

SEMINARS SEMINAIRES

Monday 14 June

SPECIAL EF SEMINAR

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

High Z Scintillator with Exceptionally
Short Resolution Time

by R. Allemand
M. Laval
J. Vacher

In the course of a development concerning new positron cameras, which require a coincidence between photons of 0.5 MeV, physicists in L.E.T.I. have developed Barium fluoride scintillators permitting resolution times of 120 ps (FWHM). This is being done by exploiting a fast U.V. component emitted by these crystals. The resolution time, the high density and the high Z of these scintillators make them attractive for many applications in high energy physics. The problem of adaptation of the new scintillators to photomultiplications and time pick off system will also be described.

EP SEMINAR

at 17.00 hrs - Auditorium

Charm Production in 400 GeV Proton-
Emulsion Interaction

by S.N. Ganguli / Tata Inst., Bombay

A study for production of charged charm particles has been made from 5032 proton-emulsion interactions at 400 GeV/c. To detect these decays minimum ionizing tracks from interactions were followed up to 2 mm. 23 charm like candidates leading to 3-prongs were recorded. The background from γ -overlap, trident/pseudo trident and secondary interaction is estimated to be 15. Because of longer life-time of $D^\pm$ we are sensitive to $\Lambda_c^\pm$. The production cross-section of $\Lambda_c^\pm$ from 8 events after making all the corrections is 106 ± 39 $\mu\text{b/nucleon}$.

Tuesday 15 June

PS AND SC COMMITTEE

OPEN SESSION

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at 09.00 hrs - Theory Conference Room *
(Building 4, 3rd floor)

- 1) Information from the Chairman.
- 2) Report on the Erice Workshop on Physics at LEAR with Low Energy Cooled Antiprotons (U. Gastaldi).

- 3) A Small Deceleration Ring for Extra Low Energy Antiprotons (ELENA); (PSCC/82-3/P52 Add.1 ; H. Herr).
- 4) Atomic Beam Magnetic Resonance Experiments at ISOLDE (Gothenburg-ISOLDE Collaboration CERN; PSCC/82-22/M104; C. Ekström).
- 5) Spectroscopic studies of exotic nuclei near doubly magic ^{48}Ca , and isomerism for $z = 35$ (CERN-Grenoble (ISN)-Lyon (IPN)-Madrid-Strasbourg (CRN); PSCC/82-14/M100; 82-15/M101; A. Knipper).
- 6) Measurement of β -delayed neutron spectra from fission product precursors (Mainz-Grenoble (ILL)-Glasgow (Kelvin Lab.)); PSCC/82-18/P54; 82-19/S54).
- 7) Measurement of β -delayed neutron resonances from $^{47-50}\text{Ar}$ and ^{50}K decays and their transition into cross-sections for the inverse process of $^{46-49}\text{K}$ and ^{49}Ca neutron capture : the correlated Ca and Ti isotopic anomalies and the astrophysical $n\beta$ process (Munich (MPI)-Mainz; PSCC/82-20/P55; 82-21/S55).
- 8) μSR Collaboration Status Report (CERN-Grenoble-Jülich-München-Parma-Rutherford-Uppsala; PSCC/82-23/M105; C. Bucci).
- 9) SC schedule and test beams (R. Neugart).
- 10) PS schedule and test beams (K. Kilian).

CLOSED SESSION

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at 14.30 hrs - DD Conference Room
(Building 31, 2-014).

*Please note change of place.

Tuesday 15 and Wednesday 16 June

LEP EXPERIMENTS COMMITTEE

CLOSED SESSION ONLY

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Tuesday 15 June : at 09.00 hrs - Rest. No.2
(Tortella's)

Wednesday 16 June : at 09.00 hrs - Sixth Floor
Conference Room (Administration
Building).

