

Wednesday 17 June

DD SEMINAR

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

Coding for the Cray X-MP using CFT77. An introduction

by M. METCALF / CERN-DD

Data processing in HEP is about to move into the era of vector processing. The purpose of this talk is to introduce the field to those who have little idea of the implications, using as a model the hardware and compiler to be installed at CERN this autumn.

Thursday 18 June

PRESENTATION

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

Transputer evaluation systems

by John BRIERLY / Manager, Transputer
Products Division, Sension Ltd.

- General introduction to transputer and Occam
 - Presentation of SENSION's evaluation system TES
 - Demonstration of hardware products.
- There will be an opportunity to discuss additional points with the technical staff.*

Thursday 18 June

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Prospects for detecting dark matter particles

by B. SADOULET / Department of Physics,
Berkeley

More than 90 per cent of the mass in the Universe is not radiating electromagnetic waves. Although there is intense controversy on the nature of this dark matter, the hypothesis that it is made of (e.g. supersymmetric) particles not yet discovered is natural in particle physics. It turns out that this hypothesis can be tested nearly unambiguously. I will describe the searches being started in Berkeley, using both conventional techniques and new cryogenic detectors.

* Tea and coffee will be provided at 16.00 hrs.

Monday 22 June

EP SEMINAR

at 16.30 hrs – Auditorium

A measurement of the spin dependent structure function G_1 of the proton by EMC

by Vassili PAPAVALASSIOU / Yale

The NA2 experiment at CERN has measured the spin asymmetry in deep inelastic muon-proton scattering using a polarized beam and a polarized target. A positive asymmetry was observed in agreement with expectations from the quark-parton model and with previous results from SLAC. The measurement was extended down to the previously unexplored x-Bjorken range of 0.01 – 0.1 allowing a more precise determination of the integral of the spin dependent structure function G_1 . The obtained

value for this integral is 0.113 ± 0.012 (stat.) ± 0.025 (syst.), in disagreement with the Ellis-Jaffe sum rule. Implications are discussed.

Tuesday 23 June

CAS ACCELERATOR SEMINAR

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

E778, the SSC/Tevatron non-linear dynamics experiment

by S. PEGGS / LBL

Tuesday 23 June

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Heavy quark decays, mixing, and CP noninvariance

by Ling-Lie CHAU / Department of Physics,
University of California, Davis

Wednesday 24 June

LEP SEMINAR

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

Generation and distribution of RF power in the LEP Main Ring

by H. FRISCHHOLZ / CERN-LEP

Friday 26 June

CAS ACCELERATOR SEMINAR

at 14.30 hrs – Auditorium

The interdependence of parameters for a TeV linear collider

by R. PALMER / BNL

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16, 17, 18 and 19 June

11.00 hrs to 12.00 hrs – Auditorium

Lattice gauge theories

by R. PETRONZIO / Max-Planck Institute,
Munich and
G. MARTINELLI / CERN-TH

Lectures 1 & 2 by R. Petronzio

Lectures 3 & 4 by G. Martinelli