

collisions : ionization, dE/dX , X-rays and channelling (Aarhus Univ.-CERN-PSI-Stockholm MSI; PSCC/89-5/P64Add. 4; K. Elsener).
 PS 196 : Precision comparison of p and $\bar{p}$ masses in a Penning Trap (Harvard Univ.-Mainz Univ., Inst. of Physics-Univ. of Washington; G. Gabrielse).

PS 201 : Study of p and n annihilations at LEAR with OBELIX, a large acceptance and high resolution detector based on the Open Axial Field Spectrometer (Bologna Univ./INFN-Brescia Univ.-Cagliari Univ.-CERN-Dubna JINR-Frascati Nat. Lab./INFN, Legnaro Nat. Lab. INFN, Orsay CSNSM, Padua Univ./INFN, Pavia Univ./INFN, Trieste Univ./INFN, Turin Univ./INFN-Udine Univ./INFN; PSCC/89-2/M294).

Closed session

Tuesday 14 February
 at 09.00 hrs - 6th floor Conference Room,
 Main building

TRAINING AND EDUCATION ENSEIGNEMENT

Mardi 7 février

LES SCIENCES AUJOURD'HUI

à 20.00 h précises - Amphithéâtre

(jusqu'à environ 22.00 h)

par R. CARRERAS

Rafel Carreras, responsable du programme d'Enseignement général au CERN, commentera et expliquera un choix d'articles parus récemment dans des revues scientifiques, et qui couvrent l'ensemble des sciences physiques et biologiques ainsi que certains aspects des relations science-société. Une attention particulière est portée au langage et aux notions utilisés afin que les explications et les commentaires soient accessibles aux personnes n'ayant pas de formation scientifique.

Entrée libre

(Please note that the lecture will be given in FRENCH)

Service des Relations Publiques
 Tél. 2722

ENSEIGNEMENT GENERAL

Tél. 2844-5811

Jeudi 9 février

de 13.00 h à 13.30 h - Auditorium

Science pour tous

par R. CARRERAS

Monday 13 February

EP SEMINAR

at 16.30 hrs - Auditorium

New results from $p\bar{p}$ annihilation at rest

by R. LANDUA / CERN

The ASTERIX experiment (PS 171) at LEAR has pioneered the study of $p\bar{p}$ annihilations at rest from atomic P states. The comparison of several two-body branching ratios (nn , KK , $\rho\rho$, $n\bar{n}$) for annihilation with initial angular momentum $L = 1$ (P wave) and $L = 0$ (S wave) exhibits a strong dependence on the angular momentum and the isospin of the initial state. Theoretical models, based on quark-antiquark annihilation and rearrangement, start to provide qualitative explanations for some of the observed 'dynamical' selection rules. The suppression of the annihilation channel $p\bar{p} \rightarrow T\bar{T} \sim E(1420)$ from atomic P states suggests a pseudo-scalar nature of the $E(1420)$ meson.

ACADEMIC TRAINING

Tel. 2844-2460

7, 8, 9 & 10 February

11.00 to 12.00 hrs - Auditorium

Models of the brain memory

by M. MEZARD / Ecole Normale Supérieure,
 Paris

14,15,16&17 February

11.00 to 12.00 hrs - Auditorium

**Introduction to particle physics
 for non particle physicists**

by M. JACOB / CERN-TH

This introduction to particle physics will consist of three parts.

The first will be a general introduction to particle physics as it is today, its recent achievements and the questions under study, facts and hopes.

The second will be a review of particle physics as it developed over the past forty years. How we gradually understood the weak interactions, the strong interactions and the inner structure of the proton.

The third part will cover the connections between particle physics and cosmology.



COURS / SEMINAIRES
COURSES I SEMINARS

OS9 OPERATING SYSTEM

From February 27 to March 3-9 a.m. to 5.30 p.m.

OS9 is an multi-works multi-users operating system running on **G64** machines. The seminar will be devoted to machines equipped with **68000** microprocessor.

