

SEMINARS SEMINAIRES

MONDAY 24 APRIL

EP SEMINAR

at 11.00 hrs - EF Conference Room
(Bldg. 13-2-005)

"Some results from 2 FNAL broad band
(anti)neutrino-neon experiments"

by H.H. Bingham / Berkeley

Abstract: Further analysis of the E 546 4-lepton event will be discussed, also E 172 results on di-lepton production by neutrinos and antineutrinos, on μ -e universality tests and on the hadron systems produced in $\nu(\bar{\nu})$ -Ne interactions

ISR SEMINAR

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

"Stochastic Cooling"

by F. Sacherer / ISR

CERN NUCLEAR PHYSICS SEMINAR

at 16.00 hrs - TH Conference Room

"Pion condensation in finite nuclei?"

by J. Meyer-ter-Vehn / Institut für
Kernphysik, Jülich

Abstract: Pion condensation has been predicted to occur in neutron stars as well as in isospin symmetric nuclear matter at high density (e.g. in relativistic heavy ion collisions). In order to check the empirical information available from normal nuclei, the pionic field inside finite nuclei and its relation to pionlike nuclear excitations (0^- , 1^+ , 2^- , ...; $T=1$) is investigated.

TUESDAY 25 APRIL

CERN COLLOQUIUM

at 16.00 hrs - Auditorium (*)

"Success and failure in mathematical physics"

by W. Thirring / Vienna University

Abstract: For some problems mathematical analysis can provide answers which are very hard to guess by physical intuition. This is illustrated with the KAM theorem, the singularity theorems in general relativity and the problem of stability of matter.

(*) Note: Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 15.30 hrs to meet the speaker and for informal discussion. Tea and coffee will be provided.

WEDNESDAY 26 APRIL

THEORETICAL SEMINAR

at 14.00 hrs - Theory Conference Room

"Quark confinement and the centre of the gauge group"

by G. Mack / DESY

DD SEMINAR

at 16.00 hrs - DD Amphitheatre,
(Bldg. 31 - 3rd floor)

"New computer control languages - can they be simple and yet powerful?"

by P.T. Jensen

Abstract: Compared with programming languages, current computer control languages have a rather poor expressive power as indicated by their primitive structures and the overwhelming number of parameters.

The question in the title will be answered in the positive by describing a control language which

- is simple and easy to remember;
- is common for both interactive and batch use;
- relies on well-known concepts from programming languages.

The seminar will stress primarily the following aspects:

- a) control language variables and block structure;
- b) access to permanently stored data.

Currently the system is implemented only on IBM machines.

THURSDAY 27 APRIL

IBM SEMINAR

9.30 hrs - 11.00 hrs - DD Amphitheatre
(Bldg. 31, 3rd floor)

"OS/VS Virtual Storage Access Method (VSAM)"

by Miss Penny Hallsworth / IBM International
Support Centre, London

Abstract: A general presentation of the OS/VS Virtual Storage Access Method (VSAM) will be given, with emphasis on practical experience with VSAM, and its advantages for some types of application. The handling of large files will be discussed.

The presentation will be followed, in the afternoon by an informal discussion of VSAM questions. This discussion will start at 2.00 p.m. also in the DD Amphitheatre, Bldg. 31, 3rd floor.

THURSDAY 27 APRIL

ESO ASTROPHYSICS SEMINAR

at 11.30 hrs - ESO Conference Room
(Bldg. 593)

"Observations and Theory of Dwarf Novae"

by J.A.J. Whelan / Institute of Astronomy
Cambridge, UK

Abstract: The current theoretical model for a dwarf nova consists of a close binary system containing a late spectral type star transferring mass via a stream, bright spot and accretion disc onto a white dwarf star.

This seminar will describe, briefly, the observational background which has led to the above generalized model, and the observational behaviour of dwarf novae. (Much important work has been done by N. Vogt of ESO.)

The main part of the seminar will present the results of spectroscopic data for two dwarf novae, Z Cha and V 436 Cen, obtained with the Wampler scanner (IDS) at the Anglo-Australian Telescope.

An approximate way of computing the theoretical emergent optical spectrum of a steady-state accretion disc will be presented and the results compared with the data.

Finally, very briefly, dwarf novae will be placed in astrophysical context in terms of late-stages of stellar evolution, mass exchange and X-ray sources.

CERN PARTICLE PHYSICS SEMINAR

at 16.00 hrs - Auditorium (*)

"The triggered bubble chamber technique and its application to line reversal tests in hyper-charged exchange reactions and direct electron production in πp collisions"

by P. Dornan / Imperial College, London

Abstract: The first results from experiments performed in the SLAC Hybrid Facility will be given. The facility uses the SLAC 40-inch rapid cycling bubble chamber with counters up-and-downstream so that evidence for an interesting reaction may be sensed before the lights are flashed. Track measurements and particle identification are also aided by the combination of bubble chamber and electronic methods.

Comparisons of the cross-sections and polarisations for $\Sigma^+(1189)$ and $\Sigma^+(1385)$ productions, from $\pi^+p + K^+p$ interactions at 7 and 11.6 GeV/c will be given and results related to exchange degeneracy predictions and Regge models. In a second experiment tantalum plates in the chamber were used to detect electrons produced in 18 GeV/c π^+p interaction. Charge balance in the observed interactions enabled anomalous electron production to be classified as single or pair production. Latest results will be given on the e/π ratio from both the singles and pairs categories.

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MONDAY 1 MAY

CERN NUCLEAR PHYSICS SEMINAR

at 16.00 hrs - TH Conference Room

"Muon induced fission"

by G. Tibell / CERN

TUESDAY 2 MAY

CERN COLLOQUIUM

at 16.00 hrs - Auditorium

"Newton's principia, the work and its effect"

by D. Speiser / Université Catholique de Louvain

WEDNESDAY 3 MAY

SPS EXPERIMENTS COMMITTEE

at 09.00 hrs - Conference Room, 6th floor,
Administration Building

Agenda for the Fifty-fourth Meeting (BUH. 18)
(Only closed Session)

LEP SUMMER STUDY - PRELIMINARY LEP MEETING

at 11.30 hrs - Auditorium (Open Meeting)

11.30 hrs LEP Working Group within ECFA
(M. Vivargent)

12.30 hrs The LEP Project: Physics Prospects
(S. Fubini)

Project Steering (F. Bonaudi)

13.00 hrs LUNCH BREAK

14.30 hrs Status Report on the LEP-70 Design
Study:
Parameters and Performance (E. Keil)
Engineering of Components (W. Schnell)
Facilities (C. Zilverschoon)

16.00 hrs COFFEE BREAK

16.30 hrs Discussion of the LEP Design Study

17.00 hrs The Summer Study at Les Houches
(M. Jacob)

For questions or comments please call M. Jacob,
int. 2414, Secretary of the Organizing Committee

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POUR INFORMATION / FOR INFORMATION

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SEMINAIRE DU LAPP

à 10h30 - Amphithéâtre du LAPP

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

"Résultats des expériences beam dump neutrino
au CERN"

par M. Haguénauer / CERN

*Résumé: Description et discussion de l'expérience
beam dump neutrino dans Gargamelle. Comparaison
avec les résultats dans BEBC et de WA1. Analyse
en termes de sections efficaces de production de
particules charmées.*

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