

SEMINARS SEMINAIRES

MONDAY 1 AUGUST

TECHNICAL PRESENTATION

at 14.00 hrs - EF Conference Room
(Bldg.13 - 2nd floor - R 2-005)

PLESSEY (GB), represented by PLESSEY GmbH (D) will give an 'Optical Memories Technical Presentation'.

PLESSEY Memories have developed a laser-based holographic memory system with a storage capacity of up to 10^{12} bits. The revolutionary storage material 'Optape' can store 100K bits of data per square millimetre, or 62 m per square inch. Data can be read and rewritten many thousands of times, without degradation. 'Optape' is handled like magnetic tape but stores 10 000 times more data. It is far less sensitive to dust or scratching because it stores its information as an interference pattern and the original data pattern is distributed uniformly across the hologram. PLESSEY are presenting both an archival system (read only - helium-neon laser) and a plug compatible system unit (read/write - argon-ion laser). On-line systems costs can be reduced by a factor of 100 for a given amount of mass data. Applications will include mass archival storage, experimental data storage, simulation data, video replacement and on-line systems replacement.

Languages : English/German according to audience.

Information : M. Diraison / FI / Tel. 4585.

TUESDAY 2 AUGUST

CERN PARTICLE PHYSICS SEMINAR

at 16.00 hrs - Auditorium

"Results on neutral currents from the CERN/Dortmund/Heidelberg/Saclay neutrino experiment"

by F. Dydak / Univ. of Heidelberg

THURSDAY 4 AUGUST

CERN PARTICLE PHYSICS SEMINAR

at 16.00 hrs - Auditorium

"Upper limit on parity non-conserving neutral currents in atomic bismuth"

by E.N. Fortson / Univ. of Washington, Seattle

TUESDAY 9 AUGUST

CERN COMPUTER SEMINAR

at 14.00 hrs - Council Chamber

"Interpretive machines and program representation"

by M.G. Flynn / Stanford Univ.

TRAINING AND EDUCATION ENSEIGNEMENT

ENSEIGNEMENT TECHNIQUE Programme 1977 - 1978

MATHEMATIQUES

- Ateliers de mathématiques

PHYSIQUE APPLIQUEE

- Classification et interactions des particules
- Les accélérateurs et leur technologie
- Technologie des systèmes hydrauliques
- Technologie des gaz

ELECTRONIQUE

- Initiation à l'électronique (1ère année)
- Travaux pratiques d'électronique
- Systèmes non-linéaires et échantillonnés
- Fonctions logiques complexes
- Systèmes logiques programmés
- Circuits à sécurité intrinsèque
- Introduction à la fiabilité des composants

INFORMATIQUE

- Techniques de programmation en FORTRAN (2ème année)
- Introduction to computers
- Programmation en BASIC
- Programming in BASIC
- Introduction aux microprocesseurs
- Introduction to microprocessors
- Techniques de programmation des mini-ordinateurs
- Informatique de gestion (2ème année)

MECANIQUE

- Initiation aux techniques d'atelier
- Electro-mécanique
- Mesures par jauges de contraintes

ADMINISTRATION

- Procédures administratives et financières
- Eléments de statistique administrative
- Organisation des travaux administratifs.

La brochure contenant la description détaillée des cours, les durées et horaires ainsi que la procédure d'inscription peut être obtenue en retournant la carte verte qui a été distribuée à tout le personnel ou, à défaut, en renvoyant le coupon ci-dessous.



Au : Secrétariat de l'Enseignement Technique

De :

Division :

Je désire recevoir le Programme 1977-1978.

Délai d'inscription : 29 août 1977 au plus tard.

SUMMER STUDENT LECTURES

Date Time Title

This week :

- | | | |
|-------|-------|---|
| 1.8 - | 8.30 | No lecture |
| | 10.00 | No lecture |
| | 11.15 | C. Peyrou - The classic experiments which founded high energy physics |
| 2.8 - | 8.30 | No lecture |
| | 10.00 | S. Ting - Photons, heavy photons and new particles of matter (*) |
| | 11.15 | C. Peyrou - The classic experiments which founded high energy physics |
| 3.8 - | 8.30 | L. Van Hove - CERN and elsewhere in the 1980's |
| | 10.00 | No lecture |
| | 11.15 | C. Peyrou - The classic experiments which founded high energy physics |
| 4.8 - | 8.30 | D. Treille / L. Montanet - The structure of nucleons through lepton (e, μ , ν) scattering. Analysis of a few important experiments |
| | 10.00 | J.D. Jackson - The new particles: properties and spectroscopy |
| 5.8 - | 8.30 | D. Treille / L. Montanet - The structure of nucleons through lepton (e, μ , ν) scattering. Analysis of a few important experiments |
| | 10.00 | J.D. Jackson - The new particles: properties and spectroscopy. |

(*) Please note that Professor S. Ting's lecture to the Summer Students will be given on Tuesday, August 2 at 10.00 in the Auditorium (and not on July 29 or August 22, as previously announced).

Next week :

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|--------|-------|---|
| 8.8 - | 8.30 | D. Treille / L. Montanet - The 'New Physics'. Experiments on ψ , charm and heavy lepton production |
| | 10.00 | J.D. Jackson - The new particles: properties and spectroscopy |
| 9.8 - | 8.30 | D. Treille / L. Montanet - The 'New Physics'. Experiments on ψ , charm and heavy lepton production |
| | 10.00 | J.D. Jackson - What can the famous 21 cm astrophysical spectral line of atomic hydrogen tell us about the nature of magnetic dipoles? |
| 10.8 - | 8.30 | D. Treille / L. Montanet - Concepts and experiments in hadronic interactions : diffraction, peripheral interaction, hard scattering, etc. |
| | 10.00 | H.M. Chan - How we use quantum mechanics in particle physics |
| | 11.15 | F. James - Computing techniques: The Monte Carlo method |

- | | | |
|--------|-------|---|
| 11.8 - | 8.30 | D. Treille / L. Montanet - Spectroscopy of the hadrons: methods and results |
| | 10.00 | H.M. Chan - How we use quantum mechanics in particle physics |
| | 11.15 | F. James - Computing techniques: The Monte Carlo method |
| 12.8 - | 8.30 | D. Treille / L. Montanet - Spectroscopy of the hadrons: methods and results |
| | 10.00 | H.M. Chan - How we use quantum mechanics in particle physics |
| | 11.15 | F. James - What is a random number. |

All the lectures are held in the Auditorium and given in English

Fellows and Associates Service /
Personnel Division - Tel.4471-2-3

INFORMATIONS **GENERALES** GENERAL **INFORMATION**

HOW DOES A SUPERBRAIN WORK ?

In spite of his retirement, Wim KLEIN will present us with a show on

Tuesday 2 August at 20.00 hrs in Auditorium.

An American television crew, in collaboration with the Institute of Noetic Sciences will record this happening.

Hopefully, Wim KLEIN will be joined by the equally famous Hans EBERSTARK.

The show will be in English without translation. Admission is free but the number of seats is limited.

TRANSFERT DU SERVICE NETTOYAGE/BLANCHISSERIE

Ce service sera transféré dans le courant de la première semaine d'août dans le bâtiment 570 (ex. cantine Ohanessian), accès côté CERN.

Veuillez téléphoner au 3654 ou 3753 avant de vous rendre dans ce service.

Division SB



BANQUE - SOCIETE DE BANQUE SUISSE

A l'occasion de la Fête Nationale Suisse, nos guichets et bureaux seront fermés le 1er août 1977.

SBS / Agence CERN