

SEMINARS

SEMINAIRES

MONDAY 2 MARCH

EP SEMINAR

at 17.00 hrs - Auditorium

"Comparative Yields of Alkali Elements and Thallium from Uranium Irradiated with GeV protons, ^3He and ^{12}C "

by H. Gustafsson / CERN

Abstract : Mass-separated ion beams of the alkali elements Na, K and Fr and of the element Tl were produced by bombarding a UC_2 -graphite cloth target with 600 MeV protons, 890 MeV $^3\text{He}^{2+}$ and with 936 MeV $^{12}\text{C}^{4+}$. Isotopic production yields and cross-section distributions are discussed.

TUESDAY 3 MARCH

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium *)

"SPS-Experiments in 1979-80 - Part 1"

by J. May / CERN

*) Note : Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 16.00 hrs to meet the speaker and for informal discussions. Tea and coffee will be provided.

WEDNESDAY 4 MARCH

TECHNICAL PRESENTATION

09.30 hrs/16.00 hrs - Room 1-007, Bldg.17
(F9 CERN Meyrin - Oct.80 Map)

VG GAS ANALYSIS Ltd (UK) exhibition : - New 2-80 AMU Anavac Miniature Quadrupole Mass Spectrometer - New 1-100 AMU Supavac Miniature Quadrupole Mass Spectrometer - New 1-200 AMU SX Range of Quadrupole Mass Spectrometer, complete with DP-P16 digital programmer;

VACUUM GENERATORS Ltd (UK) exhibition : a selection of standard ultra-high vacuum products including FC style copper gasket style flanges, all-metal bakeable valves, mechanical UHV feedthroughs, electrical feedthroughs, viewports, etc., also displayed will be the new Model ITC 10 D Ionisation, Gauge Control Unit with digital display.

Language : English.

Information : M. Diraison / FI / 4585.

MERCREDI 4 MARS

PRESENTATION TECHNIQUE

09h30/16h30 - Salle 2-002, Bât.6
(E4 plan 1980 - CERN Meyrin)

LECROY Research Systems SA (USA/CH) propose en démonstration un ensemble de modules et de systèmes d'acquisition de données : LRS 3500 C system (data acquisition and control system), LRS 2280 system (high density ADC data acquisition system), LRS 4290 system (high-resolution drift chamber time digitizer), et les LRS 4416, 4418, 4448, 4508, 4516, 4616.

Langues : Anglais, français.

Renseignements : M. Diraison / FI / 4585.

WEDNESDAY 4 MARCH

OPEN MEETING ON LEP

at 14.00 hrs - Auditorium

Agenda :

1. Progress on LEP - H. Schopper.
2. LEP Experiments - E. Gabathuler.
3. Low-Beta Insertions (Parameters, Geometry Quadrupoles) - A. Hutton.
4. The Insertions at PETRA (Low- and Mini β , Vacuum Chambers, Synchrotron Radiation, Compensation of Experimental Magnets) - G. Wolf.

THEORETICAL SEMINAR

at 14.00 hrs - Theory Conference Room

"ITEP Moments and Quark-Antiquark Potentials"

by J.S. Bell / CERN-TH

Abstract : An attempt is made to illuminate the ITEP moment model, and the potential model, of charmonium-like systems, by confronting them. As a result, both remain obscure.

THURSDAY 5 MARCH

PS SEMINAR

at 10.30 hrs - PS Auditorium (Bldg.6)

"Display of posters for the 1981 Washington Conference on Particle Accelerators and short oral presentation, by R. Cappi of PS beam measurements at flat-top fields near transition energy (authors : R. Cappi, J.P. Delahaye, K.H. Reich).

