

SEMINARS

SEMINAIRES

Wednesday 29 May

LEP EXPERIMENTS COMMITTEE

at 09.00 hrs – Main Auditorium, bldg 500

Provisional agenda for the 42nd meeting on 29 May 1996

OPEN SESSION: Reports on the LEP machine and physics

09.00 hrs – 09.15 hrs Conclusions of the Chamonix workshop (*Steve Myers*)

09.15 hrs – 09.45 hrs Status of LEP2 (*Carlo Wyss*)

09.45 hrs – 10.15 hrs Summary of LEP130 results (*Peter Fisher*)

10.15 hrs – 10.45 hrs *Coffee break*

LEP2 Workshop reports:

10.45 hrs – 11.15 hrs Machine-physics interface (*François Richard*)

11.15 hrs – 12.00 hrs Summary of physics groups (*Fabio Zwirner*)

12.00 hrs – 12.30 hrs Event generators (*Stavros Katsanevas*)

12.30 hrs – 14.00 hrs *Lunch*

CLOSED SESSION: at 14:00 h, 6th floor Conference Room

Wednesday 29 May

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Screening vs. confinement in 1+1 dimensions

by Andrei V. SMILGA / ITEP, Moscow

We show that, in 1+1-dimensional gauge theories, a heavy probe charge is screened by dynamical massless fermions both in the case when the source and the dynamical fermions belong to the same representation of the gauge group and, unexpectedly, in the case when the representation of the probe charge is smaller than the representation of the massless fermions. Thus, a fractionally-charged heavy probe is screened by dynamical fermions of integer charge in the massless Schwinger model, and a coloured probe in the fundamental representation is screened in QCD₂ with adjoint massless Majorana fermions. The screening disappears and confinement is restored as soon as the dynamical fermions are given a non-zero mass. For small masses, the string tension is given by the product of the light fermion mass and the fermion condensate with a known numerical coefficient. Parallels with 3+1-dimensional QCD and supersymmetric gauge theories are discussed.

Mercredi 29 mai

PRÉSENTATION TECHNIQUE

à 14.30 hrs – Amphithéâtre AT, bât. 30, 7^e étage

S5 pour Windows

par Jirair TCHALIKIAN / Société 4ia

Il s'agit d'un équivalent sous Windows du logiciel STEP 5 de programmation des automates Siemens. Outre les avantages de l'utilisation de l'environnement Windows, ce logiciel comprend un simulateur pour les tests hors ligne.

Thursday 30 May

UMTF TUTORIAL

at 10.00 hrs – CN Auditorium, bldg 31/3-004 & 5

NICE + Windows/95 = NICE/95

by Alberto Pace

Don't know what NICE is ?

A PC user and want to know what Windows/95 can do for you ?

A demonstration of the new supported 32bit Windows environment for all the CERN personal computers (PC) will be given which is based on Windows/95. This presentation will assume little or no familiarity with the PC, or NICE, and will concentrate on the services being offered to the users of PCs at CERN. How NICE/95 can facilitate the work of all users, eventually becoming a universal desktop environment, will be demonstrated.

This will be given in English and is the same as the version given in English on 2 May and in French on 7 May and 23 May.

Friday 31 May

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

QCD pomeron and Heisenberg spin chains

by G.P. KORCHEMSKY / LPTHE, Orsay & JINR, Dubna

The Regge behaviour of the scattering amplitudes in perturbative QCD is governed by the contribution of the colour-singlet compound states of Reggeized gluons. The interaction between Reggeons is described by the effective Hamiltonian, which in the multicolour limit turns out to be identical to the Hamiltonian of the completely integrable one-dimensional XXX Heisenberg magnet of non-compact spin $s = 0$. The spectrum of the colour-singlet Reggeon compound states, perturbative Pomerons and Odderons, is expressed by means of the Bethe ansatz in terms of the fundamental Q-function, which satisfies the Baxter equation. A method is developed which allows us to find its general solution as an asymptotic series in powers of the inverse conformal weight of the Reggeon states. The quantization conditions for the conserved charges for interacting Reggeons are established and the asymptotic approximation of the energy of the Reggeon states is defined.

Monday 3 June

TECHNICAL PRESENTATION

at 09.30 hrs – CN Auditorium, bldg 31/3-004-5

DEBUGGING C AND C++ CODE.

by Scott BARNES, Vice President of Sales Derick Moore, Chief Technical Officer G.B. FASTCASE TECHNOLOGY

Research by Demarco and Lister shows that professional programmers average 1.2 software defects for every 200 lines of code written. At this rate, a typical software program of 200,000 lines of code can easily contain over 1,000 programming errors. In order to find these errors, standard testing procedures are not enough.

