

enseignement

ACADEMIC TRAINING

Wednesday, February 12
Thursday, February 13
11.00
Auditorium

"Problems of classical dynamical systems"
by W. Thirring / Theoretical Physics Institute, Vienna
Lectures 1 and 2

February 18 and 20
11.00 - Auditorium

Lectures 3 and 4.

February 19, 21, 26, 28
March 5, 7
11.00
Auditorium

"Case Histories on the Nucleus/Fundamentals Interface"
by D.H. Wilkinson / Oxford University
Abstract : The lectures will be non-specialist and largely descriptive and will give :

1. A general overview of the ways in which we now think about the structure of the nucleus.
2. A number of 'case histories' bringing together a wide range of approaches to a number of topics of 'fundamental' as opposed to 'detailed' interest in which essential use is made of atomic nuclei and where information of value has already been obtained including :
 - a. The charge-independence and charge-symmetry of the nuclear force;
 - b. The spatial distribution of neutrons and protons and the constitution of the nucleus;
 - c. Parity mixing;
 - d. Isotensor terms in electromagnetic and weak processes;
 - e. Tests of CVC and information about nucleon structure;
 - f. Searches for second class currents;
 - g. The renormalization of the axial coupling constant in nuclear matter;
 - h. QED and Higgs scalar.
3. A discussion of ways in which the traditional description of the nucleus as made out of neutrons and protons must be modified by the explicit consideration of the effects of mesonic exchange currents and isobars.
4. A speculative review of the possible existence of new forms of nuclear matter, pion condensates, σ -condensates, etc.

ENSEIGNEMENT GENERAL

Lundi 10 février
13.00 - 13.30
Amphithéâtre

Cours "Connaissance du CERN", par R. Carreras
Séance supplémentaire : Film

Jeudi 13 février
13.00 - 13.30
Amphithéâtre

"Science pour Tous", par R. Carreras
Programme : (pour détails, voir affiches)

1. Vu, lu et entendu.
2. Question : L'éclair est un phénomène très bref qui ne dure qu'une fraction de seconde. Comment se fait-il que le bruit qui l'accompagne, le roulement du tonnerre, puisse durer de nombreuses secondes, même en l'absence d'écho sur les montagnes ? (Une des raisons est extrêmement simple !)
3. Thème principal : "Les aléas des témoignages visuels".
 - Le séminaire aura lieu le même jour, dès 17h.35 à la Salle D;
 - La séance de 13h.00 est retransmise en direct à l'amphithéâtre des ISR.