

SEMINARS SEMINAIRES

MONDAY 16 JUNE

EP SEMINAR

at 17.00 hrs - Auditorium

"Determining α_s/Λ in Deep Inelastic Muon Scattering and in Leptonic Decays of T"

by K.W. Chen / CERN

Abstract: A measurement of $F_2(x, q^2)$ in deep inelastic muon scattering permits a study of scaling violations and a determination of Λ , the scale parameter in QCD, which may be able to account for the scale-breaking. In QCD, the value of the branching ratio $B_{\mu\mu}$ for T decay is related to α_s , the strong coupling constant, given the b-quark charge.

[Note that to the leading order $\alpha_s = 4\pi/(11 - 2n/3) \ln q^2/\Lambda$ where n is the number of quark flavours.] We report here most recent experimental results on $F_2^{\mu\mu}$ up to $q^2 = 140$ (GeV/c)² obtained at Fermilab (E-319) and also a new measurement of $B_{\mu\mu}$ from the LENA Collaboration at DESY. Emphasis is to be made on the determination of α_s/Λ in the leading order, assuming the validity of QCD. The two measurements are shown to be consistent to each other and tend to favor α_s/Λ values smaller than previously reported.

TUESDAY 17 JUNE

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium (*)

"Experiments with 4 Dimensional Crystals"

by C. Rebbi / BNL

Abstract: The properties of 4 dimensional lattice gauge theories are studied by the use of Monte Carlo simulations. The phase structure and confining features are illustrated.

(*) *Note:* Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 16.00 hrs to meet the speaker and for informal discussions. Tea and coffee will be provided.

WEDNESDAY 18 JUNE

SPECIAL SEMINAR

at 10.30 hours - DD Amphitheatre
(Bldg. 31, 3rd floor)

"CDC's Loosely Coupled Network (LCN)"

by K. Viggers, Control Data Corporation,
Arden Hills, USA

Abstract: Control Data's Loosely Coupled Network (LCN) program is specifically designed to solve the problems of interprocessor and peripheral connectivity. LCN provides an efficient approach to interfacing a variety of mainframes and peripherals in local network. Control Data's solution to the local network problem encompass is not only the hardware interconnection media, but also comprehensive software and diagnosis capabilities.

PS SEMINAR

at 11.00 hrs - PS Auditorium (Bldg.6)

"Design Studies for the German Spallation Neutron Source SNQ"

by K.H. Reich / CERN

Abstract: This source is being designed for peak thermal neutron fluxes of 10^{16} n/cm²s. It consists of a 1.1 GeV linac, a spallation target (wheel) and, as an option, a compressor ring with possibly a second target. After a brief description of the research aims and the linac and target characteristics, the design of the compressor ring will be discussed in more detail. An isochronous strong focussing ring (operating at γ_{tr}) is being studied. An intensity of 3×10^{14} ppp is to be injected in ~ 700 turns and ejected in a single turn.

THEORETICAL SEMINAR

at 14.00 hours - TH Conference Room

"On the Pomeranchuk singularity in massless vector theories"

by J. Bartels / University of Hamburg

DD SEMINAR

at 16.00 hours - DD Amphitheatre
(Bldg. 31, 3rd floor)

"Experience controlling a switched communication network in Australia"

by H. Slettenhaar / CERN

Abstract: The Commonwealth Scientific and Industrial Research Organisation (CSIRO) has 37 divisions scattered all over Australia. Its Division of Computing Research provides a computing service called CSIRONET. CSIRONET currently has 100 nodes all communicating with the central facility in Canberra. It is a star network. Circuit switching is employed in some parts of the network and a Gandalf PACX has been installed recently, mainly to provide flexibility and easy configuration for medium speed synchronous lines. The speaker will describe the network and will elaborate on a micro-computer based control system which he has developed during his recent stay in Canberra.

THURSDAY 19 JUNE

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium (*)

"Review of PS Experiments in the Years 1979-1980"

by P. Baillon / CERN

Abstract: A review of the experiments performed at the CERN Proton Synchrotron during the years 1979 and 1980 will be given. The medium energy physics was devoted to a great variety of subjects which are rather different from those which are done elsewhere at CERN. There are systematic searches of resonance states by four different groups. Those states can be mesonic, baryonic or even dibaryonic and double strange. In nuclear physics one has the study of exotic nuclei and the measurement of K^-p

scattering length by X ray spectroscopy of K^p atoms. There are also some classical phase shift analyses and a fancy experiment which bends a beam of particles by curved crystal.

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FRIDAY 20 JUNE

PRESENTATION TECHNIQUE

de 09h00 à 16h30 - bus démonstration,
parking bât. 867, FG6 plan CERN Prévessin

ROHDE & SCHWARZ (D/F) propose une exposition d'appareils électroniques de mesure. Domaines couverts : champs radio-électriques jusqu'à 1 GHz; mise au point et test en télécommunication HF, V/UHF; contrôles automatiques en télécommunications HF, V/UHF; synthétiseurs programmables BUS CEI; analyse vectorielle et automatique des réseaux HF, V/UHF au moyen d'analyseur programmable BUS CEI; régulation programmable en température et thermomètre BUS CEI; source de tensions et de puissance programmables BUS CEI; mesures de temps à l'aide d'horloges atomiques; sonométrie.

MONDAY 23 JUNE

ISR SEMINAR

at 14.30 hrs - ISR Auditorium
(Top floor of Building 30)

"PROFI, a Computer Program for 3 Dimensional
Non-Linear Magnetostatic Field Calculations"

by W. Müller / Darmstadt

TUESDAY 24 JUNE

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hours - Auditorium

"Ultra heavy cosmic rays"

by P. Fowler / Bristol University

THURSDAY 26 JUNE

PS SEMINAR

at 11.00 hrs - PS Auditorium (Bldg.6)

"Raising the Intensity Limit of the
PS Booster"

by G. Nassibian and K.H. Schindl / CERN

CERN COLLOQUIUM

at 16.30 hours - Auditorium

"High pressure physics and the interiors
of planets"

by A. Cook / Cavendish Laboratory
University of Cambridge

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ENSEIGNEMENT TECHNIQUE

La brochure "Enseignement Technique - Programme 1980-1981 est actuellement disponible. Vous pouvez en obtenir un exemplaire soit en retournant la carte de commande qui a été distribuée à tous les membres du personnel, soit en remplissant et renvoyant le coupon ci-dessous.

Cette brochure contient la description détaillée des cours organisés à l'intention du personnel.

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Quelques expériences en physique des particules
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Effets biologiques des radiations; applications à la radioprotection et à la radiothérapie

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ADMINISTRATION

Techniques pour travaux administratifs

Informatique administrative : introduction à INFOL

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DELAI D'INSCRIPTION : 29 AOUT 1980

La brochure peut être également consultée dans les Secrétariats de Divisions.



A : Secrétariat de l'Enseignement Technique

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