

Conférence annuelle sur les Accélérateurs de Particules, PAC'97

Daniel Boussard, membre du CERN, a reçu le "United States Particle Accelerator School Prize for Achievement in Accelerator Physics and Technology" pour l'année 1997, au cours de la grande Conférence annuelle sur les Accélérateurs de Particules, PAC'97, qui s'est tenue à Vancouver du 12 au 16 mai. Boussard a reçu le prix pour sa "contribution originale dans les domaines des RF, de la dynamique longitudinale du faisceau et ses réactions, ainsi que pour la réalisation des systèmes d'accélération supraconductrice". Chandreshkhar Joshi de l'université de Californie à Los Angeles a partagé ce prix pour ses "expériences d'avant-garde sur l'accélération par ondes de battement dans le champ intense d'un plasma entretenu par laser".

Particle Accelerator Conference, PAC'97

CERN's Daniel Boussard receives the 1997 United States Particle Accelerator School Prize for Achievement in Accelerator Physics and Technology during this year's big Particle Accelerator Conference, PAC'97, held in Vancouver from 12 to 16 May. Boussard received the award for his "original contributions to the fields of RF, longitudinal beam dynamics, and feedback, and for the realization of superconducting acceleration systems". Chandreshkhar Joshi of the University of California at Los Angeles shared the award for his "pioneering experiments on high gradient, laser-driven, plasma beat-wave acceleration".



COMMUNICATIONS OFFICIELLES

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.

CIRCULAIRES ADMINISTRATIVES

- n° 2 - Avril 1997
Recrutement (Vacances d'emploi, candidatures, sélection) et période probatoire des titulaires
L'attention des membres du personnel est particulièrement attirée sur le § 19 de cette circulaire, qui annule et remplace le § 15 de la Circulaire administrative n° 9 (Rév. 1) de janvier 1996 intitulée "Types et durée des contrats des titulaires".
- n° 24 (Rév. 1) - Avril 1997
Foyers et classe de résidence
Ces circulaires ont été établies ou modifiées.
Des exemplaires sont disponibles dans les Secrétariats de Division.

N.B Les circulaires administratives et opérationnelles, de même que les listes à jour de ces dernières, sont accessibles pour consultation sur le serveur Novell SRV4_HOME, volume PE Division Data Disk.
Les fichiers Word se trouvent dans le dossier COM, sous-dossier Public.

Division du Personnel
Tél. 74128

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.

ADMINISTRATIVE CIRCULARS

- N° 2 - April 1997
Recruitment (Vacancies, applications, selection) and probation period of staff members
Staff members' attention is particularly drawn to § 19 of this circular, which cancels and replaces § 15 of Administrative Circular N° 9 (Rev. 1), dated January 1996, entitled "Types duration of contract of staff members".
- N° 24 (Rev. 1) - April 1997
Home station and residential category
These circulars have been drawn up or amended.
Copies are available in the Divisional Secretariats.

Note Administrative and operational circulars, as well as the lists of those in force, are available for consultation in the server Novell SRV4_Home, volume PE Division Data Disk.

The Word files are available in the folder COM, folder Public.

Personnel Division
Tel. 74128

SEMINARS SEMINAIRES

Monday 2 June

PPE SEMINAR

at 16.30 hrs – Auditorium*

Measurement of the W boson mass with D0

by Ulrich HEINTZ / FNAL

The D0 experiment at the Tevatron $p\bar{p}$ collider at Fermilab has collected about 100 pb^{-1} of data between 1992 and 1996. From this data set we have isolated large samples of W decays to electron-neutrino and Z decays to electron-positron. Using the Z decays for calibration, we are able to measure the mass of the W boson with very high precision. I shall describe this measurement and discuss its implications as a test of the Standard Model.

* Tea & coffee will be served at 16.00 hrs.

