

SEMINARS SEMINAIRES

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

Monday 31 August

TECHNICAL PRESENTATION

09.00-12.00 hrs & 14.00-16.00 hrs – bld. 40/R-A10

Specialist for high-end positioning stages, controllers and opto-mechanical systems

by K. KRAFT / PMT SA Representing MICOS GmbH

Close co-operation with research and industry enables MICOS to offer a wide spectrum of linear and rotary positioners for an ever more demanding market. Drives range from manually adjustable DC and stepper to high-end piezo. Customised PC-operated or stand-alone control units can not only be used for MICOS products, but can also be adapted for other motorised positioners. These positioners are user-friendly and constantly updated to the latest technology.

Languages : French, English, German

Information : S.Shearer/SPL/76360

Monday 31 August*

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium, bld. 500**

Recent Discoveries with the Hubble Space Telescope

by John BAHCALL / Institute for Advanced Study, Princeton, New Jersey.

This talk is based upon a series of images of different astronomical systems obtained with the Hubble Space Telescope. It will feature a smorgasborg of recent discoveries, including images of planets in our solar system, regions of star formation, the oldest stars in the Galaxy, massive black holes in the centers of other galaxies, the hosts of gamma ray bursts and the hosts of quasars, and images describing the evolution of galaxies. I will provide non-technical astronomical commentary on the images.

Organiser : Jasper Kirkby / EP Division

** Please note unusual day.*

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

Tuesday 1 September

SPS AND PS EXPERIMENTS COMMITTEE

Open Session

at 09.00 hrs – Council Chamber, bld. 503*

1. QED in strong crystalline fields [NA43]: E. Uggerhoj.
2. Proposal to study the use of a crystal as a 'quarter-wave plate' to produce high energy circularly polarized photons (SPSC 98-17 / P308): M. Velasco.
3. A CERN-PS experimental campaign to measure neutron cross-sections from 1 eV to 250 MeV with high resolution (SPSC 98-15 / I220): C. Rubbia.
4. The Advanced Cosmic Composition Experiment at the Space Station [ACCESS]. A request for testbeam

facilities at the CERN SPS (SPSC 98-13 / M608):

R. Wigmans.

5. Status report from MICROMEGAS : I. Giomataris.

Closed session

after the Open Session, 6th floor Conference Room.

** Please note unusual place*

Tuesday 1 September

DUALITY WORKSHOP

at 14.00 hrs – TH Conference Room, bld. 4

Comments on String Theory on AdS_3

by Amit GIVEON / Hebrew University, Jerusalem

We study string propagation on AdS_3 , times a compact space from an "old fashioned" worldsheet point of view of perturbative string theory. We derive the spacetime CFT and its Virasoro and current algebras, thus establishing the conjectured AdS/CFT correspondence for this case in the full string theory. Our results have implications for the extreme IR limit of the D1-D5 system, as well as to 2+1-dimensional BTZ black holes and their Bekenstein-Hawking entropy.

Tuesday 1 September

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium, bld. 500*

What have we learned about solar neutrinos ?

by John BAHCALL / Institute for Advanced Study, Princeton, New Jersey

Five beautiful experiments (chlorine, Kamiokande, GALLEX, SAGE, and Superkamiokande) have detected solar neutrinos, which have approximately the fluxes and energies predicted by calculations of nuclear fusion rates in standard solar models. These experiments settle empirically the debate initiated in the 19th century on how the sun shines. Quantitative discrepancies between their measurements and the standard model predictions (which assume the accuracy of the standard solar model calculations and that nothing happens to the neutrinos after they are created) provide evidence that physics beyond the standard electroweak model may be manifested in solar neutrino experiments. Recent helioseismological measurements strengthen this inference. I will summarize the current status of solar neutrino research and review the prospects for discovering "smoking-gun" evidence for new physics with the Superkamiokande, SNO, ICARUS, and BOREXINO detectors.

