

CERN COLLOQUIUM

at 16.30 hrs - Auditorium

"Un nouveau développement pour le magnétisme nucléaire : le diagnostic médical in situ" (*)

by G.J. Béné / Université de Genève

(*) This Colloquium will be given in French.

Abstract : Depuis quelques années, l'emploi du magnétisme nucléaire et particulièrement de la résonance magnétique nucléaire en vue du diagnostic médical a fait l'objet de travaux importants. Ces travaux ont été développés dans deux directions : 1/ étude de la relaxation nucléaire de tissus biologiques; 2/ développement d'une technique d'observation d'un tissu donné dans un système biologique complexe (Spin mapping).

MONDAY 28 NOVEMBER

EP SEMINAR

at 11.00 hrs - EF Conference Room
(Lab.13 - 2nd floor - Office No 005)

"Experiments on e^+e^- colliding beams
at Novosibirsk"

by A. Chilingarov / Novosibirsk Institute
of Nuclear Physics, USSR

CERN NUCLEAR PHYSICS SEMINAR

at 16.00 hrs - Theory Conference Room

"Positron creation and inner shell ionization
in collisions of very heavy ions"

by G. Soff / University of Frankfurt

TUESDAY 29 NOVEMBER

CERN COLLOQUIUM

at 16.30 hrs - Auditorium

"Towards the absolute zero"

by O.V. Lounasmaa / Helsinki University
of Technology; currently on leave of
absence at CEN-Saclay

WEDNESDAY 30 NOVEMBER

CERN ENERGY SEMINAR (TECHNICAL LEVEL)

at 16.30 hrs - Council Chamber (*)
(* Please note that this Seminar will be
held exceptionally in the Council Chamber.)

"Efficient energy use and well-being :
the Swedish example"

by L. Schipper / Royal Academy of Sciences,
Stockholm, and Energy and Environment
Division, Lawrence Berkeley Laboratory

THURSDAY 1 DECEMBER

CERN ENERGY SEMINAR (GENERAL LEVEL)

at 16.30 hrs - Auditorium

"What is energy conservation?"

by L. Schipper / Royal Academy of Sciences,
Stockholm, and Energy and Environment
Division, Lawrence Berkeley Laboratory

TRAINING AND EDUCATION ENSEIGNEMENT

JEUDI 24 NOVEMBRE

ENSEIGNEMENT GENERAL

de 13h00 à 13h30 - Amphithéâtre

"Science pour Tous", par R. Carreras

*Thème principal : "Le bénéfice des changeurs
automatiques de monnaie et la détection des
Trous Noirs"*

MONDAY 21, TUESDAY 22 AND WEDNESDAY 23 NOVEMBER

ACADEMIC TRAINING

at 11.00 hrs - Auditorium

"Neutron physics : from artificial radio-
activity to fission"

by E. Amaldi / University of Rome

Abstract :

1. Discovery by the Joliot-Curie's of artificial radioactivity by alpha particles. Discovery by Fermi of radioactivity induced by neutrons. The puzzle of neutron reactions without change of Z.
2. Discovery of the slowing-down of neutrons. Capture and scattering of slow neutrons. Neutron resonances. Bohr model and Breit-Wigner formula.
3. Radioactivity produced in uranium and thorium by slow neutrons. Interpretation in terms of transuranic elements. The work of O. Hahn and L. Meitner and families of isomers. The discovery of fission.

WEDNESDAY 23 NOVEMBER

ACADEMIC TRAINING

at 16.30 hrs - Auditorium

"General science monthly cross-section"

by R. Carreras