

SEMINARS

SEMINAIRES

Monday 1 August

PPE SEMINAR

at 16.30 hrs – Auditorium

Measurements of the spin structure function g_1 of the proton and neutron from SLAC E143

by Peter BOSTED / The American University

We have measured the ratio g_1/F_1 over the range $0.029 < x < 0.8$ and $1.3 < Q^2 < 10 \text{ (GeV/c)}^2$ using deep inelastic scattering of polarized electrons from polarized NH3 and ND3 targets. Values for both proton and neutron spin structure functions g_1^p and g_1^n have been extracted at constant $Q^2 = 3 \text{ (GeV/c)}^2$. The $\int_0^1 g_1^p(x) dx$ is found to be well below the Ellis-Jaffe prediction, confirming the results of previous experiments. The $\int_0^1 [g_1^p(x) - g_1^n(x)] dx$ is found to be in agreement with the Bjorken Sum Rule prediction when QCD corrections are included.

Monday 8 August

PPE SEMINAR

at 16.30 hrs – Auditorium

Rapidity gaps between jets at D0

by Andrew BRANDT / FNAL

Results are presented from a study of events with a rapidity gap between jets. The D0 detector was used to examine these events produced by the Fermilab Tevatron $p\bar{p}$ collider at $\sqrt{s} = 1.8 \text{ TeV}$. The fraction of events with an observed rapidity gap between the two highest transverse energy jets is measured as a function of the pseudorapidity separation between the jet edges. An upper limit at the 95% confidence level of 1.1% is placed on the fraction of events with no particles between the jets. Preliminary results from an analysis of multiplicity between the jets show a significant excess of events with low multiplicity which is qualitatively consistent with the exchange of a strongly interacting color singlet.

Thursday 11 August

CERN COLLOQUIUM

at 16.30 hrs – Auditorium*

Direct observations of microwave background anisotropy

by A.N. LASENBY / Cavendish Laboratory, Cambridge

The period since the first detection of statistical anisotropy by the COBE satellite has been an extremely fertile one for microwave background research, and has seen both the first detection of individual features (by the Tenerife experiment, and the extension to smaller angular scales (by the MAX and now CAT experiments). The talk will attempt to give a summary of these new experimental results together with a sketch of the theoretical context in which they do (or do not) fit.

* Tea & coffee will be served at 16.00 hrs.

EDUCATION

SERVICES

EDUCATIFS

SUMMER STUDENT LECTURES

This week

Monday 1 August	09.00 10.05 11.10	Current Problems in Neutrino Physics (1) Particle Accelerators (1) ---	L. DiLella L. Rivkin ---
Tuesday 2 August	09.00 10.05 11.10	Current Problems in Neutrino Physics (2) Particle Accelerators (2) Computing at CERN (1)	L. DiLella L. Rivkin S. Jarp
Wednesday 3 August	09.00 10.05 11.10	Current Problems in Neutrino Physics (3) Particle Accelerators (3) Computing at CERN (2)	L. DiLella L. Rivkin S. Jarp
Thursday 4 August	09.00 10.05 11.10	Current Problems in Neutrino Physics (4) Particle Accelerators (4) Computing at CERN (3)	L. DiLella L. Rivkin S. Jarp
Friday 5 August	09.00 10.05 11.10	Current Problem in Neutrino Physics (5) Particle Accelerators (5) ---	L. DiLella L. Rivkin ---

Next week

Monday 8 August	09.00 10.05 11.10	Particle Accelerators (6) TeV Linear Collider Studies at CERN ---	L. Rivkin W. Wuensch ---
Tuesday 9 August	09.00 10.05 11.10	CP Violation (1) The Large Hadron Collider Introduction to Supersymmetry	E. Auge L. Evans G. Giudice
Wednesday 10 August	09.00 10.05 11.10	CP Violation (2) Heavy Ion Physics at CERN: from SPS to LHC (1) Physics at Linear e ⁺ e ⁻ Colliders	E. Auge J. Schukraft F. Richard
Thursday 11 August	09.00 10.05 11.10	Heavy Ion Physics at CERN: from SPS to LHC (2) LEAR Physics Overview Discovery of Neutral Currents at CERN	J. Schukraft R. Landua J. Steinberger
Friday 12 August	09.00 10.05 11.10	"Conservation Principles" and "Symmetries of Physical Laws" Film --- ---	--- ---

While these lectures are prepared for Summer Students who are at CERN this summer, they are open to anyone at CERN. Many of these lectures treat topics at general level, so that they are a good opportunity for a staff member to find out more about something outside their daily work.

All lectures are given in English and held in the Auditorium. The complete programme (Word file) is available on the PE Division server :

- for PC users on the Novell network : attach to SRV1_PE as Guest
- for Mac users:
Appletalk zone PE Division
server SRV1_PE
username Guest
Chooser volume USR (folder Home>Guest>Summer)

Personnel Division
Tel. 4471

BROCHURES DES PROGRAMMES DE FORMATION
POUR 1994-1995

Les brochures des programmes de formation (Enseignement Académique, Cours de Langues, Formation au Management & à la Communication, Enseignement Technique) organisés par les Services Educatifs devraient être disponibles et distribuées au personnel vers la fin août.

Veuillez noter que, contrairement aux années précédentes, **la brochure de l'Enseignement Technique ne sera disponible que vers la fin août** en même temps que les brochures des autres programmes.

W. Blair
Tél. 3364

BROCHURES FOR THE TRAINING PROGRAMMES
FOR 1994-1995

The brochures for the training programmes (Academic Training, Language Training, Management & Communication Training, Technical Training) organised by Education Services should be available around the end of August and will be distributed to staff as in previous years.

Please note in particular that the **Technical Training brochure**, which is usually available in July, **will not be available till the end of August** this year.

W. Blair
Tel. 3364

INFORMATIONS
GENERALES
GENERAL INFORMATION

A VENDRE AUX DIVISIONS

Un nettoyeur de haute pression "KARCHER" type HD 1000.

R. Gruaz
Division AS – Groupe Logistique
Tél. 5782 ou 13*6207