

SEMINARS SEMINAIRES

Wednesday 23 August

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Physics of micromasers

by Benny LAUTRUP / CERN

An excited two-level atom in a high-quality conducting cavity realizes one of the simplest interacting quantum systems: spin and oscillator. The exact solution to this system is not known analytically, but the Jaynes-Cummings rotating wave approximation may be solved exactly. A beam of excited atoms passing through the cavity will pump it up until a statistical equilibrium is established between pumping and dissipation. This equilibrium is highly dependent on the length of time the atom spends in the cavity and shows quite complex features. The seminar will focus on the experimental and theoretical background and in particular on the various phases of the statistical equilibrium revealed by recent theoretical studies of the correlation lengths.

Friday 25 August

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

Dynamical left-right symmetry breaking

by Manfred LINDNER / Technische Universität München

A left-right symmetric model which contains only elementary gauge bosons, fermions and no elementary scalars will be discussed. The phenomenologically required symmetry breaking emerges dynamically leading to a composite Higgs sector with a renormalizable effective Lagrangian. This first complete and successful attempt to break left-right symmetry dynamically will be shown to be phenomenologically acceptable.

Monday 28 August

DETECTOR SEMINAR

at 11.00 hrs – ECP Conference Room, bldg 13/2-005

Coherent Cherenkov radiation of e^+e^- pairs and its application for the measurement of γ -beam polarization

by K.A. ISPIRIAN / Yerevan Physics Institute, Armenia

The dependence of Cherenkov radiation intensity of e^+e^- pairs, produced by high energy γ -quanta ($E_\gamma > 20$ GeV) upon 1) the distance from the pair production point, 2) the radiator thickness taking into account the conversion probability and 3) the azimuthal angle ϕ with respect to the γ -beam linear polarization is calculated taking into account multiple scattering. As the estimates show, one can measure the polarization of the existing SPS γ -beams by detecting the expected ϕ -asymmetry with the help of RICH detectors developed in CERN.

Monday 28 August

ISOLDE EXPERIMENTS COMMITTEE

Open session

at 14.00 hrs – Council Chamber

1. Introductory remarks by the Chairman.
2. Progress report by the Isolde Technical Group Leader.
3. Isolde Coordinator's report.
4. Study of the statistical properties of the angular distribution of beta-delayed protons following the decay of oriented $^{73}\text{KrFe}$ (Clarendon Lab., Oxford - CERN - Univ. Maryland, Dept. of Chemistry - Schuster Lab., Manchester); ISC 95-23/P74: J. Rikowska.
5. Status Report and Beam Time Request (IS332) (IPN, Orsay - CRN, Strasbourg - IPN, Lyon - ISN, Grenoble - CNEA, TANDAR, Buenos Aires - IN2P3, Paris); ISC 95-25/P43 Add.1: J. Sauvage.
6. Beta Decay of ^{68}Zn . A critical test for the charge-exchange reaction as a probe for the beta decay strength distribution (Univ. Jyväskylä, Accelerator Lab. - CERN/ISOLDE - CRN, CNRS-IN2P3, Strasbourg); ISC 95-27/P75: A. Jokinen.

Closed session

after the Open Session, 6th Floor Conference Room, Main Building.

Tuesday 29 August

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Review of electroweak results from EPS-HEP 95 Conference / Brussels

by P. WELLS / CERN

Wednesday 30 August

SPECIAL COMPUTING COLLOQUIUM

The inside story of C++

Morning session :

10.00 to 12.00hrs – Auditorium

What C++ is and why

by Bjarne STROUSTRUP

Afternoon session :

16.00 to 17.30 hrs – Auditorium

The Standard C++ library : facilities and techniques

Thursday 31 August

AC SEMINAR

at 16.30 hrs – AT Auditorium, bldg. 30, 7th floor

Superconductors and Magnets : Part 1

by Martin WILSON / CERN, AT-MA