

SEMINARS SEMINAIRES

Lundi 12 Octobre

CONFERENCE D'INFORMATION SUR LE LEP (No.5)

à 11h00 - Amphithéâtre
(Retransmission en direct par TV dans la
Salle du Conseil et les Amphithéâtres
ISR et SPS)

"Services : alimentation électrique,
refroidissement, ventilation et installation"

par G. Bachy

*Les systèmes de distribution électrique, de
refroidissement et de ventilation du LEP seront
décrits dans leurs principes. Après une descrip-
tion des ouvrages souterrains, les difficultés
inhérentes à une installation de cette dimension
seront soulignées, et les solutions de base pour
résoudre les problèmes de distance présentées.*

Tuesday 13 October

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium *)

"Recent Developments in Multiparticle
Dynamics"

by L. Van Hove / CERN

*The lecture, based on the concluding talk at
the recent Notre Dame Symposium on multiparticle
dynamics, will review developments in the study
of multi-hadron production in hadron-hadron,
lepton-hadron and electron-positron collisions.
The following topics will be covered :*

1. General evolution of the field.
2. Multiplicities and quark combinatorics.
3. Inclusive distributions :
 - fragmentation versus recombination,
 - production of heavy flavours.
4. Dynamical attempts.
5. Dense hadronic matter as quark-gluon plasma.
6. Concluding remarks.

*) Note : Those attending this seminar are
cordially invited to 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 will be provided.

Tuesday 13, Wednesday 14 October and Thursday 15 October

SPS EXPERIMENTS COMMITTEE

- OPEN SESSION on Tuesday 13 October
at 09.00 hrs - Auditorium
- 1. Report on the Cogne II-Meeting of the SPSC
(J. Lefrançois)
- 2. Status Report on WA 44 (Search for Quarks
in Neutrino Interactions; A. Zichichi).

3. An Experiment to Observe Directly Beauty
Particles Selected by Muonic Decay in
Emulsion and to Estimate their Lifetimes
(Bari -Brussels-CERN-U.C. Dublin-Kariya-
Kobe-U.C. London-Nagoya Univ.-Nagoya Inst.
Tech.-Rome-Turin-Utsunomiya-Yokohama
Collaboration; P. Musset).
4. Measurement of the Lifetime of the Beauty
in the Ω' Spectrometer by a High Precision
Vertex Detector and Emulsion Target
(Bologna I.N.F.N. and Univ.-Firenze I.N.F.N.
and Univ. Collaboration; G. di Caporiacco).

• CLOSED SESSION

on Wednesday 14 and Thursday 15 October
at 09.00 hrs - Sixth Floor Conference Room
(Administration Building)

Wednesday 14 October

THEORETICAL SEMINAR

at 14.00 hrs - Theory Conference Room

"Finite Scaling. Application to the Study
of Non-Universality of Z_3 Spin Systems"

by V. Rittenberg / Bonn

*Fisher's theory of finite scaling is reviewed
and applied to the calculation of the mass gap
of Z_3 spin systems. It is shown that the critical
exponent varies continuously between the values
corresponding to the Ising and Potts models.*

ISR SEMINAR

at 14.30 hrs - ISR Auditorium
(Top floor of Building 30)

"Superconducting Magnets at ISABELLE"

by M.J. Tannenbaum / B.N.L.

DD SEMINAR

at 16.00 hrs - DD Auditorium
(Building 31 - 3rd floor)

"CSIRONET : An Australian General Purpose
Computing Network"

by F. Vezis / Div. of Computing Research,
CSIRO

*The Australian Commonwealth Scientific and
Industrial Research Organization has developed
and operated a general purpose computing network
since 1970. The network, known as CSIRONET,
currently comprises more than 120 PDP-11 com-
puters, 1000 interactive terminals and 400 batch
input/output peripherals. Ten CSIRO owned HOST
computers are accessible through the network and
a growing number of user HOSTS are being connect-
ed. CSIRONET provides GATEWAY access to three
University networks as well as the TYMNET/
TELENET systems in the USA. The central site, in
Canberra, has established a Local Area Network
using HYPERCHANNEL and operates a high speed
2.048 Mbps TDM link across Canberra to a user
site.*

Thursday 15 October

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium *)

"Measurement of the Cross-Section of Antineutrino scattering on electrons"

by Michael Jonker / NIKHEF/H Amsterdam-CHARM Collaboration

The fine grained calorimeter of the CHARM collaboration is able to discriminate electromagnetic from hadronic showers, induced by neutrino interactions. Using this feature from a sample of 1,450,000 interactions, obtained during the wide-band antineutrino exposures of 1979 and 1980 72 ± 16 events have been extracted that can be attributed to neutrino electron interactions. This leads to a cross-section for the pure leptonic weak neutral current process of antineutrino-electron elastic scattering of $(1.70 \pm .33) \times 10^{-42} \text{ E}_\nu \text{ (cm}^2/\text{GeV)}$.

*) Note : Those attending this seminar are cordially invited to 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 will be provided.

Tuesday 20 October

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"Use of a Liquid Argon Calorimeter to Investigate the Production of High Transverse Momentum Prompt Photons at Fermilab"

(Fermilab-Michigan State-Minnesota-Northeastern-Rochester Collaboration)

by Alan M. Jonckheere / Fermilab

Wednesday 21 October

ISR COMMITTEE

• OPEN SESSION

at 09.30 hrs - Council Chamber

1. Status of preparations for Experiment R 704; Charmonium Spectroscopy at the ISR using an Antiproton Beam and a Hydrogen Jet Target; M. Macri.

• CLOSED SESSION

at 10.30 hrs - Sixth Floor Conference Room (Administration Building)

Thursday 22 October

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Council Chamber

"Tests of Quantum Chromodynamics in Neutrino Interactions"

by G. Myatt / Oxford Univ.

POUR INFORMATION / FOR INFORMATION

Vendredi 16 Octobre

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)

"HRS : le dernier-né des grands détecteurs"

par J.P. Guillaud / LAPP

Présentation du dispositif expérimental constituant le spectromètre à haute résolution (HRS) qui vient très récemment d'être installé dans la zone d'intersection No.6 de PEP.

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

TRAINING AND *EDUCATION* *ENSEIGNEMENT*

Jeudi 15 Octobre

ENSEIGNEMENT GENERAL (Tél. 2844)

13h00/13h30 - Amphithéâtre

'Science pour Tous'

par R. Carreras

October 20, 21, 22, 23, 27, 28, 29, 30

ACADEMIC TRAINING (Tel. 2844)

at 11.00 hrs - Auditorium

'Degenerate Fermi matter in the Universe'

by R. Ruffini / University of Rome

Astrophysical applications of matter obeying Fermi statistics are going to be presented. First the case of the degenerate matter in neutron stars is going to be discussed with special attention to the latter observational constraints on the values of the masses and the surface temperatures of neutron stars obtained from X-ray astronomy. The implications of these observations for equations of states of neutron star matter and for a, possibly, different outcome of the process of gravitational collapse are going to be considered. The implications of degenerate matter, or almost degenerate matter in cosmology, is going to be considered within the framework given by George Gamow. Special attention is going to be focussed on the possible existence of massive