

SEMINARS SEMINAIRES

Monday 16 March

EP SEMINAR

at 16.30 hrs – Auditorium

Measurement of same sign dimuon production in high energy neutrino interactions

by Howard BUDD / University of Rochester

The CCFR collaboration presents our preliminary results on rates for the production of pairs of positive and of negative muons in neutrino and antineutrino interactions with energies of 30-500 GeV. The results are based on 1.7 million neutrino and antineutrino interactions taken with a wide band beam at Fermilab. An explanation of the data does not require an anomaly outside the standard model.

Tuesday 17 March

SPS EXPERIMENTS COMMITTEE

Open session

at 09.00 hrs – Auditorium

1. Status of UNK : its experimental facilities and experimental programme (V. Katchanov).
2. Proposal for the installation of a second silicon array in the UA2 detector (UA2 collaboration : Bern - Cambridge - CERN - Heidelberg - Milan - Orsay (LAL) - Pavia - Pisa - Saclay; C. Gössling; SPSC 87-14/P 93 Add. 4).
3. Study of high energy nucleus-nucleus interaction in Omega; (Athens Univ. - Bari - Birmingham - CERN - Collège de France; E. Quercigh; SPSC 87-18/P 206/Add. 1).

Closed session

at 14.00 hrs – Conference Room, 6th floor, Administration Building, to be continued on Wednesday 18 March at 09.00 hrs.

Tuesday 17 March

PRESENTATION

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

The Masscomp super microcomputer

by M. HUGELSHOFER / Omni Ray AG,
Dietlikon

An introduction to the high performance computer family running up to six 68020 CPUs under RTU (Real Time UNIX) together with an independent graphics processor and floating point accelerator. The data acquisition bus may take up to 1 million analog samples per second via a bitslice processor. There will be a demonstration of software that handles data acquisition in a colour graphics environment. Specialists from Masscomp and Omni Ray will be available after the presentation for questions and discussion of topics of interest.

Tuesday 17 March

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Evidence for the decay $\tau (+) \rightarrow \pi (+), \eta, \text{antineutrino}$

by J. REPOND / Argonne National Laboratory,
Ill.

The inclusive production of eta mesons in tau lepton decay has been studied using the High Resolution Spectrometer at the PEP electron-positron facility. The data sample corresponds to an integrated luminosity of 300 pb^{-1} and the storage ring was operated at $\sqrt{s} = 29 \text{ GeV}$. The eta production appears to be only compatible with the decay $\tau (+) \rightarrow \pi (+), \eta, \text{antineutrino}$, which violates isospin and G-parity conservation. The branching ratio of $5.1 \pm 1.5\%$ explains much of the current discrepancy between the one-prong topological branching ratio and the sum of the individual one-prong modes.

* Tea and coffee will be provided at 16.00 hrs.

Wednesday 18 March

PS SEMINAR

at 11.00 hrs – PS Auditorium
bldg 26, 2-024

Experimental stress analysis in mechanical components and structures

by Aldo MONDINA / Professor for
Experimental Stress Analysis, Politecnico Milano

A presentation concerning general ideas in Experimental Stress Analysis will be given. The talk will cover experimental methods which survey structures globally and locally, the nature of photo-elasticity and its applications, and the choice of correct approach criteria to single structural problems. Experimental Stress Analysis is a matter of great importance for most engineering problems, especially when theoretical considerations are far removed from reality.

Wednesday 18 March

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Superstrings in ten dimensions from supermembranes in eleven

by M.J. DUFF / CERN

The type IIA superstring in ten dimensions is derived from the supermembrane in eleven dimensions by means of a simultaneous dimensional reduction of the world-volume and the space-time. Is this just a mathematical accident, or does it point to the membrane as a fundamental theory?

Wednesday 18 March

DD SEMINAR

at 16.00 hrs – DD Auditorium
bldg 31, 3-005

A CPU-utilization tool : the friendly spy

by D. DAVIDS / CERN-DD

For system optimisation under RMS-68K (Motorola), a special tool has been devised that allow various system statistics to be measured (e.g. CPU time spent inside routines, tasks, interrupt activations, supervisory state execution, etc.). This tool is implemented as three main modules : one to define the parameters to be measured, one to acquire the data of system activity and one to present the cumulative statistics. The talk will explain how the different modules of the tool work and will present actual figures from a single sample.

Wednesday 18 March

Please note unusual day!

EP SEMINAR

at 16.30 hrs – Auditorium

First results from TRISTAN

by K. OGAWA / KEK, Japan

No abstract has been received as yet, but the talk will report on the experimental results obtained with the VENUS and AMY detectors at TRISTAN in the first runs since this new accelerator turned on.

Monday 23 March

EP SEMINAR

at 16.30 hrs – Auditorium

What did we learn from the photon structure function? An experimental review

by Walter WAGNER / University of California, Davis

TRAINING AND EDUCATION ENSEIGNEMENT

ENSEIGNEMENT GENERAL Tél. 2844

Jeudi 19 mars

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS

ACADEMIC TRAINING Tel. 2844-3364

18, 19 and 20 March

10.30 hrs to 12.30 hrs – Auditorium

Please note unusual time

System software on high-performance workstations – Selected topics

by R. MARTY / University of Zurich

The photon structure function has been calculated from 'first principles' in QCD and quite unusual properties of F_2 have been predicted. The status of the F_2 measurements is presented, and the results are compared with theoretical predictions, with emphasis put on QCD tests. A critical review of the Λ ($M\bar{S}$) determination from the photon structure function is given. Improvements expected from SLC/LEP(I+II) are shortly discussed.

Tuesday 24 March

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Observation of oscillations of neutral B_d mesons

by Henning SCHRÖDER / DESY

Wednesday 25 March

PS SEMINAR

at 11.00 hrs – PS Auditorium
bldg 26, 2-024

Gas embedded Z-pinch

by A.E. DANGOR / Imperial College, London

Thursday 26 March

CERN COLLOQUIUM

at 16.30 hrs – Auditorium

Superstring theory – the unification of forces and particles

by M. GREEN / Queen Mary College, London

25, 26 et 27 mars

11.00 h à 12.00 h – Amphithéâtre

Corrosion des métaux et procédés électrochimiques de traitement de surfaces

par J. AUGUSTYNSKI / Université de Genève
(in French)

Il est bien connu que certains métaux thermodynamiquement actifs tels que le tantale, le titane et, dans une moindre mesure, l'aluminium résistent, dans certaines conditions, aussi bien à la corrosion que les métaux nobles. La corrosion de métaux sera présentée à travers :

- les propriétés des métaux et alliages déterminant leur résistance à l'attaque chimique;*
- les composants typiques d'un milieu agressif;*
- les principaux types de corrosion et leurs mécanismes : corrosion par piqûres, corrosion intergranulaire, corrosion par fatigue.*

Le dernier cours sera consacré à la description de deux procédés électrochimiques de traitement de surfaces : le polissage électrolytique et les dépôts galvaniques.