

COMMUNICATIONS OFFICIELLES

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OFFICIAL NEWS

Members of the personnel shall be deemed to have taken note of the news under this heading.

Reproduction of all or part of this information by persons or institutions external to the Organization requires the prior approval of the CERN management.

COMITE DES PENSIONS

Lors de sa 56e réunion, qui s'est tenue le 24 mai, le Comité des pensions a examiné la répartition des investissements de la Caisse. Il a ensuite formulé des directives à l'intention de la Commission de placement pour les douze mois à venir.

Le gérant du portefeuille immobilier a présenté au Comité une nouvelle conception de la gestion des biens immobiliers de la Caisse. Après en avoir débattu, les membres du Comité ont demandé que des informations supplémentaires leur soient fournies lors d'une prochaine séance.

L'Administrateur de la Caisse a présenté un certain nombre de statistiques dont il ressort que la Caisse de pensions compte 50 bénéficiaires de plus depuis le début de l'année. Il a également annoncé avec regret le décès de deux bénéficiaires, MM. A. Cantin et M. Iselin.

PENSIONS BOARD

At its 56th meeting, held on 24 May 1989, the Pensions Board discussed the Fund's investments pattern. It then drew up guidelines for the Investment Committee for the coming 12 months.

The manager of the real estate portfolio outlined a new approach for the management of the Fund's real estate. After discussion, the Board requested further information on the subject at a subsequent meeting.

The Administrator of the Fund presented some statistics showing that, since the beginning of the year, the number of beneficiaries of the Fund has increased by 50. He also announced with regret the deaths of two beneficiaries, Mr A. Cantin and Mr M. Iselin.

SEMINARS SEMINAIRES

Monday 12 June

EP SEMINAR

at 16.30 hrs – Auditorium

Observation of a new 2^{++} resonance

at $M = 1.565 \text{ GeV}/c^2$ in $p\bar{p}$ annihilation at rest

by E. KLEMPPT / Institute of Physics,
University of Mainz

We have observed two resonances in $p\bar{p}$ annihilation at rest which are likely to be non- $\bar{q}q$ objects. We observe the $E/\iota(1420)$ meson – discovered in $p\bar{p}$ annihilation in 1963 and now considered as a glueball candidate – in the reaction $p\bar{p} \rightarrow \pi^+ \pi^- K^+ \pi^- (K^0)$. In the reaction $p\bar{p} \rightarrow \pi^+ \pi^- \pi^0$, we observe a $(\pi^+ \pi^-)$ resonance at a mass $1565 \pm 10 \text{ MeV}/c^2$ and a width $170 \pm 20 \text{ MeV}/c^2$. The analysis of the Dalitz plot suggests the quantum numbers $I^G(J^{PC}) = 0^+ (2^{++})$. This resonance is likely to be a multiquark ($qq\bar{q}\bar{q}$) state.

Tuesday 13 June

TECHNICAL PRESENTATION

09.30 to 12.00 hrs – DD Auditorium
bldg 31, 3-005

Ether and Inter-networking under OS-9

Evira (F) will present the solution for the interconnection of OS-9 based systems with a large variety of computers using the TCP/IP protocol. The OS-9 systems include those on the G-64 and VME bus interconnected via an ethernet.

Language : French & English

Information : M. Diraison / FI / 4585

Tuesday 13 June

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Status of the SSC Laboratory

by R. SCHWITTERS / SSC

A description of the mobilization efforts in Texas and technical developments on the SSC will be presented.

* Tea & coffee will be served at 16.00 hrs.

Wednesday 14 June

ULTRIX PRESENTATION

09.00 to 12.30 hrs – DD Auditorium
bldg 31, 3-005

by N. BOGSTAD, P. DYSLI & C. RITTER /
Digital Equipment Corporation SA

- *Networking Products/possibilities*
- *Ultrix and VMS*
- *DECwindows/CDA*
- *DEC's strategic vision on UNIX*

Wednesday 14 June

TECHNICAL PRESENTATION

09.00 to 12.00 hrs – Auditorium

New Fibre Optic products

by G. ROSSÉ : Presentation Applitec Ltd &
D. BLARASIN : Presentation of our products

1. *JDS products (Canada)*
Couplers, multiplexers, alternatives
2. *AT&T products (USA)*
Fibre optic elements up to 200 Mbit/s
3. *Intelco products (USA)*
*Measuring instruments such as laser sources,
Power Meter, etc.*
4. *Connection for fibre monomode and multimode.*
*This presentation is for every user interested in fibre
optic application and transmission.*

Language : English

Information : M. Diraison / FI / 4585

Wednesday 14 June

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Quantum gravity on flatland

by R. JACKIW / MIT, Cambridge

*Physics in three-dimensional space-time is attracting a
widening circle of interest for three reasons :*

1. *Physical systems confined to a plane arise in
Nature: quantum Hall effect, high- T_c super-
conductivity and (perhaps) motion in the presence
of cosmic strings.*
2. *The structure of models in three dimensions exhibits
much unforeseen mathematical/topological rich-
ness; understanding this may illuminate related
issues in physically relevant four-dimensional
theories, for example general covariance.*
3. *Three-dimensional field theory governs the
parameter space of membranes, just as two-dimen-
sional field theory governs the parameter space of
strings; those that these days are extracting them-
selves from string entanglements and delving into
membranes are necessarily making use of three-
dimensional quantum field theory.*

