experiments beyond the standard model
Fri. 2 August	08.30	—	
	10.00	R. Klanner	Silicon detectors (2)
	11.15	W. Willis	Melting the vacuum

All lectures are given in English and are held in the Auditorium. Fellows and Associates Services (4471).

TRAINING AND EDUCATION ENSEIGNEMENT

COURS DE LANGUES 1985-1986

COURS D'ANGLAIS

Un dépliant a été préparé pour donner certaines informations que les éventuels intéressés sont en droit d'attendre avant de demander leur inscription même à titre provisoire.

Ces renseignements sont présentés sous les rubriques suivantes :

1. Apprentissage d'une langue étrangère

- 1.1. "Miracles"
- 1.2. Les conditions de succès

2. Les cours d'anglais du CERN

- 2.1. Conception des cours du CERN
- 2.2. Démarche pédagogique
- 2.3. Le "contrat animateurs-participants"

3. Structure actuelle des cours du CERN

- 3.1. Types de cours : durée, fréquence, horaires, taxes d'inscription, etc.
- 3.2. Autres possibilités

4. Procédure d'inscription provisoire

Le dépliant contient également les bulletins d'inscription provisoire pour les cours qui débiteront en septembre 1985.

Les détails exacts des dates, horaires, etc. ne sont pas inclus, puisque le choix du cours dépend du niveau et des besoins linguistiques de la personne concernée.

LANGUAGE COURSES 1985-1986

FRENCH COURSES

A folder has been produced containing details which prospective students can expect to be given before enrolling even provisionally.

This information is presented under the following headings :

1. Learning a foreign language

- 1.1. "Miracles"
- 1.2. Conditions of success

2. French courses at CERN

- 2.1. Basic concept
- 2.2. Teaching approach
- 2.3. The "contract between teachers and students"

3. Present structure of CERN courses

- 3.1. General courses : duration, frequency time tables, fees, etc.
- 3.2. Courses designed for particular needs

4. Procedure for provisional enrolment

The folder also contains the provisional application form for the courses due to begin in September, 1985.

The exact details of dates, time-tables, etc. are not included because the choice of course depends on the level and the linguistic needs of the person concerned.