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OFFICIAL NEWS

Members of the personnel shall be deemed to have taken note of the news under this heading.

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AJUSTEMENTS DES SALAIRES / CONTRIBUTION A L'ASSURANCE MALADIE AUSTRIA

Une erreur s'est glissée dans le Bulletin hebdomadaire no 28/90 - 9.7.90. La dernière phrase du deuxième paragraphe relatif aux ajustements des salaires devrait se lire :

'Dans ce cas ces fluctuations varient entre 0,17% vers le haut et 0,08% vers le bas.'

Division du Personnel
Tél. 4480

SALARY ADJUSTMENTS / HEALTH INSURANCE CONTRIBUTIONS

An error occurred in Weekly Bulletin 28/90 - 9.7.90. The last sentence of the second paragraph on Salary Adjustments should read :

'On this occasion the fluctuations vary between 0.17% upwards and 0.08% downwards.'

Personnel Division
Tel. 4480

SEMINARS SEMINAIRES

Monday 23 July

THIRD MEETING OF THE ECFA-LHC WORKING GROUP ON CALORIMETRY

09.00 to 17.30 hrs - PS Auditorium
bldg 6, 2-024

Topics to be discussed include various techniques for calorimeters at the LHC based on active media like scintillating fibres, scintillator tiles, crystals, silicon, room temperature liquids, cold liquids (Ar, Kr, Xe); calorimetry specific requirements for front end electronics, triggering and data acquisition; calorimetry requirements for addressing specific physics issues, etc.

Tuesday 24 July

TIS SEMINAR

at 14.30 hrs - PE Auditorium
Techn. Training, bldg 593, room 11

Indoor radon : risks, concerns, solutions

by Tomas BORAK / Department of Radiation
Biology, Colorado State University

Radon gas accumulating in family dwellings and public buildings is implicated as a serious health hazard. Is this a legitimate concern or merely a misinterpretation of scientific information? This seminar will present the methods used for estimating the risks from radon and discuss research related to understanding radon transport and accumulation in buildings.

Tuesday 24 July

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Tests of the standard electroweak model at LEP

by Brian W. LYNN / Stanford University & CERN

A direct comparison of the LEP data and the complete one-loop standard model is made possible by EXPOSTAR in order to extract the best possible value of the Z mass, top-quark mass, etc.

* Tea & coffee will be served at 16.00 hrs.

Wednesday 25 July

PS SEMINAR

at 11.00 hrs – PS Auditorium
bldg 6, 2-024

Bulk Acoustic Wave (BAW) devices and fiber optic links for Fermilab continuous and bunched beam cooling systems

by R. PASQUINELLI / Fermilab

In the past, Fermilab has used Superconducting coaxial cables to create the required notch filters for Stochastic Cooling. Fiber optic links have also been used to provide this function. Recent improvements in Bulk Acoustic Wave delays has proven to be a better solution for implementing notch filters. They are totally passive devices hence not requiring expensive cryogenic systems or active laser devices. A high performance notch filter has been designed, built and commissioned for the Antiproton Source Debuncher momentum cooling system. New filters are being built to replace existing cryogenic and laser filters. A 4-8 GHz Bunched beam cooling system is being designed for the Tevatron. Tests in the Antiproton Accumulator have proved successful. A system for the Tevatron presents additional engineering challenges in that a 22 microsecond delay must be built. The stability of this transmission line must be better than ± 5 picoseconds. A broad band fiber optic delay will be used with a stabilizing system that employs the coherent signal from the particle beams. Presentation of the hardware and performance results will be discussed.

Wednesday 25 July

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

String and membrane duality

by M. DUFF / Texas A&M University

In analogy with strings, we show that membrane theories exhibit global non-compact symmetries which originate from duality transformations on the world-volume which rotate field equations into Bianchi identities. In this way the Cremmer-Julia hidden symmetries of supergravity are seen to be a consequence of supermembrane duality. We also

discuss the duality between the heterotic string and the heterotic 5-brane.

Thursday 26 July

DEC SYSTEM MANAGERS' MEETING

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

- 1) Minutes of previous meeting and matters arising :
 - a) DEQNA support
- 2) Netsystem Status
- 3) Review of DEC services
- 4) DEC training (Security, Ultrix)
- 5) Review of CERN DEC Joint Projects
- 6) DEC Products announced in the last quarter
- 7) DECnet co-ordination
- 8) AOB

Friday 27 July

MEETING ON

PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

Electroweak tests from $e^+e^- \rightarrow \tau^-\tau^+$ at the Z^0

by Charles A. NELSON / SUNY at Binghamton

Measurement of the energy-correlation function for the decay sequence $Z \rightarrow \tau\bar{\tau} \rightarrow A^-B^+X$ determines independently the fundamental parameters $\sin^2\theta_W$, the tau Michel parameters, and for hadronic tau decays the analogous chiral parameter which tests for right-handed currents. The associated ideal statistical errors for the case of hadronic tau decays are reduced by about 25% by referencing this energy correlation to the incident e^- beam direction. An azimuthal-correlation function can be simply used to test for 'maximal P – maximal C' violation in the $Z \rightarrow \tau\bar{\tau}$ coupling.

Tuesday 31 July

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

A new upper limit to the electric dipole moment of the electron

by Harvey GOULD / Lawrence Berkeley Laboratory

A large electron electric dipole moment requires a new mechanism for CP-violation or a 'non-standard model'. Many of each have been proposed, and recently it has been shown that Higgs boson models can yield electron EDMs which are larger than 10^{-27} cm $\times$ e. Our experiment has obtained a new upper limit to the electron EDM which is consistent with there being no electron EDM larger than 1.5×10^{-26} cm $\times$ e, at least a factor of 5 smaller than previous results. We are working to improve our sensitivity by an order of magnitude or more.

* Tea & coffee will be served at 16.00 hrs.