bulletin

Semaine du lundi 14 juillet no 29/97 Week Monday 14 July

Deuxième conférence Edoardo Amaldi sur les ondes gravitationnelles

En résumant les débats de la Conférence Edoardo Amaldi de la semaine dernière, Bernard Schutz, de l'Institut Albert Einstein de Potsdam, a évoqué l'importance de la recherche sur les ondes gravitationnelles pour la physique fondamentale. Le fait que cette conférence ait été organisée au CERN en porte selon lui le témoignage.

Résumer des débats n'est jamais facile, et Schutz n'a pas hésité à donner ses vues personnelles sur les questions abordées. Il a commencé par rendre hommage aux progrès qui ont été faits dans la description théorique des sources d'ondes gravitationnelles, en particulier les trous noirs, et il a évoqué les percées spectaculaires opérées par les groupes d'expérimentateurs. La nouvelle méthode pour la détection des ondes gravitationnelles, faisant appel à l'interférométrie, où ces mêmes ondes provoquent de faibles variations dans les figures d'interférence entre les faisceaux lumineux, a définitivement quitté le stade des études pour celui de la réalisation. D'ambitieux projets sont actuellement à l'étude, visant à envoyer un détecteur d'ondes gravitationnelles dans l'espace.

Mais qu'en est-il du principal objectif des organisateurs de la conférence, celui de favoriser la création d'un réseau mondial d'expériences sur les ondes gravitationnelles? Sur ce point, Schutz s'est montré prudemment optimiste. Les expérimentateurs qui cherchent dans d'énormes barres métalliques des oscillations provoquées par des ondes gravitationnelles, et ceux qui utilisent des interféromètres, apprennent à parler le même langage et à présenter leurs données dans un format commun et compréhensible à chacun d'eux. Les plans pour la phase d'analyse des données des expériences interférométriques s'intensifient, mais il reste encore du chemin à parcourir. En ce qui concerne les expériences utilisant des barres en revanche, les organisateurs de la conférence peuvent se féliciter eux-mêmes d'un travail bien fait. La conférence a en effet contribué à la naissance de la

Bernard Schutz résume les débats de la Conférence Edoardo Amaldi sur les ondes gravitationnelles qui s'est tenue la semaine dernière au CERN. La conférence a été un grand succès, avec des participants venus d'aussi loin que l'Australie et le Brésil.

Bernard Schutz sums up last week's Edoardo Amaldi Conference on Gravitational Waves, held at CERN. The conference was a great success, attracting delegates from as far afield as Australia and Brazil.

2nd Edoardo Amaldi Conference on Gravitational Waves

In summing up last week's Edoardo Amaldi Conference, Bernard Schutz of the Albert Einstein Institute in Potsdam spoke of the importance of gravitational wave research to fundamental physics. The fact that the conference was being held at CERN, he said, was testimony to that.

As always, the job of the summary speaker is a difficult one, and Schutz made no apologies for giving his personal perspective of the issues. He began by praising the progress which has been made on theoretical descriptions of sources of gravitational waves, particularly black holes, and he discussed the tremendous advances being made by experimental groups. The new interferometry approach to gravitational wave detection, in which gravitational waves induce changes in the interference patterns between light beams, is now firmly off the drawing board and into the construction phase. Ambitious plans are also being laid to put a gravitational wave detector into space.

But what of the conference organizers' primary goal, to nurture the establishment of a global network of gravity wave experiments? On this, Schutz was cautiously optimistic. The bar experimenters, who look for oscillations in huge bars of metal caused by passing gravitational waves, and the interferometer experimenters are learning to speak the same language, presenting their data in a common format which both can understand. Planning for the data analysis phase of the interferometry experiments is increasing, but there is still some way to go. Among the bar experiments, however, the conference organizers can congratulate themselves on a job well done. The conference served as midwife to the International Gravitational Event Collaboration which draws together many of the established bar experiments into a common global team.

After formal conference business was concluded, delegates were taken on a tour of CERN, acknowledged by Schutz as a model for successful international collaboration. Looking back over the years at CERN, he was impressed how each new state-of-the-art machine is linked

Collaboration internationale pour les événements gravitationnels, qui rassemble dans une équipe mondiale commune un grand nombre des expériences existantes employant des barres.

Après la clôture officielle de la conférence, les délégués ont pu faire une visite du CERN, qualifié par Schutz de modèle de collaboration internationale réussie. Evoquant les années écoulées au CERN, il s'est déclaré impressionné de voir comment les machines nouvelles qui se sont succédé, et qui étaient chaque fois les plus modernes, ont été intégrées dans la chaîne d'accélérateurs, et il s'est demandé si la recherche sur les ondes gravitationnelles évoluerait de la même manière.

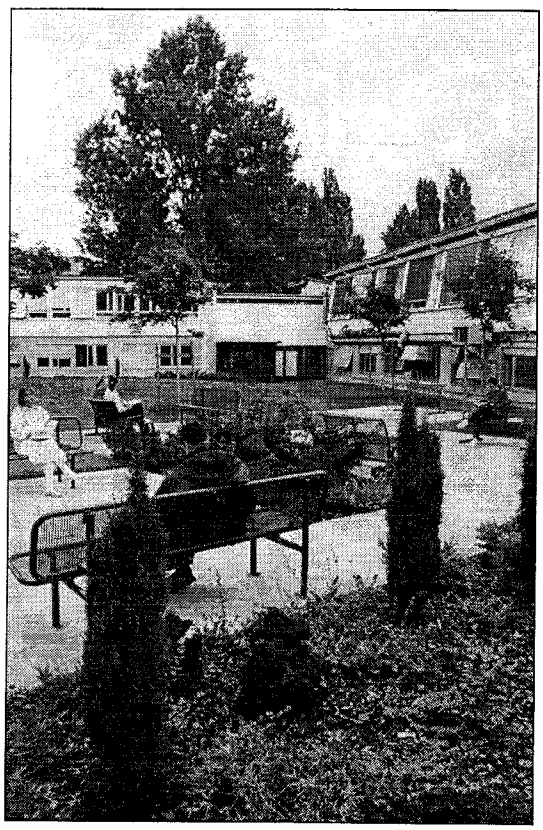
into the accelerator chain, and wondered whether gravitational wave research will evolve in a similar way.

Un jardin secret

Après un niveau de précipitations record pour un mois de juin, le soleil semble enfin faire son apparition pour de bon! Alors profitez-en même à la bibliothèque en vous réfugiant dans son "jardin secret".

Le bâtiment 52 et le laboratoire 3 ont en commun une cour intérieure dont l'aménagement en "salle de lecture à ciel ouvert" fut décidée lors de la rénovation de la bibliothèque du CERN

En effet, le rez-de-chaussée du bâtiment 52 mis à la disposition de la bibliothèque permit d'augmenter la surface de stockage mais aussi d'ouvrir un accès à la cour intérieure aux 60 000 personnes qui visitent chaque année la bibliothèque.



Cette cour est d'une surface de 400 m^2 et constitue donc un espace de lecture idéal. Sa transformation en un jardin fut un travail de longue haleine puisqu'il fallut d'abord remplacer les arbres et les arbustes abimés datant de 1954 puis poser des dalles, planter du gazon, installer des bancs et enfin aménager un accès pour handicapés. Le résultat est un magnifique jardin idéalement situé. La bibliothèque est en effet à la fois proche du bâtiment principal et sur le chemin d'un important flux de personnes.

