

seminars

ISR SEMINAR

Monday, May 17
14.30
ISR Auditorium
(top floor of Bldg. 30)

"The Superconducting Solenoid Magnet for the ISR"

by G. Kantardjian

Abstract : The technical aspects of the set-up for experiment R 108, which uses a superconducting solenoid as an analyzing magnet, are presented. How the axial field can help in the search for magnetic monopoles is also discussed.

ELECTRONICS EXPERIMENTS COMMITTEE

Monday, May 17
14.30
Auditorium

Open Session

1. Introductory remarks by L. Van Hove.
2. A Status Report on Experiment S140 - Measurement of the reaction $K^-p \rightarrow \Lambda(\text{forward}) + \text{neutral meson}$ by CERN-Munich Cracow Collaboration; CERN/EEC-76/21 presented by W. Blum.
3. A Proposal for the study of properties of exotic light nuclei produced at the PS by CSNM-CNRS (Orsay) Collaboration; CERN/EEC-76/13 presented by R. Klapisch.
4. A Proposal for the measurement of the polarization parameter in p-n elastic and charge exchange scattering at 24 GeV/c by CERN-LAPP (Annecy)-Oxford Collaboration; CERN/EEC-76/17 presented by D. Crabb.

Closed Session

Tuesday, May 18
09.00
EP Conference Room

EP SEMINARS

Monday, May 17
11.00
Large Conference Room
(Lab.13 - 2.005)

"Inclusive Resonance Production in Hadron Collisions. Are there Any Directly Produced Pions ?"

by P.K. Malhotra

Abstract : Resonance production appears to be the dominant source of pions. Salient features of the production of ρ^0, f, ω, η , etc., in π^+p interactions and $K^*(890), K^*(1420)$ in K^-p interactions, at PS energies, will be described. A remarkable universality in the transverse momentum distribution for all the mesons is indicated by the data. The relative yields of the mesons will be compared with the recent predictions of a Quark Model. A self consistent picture for the production of ρ^0 in π^+p and pp interactions and that of K^{*0} in K^-p interactions, in terms of two components, namely the fragmentation and the central production, seems to provide a good description of all the available data.

Monday, May 24
11.00
Large Conference Room
(Lab.13 - 2.005)

" K^-d Interactions Around 1660 MeV and an Energy Dependent $\Sigma\pi$ PWA"

by V. Hepp

Abstract : Results of a 5.2 eV/ μ b bubble chamber experiment with incident K^- on deuteron will be presented. The energy range of this experiment is in the region between 1600 and 1750 MeV in which many resonances are present. Low energy Partial-Wave Analyses will be discussed.

CERN NUCLEAR PHYSICS
SEMINARS

Monday, May 17
11.00
Theory Conference Room

"QED, Vacuum Polarization and Recent Results from the SIN
Crystal Spectrometer"

by W. Sapp / SIN, Villigen

Abstract : A brief review will be given of tests of quantum electrodynamics with emphasis on recent remeasurements of vacuum polarization effects in muonic atoms, all from the experimentalist's point of view. This will be followed by a description of the SIN bent crystal spectrometer facility and a discussion of the latest results of muonic X-ray measurements with this instrument.

Monday, May 24
11.00
Theory Conference Room

" α -Particles as a Probe of Nuclear Structure"

by A. Faessler / Jülich

Abstract : The possible acceleration of α -particles by the SC and the PS brings physics to be done by α -beams also to the general interest at CERN. The seminar will give a review of a few recent developments of nuclear research with α -beams : (i) The (α , xn) reaction is especially suited to transfer large angular momenta into nuclei. The strange behaviour of nuclei under the influence of large Coriolis and centrifugal fields is studied; (ii) In addition to the well-known giant dipole resonances one has detected within the last years also other giant resonances. α -particles turned out to be the best tools to study especially the E2-resonances; (iii) Furthermore it advocates (α , 2α) measurements in the GeV region to study energy and momentum distribution of α -particles in nuclei.

