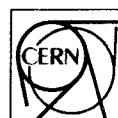
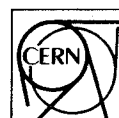


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WEEK MONDAY 29 AUGUST

n° 35/88

SEMAINE DU LUNDI 29 AOUT

SEMINARS SEMINAIRES

Friday 26 August

MEETINGS ON

PARTICLE PHYSICS PHENOMENOLOGY

at 11.00 hrs – TH Conference Room

High precision tests of electroweak physics at present (LEP/SLC) and future e^+e^- (CLIC/TLC) colliders

by Bryan W. LYNN / Stanford University

*High precision measurements in e^+e^- collisions can probe the particle spectrum **above** the centre-of-mass energy E_{cm} . These particles find loopholes in the decoupling theorem at the quantum loop level and make their presence known in a measurable way in 'low'-energy experiments. One example is the electron polarization asymmetry A_{LR} on Z^0 resonance. Another is very high energy $e^+e^- \rightarrow W^+W^-$ when heavy states can delay the onset of unitarity behaviour, thus betraying the existence of a rich QCD-like non-perturbative resonance structure above E_{cm} .*

Tuesday 30 August

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Neutrino masses, oscillations and decays

by Haim HARARI / Weizmann Institute

Neutrino masses, oscillations or decays have never been observed. We learn about them from direct measurements, cosmology, the standard model and beyond, solar neutrinos, SN87A, bounds on other leptonic flavour-changing processes, and neutrino-less double beta decay. Combining the above information we derive strong bounds on neutrino masses, mixing angles and lifetimes. Reviewing the allowed domains of these parameters, we conclude that a search for $\nu_\mu-\nu_\tau$ oscillations at mass differences above 1eV and very small mixing angles becomes a crucial experiment related to cosmological dark matter. Other experiments and theoretical implications will be discussed.

* Tea & coffee will be served at 16.00 hrs.

Wednesday 31 August

THEORETICAL SEMINAR

at 14.00 hrs – Theory Conference Room

How well can we measure electroweak boson self-interactions at future colliders ?

by U. BAUR / CERN

Prospects to test electroweak boson self-interactions at future colliders are discussed. The most general (effective) Lagrangian describing W- and Z-boson self-interactions is analysed. Partial wave unitarity severely limits any deviations of the ZWW and γWW vertices from the standard model prediction. Signatures for anomalous $WW\gamma$ couplings in $W\gamma$ production at the LHC and SSC are described in some detail. Finally, we compare the sensitivity of future hadron colliders and LEP 200 to anomalous W- and Z-boson self-interactions.

Wednesday 31 August

PRESENTATION

at 14.30 hrs – DD Auditorium

bldg 31, 3-005

Altera

by W. WEBER / Product Engineer, Stolz, Baden

The range of Altera products will be covered with special emphasis on :

- EPLDs
- Programmable microsequencer
- Bus peripherals
- PS/2 microchannel chips
- MAX multiple array matrix

The software tools available will be described together with a presentation on an IBM-PC.

Thursday 1 September

DD SEMINAR

at 10.30 hrs – DD Auditorium

bldg 31, 3-005

V5 VAXcluster configurations for performance

by D. DOHERTY / Digital USA

This session will discuss the significant VMS performance issues for all interconnect types of

VAXcluster systems. Performance capabilities of the various boot/disk servers will be presented, along with guidelines for configuring these systems. The enhancements that have been made to the VAXcluster software in VMS Version 5 will also be described.

Friday 2 September

MEETINGS ON PARTICLE PHYSICS PHENOMENOLOGY

at 11.00 hrs – Theory Conference Room

The photo- and hadro-production of heavy flavours

by R. K. ELLIS / FNAL

The status of the theory of heavy flavour production is reviewed. The results of recent higher order calculations are presented and their impact on the phenomenology of heavy quark production is described. Areas where further work is needed are also indicated.

Tuesday 6 September

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Experiments on the electric dipole moment of the neutron

by Mike PENDLEBURY / Sussex University

Wednesday 7 September

COMPUTER SEMINAR

at 16.00 hrs – Auditorium

Neural networks in high energy physics

by Bruce DENBY / Laboratoire de
l'Accélérateur Linéaire, Orsay

TRAINING AND EDUCATION ENSEIGNEMENT

SERVICE D'APPUI LINGUISTIQUE

Cours de : ANGLAIS - FRANCAIS - ALLEMAND

Les inscriptions sont ouvertes dès maintenant pour le prochain trimestre -
26 septembre au 21 décembre 1988.

Les formulaires d'inscriptions sont à votre disposition en libre service au Bât. 54,
rez-de-chaussée face au bureau R-013.
Ces cours s'adressent à toute personne travaillant au Cern ainsi qu'au conjoint,
pour certains types de cours.

Types de cours

1. **Cours réguliers** : 4 à 8 heures par semaine selon les niveaux et les objectifs des participants,
 - sur 8 niveaux en anglais et en français
 - sur 3 niveaux en allemand.
2. **Séminaires de 4 jours** : cours de perfectionnement axés sur les techniques de communication interpersonnelle efficace **en anglais** pour non-anglophones, **en français** pour non-francophones. Ces cours sont particulièrement destinés à des personnes possédant une bonne connaissance de la langue cible, mais désirant communiquer plus efficacement avec leurs collègues de langue anglaise ou de langue française.