Tuesday 3 June

TECHNICAL PRESENTATION

at 09.30 hrs – IT Auditorium, bld. 31/3-004-5

A Complete EDA Tool Environment on Windows NT

by R. SCHMIDT / Viewlogic Systems,
Computer Controls SA

Viewlogic Systems is the leading supplier of complete multi platform EDA solutions for FPGA and ASIC design. The core of today's presentation is Workview Office, the advanced and sophisticated design environment on Windows NT including : Language Based Design for FPGA and ASIC development Design Management with Intelliflow, the intelligent design flow manager leading you step by step through your design Mixed Digital Simulation for powerful Co-Simulation of VHDL and Verilog Mixed analog Simulation with ViewSim and ViewSpice Static Timing Verification for High End FPGAs and ASIC vendors.

We invite you to join us in an interactive presentation and get the proof why « 2 of 3 FPGA designers choose Workview Office » (Source : Dataquest).

Information <http://www.viewlogic.com>

Organiser : S. Cannon / IT / 75036

Tuesday 3 June

ORACLE DEVELOPERS TECHNICAL SESSION

at 10.00 hrs – LHC Auditorium, bld. 30/7th floor

Quest Software Products

by Gert SANDER / Quest Software

This presentation will focus on some of Quest Software's products, namely:

1. Tuning suite

SQLab Tuning – the application tuning tool for identifying offensive sql statements and i/o bottlenecks. SQLab helps the developer during development sessions and the DBA during production time. SQLab shows the SQL statement and explain the plan for better tuning and understanding.

Monitor – the tool for performance monitoring and diagnostics. It pinpoints and corrects performance bottlenecks in the database.

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

Spacer – the tool for space management and object reorganisation for better performance.

SQLab Impact – the tool for analyzing application software. SQLab Impact gives a complete overview on the relation between database procedures, rules, programs and tables. It also points out, which procedures, programs or application call or are called by other procedures, programs or applications. SQLab Impact is the tool for developers, DBAs and QA.

2. Output Management

Vista Plus – the tool for ORLP - online report processing and management. Vista Plus supports the distribution of standard reports, helps to reduce time and waste of printed paper. Vista Plus allows the client to access and work on a report electronically.

3. High Availability

I/Watch – the tool for monitoring databases, networks and operating systems.

Shareplex UX – the replication tool for Oracle databases and file systems.

Organiser: P. Martel / EST

Tuesday 3 June

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Research on New Detectors

by Georges CHARPAK / Ecole Supérieure de Physique
et de Chimie Industrielle, PARIS

Research on detectors is mostly driven by specific needs in various fields.

A description will be given of detectors adapted to very high intensity accelerators, either for triggering on very rare events or for tracking and particle identification in a high rate environment.

Special emphasis will be given to a new detector "MICROMEGAS", which matches all requirements for operation at LHC. It opens also a new era of research in all domains requiring radiation localisation.

* Tea & coffee will be served at 16.00 hrs.

Wednesday 4 June

PS SEMINAR

at 11.00 hrs – PS Auditorium, bld. 6/2-024

A Non Local Wave Model for Particles and Fields (Part 2)

by Wolfgang SCHNELL / CERN-SL

A classical model of universe can be based on a Newtonian-Galilean system. Its inhabitants formed of waves experience special relativity and quantum mechanics. The essential features of the model will be introduced and it will be shown how mass spectra and classical field theory can be derived from first principles.

Organiser: B. Autin / PS

Wednesday 4 June

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

The origin of the Universe: conjectures vs. facts

by V. MUKHANOV / ETH, Zürich

I will summarize the status of inflationary cosmology. The definiteness of the most important predictions of inflation and confrontation of them with current and future observations will be analysed critically. Some open problems of inflationary cosmology will be discussed.

