

Thursday 14 November

PRESENTATION

at 10.00 hrs – DD Auditorium
(Bldg 31, 3-005)

TOSCA. Demonstration of 3 dimensional magnetic field computation on CERN's IBM VM-CMS System

by John SIMKIN / Managing Director, Vector Fields Ltd., Oxford

The TOSCA suite of programs was developed at Rutherford Appleton Laboratory and is marketed by Vector Fields Ltd. It is the most advanced finite element program for nonlinear magnetic and electrostatic field computation in 3 dimensions. A preprocessor program SCARPIA is supplied for mesh generation with interactive colour graphics facilities as an aid in CAE modelling. Wire frame and hidden surface 3D projections of the conductors and mesh are available.

Thursday 14 November

CERN COLLOQUIUM

at 16.30 hrs – Auditorium*

The restmass of the neutrino

by R.L. MÖSSBAUER / Technische Universität München

A review is given on our present knowledge of the neutrino restmass, inferred from direct ν -mass measurements and ν -oscillation studies.

* Tea and coffee will be provided at 16.00 hrs.

Friday 15 November

CAS ACCELERATOR SEMINAR

at 14.30 hrs – Council Chamber

Materials for high field superconducting magnets: status and prospects of Chevrel-phases

by O. FISCHER/ Département de physique de la matière condensée, Geneva University

The Chevrel-phase with the composition $PbMo_6S_8$ has by far the highest upper critical field of all superconductors and is therefore known to be a material with a great potential for use in superconducting high field magnets. Recent progress in industrial fabrication of wires has brought these materials closer to applications.

Monday 18 November

EF SEMINAR

at 11.00 hrs – EF Conference Room
(Bldg 13, 2-005)

Results and developments of micro-vertex detection

by F. PIUZ / CERN

Two apparatuses used/developed as vertex detectors at the WA75 / NA34 (HELIUS) experiments are reviewed. They combined silicon detectors (microstrips and pads) and drift chamber with channelling geometry. The performance of these elements are presented, emphasizing

their two-track separation capability (600 microns in channelling drift chamber). Late results and specific questions about vertex finding are discussed (target geometry, multiplicity trigger, detector limitations).

Monday 18 November

EP SEMINAR

at 16.30 hrs – Auditorium

The pseudoscalar puzzle in radiative J/psi decays

by N. WERMES / CERN-EP

The status of pseudoscalar states as observed by the Mark III experiment at SPEAR is reviewed. The radiative decays of the J/psi to the vector states rho-rho and omega-omega is reported. In order to investigate the role of the iota (1460) in the observed final states, a coupled channel analysis is presented on iota decays to kaon-anti-kaon-pi, rho-rho, omega-omega and gamma-rho.

Mercredi 20 novembre

SEMINAIRE LEP

à 14.30 h – Amphithéâtre LEP
(Bât 30, 7^e étage)

Les aimants dipolaires à champ faible

par Ch. ROY / CERN-LEP

TRAINING AND

EDUCATION

ENSEIGNEMENT

ENSEIGNEMENT GENERAL

Tél. 2844

Jeudi 14 novembre

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS

ACADEMIC TRAINING

Tel. 2844-3364

11, 13, 14 and 15 November

11.00 to 12.00 hrs – Auditorium

Introduction to logic programming and expert systems

by J. MENU / EPFL

19, 20 and 21 November

11.00 to 12.00 hrs – Auditorium

Plasma as a physics subject and a technological tool

by F. TROYON / EPFL

Any material heated above ten or twenty thousand degrees become a plasma. Plasma is found everywhere. Made of ions and electrons it has very specific properties, and sometimes esoteric. It can be held and thermally insulated by magnetic fields, heated by ohmic dissipation, by particle beams or by electromagnetic waves in a wide range of frequencies. In a plasma of deuterium and tritium at a temperature above a few 10^7 K, fusion nuclear reactions occur which give energy. The principles and the status of fusion research will be presented. Other nonconventional uses of plasmas will also be described.

LECTURE NOTES (Academic Training Programme)

- Lecture Notes or Copies of Transparencies are distributed to those who attended the lectures.
- Extra copies, in limited numbers, may be obtained (in the weeks following lectures)
but only from the SELF-SERVICE shelves at
 - the Main Library (DOC)
 - Building 54, R-005.

INFORMATICS TUTORIAL 1985-4

5 and 6 December

from 09.00 to 12.00 hrs and 14.00 to 17.00 hrs

The Graphical Kernel System

by F. Robert A. HOPGOOD and

David A. DUCE / Rutherford Appleton Laboratory, UK

Topics

The publication of GKS as an International Standard on 15 August 1985 was a milestone in the history of computer graphics. In the past the great diversity of basic graphics packages, with their confusingly different philosophies, has inhibited the development of graphical application software. An application written in terms of one basic graphics system may require restructuring in order to run with another system. GKS has been designed with the aim of establishing a unique base for the development of graphical applications software, offering exciting prospects for the portability of graphical software in the future. Hardware and software suppliers worldwide are now offering GKS products. The tutorial will provide a detailed presentation of the main features of GKS, both for graphical output and for graphical input.

GKS at CERN

The present and future of GKS at CERN will be outlined by Juergen Bettels of the graphics section of DD/EE in the last half hour of the course.

Material

Participants will receive copies of the book 'Introduction

to the Graphical Kernel System (GKS)' by F. R. A. Hopgood, D. A. Duce, J. R. Gallop and D. C. Sutcliffe.

About the lecturers

Bob Hopgood is head of Informatics Division at the Rutherford Appleton Laboratory in the UK. He has been involved in the development of graphic standards from the earliest days. David Duce works in the same division and is currently engaged in a research project concerned with the formal specification of GKS. He was one of the editors of the GKS document.

Registration

Please fill in the form below, cut it out and mail it to Mrs Monique Antal / DD before 22 November.

GKS Tutorial 5 and 6 December

Name and division :

Date :

Signature of group leader or equivalent :

INFORMATIONS

GENERALES

GENERAL INFORMATION

RESTAURANT No. 3 (PREVESSIN)

Temporary closure on 11 and 12 November 1985

For technical reasons Restaurant no. 3 in Building 866 will be closed on **11 and 12 November 1985**. The coffee bar will not operate on the morning of 11 November, but it will function normally in the afternoon and on 12 November. The cafeteria services in Buildings 864, 865 and 892 will operate normally. Larger vehicles will be provided for the bus service linking the Prévessin and Meyrin sites between 12.00 and 14.00 hrs on both days.

We regret the inconvenience to clients.

Personnel Department
Tel. 3962

RESTAURANT No. 3 (PREVESSIN)

Fermeture temporaire les 11 et 12 novembre 1985

Pour des raisons techniques, le Restaurant no. 3 situé dans le bâtiment 866 sera fermé les **11 et 12 novembre 1985**. Le bar à café ne sera pas ouvert le 11 novembre au matin, mais il fonctionnera normalement dans l'après-midi ainsi que le 12 novembre toute la journée. Les services de cafeteria des bâtiments 864, 865 et 892 seront assurés normalement. Des navettes de capacité supérieure relieront ces deux jours les sites de Prévessin et de Meyrin entre 12.00 et 14.00 h.

Nous regrettons vivement les inconvénients que cela représente pour les clients.

Département du Personnel
Tél. 3962