

SEMINARS SEMINAIRES

Monday 23 February

EP SEMINAR

at 16.30 hrs – Auditorium

Higgs search and tau physics

by Stephan KEH / NIKHEF-H Amsterdam
representing the Crystal Ball Collaboration

With the Crystal Ball Detector at DORIS II we have searched for Higgs bosons in radiative decays of the Upsilon resonances. Upper limits on the existence of these decays are used to constrain models with non-minimal Higgs sectors. We also searched for exotic, lepton number-violating decays of the tau lepton. From there we derive lower limits on the mass scale of certain compositeness models. Finally we search for decay modes of the tau lepton into one charged particle and observe tau decays involving eta mesons.

Wednesday 25 February

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Probing electroweak symmetry breaking at the SSC : low energy theorems and a no-lose corollary

by M. CHANOWITZ / Berkeley

Low energy theorems are derived for the scattering of longitudinally polarized W and Z bosons that are valid for W and Z energies below the masses of the particles in the symmetry breaking sector. The low energy theorems are the basis for an estimate of the WW fusion signal that would arise from a strongly interacting symmetry breaking sector at 1 TeV or above. It would be possible to observe this strong interaction signal with a pp collider of the energy and luminosity proposed for the SSC. The result is a 'no-lose corollary' : either the strong interaction signal would be observed or the symmetry breaking sector contains light (compared to 1 TeV) particles that would be copiously produced.

Thursday 26 February

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Fun with neutrino masses

by H. HARARI / Weizmann Institute

Friday 27 February

MEETINGS ON

PARTICLE PHYSICS PHENOMENOLOGY

at 11.00 hrs – TH Conference Room

Non-perturbative string scenario for hadronic interactions

by B. ANDERSSON / Lund

Friday 27 February

Please note the unusual day!

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Recent results in Upsilon physics with CUSB-II

by P. FRANZINI / Columbia University

New precision results on the fine structure of the $\chi^{0,b}$ and implication for QCD, measurement of the two muon branching ratios, determination of the Upsilon decay widths and of the QCD scale parameter.

* Tea and coffee will be provided at 16.00 hrs.

Monday 2 March

EP SEMINAR

at 16.30 hrs – Auditorium

Study of rare muon and pion decays with SINDRUM I

by Andries van der SCHAAF / Physik-Institut der Universität Zürich

The SINDRUM I detector is a cylindrical magnetic spectrometer designed to search for the lepton flavour changing decay of a positive muon into three electrons (two positrons plus one electron). The high sensitivity offered by the large acceptance of the spectrometer and the high beam intensities at SIN enabled the study of extremely rare third order processes like the decay of a positive muon into three electrons and neutrino-antineutrino and the decay of a positive pion into three electrons and a neutrino. At present the detector is used in a measurement of the decay of a neutral pion into an electron-positron pair. Results of first feasibility tests will be presented.

Tuesday 3 March

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Research on particle detectors

by G. CHARPAK / CERN

TRAINING AND EDUCATION ENSEIGNEMENT

ENSEIGNEMENT GENERAL

Tél. 2844

Jeudi 26 février

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS