

Ces mesures ont été prises par l'Association du personnel du CERN, afin de répondre aux besoins des parents et, en particulier, de ceux qui travaillent. Elles ont reçu le plein appui de la Direction, l'Organisation ayant pour politique générale de prendre des dispositions concrètes pour offrir un environnement professionnel favorable aux parents en activité.

4. Harcèlement sexuel

- La Direction réaffirme la ferme volonté de l'Organisation d'offrir un environnement professionnel sain à tous les membres de son personnel et de prévenir le harcèlement sexuel.
- Des mesures rigoureuses seront prises en cas d'incident de cette nature, comme l'a prouvé une affaire récente de harcèlement sexuel au CERN, à la suite de laquelle des mesures disciplinaires ont été mises en œuvre. Toutes les personnes travaillant sur le domaine du CERN sont assurées que les plaintes pour harcèlement seront traitées rapidement et dans la plus stricte confidentialité.

N'hésitez pas à prendre contact avec moi si vous avez une question ou un commentaire sur ce qui précède.

Sudeshna Datta-Cockerill
Déléguée à l'égalité des chances
Tel. 74127 (ou courrier électronique)

SEMINARS SEMINAIRES

Monday 21 September

DETECTOR SEMINAR

at 11.00 hrs – Conference room, bldg. 13/2-005

The Silicon Tracker of the ALPHA Magnetic Spectrometer

by R. BATTISTON / University and INFN Perugia

The Alpha Magnetic Spectrometer (AMS) is the first space born magnetic detector. It will determine the matter and antimatter components of the primary cosmic rays with sensitivity up to 5 orders of magnitude better than before. AMS has flown successfully for the first time on the Shuttle Discovery, on June 2nd 1998, a mission lasting 10 days. At the heart of the AMS permanent magnet sits a high precision Silicon Tracker covering a surface of 5.1 m² (double sided), with 10 µm resolution on the bending plane and equipping a volume exceeding 1 cubic meter, making this detector the largest of this kind. The design and construction of the Silicon Tracker has been done in HEP Institutes following the rules of space certification and test (vibration, shock, thermovacuum, choice of high reliability components...) exporting a technology widely used at accelerators to the space domain. In this talk the AMS Silicon Tracker is presented and the experience of building a space particle detector and to operate it during the Shuttle mission is discussed.

Information:

<http://www.cern.ch/CERN/Divisions/EP/Seminars/Welcom.html>

Organiser: Rui Ribeiro /CERN-EP

4. Sexual Harassment

- The Management re-affirms the Organization's strong commitment to providing a healthy professional environment for its entire staff and ensuring against sexual harassment.
- Strong measures will be taken if any such incident should occur, as demonstrated by a recent case of sexual harassment at CERN which led to disciplinary measures being initiated. All persons working on the site are assured that complaints of harassment will be treated promptly and with the strictest confidentiality.

Please do not hesitate to contact me if you have any questions or comments with regard to the above.

Sudeshna Datta-Cockerill
Equal Opportunities Officer
Tel. 74127 (or e-mail)

Vous pouvez aussi consulter

For information on these seminars, please see

<http://wwwas.cern.ch/Bulletin/Seminars/current.html>

Monday 21 September

SPECIAL SEMINAR

at 14.00 hrs – TH Conference Room, bldg. 4

Seeing through the meson cloud, or: why the quark model works beyond the valence approximation

by Nathan ISGUR / Jefferson Laboratory

Simple arguments based on unitarity indicate that hadronic loop diagrams should produce large violations of the phenomenologically successful valence quark model spectroscopy and dynamics, including such simple but mysterious regularities as the OZI rule. I will discuss some recent work on "unquenching" the quark model which provides a possible explanation for the required miracles.

Monday 21 September

CERN HEAVY ION FORUM

at 14.30 hrs – Conference Room 160/1-009

Confinement and deconfinement in QCD: a new approach based on string theory and supergravity

by John ELLIS / CERN - TH

This talk is a review of new ideas for returning string theory to its origins in QCD, with the hope of obtaining new insight into confinement and deconfinement via the study of gravity in five dimensions. After introducing the original proposals of Maldacena and Witten along these lines, and some recent glueball mass calculations based on this

approach, speculations on the extension of these ideas to study the deconfinement phase transition in QCD will be presented.