Insure++ and Code Wizard are two products designed to streamline the debugging process, together, these tools can:

- Detect over 70 classes of errors in dynamic memory, static memory, stack memory, and third party libraries

- Check all of your system calls
- Give you a line and stack trace for your errors
- Provide integrated coverage analysis
- Tell you how your program uses dynamic memory
- Detect sloppy coding

Find out more about improving your C and C++ code at our on-site presentation.

Organiser : S. Cannon / CN / 5036

Tuesday 4 June

TECHNICAL PRESENTATION

at 10.00 hrs – CN Auditorium, bldg 31/3-004-5

VisualWave.

by Rolf Widmer, ParcPlace, & Daniel Cosandey, Clio.

Organiser : S. Cannon / CN / 5036

Tuesday 4 June

TECHNICAL PRESENTATION

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

GUI Converter WorkShop at CERN

by U. A. Grass, D. Fischer, R. Subramanian / INOMA SA Bâle.

* PLEASE NOTE UNUSUAL TIME

Organiser : S. Cannon / CN / 5036

Tuesday 4 & Wednesday 5 June

SPS AND LEAR EXPERIMENTS COMMITTEE

OPEN SESSION

Tuesday 4 June

at 9.00 hrs – Main Auditorium, bldg 500

OPEN SESSION

1. Overview, physics goals, perspectives and motivations for the future: K. Kajantie.
2. WA97- Status update and future plans: F. Antinori.
3. Report on WA98: H. Gutbrod.
4. Report on NA44: H. Bøggild.
5. Report on NA45/2: I. Tserruya.
6. Report on NA49: R. Stock.
7. Report on NA50: K. Kluberg.
8. Report on NA52: K. Pretzl.
9. Topical summaries of the Quark Matter '96 conference and their relation to CERN SPS future programme:
 - Theory J.P. Blaizot.
 - Experiment P. Braun-Munzinger.

Wednesday 5 June

at 9.00 hrs – Main Auditorium, bldg 500, to be continued at 14.00 hrs, 6th floor Conference Room

CLOSED SESSION

1. Approval of the minutes of the 28th meeting.
2. Report on the last meeting of the Research Board.

3. Status report on the SPS.
4. Status report on SPS experiments.
5. Status report on LEAR.
6. Status report on LEAR experiments.
7. Heavy ions:
 - 7.1 Current status and outlook on possible future heavy ion programme at the SPS, balance, uniqueness, overlap. (J. Stachel)
 - 7.2 Short reports from the referees on the 7 experiments (+WA99/2)
 - 7.3 Discussion by the committee.
8. Reports from referees:
 - 8.1 COMPASS, referees experiment: P. Bagnaia, R. Landua, referees theory: F. Close, B. Gavela
 - 8.2 Emulsion experiments referee: G. Romano
 - 8.3 NA48, referee: M. Tyndel
9. Any other business.

Wednesday 5 June

PS SEMINAR

at 11.00 hrs - PS Auditorium, bldg 6, 2-024

Status of the Next Linear Collider Test Accelerator

by Ronald D. Ruth, SLAC

Wednesday 5 June

SPECIAL PS SEMINAR

at 16.00 hrs - PS Auditorium, bldg 6, 2-024

A Modern View of Conformal Mapping

by B. Schnitzer, University of Graz, Austria

Thursday 6 June

SL SEMINAR

at 15.00 hrs* – SL Auditorium, Prévessin, bldg. 864

SL Contributions to EPAC 1996

SL participants at EPAC 1996

*Please note unusual time !

Friday 7 June

ECFA EUROPEAN COMMITTEE FOR FUTURE ACCELERATORS

at 10.00 hrs – Council Chamber

FIFTY-NINTH PLENARY ECFA MEETING

DRAFT AGENDA

1. Approval of the Draft Minutes of the Fifty-eighth Plenary ECFA Meeting
2. Adoption of the Draft Agenda
3. Chairman's Report
4. Status Report on LHC (C.H. Llewellyn Smith)
5. Status of Ongoing ECFA/DESY Workshop (L. Mandelli)
6. Status of HERA-B (A. Schwarz)
7. Status of Babar (R. Aleksan)
8. Any Other Business.