

SEMINARS SEMINAIRES

25, 26, 27, 28 et 29 novembre

PRESENTATION PERSONAL COMPUTER

à 09.00 h – Bât. 13, 1-020

Les Maisons APPLE, HP, TULIP, WALTER RENTSCH, DEC présentent une exposition / démonstration de leurs produits :

APPLE Laser Writer (Canon) – External disk drive 800 k – XL-Server + Apple Talk.

HP Laser Printer (Canon) – Ink Jet pour MacIntosh – VECTRA (nouveau compatible IBM) – Serie 300 (68020).

TULIP compatible IBM.

WALTER RENTSCH Laser Printer (Canon) – PJ-1080A colour printer pour MacXL.

DEC Laser Printer (Xerox).

Monday 25 November

TECHNICAL PRESENTATION

from 10.00 to 16.00 hrs – LEP Auditorium
Bldg 30, 7th floor

TEKTRONIX INTERNATIONAL AG (CH/USA) will present their new digital storage oscilloscopes series 2220/30 + 2430 : short introduction / presentation – specifications – technology – five selected measurements, with video projection and processing of measurement-data by means of personal computer – display – individual presentations.

Duration of presentation, approx. 45 minutes.

Languages : English, French

Information : M. Diraison / FI / 4585

Monday 25 November

EF SEMINAR

at 11.00 hrs – EF Conference Room
Bldg 13, 2-005

Progress on ACOL

by Eifionydd JONES / CERN

The CERN Antiproton Collector, ACOL, was approved and construction started in February 1984. It is to be built around the Antiproton Accumulator ring and promises a tenfold increase in accumulation rate, namely 6×10^{10} antiprotons/hour. The design and future operation is briefly described along with progress to date.

Monday 25 November

EP SEMINAR

at 16.30 hrs – Auditorium

Results from the UA5 experiment at the pulsed SPS collider

by D.R. WARD / Cambridge

In March / April 1985 proton-antiproton collisions were obtained at 900 GeV c.m. energy using the SPS collider in pulsed mode. Some results from the UA5 streamer chamber experiment at the pulsed collider will be presented, concerning cross-section measurements, general features of charged particle production, and a search for exotic events.

Mardi 26 novembre

PRESENTATION TECHNIQUE

de 10.00 à 16.00 h – Bât. 73, 2-027

OLYMPIA MACHINES DE BUREAU SA (CH/D) propose en démonstration la gamme de machines à écrire et de traitement de textes de sa nouvelle et silencieuse 'office-line' : Mastertype, Mastertype D, Startype, Standard 200, Standard 210, Professional 220, Super-type 240, Mastertext, ETX-I/ETX-I plus, ESW 3000K, ESW1000.

Langues : allemand, anglais, français

Renseignements : M. Diraison / FI / 4585

Tuesday 26 November

CERN COLLOQUIUM

at 16.30 hrs – Auditorium*

Electronic structure of matter – an alternative view point

by Walter KOHN / University of California
Santa Barbara

Since the 1920s it has been recognized that the electronic structure of matter (atoms, molecules, solids, etc.) is governed by the Schrödinger equation. In the last two decades an alternative description (formally exact) in terms of the electron density, $n(r)$, has been developed. In principle essentially all electronic structures are governed by a universal functional of the density $F[n(r)]$. In this lecture the basic ideas will be explained, recent developments, limitations and outstanding questions will be described and applications to numerous physical systems discussed.

* Tea and coffee will be provided at 16.00 hrs.

Wednesday 27 November

THEORETICAL SEMINAR

at 14.00 hrs – Theory Conference Room

Consistent and covariant anomalies and Chern-Simons terms

by P. COTTA-RAMUSINO / University of
Milan

Consistent chiral anomalies are considered within the framework of 'local cohomology'. The relation between consistent and covariant anomalies and Chern-Simons equation is discussed. Some conclusions are drawn for anomaly cancellation in field theories derived from superstrings.

