

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.

EXERCICE MOAS 1999

Veuillez noter que le Guide pour l'entretien annuel et l'évaluation du travail, approuvé par le Comité de Concertation permanent à sa réunion du 20 janvier 1999, est maintenant disponible auprès des secrétariats de division. Il est aussi accessible pour consultation sur le serveur Novell SRV4_HOME, volume PE Division Data Disk (le fichier Word [F-MOASguide.doc] se trouve dans le dossier COM, sous-dossier Public).

Division du Personnel
Tél. 74480

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.

1999 MOAS EXERCISE

Please note that the Guide to the Annual Interview and Appraisal, which was approved by the Standing Concertation Committee on 20 January 1999, is now available from divisional secretariats. It may also be obtained directly from the server Novell SRV4_Home, volume PE Division Data Disk (the Word file [E-MOASguide.doc] is available in the folder COM, folder Public).

Personnel Division
Tel. 74480

SEMINARS SEMINAIRES

Vous pouvez aussi consulter
For information on these seminars, please see
<http://wwwas.cern.ch/Bulletin/Seminars/current.html>

Monday 8 February

ISOLDE EXPERIMENTS COMMITTEE

Open session

at 14.00 hrs – Council Chamber, bldg 503

1. Introductory remarks by the Chairman.
2. Progress report by the ISOLDE Technical Group Leader.
3. ISOLDE Coordinator's report.
4. Magnetic Moment of ^{67}Ni and $^{67}\text{Ni} \rightarrow ^{67}\text{Cu}$ β -Decay; ISC 96-28/P79, ISC 99-6/P79 Add.1; J. Rikovska.
5. IS 346: Mass measurements at ISOLDE with a Transmission RADIOfrequency spectrometer on-Line (MISTRAL); ISC 99-3/P107; D. Lunney
6. Diffusion of Fluorine in high open porosity graphite; ISC 99-8/P108; M. Menna.

Closed session

after the Open Session, 6th Floor Conference Room,
Main Building

Monday 8 February

CERN EP SEMINAR

at 16.30 hrs – Auditorium, bldg 500*

The last on-line level trigger and the physics at H1

by Vincent LEMAITRE / EP Division

The high centre-of-mass energy available in electron-proton reactions at HERA allows a better understanding of the structure and interactions of matter at its fundamental level. The measurement of proton structure functions, the dif-

fraction phenomena and the study of QCD dynamics shed light on the transition region between the perturbative and non-perturbative regime; they still carry the discovery potential of new phenomena. Moreover, physics including hard scale phenomena are of ever increasing importance at HERA. Indeed, the luminosity upgrade in the year 2000 offers the unique opportunity both to probe physics beyond the Standard Model and to achieve high precision measurements. From the trigger point of view, it is challenging to select hard scale physics together with interesting exclusive final states produced by soft physics phenomena. Thus, an overview of recent physics results is presented in the framework of the last on-line level trigger of the H1 collaboration. In particular, the filtering scheme and its hardware and software implementation will be presented.

Organiser : *Fabiola Gianotti / EP Division*

* Tea & coffee will be served at 16.00 hrs.

Tuesday 9 February

DUALITY WORKSHOP

at 14.00 hrs – TH Conference Room, bldg 4

Monopole from string and vice versa

by Soo Jong REY / Seoul National University, Korea

In this talk, I will address several dynamical issues on AdS/CFT correspondence. As a probe, I utilize fundamental and D-strings and make a precise holographic correspondence between them in the AdS bulk and charge excitations in the boundary CFT.

Wednesday 10 February

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room, bldg 4

Geometric construction of $N = 2$ and $N = 1$ supersymmetric vacua

by Peter MAYR / CERN -TH

We review how classical string theory describes non-perturbative $N=2$ supersymmetric quantum field theories. D-brane geometries related to geometrical singularities provide a systematic construction of a large class of conventional and non-Lagrangian field theories. The exact non-perturbative action is determined in a simple way from the geometric volume of brane wrappings. The same method provides also a solution to the long-standing problem of constructing phenomenologically interesting heterotic $N=1$ supersymmetric string vacua.

