

Monday 10 December

EF SEMINAR

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

The high density projection chamber for the DELPHI experiment

by M. PANTER / CERN

The status of the HPC project for the DELPHI electromagnetic shower counter at LEP is described, including a new construction method for the lead converter structure. Results from test beam measurement on the transverse and longitudinal shower development are presented, together with performance figures for spatial and angular resolution.

Monday 10 December

CAS ACCELERATOR SEMINAR

at 14.30 hrs – Auditorium

Polarised beams at Saturne II

by J.-L. LACLARE / Laboratoire National
Saturne, Saclay

Four years ago, the first polarised proton beam was injected into Saturne. The full energy range of the machine was quickly covered by an extracted beam of high polarisation. Resonance-crossing is now a daily routine and

the addition of polarised deuterons from the same source has followed. Successive improvements of the source and of the transfer line to the synchrotron, have allowed us to reach 10^{10} pps for both protons and deuterons. All the external beam lines to the users have been equipped with polarimeters. Forty per cent of the beam time is dedicated to polarised particles and numerous experiments are being run. The acceleration of polarised particles has also been tested in Brookhaven and KEK.

Monday 10 December

EP SEMINAR

at 17.00 hrs – Auditorium

A search for like sign dilepton production by neutrinos in the 15 ft bubble chamber

by A.C. SCHAFFER / Columbia University

We have searched for like sign dilepton events in the μ^-e^- channel. The data were taken during our most recent wide band neutrino run in the 15 ft bubble chamber at Fermilab. As opposed to our earlier run, this run had usable data from a two-plane External Muon Identifier. These data doubled the statistics of our earlier run and consisted of about 120,000 charged current events in the total visible volume and 51,300 muon neutrino charged current events identified by the EMI in the fiducial volume.

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Science pour tous

par R. CARRERAS

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10, 11, 12 and 13 December

11.00 hrs to 12.15 hrs – Auditorium

Lasers : technology and applications

by L. WOSTE / EPFL and CNRS

- Basic principles of lasers
- Fixed frequency lasers
- Tunable coherent light sources
- Scientific laser applications
- Industrial and medical laser applications.

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GENERALES

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We are trying to establish a Special Interest Group on Expert Systems at CERN. The aim is to provide a forum to exchange experiences and information among people interested in the implementation of Expert Systems in the High Energy Physics environment. Anyone interested should write a brief description of his field of applications, his previous experience in Expert Systems or AI in general, any idea or comment about this special interest group, etc. and send it, with his name, address and possibly an Electronic Mail address, to :

F. Gagliardi / DD, Tel. 2374,

FRB\$D4 on CERN Wylbur.