Jeudi 28 novembre

PRESENTATION ET DISCUSSION

Présentation :

de 09.00 à 12.00 h et de 14.00 à 16.00 h

Bât. 13, 1-020

09.00 - 12.00 *Présentation simultanée des quatre imprimantes laser*

14.00 - 16.00 *MacCharlie, MacTablet, Uni disk 800 k*

Discussion :

à 16.00 h - Salle de Conférences EF

Bât. 13, 2-005

Discussion faisant suite à la présentation et destinée aux utilisateurs de MacIntosh. On y parlera des produits APPLE (soft et hard) pouvant intéresser le personnel des expériences au CERN.

Thursday 28 November

SPECIAL PS SEMINAR

at 11.00 hrs - PS Auditorium

Bldg 6, 2-024

The pseudo-spark switch. A new device for pulsed power applications

by G. MECHTERSHEIMER, R. KOHLER and R. MEYER

Pseudo-spark switches have been developed for laser applications, replacing both hydrogen thyratrons and high pressure spark gaps. At very small trigger energy these pseudo-spark switches have low jitter (< 1 ns) and are able to work at high repetition rates (up to 100 kHz) and fast rates of current rise (up to 500 A/ns). The switching capabilities are further improved by multi-channel pseudo-spark switches (MUPS) yielding a current rise rate of up to 2.4 kA/ns.

Jeudi 28 novembre

CONFERENCE

à 18.00 h - Auditorium

Les quarks dans l'univers et au laboratoire

par Léon VAN HOVE / CERN

Expériences en préparation au CERN pour vérifier les propriétés de la 'matière de quark', ultra-chaude, qui a dû remplir l'espace aux dix premières micro-secondes de l'univers.

Simultaneous translation

Organisation : Groupe astronomique des fonctionnaires internationaux.

Lundi 2 décembre

PRESENTATIONS

à 09.00 h - Amphithéâtre DD, Bât. 31, 3-005

à 14.00 h - Salle de Conf. EF, Bât. 13, 2-005

La Maison MICROSOFT présentera ses produits, et en particulier : EXCEL - FORTRAN 77 2.1 - BASIC 2.1.

Monday 2 December

PROTON SYNCHROTRON AND SYNCHRO-CYCLOTRON COMMITTEE

Open session

at 08.30 hrs - Council Chamber

PLEASE NOTE UNUSUAL TIME

1. *Proposal : Measurement of spin-dependence in proton-antiproton interaction at low momenta (Heidelberg - Houston - Karlsruhe - Madison - Mainz - Marburg - Munich - Rutgers Univ.; PSCC/85-80/P92; 85-81/S92; E. Steffens).*
2. *Proposal : Study of the spin structure of the neutron-antineutron channel at LEAR (Cagliari - Geneva - Karlsruhe - Torino - Trieste; PSCC/85-85/P93; 85-86/S93; F. Bradamante).*
3. *Status Report on experiment PS 174 : Precision survey of X-rays from proton-antiproton (antiproton-deuteron) atoms using the initial LEAR beam (Amsterdam - Birmingham - RAL - Williamsburg; J.D. Davies).*
4. *Status report on experiment PS175 : Measurement of the antiprotonic Lyman- and Balmer X-rays of anti-proton-H and antiproton-D atoms at very low target pressures (Karlsruhe; L.M. Simons).*
5. *Status report on experiment PS178 : Study of anti-neutron production at LEAR (Cagliari - Padova - Torino; T. Bressani).*
6. *Addendum to proposal P23 (experiment PS178) : Measurement of the antiproton on carbon 13 to anti-neutron plus boron 13 reaction (Cagliari - Indiana - Padova - Tel Aviv - Torino; PSCC/85-53/P23 Add. 2; A.I. Yavin).*
7. *Status report on experiment PS 182 : Investigations on Baryonium and other rare proton-antiproton annihilation modes using high-resolution neutral pion spectrometers (Basel - Stockholm - Thessaloniki; L. Tauscher).*
8. *Status reports from the (SC and PS) Co-ordinators.*

Closed session

at 11.30 hrs - 6th floor Conference Room, Administration Building.

