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Division du Personnel
Tél. 3238-4682

SEMINARS **SEMINAIRES**

Monday 16 November

EF SEMINAR

at 11.00 hrs – EF Conf. Room
bldg 13, 2-005

**Software development for microprocessors
using OS-9**

by Tim CHARITY / CERN-EP

OS-9/68K is a multi-user operating system for the Motorola 68xxx microprocessor family which has been selected for use in the ALEPH and OPAL online systems, and is used by various other groups at CERN. The use of OS-9 as an environment for software development will be illustrated using examples showing the creation, compilation, execution, and debugging of application programs written in 'C'. The development of

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or

'ATTESTATION DE FONCTIONS'

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- Staff Records for staff members
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Please note that if the card has no space for further validation, **two recent** passport photographs should be sent with the old card so that a new one may be prepared.

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NOTE : *Specific instructions are being issued for the extension of Swiss 'CARTES DE LEGITIMATION'. So please wait for these instructions before sending the cards to the above-mentioned services.*

Personnel Division
Tel. 3238-4682

system modules such as device drivers will also be shown, together with the porting of OS-9 to different hardware configurations.

Monday 16 November

PROTON SYNCHROTRON
AND SYNCHRO-CYCLOTRON COMMITTEE

at 14.30 hrs – Council Chamber

Open session

1. Search for beta decay of the neutron halo in light nuclei (Aarhus-CERN-Göteborg-Madrid; PSCC/87-30/P106; 87-31/S106; P.G. Hansen).

2. *Nuclear structure of $N \approx 56$ krypton isotopes and $Q\beta$ -measurements of very neutron-rich nuclei in the mass region around $A = 100$ (Mainz-Lund-ISOLDE collaboration and Braunschweig-ISOLDE collaboration; PSCC/87-33/P107; 87-34/S107; K.-L. Kratz).*
3. *Status report on electron cooling at LEAR.*
4. *Status report from the PS Co-ordinator.*

Closed Session

Tuesday 17 November at 9.00 hrs in the 6th floor Conference Room.

Monday 16 November

EP SEMINAR

at 16.30 hrs – Auditorium

The ALEPH TPC

by Robert JOHNSON / University of Wisconsin, Madison

A large Time Projection Chamber is being constructed for the ALEPH experiment at LEP, to be used for charged particle tracking and particle identification by dE/dx measurement. The principles of particle tracking in a TPC will be reviewed, followed by a presentation of the design and present status of the ALEPH TPC. Measurements of cosmic ray and laser tracks, made in both a prototype TPC and the already partially instrumented full scale version, will be presented, and special emphasis will be placed on a discussion of offline reconstruction of TPC data.

Tuesday 17 November

MEETING ON FASTBUS DEVELOPMENTS

at 09.00 hrs – Theory Conference Room

1. *FASTBUS news from the USA*
by H. MÜLLER / CERN
2. *Developments in FASTBUS at the University of Illinois*
by L. PREGERNIG / CERN
3. *The front end electronics for the ALEPH electromagnetic calorimeter*
by R.L. CHASE / Orsay
4. *Ongoing ideas for FASTBUS serial diagnostic networks in the US*
by R. DOBINSON / CERN
5. *A.O.B.*

Tuesday 17 November

STUDY TEAM FOR CERN HISTORY

at 09.15 hrs – DD Conference Room
bldg 31, 3-005

Second seminar on CERN History, 1954-1965

- 9.15 *Opening of the seminar*
- 9.30 *The overall development of CERN's finance and contract policy*
by J. Krige
Rapporteurs : J.H. Bannier & M. Hine
- 10.20 *Coffee break*

- 10.40 *The organization of the experimental work at CERN*
by D. Pestre
Rapporteurs : Ch. Peyrou & G. Salvini
- 11.30 *The first six years of physics with the Proton Synchrotron*
by U. Mersits
Rapporteur : L. van Hove
- 12.20 *Lunch*
- 14.00 *Particle physics carried out with the Synchro-cyclotron*
by U. Mersits
Rapporteur : G. Fidecaro
- 14.50 *Towards the building of new accelerators, the ISR and the 300 GeV PS*
by D. Pestre
Rapporteur : K. Johnsen
- 16.00 *Was CERN ready in time? Providing big equipment to exploit the PS in the early 60s*
by J. Krige
- 17.00 *End of seminar*

Tuesday 17 November

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

New results on charm and beauty baryon production at the ISR

by L. CIFARELLI / INFN, Bologna

The results of experiment R422-ISR are presented. The experiment was devoted to the study of heavy flavour production in pp interactions at $\sqrt{s} = 62$ GeV. The search for open heavy flavoured states was centred on two basic points : (i) the invariant mass analysis of their hadronic decay products; (ii) the presence of high p_t single electrons (or positrons) from the semileptonic decay of the associated antistates. A data sample of 33 millions events, corresponding to an integrated luminosity of $1.27 \times 10^{37} \text{ cm}^{-2}$, has been studied. The Λ_c^+ baryon production, in coincidence with an e^- trigger from the associated $\bar{c}$ -state decay, is reported, together with its longitudinal and transverse production distributions. The Λ_b^0 baryon production, via two different decay channels, in events carrying an e^+ signature from the associated $\bar{b}$ -state decay, is also reported. The 'leading' effect in heavy flavoured baryon production is confirmed. Model dependent estimates of the cross-sections are discussed.

