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OFFICIAL NEWS

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AJUSTEMENT DES ALLOCATIONS ET INDEMNITES POUR LES STAGIAIRES ET ATTACHES NON REMUNERES

Conformément aux décisions prises par le Comité des Finances et par le Conseil à leurs réunions de décembre, les allocations et indemnités pour les stagiaires et les montants de base des indemnités de subsistance payables aux attachés non rémunérés et aux boursiers correspondants ont été ajustés avec effet du 1er janvier 1990.

Dans tous les cas le décompte de paie de janvier (ou celui du premier mois suivant la prise de fonction) vaudra avenant au contrat.

Service des boursiers et attachés
Tél. 4472

ADJUSTMENT OF ALLOWANCES FOR STUDENTS & UNPAID ASSOCIATES

Following the decisions by Finance Committee and Council at their December sessions, allowances for Students and the standard amounts of subsistence allowances which can be paid to Unpaid Associates and Corresponding Fellows, have been adjusted with effect from 1st January 1990.

In all cases the January pay slips (or the pay slip of the first month after taking up the appointment) will constitute amendments to contracts.

Fellows and Associates Service
Tel. 4472

SEMINARS SEMINAIRES

Tuesday 16 January

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium*

Search for new particles in ALEPH

by Sau Lan WU / University of
Wisconsin-Madison

A search for neutral Higgs bosons, supersymmetric particles, heavy quarks and leptons from Z^0 decay will be presented using the data collected by the ALEPH Collaboration.

* Tea & coffee will be served at 16.00 hrs.

Wednesday 17 January

THEORETICAL SEMINAR

at 14.00 hrs - TH Conference Room

Extended super Kac-Moody algebras and super derivation algebras

by P. SORBA / CERN

The Virasoro algebra V , defined as the central extension of the diffeomorphism algebra $\text{Diff}(S^1)$ of the circle S^1 , and any Kac-Moody algebra $\tilde{g}(S^1)$ are intimately related, V acting as the algebra of derivation on $\tilde{g}(S^1)$. This simple property is well known to play a

fundamental role in the two-dimensional conformal field theory. What if the circle S^1 is replaced by the supercircle $S^1 \otimes G_N$, G_N being the Grassmann algebra with N generators? The calculations of the central extensions relative to the super Kac-Moody algebras $\hat{g}(S^1 \otimes G_N)$ are performed and followed by the determination for each central extension of the 'compatible' diffeomorphism algebra. While the RNS algebra directly shows up in this approach, this is not the case for the other (i.e. $N \neq 1$) usual super conformal algebras : such a result deserves some comment and suggests new kinds of algebras. What if the circle is replaced by a (smooth compact) manifold M of $\dim > 1$? It then appears in particular that, for $\dim M = 2$, the area-preserving subgroup $SDiff(M)$ of the diffeomorphism group $Diff(M)$, which is also the symmetry group of the closed bosonic membrane M , is in one-to-one correspondence with the set of central extensions of $\hat{g}(M)$.

Wednesday 17 January

DD SEMINAR

at 16.00 hrs – DD Auditorium
bldg 31, 3-005

The K2 Project

by Marco ANNARATONE / ETH Zurich

The design space considered here is that of distributed-memory parallel processors (DMPPs) with 'medium-grain' (as opposed to massive) parallelism. Examples of commercial DMPPs include Warp, the announced iWarp, the Intel and NCUBE hypercubes, and various Transputer-based systems. While these computers have been received with great interest by researchers and scientists, they failed to establish themselves in the computer community at large. This fact must make researchers focus on those hard problems that the parallel processing community has been reluctant to tackle so far. The lack of a time-sharing, multi-user, multi-tasking operating system, the unacceptable costs of interactive debugging, and the baroque programming methodologies are such these problems. The K2 project is the first attempt to provide a solution to the above issues within one, comprehensive framework. This is accomplished through the architecture definition, design, and manufacturing of a novel parallel processor able to support a time-sharing, multi-user, multi-tasking operating system and an automatically parallelizing FORTRAN compiler. The talk deals mainly with the architecture of the machine and its development status. The work on the operating system, on the parallelizing FORTRAN compiler, and on the applications being developed on the machine is also briefly summarized.

Tuesday 23 January

PRESENTATION

at 14.00 hrs – DD Auditorium
bldg 31, 3-005

Omni Ray AG presents ACTEL, the revolution on the FPGA market

The Field Programmable Gate Arrays from Actel are implemented in silicon gate, 2 micron, 2-level metal CMOS, employing Actel's PLICE antifuse technology. The unique architecture offers gate array flexibility, high performance and instant turnaround through user programming. Utilization as high as 85 to 90% permits designs in excess of 1200 equivalent gates for the ACT1010 and 2000 gates for the ACT1020.

Programme : Introduction ACTEL
Technical Presentation Actel
Demonstration of the ACTEL
LOGIC SYSTEM
Discussion

Information : A. Thys / DD / 4918

Thursday 25 January

PRESENTATION

from 9.00 to 12.00 & 14.00 to 17.30 hrs
SL/BT Conference Room, bldg 865/1-D17

Efisysteme (F), Elektro-Phoenix (CH), and INCAA Computers (NL) will present different products using the industrial BITBUSTM (INTEL) concept for distributed control of slow equipment. A fully operational field bus, interconnecting modules of the different manufacturers and controlled from an IBM-PC, will be demonstrated.

Information : J. H. Dieperink / SL / 5482

Thursday 25 January

PRESENTATION

from 11.00 to 12.30 hrs
SPS Auditorium, bldg 864/1-D

Efisysteme (F) will present their industrial real-time control concept EFIWAYTM using 3.5 Mbit/s fibre-optic links. The presentation will be followed by a demonstration.

Information : J. H. Dieperink / SL / 5482