

SEMINARS SEMINAIRES

Monday 28 April

ECP PRESENTATIONS AT CHEP '97 - SESSION 2

at 11.00 hrs-bldg 13/2-005

The following ECP personnel who gave talks at CHEP '97 will repeat their presentations for the benefit of those people who were unable to attend the conference - Bertrand Rousseau - Implementing an Engineering Data Management System for the LHC Accelerator and Experiments: The CEDAR Project Andres Kruse - CMS Event Filter Vincenzo Innocente - CMS OO reconstruction framework Roger Heeley - Results from the Marcrae 1024 Node Switching Network Matthias Schroder - A compilation and analysis of the data management and computing in the OPAL experiment, 1989 to 1996. A list of the talks to be presented in the session can be found in the ECP Web pages.

Monday 28 April*

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs - TH Conference Room

HQET chromomagnetic interaction at two loops and beyond

by A. GROZIN / Institute of Nuclear Physics, Novosibirsk

We obtain the coefficient of the chromomagnetic interaction, the only unknown coefficient in the Heavy Quark Effective Theory Lagrangian up to $1/m$ level, with the two-loop accuracy by matching scattering amplitudes of an on-shell heavy quark in an external field in full QCD and HQET. From its u -dependence, we find the two-loop anomalous dimension of this operator in HQET. It agrees with the recent result by G. Amoros, M. Beneke and M. Neubert, obtained by a different method. We also sum the terms $(\mathbf{p} \cdot \mathbf{oc})^*$ in $C_{m,s}$ and its anomalous dimension to all orders. It contains a renormalon pole at $\mathbf{J} = 1/2$; to compensate the corresponding ambiguity, a non-perturbative terms of order Λ / m_q is necessary.

* *Please note unusual day!*

Monday 28 April

PPE SEMINAR

at 16.30 hrs — Auditorium*

B^0 - B^0 bar mixing at SLD : current measurements and future prospects

by Stéphane WILLOCQ / SLAC

The time dependence of B^0 - B^0 bar mixing has been measured using a sample of 150 000 hadronic Z decays collected by the SLD experiment at the SLC between 1993 and 1995. Four different analyses have been performed. All analyses tag the B candidate at production with a combined tag that exploits the large polarized b forward-backward asymmetry together with the opposite hemisphere b jet charge. Two of the analyses exploit 3D topological vertexing to determine the B meson decay length, in conjunction with either a charged kaon or charge dipole final state tag. The other two analyses use identified high (p, p_z) leptons intersected with either a partially reconstructed D meson, or the

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

weighted average of tracks in the b jet. Future prospects for B^0 - B^0 bar mixing will also be reviewed.

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

Tuesday 29 April

TECHNICAL PRESENTATION

at 10.00 hrs - IT Auditorium, bldg 31/3-004-5

AZIZA - a distributed Web Manager based on Objectivity/DB

by W. EVANS / General Manager AZIZA Division of Objectivity, previously VP of Marketing with Objectivity

Aziza, an Enterprise Web Manager, is a solution to the content management crisis on multi-server web sites. Aziza was designed to allow the management of large-scale web sites: sites containing millions of pages, updated by thousands of authors and distributed across dozens of servers. Aziza provides non-invasive link integrity, uniform cross-server access controls, peer-to-peer content replication across servers, and a drag-and-drop graphical user interface for web site administration. Aziza is based on the Objectivity/DB object database and manages all web objects (metadata, content of all MIME types and native documents) in the Objectivity database. Aziza applies the transaction model of the database to the management of web content to allow multiple administrators and authors simultaneous access to the site. The core Aziza Web Object Manager is implemented on NT and UNIX platforms; the Aziza User Console is implemented in Java for execution in any Web browser. This presentation will discuss the data model underlying the Aziza Enterprise Web Manager, the benefits of content replication, the issues of cross-platform access controls, and integration of Aziza with off-the-shelf Web servers, browsers, content editors and load balancing routers. A demonstration of Aziza will be provided.

Organiser : S. Cannon I IT 175036

Wednesday 30 April

THEORETICAL SEMINAR

at 14.00 hrs - TH Conference Room

Non-triholomorphic aspects of hyper-Kähler geometry

by Ioannis BAKAS / CERN

Various moduli spaces that arise in monopole physics and the related problem of lower dimensional compactifications of supersymmetric gauge theories exhibit a common feature: the presence of non-triholomorphic isometries. The Atiyah-Hitchin metric on the moduli space of $SU(2)$ BPS monopoles is the simplest, yet non-trivial example of this kind. A systematic framework for their study is provided by Toda theory. Unlike other hyper-Kähler manifolds, spaces with no triholomorphic isometries are found to admit no free field realizations for the corresponding Toda field configurations. This occurrence is attributed to topological properties of the group of area-preserving diffeomorphisms underlying our approach. The classification of all purely non-triholomorphic spaces remains an open question.

