

SEMINARS SEMINAIRES

Monday 14 September

PRESENTATION

at 10.00 – CN Auditorium
bldg 31/3-005

How to use CAPS on SUN and PCs at CERN

by Carolle SULLIVAN / Cahners, USA

CAPS (Computer Aided Product Selection) is an engineering tool that helps you locate, compare and select integrated circuits and semiconductors. Updated monthly, the CD-ROM based CAPS system gives you fast, easy, query driven access to technical specifications, data sheets and application notes for over 650000 components manufactured by more than 600 companies worldwide. CAPS is installed at CERN and can be accessed through ethernet by PCs and SUN workstations.

10.00-12.00 How to use CAPS on SUN or PCs with X-Vision

14.00-15.00 How to use CAPS on PCs

15.00 Questions & Answers.

Information : P. Baehler / 5016 / 13-5508
or B. Flockhart / 7562 / 13-4065

Monday 14 September

DETECTOR SEMINAR

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

New results with visible light photon counters and applications to experiments

by Muzaffer ATAC / FNAL & University of California, Los Angeles

Tuesday 15 September

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Masses of the Higgs Boson and the Top Quark in the Standard Model

by T.T. WU / University of Harvard & CERN

The Standard Model has been well verified by the LEP data. Only the Higgs boson and the top quark have not been observed experimentally. Using an idea proposed by Stückelberg of the University of Geneva in 1939, these two masses have been calculated theoretically within the Standard Model. The results are $m_H^2 = 9 m_Z^2 - 6 m_W^2$ and $m_t^2 = (5/2) m_Z^2 - m_W^2$ (neglecting mass of b) which give $m_H = 190$ GeV and $m_t = 120$ GeV. This top mass is within the general range favored by phenomenology. The Higgs boson of this mass has a width of 1 GeV and a branching ratio of 22% into ZZ , and is easy to discover at LHC and SSC. These results will be compared with some of the earlier predictions.

*Tea & coffee will be served at 16.00 hrs

Wednesday 16 September

PRESENTATION

at 10.00 hrs – CN Auditorium
bldg 31/3-005

DEC OSF/1 with Alpha and R4000 – The Future of UNIX at Digital

by Henry R. TUMBLIN / Digital's Alpha Open Systems Group

This presentation will give an overview of Digital's work on the Ultrix and OSF/1 operating systems.

- Digital's ULTRIX and OSF/1 strategy
- experiences with development of the 64-bit Alpha version of OSF/1 software. This is given from a historical perspective and discusses the tools and methodologies involved
- how to migrate applications from 32-bit to 64-bit Alpha systems, with emphasis on OSF/1.

Henry Tumblin was part of the original Alpha architecture team, and is now engineering project leader for workstation software on DEC OSF/1. Information: Tor Bothner, tel 7095, beep 5555, mail bothner@cernvax.

Wednesday 16 September

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

New techniques for computing gauge amplitudes

by Lance DIXON / SLAC

I describe a method for efficiently calculating loop amplitudes in non-Abelian gauge theories such as QCD. The method, originally developed by Bern and Kosower, is based on string theory. Recent progress in extending the applicability of the method, as well as a few explicit computations, will also be presented.

Wednesday 16 September

COMPUTING SEMINAR

at 16.00 hrs – CN Auditorium
bldg 31/3-005

Running HEP Simulation Programs on Transputer Based Parallel Computers

by Jorge SILVA / Collège de France, Paris

We report our experience in running GEANT simulation programs on transputer based parallel computers. The most effective and trivial event parallelisation was worked out. We were able to implement simulations for a number of very different applications such as: Accordeo detector, LHC detector, Nuclear Medicine collimators, PPC warm liquid detector, and others. These programs ran with efficiency close to 100%. Further development was done in order to work out inside event parallelisation, which produces less processor effectivity, but drastically reduces single event computing time. Two methods are proposed: geometrical and parallelisation based on track scattering. This work shows that transputer based parallel computers can become a very useful platform for simulation in HEP.

Monday 21 September

AC SEMINAR

at 11.00 hrs – AT Auditorium
bldg 30, 7th floor

Garmisch highlights on linear colliders

by J.P. DELAHAYE/CERN-PS, G. GUIGNARD/
CERN-SL & L. THORND AHL/CERN-SL

Monday 21 September*

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium**

Kaon Physics at Fermilab

by B. WINSTEIN / University of Chicago

A new facility for high precision, high sensitivity studies of Kaon decays – both rare and CP violating – is underway at Fermilab. The new beam and detector, motivated to improve upon E731, will be described. Some prototype results and our progress will be presented.

* Please note unusual day

** Coffee notice as usual

Friday 25 September

SPECIAL SEMINAR

IN HONOUR OF EMILIO PICASSO

at 15.00 hrs – Auditorium

The following speakers will be contributing to the Seminar :

- 1) G minus TWO plus EMILIO
by F. Farley
- 2) CERN and Picasso
by J. Steinberger
- 3) Laboratorio
Emilio
Picasso
and its Project Leader
by G.-A. Voss
- 4) The futuristic period of Emilio Picasso
by L. Radicati di Brozolo

A reception will take place at the end of the seminar (about 17.00 hrs) in the lobby of the Council Chamber (Salle des Pas Perdus).

EDUCATION SERVICES EDUCATIFS

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EDUCATION SERVICES

Cours de langues

Language courses

Secrétariat (après-midi seulement) : 3127

Secrétariat (afternoons only) : 3127

ANGLAIS-FRANÇAIS

Les inscriptions à ces cours sont ouvertes dès maintenant pour le deuxième trimestre 92-93 (du 12 octobre au 18 décembre).

Les formulaires d'inscription sont à votre disposition au Secrétariat des Cours de Langues (bât. 54/R-001), au Bureau des Utilisateurs (bât. 60/R-020), et à votre secrétariat de division.

Ces cours s'adressent à toute personne travaillant au CERN ainsi qu'aux conjoints.

Pour toute information, veuillez contacter Mme Benz ou Mme Fontbonne, tél. 3127 (l'après-midi seulement) ou M. Liptow, tél. 2957.

ENGLISH-FRENCH

Registration for second term's language courses 92-93 : from 12 October to 18 December.

Application forms are available at the Language Courses Secretariat (bldg 54/R-001), at the Users Office (bldg 60/R-020) and at your Divisional Secretariat.

These courses are open to all persons working on the CERN site and to their spouses.

For all information, please contact Mrs Benz or Mrs Fontbonne, tel. 3127 (afternoons only) or Mr Liptow, tel. 2957.