Thursday 5 June

LARGE HADRON COLLIDER COMMITTEE

Open Session (preliminary agenda)

at 09.00 hrs – Auditorium

09.00–10.30 ATLAS inner detector Technical Design Report
by A. Romaniouk, R. Nickerson, L. Rossi &
S. Haywood

10.30–11.00 *Coffee break*

11.00–12.30 ATLAS muon spectrometer Technical Design
Report
by W. Kozanecki, F. Linde, G. Mikenberg

12.30–14.00 *Lunch break*

14.00–15.00 CMS status report
by M. Della Negra

15.00–15.45 CMS magnet Technical Design Report
by A. Hervé

15.45–16.45 ATLAS magnet Technical Design Reports
by H. ten Kate

Thursday 5 June

MICROPROCESSOR USER'S MEETING

at 10.00–12.00 hrs – IT Auditorium, bld. 31/3-005

Preliminary Agenda:

- First Impressions with Motorola MVME2604 and
AIX 4.1.4(R5)
by Roberto Divia, ECP-ALD
- Evaluation of Windows NT on a VMEbus-based PC
Platform
by Louis Tremblet, ECP-FEX
- OS-9 Support at CERN: Current Situation
by Martin Merkel, IT-CE
- LynxOS: Current Situation and New Software
by Julian Blake, IT-CE
- Current and Future Activities of ECP-ESS
by Markus Joos, ECP-ESS

Organiser: M. Merkel / IT

Monday 9 & Tuesday 10 June

LHC++ WORKSHOP

IT Auditorium, bld. 31/3-004-5

Monday 9 June

10.00 Status of LHC++¹

11.00 Status of CLHEP²

12.00 Lunch

13.00 Histogram classes

14.00 Status of HepInventor

15.00 Status of HepExplorer³

16.00 Java Numerical Library

17.00 Java/C++ (Twin Peaks etc.)

Tuesday 10 June

09.00 ATLAS/CMS/OPAL presentations

10.00 Diffpack presentation

11.00 Diffpack Q&A

12.00 Lunch

13.00 GEANT-4/LUND++ update

14.00 Mathlib requirements

15.00 STABLE update

16.00 Minuit++ kickoff

17.00 Workshop summary

1) NAG/TGS review boards, GNATS, distribution, licenses, NT,
LCB etc.

2) installation on Unix & NT, feedback from V1.0 release, new
classes, documentation etc.

3) including feedback from NAG on CERN's requirements/
wishlist

4) plans/results from using (parts of) LHC++

Information [http://wwwinfo.cern.ch/asd/lhc++/workshops/
june97_workshop.txt](http://wwwinfo.cern.ch/asd/lhc++/workshops/june97_workshop.txt)

Tuesday 10 June

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Neutrino Oscillations; Summary of the Fermilab Fixed-Target Workshop, May 1997

by Juan Jose GOMEZ CADENAS / CERN-PPE

A number of recent experimental results can be interpreted in terms of neutrino oscillations, including the solar and atmospheric neutrino deficit and a positive result from the LSND experiment. On-going experiments (Super-Kamiokande, KARMEN, CHORUS and NOMAD) as well as others soon to be commissioned (CHOOZ, PALO VERDE) are expected to shed more light on this issue. Meanwhile, a new generation of long and short base line neutrino oscillation experiments is being discussed both at CERN and at Fermilab.

In the recent FNAL workshop on the physics prospects with the forthcoming Main Injector (May 1-4 1997), the status of the field of neutrino oscillations was reviewed, with updated results from various current experiments, including CHORUS, NOMAD, LSND and Super-Kamiokande. The various proposals for next-generation short and long base line experiments both at CERN and at FNAL were extensively discussed.

In this talk, a view of the state of the art of the field and the future prospects is presented.

Wednesday 11 June

COMPUTING SEMINAR

at 16.00 hrs – IT Auditorium, bld. 31/3-005

The Linux System and its Community

by Jes SORENSEN / CERN-IT/PDP

Linux is a free UNIX clone originally developed by the Finnish student Linus Torvalds for the x86. It is estimated that there are now 4-5 million active Linux users and the number is still growing. This talk will give an introduction

to Linux and the Linux community. It will focus on the available features, how to communicate with and participate in the Linux community and how to get support, including that for special needs.

Linux now runs on multiple platforms (x86, Alpha, Sparc, m68k and more) and includes a wide range of features. It has high performance TCP/IP networking plus support for protocols such as IPX, Appletalk, AX.25 and NetROM. Supported network interfaces include 10/100 Ethernet, FDDI, SLIP and PPP. Linux supports NFS and Samba and can access MSDOS and VFAT (Win95) filesystems as well as CDROMs.

