



SEMINARS SEMINAIRES

Friday 1 September

SPECIAL SEMINAR

14.00 to 16.30 hrs – Auditorium

The recent LEP pilot run

1. *Initial performance of LEP* S. Myers
2. *Beam dynamics measurements and estimates for future performance* A. Hoffmann
3. *Initial performance of the LEP experiments*
 - ALEPH J. Steinberger
 - DELPHI U. Amaldi
 - L3 S. Ting
 - OPAL A. Michelini

Monday 4 & Tuesday 5 September

LEP PHYSICS WORKSHOP

General Meeting for Final Results

Monday 4 September

Morning : Auditorium

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|-------|---|
| 09.00 | Introduction
G. Altarelli |
| 09.15 | Electroweak event generators for LEP
R. Kleiss |
| 10.15 | QCD event generators for LEP
T. Sjöstrand |
| 11.00 | Break |
| 11.30 | Electroweak radiative corrections
(general)
M. Consoli, W. Hollik |
| 12.15 | Δr
C. Burgers, F. Jegerlehner |
| 12.45 | Lunch |

Afternoon : LEP Auditorium

(Bldg 30 – 7th floor)

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|-------|--|
| 14.00 | Higgs search
P. Franzini, P. Taxil |
| 14.45 | SUSY
R. Barbieri |
| | Break |
| 16.00 | New vector bosons
R. Gatto |
| 16.45 | Compositeness
F.M. Renard (presented by
F. Boudjema) |
| 17.30 | End |

Tuesday 5 September

Morning – Auditorium

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|-------|---------------------------------------|
| 09.00 | Line shape
F. Berends |
| 09.30 | AFB
M. Böhm, W. Hollik |
| 10.30 | Break |
| 11.00 | A_{pol}^{τ}
S. Jadach, Z. Was |
| 11.45 | nu-counting
L. Trentadue |
| 12.30 | Lunch |

Afternoon: LEP Auditorium (Bldg 30 – 7th floor)

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|-------|---|
| 14.00 | $e^+e^- \rightarrow e^+e^-(\gamma)$
M. Caffo, E. Remiddi |
| 14.30 | Rare Z decays
J. van der Bij, N. Glover |
| 15.15 | Coffee |
| 15.45 | Heavy flavours
J.H. Kühn, P.M. Zerwas |
| 16.30 | QCD tests
Z. Kunszt, P. Nason |
| 17.15 | End |

Monday 4 September

PROTON SYNCHROTRON & SYNCHRO-CYCLOTRON COMMITTEE

Open session

at 14.00 hrs – Council Chamber

1. *Proposal : The Spin-splitter : Study of a method for polarizing antiprotons at LEAR (Iowa - UCLA - Genoa - Minnesota - Trieste - New Mexico- CEBAF Newport News - Hamburg - LAPP Annecy - CERN - Udine - Padua - Indiana - Royal Holloway/Bedford College London; PSSC/89-22/P120; 89-23/S120; A. Penzo)*
2. *Proposal : A general purpose ultra low-energy antiproton facility for LEAR (CERN - Genoa - Heidelberg - Pisa - PSI Villigen - Udine - Aarhus; PSSC/89-15/P118; 89-16/S118; G. Torelli)*
3. *Status Report on Expt. PS 197 – The Crystal Barrel : Meson spectroscopy at LEAR with a 4π neutral and charged detector (CERN - Hamburg - Karlsruhe - Lawrence Berkeley Lab. - QMC London - Mainz - Munich - RAL - Strasbourg CRN/ULP - UCLA - Zurich; H. Koch).*
4. *Status Report on Expt. PS 185 – Study of threshold production of $\bar{p}p \rightarrow \bar{Y}YY$ at LEAR (Carnegie Mellon - Erlangen - Nürnberg - Freiburg - Urbana - Champaign - Jülich IKP - KFA - Rice - Uppsala - Vienna IMEP-OeAW; PSSC/89-25/M304; K. Kilian).*
5. *Proposal : ISOL technique for nuclear medicine (CERN - Dresden - Jena; PSSC/89-17/P119; 89-18/S119; G.J. Beyer)*

Closed session

Tuesday 5 September at 09.00 hrs
6th floor Conference Room, Main Building

Monday 4 September

EP SEMINAR

at 16.30 hrs – Auditorium

Study of lepton flavour violating and other rare decays of neutral kaons

by W. MOLZON / Univ. of California, Irvine

In an experiment (E791) at the Brookhaven AGS, we have searched for decays of K_L^0 to muon-electron and electron pairs. No examples of either decay were found, and we have set new, significantly improved upper limits on these decay rates. In the same experiment, we have detected 87 examples of decays to muon pairs, and have derived a new value for the branching fraction to this mode. I discuss the experiment, the results and their implications for Standard Model and new physics, and the prospects for significant improvements in these searches.

Wednesday 6 September

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

On topological quantum field theories : ghost phenomenology

by L. BAULIEU / Paris

Given a differential equation, the space of solutions can often be explored by computing a supersymmetric partition function. In physicists' language, the process amounts to a functional integration concentrated around the solutions of the differential equation. The fluctuations of the modes which do not satisfy the differential equation are compensated by those coming from their supersymmetric counterparts. Going away from the classical trajectories permits one to compute correlation functions of the fields and obtain non-trivial information. In most cases, the quantum field theory is understood as stemming from a Lagrangian which is a pure derivative, and supersymmetry means the BRST symmetry coming from the gauge-fixing procedure of this topological Lagrangian. Striking examples are the Yang-Mills self-duality equations, in which case one reconstructs Donaldson polynomials, and the Langevin equations, in which case one recovers the supersymmetric version of stochastic quantization. New results about the quantization of the Chern-Simons action are reported.

Thursday 14 September

TIS SEMINAR

at 14.30 hrs – Auditorium

New developments in the finite element method and adaptive refinement procedures

by O.C. ZIENKIEWICZ / University College
Swansea, UK

Friday 15 September

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

First physics results from the Mark-II at the SLC

by Jordan NASH / SLAC