

Wednesday 11 March

COMPUTING SEMINAR

at 15.00 hrs* – IT Auditorium, bldg 31/3-005

Introduction to GSN

by Carl Pick Genroco, Slinger USA

**What we did for HIPPI, What we think to do for GSN
(only if time permits)**

by Arie van Praag / EP

* Please note unusual time

Organiser : G.Folger / IT

For Contacts: Arie van Praag / CERN

Thursday 12 March

SL SEMINAR

at 16.00 hrs* – SL Auditorium, bld. 864

Polarization and energy calibration at LEP2

by Florian Sonnemann (R.W.T.H. Aachen and CERN)

* Tea and coffee will be served at 15.30 hrs in front of the Auditorium

Monday 16 March

DETECTOR SEMINAR

at 11.00 hrs – Conference Room, bldg 13/2-005

A spark-protected high-rate parallel-geometry Gas Chamber

by Paulo Fonte / Dep. de Fisica, Univ. de Coimbra, Portugal

FOR INFORMATION / POUR INFORMATION

LAPP – Laboratoire d'Annecy de physique des Particules
F74941 – Annecy-le-Vieux

Informations : Pascal Perrodo, tél. 04 50 09 16 00

Vendredi 6 mars

SÉMINAIRE POUR LA PHYSIQUE DES PARTICULES

à 14.00 hrs – LAPP Auditorium

Le projet d'Observatoire Pierre Auger (rayons cosmiques au-delà de 1019 eV)

par Pierre Billoir (LPNHE, Paris)

La détection de gerbes atmosphériques a montré que le spectre des rayons cosmiques s'étend au-delà de 1020 eV, sans qu'on ait d'explication satisfaisante de leur origine (accélération astrophysique, sous-produits de défauts topologiques primordiaux ?). Pour apporter les éléments de réponse, le projet Auger est un détecteur de grande acceptance, hybride (fly's eye pour la fluorescence atmosphérique + réseau au sol), ce qui permet une inter-calibration ; outre la mesure de l'énergie, il a une bonne sensibilité à la nature de la particule primaire et à sa direction d'origine (distinction de sources ponctuelles). Il permet aussi de tester les signatures de défauts topologiques ou d'objets exotiques, notamment par l'étude des gerbes quasi-horizontales (neutrinos).

EDUCATION SERVICES EDUCATIFS



Information sur les cours, dates et places disponibles sur WWW:
Information about the courses, dates and places available on WWW :
<http://www.cern.ch/Training/>

ENSEIGNEMENT TECHNIQUE TECHNICAL TRAINING

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Nous vous rappelons que vous pouvez consulter la liste des cours techniques proposés, ainsi que les places disponibles, sur le Web à l'adresse : <http://www.cern.ch/Training/>

We would like to remind you that you can consult the up-to-date situation of the technical courses, with places available, on the Web at : <http://www.cern.ch/Training/>

ACADEMIC TRAINING ENSEIGNEMENT ACADEMIC

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LECTURE SERIES

2, 3, 4, 5 & 6 March

11.00 to 12.00 hrs – Council Chamber

The cosmic large-scale structure, dark matter and the origin of galaxies

by C. FRENK / Durham University, GB

In this series of lectures, I will review the main events and processes which are thought to have led to the build of structure in the Universe. First, I will provide an overview of some basic ideas such as inflation, Big Bang nucleosynthesis, the microwave background radiation and gravitational instability. I will then discuss the evidence for dark matter in the universe and current ideas on the nature and amount of this dark matter, including their consequences for the values of the fundamental cosmological parameters. Next, I will review the processes that give rise to the cosmic large-scale structure, starting with a discussion of the main fluctuation damping mechanisms at early times and finishing with a description of the non-linear phases of evolution. I will discuss how these calculations compare with observations and present the current status of competing cosmological models. Finally I will summarize the most recent and very exciting developments in observational and theoretical studies of galaxy formation, including the discovery of primordial galaxies.

9, 10, 11 & 12 March

11.00 to 12.00 hrs – Auditorium

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

by J.P. Delahaye/CERN-PS and R. Ruth, SLAC

This lectures begin with a general introduction on $e^{+}e^{-}$ 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} cm⁻²s⁻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.

INFORMATIONS GENERALES GENERAL INFORMATION

AVIS A LA CLIENTELE DU RESTAURANT NO. 1 (COOP), Bât. 501 - Site de Meyrin

Pour satisfaire à une demande pressante de la part de la clientèle, notamment des Utilisateurs du CERN, des travaux de réaménagement partiel de la distribution des plats chauds auront lieu entre jeudi 26 février et samedi 14 mars 1998.

Ces travaux sont financés par le concessionnaire dans le but non seulement d'améliorer la qualité de l'équipement mais surtout de créer un coin grillades qui permettra de varier davantage ses prestations y compris le soir et le week-end.

Tout sera mis en oeuvre pour limiter les inconvénients à la clientèle, surtout en matière de bruit pendant les heures des repas.

La 'COOP' et le Comité de Surveillance des Restaurants remercient par ailleurs tous les clients de leur patience et indulgence pendant cette période et restent persuadés qu'ils profiteront pleinement des nouvelles prestations dès la fin des travaux.

Comité de Surveillance des
Restaurants, tél. 77551

THE QUARK MACHINES

This new book on CERN and its work, by Gordon Fraser and published by the UK Institute of Physics, is on sale at the Reception Shop, Building 33, price 30 SFr.

NOTICE TO USERS OF RESTAURANT NO. 1 (COOP), Building 501 - Meyrin site

In response to insistent requests from the clientèle, in particular CERN Users, work is due to start on the partial transformation of the hot meal distribution system on Thursday, February 26, 1998 and is expected to be completed by Saturday, March 14, 1998.

These transformations are financed by the concession-holder not only to improve the quality of the equipment but in particular to install facilities for grilling meat and fish, thereby increasing the variety of dishes on offer, including in the evening and at week-ends.

Every effort will be made to minimise inconvenience, especially with respect to noise at meal-times.

The 'COOP' and the Restaurant Supervisory Committee thank all clients for their patience and indulgence during this period and trust that they will take full advantage of the new facilities as soon as the work is completed.

Restaurant Supervisory
Committee, tel. 77551