It is aimed at electronicians who have already a large experience in using microprocessors and a good knowledge of programming. Some knowledge of assembling language will be helpful.

The number of participants is limited to **8**. The participation is subject to a financial contribution of the division of SF 750,- per person.

The seminar will be given in English by specialized engineers of Ecrin-Automatismes - Grenoble

Note : Deux sessions en français auront lieu en mars et mai. L'information sera publiée ultérieurement.

VM/CMS I (in English)

10 x 3 h. seminar

From February 27 to March 3-5 p.m. to 8 p.m.

From March 13 to 17 -1 p.m. to 4 p.m.

This seminar aims to provide a solid background for those wishing to use VM/CMS in an efficient way.

This seminar is aimed at the members of those (physics/engineering) groups who works on the IBM/SIEMENS computers. No knowledge of VM/CS nor any programming knowledge is required. Previous use of WYLBUR would be helpful.

The number of participants is limited to **16**.

Teacher : A. Ballanti / DD

Application form for these two seminars can be obtained from the Technical Training Secretariat. The dead-line for enrolment is fixed on February 17. Enrolment is subject to the Group Leader approval.

TRAINING & EDUCATION SERVICES

COMMUN JCAT ION

SKULLS

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Sf*f?ING

COURS DE COMMUNICATION — PRINTEMPS 1989

The Joint Training Board would like to advise all staff that active consideration is being given to the development of Management Training and related topics, as proposed in the 1988 CERN Training Plan which was approved by the Management Board in November (copies available later this month)» Further information will be published in the Meekly Bulletin in due course. Meanwhile the JTB would like to draw the attention of ail Group Leaders to the Programme of Communications Skills, which is open to all members of their staff (see details below) These seminars were originally announced in August 1933? and while some are almost full, there are places on others as indicated, Group leaders may wish to bear in mind the-existence of these seminars as they prepare for the 1939 performance appraisal interviews **

Les recommandations da Plan de Formation CERN **1988** ont été approuvées en novembre dernier par le Management Board, (Des copies seront à disposition dans le courant du mois). A ce propos, la Commission Paritaire de Formation et de Perfectionnement tient à informer l'ensemble du Personnel qu'une

attention toute particulière sera donnée au développement de la -formation au Management et autres sujets associés, Des informations complémentaires seront publiées en temps utiles dans le bulletin hebdomadaire*
D'autre part la CFPF rappelle aux Chefs de groupe qu'un programme de formation à la communication est ouvert à tout le personnel (voir détails-ci-dessous)» Elle leur recommande d'en tenir compte au moment où ils prépareront les entretiens d'appréciation pour 1989,
Le programme avait fait l'objet d'une première publication dès août 1988 et il reste encore quelques places dans certains séminaires, comme indiqué ci-dessous»

Effective

Communication

- 13, 14 & 27, 28 April 1987
- 25, 26 May & 8, 9 June 1989

Communication efficace

- 26, 27 janvier & 23, 24 février 1989 (complet)
- 25, 26 mai & 15, 16 juin 1989 (complet)

Communication efficace, niveau II

- 8, 9 juin 1989

Techniques d'encadrement

- 10, 11, 12 et 30, 31 .janvier 1989 (complet)

Superviser

- 25, 26 avril 1989

Les relations interpersonnelles dans le cadre du travail

- 17, 18, 19 avril 1989

Interpersonal communication in the work environment

- 11, 12, 13 April 1989

Les relations interpersonnelles dans le cadre du travail, II

- 6, 7, 8 mars .1.989

*Members of staff who would like to attend one of these seminars should first contact their immediate supervisors **

La Commission invite également les membres du personnel souhaitant suivre un de ces cours, d'en parler au préalable à leur supérieur hiérarchique»

The Training & Education Services are at your disposal for any further information you may require about the above-mentioned programmes (detailed description of each seminar, application forms, etc),

Les Services Educatifs sont à votre disposition pour vous donner toute information complémentaire sur ces **deux** programmes, (description détaillée de chaque séminaire, bulletins **d'inscription, etc.**).

Tél. 3674 (le matin/morning only)