

COMMUNICATIONS OFFICIELLES

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La reproduction même partielle de ces informations par des personnes ou des institutions externes à l'Organisation exige l'approbation préalable de la Direction du CERN.

OFFICIAL NEWS

Members of the personnel shall be deemed to have taken note of the news under this heading.

Reproduction of all or part of this information by persons or institutions external to the Organization requires the prior approval of the CERN management.

COMMISSION PARITAIRE CONSULTATIVE DES RECOURS

La Commission Paritaire Consultative des Recours s'est réunie pour examiner l'appel introduit par des pompiers du CERN, à propos de l'Organisation des Services de Secours et du Feu. (article R III 1.15, 1.18, 1.19, 1.20 et 1.23 du Règlement du Personnel).

Conformément à l'Article R VI 1.11 du Règlement du Personnel, les recommandations de la Commission et les décisions définitives du Directeur général sont à porter à la connaissance du personnel.

Pour ce faire, ces documents seront affichés aux tableaux du Bâtiment de l'Administration du 6 au 17 mars 1989.

Division PE
Tél. 2855

JOINT ADVISORY APPEALS BOARD

A meeting of the Joint Advisory Appeals Board has been held to examine the appeals lodged by CERN firemen regarding the organization of the Emergency and Fire Services (Articles R III 1.15, 1.18, 1.19, 1.20 and 1.23 of the Staff Regulations).

Article R VI 1.11 of the Staff Regulations specifies that the recommendations of the Board and the final decisions of the Director-General must be brought to the notice of the personnel.

The relevant documents will therefore be posted on the notice boards of the Administration Building from 6 to 17 March 1989.

PE Division
Tel. 2855

SEMINARS SEMINAIRES

Monday 6 March

EF SEMINAR

at 11.00 hrs – EF Conference Room
bldg 13, 2-005

Gravity and other matters

by John EADES / CERN-EF

How does an antiproton fall under gravity? 'Up' according to Gold and Morrison in 1957. 'Down but faster' according to some recent local supersymmetry theories, which attempt to bring gravity under the umbrella covering the strong and electroweak interactions. Whatever the current theoretical fashions, no successful experiment has ever been done on the gravitational properties of antimatter. This deficiency may soon be rectified at LEAR, where a measurement of the gravitational acceleration of the antiproton is in preparation. The background to this difficult experiment will be described with the non-specialist in mind. Perilous

excursions onto the thin ice of General Relativity and scientific history must nevertheless be undertaken under the (uncertain) guidance of the speaker.

Monday 6 March

EP SEMINAR

at 16.30 hrs – Auditorium

Particle production in low- P_T hadronic collisions (results from the CERN-EHS experiments)

by A. DE ROECK / University of Antwerp

Results are reviewed from the soft hadron experiments NA22 ($\pi^+ p$, $K^+ p$ and pp at 250 GeV/c) and NA23 (pp at 360 GeV/c), performed with the European Hybrid Spectrometer EHS. A detailed understanding of particle production in meson-proton and proton-proton interactions is important for the search for Quark Gluon Plasma signals in

nucleus-nucleus collisions. Results are presented on multiplicity distributions, on correlations between particles and on resonance production. Intermittent behaviour is observed in meson-proton interactions at 250 GeV/c. The data are compared with results from e^+e^- and lepton-hadron collisions, and with predictions of the fragmentation models FRITIOF and DPM. Considerable disagreements are found between data and models for the production of baryons.

Tuesday 7 March

METING ON FASTBUS DEVELOPMENTS

at 09.00 hrs – Theory Conference Room

1. *The L3 trigger system*
by S. Falciano / INFN, Rome
2. *FASTBUS database in initialization in ALEPH*
by D.R. Botterill / RAL
3. *A FASTBUS processor (FPAX), for the 3081 emulator input-output control in DELPHI*
by B. Bouquet / LAL, Orsay
4. *FASTBUS speed, potential and practice*
 - a) *hardware aspects*
by H. Müller / CERN
 - b) *software aspects*
by D. Burckhart / CERN
5. *Various*

Tuesday 7 March

SCIENCE AND SOCIETY SEMINAR

at 16.30 hrs – Auditorium*

Fast neutron breeders – Super-Phénix from physics to reality

by Raymond SENE / Collège de France

A short review of nuclear reactor physics will be presented, aiming at a better understanding of the choices among the different types of nuclear plants. Various possibilities of optimizing natural uranium use which are now in competition will be described. Safety aspects of fast neutron breeders will be discussed, in particular Super-Phénix, the French liquid metal fast breeder reactor (LMFBR) at Creys Malville. Information on last year's problems at Super-Phénix will be given and solutions analysed. Raymond SENE represents the 'Groupement de Scientifiques pour l'Information sur l'Energie Nucléaire' (GSIEN) at the French 'Conseil Supérieur de la Sécurité et de l'Information Nucléaire'.

