

Monday 16 December

PRESENTATION

at 11.00 hrs – CN Auditorium
bldg 31/3-005

DataWave – a single chip multiprocessor
by ITT / Intermetall, Freiburg, Germany

ITT Intermetall's DataWave processor is a MIMD multiprocessor system on a single chip. Each DataWave processor consists of 16 identical processor cells which are layed out as a matrix and are individually programmable. Each cell is a pipelined super-scalar RISC processor. It communicates with its four nearest neighbours using one of eight data-driven asynchronous parallel ports. On a chip level these ICs can be cascaded in one or two dimensions. The maximal computing power of a 16 cell array is 4 GOPS. The maximal data transfer rate is 750 MBytes/s. The DataWave processor employs a data-flow principle: the local availability of data drives the processor element, not a global master clock. This implementation doesn't force the programmer to maintain global synchronism, but let him manage a complex parallel system. Some implementations of applications (JPEG, SECAM) will be given to illustrate how to map an algorithm onto an array of DataWave cells. Some cell programs of these

applications will be discussed in order to demonstrate the opportunities and difficulties in programming the DataWave processor.

Information : W. Jank/ECP

Tuesday 17 December

CERN COLLOQUIUM

at 16.30 hrs – Auditorium

Field equations of massive gravity and their physical consequences

by A.A. LOGUNOV / Moscow State University & IHEP, Protvino

Wednesday 18 December

PRESENTATION

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

Presentation of NCR-3125 Electronic NotePAD computer

TRAINING AND EDUCATION ENSEIGNEMENT

ACADEMIC TRAINING

Tel. 2844

9, 10, 11 & 12 December

11.00-12.00 hrs

9, 11, 12 December – Auditorium

10 December – Council Chamber

Standard Model physics at LHC
by D. DENEGRI / CERN-PPE

16, 17 & 18 December

Monday 16 & Tuesday 17 : 10.30-12.00 hrs – Auditorium

Wednesday 18 : 11.00-12.00 hrs – Auditorium

LHC – Physics beyond the Standard Model
by F. PAUSS / ETH Zürich & CERN-PPE

Physics beyond the Standard Model will be discussed in the context of possible experimental signatures at the LHC. This includes the following physics topics: Supersymmetry (the Higgs-sector, the gluino-squark sector, possible extension of the MSSM), Heavy Vector Bosons and alternative symmetry breaking mechanisms. The impact on the design of the detectors will be briefly discussed as well.

ENSEIGNEMENT GENERAL

Tél. 5811

Jeudi 12 décembre

de 13.00 à 13.30 h – Amphithéâtre

Science pour tous

par Rafel CARRERAS

Dernière séance de l'année.

Reprise des conférences le 9 janvier.