

SEMINARS SEMINAIRES

MONDAY 5 MARCH

BEBC USERS* GROUP MEETING

at 13.45 hrs - Council Chamber

A g e n d a :

1. Status reports : SPSC, SPS, BEBC, GGM, FNAL 15\ Beams, EMI.
2. The BEBC EPI : Status and results.
3. Preliminary reports on BUG Working Groups : BEBC improvements, neutrino beams.
4. Results from WA 17 (Emulsion in front of BEBC).

CERN NUCLEAR PHYSICS SEMINAR

at 16.30 hrs - *Please note change of time *
TH Conference Room

"A new measurement of the muon capture rate in hydrogen"

by J. Duclos/C.E.N., Saclay

Abstract : The time structure of the Saclay Linac is particularly suitable for precise measurements of the muon lifetime. By comparing the γ lifetime in liquid hydrogen at a level of a few 10⁻⁵ one gets the muon capture rate without the usual uncertainties of a neutron yield measurement. The experiment is described and preliminary results are given.

TUESDAY 6 MARCH

SPS EXPERIMENTS COMMITTEE -

OPEN SESSION

at 9.00 hrs - Auditorium

A g e n d a :

1. Status report on WA 6 (Polarization in pp and Trp elastic scattering; G. Leder).
2. Addition of an aerogel Cerenkov counter to the EMC Vertex Detector (European Muon Collaboration; H. Stier; SPSC/79-17/P18/Add.2) and status report on NA 2 (Electromagnetic Interactions of Muons).
3. Proposal to study strangeonium and baryonium produced in K⁻p interactions using the Omega Prime spectrometer (Bari-Birmingham-CERN-LPNHE Paris-INFN Milan-INFN Pavia Collaboration; L. Mandelli; SPSC/79-23/P 125).

CLOSED SESSION

at 11.00 hrs - Conference Room
6th floor, Administration Building

Please note the change of date for the closed session.

PRESENTATION TECHNIQUE

à 09h30 - Salle no 2-005
Bât. 13, D-2 plan CERN

La maison CELDUC (F) représentée par STOLZ AG (CH) propose une conférence sur les RELAIS STATIQUES : définition - comparaison des performances entre relais statiques et électromécaniques - étude des schémas possibles du relais statique, entrées, interface entrée/sortie, organes de sortie - problèmes de dissipation - problèmes liés à la nature de la charge, transitoires, circuit L/R, charges résistives, inductives, capacitatives - particularité des relais synchrones.

Langues : français + questions : allemand, anglais
Renseignements : M. Diraison/FL/4585

LINAC SEMINAR

at 14.30 hrs - PS Conference Room
(building 10, 2nd floor)

"H sources for particle accelerators"

by P. Gear/Rutherford

Abstract : Ion sources capable of delivering tens of mA of IT ions have, during the past seven years undergone considerable development. Known as surface plasma sources they are capable of delivering more than 100 mA per pulse and operating at repetition rates up to 100 Hz.

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium *

"Grand unification of strong, weak and electromagnetic interactions"

by J. Ellis/CERN

Abstract : Motivations will be given for the grand unification of elementary particle interactions, and some simple models described. Applications to the calculation of $\sin^2 \theta_W$ and some quark masses will be outlined together with a related speculation on the mass of the Higgs boson. Grand unified models contain interactions violating baryon number conservation which enable one to estimate a finite lifetime for the proton and may enable one to generate the baryon-antibaryon asymmetry observed in the universe.

(*) 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 7 MARCH

PRESENTATION TECHNIQUE

09h30 et 14h30 - Salle no 2-005
Bât. 13, D-2 plan CERN

La maison FORETEC (F) propose une conférence sur les FIBRES OPTIQUES de la Société FORT (F).

- 1 - THEORIE ET PRATIQUE DES FIBRES OPTIQUES :
propagation de la lumière, saut et gradient d'indice, modes, atténuation - matériaux pour fibres optiques, technologie de fabrication - mesure des caractéristiques - câbles à fibres optiques, connexions - composants pour transmission par fibres optiques - systèmes et applications en transmission - guides de lumière, endoscopie, détection de proximité.
- 2 - MATERIEL A FIBRES OPTIQUES : fibres optiques monofilaments, faisceaux, câbles et connecteurs - faisceaux d'éclairage et générateurs de lumière - endoscopes rigides et souples - détecteurs de proximité à fibres optiques.

Langues : anglais, français

Renseignements : M. Diraison/FI/4585

VENDREDI 9 MARS

POUR INFORMATION / FOR INFORMATION

SEMINAIRE DU LAPP

à 10h30 - Amphitheatre du LAPP

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

"La chambre proportionnelle multi-étage et ses applications"

par F. Sauli/CERN

Résumé : La chambre proportionnelle multi-étage exploite pour son fonctionnement un processus assez inattendu de propagation d'avalanche par photons. Cela permet entre autres d'obtenir des gains élevés avec bonne efficacité quantique dans l'ultra-violet lointain. Une première application dans la détection et l'imagerie des photons émis par effet Cerenkov est présentée.

