

Silicon detectors at the future LHC experiments will have to withstand very high levels of radiation never before experienced in high energy physics experiments. We are therefore performing systematic studies on the change of detector performance due to radiation damage, in particular damage due to hadrons. Silicon detectors with various resistivities have been irradiated at different temperatures with 1 MeV neutrons, 24 GeV protons and 200 MeV pions. Measurements made during irradiation and up to 1 year after irradiation show that the long-term behaviour will dominate during the expected 10 years of operation at the LHC. This presentation will show the behaviour of full depletion voltage and leakage current up to 1 year after irradiation in real-time and up to more than 10 years after irradiation using special heating techniques to accelerate annealing processes. The impurities in the silicon starting material are now known to be crucial and an exciting future program of work will be presented.

Monday 22 May

PPE SEMINAR

at 16.30 hrs – Auditorium

Delphi luminosity measurement with the new luminosity monitor

by Marco PAGANONI / Milano University

An accurate measurement of the luminosity at LEP is essential for electroweak precision tests. In the DELPHI experiment, a new luminometer named STIC (Small angle Tile Calorimeter) was installed in 1994. It consists of 2 cylindrical modules of lead scintillator calorimeter, built with the "Shashlik" technique and positioned at small angles ($29 \text{ mrad} < \theta < 185 \text{ mrad}$) with respect to the beams.

The cross section of the Bhabha scattering process accepted inside STIC is known with high precision, thanks to a good control of the internal geometry of the calorimeter and to the use of an accurately machined tungsten mask for the definition of the inner edge.

The uniformity of response and the good energy resolution provide a sharp cut against machine backgrounds.

Thanks to the good STIC performance in 1994 and to the use of the mask technique, DELPHI reduced systematics at the level of 0.1 % in the luminosity measurement.

A detailed description of the STIC detector, the operational performance of the calorimeter and the luminosity measurement at the DELPHI interaction point for 1994 data taking will be given.

Mardi 23 mai

PRESENTATION TECHNIQUE

13h30-17h00 – parking PTT contre bât. 63

VERO – Electronics Road Show :

armoires électroniques et appareillage connexe

Exposition/démonstration par Vero Electronics
(CH/D/GB)

Langues : allemand, anglais, français

Renseignements : M. Diraison / FI-A / 4585

Tuesday 23 May

CERN ASTROPHYSICS SEMINAR

at 16.30 hrs – Auditorium

NOT as a supernova : how most stars die

by H. HABING / Leiden University, Netherlands

Wednesday 24 May

AC SEMINAR

at 15.30 hrs – AT Auditorium, bldg 30, 7th Floor

Colloquium in honour of G. Plass on the occasion of his retirement

15.30 hrs Highlights from the PS days – G. Munday

16.00 hrs Linac 2 – H. Haseroth

16.30 hrs LEP – E. Picasso

POUR INFORMATION / FOR INFORMATION

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1211 Geneva 4

Tel. 022 702 6273

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Wednesday 17 May

PARTICLE PHYSICS SEMINAR

at 17.00 hrs – Stückelberg Auditorium

The CPLEAR Experiment : First high precision results

by Ludwig TAUSCHER / University of Basel

The CPLEAR experiment studies symmetry principles by comparing decay rates of neutral kaons with those of neutral antikaons. The experiment will be described in detail and results will be presented. Among others the experiment provides the most accurate single measurement on ϕ^+ , the first measurement on T-violation and the most accurate test on CPT.

EDUCATION SERVICES EDUCATIFS

ENSEIGNEMENT GÉNÉRAL

Tél. 5811

Jeudi 18 mai

à 13.00 h – Amphithéâtre

Science pour tous

par Rafel CARRERAS

FORMATION : PERSPECTIVES QUINQUENNALES PLAN DE FORMATION CERN 1995

Le document "Formation : Perspectives quinquennales" et le Plan de Formation 1995, établis par la Commission Paritaire de Formation et de Perfectionnement ont été approuvés par le Directoire le 13 mars 1995. Ces documents comprennent les commentaires du Directeur général et les recommandations pour 1995. Les textes définitifs sont en anglais. Tous les chefs de groupe et chefs de section recevront un exemplaire de ces documents par l'intermédiaire du délégué à la formation de leur division.

Une version française sera prochainement disponible sur demande.

Toute autre personne intéressée peut obtenir une copie auprès :

- des secrétariats de Division, ou
- de N. Dumeaux / Services Educatifs par e-mail ou par téléphone au 8144.

Les textes seront bientôt disponibles sur un serveur. Des informations détaillées seront publiées dès que possible.

FIVE YEAR FORWARD LOOK AT TRAINING 1995 CERN TRAINING PLAN

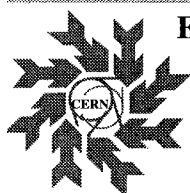
The Five Year Forward Look at Training and the 1995 CERN Training Plan, prepared by the Joint Training Board, were approved by the Directorate on 13th March 1995. The final texts are now available, including the comments by the Director-General as well as the recommendations for 1995.

The definitive texts are in English. Copies of these documents are being distributed to all group and section leaders via their Divisional Training Officer. A French translation of these two papers will shortly be available upon request.

Anyone else interested may obtain a copy from :

- his Divisional Secretariat, or
- N. Dumeaux / Education Services, by e-mail or tel. 8144.

The texts will shortly be available on a server. Further information will be published in due course.



ENSEIGNEMENT TECHNIQUE TECHNICAL TRAINING

Monique Duval ☎ 44.60
monique_duval@macmail

Informations sur les cours, dates et places disponibles sur serveur :
Information about the courses, dates and places available on server :

**PE Division - SRV1_PE (Guest) - COM - TRAINING -
CoursET.fm** (sans mot de passe - *no password*)

Technical seminars

June 12-13, 1995 (2 days)

LabVIEW advanced features

National Instruments

The advanced course builds on topics covered in the basic LabVIEW course. It should allow for taking full advantage of all LabVIEW features, including clusters, globals, locals, and attribute nodes. It also teaches techniques to reduce memory requirements, optimize execution speed, and build high performance, efficient VI's. Furthermore, some specific problems submitted by CERN users will be discussed.

The course will allow participants to:

- create block diagrams that are easier to understand
- increase the execution speed of a VI
- minimize array data space
- read and write binary data files
- use clusters to efficiently handle data
- programmatically set and read attributes of graphical user interface (GUI) controls.

Some experience in using LabVIEW is required.

If you wish to apply for this seminar, please fill in an "Application for training" form available from your Divisional Secretariat or from your Divisional Training Officer (DTO).

A financial contribution of CHF 400.- per person will be charged to the divisions.

July 3-7, 1995 (5 days)

Microsoft Visual C++ and Microsoft Foundation Class Library under Windows

Microprocess Ingénierie

This course is aimed at programmers who have already a sound knowledge of Windows and of the C language programming and would like to develop programmes and graphic interfaces with Visual C++ under Windows.

The following topics will be covered :

- Object-oriented programming concepts
- From C to C++
- Encapsulation
- Overloadings
- Classes container composition
- Simple and multiple inheritance
- Polymorphism
- MFC architecture
- Application Wizard - debugger
- Class Wizard
- Graphics Device Interface
- Bitmap buttons, timers
- Menus, accelerators
- Object linking and embedding (OLE)
- Visual Basic controls (VBX)
- Dynamic link libraries (DLL)

If you wish to apply for this seminar, please fill in an "Application for training" form available from your Divisional Secretariat or from your Divisional Training Officer (DTO).

A financial contribution of CHF 1000.- per person will be charged to the divisions.