

Pour plus d'informations, veuillez consulter le site Web
(www.goodfellow.com)

Langues : français, anglais, allemand
Information : L. Abel / FI-A / 79561

Wednesday 20 May

PS SEMINAR

at 11.00 hrs – PS Auditorium, bld. 6/2-024

Tomography of longitudinal phase space

by S. HANCOCK / CERN-PS

Tomography is now a very broad topic with a wealth of algorithms for the reconstruction of both qualitative and quantitative images. One of the simplest algorithms has been adapted to take into account the non-linearity of large-amplitude synchrotron motion. The longitudinal phase space density can thus be accurately reconstructed from one-dimensional bunch profile data. The basis of the method will be explained and a variety of novel measurements showing the bunch dynamics will be presented in the form of computer animations.

Organiser: Bruno Autin

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 TECHNIQUE TECHNICAL TRAINING

Monique Duval ☎ 74460
monique.duval@cern.ch

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.

Programmation en JAVA niveau 2 - 3 jours	18-20.5.98
Introduction à Eudora Mail - 1/2 journée	25.5.98
FileMaker Pro - 4 jours	26 - 29.5.98
An Overview of the JAVA programming language - 1 day	2.6.98
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.

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 one 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 :

14.5.1998 : Evaluation and measurements of damage. Scalar and tensorial damage variables.

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.

LECTURE SERIES

11, 12, 13, 14 & 15 May

11.00 to 12.00 hrs – Auditorium, bld. 500

**Advances in high speed communications
on and off the Internet**

by B. CARPENTER / IBM, Winchester, UK

The lectures will review some of the basics of data communication and some of the underlying constraints on effective high speed transmission. With this background, several current developments in practical high speed data transmission will be reviewed, including Gigabit Ethernet. Real-world limits on achieved throughput on all scales up to that of the world-wide Internet will be discussed, along with new techniques being developed to cope with massive traffic scaling on the Internet. Finally, we will look at what may lie ahead in all-optical data networks.

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.

MANAGEMENT & COMMUNICATION
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Nathalie Dumeaux ☎ 78144
nathalie.dumeaux@cern.ch

PROGRAMME DE FORMATION EN MANAGEMENT
TRAINING PROGRAMME IN MANAGEMENT
Gestion de projet / Project Management

Places disponibles / Places available

Dates	Séminaires / Seminars	Lang.	Durée Duration	Disponibilité Availability
9, 10, 11 juin	Gérer un projet / Project Management	E	3 jours	2 places
23, 24, 25 juin	Planification et Gestion des coûts Project Scheduling & Costing	E	3 jours	4 places
6, 7, 8 octobre	Gérer un projet / Project Management	E	3 jours	7 places
8, 9, 10 décembre	Planification et Gestion des coûts Project Scheduling & Costing	E	3 jours	10 places