

# seminars

## CERN NUCLEAR PHYSICS SEMINARS

Monday, March 22  
11.00  
Theory Conference Room

"Low-energy pion-nucleus scattering in optical potential and dispersion relation treatments"  
by H. Pilkuhn / Karlsruhe University  
Abstract : The rapid rise of the pion-nucleus cross sections above threshold complicates the description of elastic scattering in that region. The scattering length approximation for s-waves turns out to be useless except for mesic atoms. Unlike pion-nucleon scattering, the onset of inelastic scattering should reflect itself strongly in elastic scattering. The necessary changes in optical potential and dispersion relation treatments are discussed.

Monday, March 29  
11.00  
Theory Conference Room

"A Relativistic 3-Body Theory"  
by V.B. Mandelzweig / The Hebrew University of Jerusalem  
Abstract :  $\pi$  D elastic scattering in the (3,3) resonance region, is examined in a three-body theory, including rescattering to all orders. Only the  $P_{33}$  interaction is included, but for this all spin and isospin effects are retained. Pion rescattering is shown to produce significant effects, as does the deuteron d-state. The static approximation is also examined, and shown to produce large differences from the exact calculation.

## CERN PARTICLE PHYSICS SEMINAR

Tuesday, March 23  
16.30  
Auditorium

"Cosmic ray indications concerning hadron interactions"  
by E. Feinberg / Lebedev Institute, Moscow

## INTERSECTING STORAGE RINGS COMMITTEE

Wednesday, March 24  
11.00  
6th Floor Conference Room  
Administration Building

Closed Session

## PS SEMINAR

Friday, March 26  
11.00  
PS Large Conference Room

"Present and future problems of SC2 operation and utilization"  
by B. Allardyce and G. Le Dallic

## EP SEMINAR

Monday, March 29  
11.00  
Large Conference Room  
Lab.13 2.005

"New Results on  $S = -1$  Baryons from Partial Wave Analyses of  $\bar{K}N$  Two Body Reactions Between 1480 and 2170 MeV"  
by R.T. Ross / Rutherford Laboratory  
Abstract : Partial wave analyses of the reactions  $\bar{K}N \rightarrow \bar{K}N$ ,  $\Sigma\pi$ ,  $\Lambda\pi$  using world data from 1480 to 2170 MeV c.m. energy including new data in the region 1775 to 1960 MeV are presented. The three channels have been analysed in parallel using energy dependent partial wave analysis techniques. The results are compared with those of previous analyses.

## CERN COLLOQUIUM

Tuesday, March 30

16.30

Auditorium

Werner Heisenberg Memorial lecture :

"The Birth of Quantum Mechanics"

by J. Mehra / Inst. Internationaux de Physique et de Chimie,  
Solvay, Bruxelles et Université de Genève

Abstract : In an attempt to give an exact mathematical formulation of Bohr's Correspondence Principle, Heisenberg (June 1925) discovered the rules governing the behaviour of quantum-theoretical magnitudes. In fall 1925 Born, Heisenberg and Jordan and, independently, Dirac, formulated consistent algebraic schemes of quantum mechanics. Early in 1926 Schrödinger developed wave mechanics. In quick succession were discovered : Born's probability interpretation of the wave function, the transformation theory of Dirac, Jordan and F. London, Heisenberg's uncertainty relations and Bohr's principle of complementarity. By September 1927 the basis of a complete theory of atomic phenomena had been established. Aspects of this development, in which Heisenberg played a central role, will be presented as a tribute to his memory.

## PRESENTATIONS TECHNIQUES

Lundi 22 mars

09.30 - 16.30

Salle de conférence 1-007  
(Bât. 17)

La maison KONTRON AG (CH) propose la démonstration des modèles d'enregistreurs W + W (CH) 600, 900, 1100 et 1200; à 1, 2, 3, 4 ou double trace, 18 sensibilités 0,5 mV à 500 V, 20 vitesses jusqu'à 60 em/min.

Langues : Allemand, français.

Mercredi 24 mars

09.00 - 16.30

Bus de démonstration  
Parking PTT (près Bât.ADM)

La maison RADIALL (F) expose les matériels suivants : accessoires microondes coaxiaux et guides, commutateurs et connecteurs coaxiaux, cordons coaxiaux surmoulés, cordons coaxiaux spéciaux sur demande, fiches bananes professionnelles, accessoires pour la télédistribution, connecteurs multicontacts, composants divers.

Langue : Français.

Renseignements :

M. Diraison / FI / 4585

Lundi 29 mars

09.00 - 12.00

SPS - Bloc 1 - Salle 2 A 05  
(2ème étage, aile côté Jura)

La firme DANA Electronic fera une présentation d'une vaste gamme de matériel électronique dont elle assure la vente et l'après-vente en France; ce matériel provient des firmes DANA, EIP, EXACT ELECTRONICS et CUSHMAN ELECTRONICS, et comprend entre autres : Multimètres à cristaux liquides (rapides et contrastés), fréquencesmètres, compteur universel, compteur à microprocesseur, générateurs de fonction, synthétiseur de fréquence, compteur automatique hyperfréquence, banc de test portable, voltmètres sélectifs, psophomètres.

Langues : Allemand, anglais, français.

Renseignements :

H. Bersinger / SPS / 5195

# enseignement

## ENSEIGNEMENT GENERAL

Jeudi 25 mars

13.00 - 13.30

Amphithéâtre

Science pour Tous, par R. Carreras

Programme (pour détails, voir affiches) :1. En bref

- Vu, lu et entendu.
- Comment utiliser l'énergie solaire captée et stockée par les océans tropicaux.
- Traitement des minerais à l'aide de microbes.

2. Question du jour (atomes géants).3. Thème principal : Les "Breeder" européens.