

Wednesday 11 September

THEORETICAL SEMINAR

at 14.00 hrs - TH Conference Room

Life, the universe and nothing: the case for a cosmological constant

by Lawrence KRAUSS / Case Western Reserve
University, Cleveland

I will begin by describing why a very small, yet non-zero cosmological constant is, from the point of view of fundamental microphysical theory, perhaps the strangest possibility imaginable. Yet, as I will describe, data from a wide variety of independent cosmological and astrophysical observations combine together to suggest just such a possibility. If this is the case, then the energy density of the universe today is dominated by empty space! I will close by briefly describing possible implications for particle theory if the cosmological constant is non-zero.

Thursday 12 September

SL SEMINAR

at 16.00 hrs - SL Auditorium, Prévessin, bldg. 864

The e-p option for the LHC

by Eberhard KEIL / CERN

The conceptual design of an e-p option for the LHC consists of a single path through a sequence of steps or assumptions, leading to an estimate of the luminosity. The design assumes the nominal LHC proton bunch parameters, standard beam-beam tune shift parameters for electrons and protons, and equal electron and proton beam sizes at the interaction point(s). The design of the e-p interaction region is discussed. The electron and proton beta-functions there are derived. The maximum number of bunches and the parameters of the electron ring, in particular the maximum energy and RF power are discussed.

** Coffee & tea will be served at 15.30 in front of the auditorium*

Friday 13 September

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs - TH Conference Room

The gluon distribution function, F_L and $R = \sigma_L/\sigma_T$, as a function of F_2 and $dF_2/d\ln Q^2$ at small x

by A.V. KOTIKOV (speaker) / ENSLAPP, Annecy &
JINR, Dubna and G. PARENTE / Santiago de
Compostela

A set of formulae to extract the gluon distribution function $G(x)$, the longitudinal deep inelastic structure function F_L and the ratio $R = \sigma_L/\sigma_T$ from the transverse structure function F_2 and its derivative $dF_2/d\ln Q^2$ at small x , is given. The expressions are valid for any value of Q^2 , the behaviour of the parton densities at low x being x^{-5} . Using F_2 HERA data, the values of $G(x)$, F_L and R are obtained in the range $10^{-4} < x < 10^{-1}$.

Tuesday 17 September

TECHNICAL PRESENTATION

at 09.00 hrs - CN Auditorium, bldg 31/3-004-5

AutoDesk Presentation

by Ralf BRUGGER, Thomas FREDELIN &
Martin von WARTBURG / AutoDesk

Organiser : S. Cannon / CN/5036

Thursday 19 September

LHC SEMINAR

at 16.00 - LHC Auditorium, bldg. 30 (7th fl.)

Beam Losses and Magnet Quenches at HERA

by K. WITTENBURG / Deutsches Elektronen
Synchrotron DESY

EDUCATION SERVICES EDUCATIFS



FORMATION EN LANGUES LANGUAGE TRAINING

Françoise Benz
Andrée Fontbonne

73127
72844

• Autoformation en anglais

Un stage de mise en autonomie aura lieu du 23 au 27 septembre 1996 à raison de 4 heures par jour, de 08.30 à 12.30 h (soit 20 heures au total). Ce stage sera animé par Daphnee Goodfellow.

Si vous êtes intéressé(e) par cette formule d'apprentissage, vous pouvez envoyer dès maintenant votre "Demande de Formation" dûment complétée et signée au Secrétariat de la Formation en langues.

Pour toute information, veuillez contacter M^{me} Laurent :
tél. 8143 ou M. Liptow : tél. 2957.

• Cours d'expression orale en anglais

Ce cours aura lieu du 23 au 27 septembre 1996 à raison de 3 heures par jour, de 14.00 à 17.00 h, soit 15 heures au total.

Prix: 290 CHF.

Pour les modalités d'inscription et des informations plus détaillées, voir ci-dessus.