Organiser : Jasper Kirkby / EP Division

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

Wednesday 2 September

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room, bld. 4

Ultra high energy cosmic rays: a signal from the very early Universe?

by V. BEREZINSKY / INFN, Laboratori Nazionali del Gran Sasso

The Ultra High Energy Cosmic Ray (UHECR) spectrum is measured up to energies above 10^{20} eV. The astrophysical origin of the observed particles is questioned by several problems, the most serious of which is the absence of steepening in the spectrum, as follows from very recent AGASA data. This steepening is expected due to energy losses or absorption of UHE particles, such as protons, nuclei and photons. After reviewing the data and problems with their astrophysical interpretation, I will discuss the possibility that UHECRs are produced by cosmological relics: Topological Defects (TD) and superheavy relic particles. These objects are typically produced in the post-inflationary epoch and can survive until now by emitting UHE particles. The maximum energy available and the spectra do not contradict the observations.

Thursday 3 September

LARGE HADRON COLLIDER COMMITTEE

Open Session

at 09.00 hrs – Auditorium, bld. 500

- 09.00-09.15 Status of the LHC project (C. Llewellyn Smith)
- 09.15-10.15 ALICE status report (J. Schukraft)
- 10.15-10.45 *Coffee Break*
- 10.45-11.45 ALICE HMPID Technical Design Report (G. Paic, F. Piuze)

Thursday 3 September

SL SEMINAR

at 10.00 hrs* – SL Auditorium, bld. 864

SL Oral Contributions to the High Energy Particle Accelerator Conference 1998

by SL Participants at HEACC 1998

The oral contributions of the SL division to the High Energy Accelerator Conference in Dubna 1998 will be presented to the benefit of those who cannot attend the conference. This includes contributed as well as invited papers.

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

Organiser: Werner Herr / CERN-SL

* Please note unusual time

Thursday 3 September

LHC PROJECT SEMINAR

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

The LHC dipole magnets

by C. WYSS / CERN-LHC

The requirements to be satisfied, the aims and the progress of the activities in view of the series manufacture of the LHC dipole magnets are presented.

Friday 4 September

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room, bld. 4

An effective theory for hot non-Abelian dynamics

by Dietrich BOEDEKER / University of Heidelberg

We consider time dependent correlation functions in non-Abelian gauge theories at finite temperature T . When these are dominated by soft momenta of order g^2T , where g is the gauge coupling, they cannot be computed perturbatively or in Euclidean lattice simulations. An example for such a quantity is the rate for electroweak baryon number violation in the very early universe. By integrating out the fields with momenta of order T and of order gT we obtain an effective theory for the soft momentum fields which can be used to compute these correlation functions on a lattice.

Monday 7 September

JAVA DEVELOPER FORUM

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

Moderators: R. Ramos, I. Reguero – CERN/IT

This is the first of a series of forums proposed by IT Division and aimed to discuss with the Java Developer community at CERN the offering of centralized Java Development facilities. After the test deployment of JDK (see the relevant news posted on this subject at the "cern.computing" newsgroup), we would like to share with you the current intentions for the next phases, which are in any case our interpretation of what it has been expressed through the answers to the Java Developer Survey.

The following agenda is proposed:

- Sharing your feedback on the test deployment of JDK
- Intended support for JDK in the production phase
- Discussion on possible infrastructure beyond JDK

Wednesday 9 September

TECHNICAL PRESENTATION

at 10.00 hrs – IT Auditorium, bld. 31/3-004-5

First Compaq Workstation event at CERN

by Teddy IVANITZKI / Business Manager Workstations, Compaq CH

We are pleased to invite you to the first Compaq Workstation presentation at CERN.

- 10.00 Introduction by: Philippe Gaillot.
- 10.10 Presentation of ESC (Compaq Partner) by Jean-Francois Jolimay, General Manager (Suisse).
- 10.20 The Compaq Workstations, present and future by Teddy Ivanitzki, Business Manager Workstations, Compaq (Suisse).
 - Overview of current and future Workstations.
 - Chips' development (Intel, Alpha).
 - Short introduction on graphics.
- 10.40 Migration plans for DIGITAL Workstations users by J.-M. Buchi, Workstation Business Development Manager, DIGITAL (Suisse Romande).
- 10.50 Architectural differences between Intel- and Alpha-based Workstations by Teddy Ivanitzki.
- 11.30 Q & A's
- 12.00 Buffet-lunch
- 13.30 End of the event

We sincerely hope to see all of you at this important event and we look forward to hearing from you soon.

Organiser : S. Cannon / IT / 75036