Tuesday 22 September

TRAINING DAY TECHNICAL PRESENTATIONS

at 09.00 hrs – Theory Conference Room, bldg. 4

- 09.00 Demo Bureautique Office 97/98 - Valerie Huret, CIP
– Tour d’horizon des différentes applications bureautique au CERN
– Office 97/98 : Word (la mise en page et l’hypertexte), Excel (la simplicité et la rapidité)
- 10.00 Demo LabVIEW, BridgeVIEW, LabWindows/CVI - Stefano Zanetti, National Instruments
The presentation, which will be given in English or French according to demand, will be focused on the courses that National Instruments offers on its leading product LabVIEW, on BridgeVIEW and on LabWindows/CVI.
After a brief overview on what can be accomplished with each package and a discussion of future enhancements, current CERN courses will be presented as well as new proposals for courses on specific topics.
- 11.00 Java today and tomorrow : Jean-Philippe Forestier, OSYX
Java today:
– the main features of the language
– the standard (“core”) libraries (Applet, Thread, Servlet, JavaBeans, JDBC, RMI, Java IDL, JFC, etc.)
– the extension libraries (Java Communication, Java Mail, InfoBus, etc.).
Java tomorrow:
– overview of the next release of the JDK
– the future Java libraries (Java Enterprise API, Java Help, Java 3D, Java Telephony, etc.)

at 14.00 hrs – Auditorium, bldg. 500

- 14.00 Software Engineering Training from Anite - Jon Fairclough, Anite Systems
Over the past few years, Jon Fairclough from Anite has delivered one day and three day training courses on the European Space Agency (ESA) Software Engineering Standards (PSS-05). CERN has been making increasing use of these standards in its projects. Anite continues to offer these courses, which are continually updated to reflect the new guidelines that ESA produces. The 1998 version of the course covers the new guidelines on the use of object-oriented methods.
- 15.00 Software Engineering: Successes, failures and challenges – John Deacon, independent consultant.
John Deacon will talk about past and current progress in making software the source of fewer unpleasant surprises. The talk will also cover some of the techniques which offer less than we’d hope and some of the techniques which offer more than we’d hoped. We will also wonder what the short and medium term future has for us.

Consult the WEB for details of any last-minute changes:
Veuillez consulter le WEB pour les éventuels changements de dernière minute: <http://www.cern.ch/Training/>

Tuesday 22 September

TUESDAY WORKSHOP

at 14.00 hrs – TH Conference Room, bldg. 4

Supersymmetric domain walls (new exact results in supersymmetric gluodynamics)

by M. SHIFMAN / Theoretical Physics Inst., University of Minnesota

I review recent developments in supersymmetric domain walls and related issues. The main emphasis is put on saturated walls in strongly-coupled gauge theories. The central charge of the $N = 1$ superalgebra appears in supersymmetric gluodynamics as a quantum anomaly. I also consider some rather unusual general features of supersymmetric domain walls and fresh ideas on SUSY breaking associated with wall-like field configurations.

Tuesday 22 September

IT TRAINING TUTORIAL

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

Automatic update of the Digital Library

by Tullio BASAGLIA & Elena LODI / CERN-AS

The CERN Library is gradually becoming a digital library. The whole preprint collection since 1994 (close to 100 000 papers) is available online. For more recent papers, also the published version is often available on the web.

Adding the publication references to the Library databases is one of the main and most time-consuming tasks of the Library staff. Up to now, these data were added manually (some of them were imported semi-automatically from the SLAC SPIRES database). The growing offer of information services available on Internet, in addition to some in-house developments, will now allow the Library staff to import bibliographic data into our databases in a fully automatic way and to a wider extent than ever before.

This achievement represents a major enhancement of the set of information retrieval tools provided by the Library to the users’ community. In fact, commercial databases, such as INSPEC, do not include any link between the published article and the original preprint/report.