On Thursday 16 March, Pierre Tanguy of Electricité de France will give a Science & Society Seminar on related matters.

* Tea & coffee will be served at 16.00 hrs.

Wednesday 8 March

PRESENTATION

10.00-12.00 hrs & 14.00-16.00 hrs
DD Auditorium – bldg 31, 3-005

VMEbus Modules and Systems

by Ing. Luca FUSINA / Marketing Manager,
Tecmint SRL, Italy

Tecmint will present their range of VMEbus modules as well as OS-9 based systems. The morning session will consist of an overview of the company and its products; the afternoon will be devoted to demonstrations and informal discussions.

Language : English

Information : C. Parkman / DD / 3963 /
PMN@CERNVM

Wednesday 8 March

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Quantum gravity corrections from superstring theory

by R. IENGO / SISSA, Trieste

We describe an exact integral formula for the superstring scattering amplitude at two loops for bosonic massless particles. By studying the behaviour for large energy and small momentum transfer, we derive from it the quantum corrections to the gravitational interaction.

Monday 13 March

EF SEMINAR

at 11.00 hrs – EF Conference Room
bldg 13, 2-005

R&D in silicon detectors and micro-electronics

by Erik HEIJNE / CERN-EF

Collaborating closely with various specialized European institutes we have been engaged for several years in the development of prototype building blocks for integrated detector readout architectures. Most circuits are designed with silicon pixel detectors in mind, but can be easily adapted to applications involving other types of particle detectors, like pad detectors or calorimeter elements. The development strategy will be discussed, including technology choices, radiation resistance, availability, etc., and some preliminary results will be shown.

Monday 13 March

EP SEMINAR

at 16.30 hrs – Auditorium

Results on D and D_s decays from Mark III

by S. R. WASSERBAECH / Stanford
University

Recent results on weak decays of D and D_s mesons are presented. These studies were performed using e^+e^- annihilation data collected on the $\Psi(3770)$ and at $\sqrt{s} = 4.14$ GeV with the Mark III detector at SPEAR. Topics of study include hadronic and semileptonic D_s decays, resonant substructure in $D \rightarrow K \pi \pi \pi$, and determination of $|V_{cd}/V_{cs}|^2$ from measurements of exclusive semileptonic D decays.

Tuesday 14 March

LEP EXPERIMENTS COMMITTEE

at 09.00 hrs – Auditorium

Open session

- | | |
|---------------|---|
| 09.00 - 09.20 | Introductory remarks
C. Rubbia |
| 09.20-09.50 | Status of LEP
E. Picasso |
| 09.50-10.20 | LEP commissioning
S. Myers |
| 10.20-10.45 | Coffee break |
| 10.45-11.00 | Status of SLC
R. Taylor |
| 11.00-11.30 | Proposal for a single bremsstrahlung
monitor for measuring luminosity,
beam divergence and longitudinal
polarization (Università di Roma
and INFN Roma; LEPC 88-7/I 8,
LEPC 89-5/I 8 Add.1;
G. Diambri-Palazzi) |

Status of LEP Experiments

- | | |
|-------------|--------|
| 11.30-12.15 | DELPHI |
| 12.15-13.00 | ALEPH |
| 14.00-14.45 | L3 |
| 14.45-15.30 | OPAL |

TRAINING AND EDUCATION ENSEIGNEMENT

ENSEIGNEMENT GENERAL

Tél. 2844-5811

Jeudi 9 mars

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS

Closed session

at 16.00 hrs, 6th floor Conference Room,
Administration building, to be continued on
Wednesday 15 March at 09.00 hrs.

Tuesday 14 March

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Recent results of the TRISTAN experiments

by T. NOZAKI / KEK, Japan

Thursday 16 March

FDDI TUTORIAL AND WORKSHOP

Tutorial : 09.00 to 12.15 hrs – Conference
Room, bldg 4/3-006

Workshop : 14.00 to 17.00 hrs – Conference
Room, bldg 54/2-035

The ANSI Fibre Distributed Data Interface (FDDI)

by Norman C. STROLE / IBM Corp.,
Research Triangle Park, NC, USA &
Charles LOUISSON / Advanced Micro
Devices, Basingstoke, GB

Thursday 16 March

SCIENCE AND SOCIETY SEMINAR

at 16.30 hrs – Auditorium

Super-Phénix : some aspects of the safety of
LMFBRs

by Pierre TANGUY / Electricité de France

Mardi 7 mars

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