

TUESDAY 4 NOVEMBER

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"Glueballs and how to look for them"

by P. Roy / Tata Institute, Bombay/CERN

THURSDAY 6 NOVEMBER

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"The total cross-sections of Σ^- and Ξ^- on nucleons"

by P. Extermann / Geneva Univ.

TRAINING AND **EDUCATION** **ENSEIGNEMENT**

MONDAY 27, TUESDAY 28,

THURSDAY 30 and FRIDAY 31 OCTOBER

ACADEMIC TRAINING

(Tel. 2844)

at 11.00 hrs - Auditorium

"Grand unified theories"

by J. Ellis / CERN

For abstract, see last week's Bulletin and notices.

WEDNESDAY 29 OCTOBER

ACADEMIC TRAINING

(Tel. 2844)

at 11.15 hrs - Auditorium

"Radiation therapy of cancer : biological and medical principles" - Lecture 3

by C.F. Von Essen / SIN, Villigen

Lecture 4 on November 5 at 11.15 hrs in the Auditorium.

JEUDI 30 OCTOBRE

ENSEIGNEMENT GENERAL

(Tél. 2844)

13h00/13h30 - Amphithéâtre

"Science pour Tous"

par R. Carreras

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POUR INFORMATION / FOR INFORMATION

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VENDREDI 31 OCTOBRE

SEMINAIRE DU LAPP

à 10h30 - Amphithéâtre du LAPP

Laboratoire d'Annecy-le-Vieux de Physique des Particules, chemin de Bellevue, Annecy-le-Vieux (Haute-Savoie, France)

"Résultats de l'expérience WA7 de diffusion élastique meson-proton et antiproton-proton"

par C. Baglin / LAPP

Renseignements complémentaires auprès de :
H. Pessard / CERN/ EP, tél. 6526, ou Laboratoire d'Annecy-le-Vieux, tél. (023) 23.32.45, int. 327.

FRIDAY 31 OCTOBER

SPECIAL SEMINAR (Tél. 5311)

at 16.30 hrs - Auditorium

"Adjustment to international life and work"

by N. Sartorius / WHO

Abstract: Dr. Norman Sartorius is Director of the Division for Mental Health of the World Health Organization in Geneva. This lecture will deal with the "cultural shock" and similar problems encountered by persons called upon to work for a while in a different cultural environment - a situation not unfamiliar to many of us.

THURSDAY 6, FRIDAY 7 AND

MONDAY 10 NOVEMBER

ACADEMIC TRAINING

(Tel. 2844)

at 11.00 hrs - Auditorium

"Pion condensation and its precursors"

by T.E.O. Ericson / CERN

Abstract : Nuclear pion condensate phenomena and their critical effects will be discussed in a non-technical approach emphasizing the generality of the phenomenon. The development of condensates are first discussed for pions in external potentials. The characteristic velocity dependence of the π -nuclear potential for physical pions easily gives rise to nuclear bound states. The characteristic influence of non-linear effects in the field controls the stability of the solutions, when the binding exceeds the restmass (Landau-Ginzburg equations). The coupling to the nucleons in the nucleus produces a spin-isospin ordering equivalent to zero sound. Well before the onset of the condensate critical phenomena occur (nuclear critical opalescence) associated with local spin-isospin ordering. These can be observed by appropriate studies with spin dependent probes in analogy to the exploration of antiferro-magnets with slow neutrons. The present experimental situation will be reviewed.