

Friday 20 March

CERN HEAVY ION FORUM

at 14.30 hrs – ECP conference room

New Results from Fermilab E866: Flavor Asymmetry in the Nucleon Sea and Nuclear Effects in J/psi Production

by Rusty TOWELL / Abilene

Fermilab E866 (NUSEA) has observed a large x-dependent asymmetry between the up and down anti-quark distributions in the proton. Our results for the ratio of anti-down to anti-up parton distribution functions are compared with current parameterizations of the sea. For $x < 0.2$ our results agree with CTEQ and MRS parameterizations, but for larger values of x our results indicate a much more symmetric sea. In addition, E866 also measured the nuclear dependence for J/psi production over a very wide range in xf and pt. These results are compared with previous results from Fermilab E772 and mechanisms for the suppression in nuclei are discussed.

FOR INFORMATION / POUR INFORMATION

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Wednesday 18 March

SEMINAR ON PARTICLE PHYSICS

at 17.00 hrs – Auditoire Stückelberg

The status of EROS-II

by Olivier PERDEREAU / LAL, Orsay

EROS-II is a microlensing survey that started taking data in mid-1996. The dedicated, fully equipped and automated telescope used for that survey will be presented.

The large data sets accumulated in the first year, covering different areas in the southern sky, are currently being analyzed. I will outline the different physics programs covered inside EROS-II, and present the result of a microlensing search towards SMC, preliminary results of a similar search through the galactic plane and of cepheid systematic studies, and give the current status of our supernovae search.

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9, 10, 11 & 12 March

11.00 to 12.00 hrs – Auditorium

The CLIC study of a 0.5 to 5 TeV $e^{+/-}$ Linear Collider

by J.P. DELAHAYE / CERN-PS & R. RUTH / SLAC

These lectures begin with a general introduction on $e^{+/-}$ linear colliders as well as the various technologies presently developed all over the world and continue with general scaling laws for linear collider parametrisation. The lectures then focus on the study of a high energy (0.5 to 5 TeV), high luminosity (10^{34} to $10^{35} \text{ cm}^{-2} \text{ s}^{-1}$) Compact Linear Collider (CLIC). CLIC is based on normal conducting travelling-wave accelerating structures at high frequency (30 GHz) operating at high fields (100 to 200 MeV/m). High frequency structures allow high accelerating gradients but cannot be powered by conventional RF sources. A novel and efficient method for RF power generation using an auxiliary high current-low energy electron beam, the so-called "Two Beam Acceleration" scheme is described and compared with traditional RF power production techniques. Finally, recent 30 GHz hardware developments and experimental results from the CLIC Test Facility assessing the feasibility of the scheme are presented.

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