Friday 2 May*

SL SEMINAR

at 16.00 hrs - SL Auditorium, Preveessin, bldg. 864**

The **SPS** as LHC injector

by Paul COLLIER & Karl-Heinz KISSLER / CERN

The LHC will make use of several of CERNs existing accelerators to form the LHC injector chain. The final link in this chain is the SPS, which is required to deliver high brilliance proton beams to the LHC at 450 GeV/c.

The requirements specified by the LHC design and the constraints imposed by the pre-injectors will be summarised, followed by a description of the modifications and upgrades needed in the SPS. These include the provision of a new extraction channel in LSS4 as well as changes to many of the major hardware systems in the SPS.

For the LHC beam in the SPS, there are two major challenges. One is the preservation of the small transverse emittance to maintain the required beam brilliance, while the other is the longitudinal beam dynamics. Both topics are actively being studied as part of the SPS machine development programme. The main areas of concern are mentioned, together with some of the potential hardware solutions to cure them.

* **Please note unusual date!**

** *Coffee and tea will be served at 15.30 hrs in front of the auditorium*

Monday 5 May

SPECIAL LHC TECHNICAL SEMINAR

at 15.30 hrs - LHC Auditorium, bldg. 30 (7th fl.)

The LHC Project Oral Presentations
at the PAC'97 Vancouver

Some of the LHC Project contributions which have been accepted for oral presentation at the coming Particle Accelerator Conference, Vancouver, will be presented in this special seminar. A more detailed programme will be available from the LHC Project Web pages.

Seminar co-ordinator: R. Schmidt / LHC

Mardi 6 mai

LIBRARY SCIENCE TALKS 1997

à 10.00 h - Salle de conférence TH

Bibliothèques virtuelles, bibliothèques numériques
par Corrado PETTENATI / CERN

Wednesday 7 May

CERN HEAVY ION COLLOQUIUM

at 14.30 hrs - ECP Conference Room (13-2-005)

Transverse momentum spectra in
nucleus-nucleus collisions

by Andrei LEONIDOV

The calculation of transverse momentum spectra in nuclear collisions in hydrodynamic and droplet model approaches is compared.

A discussion of whether the data show transverse collective flow is given.

Organisers: Y. Foka and C. Lourenço

Friday 16 May

WORKSHOP ON ELECTRONIC PUBLISHING IN PHYSICS

at 09.15 hrs - IT Auditorium, bldg. 31/3-005

The CERN Scientific Information Policy Board is organizing a workshop on trends in electronic publishing to discuss the current status and the potential of this new area for meeting the needs of accessing scientific documentation in Physics. The Board invites a group of professionals working in electronic publishing (users and producers) to attend this workshop. It will be of great interest to listen to people, from both Europe and America, who are studying, developing and distributing electronic publications in Physics.

Draft programme

Chairman Gabriele Veneziano

09.15 G. Veneziano. Introduction: purpose of the meeting

09.30 Frank Laloe (European Physical Society)

10.00 Martin Blume (American Physical Society)

10.30 Arie Jongejan (Elsevier Publishing)

11.00 *Coffee break*

11.30 Alan Singleton (IOP Publishing)

12.00 Douglas LaFrenier (AIP Publishing)

12.30 *Lunch*

14.15 Urda Beiglboeck (Springer-Verlag Publishing)

14.45 Daniele Amati and Marco Fabbrichesi (SISSA - Trieste)

15.15 Andy Cohen (Boston University)

15.30 *Coffee break*

15 A3 Round table with all speakers: Mick Draper (Moderator)

17.00 Summary of the day: Ken Peach

The workshop is open to all CERN staff, and those linked to Scientific Information-related tasks are sure to find them of particular interest. This flier is also distributed to some external libraries interested in the topic to invite their librarians to attend. Speakers and external guests should be at the Reception of CERN building 33 at 08:50 to be guided to the conference room.

You can register to attend by contacting Ms. Anita Olofsson by telephone (022) 767.24.31 or electronic mail: Anita.Olofsson@cern.ch.

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 GENERAL GENERAL EDUCATION

Rafel Carreras ® 75811

SCIENCE POUR TOUS
par Rafel Carreras

Jeudi 15 mai
de 13h.00 à 13h30 - Amphithéâtre

Version condensée de la soirée
"Les Sciences aujourd'hui"
du mardi 6 mai