Pour accéder au jardin, entrez au premier étage de la bibliothèque qui renferme les manuels et ouvrages scientifiques puis dirigez vous vers le rez-de-chaussée où sont stockés tous les périodiques. En bas de l'escalier s'ouvre à vous un lieu de lecture vert, calme et original.

A secret garden

After a record rainfall level for the month of June, the sun seems to be well and truly here at last! Why not make the most of it, even in the Library, by paying a visit to the "secret garden"?

Building 52 and Laboratory 3 share an inner courtyard, which it was decided to convert into an "open-air reading room" during the recent renovation work on the CERN Library.

Making over the ground floor of Building 52 to the Library not only increased the latter's storage space but allowed the inner courtyard to be opened up to the 60,000 people visiting the Library every year.

This 400 m^2 courtyard constitutes an ideal reading area. Its conversion into a garden was a long and exacting task, which began with the replacement of damaged trees and shrubs dating back to 1954, followed by the laying of slabs and a lawn, the installation of benches and, finally, the creation of an entrance for disabled users. The result is a wonderful garden in an ideal location since the Library is both close to the Main Building and on a corridor used by a large number of people.

Should you wish to visit the garden, enter the Library via the first floor where the scientific books and reference works are kept and go down to the ground floor which houses the periodicals. At the bottom of the stairs you will find an original, peaceful green reading area awaiting you.

COMMUNICATIONS *OFFICIELLES*

OFFICIAL NEWS

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

La reproduction même partielle de ces informations par des personnes ou des institutions externes à l'Organisation exige l'approbation préalable de la Direction du CERN.

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.

RAPPEL

ENFANTS DES MEMBRES DU PERSONNEL DU CERN NON FRANÇAIS RESIDANT EN FRANCE

Les membres du personnel du CERN non français résidant en France dont les enfants, âgés de moins de 16 ans, n'ont pas droit à un document de légitimation délivré par le Ministère français des Affaires étrangères ou à une carte de séjour délivrée par la Préfecture, sont priés de prendre note de l'arrangement local suivant, passé avec les autorités françaises:

Lorsqu'un enfant franchit la frontière, il lui est demandé d'être muni, non seulement de son passeport ou de sa carte d'identité, mais également d'une photocopie du document de légitimation (délivré par le Ministère français des Affaires étrangères) en cours de validité de son parent membre du personnel du CERN.

Relations avec les Pays-hôtes
Tél. 75152

REMINDER

CHILDREN OF NON-FRENCH MEMBERS OF THE CERN PERSONNEL RESIDENT IN FRANCE

Non-French members of the CERN personnel resident in France with children under the age of 16, who are not entitled to a legitimation document issued by the French Ministry of Foreign Affairs or to a residence permit issued by the préfecture, should take note of the following local arrangement with the French authorities:

When a child crosses the border, he/she is required to carry not only his/her passport or national identity card, but also a photocopy of the valid legitimation document (issued by the French Ministry of Foreign Affairs) of the parent who is a member of the CERN personnel.

Relations with the Host States
Tel. 75152

SEMINARS SEMINAIRES

Pour de plus amples informations, prière de consulter
For full information on these seminars, please see
http://wwwas.cern.ch/Bulletin/Seminars/current.html

Tuesday 15 July

IT TRAINING TUTORIAL

14.00-16.00 hrs – IT Auditorium, bld. 31/3-004

Handling your mail with PINE

by Alessandro MIOTTO / CERN-IT

This tutorial will give you an introduction of how to handle your mail with the recommended mail agent "pine". Topics treated are how to read messages and store them in one of several folders, how to write messages, use aliases for mail addresses, and how to receive and send non-text material by mail in the MIME attachment format.
"pine" is also available on PCs, and it may provide a valid solution for those PC users who urgently require to have access to their mail from outside CERN. The tutorial will highlight the platform-independence of this tool.

Wednesday 16 to Friday 18 July

RD45 WORKSHOP

Entire workshop takes place in bld.160/1-009

09.00 Replication (DRO) Tests
09.30 DRO contd.
10.00 FTO (Partitions)
10.30 Schema Evolution
11.00 Meta Data
11.30 Aziza tests
12.00 CMS: calibration DB

14.00 V5 Beta test - first results
14.30 Java binding - first results
15.00 Named schema, type # tests
15.30 Pers./Trans. Ref tests
16.00 Enhancement Requests

16.30 Objy/HPSS news
17.00 HPSS@CERN: update

Thursday 17 July

09.00 TRW
09.30 ATLAS
10.00 CMS: analysis chain prototype
10.30 CMS: clustering strategies
11.00 ALICE
11.30 BaBar
12.00 STAR/Phenix

14.00 CDF
14.30 AMS
15.00 TagDB
15.30 GEANT-4 Alpha release
16.00 Caltech
16.30 COMPASS requirements
17.00 NA45
17.30 NA48

Friday 18 July

09.00 CLHEPDB
09.30 HepODBMS.h
10.00 HepODBMS.h - CMS input
10.30 cont.
11.00 Requirements for Milestone 1
11.30 M1 requirements: ATLAS, CMS etc.
14.00 RD45 status: progress on
14.30 Recommendations & milestones
17.00 Workshop Summary

Wednesday 16 July

THEORETICAL SEMINAR

At 14.00 hrs – TH conference room

Ultrahigh energy cosmic rays: do they require physics beyond the standard model?

by Glennys FARRAR / Rutgers University

I survey information on the handful of cosmic ray events with energies above the Greisen-Zatsepin-Kuzmin bounds (~ 5 10^{19} eV). I focus particularly on the difficulties of accounting for the very highest energy one (3 102^{0} eV) with a known particle as the primary. Features of new physics which would naturally account for such events is discussed.

Wednesday 16 July

CERN HEAVY ION COLLOQUIUM

at 14.30 hrs – Conference Room, bld. 40/S2-A01

Shadowing in pion intensity interferometry

by Tetsuo MATSUI

Strong pion source, such as a quark-gluon plasma droplet, temporarily formed in the course of ultrarelativistic heavy ion collision becomes also a strong pion absorber, and thus may cast its shadow on the path of an outgoing pion emitted from its surface. I will discuss how such effect may be seen in pion intensity interferometry.

Information http://wwwinfo.cern.ch/a/alicedoc/www/chic/
Organisers: Y. Foka and C. Lourenço

Thursday 17 July

CERN ARCHIVE SEMINAR

10.00-12.00 hrs – IT Auditorium, bld. 31/3-004

Archiving policies and practices in US research laboratories and at CERN

by Joan WARNOW-BLEWETT / Assistant Director of AIP, Center for History of Physics, College Park, USA and Roswitha RAHMY / CERN Archivist

The seminar is divided into three main topics :

1. Archival issues in scientific laboratories and high-energy physics collaborations ;
2. Archiving at CERN ;
3. Archiving practices in US laboratories and at CERN (new Department of Energy (DOE) recommendations on appraisal of documents, etc).

Mrs. J. Warnow-Blewett is the initiator and leader of several studies on archival issues in US research laboratories and thus has an excellent overview and expertise in this field.