CERN COLLOQUIA

Tuesday, May 18
16.00
Auditorium

"The Immune System Viewed as a Network"

by G.W. Hoffmann / Basel Institute for Immunology

Abstract : Much current research in immunology is focussed on trying to understand the homeostatic mechanisms of stimulation and suppression that specifically regulate immune responses. It has been postulated by Jerne (Scientific American, July, 1973) that regulation involves the fact that antibodies can also act as antigens. Thus the production of specific antibodies in response to a foreign substance could in turn stimulate the production of "anti-antibodies" which would have specific feedback effects on the initial antibody-producing cells. A simple "plus-minus" network model has recently been devised, that possesses many of the experimentally observed regulatory properties. The model can be simulated using a set of non-linear differential equations. Such simulation indicates the existence of multiple stable states, oscillations, and various types of switching between states following antigenic stimulation.

Tuesday, May 25
16.00
Auditorium

"The Open University Approach to Physics Teaching"

by F.R. Stannard / The Open University U.K.

Abstract : In six years the Open University has become the largest university in Britain. With its innovative, multi-media methods of communication and its systematic use of educational technology, many regard it as a possible model for future universities. Recently Professor Stannard gave a talk at CERN on the OU teaching of high energy physics; on this occasion he will describe the university itself, how it tackles the more general problems of teaching physics, and how OU experience might be adapted to teaching in other institutions. The talk will include a showing of an abridged version of the film 'It is Never Too Late to Learn'.

SPECIAL NUCLEAR PHYSICS
SEMINAR

Wednesday, May 19
11.00
Theory Conference Room

"Review of Relativistic Heavy-Ion Programme at Berkeley"

by L. Schroeder / LBL, Berkeley

CERN PARTICLE PHYSICS
SEMINARS

Thursday, May 20
16.00
Auditorium

"A Study of 30 000 K_L Decays and the Low Energy $\pi - \pi$ Interaction"
by L. Rosselet / Université de Genève

Monday, May 24
16.00
Auditorium

"A Measurement of Gamma Ray Decays of ψ and ψ' at SPEAR"
by D.G. Aschman / SLAC

PS SEMINAR

Friday, May 21
10.30
PS Large Conference Room

1. Vers l'Opération d'un Faisceau de 10^{13} ppi au PS,
par E. Brouzet
2. The Continuous Transfer System at the PS,
by A. Krusche

Abstract : With 1.25×10^{13} ppp in the Booster, 1.1×10^{13} ppp were recently accelerated in the PS to 10 GeV/c. The high efficiency of the continuous transfer extraction allowed the transport of 1.025×10^{13} protons into the beam line to the SPS. These achievements resulted from a number of new equipment and accelerating procedures which will be described at the announced and at a second seminar in June.

SPS EXPERIMENTS
COMMITTEE

Tuesday, May 25
09.00
Auditorium

Open Session

1. Introductory remarks by L. Van Hove.
2. Proposal for the Determination of the η (2.8) Lifetime via the Primakoff Effect (Frascati-Milano-Pisa^C-Rome (FRAMM) Collaboration; L. Foà; SPSC/76-23/P 6/Add.3).
3. A Study of the Antiproton Annihilation Mechanism in 4π and 6π Final States at 15 GeV/c in Omega (Liverpool; J.R. Fry; SPSC/76-35/P 69).
4. Proposal to Study the Production of Neutral Particles in $\bar{p}p$ Interactions at 150 GeV/c in BEBC (Cambridge-Michigan State Collaboration; D.R. Ward; SPSC/76-38/P 68).
5. Proposal to Investigate Dimuon Events and to Search for 'New Particles' in Neutrino Interactions in an Emulsion Stack Coupled to BEBC (European Neutrino Collaboration ; M. Conversi; SPSC/76-41/P 70).

Wednesday, May 26
09.00
Conference Room
(6th floor - ADM Bldg.)

