

SEMINARS

SEMINAIRES

Monday 1 April

TECHNICAL SEMINAR

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

Introduction to FASTCAMAC (Transfer 60 Mbytes/s, in CAMAC?)

Satish K. DHAWAN, Yale University

FASTCAMAC is a proposed extension to the CAMAC data acquisition standard, which substantially increases the data transfer rate of CAMAC systems while retaining compatibility with standard CAMAC. This extension provides an increase in data transfer rate of 2.5 to 20 times that of normal CAMAC (up to 60 Mbytes/s). These increased speeds are achieved while maintaining full forward and backward compatibility with the existing CAMAC standard. Normal CAMAC modules and the new FASTCAMAC modules will work together in the same CAMAC crate at their respective speeds. The proposed standard has 3 levels of increasing complexity. The first level (currently being circulated for comment) provides an increase in the maximum data transfer rate to 7.5 Mbytes/s ($2.5 \times$ normal CAMAC). This project is supported by the US Department of Energy.

At the 1995 IEEE conference 5 commercial CAMAC manufacturers supplied modified commercial modules for a demonstration of FASTCAMAC. There will be a demonstration of FASTCAMAC with some modules from the European CAMAC manufacturers.

Monday 1 April

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

The perturbative resummed series for top-quark production

by Harry CONTOPANAGOS / Argonne National Laboratory

An exposition will be presented of the calculation of the total cross-section for inclusive $t\bar{t}$ production, based on perturbative resummation of the effects of soft gluon radiation. Principal Value Resummation is used to regulate non-perturbative effects and to produce Mellin inversion to momentum space. The perturbative content of the resummation is extracted in a regulator-independent way and the perturbative regime of the approach is computed. Scale-dependence and factorization-scheme dependence of the cross-section are discussed and provide the bulk of the theoretical uncertainty. Extensive comparisons with the next-to-leading order calculation and the resummation of Laenen, Smith and Van Neerven are presented.

Monday 1 April

PPE SEMINAR

at 16h30 – Auditorium

Recent Charm Results from CLEO

Paula A. POMIANOWSKI / Virginia Polytechnic Institute

The CLEO collaboration has just finished processing 5 fb⁻¹ of data both on and off the ψ_{4S} resonance, with current

analyses using about 3 – 4 fb⁻¹. This sample of approximately 4 million $c\bar{c}$ events has provided results on a rich variety of charm topics.

New observations of excited charm baryons, and measurements of the relative and absolute branching fractions of many charm hadrons will be presented. Of particular interest to the LEP community are CLEO's new measurements of the absolute branching fractions of $D^0 \rightarrow X\psi$ and $D_s \rightarrow \phi\pi$. Also, an upper limit on a novel mechanism of l_c production from B decay is presented.

Tuesday 2 April

TECHNICAL PRESENTATION

at 10.00 hrs – CN Auditorium, bldg 31/3-004-5

High Density Fibre Optic Connector and Cable Solutions for the LHC Programme

by Philip C. LONGHURST, Europtics, Stephen M. DAVIES, BICC.

Array (MT) ferrules lend themselves very well to the high density fibre interconnection needs of the LHC programme. Europtics will present a number of enhanced packaging arrangements for the MT ferrule which will allow up to 96 Fibres (or even more in some cases) to be connected and disconnected in one operation. Packing density, latching and space requirement options will be provided together with performance and price information.

BICC will present cable options designed to meet the needs of various parts of the system. Based upon knowledge gained during previous visits this presentation will include comparisons between fibre count, cable size, bend radius, flexibility strength, fire resistance and cost.

In addition issues relating to the installation of the fibre optic cable systems will be addressed.

Organiser : S. Cannon / CN / 5036

Tuesday 2 April

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium*

Highlights of CDF Results

by Lina GALTIERI / Lawrence Berkeley National Laboratory

Recent CDF results relevant to Standard Model physics will be presented : B hadron lifetime and masses, W mass and other EWK physics measurements as well as top quark cross section and a more precise mass measurement. Search for physics beyond the Standard Model will include : The recent results on high jet ET production cross section, searches for W' , Z' leptoquarks and SUSY particles.

