

the largest programs ever published in full length, are prominent LP examples. It is argued how LP methods can be used (and misused) in individual or collaborative code development, including an overview of available tools, their advantages and disadvantages. The HTML frontends now provided by some LP processors allow you to effortlessly serve code on the World-Wide Web. For more, see the author's "Literate Programming Library" at URL <http://info.desy.de/user/projects/LitProg.html>
Organiser : D. Kemp / CN

Monday 31 October

SPECIAL SEMINAR

at 14.00 hrs – TH Conference Room
The problems of measurement and the transition from quantum to classical mechanics
by Yuri ORLOV

The main quantum phenomena – unpredictability of the result of a single measurement, impossibility of simultaneously measuring some observables, and interference of probabilities – are explained in terms of symmetries and logic. The special role of a hidden symmetry in the logic of propositions is demonstrated. The source of wave function reduction in the course of measurement is analyzed.

Monday 31 October

PPE SEMINAR

at 16.30 hrs – Auditorium
Search for a new light gauge boson in decays of π^0 , η and η'
by Farid OULD-SAADA / Zürich University

We have searched for new light gauge bosons produced in π^0 , η and η' decays by studying the kinematically well-constrained reactions proton-antiproton $\rightarrow \pi^0 \pi^0 P$, where $P \equiv \pi^0, \eta, \eta'$ decays through the emission of a single photon recoiling against a missing state X (where X is a long-lived weakly interacting particle or $X \rightarrow$ neutrino-antineutrino). No signal has been observed and branching ratio upper limits (90% C.L.) of 6×10^{-5} have been obtained for masses of the gauge boson lying between about 65 MeV and 125 MeV (π^0 decay), 6×10^{-5} , for X masses between about 200 MeV and 525 MeV (η decay), and 4×10^{-5} , for X masses between about 50 MeV and 925 MeV (η' decay). The π^0 -decay limit represents a factor of 4 to 8 improvement when compared to the existing limit, whereas the η and η' decay limits have been measured for the first time, thereby extending the m_X range from 130 MeV up to 925 MeV.

Tuesday 1 November

TECHNICAL PRESENTATION

at 10.00 hrs – CN Auditorium, bldg 31/3-005
Migration to AIX V4.1 at CERN
by Markus BAERTSCHI, / Tim Bell, IBM Switzerland
Organiser : S. Cannon / CN / 5036

Mercredi 2 novembre

PRESENTATION TECHNIQUE

09.00 -17.00 h – bât. 65, Service Feu
NILFISK, l'aspirateur qui permet d'obtenir la sécurité et la propreté
par Nilfisk SA (DK/CH)
Langues : allemand, anglais, français.
Renseignements : M. Diraison / FI-A / 4585

Wednesday 2 November

CERN COMPUTING COLLOQUIUM

at 16.00 hrs – Auditorium
How do biological computers work?
by Prof. Daniel BERTRAND / Medical Faculty, University of Geneva

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**LECTURE SERIES FOR
POSTGRADUATE STUDENTS**

24, 25, 26, 27 & 28 October
11.00-12.00 hrs – Auditorium
Quantum chromo dynamics
by G. MARTINELLI / University of Roma, Italy & CERN-TH

1. Hadrons as bound states of quarks and gluons
2. Quark models, confinement and asymptotic freedom
3. The parton model; Deep Inelastic Scattering (DIS) processes
4. The parton model and QCD
5. Phenomenology of the parton model; muon and neutrino DIS, structure functions and parton distributions
6. W and Z production at Colliders
7. Weak decays and strong interactions
8. Heavy flavours effective theories and QCD
9. Non-perturbative QCD

31 October, 2 & 3 November

11.00-12.00hrs – Auditorium
Beyond the standard model
by S. DIMOPOULOS / CERN-TH

**ENSEIGNEMENT GÉNÉRAL
Tél. 5811**

Jeudi 27 octobre
à 13.00 h – Amphithéâtre
Science pour tous
par Rafel CARRERAS

MANAGEMENT & COMMUNICATION
SEMINAIRES PREVUS DE NOVEMBRE 1994 A FEVRIER 1995
SEMINARS FORESEEN FROM NOVEMBER 1994 TO FEBRUARY 1995
Madeleine Pincott ☎ 3674 am - madeleine_pincott@macmail

