

SEMINARS SEMINAIRES

Monday 16 February

COSMOLOGY MEETING

at 14.00 hrs – TH Conference Room

Matching numerical simulations to continuum field theories

by Marcelo GLEISER / Dartmouth

We will examine two crucial issues that arise when performing numerical simulations of non-linear field theories interacting with a stochastic background, be it thermal or quantum: how to obtain a proper continuum limit and how to match the model being simulated to a corresponding continuum field theory. We will illustrate our method by studying symmetry restoration and thermal nucleation of kink-antikink pairs in 2- and 1-dimensional scalar field theories respectively.

Monday 16 February

EP SEMINAR

at 16.30 hrs – Auditorium, bld. 500*

Hadronic data concerning the QCD Phase Transition

by Reinhard STOCK / University of Frankfurt

In the search for the hadron-parton phase transition the NA49 experiment uses central collisions of Lead nuclei ($A=208$) at 32 TeV. In addition to the much discussed J/Ψ suppression data, which concern mostly the “to be or not to be” question of a partonic state, we receive signals from bulk hadron production, which allows us to pin down the transition temperature and energy density at the transition as well as the overall space-time history of the collision process.

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

Tuesday 17 February

COMPUTER COLLOQUIUM

at 14.00 hrs – Auditorium, bld. 500

Dublin Core Metadata and the Resource Description Framework: Foundations for Resource Discovery on the World Wide Web

by Stuart WEIBEL

The Internet can be thought of as a World Commons where many previously-distinct resource description communities are mixed together. The result thus far has been an undifferentiated information ecology lacking in effective discovery tools. Development of better tools depends in part on the evolution of conventions for the semantics, syntax, and structure of resource description.

The Dublin Core Initiative is an international and interdisciplinary effort to define a core set of semantics for discovery of electronic resources. Dr. Weibel will describe the evolution of Dublin Core semantics, the current state of the model, and efforts underway to standardize it. Issues of Internationalization and multilinguality will also be addressed.

Vous pouvez aussi consulter

For information on these seminars, please see

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

Effective interchange of discovery information requires that there be an underlying architecture for metadata. The foundation for this architecture in the Web is now under construction under the auspices of the World Wide Web Consortium (W3C) under the name of the Resource Description Framework, or RDF. S. Weibel will discuss the co-evolution of the Dublin Core and the RDF and suggest how these related efforts will support a more robust information ecology than now exists on the Web.

About the speaker

Stuart Weibel has been a research scientist at the Online Computer Library Center since 1985. In recent years he has participated actively in Web standards development, including HTML, Uniform Resource Names, and metadata. He is a founding member of the International World Wide Web Conference Committee, Dr. Weibel manages the Dublin Core Workshop series, and has been instrumental in promoting the convergence of this broad resource description activity with the technical infrastructure developments underway under the auspices of the World Wide Web Consortium.

<http://www.oclc.org/~weibel/>

Mardi 17 février

IT TRAINING TUTORIAL

de 14.30 à 16.30 h – Amphithéâtre IT, bât. 31/3-004-5

Présentation d'ensemble du service central de courrier électronique

par Arnaud TADDEI / CERN-IT

Ce séminaire présente le service central de courrier électronique, le contexte, les motivations et quelques recommandations à nos utilisateurs (concernant les programmes à utiliser pour accéder au service de courrier électronique, comment migrer vers la solution centrale) ainsi que les prochaines étapes de ce projet. Bien que ce ne soit ni un cours ni une démonstration de produits, cette présentation se veut interactive. D'autre part ce séminaire ne s'adresse pas seulement aux personnels techniques et scientifiques mais aussi aux personnels administratifs.

Cette série de présentations a déjà été donnée en anglais à l'automne 1997 et nous la reprenons en français jusqu'en mars 1998.

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

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

Tuesday 17 February

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium, bld. 500

First results from the neutrino oscillation search with the upgraded KARMEN experiment.

by Klaus EITEL / Forschungszentrum Karlsruhe

The KARMEN neutrino experiment is situated at the beam-stop of ISIS, which provides a neutrino beam of ν_e, ν_μ and $\bar{\nu}_\mu$ from the π^+/μ^+ decay chain at rest. The oscillation channels $\nu_\mu \rightarrow \nu_e$ and $\bar{\nu}_\mu \rightarrow \bar{\nu}_e$ (appearance) as well as

$\nu_e \rightarrow X$ (disappearance) are investigated with a 56t liquid scintillation calorimeter at a mean distance of 18m from the ν source. An additional veto system was installed in 1996 within the massive iron shielding of the main detector to suppress cosmic induced background by a further factor of about 40. This upgrade increased substantially the sensitivity of the oscillation search to reach $\sin^2 2\theta = 10^{-3}$ for large Δm^2 in the $\nu_\mu \rightarrow \nu_e$ channel after 2-3 years operation. Results of the first year with the upgraded experiment will be presented and compared with the 1990-95 data and also with the positive evidence for $\nu_\mu \rightarrow \nu_e$ oscillations from LSND.