The tutorial will include a comparison of the coverage and contents of the CERN Library Catalogue, the SLAC SPIRES database and commercial databases like INSPEC, Engineering Index and Science Citation Index in addition to a technical part explaining the applied matching algorithm.

Information: <http://wwwinfo.cern.ch/support/training>
Organisers: M. Marquina & R. Ramos / IT-User Support

Tuesday 22 September

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium, bld. 500*

On the nature of gamma ray bursts

by Mario VIETRI / University of Rome

I will describe the major progress which has been recently made in our understanding of gamma ray bursts. Since the discovery of afterglows in the X-rays, it has been possible to locate them with high precision, identify some of their host galaxies, and determine the redshifts of at least three of them. Together with their cosmological nature, this has allowed us to establish quantitatively the fireball model, which postulates large scale hyper-relativistic motions

(Lorentz factor ~ 100) contaminated by small amounts of baryons, and initiated by extreme explosions. The nature of the objects triggering the explosions is still uncertain. Most theoretical models however converge towards a scenario, occurring at the end of the life of either single or double massive stars, where a massive black hole is surrounded by a thick accretion torus, and the extracted energy is directly that in the black hole's rotation. This represents one of the most extreme laboratories accessible today. Due to the high concentration of energy, gamma ray bursts are suggested to be the sources of ultra high energy ($> 10^{19}$ eV) protons and neutrinos in the Universe.

Organiser : Jasper Kirkby / CERN-EP

* Tea & coffee will be served at 16.00 hrs.

Wednesday 23 September

COSMOLOGY WORKSHOP

at 11.00 hrs – TH Conference Room, bldg. 4

Please note unusual day and time!

Quark matter as dark matter

by Sverker FREDRIKSSON (Lulea University of Technology)

I discuss the idea that dark matter is made up of massive, and absolutely stable quark objects of up to solar masses. This requires that the vast majority of the primordial quark matter escaped a phase transition to normal nuclear matter, and just split up into smaller pieces. I discuss, mostly in qualitative terms, the restrictions from observations, the consequences for galaxy formation, the origin of normal matter, the occurrence of massive black holes in galactic centres and the cosmic gamma-ray bursts.

Wednesday 23 September

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room, bldg. 4

Aspects of large N QCD dynamics from supergravity

by Yaron OZ / CERN - TH

We study dynamical aspects of large N QCD via supergravity on Anti-de Sitter black hole geometry. We compute gluball mass spectrum, the topological susceptibility and the gluon condensate and make a comparison to lattice simulations.

Wednesday 23 September

COMPUTING SEMINAR

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

Highlights from CHEP '98 and HEPiX

by G. PAWLITZEK, E. ARDERIU RIBERA & A. SILVERMAN / CERN-IT

The first two speakers will review the presentations given at this year's Computing in High Energy Physics (CHEP '98) conference, both from a general point of view and in their specific areas of interest.

Thereafter the HEPiX meeting following CHEP '98 will be summarised by the third speaker.

Information : <http://consult.cern.ch/seminar>

Organiser : G. Folger / CERN-IT

Thursday 24 September

THURSDAY SEMINAR

at 14.00 hrs – TH Conference Room, bldg. 4

Positronium hyperfine splitting – a test of QED

by A. CZARNECKI / Brookhaven National Laboratory

Positronium, an electron-positron bound state, constitutes the simplest atom, with calculable spectrum and lifetimes. Comparison with precise experimental results tests the theory of bound states in QED. In this talk I will review the theory of the hyperfine splitting of the positronium ground state, present a recent calculation of the $O(m\alpha^6)$ recoil corrections, and point out a possible discrepancy between theory and experiment.

Thursday 24 September

LHC PROJECT SEMINAR

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

Cold helium compressors for LHC

by L. TAVIAN / CERN-LHC

The superconducting magnets of LHC will be cooled by superfluid helium below 1.9 K. In total, the LHC will require about 20 kW of cooling power at 1.8 K, to be produced in eight stations located around the machine circumference. In view of the low saturation pressure of helium, the key technology to the production of large-power refrigeration at this temperature, consists in hydrodynamic compressors operating at cryogenic temperature. This technology, essential for the LHC project, needed to be further developed. CERN has procured from industry and tested three prototype single-stage hydrodynamic cryogenic helium compressors, based on different construction choices. After recalling the general theory of turbo-machines as well as the common functional specification, we present the main design features of the three machines and compare the performance results. Conclusions towards procurement and arrangement of final machines to be used in the LHC are drawn.

