

SEMINARS SEMINAIRES

Monday 18 & Tuesday 19 June

INTERMEDIARY ECFA LHC
WORKING GROUPS MEETING

Auditorium

Monday 18 June

- 09.30 Opening Address (C. Rubbia)
- 10.00 LHC Machine Design (G. Brianti)
- 10.45 Coffee
- 11.00 Experimental Areas (L. Leistam)
- 11.40 Tracking Issues (D. Saxon)
- 12.05 Detector Concept and Limitations (H. Leutz)
- 12.30 LUNCH
- 14.00 Higgs Search (D. Froidevaux)
- 14.30 Heavy Top (L. Fayard)
- 15.00 b-Physics (S. Erhan)
- 15.30 Standard Processes (P. Nason)
- 16.00 Tea
- 16.30 Event Generation (R. Kleiss)
- 17.00 Supersymmetry (F. Zwirner)
- 17.30 New Vector Bosons (M. Greco)
- 18.00 Alternative Symmetry Breaking (S. Dimopoulos)
- 18.30 End of session

Tuesday 19 June

- 09.00 e-p Physics (R. Rueckl)
- 09.50 Measurement of D.I.S. (J. Feltesse)
- 10.10 e-p Detector and Interaction Region (W. Bartel)
- 10.30 Coffee
- 10.45 Nucleus-Nucleus, QCD Thermodynamics (H. Satz)
- 11.25 Higgs Search and Gamma-Gamma Physics (D. Zeppenfeld)
- 11.35 Experimental Aspects (H. Specht)
- 11.45 Generators & Simulation, Software eng. (R. Brun)
- 12.30 LUNCH
- 14.00 Status on radiation tests for future detectors (H. Schonbacher)
- 14.25 Status on radiation resistant electronics available in Europe (F. Wulf)
- 14.45 Signal processing, Trigger, DAQ (S. Cittolin)
- 15.30 Muon Identification (K. Eggert)
- 16.15 Tea
- 16.30 Calorimetry (J. Colas, T. Virdee)
- 17.15 Electron Identification (T. Akesson)
- 18.00 Conclusions

Monday 18 June

EP SEMINAR

at 16.30 hrs – Council Chamber*

Polarization at SLC

by Mina PEDRATZA / SLAC

Brief description of the physics issues addressed with polarized electrons. Report on the status of the polarized source, spin rotation system, and polarimeters.

* Please note change of place!

Tuesday 19 & Wednesday 20 June

PRIAM PRESENTATION

at 10.00 hrs – PS Conference Room
bldg 6, 2-004

by Creative Electronic Systems S.A.

During the two days, CES will be showing their latest developments with the accent rather on informal discussions and demonstrations than formal presentations. Creative Electronic Systems SA (CES) is one of the four manufacturers of VMEbus equipment subject to a CERN 'blanket purchase' contract.

The programme is as follows :

Tuesday 19 June

at 10.00 hrs

- OS-9 workstations based on the FIC8232 (MC68030-based VMEbus CPU module)
- Connections between VMEbus, IBM-PC, MacintoshII and SUN workstations using VICbus (VME inter-crate bus) : hardware and software.
- Connection of CAMAC (CBD8210), Fastbus (FVSBI9210) and Ferabus (HSM8170) equipment to VMEbus : hardware and software

at 14.00 hrs

- VxWorks real-time kernel (Wind River Systems) on FIC8230 (MC68020), FIC8232 (MC68030) and VIC8250 (VICbus interface)

Wednesday 20 June

at 10.00 hrs

- RAID8235 (MIPS R3000-based VMEbus CPU module)
- Connection between VMEbus and a Silicon Graphics workstation using the VICbus
- VAX in VMEbus : the RTV8292 (DEC CVAX-based VMEbus CPU).

The CES representatives will be available on both days (until noon on Wednesday 20) for informal discussions).

