

Thursday 19 June

PRESENTATION

at 10.30 hrs - DD Auditorium
bldg 31, 3-005

VMEbus products from ROBCON OY (Helsinki)

by Kari SUTINEN / Manager Research and Development and Raimo MALILA / Sales Manager

Robcon OY will present their advanced VMEbus product line which includes a high performance MC68020 based CPU module. In addition, they will give information on their future product plans. At 14.00 hrs on the same day and at the same location, the Robcon representatives will be available for informal discussions.

Thursday 19 June

CERN COLLOQUIUM

at 16.30 hrs - Auditorium*

Muon-catalyzed fusion revisited

by Steven E. JONES / Brigham Young University, Provo, Utah, USA

A long-standing dream of high-energy physicists is being re-examined in light of recent discoveries. Thirty years ago, Andrei Sakharov and F.C. Frank advanced the notion that an elementary particle could induce nuclear fusion. Muon-induced proton-deuteron fusion was first observed by Luis Alvarez at Berkeley in 1956 and described in detail by David Jackson. In principle, a muon can induce more than one hydrogen fusion reaction, but rarely was catalysis observed. Renewed interest stems from the recent discovery that resonance phenomena greatly enhance muon catalysis in deuterium/tritium gases. Indeed, over 150 D-T fusions per muon (average) have been detected at LAMPF. The latest results and their implications will be discussed.

* Tea and coffee will be provided at 16.00 hrs.

Monday 23 June

PRESENTATION

at 10.00 hrs - DD Auditorium
bldg 31, 3-005

UNIX and Networking for the Cray X-MP

by Don MASON and Dave THOMSON / Cray Research, Minneapolis

Cray Research has reported the Unix Operating System to the X-MP and Cray 2 machines, and provided general purpose networking support, using the TCP/IP family of protocols, in addition to the traditional connection to front-end systems using the Cray Station Protocol. The talk will include an overview of these products for the X-MP system, with particular attention to enhancements and modifications necessary to achieve high performance.

Monday 23 June

EF SEMINAR

at 11.00 hrs - EF Conference Room

Report on the 3rd Pisa Meeting on advanced detectors held in Castiglione della Pescaia (Italy), June 2-7, 1986

by T.C. MEYER / CERN

The 3rd Pisa Meeting on advanced detectors reviews the latest developments in instrumentation for present and future detectors. The program includes sessions on calorimetry, tracking devices, lepton identification, heavy flavor tagging and more specialized apparatus dedicated to the detection of rare events. The talk will give a general overview of the conference contributions and possibly highlight a few selected topics.

Monday 23 June

EP SEMINAR

at 16.30 hrs - Auditorium

New results from CLEO on b quarks and upilon spectroscopy

by Michael OGG / Cornell University, Ithaca, NY

New results will be presented on exclusive and inclusive B meson decays. The relation between the hadronic decays and the semi-leptonic decays will be discussed, in particular its bearing on the measurement of b-u transitions. Data on the dipion transitions from the Upsilon (3S) bound state will also be shown, together with new measurements of the dipion mass distribution.

TRAINING AND

EDUCATION ENSEIGNEMENT

ENSEIGNEMENT GENERAL

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Jeudi 19 juin

de 13.00 h à 13.30 h - Amphithéâtre

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16, 17, 19 and 20 June

11.00 to 12.00 h - Auditorium

Trends and limits of gaseous detectors

by F. SAULI / CERN

23, 24, 25, 26 and 27 June

11.00 to 12.00 h - Auditorium

The physics of particle acceleration

by J.D. LAWSON / Rutherford Appleton Laboratory

Particle accelerators depend on the interaction between electric fields and free charges. Such interaction, relevant

also to microwave tubes, plasmas, and particle beam lasers, will be examined in a general way. Connections between various phenomena will be explored in a way that may at times be unconventional. The treatment will be informal, based on simple physical examples with the minimum possible use of formal mathematics. There will also be a historical survey of ideas for accelerators and

microwave tubes, with emphasis on those which are conceptually interesting but have not led to useful devices. A special attempt will be made to devise an acceptable scheme for classifying the various types of accelerator, and to discern the potential and limitations of some of the fashionable 'new ideas'.

INFORMATIONS GENERALES GENERAL INFORMATION

APPEAL FROM THE LIBRARY

Can anyone please help us to find the following items that are missing from the Library.

1. SAKURAI, J.J.

Invariance principles and elementary particles
Princeton University Press, 1964. 530.14 SAK.

This book is now out of print, and therefore cannot be replaced.

2. Physical Review D, vol. 15, nos 9-12, 1977 (bound volume).

Physical Review D, vol. 15, no 9, 1977 (single issue).

These contain an important paper by R.D. Field and R.P. Feynman; we need them back to keep the series intact.

Unfortunately, no rewards are offered, but many thanks from the Library Staff and users to anyone who can ensure the return of these books.

AVIS DE RECHERCHE

La personne qui aurait emprunté, ou vu, un micro-computer Epsom PX4, no. de série 011541, est priée de le rapporter au bureau R-B20, bât. 864, Prévessin, ou de téléphoner au 2930. Merci.

J. Bruderlein/LEP

Je recherche le propriétaire du véhicule VW Coccinelle blanche, garée au parking Haute tension, Meyrin.

M. Cheuret, tél. 5413

FRENCH BORDER-CROSSING FACILITIES

Like the Swiss Customs (see Weekly Bulletin 23/84), the French Customs and the Frontier and Air Police have decided to institute a new system of controls from 2 June 1986. It will take the form of a self-adhesive orange label attached to the bottom of the green 'Nothing to declare' sticker issued by the Swiss Customs.

1. Purpose of the operation

To speed up traffic flow at rush hours on working days without opening a special lane.

2. Entitlement to the facility

People working in Switzerland or France, including CERN personnel.

3. Crossing points

- Département de l'Ain : Ferney-Voltaire, RN 84 at Prévessin (beside the CERN site), Divonne.
- Département de Haute-Savoie : St-Julien, Archamps, Collonge/Salève, le Pas-de-Fechelle, Vallard, Thônex, Ambilly (Pierre-à-Bochet and Mon Idée), Moellesulaz, Moniaz, Chens-le-Pont, Veigy-Foncenex, St-Gingolf.

4. Issue procedure

The orange label will be issued free of charge, to holders of the green stickers issued by the Swiss Customs only, by the French Customs posts at :

- Département de l'Ain : Ferney-Voltaire, RN 84 Prévessin;
- Département de Haute-Savoie : St-Julien, Vallard-Thônex, Veigy-Foncenex, St-Gingolph.

Applicants will be required to complete an undertaking in duplicate and present the Swiss green sticker, a French or Swiss identity document and the vehicle's registration certificate ('grey card').

Important

The attention of those wishing to take advantage of this facility, which replaces a verbal declaration, is drawn to the fact that in doing so they are making a 'visible' declaration that they and their vehicles satisfy the customs and police regulations. It does not exempt them from any inspections which the Customs and Frontier and Air Police officers may deem it fit to make.

Dir. Adm.
Tel. 5152