

COMMUNICATIONS OFFICIELLES

OFFICIAL NEWS

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CONGÉ ANNUEL

Il est rappelé aux membres du personnel que l'article R II 4.08 du Règlement du Personnel limite à 30 jours le report de congé annuel sur l'année de congé suivante, qui commence le 1er avril. Toutefois, les congés pris jusqu'au 30 avril 1991 pourront être imputés à l'année de congé précédente (1er avril 1990 – 31 mars 1991).

Division du Personnel
Tél. 3238-4474

ANNUAL LEAVE

Members of the personnel are reminded that, in accordance with article R II 4.08 of the Staff Regulations, not more than 30 days of annual leave may be carried forward to the following leave year, which starts on 1 April. However, leave taken until 30 April 1991 may be charged against the last leave year (1 April 1990 – 31 March 1991).

Personnel Division
Tel. 3238-4474

SEMINARS SÉMINAIRES

Monday 4 February

ASTROPARTICLE SEMINAR

at 11.00 hrs – TH Conference Room

Scaling effects of Lagrangians in dense matter

by Christoph ADAMI / Stony Brook

Monday 4 February

PPE SEMINAR

at 16.30 hrs – Auditorium

Latest OPAL results from a combined analysis of hadronic and leptonic decays of the Z^0

by Gunter QUAST / CERN for the OPAL collaboration

Latest results on hadronic and leptonic partial decay widths of the Z^0 and forward-backward asymmetries in leptonic Z^0 decays will be given, based on the full data sample taken with the OPAL detector in 1989 and 1990 (about 7.5 pb^{-1} in an energy scan around the Z^0 resonance). Minimally model-dependent combined fits to hadrons and leptons were performed in order to determine the mass of the Z^0 , its total and partial widths and the vector and axial vector couplings of the Z^0 to leptons. A

comparison of the data with the Standard Model will be presented, which constrains the allowed range of the top quark mass.

Mardi 5 février

SÉMINAIRE MT

à 14.00 h – bât. 30, 4-035

Lasers de puissance pour soudure et usinage

par K. BADAWI / IUT Le Creusot

Les lasers de puissance (CO_2 , YAG et autres) ont plusieurs applications industrielles : soudure, découpe, perçage, traitement thermique, etc. Grâce à sa flexibilité, le laser trouve plusieurs applications dans la fabrication des prototypes (exemples : soudures minces, découpes céramique, etc.). Ce séminaire, destiné aux utilisateurs, aux bureaux d'études, aux ateliers et autres usagers potentiels, développera le fonctionnement et les possibilités des lasers. C'est aussi une occasion de rencontre entre utilisateurs qui aidera à définir les besoins présents et futurs du CERN en vue de l'acquisition, par la Division MT, d'un laser de puissance.

Langue : français (discussion possible in English)

Renseignements : F. Bertinelli / MT / 5098

Tuesday 5 February

CERN COLLOQUIUM

at 16.30 hrs – Auditorium*

Experiments with separated oscillatory fields and hydrogen masers

by Norman F. RAMSEY / Nobel Laureate 1989

* Tea & coffee will be served at 16.00 hrs

Wednesday 6 February

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Top condensation scenarios

by M. LINDNER / CERN

Models which break the electroweak symmetry dynamically via top condensation are discussed. It is shown that small extensions of the minimal scenario can lead to predictions which are in good agreement with indirect top mass limits.

Wednesday 6 February

CERN COMPUTING COLLOQUIUM

at 16.00 hrs – Auditorium

Monte Carlo studies of 'unconventional' phase transitions

by Kurt BINDER / Mainz

Monte Carlo studies are reviewed for problems where even supercomputers allow only preliminary explorations as yet : (i) Phase transitions 'in between' two and three dimensions, such as surface induced disordering (SID) or surface induced ordering (SIO); (ii) Phase transitions where the 'ordered' phase is not understood, which happens in systems with a strong quenched disorder in the interactions, such as the Potts glass model or related models for isotropic orientation glasses. The computational problems one has to overcome in these two cases are discussed, and the different strategies to overcome them are described, along with a summary of the most interesting results on the physics of these problems obtained so far.

Kurt Binder studied physics in Vienna, and went on to do research at the Technical University in Munich, IBM Research in Zurich, Bell Labs in Murray Hill, and the University of Saarbrücken, before moving to the University of Mainz in 1984. He is one of the pioneers in Monte Carlo studies of complex systems, especially phase transitions.

