

Tuesday 2 June

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium, bld. 500*

CLIC, a 0.5-5 TeV compact $e^\pm$ linear collider

by Jean-Pierre DELAHAYE / CERN-PS

The status of the Compact Linear Collider (CLIC) study is presented. It is optimised for $e^\pm$ collisions at high energy (3 TeV c.m.) and luminosity ($10^{35} \text{ cm}^{-2} \text{ s}^{-1}$) to meet post-LHC physics requirements. Beam acceleration using high frequency (30 GHz) normal-conducting structures operating at high accelerating fields (150 MV/m) significantly reduces the length and, in consequence the cost of the linac. Based on new parameters, the beam stability is similar to lower frequency designs in spite of the strong wake-field dependency on frequency. A novel, cost effective and very efficient scheme for RF power production by the so-called "Two Beam Acceleration (TBA)" method is described. Results from the CLIC Test Facility (CTF) assessing the feasibility of the scheme are reported.

* Tea & coffee will be served at 16.00 hrs

Organiser : Jasper KIRKBY / EP Division

POUR INFORMATION / FOR INFORMATION

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Wednesday 27 May

PARTICLE PHYSICS SEMINAR

at 17.00 hrs - Stückelberg Auditorium

Nuclear Science at TRIUMF – The Evolution of Subatomic Physics in Canada

by L.G. GREENIAUS / University of Alberta & Université de Genève

Conceived as an intermediate-energy nuclear and particle physics laboratory, TRIUMF began operation in the mid-1970's using high-intensity proton beams with energies up to 520 MeV. During the next 20 years an interesting and varied physics program developed at the laboratory. Now TRIUMF has evolved into the major infrastructure facility for all of Canadian subatomic physics and the experimental facilities are undergoing a significant renewal. After a brief historical overview, the present experimental program at TRIUMF will be described. Future plans centred around the ISAC facility for the production of accelerated radioactive beams, contributions to off-site experiments and the active applied program will be discussed.

EDUCATION SERVICES EDUCATIFS



Information sur les cours, dates et places disponibles sur WWW:
Information about the courses, dates and places available on WWW :
<http://www.cern.ch/Training/>

ENSEIGNEMENT ACADEMIQUE ACADEMIC TRAINING

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LECTURE SERIES

25, 26, 27, 28 & 29 May

25, 27, 28 & 29 May : 11.00 to 12.00 hrs – Auditorium

26 May : 11.00 to 12.00 hrs – Council Chamber

Bayesian reasoning in HEP – principles and applications

by G. D'AGOSTINI / Univ. di Roma, I

Bayesian statistics associate the idea of probability – the measure of the degree of belief that an event will occur – to the lack of knowledge, as it is commonly perceived intuitively. The Bayes' theorem becomes then the basic tool to evaluate the probability, combining (a priori) judgement and experimental information.

This approach allows to treat in a logically consistent way all kinds of uncertainty. The lessons will deal with uncertainty arising from measurements: inference on the value of a physics quantity from experimental observations (examining in depth the cases of observations following Gaussian, binomial and Poisson distributions); combinations of results; upper/lower limits and their combination; hypothesis tests versus probabilities of the hypotheses; systematic errors and the correlations they induce; simplified methods for routine applications (by-passing the explicit use of Bayes' theorem); type A and type B uncertainties (according to BIPM/ISO); recovery of many standard methods, but keeping the transparency of the Bayesian reasoning; multidimensional unfolding.

PLACES DISPONIBLES PLACES AVAILABLE

Plusieurs cours prévus peuvent encore accueillir quelques participants. Vous les trouverez dans la liste ci-dessous.

Some places are still available in forthcoming courses. These courses are indicated underneath.

Introduction à Eudora Mail – 1/2 journée	25.5.98
<i>An Overview of the JAVA programming language – 1 day</i>	2.6.98
Introduction to CORBA – 3 days	8 - 10.6.98
Nouveautés d'EXCEL – 3 demi-journées	24 - 26.6.98
Nouveautés de FileMaker – 3 demi-journées	7 - 9.7.98

Si vous désirez participer à l'un de ces cours, inscrivez-vous électroniquement en direct depuis les pages de description des cours dans le Web que vous trouvez à l'adresse : <http://www.cern.ch/Training/>, ou remplissez une "demande de formation" disponible auprès du Secrétariat de votre Division ou de votre DTO (Délégué divisionnaire à la formation). Les places seront attribuées dans l'ordre de réception des inscriptions.

If you wish to participate to one of these courses, please apply electronically directly from the course description pages that can be found on the Web at : <http://www.cern.ch/Training/> or fill in an "application for training" form available from your Divisional Secretariat or from your DTO (Divisional Training Officer). Applications will be accepted in the order of their receipt.

INFORMATIONS GENERALES GENERAL INFORMATION

AVIS AUX AMATEURS!

On recherche une personne ayant de bonnes connaissances en aquariophilie d'eau de mer, éventuellement disposée à apporter son aide à l'entretien de l'aquarium situé dans le hall du bâtiment principal.

Toute personne intéressée est priée de contacter

Georges CLAUDE, tél. 76365
e-mail Georges.Claude@cern.ch

ou

Christiane LEFEVRE, tél. 73830
e-mail Christiane.Lefevre@cern.ch

DAMAGE MECHANICS

Didier MARQUIS / CERN & Ecole Normale Supérieure
de Cachan

The basic notions and concepts of Continuum Damage Mechanics (CDM) are presented. The objective of CDM is to take into account in mechanical analysis of structures the influence of progressive degradation due to different loading (creep, fatigue, plasticity, etc.). CDM allows to determine for a structure :

- the residual strength
- the conditions for crack initiation
- the residual stiffness
- the life duration

The programme of the sessions will be devoted to :

28.5.1998 : Introduction of damage in a constitutive law. Evolution laws for brittle, creep, ductile, fatigue damages.

4.6.1998 : Structural analysis with damage mechanics. Statistical approach to rupture.

All sessions will take place as follows :

from 11.00 to 12.00 in room 11, barrack 593

These sessions are free of charge and no prior application is needed.