JEUDI 5 ET VENDREDI 6 MARS

PRESENTATION TECHNIQUE

- Jeudi 5 mars - Meyrin
08h45/1730 - Parking PTT, Bât. 63
(D6 plan 1980 CERN Meyrin)
- Vendredi 6 mars - Prévessin
09h00/12h00 - Parking Bât. 867
(I 12 plan 1980 CERN Prévessin)

OCE-France SA, représentant OCE (NL), propose en démonstration le copieur "OCE 1900-ARC-S20" (fabric.NL) : papier ordinaire 60 à 220 gr, introducteur de documents, trieuse 20 cases, poudre monocomposant, microprocesseur, réduction, 45 copies/minute - le copieur "OCE 1550" de table (fabric.J) : papier ordinaire, microprocesseur, liquide dispersant + toner, recto-verso, by-pass.

Langue : Français.

Renseignements : M. Diraison / FI / 4585.

THURSDAY 5 MARCH

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium *)

"Evidence for the Two-Photon Decay of a Light, Penetrating Neutral Object"

by H. Faissner / Aachen Institute of Technology

Abstract : During an antineutrino-electron scattering experiment at the CERN PS, an excess of electromagnetic showers has been found in the beam direction. The effect comes most likely from a penetrating, light neutral particle in the beam, which decayed (or interacted) in the spark chamber. This process has been studied more closely in a decay experiment at the 590 MeV proton beam dump of SIN (Zürich) : Coincident two-photon events, emerging from a 2 m long decay region, were detected in a thin-foil spark chamber. A significant excess of photons was registered at angles $< 70^\circ$: 19 were observed, whereas (2.0 ± 0.2) were measured with cosmic rays, and (3.0 ± 0.5) were accelerator background. Measurements under different shielding conditions suggest that the 2γ events do originate in the decay region. By direct measurement of angles and energies, their invariant mass is $m_{\gamma\gamma} < 1$ MeV. All observations are compatible with the 2γ -decay of a half-weakly produced (and interacting) particle (perhaps the axion), of some msec lifetime and about 300 keV mass.

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POUR INFORMATION / FOR INFORMATION

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VENDREDI 6 MARS

SEMINAIRE DU LAPP

à 10h30 - Amphithéâtre du LAPP

Laboratoire d'Annecy-le-Vieux de Physique des

BULLETIN CERN

10/81 - 2.3.81

Particules, Chemin de Bellevue, Annecy-le-Vieux (Haute-Savoie, France)

"Les électrons pour débutants. Application aux machines du CERN"

by Y. Baconnier / SPS

Renseignements complémentaires auprès de :
Ch. Baglin/CERN/EP, Tél. 6557, ou Laboratoire d'Annecy-le-Vieux, Tél. (023) 23.32.45, int. 241.

MONDAY 9 MARCH

EP SEMINAR

at 17.00 hrs - Auditorium

"Radiation - Its Effect on Living Systems"

by I. Diehl-Marshall / Kernforschungszentrum Karlsruhe

TRAINING AND **EDUCATION** **ENSEIGNEMENT**

JEUDI 5 MARS

ENSEIGNEMENT GENERAL

(Tél. 2844)

13h00/13h30 - Amphithéâtre

"Science pour Tous"

par R. Carreras

MARDI 3, MERCREDI 4 ET JEUDI 5 MARS

ACADEMIC TRAINING

(Tél. 2844)

à 11h00 - Amphithéâtre

"Mécanique quantique et réalité"

par B. d'Espagnat / Univ. de Paris-Sud

(Pour le résumé, voir le Bulletin de la semaine dernière, ainsi que les affiches.)

SEMINAIRES DE FORMATION EN FRANCE

De nombreux instituts des Pays membres organisent des séminaires d'une durée de 2 à 5 jours sur des sujets techniques. Ces derniers pourraient intéresser des ingénieurs ou des techniciens du CERN. Il est reconnu que cette forme de formation continue est en général très efficace, stimulante et motivante.

Les Services d'Education et de Formation possèdent la plupart des programmes de ces instituts. Ils peuvent être consultés par toute personne intéressée.

Aujourd'hui nous vous présentons 7 instituts français, choisis parmi une trentaine, en indiquant pour chacun deux séminaires typiques du programme 1981.