Wednesday 16 June

TECHNICAL PRESENTATION

9.30 hrs/16.30 hrs - Building 1, Room 1-025

ITL, Instrument Technology Ltd. (UK) will present:
1) Ultra-High Vacuum Components : ionization gauges and controllers, glass, sapphire and quartz view-ports, glass/metal tubulations and seals generally, and electrical leadthroughs;
2) Electro Optical Devices : image converters and intensifiers, including vacuum photodiodes, channel plate photomultipliers, streak camera tubes and imaging photon detectors with position sensitivity, magnetically focussed image intensifier.

Languages : English, French and German.

Information : M. Diraison / FI / 4585.

Wednesday 16 June

THEORETICAL SEMINAR

at 14.00 hrs - Theory Conference Room

The Cloudy Bag Model : A Phenomenological
Imposition of Chiral Symmetry on the MIT
Bag Model

by A.W. Thomas / CERN

This talk is intended as an overview of the consequences of the CBM for nuclear and particle physics - with applications from the neutron charge distribution to proton decay. It will be of a general nature, intended for both experimentalists and theorists.

LEP PROJECT COMMITTEE

OPEN SESSION

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at 14.30 hrs - ISR Auditorium

Electrical Power Distribution in LEP

by O. Bayard

Wednesday 16 June

SCIENCE AND SOCIETY/SCIENCE ET SOCIETE

I/ The impact of science on society is important today and may lead to irreversible and dramatic consequences tomorrow. Not all that can be done should be done, but all that can be known should be known - in particular about the consequences of research and its applications. These questions should be approached scientifically, by information and analysis; it is quite natural for an active scientist to apply his professional skill and knowledge to these aims.

A new series of lectures

SCIENCE AND SOCIETY

SCIENCE ET SOCIETE

is being launched. This series aims at providing technical and scientific facts and data as well as methods and results of analysis; it will provide the raw material from which anyone may draw his personal conclusions.

We hope to be able to invite scientists who have spent enough time and work on these questions to be considered as experts. However, even if they present only data and analysis, a personal bias (which data, which method of analysis ?) is unavoidable; often, the speaker will state an opinion. Therefore, whilst this series is part of the official CERN activities, nothing of the content of these lectures or in the ensuing discussions may be interpreted as official CERN statements, but only as the opinion of the speaker or of his partners in discussion.

R. Hagedorn
R. Klapisch
J. Steinberger

II/ à 20h30 - Amphithéâtre

Les conséquences médicales d'un conflit
nucléaire

par J. Diezi / Univ. de Lausanne

Les conséquences d'un conflit nucléaire pour la survie et la santé des populations concernées peuvent être considérées dans un ordre chronologique : 1) Effets immédiats et à court terme: il a été estimé que l'explosion de 1000 bombes d'une mégatonne entraînerait la mort immédiate d'environ 170 millions de personnes, et des blessures chez environ 150 millions. Dans de telles circonstances, les survivants ne pourraient bénéficier pratiquement d'aucune aide médicale. 2) Effets à moyen et long termes : les survivants d'un conflit nucléaire massif en Europe auraient à affronter des problèmes majeurs de santé, que l'on peut prévoir en partie : risques accrus de maladies infectieuses et transmissibles (conséquences d'une diminution des défences immunitaires, d'un manque de médicaments appropriés, de malnutrition, de conditions d'hygiène défectueuses, de la résistance des vecteurs aux radiations, etc.); risques accrus de maladies hématologiques (leucémies en particulier); malformations congénitales; augmentation de la fréquence de tumeurs solides; conséquences psychologiques et psychiatriques; désorganisation prolongée de tout système de santé.

Jeudi 17 Juin

PRESENTATION TECHNIQUE

09h00/11h00 - Bât. 73, Salle 2-027

Bourns AG (CH) (UK/USA) propose en exposition : potentiomètres, MFT (Multi-Function-Trimmer), potentiomètres de précision, atténuateurs, réseaux de résistance, transformateurs microminiature, d'impulsion, audiofréquence, pour convertisseurs, d'alimentation ultra plat, capteurs linéaire, de pression, circuits intégrés de PMI: amplificateurs de précision, référence de tension "silicon band gap", convertisseurs monolithiques en technologie bipolaire, Sample and Hold, buffers, comparateurs, multiplexeurs et commutateurs analogiques.