Monday 2 December

EF SEMINAR

at 11.00 hrs - EF Conference Room

Bldg 13, 2-005

The UA2 upgrading

by O. GILDEMEISTER / CERN

The UA1 and UA2 experiments at the SPS-proton-antiproton-collider have led - among other interesting results - to the discovery of the weak intermediate bosons $W^\pm$ and Z^0 . To open new domains of physics the event statistics have to be largely enhanced. From 1987 onwards the collider luminosity is expected to be increased by a factor of about 10 with the help of the new antiproton collector ACOL. To make best use of it, the UA2 essentially needs improved background rejection for rare events. By keeping the basic philosophy of the UA2 design unchanged, the main aims of the upgrade

project are improvements of the electron identification and of the measurements of missing transverse energy for hard collisions. New end-cap calorimeters with tracking and preshower chambers in front are being constructed. A new set of cylindrical detectors around the vertex region will consist of a 'jet vertex detector' – drift chamber, a silicon counter array, a pair of transition radiation detectors, and a scintillation fiber detector.

Monday 2 December

PRESENTATION

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

Artificial Intelligence at Digital

by Bill KANIA / DEC, Hudson, Massachusetts

The trade press has given a wide exposure to XCON(R1) and XSEL which are among the first expert systems routinely used in a factory. Several expert systems are in use or in development at Digital. This seminar will present an overview of the work done and the experience gained at Digital's AI Technology Center in Hudson.

Bill Kania is AI Marketing Manager for Digital Equipment.

No specific knowledge of AI is required for this presentation which will last about 45 minutes.

Monday 2 December

CAS ACCELERATOR SEMINAR

at 15.00 hrs – Auditorium

John Adams and his times

by Professor E. AMALDI / Dipartimento di
Fisica G. Marconi, Università La Sapienza, Rome

The John Adams' Memorial Lecture will be an annual event which in future years will provide young and promising accelerator engineers and physicists with an opportunity to expose their work in the accelerator field.

The inaugural lecture will put the many very important contributions of John Adams into perspective, not only with respect to CERN, but also with respect to the development of high energy physics in the world.

Monday 2 December

EP SEMINAR

at 17.00 hrs – Auditorium

PLEASE NOTE UNUSUAL TIME

(EP Seminar preceded by J. Adams' memorial lecture)

Hadron spectroscopy – From upsilon to pi-zero

by S. COOPER

Tuesday 3 December

IBM PC USER FORUM

at 09.30 hrs – EF Conference Room
Bldg 13, 2-005

Due to popular demand at the first IBM-PC Forum, the second Forum will have as special topic 'Networking in

CERN'. The aim is to become more educated in networking possibilities and to develop a strategy for the future networking of IBM PCs at CERN.

1. Introduction by Ian WILLERS

2. The following speakers will give a 10 minute presentation on one aspect of networking at CERN:

a. Overview of CERN Networking, by Brian CARPENTER

b. Ethernet, by Mike GERARD

c. PC-Networks, by Charles CURRAN

d. Token-Ring, by Jacques ALTABER.

3. Open question and answer session on any IBM-PC related items.

Tuesday 3 December

PRESENTATION

at 14.00 hrs – PS Conference Room
Bldg 6, 2-004

A distributed expert system using VAX LISP and A.R.T.

by Mike STOCK / Composition System Inc., NY

Wednesday 4 December

LEP SEMINAR

at 14.30 hrs – LEP Auditorium
Bldg 30, 7th floor

Synchro-betatron resonances

by A. PIWINSKI / CERN-LEP

TRAINING AND EDUCATION ENSEIGNEMENT

ENSEIGNEMENT GENERAL Tél. 2844

Jeu-di 28 novembre

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS

Prochain exposé : 9 janvier 1986

ACADEMIC TRAINING Tel. 2844-3364

25, 26, 27, 28 and 29 November

11.00 to 12.00 hrs – Auditorium

Present trends in energy saving

by B. GIOVANNINI / University of Geneva