

# SEMINARS SEMINAIRES

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

## Monday 24 March

### WORKSHOP ON RECENT DEVELOPMENTS IN THEORETICAL PHYSICS

at 14.00 hrs – TH Conference Room

#### Softly broken supersymmetry - Part I

by Luis ALVAREZ-GAUMÉ / CERN

## Monday 24 March

### TECHNICAL PRESENTATION

at 14.00 hrs – IT Auditorium, bldg 31/3-004-5

#### Scientific Software for Windows and Mac

by Catriona GALBRAITH / Development Manager,  
Cherwell Scientific

Cherwell Scientific publish and distribute a range of software for scientific applications. Shown today will be:

**"ModelMaker"**: A new version of an easy-to-use, Windows-based numerical simulation modeling program. ModelMaker lets you visualize your model and quickly alter parameters to test the effects of change.

**"EasyPlot"**: Windows-based data analysis and graph plotting package focusing on graphical results and plotting experimental data.

**"Prism"**: Windows-based data analysis and graph plotting package, focusing on data presentation, statistics and curve-fitting.

**"pro Fit"**: A Mac-based data analysis and graph plotting package with the ability to add powerful user-defined external modules.

Information will also be available about other products for chemistry (gNMR, ChemSymphony) and bibliography management (EndNote). There will be an opportunity for a hands-on demo of each program. We would also be interested to meet with anyone who has developed scientific software that may have commercial potential.

For more information: our web site is at  
<http://www.cherwell.com/cherwell>

Organiser : S. Cannon / IT / 75036

## Monday 24 March

### PPE SEMINAR

at 16.30 hrs – Auditorium\*

#### (No longer rare) charmless hadronic B decays at CLEO

by Frank WUERHWEIN / California Institute of  
Technology

Several new branching fraction measurements for B decays to two charmless pseudoscalar mesons are presented. These measurements are then discussed in the context of flavor symmetry relationships, as well as factorization and CLEO's published  $B \rightarrow \pi \nu$  branching fraction.

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

## Tuesday 25 March

### SPS AND PS EXPERIMENTS COMMITTEE

at 09.00 hrs – Auditorium

#### Open session

1. The production and study of cold antihydrogen (SPSC 97-8/P306): G. Gabrielse. 30 min
2. Low-energy antiprotons for atomic, nuclear, gravitational, and applied physics (Los Alamos Lab., Warsaw Univ., Aarhus Univ., Genova Univ. and INFN, Stuttgart Univ., Pennsylvania State Univ., Tokyo Univ.; SPSLC 96-48/P303 REVISED): H. Knudsen. 30 min
3. Status report from NA48 : H. Blümer. 30 min
4. Status report from SPY (NA56) : S. Ragazzi. 30 min

#### Closed session

after the open session, to be continued on Wednesday  
26 March at 09.00, 6th floor Conference Room.

## Tuesday 25 March

### TECHNICAL PRESENTATION

at 09.00 hrs – IT Auditorium, bldg 31/3-004-5

#### FPGA synthesis tool Renoir/Exemplar (Galileo & Leonardo)

by D. YERLY & H.-P. STEINEMANN /  
Mentor Graphics (CH)

Exemplar Logic's FPGA synthesis tool Galileo is at CERN in use since several years. The presentation will show the new features and give an overview of the new packages around Galileo.

Exemplar's Galileo provides an integrated high-level design environment for simulation, synthesis, re-targeting and timing verification of FPGA, CPLD and ASIC designs. Exemplar's Leonardo builds upon Exemplar Logic's popular Galileo Design Environment, adding hierarchical interactive synthesis, hierarchical schematic viewing, and user-friendly wizard-like features.

- |               |                                                        |
|---------------|--------------------------------------------------------|
| 09.00 - 09.15 | Introduction by D. Yerly                               |
| 09.15 - 10.15 | Presentation by Renoir/Exemplar<br>by H.-P. Steinemann |
| 10.15 - 10.30 | Break                                                  |
| 10.30 - 11.45 | Demos Renoir/Exemplar<br>by H.-P. Steinemann           |
| 11.45 - 12.00 | Q & A. by D. Yerly. & H.-P. Steinemann                 |

Information : P. Baehler, IT/75016, S. Broecker, IT/78693  
Organiser : S. Cannon / IT / 75036

## Tuesday 25 March

### WORKSHOP ON RECENT DEVELOPMENTS IN THEORETICAL PHYSICS

at 14.00 hrs – TH Conference Room

#### Softly broken supersymmetry - Part II

by Luis ALVAREZ-GAUMÉ / CERN

## Tuesday 25 March

### TECHNICAL PRESENTATION

at 14.00 hrs – IT Auditorium, bldg 31/3-004-5

#### **Digital Switches Family Presentation**

by K. BAKER / Field Product Marketing Manager (NPBU), Digital Equipment Corporation.

Keith Baker, Field Product Marketing Manager at the Network Products Business Unit (NPBU) of Digital Equipment (Europe), will present the new Digital Switches family, from EtherWorks to GigaSwitches. This presentation will be made in close collaboration with Mr. Antoine Boss, Managing Director of ACN Advanced Communications Networks SA, the Digital NPBU partner for CERN.

*Organiser : S. Cannon / IT / 75036*

## Tuesday 25 March

### CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium\*

#### **Recent Results from DZero at the Tevatron**

by Darien WOOD / Northeastern University, Boston

Selected recent results are shown from the study of proton-antiproton collisions at  $\sqrt{s}=1.8$  TeV with the DZero detector at Fermilab.

The measurements of the W mass and studies of anomalous couplings of gauge bosons are presented, as well as measurements of the top quark mass and production cross section. Limits on new phenomena, such as supersymmetry and leptoquarks, are also discussed.

*\* Tea and Coffee will be served at 16.00 hrs.*

## Wednesday 26 March

### THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

#### **Non-equilibrium statistical mechanics: a review of recent developments**

by Giovanni GALLAVOTTI / IHES

Several recent simulations seem to support old proposals by Ruelle for the theory of turbulence, and they seem to have consequences also for statistical mechanics of systems out of equilibrium, in the form of general parameter-free predictions. They may lead to a formulation of a theory of non-equilibrium ensembles of which the classical canonical, microcanonical ensembles are very special cases. The talk will attempt a (necessarily quick) review of the subject.

*References: see the Mathematical Physics preprints page in:*  
<http://chimera.roma1.infn.it>

*mirrored in*

<http://www.math.rutgers.edu/~giovanni>

### POUR INFORMATION / FOR INFORMATION

#### UNIVERSITY OF GENEVA

Particle Physics Department

24, quai Ernest-Ansermet

1211 Geneva 4

Tel. 022 702 6273

Fax. 022 781 2192

## Friday 21 March\*

### PARTICLE PHYSICS SEMINAR

at 17.00 hrs – Stückelberg Auditorium

#### **A Preliminary Result for the W mass using $W \rightarrow \mu\nu$ decays at CDF**

by Andrew GORDON / Harvard Univ., Cambridge, MA

In the latest collider run at Fermilab, approximately  $80 \text{ pb}^{-1}$  of data were collected at both D0 and CDF. This represents approximately a fourfold increase in statistics from the previous run. A preliminary analysis of CDF data using  $W \rightarrow \mu\nu$  decays will be presented. This measurement of the W mass will also be compared to previous CDF measurements. Since many systematic errors can be constrained by data, the improvement in the error is expected to scale with the improvement in statistics.

*\* Please note unusual day!*