

SEMINARS SEMINAIRES

Tuesday 9 November and Wednesday 10 November

SPS EXPERIMENTS COMMITTEE

I – Tuesday 9 November

at 09.00 hrs – Auditorium

OPEN SESSION

1. Status Report on Omega Experiments (B. French).
2. Status Report on WA1 (High Energy Neutrino Interactions; H. de Groot).
3. Status Report on WA18 (Study of Semileptonic Neutral-Current Processes Produced in Neutrino Interactions Using Counter Techniques, and of Muon Polarization).
4. Status Report on WA21 (High Energy Neutrino Interactions in BEBC Filled with Hydrogen; G. Myatt).
5. Status Report on WA25 (Neutrino and Antineutrino Interactions in Deuterium; P. Van Dam).
6. An Exploratory Investigation of Proton-Antiproton Interactions at 800-900 GeV cm Energy at the SPS Collider (Bonn-Brussels-Cambridge-CERN-Stockholm Collaboration; J.G. Rushbrooke; SPSC/82-75/P 184).
7. A Programme of Heavy Flavour Photoproduction; Addendum to NA14 (Athens-CERN-Imperial College-Orsay-Palaiseau Ecole Polytechnique-Paris Collège de France-Saclay-Southampton-Strasbourg-Warsaw Collaboration; R. Barate; SPSC/82-73/P 109/Add.2).
8. Proposal to Study Charm Production Using the Enriched Antiproton Beam into HOLBEC (Cambridge-CERN-Collège de France-Liverpool-Mons-Paris VI-Rutherford-Serpukhov-Strasbourg Collaboration; N. Kurtz; SPSC/82-74/P 183).

II – Tuesday 9 November

at 14.00 hrs - Conference Room, Sixth Floor of the Administration Building.

CLOSED SESSION.

(This Closed Session will continue on Wednesday 10 November at 09.00 hrs.)

Tuesday 9 November

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs* – Auditorium

A search for magnetic monopoles catalyzing baryon decay

by P. BOSETTI / III. Physikalisches Institut, Aachen.

A search for magnetic monopoles catalyzing baryon decay has been performed. The detector, a water-filled tank equipped with several photomultiplier tubes, was most sensitive for monopoles with velocities (beta) less than about 10^{-3} and interaction length less than about 50 cm. No monopole has been found, leading to an upper limit of $8 \times 10^{-3} \text{ m}^{-2} \text{sr}^{-1} \text{day}^{-1}$.

* Tea and coffee will be provided at 16.00 hrs.

Wednesday 10 November

PS SEMINAR

at 11.15 hrs - PS Auditorium, bldg. 6, 2-024

VLEPP Project - Novosibirsk Linear Electron-Positron Collider

S. EIDELMANN and V. PRIKHODKO /
Inst. of Nuclear Phys. Novosibirsk

A project of the new generation of high energy colliders is being developed at the Novosibirsk Institute of Nuclear Physics. A new machine called VLEPP - Colliding Linear Electron-Positron Beams - will have the energy $2 \times 500 \text{ GeV}$ (the first stage $2 \times 150 \text{ GeV}$). Due to the high acceleration rate of 100 MeV/m the designed energy will be obtained at the length $2 \times 5 \text{ km}$. The acceleration rate realized today is 55 MeV/m . To achieve such an acceleration rate, sources of r.f. power providing some thousands of GW per pulse are being constructed. Well-formed beam of micron size is needed for VLEPP. The number of the particles per bunch is 10^{12} . The planned luminosity is $10^{32} \text{ cm}^{-2} \text{sec}^{-1}$. It is planned to start VLEPP construction in 1986.

THEORETICAL SEMINAR

at 14.00 hrs - TH Conf. Room

Analytic variational approaches to spin and gauge theories on lattice

by N.D. HARI DASS / CERN-TH

An analytic approach to lattice theories (based on Jastrow-type ansätze for the ground state functional of the transfer matrix) developed by a group of us will be discussed. Lessons learnt from the study of two-dimensional models for spectrum calculations on lattice will be discussed in detail. Recent but tentative results for three and four-dimensional gauge theories will be discussed briefly.