Organizer : C. Parkman / 3963 / PMN@CERNVM

Wednesday 20 June

PS SEMINAR

at 09.00 hrs* – PS Auditorium
bldg 6, 2-024

Radiation safety in the PS

Agreements and obligations regarding radiation safety at CERN, the resulting policy and methods of implementation

by K. Goebel

Radiation from the PS and how it is managed

by A.H. Sullivan

Other radiation sources of interest to the PS, i.e. lasers, RF, magnetic fields

by J. Tuyn

The assessment of radiation dose to individuals

by M. Höfert

Each session will last about half an hour with a coffee break after the second session.

* Please note unusual time!

Wednesday 20 June

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Title to be announced

by E. BREZIN / Ecole normale supérieure,
Paris

Wednesday 20 June

COMPUTER SEMINAR

at 16.00 hrs – Auditorium*

The issue of computability in physical laws

by Roger PENROSE / University of Oxford

There are reasons (coming from mathematical logic and from the ways that mathematicians do mathematics) to believe that conscious brain action may have a non-algorithmic ingredient. How can this be possible? In this talk, the question of whether the known physical laws are in fact computable (i.e. algorithmic) will be addressed. The relevance of the quantum measurement problem to these issues will be of particular concern.

Roger Penrose is Rouse Ball Professor of Mathematics at Oxford and a Fellow of the Royal Society. He has received many honours, including the Eddington Medal, the Dirac Prize, the Wolf Prize, the Royal Medal and most recently the Einstein Prize and Medal. His newly published book, 'The Emperor's New Mind', is an international best-seller and explores the questions to be discussed in this seminar.

* Tea & coffee will be served at 15.30 hrs

Friday 22 June

MEETING ON

PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

Radiative corrections to Bhabha scattering

by W. BEENAKKER / Leiden University

Radiative corrections to Bhabha scattering are discussed. Special attention will be paid to the structure function method in combination with the implementation of energy and angular cuts. Furthermore the results of a semi analytical evaluation for large angle Bhabha scattering will be presented incorporating

- weak corrections
- exact order α QED corrections
- order α^2 leading log corrections
- exponentiation of soft photons.

Lundi 25 juin

PRESENTATION TECHNIQUE

de 10.00 à 16.00 h – Amphithéâtre DD
bât. 31, 3-005

Eurodat (F), spécialisé en format DAT (Digital Audio Tape) permettant la sauvegarde de 1,2 gigaoctets sur une cassette format carte bancaire, propose la démonstration de lecteurs compatibles avec la plupart des systèmes existants (MAC, PC, PS2, DEC, VAX, SUN, etc.) et particulièrement bien adaptés aux réseaux (NOVELL, AppleShare, PC Lan, etc.

Produits en démonstration : DataVault de TECMAR (USA), cassettes MicroDat d'Eurodat (J/F).

Langue : français

Renseignements : M. Diraison / FI / 4585

Monday 25 June

PROTON SYNCHROTRON AND SYNCHRO-CYCLOTRON COMMITTEE

Open session

Monday 25 June

at 14.00 hrs – Council Chamber

1. *A review of the ISOLDE programme (B. Jonson).*
2. *Proposal : Precision measurement of the energies and line shapes of antiprotonic Lyman and Balmer transitions from hydrogen and helium isotopes (Jülich - PSI Villigen - CERN - Islamabad - Mississippi - Gaithersburg - Neuchâtel; PSCC/90-9/P124; 90-10/S124; D. Gotta).*
3. *Progress Report on Expt. PS 196 - Precision comparison of $\bar{p}$ and p masses in a Penning Trap (Harvard - Mainz - Washington; G. Gabrielse).*

Closed session

Monday 25 June

at 16.00 hrs – Salle B (bldg 61, 1st floor)

continued Tuesday 26 June

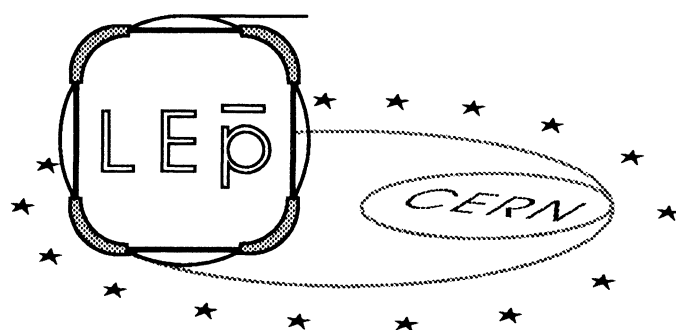
at 09.00 hrs – 6th floor Conference Room

