

SEMINARS SEMINAIRES

Monday 30 June

EP SEMINAR

at 16.30 hrs – Auditorium

**Hard scattering in photoproduction from NA 14 :
the Compton effect as quantitative tests of QCD**

by T.S. VIRDEE / Imperial College, London

Photon quark scattering has been studied using a high intensity broadband photon beam around 90 GeV. Events with outgoing large transverse momentum photons and pions were used to study QED Compton and QCD Compton subprocesses, respectively. Quantitative tests of QCD were thus performed and will be discussed. The issue of quark charges will be reviewed. Results on elastic and inelastic J/psi production studied in an exclusive way will also be given, as well as preliminary results on beauty photoproduction from a photon beam dump.

Wednesday 2 July

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Fulling, Hawking, and Unruh effects, in quantum field theory, and quantum fluctuations of electrons in storage rings

by J.S. BELL / CERN

These concepts will be presented and related.

Wednesday 2 July

PLEASE NOTE UNUSUAL DAY

EP SEMINAR

at 16.30 hrs – Auditorium

Search for gravitational and other long range forces at the Fermilab Tevatron

by A.C. MELISSINOS / University of Rochester

We used the Fermilab Tevatron to search for unknown weak long range forces between the proton beam circulating at 800 GeV and a stationary detector. The limit established for a long range nucleon-nucleon force at a distance of 23 cm is less than 3.4×10^{-40} dyne. Assuming an inverse distance-squared force law with dimensionless coupling km^2 (where m is the proton mass) between the nucleons in the detector and the proton in the beam, one finds $km^2/\hbar c$ less than 5×10^{-20} .

Friday 4 July

PLEASE NOTE UNUSUAL DAY

LEP SEMINAR

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

Status of the SPS software project

by L.R. EVANS / CERN-SPS

In 1987, work will start on the commissioning of the SPS as LEP injector. Acceleration cycles for leptons will be interleaved with the normal cycles for fixed-target physics. This will require a major rewrite of much of the applications software. In addition, the control system is to be upgraded with the addition of a Token-ring LAN and new consoles in the Main Control Room. The talk will mainly be concerned with the present status and future plans for this software project.

Monday 7 July

EP SEMINAR

at 16.30 hrs – Auditorium

**Hadroproduction of B-Bbar pairs at CERN SPS
(Experiment WA78)**

by Gilbert POULARD / CERN

A signal for B-Bbar production has been observed in tri-muon events from Pi - U interactions at 320 GeV/c by studying the correlation between missing energy and transverse momentum of the muons. The WA78 apparatus will be briefly described. Total cross-section and production mechanism will be discussed.

Thursday 10 July

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Analysis of events with missing transverse energy in the UA1 experiment

by F. PAUSS / CERN

INFORMATIONS

GENERALES

GENERAL INFORMATION

REINTEGRATION – Sécurité sociale française

La prochaine permanence de la Sécurité sociale française aura lieu

**jeudi 3 juillet de 13.30 h à 15.30 h
salle de conf. n° 2, Div. PE, bât. 5, 1^{er} étage.**

Les personnes intéressées sont priées de prendre rendez-vous en téléphonant au Secrétariat de la Section des Affaires sociales (tél. 4201).

Section des Affaires sociales
Division du Personnel