Monday 15 November

ISR SEMINAR

at 14.30 hrs - ISR Auditorium
(top floor of Bldg. 30)

Particle acceleration by wakefields at ultrahigh gradients

by T. WEILAND / DESY

Wednesday 17 November

INTERSECTING STORAGE RINGS COMMITTEE

at 09.30 hrs - Council Chamber

OPEN SESSION

1. Status report from Experiment R 210; Precise Measurement of the proton-antiproton Total Cross-section in the ISR Energy Range.
2. Status report from Experiment R 211; Measurement of Antiproton-proton Small Angle Scattering and Total Cross-section at the ISR; C. Leroy.
3. Status report from Experiment R 501; Search for Magnetic Monopoles at the ISR; M. Price.

CLOSED SESSION

at 11.30 in the 6th floor Conf. Room of the Admin. Bldg.

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

ACADEMIC TRAINING Tel. 2844

Particle detectors - a series of lectures

from 11.00 hrs to 12.00 hrs – Auditorium

Thursday 11 November and Friday 12 November

Tracking chambers

by H.J. HILKE / CERN-EF

We will describe some recent developments and present limitations of small and large scale systems and discuss a few areas of possible improvements.

Some familiarity with the basic concepts of tracking chambers will be assumed.

Tuesday 16 November and Wednesday 17 November

Calorimeters

by O. ULLALAND / CERN-EF

Thursday 18 November to Friday 26 November – a series of 7 lectures :

from 11.00 hrs to 12.00 hrs - Auditorium

Electroweak interactions

by L.M. SEHGAL / Institute of Physics,
RWTH, Aachen

We shall review the theoretical foundations and empirical status of the standard model of weak and electromagnetic interactions.

The following topics will be covered (tentative) :

1. Theoretical perspective
2. Charged currents
3. Neutral currents
4. Forbidden reactions
5. Vector quanta (Intermediate bosons)
6. Scalar quanta (Higgs particles)
7. Problems on the frontier

Wednesday 17 November

PS SEMINAR

at 11.00 hrs - PS Auditorium, bldg. 6, 2-024

Light ions in the PS

by H. HASEROTH / CERN-PS

ENSEIGNEMENT

FORMATION AU MANAGEMENT

A l'instar de la formation en anglais 'Supervisor Training', donnée cet automne par David Gratton, les Services d'Education et de Formation mettront prochainement sur pied une formation, en français, aux méthodes de management. Elle débutera dès février 1983 et sera assurée par Pierre Artigues, de la Maison IDEP-CELEP, Paris.

Les personnes qui souhaiteraient obtenir de plus amples informations ou exprimer leurs besoins spécifiques sont invitées à une réunion avec Pierre Artigues

mardi 16 novembre à 14.00 heures
salle 11, baraque 593 (ex-ESO)

Le programme envisagé est celui-ci :

1. Le responsable d'un groupe

- Comment exercer ce rôle : animer, guider
- Comment stimuler son groupe
- Comment développer son efficacité et celle de son équipe

2. Le responsable 'carrefour' de l'organisation

- Comment avoir une influence reconnue
- Comment faire circuler l'information
- Comment gérer les tensions.

Cette formation est destinée à toute personne ayant actuellement ou prochainement une responsabilité hiérarchique directe ou indirecte.

Vous pouvez obtenir toute information complémentaire auprès de E. Fischer tél. 5811, ou J. Huguenin tél. 3364, Services Education et Formation.

ENSEIGNEMENT GENERAL (Tél. 2844)

Jeudi 11 novembre

de 13.00 h à 13.30 h – Amphithéâtre

Science pour Tous

par R. CARRERAS