

SEMINARS

SEMINAIRES

Monday 30 September

TECHNICAL PRESENTATION

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

Human Resources Toolkit (HRT)

by Mats MOLLER & James PURVIS / CERN-AS-SU

The Human Resources Toolkit (HRT) intended to be used for accessing CERN Personnel data is currently under development in AS Division. HRT will help the divisions carry out their Human Resource management, planning and follow-up. It will have extensive report generation capabilities and an easy-to-use graphical user interface.

An overview of the project followed by a demonstration of first prototype will be given.

Monday 30 September

DETECTOR SEMINAR

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

Josephson Pixel Detector: A proposal for a new family of ultra fast radiation-hard position detectors

by Vittorio PALMIERI / University of Bern

Josephson Tunnel Junctions are in principle capable of very fast position detection due to the ultra-fast switching from the zero to the gap voltage state. This feature together with the high radiation hardness of the materials constituting the junctions (Nb and Al) and the possibility of direct interfacing to ultra-fast superconductive logic families make them interesting candidates for a new type of position detector. The detection mechanism and a possible new approach for realising a real detector complete with integrated read-out electronics will be discussed.

Mardi 1 octobre

PRÉSENTATION TECHNIQUE

09.00-17.00 h - Camion d'assistance technique, parking bât. 252

Outillage

par FACOM SA

FACOM, leader Européen de l'outillage sera au CERN avec son camion d'assistance technique pour vous présenter ses dernier nouveautés

Langues : français, anglais, allemand

Information : L. Abel FI-A/79561

Tuesday 1 October

WEB DOCUMENT ENGINEERING

09.00 to 10.00 hrs - Auditorium

by Bebo WHITE / Stanford University

This talk will discuss a methodical approach to the design of Web documents which are useable and maintainable. These methodologies incorporate elements of hypertext document design, human-computer interface design, and

software engineering. The intended audience are persons who are responsible for the design and maintenance of large and/or complex Web-based documents. It will assume a good working knowledge of WWW and HTML.

Organised by R. Cailliau/ECP

Tuesday 1 October

TECHNICAL PRESENTATION

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

Memory Channel

by Richard KAUFMANN / Digital Equipment Corp.

Memory Channel is a memory based networking approach that bridges the gap between conventional networks and shared memory in terms of throughput, latency and CPU overhead, providing clusters of computers a 100- to 1000-factor of improvement over standard networking.

Organiser : S. Cannon / CN / 75036

Tuesday 1 October

TECHNICAL PRESENTATION

11.00 to 12.30 hrs - bldg. 13/3-003

Engineering safety, and risks analysis, etc.

by I. Pacer / EQE International Consultants

Presentation by EQE International Consultants on engineering, safety, risk analysis, electronic control, seismic and geotechnical studies. Brochures will be available.

Language : English,

Information : L. Abel / ¥1-A / 79561

Wednesday 2 October

THEORETICAL SEMINAR

at 14.00 hrs - TH Conference Room

Chiral gauge theories in the overlap formalism

by Rajamani NARAYANAN / University of Washington, Seattle

I will introduce the problem of the non-perturbative definition of the chiral determinant that arises in chiral gauge theories. I will explain a crucial point in the definition of the chiral determinant that was missed by previous attempts to formulate chiral fermions on the lattice. I will then show that a proper definition of the chiral determinant is an overlap of two many-body ground states. Perturbative anomalies and zeroes in instanton backgrounds are correctly reproduced and the close connection between these two phenomena will be transparent in the overlap formalism. I will conclude with a summary of what has been done using the overlap formalism and show that it is quite a viable procedure for dealing with chiral gauge theories on the lattice.

Thursday 3 October

HTML AND THE ART OF AUTHORIZING FOR WWW

09.00 to 17.30 hrs - Council Chamber

by Bebo WHITE / Stanford University

This course is intended to provide a comprehensive overview of WWW authoring concepts. The morning session will contain an introduction to the WWW page/document structure, page markup and HTML concepts, and a very

fast overview of the principle HTML tagsets. Online examples will be given. The afternoon session will concentrate on the design of "good," useable, and maintainable documents. (It will be an expansion of the one-hour talk described above).

