

THURSDAY 18 DECEMBER

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium *)

"Studies of b Quark Using Cornell e^+e^- Storage Ring"

by F.M. Pipkin / Harvard Univ. and CERN

Abstract : This seminar will summarize what has been learned concerning the bottom quark and its bound states from data taken with the large magnetic detector (CLEO) at the Cornell e^+e^- colliding beam facility. Early runs confirmed the earlier measurements of the $\psi(1S)$ and $\psi(2S)$, showed for the first time in a colliding beam experiment the $\psi(3S)$ and discovered a new broad resonance near the location expected for the $\psi(4S)$. In subsequent runs extensive measurements were made of the inclusive e^+e^- , $\mu^+\mu^-$, K^+K^- and $K^0\bar{K}^0$ production on the $\psi(4S)$ and in the background region between the $\psi(3S)$ and $\psi(4S)$. The measurements on the inclusive lepton production indicate that the $\psi(4S)$ decays into hadrons composed in part of b and $\bar{b}$ quarks. The inclusive kaon measurements give evidence as to whether the b quark decays through the route $b \rightarrow c \rightarrow u$ or $b \rightarrow u$. These and other results will be discussed in terms of the current theoretical expectations and the topless models.

*) Note : Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 16.00 hrs to meet the speaker and for informal discussions. Tea and coffee will be provided.

TUESDAY 23 DECEMBER

CERN COLLOQUIUM

at 16.30 hrs - Auditorium

"Thermodynamic Equilibrium and Stability of Gravitating Systems in Astrophysics and Quantum Field Theory"

by G. Horwitz / Racah Inst. of Physics, The Hebrew Univ. Jerusalem

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POUR INFORMATION / FOR INFORMATION

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VENDREDI 19 DECEMBRE

SEMINAIRE DU LAPP

à 10h30 - Amphithéâtre du LAPP

Laboratoire d'Annecy-le-Vieux de Physique des Particules, chemin de Bellevue, Annecy-le-Vieux (Haute-Savoie, France)

"Résultats récents du détecteur CHARM sur le faisceau neutrino SPS"

par G. Barbiellini / CERN-Rome

Résumé : Le détecteur électronique de la collaboration CHARM a permis d'accumuler des données

sur les faisceaux de $\nu(\bar{\nu})$ à bande large et étroite pendant ces deux dernières années. Les derniers résultats expérimentaux seront comparés aux prédictions actuelles de la théorie de l'interaction faible.

Renseignements complémentaires auprès de :
H. Pessard/CERN-EP, Tél. 6526, ou Laboratoire d'Annecy-le-Vieux, Tél. (023) 23.32.45, int.327.

TRAINING AND EDUCATION ENSEIGNEMENT

MONDAY 15, WEDNESDAY 17 AND
FRIDAY 19 DECEMBER

ACADEMIC TRAINING

(Tel. 2844)

at 11.00 hrs - Auditorium

"Particle Detection"

Monday 15 December : Lecture 10
"Applications and detector systems"
by H.G. Fischer

Wednesday 17 December : Lecture 11
"Applications and detector systems"
by H.G. Fischer

Friday 19 December : Lecture 12
"How to be in with particle detectors"
by G. Charpak.

JEUDI 18 DECEMBRE

ENSEIGNEMENT GENERAL

13h00/13h30 - Amphithéâtre

"Science pour Tous"

par R. Carreras

Prochain exposé : jeudi 22 janvier 1981.

INFORMATIONS GENERALES GENERAL INFORMATION

ON RECHERCHE

La personne qui a emprunté un aspirateur Nilfisk vers la fin novembre/début décembre au Labo. 1 D 05, Bât. 865 au SPS est priée de le rapporter à M. ROSS - Tél. 4857. Merci !