Closed Session

PRESENTATIONS TECHNIQUES
TECHNICAL PRESENTATIONS

Lundi 17 mai
09.00 - 16.00
Parking PTT (près Bât.ADM)

Langues : allemand, français

La maison Siemens (D) propose la démonstration d'une vaste gamme d'instrumentation, notamment : - oscilloscopes - oscillographes - enregistreur rapide - divers amplificateurs de mesure - enregistreur de défaut avec ligne de retard - mémoire de valeur instantanée - multimètres - multimètres digitaux - ordinateur analogique Dornier 80 ...

Lundi 17 mai
09.00 - 12.00
Salle de conférence Magasins
(Bât.73 - 2e ét. n° 2.027)

Langues : anglais, français

La maison Belling et Lee (UK), représentée par Matera AG (CH), expose divers composants électroniques : socles lampes signalisation - porte-fusibles - fusibles - disjoncteurs - connecteurs coaxiaux - terminaux - fiches et connecteurs multicontacts - câbles plats...

Renseignements :
M. Diraison / FI / 4585

Monday, May 17
09.00 - 16.30
SPS Site
(next to the Assembly Hall)

Languages :
English, French, German

As a result of the high level of interest shown in their products at last year's exhibition in Lab.I, the firm KNÜRR AG, 8152 Glattburg, will this year be at SPS site to show MECHANICS FOR ELECTRONICS which amongst other items includes : 19" cabinets and racks, laboratory benches; 19" fan plug-in, instrument cases; plug-in chassis NIM and CAMAC; desk top and floor standing consoles, laboratory trolleys; TV monitors carriers.

Information :
H. Bersinger / SPS / 5195

Wednesday, May 19
09.00 - 16.30
Stores Conference Room
(Bldg.73 - 2nd fl. - R.027)

Languages : English, French

Bourns AG (CH) exhibit components from Precision Monolithic Inc. & Semtech : - instrumentation operational amplifiers - precision comparators - analog digital converters - precision voltage references - high voltage display drivers - matched transistors - general purpose and fast recovery rectifiers up to 30 ns and 50 A - high voltage rectifiers - multipurpose bridge assemblies - Zener voltage regulators and transient voltage suppressors.

Information :
M. Diraison / FI / 4585

enseignement

ENSEIGNEMENT GENERAL

Jeudi 20 mai
13.00 - 13.30
Amphithéâtre

Science pour Tous, par R. Carreras

Programme (pour détails, voir affiches) :

1. En bref

- a. Vu, lu et entendu.
- b. Les antennes des insectes détectent les ondes électro-magnétiques.
- c. Nouvelle théorie de la tache rouge de Jupiter.

2. Question

Pourquoi la vaccination contre le tétanos est-elle efficace alors que la maladie elle-même ne confère pas d'immunité ?

3. Thème principal

"Le comportement des bactéries"

ENSEIGNEMENT TECHNIQUE

Séminaire Microprocesseurs

A la demande et en collaboration avec le Groupe de Travail Microprocesseurs du Groupe de Standardisation Electronique, une série d'exposés techniques et de démonstrations aura lieu suivant le programme ci-dessous :

- Lundi 17 mai : 09h00 - Conférence d'introduction aux Microprocesseurs, par G. Amato
: 10h45 - Table ronde - discussions
- Mardi 18 mai : 09h00 - Conférence et présentations techniques de la maison Texas Instruments
- Mercr. 19 mai : 09h00 - Conférence et présentations techniques de la maison Intel
- Jeudi 20 mai : 09h00 - Conférence et présentations techniques de la maison Philipps-Signetics
- Lundi 24 mai : 09h00 - Conférence et présentations techniques de la maison National Semiconductors
- Mercr. 26 mai : 09h00 - Conférence et présentations techniques de la maison Motorola.

Ces conférences et présentations auront lieu dans l'amphithéâtre, Bâtiment de l'Administration, sauf celles des 20 et 24 mai qui auront lieu dans la Salle du Conseil.