- Are you interested in learning about the Organization's archive ?
- Are you retiring or departing from CERN in the near future ? Have you documents or files of interest to the CERN Archive ?
- Are you involved in archiving in your Division or Experimental Collaboration ?

If you have answered yes to any of the above questions then the CERN Archive strongly encourages you to join Joan Warnow-Blewett for this practice orientated seminar. Sufficient time is foreseen for questions and proposals from the attendees.

Thursday 17 July

CERN COLLOQUIUM

at 16.30 hrs – Auditorium*

Superfluidity in Helium 3

by R.C. RICHARDSON / Cornell University, USA
D.D. OSHEROFF / Stanford University, USA
D.M. LEE / Cornell University, USA
1996 Nobel Laureates

16.30–17.00 hrs

The Discovery of Superfluid 3He

by Robert C. RICHARDSON

Superfluid $_3$He was found through an accident. The transition was discovered in some pioneering cryogenic experiments and was originally mis-identified as the state of nuclear magnetic order in solid $_3$He. Subsequent NMR experiments, including an early version of MRI, revealed that liquid $_3$He undergoes a surprising pairing transition. The superfluid state is similar to superconducting state in metals but with an odd value of the pair angular momentum. The cryogenic techniques and early experiments will be described.

17.00–17.30 hrs

Superfluidity in $_3$He: The Discovery Through the Eyes of a Graduate Student

by Doug D. OSHEROFF

The speaker will recount the activities during a seven month period in which, as a graduate student, he participated in the discovery of three superfluid phases of liquid $_3$He. At the time, this discovery was the 'holy grail' of low temperature physics, yet, even after the final experiment, the three researchers were reluctant to identify these as BCS states, so unusual were the properties of the ordered states which they had observed.

17.30–18.00 hrs

Significance of Superfluid Helium 3 Research to Other Branches of Science

by David M. LEE

The superfluid phases of liquid helium 3 are important examples of non s-wave BCS pairing. The order parameters of these more complex pairing states possess internal degrees of freedom which lead to collective mode and soliton phenomena in addition to ordinary superfluid behavior. The relation of superfluid helium 3 to other systems in which non s-wave pairing plays a role will be discussed. Examples include high temperature superconductivity, heavy Fermion superconductivity and the interiors of neutron stars. The possible role of superfluid helium 3 as a model system for the early universe will be discussed briefly.

** Tea and coffee will be served at 16.00 hrs.*

Friday 18 July

COMPUTING COLLOQUIUM

at 14.00 hrs – Auditorium

Using the ACE Framework and Design Patterns to Develop Object-Oriented Communication Software

by Douglas C. SCHMIDT / Washington University

Developing extensible communication software that effectively utilizes concurrency on multi-processor platforms is hard. This talk explains how the ACE network programming toolkit can be used to simplify the development of concurrrent and distributed object-oriented communication software. A novel aspect of ACE is its use of design patterns to integrate advanced OS mechanisms (such as multi-threading), flexible higher-level distributed object computing middleware (such as DCOM and CORBA), and efficient low-level network programming mechanisms (such as sockets).

This talk describes the software architecture and key components in ACE. In addition, it illustrates a number of strategic design patterns that are essential to develop complex communication software systems. Relevant technical papers are available as:
http://www.cs.wustl.edu/~schmidt/TAPOS-95.ps.gz
http://www.cs.wustl.edu/~schmidt/COOTS-96.ps.gz
http://www.cs.wustl.edu/~schmidt/HPL.ps.gz

Douglas C. Schmidt is a faculty member at Washington University. He has successfully applied patterns-based software techniques in large-scale projects involving telecommunications switch management, network management for mobile communications systems, and electronic medical imaging systems on high-speed ATM networks. Douglas C. Schmidt has published widely in IEEE, ACM, USENIX, and IFIP technical journals and conferences. He is the chief architect and implementor of the ACE network programming toolkit, which is a widely used C++ framework for developing object-oriented communication software.

Friday 18 July

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

The running of the b-quark mass from Lep Data

by G. RODRIGO / Universität Karlsruhe

Last results on next-to-leading order QCD corrections to three jet heavy quark production in e^+e^- collisions, including quark mass effects, are presented. The extraction of the b-quark mass from LEP data is considered and the first experimental evidence for the running of a quark mass is discussed.

Monday 21 July

COSMOLOGY MEETING

at 14.00 hrs – TH Conference Room

Parametric resonance inflaton decay and supersymmetry

by Bruce CAMPBELL / University of Alberta, Edmonton

Recently, analysis indicates that if the inflaton is coupled to bosonic decay fields with a coupling constant above $0(10^6)$, then post-inflationary reheating occurs by parametric resonance decay of the inflaton, leading to abrupt and efficient reheat. After reviewing the analyses that lead to this picture of inflaton decay, we discuss the modifications of this picture that occur if the decay product fields themselves display final-state self-interactions of moderate strength, such as gauge interactions. Finally, we discuss the challenges this presents for supersymmetric theories of nature, and in particular analyze the limits on parametric resonance decay which arise from limits on the cosmological production of gravitinos during reheat.

Monday 21 July

PPE SEMINAR

at 16.30 hrs – Auditorium*

Further evidence for neutrino oscillations from LSND: the $\nu_\mu \rightarrow \nu_e$ decay-in-flight channel

by Ion N. STANCU / University of California, Riverside

A search for $\nu_\mu \rightarrow \nu_e$ oscillations has been conducted at the Los Alamos Meson Physics Facility using ν_μ from π^+ decay in flight. An excess in the number of beam-related events from the $\nu_e C \rightarrow e^- X$ inclusive reaction is observed. The excess is too large to be explained by normal ν_e contamination in the beam at a confidence level greater than 99%. If interpreted as an oscillation signal, the observed oscillation probability of $(2.6 \pm 1.0 \pm 0.5) \times 10^{-3}$ is consistent with the previously reported anti-$\nu_\mu \rightarrow$anti-ν_e oscillation evidence from LSND.

**Tea & coffee will be served at 16.00 hrs.*

Tuesday 22 July

IT TRAINING TUTORIAL

14.00-16.00 hrs – IT Auditorium, bld. 31/3-004

Basic Concepts in Object Oriented Programming

by Raul RAMOS-POLLAN / CERN-IT

This tutorial presents a simple explanation of the fundamental ideas behind the so-called Object Oriented Paradigm. With a general approach, it will provide you with the basic understanding to be able to think OO and learn OO languages and techniques. Aspects like maintenance and reuse of code, quality, and large projects design and implementation will be discussed within the OO framework, and some of the reasons behind such benefits will be oulined.
The talk will be general enough not to require any previous knowledge of any programming language but some insight in software development would be convenient. In the same way, the talk will give you the basics to learn any OO based methodology or language.

Tuesday 22 July

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Observation of threshold effects in J/psi production in Pb-Pb interactions at 158 GeV/c per nucleon

by Louis KLUBERG / Ecole Polytechnique, Palaiseau

Experiment NA50 studies the production of muon pairs from vector mesons, Drell-Yan and other processes in Pb-Pb interactions at the CERN SPS. It extends the search for Quark Gluon Plasma formation in nucleus-nucleus interactions started by experiment NA38 with lighter ion beams. The new results obtained by experiment NA50 from the most recent data confirm the "anomalous" J/psi suppression observed earlier. Moreover, these results show striking new features. The J/psi production rate is as expected from "normal" nuclear absorption for the most peripheral reactions but exhibits significant threshold effects when the centrality of the reaction increases.

