

COMMUNICATIONS OFFICIELLES

Les membres du personnel sont censés avoir pris
connaissance des communications officielles ci-après.

OFFICIAL NEWS

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

REINTEGRATION - Sécurité sociale française

La permanence mensuelle de la Sécurité
sociale française au CERN aura lieu

mardi 1er août de 13.00 à 15.00h
salle de conférences No.2, bât.5,
1er étage

Les personnes intéressées sont priées de
prendre rendez-vous en téléphonant au Secrétariat
de la Section des Affaires sociales, interne
4201.

SEMINARS SEMINAIRES

TUESDAY 1 AUGUST

DD SEMINAR

at 16.00 hrs - DD Conference Room -
Building 31, third floor

"Predictive Modeling - An experimental
approach to developing new generalized
database systems (GDBMS)"

by W.T. Hardgrave, University of Maryland

*Abstract : In recent years, the cost of develop-
ing a new, innovative commercial GDBMS (including
an online query facility) has grown so high that
few organizations can afford the risk. For exam-
ple, the development of System 2000 from research
system (TDMS and RRMS) to commercial product (ex-
cluding maintenance and documentation) required
more than five calendar years and over 100 man-
years by conservative estimates.*

*The research described here is an effort to
develop a methodology and associated tools to aid
the GDBMS designer and help recognize when break-
throughs in hardware design can make new GDBMS
architectures feasible.*

The current approach consists of:

- a prototype of the set-processor
- a measurement system including a probe
inserted into the prototype
- a computer model that predicts performance
of the prototype

*The talk will describe how these systems
interact to:*

- 1) improve the prototype, and
- 2) predict the performance of the prototype
in a "real-world" environment.

*The work is still in progress and neither the
accuracy nor the ultimate usefulness nor the costs
are known yet.*

THURSDAY 3 AUGUST

ESO ASTROPHYSICS SEMINAR

at 14.00 hrs - DD Conference Room -
Building 31, third floor

"Are Crab-type Supernova Remnants
(Plerions) Short-lived?"

by K. Weiler, MPI für Radioastronomie, Bonn

*Abstract : Arguments are given for a possible
picture of the origin, maintenance, and lifetimes
of the so-called Crab-like supernova remnants. It
is suggested that these objects imply the existen-
ce of at least two distinct types of supernova
events and a possible connection of the remnant
types with the optically defined supernovae of
Type I and Type II is discussed. Accepting that
a pulsar is formed in at least some supernova
events, the proposal is made that a rapidly ro-
tating, rapidly slowing pulsar is necessary to
create and maintain a Crab-like supernova remnant.
Finally, arguments are presented that such a su-
pernova remnant will be relatively short-lived
with respect to the more common shell-type of
supernova remnant, perhaps surviving only 10 000
to 20 000 years before fading into the Galactic
background.*

*The name of plerion is suggested for these filled-
center supernova remnants and observational pos-
sibilities for confirming their nature are sugges-
ted.*

TRAINING AND EDUCATION ENSEIGNEMENT

SUMMER STUDENT LECTURES - THIS WEEK

- | | | |
|-------|-------|---|
| 31.7. | 8.30 | E. Rimmer - "Electronic Detectors
and Nuclear Instrumentation"
Lecture 7 |
| | 10.00 | M. Sendall - "Electronic Detectors
and Nuclear Instrumentation"
Lecture 8 |
| | 11.15 | V.F. Weisskopf - "Particles and
Symmetries" - Lecture 3 |
| 1.8 | 8.30 | M. Sendall - "Electronic Detectors
and Nuclear Instrumentation"
Lecture 9 |
| | 10.00 | D. Treille - "The exploration of
the internal structure of the
nucleon" - Lecture 1 |
| | 11.15 | V.F. Weisskopf - "Particles and
Symmetries" - Lecture 4 |