Dates	Séminaires/Seminars	Lang.	Durée Duration	Disponibilité Availability
8, 9 novembre	Communiquer efficacement, 2e partie	F	2 jours	complet
15, 16 novembre	<i>Information for supervisors /</i> Information pour superviseurs	B	2 jours	complet
16, 17 November		E	2 days	5 places
22, 23 novembre	Les outils de communication dans une équipe	F	2 jours	1 place
22, 23 novembre	Techniques d'exposé et de présentation	F	2 jours	1 place
28 Nov. pm, 1 Dec. am	<i>Making presentations, follow-up - Using visual Aids</i>	E	1 day	2 places
29, 30 November	<i>Making presentations</i>	E	2 days	2 places
5, 6 December	<i>Negotiating Skills</i>	E	2 days	8 places
5, 6 December	<i>Performance Appraisal Workshop - (MOAS)</i>	E	2 days	full
7, 8 December	<i>Effective, rapid reading</i>	E	2 days	full
8, 9 December	<i>Running meetings</i>	E	2 days	5 places
12, 13 décembre	Formation à l'appréciation des performances (MOAS)	F	2 jours	complet
14, 15 December	<i>Communicating effectively, part 2</i>	E	2 days	6 places
15, 16 décembre	Communiquer efficacement, 1e partie	F	2 jours	complet
10, 11 janvier	Pratique de la supervision, base	F	2 jours	7 places
10, 11 janvier	Formation à l'appréciation des performances (MOAS)	F	2 jours	5 places
12, 13 janvier	Pratique de la supervision, suivi	F	2 jours	5 places
16, 17 janvier	Rédiger un document de travail administratif	F	2 jours	5 places
17, 18 January	<i>Supervision in practice, basic</i>	E	2 days	3 places
19, 20 janvier	Communiquer efficacement, 2e partie	F	2 jours	1 place
19, 20 janvier	Animer une réunion de travail	F	2 jours	5 places
31 January, 1 February	<i>Performance Appraisal Workshop - (MOAS)</i>	E	2 days	6 places
2, 3 February	<i>Supervision in practice, follow-up</i>	E	2 days	full
Si vous désirez vous inscrire pour un de ces séminaires prenez contact avec votre responsable hiérarchique et votre DTO.		If you would like to enrol in one of the following seminars, please contact your supervisor and your DTO.		

FORESIGHT COURSE AT CERN
14-15 NOVEMBER 1994
from 09.00 to 17.00 hrs
building 513, 1st floor, room 1-021

Overview

Foresight is a systems-engineering tool from Nu Thena Systems, Inc. (McLean, VA, USA). It is used to model and to simulate both the functional behavior as well as the architectural performance of time-dependent systems at the architectural (system) level. This allows one to study the dynamic behavior of systems, to perform what-if-analysis, to demonstrate the behavior of the system model to managers/customers at reviews (walk-through), and to use the model as a reference for system implementation (executable system specifications). With Foresight, engineers can ensure the functional correctness of system requirements and designs; then, using resource library elements to specify architectural components (cpu's, buses, memories) and allocating functional processes to these resources, designers can optimize the system architecture. Foresight is a multi-disciplinary tool with built-in interfaces to support configuration management, external function calls, linking of other simulations into Foresight, and design documentation.

It has been successfully used at CERN, in areas as diverse as frontend data-acquisition and cryogenics.

Foresight runs on Unix workstations and floating licenses are available at CERN.

Course Objective

The aim of the 2-day course is to train design engineers and project managers to apply Foresight for systems-engineering tasks effectively and efficiently.

The course will start with an overview of the foundations of Foresight and systems modeling, and then focus on how to use Foresight, by building and exercising a system model. Some 25-30% of the course time will be for lecturing, and the rest for practical work ("hands-on experience").

The course will be given by L. Pregernig (CERN/CN Division).

Prerequisites

Basic knowledge in using Unix workstations is required.

Enrolement, Information

If you wish to enrol in this course, or if you need further information, contact L. Pregernig by e-mail (lfp@cernvm.cern.ch), fax (767 7155), or phone (767 2666).

No fee will be charged for the course. Due to the emphasis on practical work, the number of participants is limited to 12, so get your registration in early.