**Tea & coffee will be served at 16.00 hrs.*

Thursday 24 July

LIBRARY SCIENCE TALKS 1997

at 10.00 hrs – TH Auditorium

Inside Physical Review Letters and the Electronic Publishing Frontier

by Robert GARISTO / Physical Review Letters

Western Europe now submits more papers to our journals than any other geographic region, including North America. I will explain how things work behind the scenes at Physical Review Letters, and show some interesting correspondence we have received for illustration. I will also discuss our electronic journals, other electronic projects, and future plans.

Friday 25 July

IT TRAINING TUTORIAL

10.00-12.00 hrs – IT Auditorium, bld. 31/3-004

C++ Techniques I
Understanding a Baroque Language

by Christoph VON PRAUN

The programming language C++ offers a variety of new features in addition to concepts it inherited from traditional C. For the C++ newbie, this overwhelming variety often leads to confusion and means a significant barrier to all those who want to start programming with C++.
The lecture demonstrates how conventional programming concepts of the procedural language C are seamlessly extended to make C++ an object-oriented language. The talk puts evidence on the fact that the understanding of basic C++ features is sufficient to follow an object-oriented programming paradigm with C++.
The knowledge of the programming language C eases the understanding of the talk.

SUMMER STUDENT LECTURES

DATE	TIME	LECTURER	TITLE
Mon. 14 July	09.15	E. Lillestøl	Basic Concepts in Particle Physics (2/4)*
	10.15	R. Kleiss	Fundamental Concepts of Particle Physics (3/6)
	11.15	————	Discussion Session
Tue. 15 July	09.15	H.J. Hilke	Particle Detectors (3/5)
	10.15	E. Lillestøl	Basic Concepts in Particle Physics (3/4)*
	11.15	R. Kleiss	Fundamental Concepts of Particle Physics (4/6)
Wed. 16 July	09.15	H.J. Hilke	Particle Detectors (4/5)
	10.15	E. Lillestøl	Basic Concepts in Particle Physics (4/4)*
	11.15	R. Kleiss	Fundamental Concepts of Particle Physics (5/6)
Thu. 17 July	*09.15*	*H.J. Hilke*	Particle Detectors (5/5)
	10.15	M. Meddahi	Accelerators (1/7)
	11.15	R. Kleiss	Fundamental Concepts of Particle Physics (6/6)
Fri. 18 July	09.15	M. Peskin	(SM-BSM) "Helicity as a Skeleton Key to Particle Physics" (1/11)
	10.15	————	Discussion Session
	11.15	————	Discussion Session

**** For non-physics students***

Next week

Mon. 21 July	09.15	M. Peskin	(SM-BSM) "Helicity as a Skeleton Key to Particle Physics" (2/11)
	10.15	M. Meddahi	Accelerators (2/7)
	11.15	P. Mato Vila	Trigger and Data Acquisition (1/3)
Tue. 22 July	09.15	M. Peskin	(SM-BSM) "Helicity as a Skeleton Key to Particle Physics" (3/11)
	10.15	M. Meddahi	Accelerators (3/7)
	11.15	P. Mato Vila	Trigger and Data Acquisition (2/3)
Wed. 23 July	*09.15*	M. W. Krasny	Deep Inelastic Lepton Scattering (1/3)
	10.15	M. Meddahi	Accelerators (4/7)
	11.15	P. Mato Vila	Trigger and Data Acquisition (3/3)
Thu. 24 July	09.15	M. W. Krasny	Deep Inelastic Lepton Scattering (2/3)
	10.15	M. Meddahi	Accelerators (5/7)
	11.15	M. Meddahi	Accelerators (6/7)
Fri. 25 July	09.15	M. W. Krasny	Deep Inelastic Lepton Scattering (3/3) Seminar
	10.15	————	Discussion Session
	11.15	————	Discussion Session

These lectures are prepared for Summer Students but they are open to everyone at CERN. Many of these lectures treat topics at a general level, and are therefore a good opportunity to brush up on subjects outside the scope of your daily work.

All lectures are given in English and held in the Auditorium. The complete programme is available on:
WWW: http://www.cern.ch/CERN/Divisions/PE/HRS/Lectures

Personnel Division

INFORMATIONS GENERALES
GENERAL *INFORMATION*

Ordering information

Hard bound, complete set normal price: 670 CHF

Special CERN offer:

Volume 1	200 CHF
Volume 2	180 CHF
Volume 3	200 CHF
Vols 1+2+3	500 CHF

Please place your order before July 31st by using a bank bulletin:

CERN Bank Account No CO 148,556.0 (SBS) standard "libellé": "Payment re. History of CERN".

As soon as the books arrive, at the end of August, you will be notified by email.

"HISTORY OF CERN" AT REDUCED PRICE

The CERN Library is happy to announce that an arrangement has been made with Elsevier under which any person working at CERN can obtain a significant discount on the "History of CERN" volumes provided that we submit a bulk order. The first two volumes have been on the market for some time and the third volume has been published recently.

History of CERN, vol. 3

Edited by
J. Krige
Centre de Recherche en Histoire des Sciences et des Techniques, Paris.

Description The third volume covers the story of the history of CERN from the mid 1960s to the late 1970s.

The book is organized in three main parts. The first, containing contributions by historians of science, perceives the laboratory as being at the node of a complex of interconnected relationships between scientists and science managers on the staff, the users in the member states, and the governments which were called upon to finance the organization. Parts II and III include chapters by practising scientists. The former surveys the theoretical and experimental physics results obtained at CERN in this period, while the latter describes the development of the laboratory's accelerator complex and "Charpak" detection techniques.

SERVICE DES AFFAIRES SOCIALES

En raison d'un congé de longue durée, le Service des Affaires Sociales sera fermé au public l'après-midi, dès maintenant et jusqu'à la fin de l'année.

Division du Personnel
Tél. 74484

SOCIAL AFFAIRS SERVICE

Due to an absence on long-term leave, the Social Affairs Service will be closed to the public every afternoon from now until the end of the year.

Personnel Division
Tel. 74484

TRAVAUX SUR LES CONNEXIONS TELEPHONIQUES

Pour préparer l'extension du Foyer-CERN, des travaux seront exécutés sur les connexions téléphoniques du bâtiment 38 pendant les heures ouvrables des mardi 8 et mercredi 9 juillet, ce qui entraînera des perturbations dans les communications téléphoniques de ce bâtiment. Si un service était sérieusement perturbé par ces travaux, il est prié d'appeler le 72227.

Le Service Téléphone regrette ces inconvénients et vous prie d'accepter ses excuses !

Service Téléphone du CERN

TELEPHONE INTERVENTIONS

To prepare the extension of the CERN-Hostel work is being carried out on the telephone connections to Building 38 during the working hours starting Tuesday 8 and Wednesday 9 July. Telephone interruptions to and from this building will be unavoidable and any service being seriously inconvenienced by this work is kindly requested to call 72227.