* Tea & coffee will be served at 16.30 hrs.

Thursday 4 April

SL SEMINAR

at 16.00 hrs – SL Auditorium, Preveessin, bldg. 864

What is a power converter in the accelerator context ?

by Frederick BORDRY / CERN

Particle accelerators require a large variety of power converters for the magnets, RF, vacuum pumps and other equipment. For this purpose, static power converters are used to convert the mains alternating current (AC) to direct current (DC). These power converters are required to provide high precision current over a wide range with

low ripple and high stability. High precision control loops must be used to meet these, often difficult, performance requirements.

The presentation will describe and classify the various power converter topologies used in the existing accelerators, the complexities and difficulties, and to describe the future trends and developments for the LHC. This presentation is intended as an overview and aimed at non-specialists.

* *Tea and coffee will be served at 15:30 hrs in front of the auditorium*

Wednesday 10 April

COMPUTING SEMINAR

at 16.00hrs – CN Auditorium, bldg 31/3-004-5

Intelligent Communication/A new system solution for High Performance Computing and Real Time Processing

A. GUNZINGER / ETH Zurich and Supercomputing Systems AG

Organiser : G.Folger / CN

Thursday 11 April

SL SEMINAR

at 16:00 – SL Auditorium, Preveessin, bldg. 864

Lead Ions in the SPS

by Gianluigi ARDUINI and Thomas BOHL (CERN/SL)

* *Tea and coffee will be served at 15:30 hrs in front of the auditorium*

Thursday 11 April

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium*

Physics at LEP and Beyond

by Jasper KIRKBY / CERN

* Tea & coffee will be served at 16.00 hrs.

POUR INFORMATION / FOR INFORMATION LAPP

Laboratoire d'Annecy de physique des particules

Chemin Bellevue

F-74000 ANNECY-LE-VIEUX

Jeudi 4 avril

SÉMINAIRE LAPP

à 14.04 hrs – AMPJI du LAPP

"La recherche directe de nouvelles particules et les mesures de précision électro-faibles effectuées au LEP à 130 et 136 GeV sont présentées".

par S. ROSIER-LEES et A. LUCOTTE

EDUCATION SERVICES EDUCATIFS

ENSEIGNEMENT GÉNÉRAL – Tél. 5811

Jeudi 18 avril

à 13.00 h – Amphithéâtre

Science pour tous

par Rafel CARRERAS

(Veuillez prendre note que "Science pour tous" n'aura pas lieu les jeudis 4 et 11 avril.)

ENSEIGNEMENT ACADEMIQUE ACADEMIC TRAINING

Françoise Benz ☎ 3127

Informations détaillées sur le WWW
Information about the lectures on WWW
<http://www.cern.ch/Training/>

3rd TERM (April 1 to June 30, 1996)

LECTURE SERIES FOR ACADEMIC TRAINING

15, 16, 17, 18 & 19 April

11h00-12h00 - Auditorium

"Medical Imaging"

by D. Townsend / University of Pittsburg, USA

6, 7, 8, 9 & 10 May

11h00-12h00 - Auditorium

"Higgs and Supersymmetric Particle Physics at LEP2"

by M. Carela / CERN-TH

20, 21, 22, 23 & 24 May

11h00-12h00 - Auditorium

"Gravitational Waves"

by B. Barish / Caltech, Pasadena, USA

17, 18, 19 & 20 June

11h00-12h00 - Auditorium

"Software Engineering : turning theory into practice"

by R. Jones / CERN-ECP

The lectures are open to all those interested, without application.

The abstract of the lectures, as well as any change to the above information (title, dates, time, place, etc.) will be published in the CERN Bulletin, the WWW and by Notices before each Term and for each series of lectures.

ON RECHERCHE

Une personne qui a "emprunté" le poster qui était affiché dans l'entrée du bâtiment 29 au rez de chaussée et représentant V. WEISSKOPF, est priée de le rapporter.

Nous remercions par avance toute personne susceptible de nous donner une information à ce sujet.

Esthel Laperrière, secrétariat du Professeur ZICHICHI
Tél. 8167