* Tea & coffee will be served at 15.30 hrs

Thursday 7 February

SCIENCE & SOCIETY SEMINAR

at 16.30 hrs – Auditorium*

Marie Curie, Niels Bohr and Science Society problems of their time

by Pierre RADVANYI & Monique BORDRY

Apart from their well known scientific merits, Pierre and Marie Curie, in Paris and Niels Bohr, in Copenhagen, had a strong influence on the society of their time. Pierre Curie noted the importance of the natural radioactive elements for the thermic balance of the Earth; Pierre and Marie Curie developed the medical applications of radium. Marie Curie, professor at the Sorbonne, became an example for young women. The Curies had a lasting impact on the public opinion. Marie Curie was almost a living myth. Niels Bohr, in a small country, created an Institute of the highest international repute; it became a melting pot of young theorists from many different countries. A new physical representation emerged which had strong philosophical implications. During World War II, he was regarded as one of the supreme moral authorities and he devoted the rest of his life to the struggle for an Open World and for international cooperation.

* Tea & coffee will be served at 16.00 hrs

Friday 8 February

CN TECHNICAL PRESENTATION

at 10.30 hrs – CN Auditorium

bldg 31/3-005

Maple computer algebra system

by Carl Bergström / Comsol AG, Gaston GONNET & Michael MONAGAN / ETH Zürich

The Maple computer algebra system integrates numerical and symbolic computation, as well as 2-D and 3-D graphics, document preparation, C and Fortran code generation into an interactive computing environment. The system, undergoing development at the University of Waterloo in Canada, the ETH in Zürich, as well as at other centres in Europe, will be presented and demonstrated.

- Comsol overview (Carl Bergström)
- Maple introduction and overview (Carl Bergström)
- Detailed presentation (Gaston Gonnet)
- Demonstration (Michael Monagan)
- Discussion

Language: English

Organizer: C. Parkman / CN

Monday 11 February

AC SEMINAR

at 11.00 hrs – AT Auditorium

bldg 30, 7th floor

Conclusions from the 1st LEP Performance Workshop

by Stephen MYERS & Carlo WYSS / CERN

The purpose of the 1st LEP Performance Workshop was :

- to review the present situation with LEP and the proposed upgrades;
- to make proposals for improvements in performance;
- to set priorities for the implementation of these proposals;

- to organize small teams to carry out the work necessary for the implementation of the proposals; and
- write up the results.

The Workshop was subdivided into 10 specific sessions with an additional session for 'summing-up'. Each session lasted 3 hours and was organized by a session chairman and a scientific secretary. In this seminar an overview is given of the conclusions for each of the 10 sessions. The present-day limitations to performance are analysed, and the foreseen improvements aimed at raising the performance are discussed. The presentation is split into two parts : part 1 covers the present LEP, transverse polarization and the 'crash' luminosity upgrade; part 2 covers the technical and beam dynamics aspects of the approved LEP energy upgrade.

Monday 11 February

PPE SEMINAR

at 16.30 hrs – Auditorium

ϕ , and $p\omega$ production in ultrarelativistic heavy ion collisions (NA38 experiment)

by Denis JOUAN / Institut de Physique nucléaire, Orsay

Experimental results on low mass dimuon production in 200 GeV/n P, O and S on Uranium target will be presented. They show an enhancement of the ϕ production in collisions induced by ions as compared to protons. This increase is also observed with increasing transverse energy. This effect will be compared to experimental results from hadron induced reactions, and to the predictions of theoretical models assuming or not quark-gluon plasma formation.

TRAINING AND EDUCATION ENSEIGNEMENT

Mardi 5 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 du 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

Tuesday 12 February

PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Physics and status of the tau-charm Factory

by Jasper KIRKBY / CERN

Wednesday 13 February

CN TECHNICAL PRESENTATION

at 10.00 hrs – CN Auditorium
bldg 31/3-005

The future of CASE

by Richard BARKERS / Senior Vice President,
Oracle Corporation

Language: English

Organizer: Sverre Jarp / CN

Wednesday 13 February

PS SEMINAR

at 11.00 hrs – PS Auditorium
bldg 6/2-024

The Brazilian Synchrotron Light Source : a
progress report

by Cylon Goncalves DA SILVA / Laboratorio
Nacional de Luz Sincrotron (LNLS), Campinas,
Brazil

ENSEIGNEMENT GÉNÉRAL

Tél. 5811 ou 2844 (le matin)

Jeudi 7 février

de 13.00 à 13.30 h – Amphithéâtre

Science pour tous

par R. Carreras

ACADEMIC TRAINING

Tel. 2844-3674

4, 11, 18, 25 February

4, 11 March

LECTURES FOR POSTGRADUATE STUDENTS

11.00 to 12.00 hrs – Auditorium

Introduction to accelerators

by E.J.N. WILSON / CERN-PS

Lecture of 4 February : Lattices & Liouville