Please accept our apologies for the inconvenience the work may cause !

CERN Telephone Service

CÂBLES ET MATÉRIAUX EXEMPTS D'HALOGÈNE

Le récent incendie au SPS a clairement démontré la proportion des dégâts constatés lorsque des câbles au PVC sont impliqués. C'est pourquoi il convient de rappeler que l'Instruction de Sécurité 23 Rev.2 (disponible auprès du Secrétariat TIS, tél. 75097), interdisant l'emploi des câbles au PVC a été éditée il y a déjà 13 ans, et qu'elle a été appliquée avec succès tout au long de la construction de la machine et de la plupart des expériences LEP. L'emploi de PVC a également été interdit à DESY pour la construction de la machine HERA et de ses expériences. Depuis 1988 des câbles sans halogènes sont produits par l'industrie des pays membres et sont disponibles dans les Magasins CERN. L'expérience a montré que, lorsque des études de marché et des demandes d'offres spécifiques sont faites, les exigences dues à la sécurité ne font généralement pas augmenter les coûts.

En 1994 la Commission TIS a nommé M. Tavlet (tél. 73717) Contrôleur des câbles et la Division des Finances lui soumet toutes les commandes de câbles pour contrôle et approbation. On peut également s'adresser à lui en cas de doute sur la conformité des matériaux ou la réutilisation d'anciens équipements.

Afin d'éviter tout problème provenant de matériel ou d'équipement non conforme aux règles de sécurité du CERN, les informations suivantes sont rappelées:

1. Réutilisation d'anciens câbles au PVC

1.1 La politique du CERN est d'éliminer tous les anciens câbles au PVC, comme les Magasins du CERN le font depuis déjà neuf ans.

1.2 Une dérogation ne peut être autorisée que par le chef de la division concernée en consultation avec le Chef de la Commission TIS. Les critères pour une dérogation éventuelle sont basés sur le bon sens et des raisons d'économie.

2. Nouvelles installations

2.1 L'isolation de tous les nouveaux câbles, et en fait de tous les fils électriques commandés pour une nouvelle installation, sera exempte d'halogène. Ceci s'applique aux nouveaux câblages et fils électriques à installer dans les tunnels, galeries, etc., qui contiennent déjà des câbles au PVC. L'emploi de matériel contenant du PVC ou autre halogène pour des tubes, supports, entretoises, etc., est également interdit.

2.2 Une dérogation ne sera accordée qu'exceptionnellement et doit être justifiée par des raisons techniques et de bon sens. L'ignorance des règles de sécurité du CERN, une demande urgente sans calendrier établi ou l'argument que les matériels non conformes peuvent être obtenus à meilleur prix, ne seront pas acceptés comme excuse pour une dérogation.

Il est très important que cette information soit diffusée le plus largement possible auprès des instituts extérieurs participant aux expériences du CERN.

TIS/DI

HALOGEN-FREE CABLES AND MATERIALS

The recent fire at the SPS has clearly demonstrated the proportion of damage if PVC cables are involved. It is therefore reminded that Safety Instruction 23 Rev.2 (available from the TIS Secretariat, tel. 75097), which forbids the use of PVC cables, was issued 13 years ago and has been successfully applied throughout the construction of the LEP machine and most of the LEP experiments. The use of PVC has also been forbidden at DESY for the construction of the HERA machine and experiments. Since 1988, cables without halogens are readily available from the industry in the Member States and in the CERN stores. Experience has shown that, when the proper market surveys and price enquiries are made, these safety requirements often do not increase the costs.

TIS Commission has appointed in 1994 M. Tavlet (tel. 73717) as cable controller to whom Finance Division submits all cable orders for checking and approval. He can also be consulted in the case of doubt on the conformity of materials and the re-use of old equipment.

In order to avoid problems arising from material and equipment which does not conform to CERN safety rules, the following information is repeated below :

1. The re-use of old PVC cables

1.1 CERN's policy is to eliminate old PVC cables, as was done in the CERN stores already nine years ago.

1.2 A derogation can only be authorised by the leader of the Division concerned in consultation with the Leader of the TIS Commission. The criteria for a possible derogation are based on common sense and reasons of economy.

2. For new installations

2.1 The insulation of all new cables and, in fact, all electrical wiring ordered for any new installation work shall be halogen-free. This shall include new cabling or wiring to be installed in tunnels, galleries, etc., which already house PVC cables. The use of PVC or other halogen containing materials for tubing, supports, spacers, etc., is not allowed either.

2.2 A derogation will only be given exceptionally, to be justified by technical reasons and common sense. Unawareness of the CERN safety rules and urgent requests without proper forward planning, or the argument that non-conforming materials can be obtained at lower price, will not be accepted as an excuse for a derogation.

It is very important that this information is also diffused as widely as possible within outside Institutes participating in CERN experiments.

TIS/DI

INFORMATION

Les informations paraissant sous cette rubrique sont publiées sous la seule responsabilité de l'Association du personnel du CERN.

The information presented under this heading is published under the sole responsibility of the CERN Staff Association.

Association du personnel CERN

Staff association CERN

STAFF_ASSOCIATION@MACMAIL.CERN.CH

Adresse AP sur le WEB
http://www-staff-assoc.cern.ch/

REUNIONS PUBLIQUES

Les prochaines réunions publiques d'information et d'échange d'opinions avec l'ensemble du personnel auront lieu dans la deuxième quinzaine de septembre, sous forme de réunions par Division.

D'ici là, la procédure de mise en œuvre du programme de recrutement, financé à l'aide de contributions volontaires du personnel à un compte d'épargne temps libre, aura été établie entre la Direction et l'Association du personnel; elle vous sera exposée clairement.

PUBLIC MEETINGS

The next public information meetings for the CERN staff will take place during the second half of September and will be in the form of divisional meetings.

At that time we will be in a position to explain the implementation procedure of the recruitement programme, financed by volontary contributions of the staff to a saved leave account which will have been established following discussions which will take place during summer between the Management and Staff Association.

* * *

Shopping guide

The 1997 edition of the Staff Association Shopping Guide has now been published and will soon be distributed to members of the Staff Association and members of the CERN Pensioners Association. If you are a member of the Staff Association and you have not received your Shopping Guide by the 18 July, please contact the Staff Association Secretariat, tel. 74224 or 72819.

Guide d'Achats

Le Guide d'Achat de l'Association du personnel, edition 1997, vient de sortir et sera bientôt distribué aux membres de l'Association et aux membres du Groupement des Anciens du CERN. Si vous êtes membre de l'Association et que vous n'ayez pas reçu votre Guide d'Achats au 18 juillet, n'hésitez pas de contacter notre Secrétariat, tél. 74224 ou 72819.

CLUBS

CAR CLUB

Technical and Anti-Pollution inspections

May we remind you that for Swiss-registered cars, the **Garage de Champs Fréchêts** in Meyrin will do the anti-pollution controls for the same price as last year.

Before you leave for your summer holidays and if you suspect your car is a little tired, you should think about having the **brakes** and **shock absorbers** tested. Make use of the special deal being offered to our members by **Technomag** (our after market parts supplier).

To make use of these reductions, you must first pick up a voucher from the car club office.

