

3. *Progress report on Expt. PS 196 – Precision comparison of $\bar{p}$ and p masses in a Penning Trap (Harvard - Mainz - Washington - Fermilab; G. Gabrielse).*
4. *Proposal : ISOL technique for nuclear medicine (CERN - Dresden - Jena; PSCC/89-17/P119; 89-18/S119; G.J. Beyer).*
5. *Progress report and beam time request for Proposal P108 – Measurements of wake-riding electrons in antiproton-carbon-foil collisions (Tokyo - Aarhus - CERN; PSCC/88-32/P108 Add. 1; PSCC/89-6/P108 Add. 2; Y. Yamazaki).*
6. *Proposal : High resolution spectroscopy of X-rays from antiprotonic hydrogen and helium isotopes using a crystal spectrometer (Jülich - PSI Villigen - Aarhus - Islamabad - Mississippi; PSCC/89-11/P117; 89-12/S117; D. Gotta).*
7. *The Canadian KAON Factory at TRIUMF – A brief report on the project (A. Astbury, Univ. of Victoria).*

Closed session

Tuesday 30 May at 09.00 hrs in the 6th floor
Conference Room, Main Building

Tuesday 30 May

TECHNICAL PRESENTATION

at 09.00 hrs – bldg 6, 2-004

*Daisy Systems AG (CH) Seminar on CAE-Systems
of Daisy Cadnetix (USA)*

Thursday 1 June

ISOLDE COMMITTEE

Open session

Thursday 1 June at 13.00 hrs
in the DD Auditorium, bldg 31-3-005

1. *Introductory remarks (B. Jonson)*
2. *ISOLDE operation in 1989 (G. Weyer)*
3. *Report on target tests (H. Ravn)*
4. *Potential move of ISOLDE to the PS-Booster*
a) *Machine aspects (B.W. Allardyce)*
b) *Experimental aspects (H. Ravn)*
5. *Status Report IS120 and Proposal : The determination of static nuclear moments and other nuclear structure parameters at NICOLE (Bonn - CERN - Daresbury - Delft - Gent - Louvain - Lyon - München - Orsay - Oxford - Paris - Strasbourg; IP-60; N. Stone)*
6. *Proposal : Fabrication of a ^{22}Na target (CERN - Münster - Bochum - Caltech; IP-59; C. Rolfs)*
7. *Proposal : Complete beta-delayed one- and two proton emission study of ^{22}Al (Berkeley - Jyväskylä - Bonn - Manchester; IP-58; D.M. Moltz)*
8. *Status Report IS01-26 and Proposal : Determination of quadrupole deformation of neutron-rich $A \approx 100$ nuclei (Mainz - Gent - Zagreb; IP-62; G. Lhersonneau)*
9. *Proposal : Measurement of the quadrupole moment of the exotic ^{11}Li nucleus (Mainz - Marburg - CERN; IP-61; E. Arnold)*
10. *Status Report IS01-32 and Proposal: Microscopical studies of structural and electronic properties of semiconductors (Konstanz - Erlangen; IP- 56 Add. 1; M. Deicher)*
11. *Status Report : PAC spectrometer for ISOLDE (T. Butz)*
12. *Any other business*

Closed session

Friday 2 June at 08.30 hrs
in the DG Conference Room, bldg 60, 6th floor

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22, 23, 24 May

11.00 to 12.00 hrs – Auditorium

Major mathematical achievements of recent years

by R. F. CHURCHHOUSE / Department of
Computing Mathematics, University of Wales,
College of Cardiff

Lectures 1 to 3

25 & 26 May

11.00 to 12.00 hrs – Auditorium

Fractals

by R. F. CHURCHHOUSE / Department of
Computing Mathematics, University of Wales,
College of Cardiff

*Lectures 1 & 2***29, 30, 31 May & 1 June**

11.00 to 12.00 hrs – Auditorium

Antimatter

by J. S. BELL / CERN-TH & H. POTH /
KfK, Karlsruhe

*CPT, CP, matter-antimatter asymmetry in Cosmos,
antigravity, antiproton production, slowing, trapping,
positrons, positronium, antihydrogen.*

RADIATIVE CORRECTIONS FOR EXPERIMENTALISTS

In the context of the ongoing preparations for the commissioning of LEP and the ensuing physics issues, the TH Division plans to organize a short lecture course on radiative corrections around the Z^0 resonance.

The lectures aim at deriving a physically relevant quantity (for which the Z^0 line shape is taken as an example) starting from first principles (the Lagrangian of the Standard Model). They are aimed at an audience of experimentalists and will therefore be as pedagogical as possible. After attending the lectures experimentalists should in principle be able to appreciate the theoretical ingredients that enter into the predictions for many experimentally relevant observables at LEP. There will be ample time for questions and discussion.

The lecture schedule is as follows :

LECTURE 1 – Introduction and renormalization

Lecturer W. HOLLIK / CERN-TH

Topic The Lagrangian of the standard model; general structure of the theory, renormalization; Δr .

Time Tuesday 30 May at 14.30 hrs until 16.30 hrs

Place Auditorium

LECTURE 2 – Weak corrections in $e^+e^- \rightarrow \mu^+\mu^-$

Lecturer D. BARDINE / JINR, Dubna

Topic Introduction to weak corrections in light fermion pair production; renormalization

Time Thursday 1 June at 14.30 hrs until 16.30 hrs

Place Auditorium

LECTURE 3 – QED corrections in $e^+e^- \rightarrow \mu^+\mu^-$

Lecturer B. WARD / Tennessee

Topic Introduction to QED corrections in light fermion pair production; multiple bremsstrahlung; exponentiation

Time Friday 2 June at 11.00 hrs until 13.00 hrs

Place Auditorium

LECTURE 4 – The Z^0 line shape

Lecturer T. RIEMANN / DAW, Berlin

Topic Numerical evaluation of the effects discussed in the previous lectures; total cross-sections around the Z^0 resonance

Time Friday 2 June at 16.30 hrs until 18.30 hrs

Place Auditorium