Mercredi 10 Février

LES MYSTERES DE L'UNIVERS

CYCLE DE CONFERENCES

POUR ELEVES DE CLASSES SECONDAIRES

à 14.00 hrs – Amphithéâtre, bât. 500

Un regard vers le futur

par J. ELLIS / CERN

La conférence est ouverte à tous.

Organisateur : Service des Visites / 78484

Thursday 11 February

LHC PROJECT SEMINAR

at 14.15 hrs – LHC Auditorium, bldg 30/7th floor

Data Acquisition and Archiving for the Measurements on LHC Magnets

by Adriaan RIJLLART & Maciej PERYT / LHC Division

Data Acquisition and Measurement Systems for the LHC superconducting magnet and cable tests produce large amounts of different types of data.

To successfully exploit this data as a user, without having the knowledge of file formats or data location, a Generic Data Base was needed to deal effectively with data in different formats and to uniform the user interface to access this data. This presentation will be given in two parts, firstly, to describe the data generating applications and secondly, the data import, storage and retrieval infrastructure.

Friday 12 February

SL CONTROLS SEMINAR

at 11.00 hrs – SL Auditorium, bldg 864, 1st floor

The O2 Object-Oriented database of Ardent Software

by Francois-Xavier DAVID / Ardent Software, France

O2 is one of the leading Object-Oriented DBMS offering excellent connectivity and support of standards. Among others, it offers C++ and Java binding, OQL 2.0, CORBA and WWW servers and code generation with RoseO2Link. The release 5.0 offers new mechanisms such as notification, replication and logical object identifiers.

The performance has been improved with adaptive locking, cross-transaction cache and new indexing mechanisms. 11.00–12.00 Overview of O2 and new functionality in release 5.0.

14.00 More details on language bindings, O2 Corba. Demonstration of applications using Corba and Java. Generation of ODMG code with RoseO2Link. Upcoming release 5.1.

Tuesday 16 February

IT INFORMATICS TUTORIAL

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

The Java Tutorials Programme:

Java Essentials I. What is Java

by Raul RAMOS-POLLAN / CERN-IT

This tutorial is only intended to give a very first general approach of what is the JAVA programming language and an overview of what the Java Development environment consists of. It will explain some of the reasons behind the success of Java and its relation to the Internet, Web browsers and Operating Systems. Also, it will briefly show how to access Java at CERN.

Information: <http://wwwinfo.cern.ch/support/training>

Organisers: M.Marquina and R.Ramos /IT-User Support

Wednesday 17 February

PS SEMINAR

at 11.00 hrs – PS Auditorium, 6/2-024

CIA

by Jun-ichi KISHIRO & Ken TAKAYAMA / KEK, Japan

KEK is contemplating an upgrade of its 12 GeV Proton Synchrotron for future neutrino experiments. A possible option, the Circular Induction Accelerator (CIA), uses induction cells instead of normal RF cavities and barrier bucket acceleration where acceleration and longitudinal focusing are achieved independently. Critical components such as ferri/ferro magnetic material and synchronized switched modulators will be discussed. The concept is applied to the present synchrotron and to other high intensity machines under preparation.

Organiser: Bruno Autin/PS

Thursday 18 February

SL SEMINAR

at 16.00 hrs* – SL Auditorium, bldg 864

Conclusions from the workshop on LEP-SPS Performance, Chamonix IX

by Steve MYERS / CERN

The 9th Performance Workshop was held from January 25 to January 29 in Chamonix, France.

It was the first joint SPS/LEP workshop and two full days with four major sessions were devoted to each machine.

The sessions on the SPS were associated with its role as LHC injector and the sessions on LEP prepared for its running at highest energy in the final years.

