

telescope to study the decay modes of ^{31}Ar , and led to the observation of beta delayed 2 proton and the newly observed beta delayed 3 proton decay mode. In the second technique, a Time Projection Chamber (TPC) is being developed and has been tested on the beta delayed 2 proton emission of ^{22}Al , aiming at the observation of an angular correlation between the 2 protons as a signature of coherent emission. The advantages provided by such a detector will be presented.

Friday 24 September

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

Global QCD analysis and CTEQ parton distributions

by Wi-Ki TUNG / Michigan State University

Global QCD analysis has reached a stage of unprecedented precision as the result of significant increase in accuracy and in kinematic coverage of a wide range of recent deep inelastic scattering experiments. Complementary quantitative experimental information from hadron-scattering experiments at fixed-target as well as collider energies are also beginning to emerge. The current general status of quantitative global QCD analysis will be reviewed. The CTEQ global analysis project, involving a long-term collaboration of theorists and experimentalists, will be described. Recent results of CTEQ analyses, including the latest experimental information, will be presented. Challenges for further advances will be discussed.

Monday 27 September

PPE SEMINAR

at 16.30 hrs – Auditorium

Parton distributions at low x from NMC data on $F_2(p)$ and $F_2(d)$

by Ewa RONDIO / Institute for Nuclear Studies,
Warsaw

The results of the New Muon Collaboration measurements of deep inelastic muon scattering on hydrogen and deuterium will be presented together with the results of QCD analysis leading to precise determination of the gluon distribution at low x . The data are in good agreement with the SLAC and BCDMS results and show differences with respect to those of EMC—NA2. The q^2 dependence of the proton and deuteron structure functions is compared with the predictions of perturbative QCD at next-to-leading order. Good agreement is observed with moderate contribution of higher twists, leading to accurate determination of parton distributions in the range $0.008 < x < 0.5$. The strong coupling constant, evaluated at lower x and q^2 than in other DIS determinations, is in agreement with previous results.

Tuesday 28 September

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Recent measurements in the $K^0\bar{K}^0$ system by the CP LEAR Experiment

by Andreas SCHOPPER / CERN-PPE

Thursday 30 September

COMPUTING SEMINAR

at 10.00 hrs – CN Auditorium
bldg 31/3-005

Aspects of Norwegian Supercomputing for Academic Use

by Arne LAUKHOLM / Director of Computing
Services, University of Oslo

Friday 1 October

SL SEMINAR

at 11.00 hrs – SL Auditorium
bldg. 864

Proton extraction experiment at the SPS using a bent crystal

by H. AKBARI & M. GYR / CERN-SL

Friday 1 October*

CERN COLLOQUIUM

at 16.30 hrs – Auditorium

What should Russia and the United States do with the Plutonium Glut?

by Wolfgang K.H. PANOFSKY / SLAC, Stanford

* Please note unusual day

EDUCATION SERVICES EDUCATIFS

ACADEMIC TRAINING

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LECTURE SERIES

22, 23 & 24 September

11.00 to 12.00 hrs – Auditorium

Reconversion of Nuclear Weapons

by S. KAPITZA / Russian Academy of Science

1993 – 1994 ACADEMIC TRAINING PROGRAMME

1st Term

4 October – 17 December 1993

LECTURE SERIES FOR POSTGRADUATE STUDENTS

18, 19, 20, 21 & 22 October

11.00 to 12.00 hrs – Auditorium

Gauge theories for pedestrians

by A. MASIERO / University of Padova, Italy

15, 17, 19, 22, 24 & 26 November

11.00 to 12.00 hrs – Auditorium

Electroweak interactions in the Standard Model

by A. PICH / CERN-TH

25, 26, 28, 29 October & 1 November

11.00 to 12.00 hrs – Auditorium

Perturbative QCD

by P. NASON / CERN-TH

The lectures are open to all those interested, without application.

The abstract of the lectures, as well as any change to the above information (dates, time, place, title, etc.) will be published in the CERN Bulletin, Training News, VM News and by Notices before each Term and for each series of lectures.

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Cours de langues

Language courses

Secrétariat (après-midi seulement) : 3127

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ANGLAIS-FRANÇAIS

Les inscriptions à ces cours sont ouvertes dès maintenant pour le premier trimestre 93-94 (du 11 octobre au 17 décembre).

Les formulaires d'inscription sont à votre disposition au Secrétariat des Cours de Langues (bât. 54/R-001), au Bureau des Utilisateurs (bât. 60/R-020), et à votre secrétariat de division.

Ces cours s'adressent à toute personne travaillant au CERN ainsi qu'aux conjoints.

Pour toute information, veuillez contacter Mme Benz ou Mme Fontbonne, tél. 3127 (l'après-midi seulement) ou M. Liptow, tél. 2957.

ENGLISH-FRENCH

Registration for first term's language courses 93-94 : from 11 October to 17 December.

Application forms are available at the Language Courses Secretariat (bldg 54/R-001), at the Users Office (bldg 60/R-020) and at your Divisional Secretariat.

These courses are open to all persons working on the CERN site and to their spouses.

For all information, please contact Mrs Benz or Mrs Fontbonne, tel. 3127 (afternoons only) or Mr Liptow, tel. 2957.