* Tea and coffee will be provided at 16.00 hrs.

Wednesday 18 November

THEORETICAL SEMINAR

at 14.00 hrs – Theory Conference Room

Generalization of Sturm-Liouville theory

by C.N. YANG / SUNY, Stony Brook

The Sturm-Liouville theory is generalized to Dirac-like equations through the generalization of (1) the powerful comparison theorems which lead to the concept of the phase angles (logarithmic derivatives) and (2) identification of the problem with an integral equation with symmetrical kernel.

Mercredi 18 novembre

REUNION OUVERTE DU LEP

à 14.30 hrs – Amphithéâtre LEP
bât. 30, 7e étage

Le système d'aimants du LEP

par J.P. GOURBER / CERN-LEP

Un aperçu global des différents aimants, de leurs performances et des techniques de fabrication et de mesures sera donné. Les chantiers d'assemblage en surface, d'installation et de raccordement dans le tunnel seront présentés.

Thursday 19 November

BERNARD GREGORY LECTURE

at 16.30 hrs – Auditorium

To explore the 1 TeV scale

by Chris QUIGG / Deputy Director of
Operations, SSC Central Design Group, Berkeley

The Gregory Lectures, in memory of Bernard Gregory, CERN Director-General 1966-1971, started in 1979 with V.F. Weisskopf and C. Marchetti in 1980. The lecture series was interrupted for various technical reasons and C. Quigg will thus give the third lecture. Traditionally there are lectures at CERN and in Paris.

Friday 20 November

PRESENTATION

at 10.00 hrs – DD Amphithéâtre
bldg 31, 3-005

Transputers and OCCAM

by A. ROSSET / Archipel, USA

Archipel is actively working with networks of transputers and their corresponding development systems. The presentation will include an overview of the technology and available software tools. The different possible architectures will be discussed together with the application of parallelism to scientific calculations. There will also be a demonstration of the available hardware and software products.

Monday 23 November

EF SEMINAR

at 11.00 hrs – EF Conf. Room
bldg 13, 2-005

Progress in DELPHI RICH construction

by Ettore ROSSO / CERN-EF

After an intense phase of research, development and test of prototypes, the DELPHI Barrel RICH collaboration has overcome all major difficulties. The design of the detector has been frozen and its construction is at present well advanced. In particular the first drift bi-tube made out of quartz plates equipped with Cr-Cu strips deposited by vacuum evaporation has been designed and produced at CERN and successfully tested.

Monday 23 November

EP SEMINAR

at 16.30 hrs – Auditorium

Recent results on J/ψ decays from Mark III

by Gerald EIGEN / CalTech

New results on $J/\psi \rightarrow \gamma \phi \phi$ and $\gamma K^ K^*$ are presented and compared to previous results on $\gamma \rho \rho$ and $\gamma \omega \omega$. Several new pseudoscalar states are observed, which are not yet understood and may indicate new physics. The $\eta \pi \pi$ mass spectra recoiling against a photon, an ω and a ϕ are compared yielding new information about the $f_1(1285)$ and $f_1(1240)$. The status of the $\iota/\eta(1440)$ is reviewed. A new Dalitz plot analysis of the ι region in $J/\psi \rightarrow \gamma K K \pi$ is discussed. The $K K$ mass spectra from the radiative decay and the hadronic decays $\omega K K$ and $\phi K K$ are compared.*

Tuesday 24 November

TECHNICAL PRESENTATION

09.30-12.00 hrs and 14.00-16.00 hrs

LEP Auditorium – bldg 30, 7th floor

One-day technical seminar by the Electronic Tubes Division (Solid State Devices Department) of Thomson-CSF (F). Intended for both specialists and laymen, this seminar covers present trends in CCD (Charged-Coupled Devices) technology.

Language : English

Information : M. Diraison / FI / 4585

Tuesday 24 November

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Exotics and light meson spectroscopy with GAMS

by J.P. STROOT / IISN, Brussels

Wednesday 25 November

PRESENTATION

from 09.00 to 12.00 hrs

Theory Conference Room

Systems and silicon

by E. SHARP / ES2

Wednesday 25 November

CAS ACCELERATOR SEMINAR

at 14.30 hrs – Auditorium

The third lecture in the John Adams' Memorial Lecture Series

The proton-antiproton collider

by L. EVANS / CERN