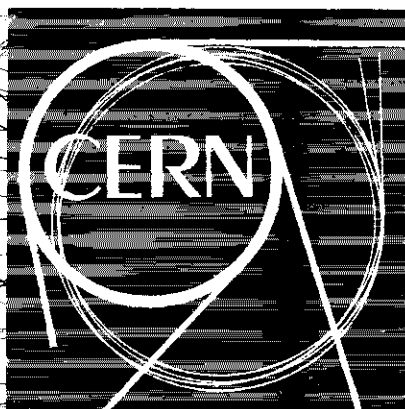




semaine / week 8.1 - 14.1

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bulletin

seminars

CERN PARTICLE PHYSICS

SEMINARS

Tuesday, January 9
16.30
Auditorium

"A two-component view of multi-particle final states"
by H. Harari / Weizmann Institute

Tuesday, January 16,
16.30
Auditorium

Recent experimental results on hadron production in deep inelastic
electron scattering
H. Meyer / DESY

enseignement

ACADEMIC TRAINING

January 10, 11, 12
16, 17, 18
11.00
Auditorium

HIGH-ENERGY PHYSICS

"Interactions of high-energy particles with nuclei"
by L. Bertocchi (ICTP - Trieste)

Abstract :

General properties of elastic, inelastic, coherent and incoherent scattering on nuclei. Use of "nuclear targets". Selection rules. Elastic coherent scattering. Multiple scattering Glauber series. Optical model limit. Inclusion of inelastic intermediate states. Eikonal solution in potential theory. Elastic incoherent scattering. Multiple scattering expression. Optical model limit. Coherent production. Application to photoproduction. Application to hadroproduction. Total photon cross-section. V.D.M. paradox. Discussion of experimental results. Incoherent production. The problem of inelastic intermediate states in hadroproduction. Effects of correlations.

This lecture series is intended for experimental physicists and young theorists (not experts in the field).