

LA CHASSE AUX PARTICULES

La bande dessinée en couleurs sur le CERN, par
Brian SOUTHWORTH et Georges BOIXADER,

est en vente à COOPIN durant les mois d'août et
septembre, de 13 h 00 à 16 h 30, tous les jours sauf le jeudi.

HUNTING PARTICLES

The new book of colour comic strips on CERN by
Brian SOUTHWORTH and Georges BOIXADER

is on sale during the months of August and
September at COOPIN (opening hours from 13.00 to 16.30
every day except Thursday)

SEMINARS SEMINAIRES

MONDAY 30 JULY

EP SEMINAR

at 17.00 hrs - Auditorium

" μ - pair production by 200 and 280 GeV/c
hadron beams"

by J. Timmermans / CERN

Abstract : Recent results on μ -pair production by $\pi^\pm$, $K^\pm$, p and $\bar{p}$ at 200 GeV/c and by π^- at 280 GeV/c on platinum and hydrogen targets will be presented. The experiment was performed at the CERN SPS using the NA3 spectrometer. A total of about 500,000 J/ψ events have been collected and its x , p_T and decay angular distributions will be discussed. We also give the first evidence for T production by pions. $\sim 15,000$ high mass ($M > 4 \text{ GeV}/c^2$) μ -pair events were produced by the various incoming particles. They were analyzed in the framework of the Drell-Yan model. Results will be given on A -dependence, scaling, comparison of $\pi^\pm$, $K^\pm$, $p^\pm$ induced mass spectra, p_T dependence and decay angular distributions. Pion and nucleon structure functions have been extracted using parametrisations of the form $x^\alpha(1-x)^\beta$.

TUESDAY 31 JULY

CERN PARTICLE PHYSICS SEMINAR

at 16.00 hrs - Auditorium (*)

"Correlation of high p_T $\pi^0 - \pi^0$
 $\eta - \pi^0$ mesons"

by D. Lissauer / CERN and Tel-Aviv Univ.

Abstract : The correlation of $\pi^0 - \pi^0$ and $\eta - \pi^0$ mesons with very high p_T has been measured at the ISR using a lead-liquid-argon calorimeter with a large azimuthal acceptance. The data shows the characteristics expected from basic constituent scattering and subsequent

fragmentation into mesons. The properties of the hadronic jet are presented in the context of constituent scattering models.

(*) Note : Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 15.30 hrs to meet the speaker and for informal discussions. Tea and coffee will be provided.

THURSDAY 2 AUGUST

CERN COLLOQUIUM

at 16.00 hrs - Auditorium (*)

"Cosmology confronts particle physics"

by G. Steigman / Bartol Research Foundation
of the Franklin Institute

Abstract : The physics of the early Universe will be described with particular attention to the production and survival of elementary particles. Constraints on lepton physics (masses and numbers of neutrinos) will be reviewed but most emphasis will be on recent results in hadron physics : heavy hadrons, free relic quarks, baryon asymmetry.

(*) Note : Those attending this colloquium are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 15.30 hrs to meet the speaker and for informal discussions. Tea and coffee will be provided.

MONDAY 6 AUGUST

EP SEMINAR

at 17.00 hrs - Auditorium

"Massive π^0 pairs and a search for direct photons"

by T.J. Chapin / Rockefeller Univ. and,
D. Levinthal / Columbia Univ.

THURSDAY 9 AUGUST

CERN PARTICLE PHYSICS SEMINAR

at 16.00 hrs - Auditorium

"The physics of the magnetic monopole and fibre bundles"

by C.N. Yang / Stony Brook