

SEMINARS SEMINAIRES

Monday 25 January

EP SEMINAR

at 17.00 hrs - Auditorium

'Recent Results from the North Area Electromagnetic Detector (CUSB) at CESR'

by T. Böhringer / CERN-EP

Results from the analysis of the last two years of running at the 4 upsilon system resonances will be presented.

Tuesday 26 January

CERN COLLOQUIUM

at 16.30 hrs - Auditorium *

'Supernovae : the shocking story of how neutron stars are made'

by G. Baym / Univ. of Illinois at Urbana

Supernova explosions, one of the most spectacular events in the universe, are the result of more massive stars undergoing gravitational collapse at the end of their lives. This colloquium will review the basic physics of collapse, describe the interplay between the microscopic particle interactions and the macroscopic behaviour, and discuss recent ideas of how the explosion is produced, with the accompanying birth of a neutron star.

* : Those attending this colloquium are cordially invited in 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 provided.

Wednesday 27 January

THEORETICAL SEMINAR

at 14.00 hrs - Theory Conference Room

'Pion Condensation at Finite Temperature'

by G. Baym / Univ. of Illinois at Urbana

One of the more exciting possibilities of heavy ion collision experiments is producing pion condensation. Such a state is also important in neutron star cooling. This talk will briefly review the general properties and applications of pion condensation, and then discuss in detail the theory of condensation at finite temperature - as needed for heavy ions and neutron stars - including the rôle of thermal pion fluctuations, the nature of the phase transition, and the stability of the finite temperature condensed state.

Wednesday 27 January

CERN COMPUTER SEMINAR

For information : Tel. 4551

at 16.00 hrs - Auditorium *

'PERQ - A High Powered Personal Computer System'

'PEF' by F.R.A. Hopgood / Science and Engineering by F Research Council, Rutherford Appleton Cou Laboratory, UK

The appearance of a number of technological advancements has made it now possible for high powered computer systems to be made available to the scientists as his own personal workbench. Such systems can be configured with high quality displays and high speed interconnection to other systems. This talk traces the history of such devices and describes the ICL PERQ which has been adopted by the UK Science and Engineering Research Council (SERC) as its standard system and is one of the market leaders in terms of price and performance. A description of the uses that SERC will make of the PERQ, and the planned associated software developments, will also be given.

Demonstration : Two PERQ computers will be on demonstration, just after the seminar, in rooms A and C of the corridor to the Council Chamber, and the whole day on the 28 in the DD Amphitheatre, building 31, 3rd floor.

* : Tea and coffee will be served at 15.30 hrs.

Jeudi 28 Janvier

PRESENTATION TECHNIQUE

à 10h00 - Salle 2-005, Bât. 13

CABLEX SA - représentant SA des Câbleries et Tréfileries de Cossonay, Câbleries de Cortailod et Kabelwerke Brugg AG - tiendra un séminaire sur les câbles autoextinguibles et sans halogène NOflam (BT, HT et pour courant faible). *Caractéristiques principales* - non propagation de la flamme, fonctionnement électrique durant l'incendie, très faible dégagement de fumée, aucun dégagement de gaz corrosif lors de l'incendie, résistance aux températures élevées, à l'eau, aux radiations ionisantes.

Langue : français.

Renseignements : M. Diraison / FI / 4585.

Thursday 28 January

CERN ENERGY SEMINAR

at 16.30 hrs - Auditorium *

'Environmental and public health effects of energy use. A quantitative comparison'

by R. Wilson / Harvard

* : Those attending this seminar are cordially invited in 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 provided.

POUR INFORMATION /
FOR INFORMATION

Vendredi 29 Janvier

SEMINAIRE DU LAPP

à 10h30 - Amphithéâtre du LAPP

(Laboratoire d'Annecy-le-Vieux de Physique des Particules, Chemin Bellevue, Annecy-le-Vieux, Haute-Savoie, France).

'Pourquoi les militaires s'intéressent-ils aux accélérateurs?'

par André Gsponer

Ce séminaire sera la répétition en français de celui qui a déjà été donné au CERN en anglais le 24 juin 1981. A. Gsponer rappellera brièvement les principales applications civiles des accélérateurs puis s'étendra sur les utilisations militaires actuelles ainsi que sur les futures applications militaires possibles : simulation des effets des armes nucléaires, tests non destructifs, production de matériaux fissibles et fusibles, fusion par confinement inertiel, etc.

Renseignements complémentaires auprès de Ch. Baglin/CERN-EP, Tél. 4657, ou Laboratoire d'Annecy-le-Vieux, Tél. (023)23.32.45, int. 327.

3. Antiproton-Proton Glory Scattering (CERN-Lisbon-Neuchâtel-Paris VI Collaboration; J.M. Gago; SPSC/81-106/P 173).
4. Measurement of ratios of neutral kaon decay parameters (CERN-Dortmund-Pisa-Siegen Collaboration; H. Wahl; SPSC/81-110/P 174).
5. Proposal to Study the Mesons Produced Centrally in proton-proton and positive pion-proton reactions at 85 GeV/c (Athens-Bari-Birmingham-CERN Collaboration; B.R. French; SPSC/82-3/P 175).
6. Proposal to Study Shadowing and Hadron Production in High Energy Muon Scattering Using Nuclear Targets (Aachen-CERN-Freiburg-Hamburg (DESY)-Hamburg (University)-Kiel-LAL (Orsay)-Lancaster-LAPP (Annecy)-Liverpool-Mons-MPI (Munich)-Oxford-RAL (Chilton)-Sheffield-Turin-Uppsala-Wuppertal Collaboration; S. Kullander; SPSC/82-4/P 176).

● CLOSED SESSION
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Wednesday 3 and Thursday 4 February
at 09.00 hrs - Sixth Floor Conference Room
(Administration Building).

Monday 1 February

EP SEMINAR

at 17.00 hrs - Auditorium

'First results from Mark II at PEP'

by J.L. Siegrist / CERN-EP

Tuesday 2 February

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

'Charm and beauty particle studies by emulsions with external detectors'

by K. Niu / Nagoya University

Tuesday 2, Wednesday 3 and Thursday 4 February

SPS EXPERIMENTS COMMITTEE

● OPEN SESSION
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Tuesday 2 February
at 09.00 hrs - Auditorium

1. Introductory Remarks by H. Schopper.
2. Test beams : Future Needs and Possibilities (D. Plane, L. Hoffmann, W. Kienzle, K. Kilian).

TRAINING AND EDUCATION ENSEIGNEMENT

ACADEMIC TRAINING (Tél.2844)

February 1, 2, 3, 4, 5

11.00 hrs - 12.00 hrs - Theory Conference
Room (3rd floor, Lab. 4)

"Surface analytical techniques"

by J.C. Rivière / AERE Harwell

The proliferation of physical techniques used to characterise the chemical properties of solid surfaces has led to some confusion as to the differences between them, and the information that each one provides. The series of lectures about these techniques will therefore discuss and compare their operating conditions, mechanisms, spatial and depth resolution, relative elemental sensitivities, nature of information, and fields of application. They will be grouped according to the method of initial excitation, i.e. electron, photon, or ion, and where appropriate comparisons of advantages and disadvantages will be made.