- 2.8 8.30 Dimcovski/Heck/Rimmer/Sendall
"Electronic Detectors and Nuclear
Instrumentation" Demonstration
Lecture 10
- 10.00 D. Treille - "The exploration of
the internal structure of the nu-
cleon" - Lecture 2
- 11.15 V.F. Weisskopf - "Particles and
Symmetries" - Lecture 5
- 3.8. - 8.30 No Lecture
- 10.00 D. Treille - "The exploration of
the internal structure of the
nucleon" - Lecture 3
- 11.15 V.F. Weisskopf - "Particles and
Symmetries" - Lecture 6
- 4.8. - 8.30 D. Treille - "The exploration of
the internal structure of the
nucleon" - Lecture 4
- 10.00 D. Treille - "The exploration of
the internal structure of the
nucleon" - Lecture 5
- 11.15 V.F. Weisskopf - "Particles and
Symmetries" - Lecture 7
- NEXT WEEK
- 7.8. - 8.30 No lecture
- 10.00 T. Bloch - "High speed computers
and how they are integrated into
a system" - Lecture 1
- 11.15 V.F. Weisskopf - "Particles and
Symmetries" - Lecture 8
- 8.8. 8.30 T. Bloch - "High speed computers
and how they are integrated into
a system" - Lecture 2
- 10.00 V. Alessandrini - "How we use
Quantum Mechanics in Particle
Physics" - Lecture 1
- 11.15 E.G. Michaelis - "Introduction to
Particle Accelerators" - Lecture 1
- 9.8. 8.30 T. Bloch "High speed computers
and how they are integrated into
a system" - Lecture 3
- 10.00 V. Alessandrini - "How we use
Quantum Mechanics in Particle
Physics" - Lecture 2
- 11.15 E.G. Michaelis - "Introduction
to Particle Accelerators" -
Lecture 2
- 10.8. 8.30 T. Bloch - "High speed computers
and how they are integrated into
a system" - Lecture 4
- 10.00 V. Alessandrini - "How we use
Quantum Mechanics in Particle
Physics" - Lecture 3
- 11.15 E.G. Michaelis - "Introduction
to Particle Accelerators" -
Lecture 3
- 11.8 8.30 J. Baarli - "Radiobiological
considerations in radiation
protection"
- 10.00 V. Alessandrini - "How we use
Quantum Mechanics in Particle
Physics" - Lecture 4

All lectures will be given in English (though
questions and/or comments in French are welcome),
and will be held in the Main Auditorium.

ENSEIGNEMENT TECHNIQUE

*La brochure "Enseignement Technique - Programme
1978-1979" est actuellement disponible. Vous
pouvez en obtenir un exemplaire soit en retournant
la carte de commande qui a été distribuée à tous
les membres du personnel, soit en remplissant et
renvoyant le coupon ci-dessous.*

*Cette brochure contient la description détaillée
des cours organisés à l'intention du personnel
TECHNIQUE ET ADMINISTRATIF.*

*Le programme comporte cette année les cours
suivants :*

MATHEMATIQUES

3 ateliers de mathématiques

PHYSIQUE APPLIQUEE

Principes des détecteurs modernes
Techniques cryogéniques
Technologie et sécurité des gaz
Lois physiques et problèmes énergétiques
*Les accélérateurs et leur technologie
(action spéciale)*

ELECTRONIQUE

Initiation à l'électronique (2e année)
Travaux pratiques d'électronique
Electronique analogique
Circuits et systèmes logiques
Systèmes logiques programmés

INFORMATIQUE

Initiation à l'informatique et aux techniques
de programmation
Systèmes d'exploitation de mini-ordinateurs
*Introduction to microprocessors
Introduction to microcomputer programming*

COURS POUR MECANICIENS

Electro-mécanique
Initiation à la technique du vide
Techniques du vide

ADMINISTRATION

Organisation des travaux administratifs
Eléments de statistiques

DELAÏ D'INSCRIPTION : 1er septembre 1978

*La brochure peut être également consultée dans les
Secrétariats de Divisions.*

A : Secrétariat de l'Enseignement Technique

Veuillez m'envoyer une brochure "Enseignement
Technique - Programme 1978-1979".

NOM ET PRENOM :

DIVISION :