Renseignements complémentaires auprès de
H. Pessard/CERN-EP, tél. 6526 ou Laboratoire
d'Annecy-le-Vieux, tél. (023). 23 32 45, int. 327.

THURSDAY 8 MARCH

JOINT THEORETICAL AND ESQ SEMINAR

at 14.00 hrs - TH Conference Room

"Cosmology and elementary particle physics"

by David N. Schramm/University of Chicago

Abstract : It will be discussed how the standard model for the universe constrains elementary particle properties and how new unification models may explain the origin of the net baryon number of the universe while at the same time constraining the nature of the perturbations which eventually make galaxies.

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium *

"First results from Mark II at SPEAR"

by P. Jenni/SLAC

Abstract : The Mark II detector of the SLAC-LBL Berkeley collaboration is currently taking data at the SLAC e⁺e⁻ storage ring SPEAR. Its performance in the first year of operation will be reviewed. Preliminary results include measurements of the inclusive production of baryons ($p+p^ \rightarrow \Lambda + fA^0 + \dots \rightarrow \Lambda + \dots + 9A^0$) of 4.5 to 6 GeV cm. energy, of various decay modes of the D mesons and of a determination of the $T \rightarrow \text{irv}$ branching ratio.*

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MONDAY 12 MARCH

CERN NUCLEAR PHYSICS SEMINAR

at 11.00 hrs - TH Conference Room

"pp interactions at very low energy with cooled antiprotons"

by U. Gastaldi/Institute of Physics,
Mainz & CERN

TUESDAY 13 MARCH

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"Evidence for direct production of single photons at the ISR"

by W. Willis/CERN

Du 26 au 30 mars 1979
Hall du Bâtiment de
l'Administration - 1er étage
(C2 plan site de Meyrin)

Douze firmes et institutions norvégiennes présenteront le dernier
cri de leur technologie à l'exposition "La Norvège au CERN". Cette
exposition est organisée sous l'égide du Conseil Norvégien de
l'Exportation.

Exposants : voir liste ci-dessous

Programme détaillé dans le Bulletin CERN 13/79

"NORWAY AT CERN"

26-30 March 1979
Administration Building
Entrance - 1st floor -
(C2 Meyrin site plan)

Twelve Norwegian companies and institutions present their latest
equipment and know-how at the exhibition 'Norway at CERN'.
The exhibition is organized by the Export Council of Norway.

Exhibitors :

BORRE ELEKTRONIKK	NORSK DATA FRANCE
EIDSVOLL ELECTRONICS	A/S NORSK DATA ELEKTRISK
THE ELEKTRO UNION GROUP	TANDBERG DATA A/S
OLAF FJELDSSEND A/S	THE NORWEGIAN COUNCIL FOR CERN-
INSTITUTT FOR ATOMENERGI	RELÂTÉD ACTIVITY
AKSJESELSKAPET MIKROELEKTRONIKK	TORE SEEM A/S
A/S MYCRON	

Detailed programme in CERN Bulletin 12/79

Renseignements/Inquiries :
M. Diraison/FI/4585

TRAINING AND EDUCATION ENSEIGNEMENT

WEDNESDAY 7, FRIDAY 9 MARCH

ACADEMIC TRAINING

11.00 hrs - Auditorium

"Physics in Gottingen, Leipzig and Rome
in the Thirties"

by G.C Wick/University of Columbia &
Scuola Normale Superiore, Pisa

**Abstract : My recollections of two semesters spent
in 1930-31 in G'öttingen and Leipzig.
The group around Max Born in Gottingen (Eitler,
Nordheim^ Wei s shopfj et al) . The theory of valency.
The interest of mathematicians in Physics (H. Weyl).
A visit by Fermi.
Physics in Leipzig. Theory of metals and ferro-
magnetism (Bloch, Wilson). Heisenberg becomes
interested in nuclear physics. Molecular physics
and Fr. Bund. I meet E. Amaldi, G. Placzek et al.
My return to Italy. Learning Physics from Fermi.
A letter from Otto Stern. The Borne group (Rasetti,
Segrê, Amaldi, Pontecorvo et al). Some souvenirs of
Majorana. Foreign visitors (Bloch, Peierls, Bhabha,
et al). Theory of β -decay\ The neutron years.
Nuclear matter. Neutron diffusion and other
problems.**

Two lectures

MONDAY 5, THURSDAY 8 MARCH

ACADEMIC TRAINING

11.00 hrs - Auditorium

"Gravitational waves" - Lectures 1 & 2
by L. Radicati/Scuola Normale Superiore,
Pisa -

1. - Gravitation as a field theory. Einstein's
equations.
- Gravitational waves and their properties.
- Emission and absorption of gravitational
waves.
2. - The effect of gravitational field on the
dielectric properties of the vacuum.
- Astronomical sources of gravitational waves:
binary stars, stellar oscillation, gravi-
tational collapses, etc.

MONDAY 12 MARCH

ACADEMIC TRAINING

11.00 hrs - Auditorium

"Gravitational waves" lecture 3
by E. Picasso/CERN - lecture 3