The morning talk will assume that the audience has little or no knowledge of HTML, but has used WWW. This session will concentrate on the fundamentals of hypertext documents and hypertext markup as made possible by HTML. It attempts to provide an overview of the HTML authoring process beyond simply knowing the HTML tagset. Examples will illustrate the use of tags in the building of production Web pages.

The afternoon session could be attended independently by persons with a working knowledge of HTML. This session will concentrate on the design of "good" Web documents. It will illustrate how software engineering design concepts can be applied to Web authoring to create pages which are usable and maintainable. It will also describe how methods developed through human-computer interface research, online documentation authoring, and pre-WWW hypertext systems can be applied to Web document development. People wishing to attend must register by e-mail (subject=WWW Authoring) to perrelle@www.cern.ch before September 30.

People wishing to attend may also purchase the book "HTML and the Art of Authoring for WWW" by Bebo White, at a special discount price. You must commit for this purchase before the seminar, by e-mail to perrelle@www.cern.ch with the text: I will purchase copies of the book "HTML and the Art of Authoring for WWW".

Organised by R. Cailliau/ECP

Jeudi 3 octobre

UMTF COMPUTING TUTORIAL

10.00 -12.00 hrs - CN Auditorium

NICE + Windows/95 = NICE/95 (en français)

Qu'est ce que c'est **NICE** ?

par Alberto PACE

Vous voulez savoir ce que Windows/95 peut faire pour vous sur votre PC ? Venez voir une démonstration du nouvel environnement 32bit pour tous les ordinateurs personnels (PC) du CERN, basé sur Windows 95. Cette présentation ne demande aucune connaissance préalable ni du PC ni de NICE et sera concentrée sur les services offerts aux utilisateurs des PCs au CERN. On essayera de vous démontrer comment NICE/95 facilitera votre travail pour devenir le point d'accès universel à toutes les activités et applications du laboratoire.

This will be given in French and is the same as the version given in English on 2 May and in French on 7 May.

Jeudi 3 octobre

de 10.00 à 17.00 h - hall d'entrée du bâtiment principal

Exposition des Presses polytechniques et universitaires romandes

Exposition d'ouvrages scientifiques des Presses polytechniques et universitaires romandes.

Thursday 3 October

SL SEMINAR

at 16.00 hrs - SL Auditorium, Prévessin, bldg. 864

Accelerator Physics Issues in the Compact Linear Collider

by Gilbert GUIGNARD / CERN

StudiesThe CLIC studies explore one possible approach for a linear collider design, mainly characterized by high RF frequency, high accelerating gradient and a two-beam scheme as a power source. The performance requested for such a lepton collider represents an improvement by three orders of magnitude in luminosity and an increase by a factor ten in beam energy, with respect to the only linear collider presently operational, the SLC at SLAC. The main accelerator physics issues relevant to the studies are reviewed, with emphasis on the main challenges. The optimization of the single-bunch parameters and transverse emittance is first discussed while the multibunch mode conceived to boost the luminosity-to-power ratio is considered next. Animated graphics obtained by numerical simulations of the beam instability will provide a direct illustration of the expected obstacles and the proposed solutions.

** Coffee and tea will be served at 15,30 hrs in front of the auditorium*

Friday 4 October

TECHNICAL PRESENTATION

at 10.00 hrs - PS Auditorium, bldg 6/2-024

**Software Tools for Maths and Data Analysis
Current Products and Future Directions**

by Karen WALKER / Mathsoft (Mathcad)

This presentation reviews the current range of MathSoft products and discusses future strategy and direction. It will include demonstrations of Mathcad PLUS 6.0, S-PLUS 3.3 and Axum 5.0. Mathcad is the world's leading product for engineering calculations. The demonstration will focus on advanced features in the latest version. S-PLUS is an object oriented statistics and data analysis tool. Axum is a technical charting package for producing publication-quality technical charts.

Organiser: C. Eck/CN/74260

Friday 4 October

TECHNICAL PRESENTATION

at 10.30 hrs - CN Auditorium, bldg 31/3-004-5

CompactPCI

by Jim MEDEIROS / Ziatec Corporation

Jim Medeiros of Ziatec Corporation, one of the originators of CompactPCI, will give an overview of the progress of the cPCI standard and present Ziatec's products.