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

Wednesday 18 February

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Topics in superstring cosmology

by Pierre BINETRUY / LPTHE, Orsay & CERN/TH

Some aspects of post-big-bang string cosmology will be reviewed. The case of the weakly-coupled string theory will be presented with modular cosmology and axion physics discussed on a specific example of supersymmetry breaking. The possible relevance of an anomalous U(1) symmetry for the issues of inflation and/or cosmic strings will be stressed. As for strongly coupled strings, a discussion of the different scales involved will put in perspective the requirements for a complete cosmological scenario. The specifics of an M-theory-like compactification from 5 to 4 dimensions will be discussed.

Friday 20 February

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

Indications for an anomalous right-handed b-quark coupling from LEP and SLD Z decay data

by John FIELD / CERN -EP

Data on Z decays recorded by experiments at LEP and SLC until the end of 1996 have been analysed. The effective weak coupling constants of leptons, c quarks and b quarks have been extracted using only very weak theoretical assumptions. Except for the right-handed b quark coupling they all agree well with Standard Model expectations. The right-handed b quark coupling is found to be 42%, and about three standard deviations, above the Standard Model prediction.

Mardi 24 février

IT TRAINING TUTORIAL

de 14.30 à 16.30 h – Amphithéâtre IT, bât. 31/3-004-5

Tout ce que vous avez toujours voulu savoir sur les adresses mail

par Arnaud TADDEI / CERN-IT

Wednesday 25 February

TECHNICAL PRESENTATION

at 11.00 hrs – LHC Auditorium, bld. 30/7-018

Polyimide Films (APICAL) from Kaneka

by Toshinori MIZUGUCHI & Kazuyuki SENDA / Kaneka

Kaneka will present its latest developments in the field of polyimide films (APICAL). There will be a general presentation of the facilities related to APICAL in Kaneka Corporation in Japan and in Kaneka High-Tech. Materials Inc. in Texas, USA. This will be followed by a presentation of the APICAL product line, the existing commercial grades which show excellent dimensional stability, the new all-polyimide thermoplastic films and the recent developments and trends in this field.

Toshinori Mizuguchi is Technical Team Manager from Kaneka Corporation, Japan and Kazuyuki Senda is Marketing Manager of APICAL from Kaneka Belgium N.V., Belgium.

Jeudi 26 février

EXPOSITION TECHNIQUE

14.00-16-30 h – Parking bâtiment 252

Siemens Suisse SA

par A. SCHILLACI & M. GIRON

Le matériel sera présenté dans un camion d'exposition. Il s'agit de la gamme SIRIUS qui remporte actuellement beaucoup de succès. Cette gamme comprend des disjoncteurs, contacteurs, relais de surcharge, relais temporisés, départ-moteur et module interface AS-I.

Langues : français, anglais

Informations J. Brahy / LHC-IAS / 78648

Thursday 26 February

SL SEMINAR

at 16.00 hrs – SL Auditorium, Prévessin, bld. 864

Beam studies at different accelerators

by Albert HOFMANN / CERN-SL

Among the beam studies carried out by my colleagues and myself in different laboratories a selection of experiments will be presented which might be of general interest. They include mainly the work on colliding beams in the CEA low-beta by-pass, experiments with protons in the ISR, early operation of the SLC damping rings and developments of SPEAR and PEP at SLAC, commissioning and different studies of LEP.

**Coffee and tea will be served at 15:30 in front of the auditorium*

Friday 27 February

CERN HEAVY ION FORUM

at 14.30 hrs - Conference Room 160-1-009

Physics of Pb-Pb collisions at 40 GeV/nucleon

by Horst STOECKER / Frankfurt

The energy and baryon density produced in Pb-Pb collisions, vs. time, can be approached in various ways. The bombarding energy dependence of this critical issue is discussed. Emphasis will be given to the region around 40 GeV/nucleon. The life time of the resulting system is calculated. We will review these expectations and describe some of the implications this high density state will have on the hadronic and leptonic observables.