

SEMINARS SEMINAIRES

MONDAY 24 MARCH

PRESENTATION TECHNIQUE

de 9h00 à 12h00 - Salle 2-005, Bât.13
(D2 plan CERN Meyrin)

DEWALD ELECTRONIC (CH), représentant AUGAT (CH-F-USA) propose un exposé sur l'utilisation de la technologie HOLTITE (contacts à sertir sur circuits imprimés permettant de supprimer la soudure) - 1) présentation du produit, utilisation, avantages et inconvénients; - 2) outillage et méthode pour l'utilisation individuelle, information sur l'installation d'un équipement de charge à la disposition des utilisateurs du CERN (50'000 cts à l'heure); - 3) possibilités de l'atelier Godet; - 4) problèmes posés aux fabricants de circuits et leurs expériences; - 5) discussion.

Langue : Français.

Renseignements : M. Diraison / FI / Tél. 4585.

EP SEMINAR

at 17.00 hrs - Auditorium

"The E(1420) Meson and its Quantum Numbers"

by C. Dionisi / Univ. of Rome and CERN

Abstract : The E-meson was first proposed in 1963 from the analysis of pp annihilations at rest. Although its presence has often been signalled in other reactions, insufficient statistics have prevented its inclusion in the list of accepted resonances. The analysis of πp reactions at 3.9 GeV/c in a high statistics (~ 90 ev/ μ b) experiment with the CERN 2 m bubble chamber has led to its unambiguous detection in the $KK\pi$ combination of the reactions $\pi^- p \rightarrow K^0 K^\pm \pi^\mp n$. The determination of its mass (1426 ± 6) MeV width (40 ± 15) MeV and $I^G J^P = 0^+ 1^+$ will be described. An SU(3) fit of the 1^+ nonets will also be presented and discussed.

TUESDAY 25 MARCH

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium (*)

"Beam Dump Results from the CDHS Counter Neutrino Experiment"

by F. Dydak / Univ. of Heidelberg

Abstract : We report on the results from the 1979 beam dump run. High statistics data were obtained with the detector of the CERN-Dortmund-Heidelberg-Saclay (CDHS) Collaboration at two different dump densities. This allowed the measurement of prompt ν_μ and $\bar{\nu}_\mu$ fluxes, and a check of the symmetry of prompt ν_μ and ν_e production.

(*) 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.

WEDNESDAY 26 MARCH

PRESENTATION TECHNIQUE

de 10h00 à 12h00 - Amphithéâtre DD (Bât.31)
(G3 plan CERN Meyrin, 3ème étage)

TVI-TELEVISION INDUSTRIELLE S.A. (CH) présente : a) caméra vidéo professionnelle pour niveaux de lumière en-dessous du seuil de sensibilité de l'œil (10^{-5} lux), 400-700 nm, 15 MHz, tube SIT à émission secondaire; b) caméra vidéo professionnelle sensible dans le proche infrarouge, 720-1500 nm. Applications : prises de vue et photométrie à très faible luminosité, avec acquisition de données, chambres à dards, lumière synchrotrique, mesures optiques en chambre noire.

Langue : Français

Renseignements : M. Diraison / FI / 4585.

PS SEMINAR

at 11.00 hrs - PS Auditorium (Bldg.6)

"Pole Profile Design for the Wide, Combined Quadrupole-Sextupole Lenses of the Antiproton Ring"

by H.H. Umstätter / CERN-PS

Abstract : Unlike other accelerators, the anti-proton accumulator (AA) ring will contain no sextupole lenses but only 12 bending magnets and 24 quadrupole lenses. However, a sextupole field will be created in 8 so-called 'wide-quadrupoles' by modification of the pole profiles. The large aperture (poles extending over -50 cm $\leq x \leq +50$ cm) and short iron length of 54 cm necessitated 3-dimensional end-field calculations with the computer program GFUN3D from the Rutherford Laboratory and end-field compensation by profile modifications. Since it was not possible to use this program for the more complicated combined quadrupole-sextupole lens which has no vertical symmetry plane, a conformal mapping was used which maps a quadrupole profile into a combined quadrupole-sextupole lens profile; if the quadrupole profile contains end-field corrections, the resulting combined lens profile also contains end-field corrections.