A summary of the conclusions presented in the summing up session as well as important issues raised at each of the sessions are presented in this seminar.

Information: <http://www.cern.ch/CERN/Divisions/SL/news/news.html>

Organiser: Werner Herr / SL Division

** Tea and coffee will be served at 15:30 in front of the Auditorium*

Friday 19 February

IT INFORMATICS TUTORIAL

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

The Java Tutorials Programme:

Java Essentials II. Basic Language Constructs

by Raul RAMOS-POLLAN / CERN-IT

Shows you how Java implements the concepts described in the first tutorial. You will learn the basic constructs of the Java language. Also, you'll learn how to create, use, and destroy objects and how to write the classes from which objects are created.

Information: <http://wwwinfo.cern.ch/support/training>

Organisers: M.Marquina and R.Ramos /IT-User Support

EDUCATION SERVICES EDUCATIFS



Information sur les cours, dates et places disponibles sur WWW:
Information about the courses, dates and places available on WWW :
<http://www.cern.ch/Training/>

ACADEMIC TRAINING

LECTURE SERIES

8*, 9*, 10*, 11 & 12** February**

from 11.00 to 12.00 hrs – Auditorium, bldg. 500

Superfluid Helium : Physics and applications

by W. F. VINEN*, Univ. of Birmingham, GB &

by P. LEBRUN**, LHC Division

***The Physics of Superfluid Helium-4 (WfV)**

The behaviour of liquid helium is dominated by quantum effects, which give rise to superfluidity at low temperatures. An account will be given of the observed properties of the superfluid phase of liquid ^4He , and of the way in which these properties can be described by a two-fluid model, supplemented by the requirement that motion of the superfluid component be irrotational with a hydrodynamic circulation that is quantized in units of h/m_4 . The existence of superfluidity and the quantization of circulation will be related to the presence of a Bose condensate. The description of excited states of the liquid in terms of weakly interacting thermal excitations (phonons and rotons) will be discussed, and the relation between these excitations and the normal-fluid component will be explained. The existence and role of quantized vortex lines in the superfluid component will be described. A brief account will be included of topics of current research interest.

POUR INFORMATION / FOR INFORMATION

LAPP – Laboratoire d'Annecy de physique des Particules
F74941 – Annecy-le-Vieux

Informations : Pascal Perrodo, tél. 04 50 09 16 00

Vendredi 19 février

SÉMINAIRE

à 14.00 h – Amphithéâtre du LAPP

Two Photon Physics at LEP

Maneesh WADHWA / Basel Universität

LEP offers an excellent opportunity to measure two photon processes over a large kinematical range and thus study the complex nature of the photon. Review of the experimental status of "Two Photon Physics" at LEP will be presented, with special attention to the recent results on resonances, multi-hadron production and photon structure functions.

ENSEIGNEMENT ACADEMIQUE ACADEMIC TRAINING

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****The Technology of Superfluid Helium (PL)**

The characteristics of helium II ("superfluid" helium) as a technical coolant, which derive from its specific transport properties, are presented from the engineering point of view. Application to the cooling of superconducting devices, particularly in particle accelerators, are discussed in terms of heat transfer capability and limitations in conductive and convective modes. Large-capacity refrigeration techniques below 2 K are briefly reported, stressing main issues in thermodynamic cycles and process machinery. Examples drawn from the LHC and other large projects illustrate the presentation.

ACADEMIC TRAINING

LECTURE SERIES

15, 16, 17, 18 & 19 February

from 11.00 to 12.00 hrs – Auditorium, bldg. 500

Calorimetry at the LHC

by M NESSI, / CERN-EP

A review is given of the detection techniques used at LHC for the measurement of leptons, hadrons and missing transverse energy using calorimeters.

The understanding of the detector layouts will be emphasised, as well as the engineering aspects of construction and the implications for the expected physics performance.