WWW

ALSO, before you leave, check out the French motorways WEB sites at www.autoroutes.fr OR www.saprr.fr for local info.

SAFETY ON LONG JOURNEYS

- Motorways are the *safest* while small country roads are the least safe.
- Get into the habit of stopping every two hours of continuous driving.
- If you eat while driving, it is better to eat a small quantity of food often, rather than all in one go - it will tend to make you sleepy.
- Never drive with under-inflated tyres.

HAPPY MOTORING !

Vélo Club CERN

Vélo de route:

Samedi **12 Juillet**: nous nous promènerons à travers un bout des forets étendus du Jura. La route vallonnée, longue de 70 km, fera monter la dénivellation à 1135 mètres, la plus importante du calendrier. Un raccourci est prévu pour les cyclistes qui aiment se balader dans la nature mais qui ont perdu un peu la forme pendant ces dernières semaines pluvieuses.

Pour ceux qui le désirent, pique-nique à **Lajoux** à **11h30.** Pour les autres, rendez-vous à **13h00** au centre du village.

Samedi **19 Juillet** nous vous proposerons "le tour du Mont Salève", sur 76 km. La dénivellation totale est de 667 mètres. Départ à **13h00** du **Parking des Drapeaux** à l'entrée du CERN.

VTT:

Dimanche **13 Juillet**: notre randonnée nous amène vers le Mont Mussy et le Creux de l'Envers. La distance est estimée à 30 km, la dénivelllation à 947 m. La sortie est d'un niveau plutôt difficile. Départ à **9h00** de la **Mairie de Divonne.**

Certains magasins de sport accordent des réductions de prix intéressantes si vous présentez votre carte de membre. Profitez-en à ce début des vacances!

SOFTBALL

First Place!
The CERN Softball Club finds itself tied for first place in the Geneva Slow-Pitch Softball League with arch-rival Rowdies. These two teams will battle it out for the top spot this Sunday at the Marine Field. Don't miss the action! For a map to the field and the season's schedule, see the softball club home page listed below.

Softball Club Barbeque
The third annual Softball Club Barbeque Blow-Out and Benefit is this Saturday starting at 18:00 at the Opal BBQ Pit. Contact us if you would like to eat, drink and have a wild time with the legendary CERN team!

Recruitment
The Geneva Slow-Pitch Softball League is looking to expand. If you would like to play on one of the existing teams, including CERN, or start you own team, give us a call or just come out to one of our games. Novice players are especially welcomed and no equipment is needed.

Hardronic Festival
The CERN Softball Club together with many other CERN clubs will be participating in this year's Hardronic Festival. This gala rock, jazz and blues festival will be held Saturday afternoon and evening, July 19, in back of CERN Restaurant 1. Don't miss this exciting CERN Musiclub Event, featuring such great bands as the Bedrock Blues Band, SMC2, Les Horribles Cernettes and Crosstalk! For more information, see the Hardronic Home Page:(http://sgvenus.cern.ch/musiclub/hardronic97/festival.html.

The Club
The CERN Softball Club plays slow-pitch softball from March to September against other teams from the Geneva area. For more information, contact us:

E-Mail: softball.club@cern.ch
WWW: http://softball.cern.ch
Usenet: cern.softball
Phone: +41.22.767.6965

"If people don't want to come out to the park, nobody's going to stop them. Yogi Berra

YACHTING

C'est l'été!
Summer's here!

Samedi, 19 Juillet*) / *Saturday, July 19)**

REGATE MENSUELLE
MONTHLY REGATTA

12 h 30 à 13 h 30 : Inscriptions/*Registration*
14 h 30 à 18 h 00 : Régate/*Regatta*

Première participation de nos deux nouveaux Catamarans!!
First participation of our two new Catamarans!!

Venez TOUS!!! *Everybody is welcome!!*

Après la régate, si vous le désirez, vous pouvez aller au Cern, pour vous défouler au

1997 CERN HARDRONIC FESTIVAL

After the regatta, if you like, you can go back to Cern, not to work, but to enjoy yourself at the

1997 CERN HARDRONIC FESTIVAL

*) remplace la régate annulée du 5 juillet
/replaces the regatta of 5 July that was cancelled

CINE-CLUB CERN

JEUDI 17 JUILLET 1997, à 20h30

THURSDAY 17 JULY 1997, at 8.30 p.m.

Amphithéâtre Bâtiment Principal / Main Auditorium

Dead Man

de / of J. Jarmusch

Avec / with : Johnny Depp, Robert Mitchum

Ce que l'on aime chez Jarmusch, c'est l'absurde ou la noirceur côtoie constamment l'humour.

Après un voyage dans un de ces trains mystérieux, Bill Blake (Johnny Depp) débarque dans un village, le plus crasseux des villages du vieil Ouest Américain. La place de comptable est déjà prise, et il tue, sans le faire exprès, le fils de son ex-futur employeur (Robert Mitchum). Celui-ci va engager trois tueurs à la poursuite de Bill.

Bill fera des rencontres: des pionniers dont l'un est déguisé en femme, mais surtout sa route va croiser celle d'un indien baptisé Nobody (Personne). Nobody est cultivé, sa vie est un roman et son héros le poète William Blake ... comme Bill Blake justement.

"Trip" initiatique, western à l'humour iconoclaste, ce superbe film dynamite les mythes du vieil Ouest.

What is so likeable about Jarmush is that the absurd and murky is always accompanied by humour.

After a long journey in some mysterious train, Bill Blake (Johnny Depp), arrives in what must be the most squalid settlement of the old West. The job of accountant that he was going to fill has already been taken. Unintentionally he kills the son of his intended employer (Robert Mitchum) who hires three killers to hunt him down.

On the run, Bill meets many characters: pioneers, one of whom is disguised as a woman, and an indian nicknamed Nobody. Nobody is cultivated; his life is a storybook and his hero the poet William Blake ... just like Bill Blake.

A journey of initiation, a Western with pernicious humour, this superb film explodes the myths of the old Wild West.

Version originale Anglais sous-titrée Français-Allemand
English dialogue with French and German subtitles

Entrée/Entrance CHF 8.-

COOPERATIVES

COOPIN (Bât. 563)

Heures d'ouverture du magasin:
du lundi au vendredi de 13h00 à 16h30
tel : 72864 – 73637
fax : 782 07 70

Rayons: parfumerie, droguerie, vin, alimentation, tabac, calculatrice, horlogerie, photo, jouet, textile, jumelles, cassettes...

Nouveau chez CASIO
Digital Diary SF-5780 - 256 KB. Calculatrice scientifique graphique FX-7400G, d'autres modèles en stock.

Nouveauté Wenger Sport
Couteau SWISSROLLER pour les passionnés de roller. Offre spéciale limitée: couteau vendu dans un coffret **avec une casquette gratuite.**

Anti-Germ Traveller Kit
Le Kit de voyage de SWISSCLEAN est la première trousse de désinfection "high-tech" pour le voyageur.

Anti-Moustique
Appareil électronique à modulation de fréquence silencieux (développé en Suisse). Inoffensif pour l'être humain et les animaux. Ne se jette pas; il suffit de changer la pile après environ 1 an d'utilisation.