Workshop

on the

Future of

Low Energy $\bar{p}$ Physics at CERN



CERN, 27 - 28 June 1990

LEP Auditorium, Bldg. 30, 7th Floor

**Physics Possibilities with Low and Medium Energy Antiprotons
at CERN beyond the present LEAR Programme**

Topics include

Spectroscopy of Heavy Mesons	Antihydrogen
Search for Heavy Exotics	Fundamental Symmetries
Charmonium Production and Decay	QED in Strong Fields
Two-Body Reactions	Atomic Interactions of Antiprotons
CP Violation in Hyperon Decay	Colour Transparency
Machine aspects: LEAR and beyond	H Particle Searches
	Pontecorvo Reactions
	Hot Hadronic Matter

For further information, please contact one of the following:

Tel. (CERN Ext.)

E-MAIL

John Eades
Carlo Guaraldo
Niko Hamann
Rolf Landua

4273
3078
6094
2051

EADES@VXCRNA.CERN.CH
GUARALDO@VAXLNF.DECNET.CERN.CH
HAMANN@CERNVM.CERN.CH
LANDUA@CERNVM.CERN.CH

Tuesday 26 June

PRESENTATION

at 14.00 hrs – DD Auditorium
bldg 31, 3-005

New product updates

by M. BENARD / Hewlett Packard

Tuesday 26 June

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Laser spectroscopy of hydrogen and antihydrogen

by T.W. HAENSCH / Max Planck Institut

Mercredi 27 juin

PRESENTATION TECHNIQUE

de 09.00 à 12.00 h & de 14.00 à 16.30 h
bât. 73, 2-027

Les firmes VAT et COMVAT (CH), spécialistes du vide et de l'ultravide, présentent leur programme de fabrication : vannes à vide, soufflets soudés et compensateurs.

Langues : allemand, anglais, français

Renseignements : M. Diraison / FI / 4585

TRAINING AND EDUCATION ENSEIGNEMENT

Thursday 28 June

SPECIAL SEMINAR

at 16.30 hrs – Auditorium

Recent developments in high-speed CMOS A/D conversion

by P.R. GRAY / University of California

Vendredi 29 juin

PRESENTATION TECHNIQUE

de 10.00 à 12.00 h & de 14.30 à 17.00 h
bât. 31, bât. 31, 3-005

Evans & Sutherland Sarl (F), représentant E&S Computer Corporation (USA)

Langue : français

Renseignements : M. Diraison / FI / 4585

Friday 29 June

MEETING ON

PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

Soft hadronic interactions in the quark-gluon string picture

by A.B. KAIDALOV / ITEP, Moscow

ACADEMIC TRAINING

Tél. 2844-3364

20, 21 & 22 June

11.00 to 12.00 hrs – Auditorium

Trigger and data acquisition

by Ph. CHARPENTIER / CERN-EP

AS and INFORMATICS TUTORIALS 1990

- Title** : SGML/Bookie – A Second-level Course
- When** : Tuesday 26 June to Friday 29 June
09.00-12.00 hrs
- Where** : Technical Training Building 572, Room 25
- Subject** : This course is for users who are already quite familiar with the SGML/Bookmaster Text Processing system on IBM VM/CMS. The two main themes will be how to use Bookie efficiently and how to adapt it to one's special needs. The following topics will be treated in more or less detail, depending on the interest expressed by the audience.
- Style files or how to build your personal page layout
 - How to structure a large document
 - Overview of DVCF (Document Version Control Facility)
 - SCRIPT Processing options
 - Tips on using tables
 - Tables alternatives
 - OPCIT (Bibliography Package)