*In my talk, I shall concentrate on gravity theory,
describe its three-dimensional peculiarities, its particle
and scattering solutions, and the interpretative
problems that the research has uncovered.*

Wednesday 14 June

COMPUTER SEMINAR

at 16.00 hrs – Auditorium*

The design of human-computer interfaces

by Bernard SUFRIN / University of Oxford

*Designing an effective user interface to a complex
information system is difficult, since it cannot be
done in isolation from the design of the information
system itself. All too often the effectiveness of a
system is compromised by the intrusion into the
human interface of details of the system's implemen-
tation. We conjecture that it is only by understand-
ing the essence of the purpose of an information
system – abstracting from the details of any
proposed implementation – that one can begin to
judge the validity of design choices concerning the
user-system interface. We believe that the language
of mathematics is a useful medium both for explain-
ing our understanding and recording design choices.
In this talk we explore the application of discrete
mathematics to the design of (part of) an interactive
office system.*

Bernard Sufrin is a mathematician, but has spent ten years as a
computer-science refugee from mathematics, including spells at
the University of Essex, Carnegie-Mellon University, and Bolt
Beranek and Newman. He was invited to join Tony Hoare in
Oxford in 1978, with the challenge to 'start using some of that
mathematics'. He is co-designer (with Abrial and Sorensen) of the
Z specification language.

* Coffee and tea will be served at 15.30 hrs.

Thursday 15 June

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

New results from NA31 on CP violation and CPT

by Valerie GIBSON / CERN

* Tea & coffee will be served at 16.00 hrs.

Lundi 19 juin

SEMINAIRE EF EN ELECTRONIQUE

à 11.00 hrs – Salle de Conférence EF
bldg 13, 2-005

Les PC IBM ou compatibles dans l'envi- ronnement du développement électronique

par Pierre BAEHLER / CERN-DD

*Le prix avantageux des PCs les rend relativement
faciles à acquérir et a déjà permis une utilisation
assez répandue au CERN. Il existe des ensembles de
logiciels pour ces machines qui peuvent faciliter les
tâches journalières de conception et de dévelop-
pement électroniques. Le séminaire va présenter un
échantillon de ces outils et des démonstrations seront
données dans la mesure du possible. Les possibilités
de télécommunication et d'accès aux ordinateurs
centraux seront également décrites. Le but est de*

montrer ce qui est possible, et non d'entrer dans les détails d'utilisation d'outils spécifiques. Les possibilités sont nombreuses, mais pour éviter les déceptions il est fondamental de reconnaître aussi les limites de ces logiciels. Ce sujet sera également traité.

Monday 19 June

ISOLDE SEMINAR

at 14.00 hrs – Council Chamber

**Nuclear astrophysics
with radioactive ion beams**

- 14.00 *Experimental quests for radioactive ion beams (RIB)*
C. Rolfs / Münster
- 14.45 *The RIB facility at Louvain-la-Neuve*
J. Vervier / Louvaine-la-Neuve
- 15.30 *Indirect determination of nuclear cross-sections via resonance properties*
P. Aguer / Orsay
- 16.15 *Coulomb dissociation as an alternative to radiative capture*
H. Rebel / Karlsruhe

Tuesday 20 June

ISOLDE SEMINAR (continued)

at 09.00 – TH Conference Room

**Nuclear astrophysics
with radioactive ions beams**

- 09.00 *Nucleosynthesis of light and intermediate mass nuclides* M. Arnould / Brussels
- 09.45 *Nucleosynthesis of heavy nuclides in the p- and r-process*
M. Rayet / Brussels
- 10.30 *Microscopic calculations of nuclear reaction rates*
K. Langanke / Münster
- 11.15 *Concept for a post-accelerator at ISOLDE*
H. Haas / CERN

Tuesday 20 June

TECHNICAL PRESENTATION

09.00 to 12.00 hrs & 14.00 to 16.00 hrs

LEP Auditorium, bldg 30, 7th floor

Software presentation

by Racal-Electronics SA Redac Division
(CH/GB)

Mardi 20 juin

PRESENTATION TECHNIQUE

de 09.30 à 12.00 h & de 14.00 à 16.00 h
bât. 6, 2-004

Micro-Contrôle (F) développe et fabrique des éléments mécaniques de micro-déplacements manuels ou motorisés.

Renseignements : M. Diraison / FI / 4585

Mercredi 21 juin

PRESENTATION TECHNIQUE

de 09.00 à 12.00 h & de 13.30 à 16.30 h
bus, parking PTT, près du bât. 63

Meitec AG (CH) présente son programme 'Technique de câblage'

Friday 23 June

DD SEMINAR

at 14.00 hrs – DD Auditorium
bldg 31, 3-005

Concurrent processing in reduction systems
by Werner KLUGE / University of Kiel,
Germany

TRAINING AND EDUCATION ENSEIGNEMENT

ENSEIGNEMENT GENERAL

Tél. 2844-5811

Jeu di 15 juin

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS

ACADEMIC TRAINING

Tel. 2844-3364

20, 21, 22 & 23 June

11.00 to 12.00 hrs – Auditorium

**The physics of heavy ion beams : basic concepts,
present status, future plans**

by P. SONDEREGGER / CERN-EP