

RESULTATS DE LA CAISSE DE PENSIONS EN 1992

En 1992, la performance de la Caisse a été de 8,1 %. Cette performance est tout à fait satisfaisante, eu égard surtout au fait qu'elle a été obtenue sans se démarquer de la politique prudente propre à tout investisseur institutionnel qui est à la base de toute la stratégie de placement de la Caisse.

CONCLUSIONS

Ces graphiques et ces données sont tirés du rapport annuel 1992 de la Caisse de pensions (CERN/1974-CERN/FC/3615), disponible dans les secrétariats de division pour les membres ou auprès de l'Administration de la Caisse (tél. 767 27 38 - 767 27 42) pour les bénéficiaires. Le rapport annuel contient des informations détaillées sur toutes les facettes de l'activité de la Caisse, que ce soit en matière de placements mobiliers ou immobiliers ou en matière d'évolution de la situation des membres et bénéficiaires ou encore sur les principaux sujets traités et sur le travail effectué par les organes de la Caisse. Si les questions touchant votre caisse de pensions vous intéressent, nous vous engageons vivement à lire le rapport annuel et à participer à l'Assemblée générale annuelle dont l'ordre du jour figure ci-dessus.

The English version will be published next week.

SEMINARS SEMINAIRES

Monday 6 September

PRESENTATION

at 10.00 hrs – Council Chamber

The use of GENESIA in Power Engineering and Distribution Systems

by Archie TAYLOR / AiiT, UK

Today there are available a wide range of data-acquisition systems and software tools. The application of AI (Artificial Intelligence) tools and Languages have also been applied to effectively support the Power Engineering and Electrical Distribution industry, however, there are still a number of fundamental limitations and problems that have not been overcome to deliver the responsive operational load-flow management and engineering support requirements that need to be satisfied. From the developments we are currently undertaking we will highlight how the reliable and innovative application of GENESIA expert system shell can add value to current and future systems to provide unmatched high performance, Distribution Systems management, and support capabilities. From actual operational examples, we will illustrate how the technical strategy adopted provides a most effective means to satisfy required Fault Analyses, Alarm Filtering, Circuit and/or Plant at Fault identification, Security Assessment and Network Analyses to provide considerable operational benefits and distribution network protection.

Information : François Chevrier / 4867

Monday 6 September

PPE SEMINAR

at 16.30 hrs – Auditorium

**Tests of the gauge structure of QCD
from e^+e^- annihilation**

by Michael SCHMELLING / CERN-PPE

Inclusive cross section measurements, event topologies and scale breaking effects observed in fragmentation functions yield precision measurements of the strong coupling constant and permit to test the underlying gauge structure of QCD. Results based on measurements between $\sqrt{s} = 1.8$ GeV and $\sqrt{s} = 91.2$ GeV will be presented.

Tuesday 7 September

PRESENTATION

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

**Engineering information modeling &
data sharing**

by Christian ROLLER / DECexpress Product
Manager, Digital München

EXPRESS is the first internationally standardized information modelling language and information modelling methodology enabling successful supplier and vendor/contractor integration. EXPRESS is applicable to any database domain and any application and operating system environment. This seminar will introduce the audience to the implications of CALS, and one of its subsets of standards called STEP, to their enterprise information management strategies. The presentation will be a high-level resume of

the pertinent aspects of database implementation strategies for CALS compliancy. Since CALS, and therefore STEP, is a collection of standardization efforts, this presentation will illustrate a specific result of STEP, the EXPRESS information modeling language, and its relevance to several industry segments. This talk will also present Digital's involvement in developing CALS standards, both in the United States as well as European initiatives in the STEP arena. This presentation will provide an overview of the current DECexpress products. To date, there are 2 products available,

- DECexpress Starterkit, which includes an (EXPRESS) Language Editor and an EXPRESS parser
- DECexpress Graphical Editor

Information :

Tor Bothner / 7095 / beep 5555 / bothner@dxcern

Tuesday 7 September

PRESENTATION

at 14.00 hrs – CN Auditorium
bldg 31/3-005

Oracle's Object Database Directions

by David BEECH / Oracle Corporation

This talk sets out Oracle's evolutionary approach to Object Orientated databases. The set-valued foundations of the relational model are effectively combined with a modern type system in making upwards-compatible extensions of SQL in ANSI/ISO SQL3. The resulting model may be described as circumrelational. Types and subtypes are definable by users in a hierarchy with multiple inheritance, encapsulation, methods, and polymorphism. "Objects" such as instances of these types and subtypes – are like generalized rows that exist in tables and subtables in corresponding hierarchies. Table hierarchies may be many-one with the type hierarchy at each node. Strongly typed references to objects allow for the construction of arbitrary collections and complex graphs of objects. The SQL data manipulation language is extended to apply to tables of objects, and a procedural language like an extended PL/SQL is introduced to define and manipulate objects. The language will also include bindings to other languages such as C++.

Wednesday 8 September

PS SEMINAR

at 11.00 hrs – PS Auditorium

The present status of KEK Ion-Channel Guided X-Band Free-Electron Laser (IXFEL)

by Ken TAKAYAMA / KEK, Japan

The KEK-IXFEL driven by an electron beam of 1.5 MeV and 500 A has achieved the output power exceeding 30 MW at 9.4 GHz, where the electron beam was introduced to the wiggler through ion-channel without any magnetic guiding. Various undesired features such as reflection, mode conversion, breakdown, and large shot-to-shot jitter have been observed in the FEL amplification. These phenomena should be related to really oversized RF components, and residual plasma electrons. To understand more clearly, a systematic study was conducted. Its results will be presented.

Wednesday 8 September

PRESENTATION

at 11.00 hrs – bldg 112/R-018

Presentation of the International Research & Consulting Group

by Alain ROUET / Science & Tec

A presentation is given on the activities on Group

- Scientific and Technical Studies
- Audits and Expert Opinions
- Development of Technologies

Wednesday 8 September

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Multiparticle production in perturbation theory

by Costas PAPADOPOULOS / CERN

I review recent results on multiscalar amplitudes, for any scalar field theory as well as for the Standard Model. I show that at any order of perturbation theory the amplitudes violate, generically, the unitarity limit. The phenomenon of nullification, i.e., the vanishing of the physical amplitudes at threshold, as well as the constraints that have to be satisfied by the theory, are presented. I present also a method to calculate integrals of the amplitude over the phase space, which will enable us to go beyond threshold. Finally, I discuss possible solutions of the unitarity problem, both in perturbation theory as well as beyond it.

Wednesday 8 September

ISOLDE SEMINAR

at 16.00 hrs – TH Conference Room

The end of the 17 keV neutrino

by Stuart FREEDMAN / University of California, Berkeley

Controversial evidence for a 17 keV neutrino has been deduced from beta spectrum measurements in ^3H , ^{35}S and ^{63}Ni decays. All experiments that claimed to see a 17 keV neutrino used Si detectors, all those that did not see such a neutrino used magnetic spectrometers. A new experiment, using a Si detector but a magnetic bottle to guide the betas, has overcome most of the shortcomings of previous Si detector and magnetic spectrometer experiments. This new result conclusively rules out previous claims for the 17 keV neutrino.

Friday 10 September

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

High-energy elastic scattering amplitude of unpolarized and charged hadrons

by Vojtech KUNDRAT / CERN and Institute of Physics, Prague

Electromagnetic as well as strong interactions play a significant role in the elastic scattering of unpolarized charged hadrons. One can describe relatively easily separate actions