

Friday 20 October

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

Large indirect CP-violation in the neutral kaon system beyond leading logarithms

by Ulrich NIERSTE / Technische Universität München

At present CP-violation is only unambiguously measured in $\Delta S = 2$ transitions inducing $K^0\bar{K}^0$ mixing. The corresponding parameter ϵ_K is therefore today the key quantity for the determination of the phase δ of the Cabibbo-Kobayashi-Maskawa (CKM) matrix. Now the Standard Model prediction for ϵ_K is sensitive to the top quark mass and the CKM parameters $|V_{ub}|$ and $|V_{cb}|$. The recent theoretical and experimental progress in the determination of these quantities allows for a much higher precision in the analysis of ϵ_K . To keep up with this precision, however, one had to calculate the short-distance QCD corrections to $\Delta S = 2$ transitions up to the *next-to-leading order* (NLO) of renormalization group improved perturbation theory. In my talk I will first recall the motivation to investigate CP-violation beyond leading logarithms, then I will describe the theoretical tools used in the calculation and finally I will discuss in detail the present status of the phenomenology. As a special feature, some values for $|V_{ub}|$, $|V_{cb}|$ consistent with tree-level B-decays are excluded by the measured value for ϵ_K . Further, the actual ranges for the CKM phase δ and related quantities are shown. I close my talk with a 1995 look at the $K_L K_S$ mass difference.

Monday 23 October

TECHNICAL PRESENTATION

at 14.00 hrs – CN Auditorium, bldg 31/3-005

Présentation des nouveaux produits NCD

by M. GUILLOUX / Sales Manager & M. VAU /
Technical marketing manager NCD France

Xterminaux 24 bits couleur, XPLORE, etc., nouvelle génération de terminaux X-window, équipé de processeurs 64 bits, résolution maximale 1600x1200, interfaces série, parallèle, PCMCIA, multimédia.

Présentation du logiciel NCDWare 4.0, 3D graphics support avec OpenGL.

Présentation MS Windows sur Terminal X avec NTRIGUE.

Questions/réponses

Organiser : S. Cannon / CN / 5036

Monday 23 October

PPE SEMINAR

at 16.30 hrs – Auditorium

Single photon and photon-jet production at D-Zero

by Bernard G. POPE / CERN and Michigan State University

Results are presented on the observation of isolated single photons by the D-Zero detector at the Fermilab collider. The inclusive cross section has been measured for photons in the central rapidity region for transverse energies above 10 GeV. Studies of jets recoiling against the single photon permit the measurement of the fundamental hard scattering angular distribution, while an analysis of the rapidity correlations between high transverse energy photons and the leading jet probes the gluon x distribution.

Tuesday 24 October

TECHNICAL

PRESENTATION

at 10.00 hrs – CN Auditorium, bldg 31-3-004/5

LOOK! a dynamic, graphical, C++ runtime visualization

by Clive HARRIS / Objectif Software Technology

Organiser : S. Cannon / CN / 5036

Mercredi 25 octobre

PRESENTATION TECHNIQUE

de 10.00 à 16.30 h – Amphithéâtre AT, bât. 30, 7^e étage

Démonstration les produits suivants : tables optiques, lentilles, laser et accessoires, tables de positionnement, fibres optiques, optiques en général, systèmes de test pour l'optique

par Ealing (GB) représenté par Hilpert electronics AG (CH)

Langues : allemand, anglais et français

Renseignements: M. Diraison / FI-A / 4585

Wednesday 25 October

PS SEMINAR

at 11.00 hrs – PS Auditorium

CLIC, a study for a Compact Linear Collider

by J.-P. DELAHAYE / CERN-PS

EDUCATION SERVICES EDUCATIFS

ENSEIGNEMENT GÉNÉRAL

Tél. 5811

Jeudi 26 octobre

à 13.00 h – Amphithéâtre

Science pour tous

par Rafel CARRERAS

Reprise des séances.