

SEMINARS

SEMINAIRES

Monday 29 August

PPE SEMINAR

at 16.30 hrs – Auditorium

The search for $K^+ \rightarrow \pi^+ \nu \nu$: new results on rare kaon decays from BNL E-787

by André S. TURCOT / TRIUMF

The search for the rare decay $K^+ \rightarrow \pi^+ \nu \nu$ performed at Brookhaven National Laboratory using the E-787 Spectrometer is described. Based on the 1989-1991 data set, an upper limit (preliminary) for the $K^+ \rightarrow \pi^+ \nu \nu$ branching ratio of 3.0×10^{-9} at the 90% confidence level has been set. For the two-body decay $K^+ \rightarrow \pi^+ X^0$, where X^0 is a hypothetical massless weakly interacting particle, a 9% C.L. upper limit of 6.1×10^{-10} has been obtained. The experiment also searches for other rare kaon decays. For the decay channel $K^+ \rightarrow \pi^+ \mu^+ \mu^-$, a preliminary result for the branching ratio of $(4.7 \pm 1.3 \pm 1.4) \times 10^{-8}$ has been set. This represents the first observation of this decay mode.

Tuesday 30 August

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Selected topics of B physics at LEP

by Wilbur VENUS / RAL and Delphi

B physics at LEP is a subject with many facets. In this talk a small selection of them is reviewed, with emphasis on recent measurements of lifetimes and time dependent oscillations and their interpretation.

* Tea & coffee will be served at 16.00 hrs

Wednesday 31 August

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

The two pomerons

by Peter LANDSHOFF / DAMTP, Cambridge University

I review some of the successes of soft-pomeron phenomenology, and outline the theory associated with the hard pomeron. I emphasise some of the theoretical problems that remain to be solved.

Thursday 1 September

DETECTOR R & D COMMITTEE

Open session

at 09.00 hrs – Council Chamber

1. Introductory remarks.
2. RD-2 Status Report: Study of a tracking/preshower detector for the LHC (Bern–Cambridge–CERN–Dortmund–Geneva–Hamburg–Melbourne–Moscow–Oslo–Oxford–Perugia–RAL–Saclay CEN; DRDC 94-34; G. Taylor).
3. RD-8 Progress Information: Development of GaAs detectors for physics at the LHC (RWTH Aachen–ANSTO Sydney–Bologna–CERN–Florence–Freiburg–Glasgow–Lancaster–RAL–Sheffield; K.M. Smith).

4. RD-9 Status Report: A demonstrator analog signal processing circuit in a radiation hard SOI-CMOS technology (CERN; DRDC 94-31; E.H.M. Heijne).
5. RD-29 Progress Information: A mixed analog-digital radiation hard technology for high energy physics electronics: DMILL (DAPNIA Saclay–CEA DTA LETI Grenoble–CEA Bruyeres le Chatel–IN2P3 Marseille–TMS Thomson Grenoble; M. Dentan).
6. Proposal: GEANT 4: an Object-Oriented toolkit for simulation in HEP (Wisconsin–Orsay–CERN–Bari–RWTH Aachen–CMS Saclay–Fukui–KEK Tsukuba–KFKI Budapest–ICU Mitaka–LAPP Annecy–LBL–Lawrence Livermore Nat. Lab.–Lebedev Phys. Inst. Moscow–Naruto–Cambridge–IHEP Serpukhov–Hawaii–Manchester; DRDC 94-29/P58; S. Giani).
7. Proposal: A persistent object manager for HEP (NA49–CERN CN–OPAL–LBL; DRDC 94-30/P59; J. Shiers).

Closed session

Thursday 1 September following the Open Session
continuing on Friday 2 September at 09.00 hrs, 6th floor
Conference Room

Tuesday 6 September

SPS & LEAR EXPERIMENTS COMMITTEE

Open session

at 09.00 hrs – Auditorium

1. A search for centrally produced non- $\bar{q}q$ mesons in proton proton interactions at 450 GeV/c using the CERN Ω spectrometer and GAMS-4000 - [extension of the WA91 and NA12/2 experiments] (Annecy LAPP, Athens, Birmingham, CERN, Dubna JINR, IISN Belgium, Los Alamos LANL, Manchester, Protvino IHEP, Tsukuba KEK; SPSLC 94/22 / P281) : A. Kirk.
2. Status report on PS196 : G. Gabrielse.
3. Status report on the Lead beam : R. Capi.

Closed session

at 10.30 hrs to be continued at 14.00 hrs, 6th floor
Conference Room.

Tuesday 6 September

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Studies of meson production in Z decays at LEP

by Y.J. PEI / Aachen & L3