

SEMINARS SEMINAIRES

Vous pouvez aussi consulter

For information on these seminars, please see

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

Monday 6 September

EP SEMINAR

at 16.30 hrs – Auditorium, bldg 500*

Search for Higgs boson(s) with L3

by Aaron DOMINGUEZ / University of California, San Diego

The search for the Higgs boson(s) by the L3 experiment will be reviewed. We have carried out analyses for neutral Higgs scalars in the framework of the Standard Model and the Minimal Supersymmetric Standard Model, and for charged Higgs pairs in a general two-doublet model, using LEP2 data up to center-of-mass energies of 189 GeV. The data up to $\sqrt{s} = 196$ GeV will also be briefly reviewed in the Standard Model Higgs search.

Organiser : Fabiola GIANOTTI / EP Division

* Tea & coffee will be served at 16.00 hrs.

Tuesday 7 September

LEP EXPERIMENTS COMMITTEE

Open session

at 09.00 hrs – Auditorium, bldg 500

Reports on the LEP machine:

09.00 - 09.35 Status of LEP operation (Paul Collier)

09.35 - 09.50 Status of beam energy calibration with polarisation and spectrometer (Bernad Dehning)

LEP detector status reports:

09.50-10.05 L3 (Gerjan Bobbink)

10.05-10.20 OPAL (Michael Hauschild)

10.20-10.35 ALEPH (Olivier Callot)

10.35-10.50 DELPHI (Philippe Charpentier)

10.50-11.15 Coffee break

LEP working group reports:

11.15-11.45 Higgs particles (Peter McNamara)

11.45-12.15 SUSY particles (Gerardo Ganis)

Experimental proposal:

12.15-12.45 CosmoLEP (Karsten Eggert)

Closed session

at 14.00 hrs – 6th floor Conference Room, Main Building

Wednesday 8 September

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room, bldg 4

Gamma-ray bursts: fireballs, cosmic rays and neutrinos

by Eli WAXMAN / Weizmann Institute of Science, Rehovot, Israel

The implications of recent gamma-ray burst (GRB) observations to our understanding of the physics of GRB production will be reviewed. Ultra-high energy cosmic ray and neutrino production in GRBs will be discussed in the light of recent cosmic-ray observations and of new constraints imposed by observations on GRB models.

Emphasis will be placed on model predictions that can be tested with operating and planned large scale, high energy cosmic-ray and neutrino detectors.

Wednesday* 8 September

CERN COLLOQUIUM

at 16.30 hrs – Auditorium, bldg 500**

Supernovae, Dark Energy and the Accelerating Universe

by Saul PERLMUTTER / Supernova Cosmology Project, Lawrence Berkeley National Laboratory

Based on an analysis of 42 high-redshift supernovae discovered by the Supernova Cosmology Project, we have found evidence for a positive cosmological constant, Λ , and hence an accelerating universe. In particular, the data are strongly inconsistent with a $\Lambda = 0$ flat cosmology, the simplest inflationary universe model. The size of our supernova sample allows us to perform a variety of statistical tests to check for possible systematic errors and biases. We will discuss results of these and other studies and the ongoing hunt for further loopholes to evade the apparent consequences of the measurements. We will present further work that begins to constrain the alternative physics theories of "dark energy" that have been proposed to explain these results. Finally, we propose a new concept for a definitive supernova measurement of the cosmological parameters.

Organiser : Luigi Di Lella / EP Division

* Please note unusual day.

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

Tuesday 14 September

SPS & PS EXPERIMENTS COMMITTEE

Open Session

at 09.00 hrs – Auditorium, bldg 500

1. Status report from WA95 : P. Zucchelli. 30min
2. Status report from WA96 : L. Camilleri. 30 min
3. Search for $\nu_\mu \rightarrow \nu_e$ oscillation at the CERN PS (SPSC 99-26/P311): P. Loverre. 30 min
4. ICANOE (Imaging and CALorimetric Neutrino Oscillation Experiment) – A proposal for a CERN-GS long baseline and atmospheric neutrino oscillation experiment (INFN/AE-99-17, CERN/SPSC 99-25/P314): C. Rubbia, G. Barbarino, A. Rubbia. 60 min
5. OPERA (Progress Report) – A long baseline ν_τ appearance experiment in the CNGS beam from CERN to Gran Sasso (CERN/SPSC 99-20/M635, LNGS-LOI 19/99): A. Ereditato. 30min

Closed Session

at 14.00 hrs and Wednesday 15 September at 09.00 hrs, 6th floor Conference room, Main Building, bldg 60

Tuesday 14 September

IT INFORMATICS TUTORIAL

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

The Java Series: Java RMI and Corba

by Raul RAMOS POLLAN / CERN-IT

Java RMI and CORBA are two similar mechanisms through which programmers can use objects running on remote machines as if they were running locally. They constitute one cornerstone on distributed OO computing.

CORBA is the industry standard available for a variety of languages and platforms. Java RMI is Sun's implementation of the same ideas but restricted to Java applications. This tutorial will show the main ideas behind both of them and will illustrate them with significative examples. We will be creating objects of different applications running on different machines, and we will be invoking methods on the foreign application. It will also show the differences between Java RMI and CORBA and how they are converging.

The tutorial is open to everyone. Attendants are required to have basic knowledge of OO programming and Java.

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

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

Tuesday 14 September

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium, bldg 500*

Highlights of the Stanford LP99 Symposium

by Eusebio SANCHEZ-ALVARO / EP Division

The latest results in high energy physics presented at LP99 will be reviewed. Among the topics that will be covered are heavy quark physics, neutrino physics, precision electroweak measurements and searches for new phenomena.

Organiser : Jasper KIRKBY / EP Division

* Tea & coffee will be served at 16.00 hrs.

Friday 17 September

IT INFORMATICS TUTORIAL

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

An Introduction to Internet Publishing with Microsoft Office

by Alberto PACE / CERN-IT

This tutorial will introduce to the tools provided by Microsoft Office to publish rapidly and effortlessly many different types of documents.

Special attention will be given to publishing Word and PowerPoint documents as well as Access databases. A few advanced examples will be finally provided on such topics as designing a simple, but complete web site, enhancing the published information with multimedia contents.

No previous knowledge of WWW or of programming languages is required. A basic knowledge of Word or PowerPoint would be a convenient starting point.

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

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

Friday 17 September

SL CONTROLS SEMINAR

at 11.00 hrs – SL Auditorium, bldg 864, 1st fl., Prévessin

Use of Industrial Components in SL/BT Equipment Controls

by Etienne CARLIER

The control system of all SPS target stations, beam absorbers and other aperture limiting devices is presently being refurbished, using solely standard industrial hardware and software components. SIEMENS Simatic S7-300 programmable logic controllers serve as equipment controllers. They are connected through Profibus to a WinNT front-end running the SIEMENS WinCC SCADA package which acts as local controller and gateway for remote access. A variant configuration, where the PLCs are directly linked to Ethernet, has been used for controlling the SPS Q measurement kickers.

These and some other SL/BT projects will be reviewed where fully off-the-shelf components have been successfully integrated into the SL accelerator controls infrastructure. The arguments leading to the various technical choices will be laid down including a report of the experience gained. Finally, the presentation will address the perspectives and current ideas for using industrial components in controlling SL/BT equipment during the LHC era.

Friday 17 September

SPECIAL COLLOQUIUM

at 16.30 hrs – Auditorium, bldg 500*

Bringing the Web to America

by Dr. Paul F. KUNZ / SLAC, Stanford

On 12 December 1991, Dr. Kunz installed the first Web server outside of Europe at the Stanford Linear Accelerator Center. Today, if you do not have access to the Web you are considered disadvantaged. Before it made sense for Tim Berners-Lee to invent the Web at CERN, there had to be a number of ingredients in place. Dr. Kunz will present a history of how these ingredients developed and the role the academic research community had in forming them. In particular, the role that big science, such as high energy physics, played in giving us the Web we have today.

About the speaker :

Dr Kunz received his PhD from Princeton University in 1968 and first came to CERN that year to do an experiment at the PS as a member of the Saclay group. He then went on to Michigan State in 1971 and worked on one of the first experiments at Fermilab. He joined SLAC in 1974 where he has been ever since.

In late '70s, Dr Kunz invented the 168/E emulators and the concept of event processing via processor farms. In collaboration with CERN engineers, his processors were used as part of the "express lane" for the UA1 experiment. Dr. Kunz has been a frequent visitor to CERN lately because of the popularity of his "C++ for Particle Physicists" course which he is now giving at CERN for the 13th time since March of 1996. Overall, he has given the course 50 times through out the world to over 1700 students.

Organiser : J. Gillies / AS Division

* Tea & coffee will be served at 16.00 hrs.