Information and support is available from many different sources: news groups, projects like the Linux Documentation Project (LDP) and commercial offerings. A wide range of tools is available for developing software under Linux, including all the GNU tools (such as C, C++ and Fortran compilers); a port of Sun's Java exists as well. The source code of the kernel is freely available, under the GNU public license.

The kernel internals are fairly well documented in the Kernel Hackers Guide. This, combined with the large amount of drivers, makes it easy to add support for new or exotic devices.

Organizer: G.Folger / IT

Wednesday 11 June

CERN HEAVY ION COLLOQUIUM

at 16.30 hrs – Council Room

Hadrons in Dense Matter and the Low Mass Dilepton Enhancement

by Jochen WAMBACH / Darmstadt

Recent progress in the understanding of vector mesons in dense matter will be reviewed. Based on realistic descriptions of the rho-Meson in free space, modifications in a hot hadronic gas are discussed. The resulting in-medium rho-meson spectral function is applied to e^+e^- spectra from the CERES experiment. The model is able to largely explain the observed yields for invariant masses below 1 GeV.

Information <http://wwwinfo.cern.ch/a/alicedoc/www/chic/>

Organisers: Y. Foka and C. Lourenco

Thursday 12 June

CERN COLLOQUIUM

at 16.30 hrs – Auditorium*

What's the use of basic science ?

by C.H. LLEWELLYN-SMITH /
Director-General, CERN

With public expenditure under pressure, the criteria for the allocation of funding to scientific research have come under increasing scrutiny. It is sometimes asserted that funds should be focused on applied ("useful") science and technology, rather than pure ("useless") science. I shall argue that this misunderstands the contribution of science to society and the role of public funding. To equate the useful with the applied is to display the same level of understanding as the child who thinks that the hands are the most important part of a watch because they are the ones that tell the time. Governments should support basic science because it is economically useful, as well as being part of our culture. This leads to the much more difficult questions of the level at which Government should fund

basic science, and criteria for the allocation of funding between different fields.

*Tea & coffee will be served at 16.00 hrs.

Monday 16 June

PPE SEMINAR

at 16.30 hrs – Auditorium*

The Palo Verde neutrino oscillation experiment

by Giorgio GRATTA / Stanford University

We are building a long baseline neutrino oscillation experiment utilizing ν_e from the large Palo Verde Nuclear Generating Station near Phoenix, Arizona. Once completed this experiment should reach sensitivities of $\Delta m^2 \approx 1.5 \times 10^{-3} \text{ eV}^2$ and $\sin^2 2\theta \approx 0.1$ exploring masses about one order of magnitude smaller than the current limits. Our range of sensitivity will allow us to conclusively ascertain whether the atmospheric neutrino anomaly is caused by $\nu_e - \nu_\mu$ oscillations. We report on the status of the construction describing the main experimental challenges of the project.

* Tea & coffee will be served at 16.00 hrs.

FOR INFORMATION / POUR INFORMATION

Friday 6 June

SIXTY-FIRST PLENARY ECFA MEETING

(Ecfa European Committee For Future) Accelerators

at 09.00 hrs – DESY Laboratory

Draft Agenda

- 09.00 1. Adoption of the Draft Agenda
- 2. Approval of the Draft Minutes of the Sixtieth Plenary ECFA Meeting
- 09.15 3. Chairman's Report
- 10.00 4. LHC Project Status
(C.H. Llewellyn Smith)
- 10.30 *Coffee*
- 11.00 5. Update of ECFA Terms of Reference;
Next ECFA Chairman
- 11.30 6. DESY: Present and Future
(B.H. Wiik)
- 12.30 *Lunch*
- 14.00 7. DESY: LC Project (Accelerator)
- 14.45 8. DESY: LC Project (Physics and Detectors)
- 15.30 *Coffee*
- 16.00 9. HERA Physics
- 17.00 10. Any Other Business.
- 17.15 End of meeting.