SUPER ACTION LINDT
Ex.: Pralinés assortis boîte de 250 g: CHF 7.-
Boules Lindor boîte de 250 g, CHF 5.-

En stock
Chronomètres CASIO premier prix: CHF 31.60
Réveil radio piloté Hotline HL 212: CHF 44.-
Chocolat Toblerone 400 g et 100 g
Rasoirs BRAUN
Appareils photo OLYMPUS

Notre service réparation est fermé jusqu'au

vendredi 25 juillet 1997

INTERFON

(Bât. 563)

MARCHE MATECO-SAMSE-BOITE A OUTILS

Que vous habitiez dans le pays de Gex, ou en Haute-Savoie, vous pouvez vous fournir de tous types de matériaux de construction, aménagement et décoration de la maison.
MATECO-BOITE A OUTILS : Zone artisanale de l'Allondon à Saint Genis Pouilly.
MATECO-BOITE A OUTILS : Annemasse, St.ÊJulien, Annecy.

OPERATION PROMOTIONNELLE jusqu'au 30 août sur les boîtes à outils dans tous les rayons: peinture, outillage, décoration, sanitaire, jardin.

OPERATION PROMOTIONNELLE sur les carrelages avec des affaires exceptionnelles chez Mateco, ainsi que sur les abords de la maison jusqu'à fin juillet.

La réduction INTERFON et les promotions ne sont pas cumulables, mais, néanmoins, utilisez votre carte INTERFON pour tous vos achats et ne payez pas directement les fournisseurs.

RESTAURANTS

Plats conventionnés (déjeuner) semaine du 14 juillet

	No 1 – COOP Bât. 501 – Site Meyrin	No 2 – DSR Bât. 504 – Site Meyrin	No 3 – Gén. de Rest. Bât. 866 – Site Prévessin
Lundi-vendredi Samedi Dimanche	**Heures d'ouverture:** 07h00 – 01h00 07h00 – 23h00 07h00 – 23h00 **Repas servis:** 11h30–14h00 18h00–20h00 **Prix (FS):** a) 7.40 FS b) 8.70 FS	**Heures d'ouverture:** 06h30 – 18h00 Fermé sauf groupes Fermé **Repas servis:** 11h30–14h00 **Prix (FS):** a) 7.60 FS b) 8.70 FS	**Heures d'ouverture:** 07h00 – 18h00 Fermé Fermé **Repas servis:** 11h30–14h00 **Prix (FF):** a) 21.50 FF b) 25.00 FF
Lundi	a) Steak de veau haché Cornettes au beurre Légumes allégés b) Croustilles de cabillaud Pommes nature Tomate	a) Tranche de foie de bœuf à l'anglaise - Pâtes au beurre - Salade verte b) Steak haché d'agneau à la crème d'ail - Polenta Tomate au four *TOUS LES JOURS GRILLADES SUR LA TERRASSE*	a) Beef steak b) Filet de hoki pané sauce tartare Pommes frites Choux de Bruxelles printanière
Mardi	a) Blanc de poulet aux champignons Riz Pois mangetout b) Bœuf bourguignon Pommes mousseline Carottes Vichy	a) Nuggets de poulet sauce au curry ou tartare Pommes rissolées Salade verte b) Rôti de porc à la moutarde Risotto aux champignons Petits pois aux oignons	a) Gratin de jambon à la tomme noire b) Filet de cabillaud Pâtes au beurre Salade composée Carottes *ENTRECÔTE AU POIVRE*
Mercredi	a) Saucisse de veau Pommes rissolées Jardinière de légumes b) Osso buco de porc Riz au safran Broccoli	a) Quenelles de brochet sauce Nantua Riz pilaf Salade verte b) Cuisse de poulet basquaise Pommes darphin Fenouil braisé	a) Saucisse de Toulouse b) Cuisse de canette forestière Haricots à la tomate Côtes de bettes au jus Endives braisées
Jeudi	a) Sauté d'agneau Flageolets Haricots verts b) Rôti de porc Spirettes Choux rouges	a) Gratin de pâtes au jambon et champignons Salde verte b) Sauté de veau aux trois poivres Pommes lyonnaises Courgettes sautées	a) Normandin de veau poêlé avec œuf b) Beignets de l'océan Riz Épinards Tomate grillée
Vendredi	a) Paupiette de volaille Spirettes Baby carottes b) Darne de saumon Pommes nature Côtes de bettes	a) Bami-goreng de poulet Riz Thaï Salade verte b) Médaillon de mostelle sauce au cerfeuil Pommes persillées Épinards en branches	a) Feuilleté de poisson b) Poulet à l'estragon Pommes vapeur Ratatouille Haricots beurres *SAUCISSON LYONNAIS ET SES POMMES*

Fixed price main courses (lunch) week of 14 July

	No 1 – COOP Bldg. 501 – Meyrin Site	No 2 – DSR Bldg. 504 – Meyrin Site	No 3 – Gén. de Rest. Bldg. 866 – Prévessin Site
Monday-Friday Saturday Sunday	**Opening times:** 07h00 – 01h00 07h00 – 23h00 07h00 – 23h00 **Meals served:** 11h30–14h00 18h00–20h00 **Prices (CHF):** a) 7.40 CHF b) 8.70 CHF	**Opening times:** 06h30 – 18h00 Closed except for groups Closed **Meals served:** 11h30–14h00 **Prices (CHF):** a) 7.60 CHF b) 8.70 CHF	**Opening times:** 07h00 – 18h00 Closed Closed **Meals served:** 11h30–14h00 **Prices (FRF):** a) 21.50 FRF b) 25.00 FRF
Monday	a) Minced veal steak Buttered pasta Vegetables b) Fish fingers Boiled potatoes Tomato	a) English-style beef liver Buttered pasta Green salad b) Minced lamb steak with garlic - Polenta (corn-meal) - Baked tomato *EVERY DAY GRILLED MEAT ON TERRACE*	a) Beef steak b) Breaded fillet of hoki (fish) with tartar sauce French fried potatoes Spring Brussels sprouts
Tuesday	a) Chicken with mush-rooms Rice Snow peas b) Beef stew in red wine sauce Mashed potatoes Vichy carrots	a) Chicken nuggets with curry or tartar sauce Sautéed potatoes Green salad b) Roast pork with mustard sauce Rice with mushrooms Peas with onions	a) Baked ham with black tomme b) Fillet of cod Buttered pasta Mixed salad Carrots *GRILLED SIRLOIN STEAK WITH PEPPER*
Wednesday	a) Veal sausage Sautéed potatoes Diced vegetables b) Pork knuckle Rice with saffron Broccoli	a) Pike dumplings in Nantua sauce Pilaf rice Green salad b) Basque-style chicken leg Darphin potatoes Braised fennel	a) Toulouse-style sausage b) Leg of duck with mush-rooms Tomatoed green beans Swiss chard Braised chicory
Thursday	a) Lamb stew White beans Green beans b) Roast pork Pasta Red cabbage	a) Baked pasta with ham & mushrooms Green salad b) Veal stew with three pepper sauce Lyon-style potatoes Sautéed courgettes	a) Slice of veal with egg b) Fish fritters Rice Spinach Grilled tomato
Friday	a) Stuffed chicken slice Pasta Baby carrots b) Slice of salmon Boiled potatoes Swiss chard	a) Chicken bami-goreng Thaï rice Green salad b) Slice of brotule with chervil sauce Parsley potatoes Leaf spinach	a) Fish in puff pastry b) Chicken with tarragon Boiled potatoes Ratatouille Yellow beans *LYON-STYLE SAUSAGE*

