

SEMINARS SEMINAIRES

Monday 22 April

AC SEMINAR

at 11.00 hrs – AT Auditorium
bldg 30, 7th floor

High Luminosity LEP

by John JOWETT / CERN-SL

The luminosity of LEP might be increased substantially if the number of bunches in each beam could be increased beyond the present 'design' value of 4. Studies of the accelerator physics and hardware aspects of such an upgrade have shown that, with the help of a 'pretzel scheme', up to 36 bunches per beam might be collided at the Z^0 energy. Less dramatic, but nevertheless useful, luminosity increases are possible at energies well beyond the threshold for W -pair production. Some of the electrostatic separators needed for a low-cost version of the pretzel scheme are being installed now with a view to allowing at least 8-bunch operation, possibly as soon as 1992.

Monday*22 April

COMPUTING SEMINAR

GISMO: OOP in HEP

by W. B. ATWOOD / SLAC
at 16.00 hrs* – CN Auditorium
bldg 31/ 3-005

The GISMO Project was born in the Summer of 1990 at CERN. Its purpose was to explore how well the paradigm of Object Oriented programming would work for 'typical HEP codes.' Initially conceived to be a generalized reconstruction program, it was found to be easily extended back into the domain of simulation. The OOP approach naturally lends itself to modern Graphical User Interfaces and GISMO makes full use of this as implemented on NeXT computers. Today Gismo is a fully interactive program that can be used to model 'simple' detectors, reconstruct events in them, and output the results for further analysis. The benefits of the Object Oriented approach will be discussed and an online demonstration of building a detector in GISMO and running events of various types through it will be shown.

Organizers: N. Cremel /CN & M. Storr /ECP

* Please note unusual day and time

Monday 22 April

PPE SEMINAR

at 16.30 hrs – TH Conference Room*

A study of heavy flavour production using muons in hadronic Z^0 decays

by J. CHRIN / CERN & University of Manchester

The total momentum and transverse momentum of muons, in approx. 133,000 hadronic decays of the Z^0 , have been measured using the OPAL detector. Results are presented on measurements of (i) the partial widths $\Gamma(Z^0 \rightarrow b, c\bar{c})$, (ii) the heavy quark fragmentation functions, and (iii) the forward-backward asymmetry for Z^0 to $B\bar{B}$ decays.

* Please note unusual place

Mardi 23 avril

PRESENTATION TECHNIQUE

10.00-12.00 h & 14.00-16.00 h
bât. 73/2-027

Norgren Martonair (CH) présente une gamme d'éléments pneumatiques: vérins Martonair (D), vérins sans tige Lintra (D), pompes à vide Piab (D), unités de conditionnement d'air Norgren (GB).

Applications: automation, manipulation, traitement de l'air.

Langue: français

Renseignements: M. Diraison / FI / 4585

Tuesday 23 April

PARTICLE PHYSICS SEMINAR

at 16.30 hours – Council Chamber*

Latest results from AGS-E802 on identified charged particle production and global transverse energy flow in proton, oxygen and silicon interactions at 14.6 GeV/c per nucleon

by Michael J. TANNENBAUM / CERN & Brookhaven National Laboratory

Experiment 802 and its successors at the BNL AGS use a multipurpose detector for the exploration of the physics of heavy ion collisions at 14.6 GeV/c per nucleon. Latest results from measurements of proton, oxygen and silicon interactions in aluminium, copper, silver and gold targets will be presented and contrasted to the well-known physics of p-p and light ion collisions as well as compared to results from the CERN heavy ion program.

* Please note unusual place!

Tea & coffee will be served at 16.00 hrs

Wednesday 24 April

SPECIAL PS SEMINAR

at 10.30 hrs* – PS Auditorium
bldg 6, 2–024

**Antiproton Accumulator Complex (AAC), LEAR
and experiments: Current issues – 1991**

AAC : S. MAURY

LEAR : M. CHANEL

Experiments : R. LANDUA

This seminar is part of the ongoing series of seminars dealing with the different accelerators and aspects of the PS Complex. The following speakers will elucidate on current plans, performance and operational issues for the antiproton production and storage in the AAC and physics programme at LEAR.

* Please note unusual time

Wednesday 24 April

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Bose-Einstein condensation

by Jeremy BERNSTEIN / CERN

This semi-pedagogical lecture will concern itself with the modern field theorists' approach to Bose-Einstein condensation as an example of a spontaneously broken symmetry. Many of the problems of field theory: renormalization, triviality, and the like, appear here as well.

Wednesday 24 April

COMPUTING FORUM

at 16.00 hrs – CN Auditorium
bldg 31/3-005

Discussion on recent HEP conference in Japan

by H. RENSHALL/CERN-CN & J. SHIERS/
CERN-CN

Following the presentation of the highlights of the Computing in High Energy Physics '91 conference by these speakers at a Computer Seminar on 17 April, this Forum will be mainly devoted to a discussion of the implications of the conference.

Friday 26 April

COLLOQUIA ON EMERGING STANDARDS IN APPLICATIONS SOFTWARE

at 14.00 hrs – CN Auditorium
bldg 31/3-004

Digital's COHESION CASE environment

by Jean-Michel DEPRAZ

Digital will present their COHESION CASE architecture and tools. The following topics will be covered:

- Digital's COHESION Environment and Repository
- Lifecycle Support: Front-End and Back-End
- 4GL and Object Oriented Programming
- ULTRIX Compilation Systems
- DEC FUSE for Unix
- Building DECwindows/Motif Applications

To end the presentation, Digital's newest CASE tool, DEC FUSE for Unix, will be demonstrated. FUSE is a Unix programming environment, integrating several tools, including a debugger, call graph analyser, compilation tools and a special FUSE editor. FUSE runs now on Ultrix, but will shortly be available also on other Unix platforms.

Organizer : G. Moorhead /2995/WGM@CERNVM

Tuesday 30 April

SPECIAL PS SEMINAR

at 10.00 hrs – PS Auditorium
bldg 6/024

Posters and publications from the PS Division for the U.S. Particle Accelerator Conference (San Francisco, May 1991) will be displayed in the PS Auditorium from 10.00 onwards. Where applicable, there will be the oral presentations of the relevant papers after 11.30.

Thursday 2 & Friday 3 May

SYMPOSIUM ON QUANTUM PHYSICS IN MEMORY OF JOHN STEWART BELL

Thursday : at 11.00 hrs – Auditorium

Friday : at 09.30 hrs – Auditorium

Friday 3 May

COLLOQUIA ON EMERGING STANDARDS IN APPLICATIONS SOFTWARE

at 14.00 hrs – CN Auditorium
bldg 31/3-004

Mail Standards X-400, X-500

by Maria DIMOU / CERN-CN

Organizer : G. Moorhead /2995/WGM@CERNVM