Tuesday 29 September

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs — Auditorium, bldg 500*

Highlights of the Vancouver Conference

by Friedrich DYDAK / CERN-EP Division

ICHEP'98, the International Conference on High Energy Physics held in July in Vancouver, can in several ways be regarded as a milestone for particle physics. The talk will attempt an appreciation for non-experts of the recent developments.

Organiser: Jasper Kirkby / CERN-EP

* Tea & coffee will be served at 16.00 hrs.

Mercredi 30 septembre

PRÉSENTATION TECHNIQUE

09.00-16.00 h – bât. 40/2-A01

Composants électroniques

par A. GREMAUD & S. COLLET / AWAG AG (CH)

Les composants électroniques EMC, CEM sont d'actualité, AWAG ELECTROTECHNIK représente les fabriquant

SCHLEGEL et KITAGAWA, dont les produits sont destinés aux protections EMC, CEM. Les composants ferrites et spéciaux, en gaines métalliques permettent de résoudre les problèmes spécifiques à ce domaine.

La Société distribue également les produits de KRAUS + NAIMER, des interrupteurs de puissance, et DOLD relais et systèmes de sécurité pour les moteurs, la gestion des alarmes, etc.

Le nouveau catalogue des composants d'installation électriques et de câblage de la société sera à disposition.

Langues: français, allemand, anglais

Information: S. Shearer / SPL / 76360

Thursday 1 October

DETECTOR SEMINAR*

at 11.00 hrs – Conference room, bldg. 13/2-005

The CLEO III Upgrade

by S. KOPP / Syracuse University

As part of an upgrade planned for 1999, the CLEO experiment at the Cornell symmetric $e^+e^- \rightarrow$ Upsilon(4S) $\rightarrow$ BBbar collider will be installing a barrel Ring Imaging Cherenkov detector. This addition, in addition to upgrades

to the accelerator, may allow CLEO to study CP violation in charged B decays. As a result of adding the RICH, the entire Silicon and Drift Chamber inner tracking system must be replaced. The design of each of these detector subsystems will be discussed, as well as their progress toward completion. Emphasis is given to the RICH being built at Syracuse University.

Information:

<http://www.cern.ch/CERN/Divisions/EP/Seminars/Welcome.html>

Organiser: Rui Ribeiro / CERN-EP

*** Please note unusual time and place**

Thursday 1 October

LHC PROJECT SEMINAR

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

TOTEM – experiment and interface to the accelerator

by A. FAUS-GOLFE & M. HAGUENAUER / CERN-SL & CERN-EP

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/>

ENSEIGNEMENT TECHNIQUE TECHNICAL TRAINING

Monique Duval ☎ 74460
monique.duval@cern.ch

PLACES DISPONIBLES

Des places sont disponibles dans les cours suivants :

Places are available in the following courses :

Introduction to Software Engineering on September 23 & 24

UNIX for non-programmers September 30 to October 2

Introduction to CORBA on October 6 to 8

C Programming on October 12 to 16.

Si vous désirez participer à l'un de ces cours, inscrivez-vous électroniquement en direct depuis les pages de description des cours dans le Web que vous trouvez à l'adresse : <http://www.cern.ch/Training/>, ou remplissez une "demande de formation" disponible auprès du Secrétariat de votre Division ou de votre DTO (Délégué divisionnaire à la formation). Les places seront attribuées dans l'ordre de réception des inscriptions.

If you wish to participate to one of these courses, please apply electronically directly from the course description pages that can be found on the Web at : <http://www.cern.ch/Training/> or fill in an "application for training" form available from your Divisional Secretariat or from your DTO (Divisional Training Officer). Applications will be accepted in the order of their receipt.