Calendrier hebdomadaire 1997 Weekly Calendar

Lundi / Monday 14.7	Mardi / Tuesday 15.7	Mercredi / Wednesday 16.7	Jeudi / Thursday 17.7	Vendredi / Friday 18.7
09.15 A **SUMMER STUDENT LECTURE** Basic Concepts in Particle Physics (2/4) E. Lillestøl 10.15 Fundamental Concepts of Particle Physics (3/6) R. Kleiss 11.15 Discussion Session	09.15 A **SUMMER STUDENT LECTURE** Particle Detectors (3/5) H.J. Hilke 10.15 Basic Concepts in Particle Physics (3/4) E. Lillestøl 11.15 Fundamental Concepts of Particle Physics (4/6) R. Kleiss 14.00 IT* **IT TRAINING TUTORIAL** Handling your mail with PINE by Alessandro MIOTTO / CERN-IT	09.00 ➤ **RD45 WORKSHOP** *bld.160/1-009* 09.15 A **SUMMER STUDENT LECTURE** Particle Detectors (4/5) H.J. Hilke 10.15 Basic Concepts in Particle Physics (4/4) E. Lillestøl 11.15 Fundamental Concepts of Particle Physics (5/6) R. Kleiss 14.00 TH **THEORETICAL SEMINAR** Ultrahigh energy cosmic rays: do they require physics beyond the standard model? by Glennys FARRAR / Rutgers Univ. 14.30 ➤ **CERN HEAVY ION COLLOQUIUM** Shadowing in pion intensity interferometry by Tetsuo MATSUI *bld. 40/S2-A01*	09.00 ➤ **RD45 WORKSHOP** *bld.160/1-009* 09.15 A **SUMMER STUDENT LECTURE** Particle Detectors (5/5) H.J. Hilke 10.15 Accelerators (1/7) M. Meddahi 11.15 Fundamental Concepts of Particle Physics (6/6) R. Kleiss 10.00 IT* **CERN ARCHIVE SEMINAR** Archiving policies and practices in US research laboratories and at CERN by Joan WARNOW-BLEWETT / Assistant Director of AIP, Center for History of Physics, College Park, USA and Roswitha RAHMY / CERN Archivist 16.30 A **CERN COLLOQUIUM** Superfluidity in Helium 3 by R.C. RICHARDSON / Cornell Univ., USA, D.D. OSHEROFF / Stanford Univ., USA & D.M. LEE / Cornell University, USA 1996 Nobel Laureates	09.00 ➤ **RD45 WORKSHOP** *bld.160/1-009* 09.15 A **SUMMER STUDENT LECTURE** (SM-BSM) "Helicity as a Skeleton Key to Particle Physics" M. Peskin (1/11) 10.15 Discussion Session 11.15 Discussion Session 14.00 TH **MEETING ON PARTICLE PHYSICS PHENOMENOLOGY** The running of the b-quark mass from Lep Data by G. RODRIGO / Universität Karlsruhe 14.00 A **COMPUTING COLLOQUIUM** Using the ACE Framework and Design Patterns to Develop Object-Oriented Communication Software by Douglas C. SCHMIDT / Washington University
21.7	**22.7**	**23.7**	**24.7**	**25.7**
09.15 A **SUMMER STUDENT LECTURE** (SM-BSM) "Helicity as a Skeleton Key to Particle Physics" (2/11) M. Peskin 10.15 Accelerators (2/7) M. Meddahi 11.15 Trigger and Data Acquisition (1/3) P. Mato Vila 14.00 TH **COSMOLOGY MEETING** Parametric resonance inflaton decay and supersymmetry by Bruce CAMPBELL / University of Alberta, Edmonton 16.30 A **PPE SEMINAR** Further evidence for neutrino oscillations from LSND : the $\nu_\mu \rightarrow \nu_e$ decay-in-flight channel by Ion N. STANCU / University of California, Riverside	09.15 A **SUMMER STUDENT LECTURE** (SM-BSM) "Helicity as a Skeleton Key to Particle Physics" (3/11) M. Peskin 10.15 Accelerators (3/7) M. Meddahi 11.15 Trigger and Data Acquisition (2/3) P. Mato Vila 14.00 IT* **IT TRAINING TUTORIAL** Basic Concepts in Object Oriented Programming by Raul RAMOS-POLLAN / CERN-IT 16.30 A **CERN PARTICLE PHYSICS SEMINAR** Observation of threshold effects in J/psi production in Pb-Pb interactions at 158 GeV/c per nucleon by Louis KLUBERG / Ecole Polytechnique, Palaiseau	09.15 A **SUMMER STUDENT LECTURE** Deep Inelastic Lepton Scattering (1/3) M. W. Krasny 10.15 Accelerators (4/7) M. Meddahi 11.15 Trigger and Data Acquisition (3/3) P. Mato Vila	09.15 A **SUMMER STUDENT LECTURE** Deep Inelastic Lepton Scattering (2/3) M. W. Krasny 10.15 Accelerators (5/7) M. Meddahi 11.15 Accelerators (6/7) M. Meddahi 10.00 TH **LIBRARY SCIENCE TALKS 1997** Inside Physical Review Letters and the Electronic Publishing Frontier by Robert GARISTO / Physical Review Letters	09.15 A **SUMMER STUDENT LECTURE**Deep Inelastic Lepton Scattering (3/3) M. W. Krasny 10.15 Discussion Session 11.15 Discussion Session 10.00 IT* **IT TRAINING TUTORIAL** C++ Techniques I -- Understanding a Baroque Language by Christoph VON Praun

A Auditorium / bld. 500
Amphithéâtre / bât. 500

C Council Chamber / bld. 503
Salle du Conseil / bât. 503

TH Theory Conference Room / bld. 4
Salle Théorie /bât. 4

LHC LHC Auditorium / bld. 30, 7th floor
Amphithéâtre LHC / bât. 30, 7e étage

PS PS Auditorium / bld. 6, 2-024
Amphithéâtre PS / bât. 6, 2-024

DG 6th Floor Conference Room, bld. 60
Salle de conférence du 6e étage, bât. 60

M Microcosm Conference Room, bld. 33/R-09
Salle de Conférence Microcosm, bât. 33/R-09

SL SL Auditorium – Prévessin / bld. 864, 1st fl.
Amphithéâtre SL – Prévessin / bât. 864, 1er ét.

IT* IT Auditorium – bld. 31/3-004 & 5
Amphithéâtre IT – bât. 31/3-004 & 5
** Formerly CN*

➤ place as indicated
lieu selon indication

E ECP Conference Room, bld. 13/2-005
Salle de conférence ECP, bât. 13/2-005

Deadline for insertion : **Tuesday 12.00 hrs**
Staff Association : bld. 64/R-002, tel. 72819
Media & Publications (DSU) : bldg 50/1-034, tel. 73475
e-mail : *weekly_bulletin@macmail*
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Dernier délai pour insertions : **mardi 12.00 h**
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