THEORETICAL SEMINAR

at 14.00 hrs - Theory Conference Room

"The Connection between the Λ Parameters of Lattice and Continuum QCD"

by P. Hasenfratz / CERN-TH

Abstract : In the lattice formulation of QCD every physical dimensional quantity can be expressed in terms of Λ lattice which is the universal mass parameter of the lattice theory provided by dimensional transmutation. In order to get explicit predictions, the connection between Λ lattice and the measured Λ parameter of the continuum theory (~ 500 MeV) is needed. The necessary weak coupling lattice calculations have been completed recently giving the exact results

$$\Lambda_{(\alpha=1)}^{MOM} = 83.5 \Lambda^{lattice} SU(3), = 57.5 \Lambda^{lattice} SU(2).$$

WEDNESDAY 26 MARCH

DD SEMINAR

at 16.00 hrs - DD Auditorium
(Bldg.31, 3rd fl.)

"Experience using 168E μ -Processor for
Off-Line Data Analysis"

by P. Kunz / SLAC, Stanford

THURSDAY 27 MARCH

TECHNICAL PRESENTATION

09.00 hrs/12.00 hrs - DD Auditorium
(Bldg.31, 3rd floor - G3 CERN Meyrin map)

Technical presentation by ANALOG DEVICES (USA)
represented by Analog Devices S.A. (CH) on :
high speed conversion technique, high speed D/A
A/D converters and operational amplifiers.

Language : English.

Information : M. Diraison / FI / 4585.

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium (*)

"Inclusive Production of ϕ Mesons and Low Mass
 $\bar{p}p$ States in 93 GeV Hadron Interactions"

by W. Hoogland / Zeeman Lab.

*Abstract : Results are discussed on an experiment
with the WA3 spectrometer. Central production of
 ϕ mesons and low mass $\bar{p}p$ states by hadrons is
studied for incident momenta up to 93 GeV. For
the ϕ meson, $d\sigma/dx$ and $d\sigma/dp_t^2$ are measured for
incident π^+/π^- , K^+/K^- and $\bar{p}/p$. Evidence is found
of the enhanced production of strange particles
in conjunction with the ϕ , in agreement with the
OZI rule. In the proton interactions a signal is
observed in the $\bar{p}p$ invariant mass spectrum corres-
ponding to the $S(1936)$.*

(*) 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.

FRIDAY 28 MARCH

ECFA : GENERAL INFORMATION MEETING ON HERA

*The meeting consists of an open presentation
of the report prepared by the ECFA Working
Group on the Electron-Proton Collider.*

- at 09.00 hrs - Auditorium

Opening :

M. Vivargent, Chairman of ECFA

Introduction :

U. Amaldi, Chairman of the Working Group

Theoretical Considerations :

J. Ellis

Superconducting Magnets :

G. Horlitz

Coffee Break

- at 11.00 hrs - Auditorium

The HERA Machine :

B.H. Wiik

Experiments at HERA :

D.H. Perkins.

(Time for questions and discussions will be
provided between the talks. Copies of the written
report will be available at the meeting.)

- at 15.00 hrs - Council Chamber

Plenary ECFA Discussion Meeting :

This discussion meeting will be devoted
to a discussion on the reports given on
the HERA project.

MONDAY 31 MARCH

EP SEMINAR

at 17.00 hrs - Auditorium

"Polarization Measurements in pp Elastic
Scattering at SPS Energies"

by L. Lanceri / CERN-EP

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VENDREDI 28 MARS

SEMINAIRE DU LAPP

à 10h30 - Amphithéâtre du LAPP

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

"Quarkonium"

par A. Martin / CERN

Renseignements complémentaires auprès de :
H. Pessard/CERN/EP, Tél. 6526 ou Lab. d'Annecy-
le-Vieux, Tél. (023) 23.32.45, Int. 327.

TRAINING AND **EDUCATION** **ENSEIGNEMENT**

TUESDAY 25 AND WEDNESDAY 26 MARCH

ACADEMIC TRAINING

(Tel. 2844)

at 11.00 hrs - Auditorium

"r.f. Cavities with Particular Reference
to LEP"

by H. Henke and H. Lengeler / CERN

(Lectures 4 and 5)