Technical contact ; Chris Parkman /3963

Vendredi 4 octobre

PRÉSENTATION TECHNIQUE

13.30 à 16.30 h - Salle de conférence bât. 13/3-003

Vannes et clapets, petit et grand diamètres, pour des applications en nucléaire cryogénie

par S. BROLIN / Bouvier Darling

Présentation de différents robinetterie industrielle à travers 2 vannes de démonstration montrant l'originalité de système de sectionnement au moyen de différents supports tels que vidéo, transparents et brochures:

Langues : anglais, français

Information : L.Abel / FI-A /79561

Friday 4 October

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs - TH Conference Room

Mass hierarchies and the anomalous U(1)?

by Pierre RAMOND / University of Gainesville,
Florida

We present models where the mass hierarchies and mixing angles of quarks and leptons are linked to the U(1) symmetry that is a feature of supersymmetry compactifications, with its anomalies cancelled by the Green-Schwarz mechanism. The approach is in the language of effective low-energy theories.

Friday 4 October

COMPUTING SEMINAR

at 14.30 hrs - CN Auditorium, bldg 31/3-004-5

SPICE - What does it mean to you?

by Jon FAIRCLOUGH / Group Quality Assurance
Manager Cray Systems Ltd

The Software Process Improvement Capability dEtermination (SPICE) method is the name given to a standard for software process assessment being developed by ISO/IEC/JTC1/SC7/WG10.

SPICE version 1 was published last year. Version 2 will be published later this year.

Currently organisations seeking to improve the way they develop software either developed in-house standards, or imported standards, such as PSS-05. Developing in-house standards takes time and effort, whereas imported standards need to be integrated with current working practices. Compliance with standards is checked by auditing. Auditors normally aim to find non-conformances to standards and plans. While this is an important activity, auditing is not a very efficient way of defining improvements in the standards, plans and working practices. If an organisation is aiming to continuously improve, adopting standards and complying with them is not enough.

Software process assessment evaluates work practices against a comprehensive process model that covers all areas of software acquisition, supply, development, operation and maintenance. The model defines just about every practice an organisation could possibly do! The assessment, which concentrates on interviewing project staff and not examining documents and records, aims to assign a capability level to each process and define improvements to that process.

This presentation will explain what the Software Process Improvement Capability dEtermination (SPICE) method is and discuss how it can be applied in the local context.

The presenter is one of the authors of PSS-05. He is also the UK expert on the ISO working group for ISO 9000-3. He is a trained software process assessor and auditor. He has delivered several courses on PSS-05 to ESA, CERN, GSi, JRC, DLR, INPE, DRA and other organisations.

Jon Fairelough will also give us an update on the status of the ES A Software Engineering Standards and inform us on ESA's decision to transfer the PSS system to the new set of standards prepared by the European Co-operation for Space Standardization (ECSS)".

Organisers: A. Daneels/ECP-CO/72581

C. Nebout/ECP-CO/77160

Tuesday 8 October

TECHNICAL PRESENTATION

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

Motorola high speed data transmission components

by Andreas GUENTHER / Motorola Munich

Information: R. McLaren/ECP 74907

Organiser : S. Cannon / CN / 75036

Tuesday 8 October

JOINT PARTICLE PHYSICS SEMINAR AND LEPC OPEN SESSION

at 14.00 hrs *- Auditorium**

Report on the LEP machine

14.00-14.30 Status of LEP (Daniel Brandt)

Reports from the LEP experiments on LEP161 results

14.30-15.00 DELPHI (Wim de Boer)

15.00-15.30 ALEPH (Ramon Miquel)

15.30-16.00 Coffee break

16.00-16.30 L3 (Martin Pohl)

16.30-17.00 OPAL (Nigel Watson)

** Please note unusual time*

*** Tea & coffee will be served at 15.30 hrs*

Thursday 10 October

CERN COLLOQUIUM

at 16.30 hrs - Auditorium

From Light to Consciousness : Journey to the End of Science or Fin de Siècle Malaise

by Leon COOPER / Director of Institute for Brain and Neural Systems, Brown University, Providence, U.S.A.; Nobel Prize for Physics in 1972.

Friday 11 October*

LHC SEMINAR

at 14.00 hrs - LHC Auditorium, bldg. 30, 7th fl.

How do we protect the LHC superconducting magnets in case of a quench?

by Felix RODRIGUEZ-MATEOS / CRN-LHC

** Please note the unusual day and time!*