

SEMINARS SEMINAIRES

Monday 27 April

EF SEMINAR

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

News on detectors from the SLAC Conference

by Ariella CATTAL / Kernforschungsinstitut
Karlsruhe and CERN-EF

Detector development discussed at the SLAC Conference on 'Advances in experimental methods for colliding beam physics' will be reviewed. Particular emphasis will be placed on detector ageing problems.

Monday 27 April

EP SEMINAR

at 16.30 hrs – Auditorium

A scintillating fibre detector for the UA2 upgrade

by Lucie LINSSEN / CERN

A large scintillating fibre detector for the UA2 experiment at the CERN proton-antiproton collider is under construction. It will be used for tracking and electron identification. The performance of a full scale test module containing 960 fibres of 2.1 m length and 1 mm diameter will be described.

Mardi 28 avril

PRESENTATION TECHNIQUE

de 14.00 à 16.00 h – Amphithéâtre LEP
bât. 30, 7e étage

KONTRON ELECTRONIC AG (CH), représentant Personal CAD Systems Inc. (USA), propose une conférence technique concernant un séminaire CAO de la maison P-CAD. Contenu : solution complète pour la réalisation de circuits imprimés. Ce logiciel comprend l'acquisition de schémas, la conception et la réalisation de circuits imprimés multicouches.

Langue : anglais

Renseignements : M. Diraison / FI / 4585

Tuesday 28 April

SPECIAL THEORETICAL SEMINAR

at 16.00 hrs – TH Conference Room

Please note change of day and place!

A no-go theorem in Kaluza-Klein theories

by W. THIRRING / Vienna

Mercredi 29 avril

PRESENTATION

de 09.00 à 12.00 h
près du bât. 867 (hall de montage)

Sécurité sur les machines à bois

Les camions du Centre mobile de démonstrations du travail en sécurité sur machines à bois, de l'OPPBTP (Organisme professionnel de prévention du bâtiment et des travaux publics), feront une démonstration sur le site de Prévessin. Ces démonstrations visent à faire connaître des méthodes de travail et un matériel susceptibles de prévenir les accidents et d'augmenter la qualité du travail.

Wednesday 29 April

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Theoretical aspects of intermediate vector boson physics

by Dieter SCHILDKNECHT / CERN &
University of Bielefeld

In this talk I will concentrate on vector boson ($Z_0, W^\pm, \gamma$) self-interactions and their future experimental determination, in particular at LEP 200. It will be argued that past masses of the $SU(2)_L \times U(1)_Y$ electroweak theory do not necessarily guarantee standard self-interactions. A more general scheme will be developed containing the $SU(2)_L \times U(1)_Y$ couplings as special case and thus allowing for quantitative tests of the electroweak theory. The talk will end with a few remarks on processes such as $WW \rightarrow WW$.

Wednesday 29 April and Wednesday 6 May

LEP SEMINAR

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

Selected papers and posters presented at the Washington Conference, March 1987

by LEP Division Authors

Jeudi 30 avril

PRESENTATION TECHNIQUE

de 14.00 à 16.00 h
bât. 14, 4-030

MEKTRON NV (B) présente le Bend/Flex : matériel de base pour circuits imprimés, au stade de la fabrication avant la gravure, composition similaire au FR4 (matériel standard), différence unique; on peut le plier pour obtenir des formats tridimensionnels. Cependant, en épaisseur de 0,22 mm, il devient utilisable pour des circuits flexibles (par exemple en remplacement du kapton).

Langue : français

Renseignements : M. Diraison / FI / 4585

Thursday 30 April

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

New hypothesis on the nature of colour and quark confinement

by Prof. V.N. GRIBOV / Landau Institute, Moscow

A new hypothesis on the nature of quark confinement and the structure of the infra-red behaviour in gluodynamics is proposed. It is argued that confinement occurs only because there exist light quarks.

* Tea and coffee will be provided at 16.00 hrs.

Monday 4 May

EP SEMINAR

at 16.30 hrs – Auditorium

A measurement of the average lifetime of B hadrons with the TASSO experiment

by Kai-Uwe PÖSNECKER / Universität Hamburg / DESY

The average lifetime τ_B of B hadrons produced in electron-positron annihilation has been measured with the TASSO experiment at PETRA. A new method for the determination of τ_B has been developed. It is based on all hadronic events passing a two jet cut. No explicit enrichment of events containing boson quarks is performed. A variable called the dipole moment Q is measured for each event. This quantity describes the separation of the vertices of the two jets in the detector plane perpendicular to the beam axis. These vertices are calculated from all well reconstructed tracks per jet. The dipole moment for a hadronic event with primary boson quarks is strongly correlated with the distance between the decay vertices of the two hadrons containing the boson and antiboson quark. τ_B is derived from a

comparison of the mean values $\langle Q \rangle$ from the data and from simulated events of different B-lifetimes. The method itself and recent results will be presented and compared with other measurements.

Wednesday 6 May

EP SEMINAR

at 16.30 hrs – Council Chamber

Please note change of day and place!

A silicon strip vertex detector for the Mark II experiment at the SLC

by Andreas S. SCHWARZ / SLAC

POUR INFORMATION / FOR INFORMATION

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F-74019 Annecy-le-Vieux Cédex.
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Mercredi 29 avril

LAPP SEMINAR

à 10.45 h – Amphithéâtre du LAPP, Annecy

Charm quark physics with the Mark III detector at SLAC

par David COWARD / SLAC & CERN

Pour tous renseignements, s'adresser à Guy COIGNET, LAPP.

TRAINING AND **EDUCATION** **ENSEIGNEMENT**

TECHNICAL TRAINING FORUM

Programmable Logic Device How to use them in practice

Henning LARSEN / PS

**Tuesday April 28 – 9 h.00
Room 11 (Amphi) – Bldg 593**

There exists now a large number of Programmable Logic Devices (PLD's) in a variety of configurations (PAL, PLE, FPLA, GAL, EPLD, ...)

Using them in designs can give significant savings in cost and increase the flexibility of the circuit.

The following subjects will be treated :

- Fonctionnalité of the most common PLD's
- The ABEL (Advanced Boolean Expressions design Language)
- Some characteristic designs using ABEL
- Demonstration of the design process on a PC

This FORUM is aimed at helping the participants to understand and start using a big part of these PLD's in designs. It could also be followed by people who know PLD's, but not the ABEL language.

The participants are invited afterwards to practice in making their own designs on the PC in the PS-CO groupe, to the extent it is available.