Langue : Français.

Renseignements : M. Diraison / FI / 4585.

TECHNICAL PRESENTATION

09.00 hrs/16.30 hrs - Bldg. 17, Room 1-007

Burndy Elektra AG (USA/B) and Grillet (F) will present power products : Hyground connectors, underground connectors, high voltage and limiters, bi-metallics, station connectors, terminals (both standard as well as specials).

Languages : English, French.

Information : M. Diraison / FI / 4585.

Jeudi 17 Juin

PRESENTATION TECHNIQUE

09h30/12h00 - Présentation et discussion
13h30/16h00 - Suite discussion

Bâtiment 30, Amphithéâtre ISR, 7ème étage

L'agence de Vienne (A) de Bureau Veritas (F), Société internationale d'inspection, propose une conférence sur ses prestations de service dans les domaines d'inspection : qualité matériaux, sécurité des installations industrielles (par ex. appareils sous pression, ou appareils de levage), sécurité des installations de traitement des données, construction/génie civil/bâtiments : calculs et essais sur site, constructions mécaniques/métalliques et électricité, interventions en usine et sur site.

Langues : Anglais, français.

Renseignements : M. Diraison / FI / 4585.

DD COLLOQUIUM

at 14.00 hrs - Council Chamber

Series on Office Automation and Person-Oriented Computing : Office Automation Possibilities offered by Olivetti

by F. Corradi and A. Olearo / Olivetti, Italy

PRESENTATION TECHNIQUE

14h00/16h00 - Bât. 73, Salle 2-027

Huit firmes suédoises au CERN :

Borlänge Elmekano AB : fabrication unitaire et en série de nombreux éléments de machine complexes, de bâtis de très haute précision. Tout l'usinage de la matière première jusqu'au produit fini en machines informatisées. Elmakrets Nykvarn AB : fabrique des cartes de circuits imprimés et des circuits imprimés prêts à l'emploi. Hebo-Verken : auxiliaires de câblages, échelles et chemins de câbles, armature barres-bus. Mekinor : groupe d'entreprises de mécanique spécialisées : tous types de travaux en tôles minces, moyennes, fortes, usinage, découpage... en plus du programme : disques de frein, habitacles de véhicules, appareils de chauffage de véhicules, constructions en acier, outils de poinçonnage et d'estampage. Micromatic International AB : atelier mécanique de haute précision et qualité.

Mora press o Formverktyg AB : prototypes, pièces de machines de haute précision, outils de moulage par injection, outils de coulage sous pression, outils de découpage, gabarits de positionnement, dispositifs de fixation. Nordtool AB : travaux de découpage, outils de découpage et de poinçonnage, gabarits de positionnement de dispositifs de fixation, éléments de machine, fabrication unitaire et en série. Uddeholm Strip Steel AB : feuillards en aciers spéciaux.

Langues : Anglais, français.

Renseignements : M. Diraison / FI / 4585.

Monday 21 June

EP SEMINAR

at 17.00 hrs - Auditorium

Results of the Charm Search with BIBC

by E. Hugentobler : Univ. of Bern

Tuesday 22 June *

PS SEMINAR

at 11.00 hrs - PS Auditorium (Bldg.6)

Present Status and Future Developments of the Antiproton Accumulator

by E. Jones / PS

* : Please note change of date !

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

Neutrino Physics at Los Alamos

by T.J. Bowles / Los Alamos

Thursday 24 June

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

Recent Results from the Prompt Neutrino Experiment at Fermilab

by G. Conforto / INFN Firenze, Italy

TRAINING AND EDUCATION ENSEIGNEMENT

INTERAGENCY COLLABORATION ON PERSONAL SKILLS AND MANAGEMENT TRAINING

Members of the personnel have the possibility of attending training courses or seminars run by other international organizations in Geneva.

The following list shows the subjects from the provisional programme for the second half of 1982 which could be of interest to members of CERN personnel and for which places are still available: