

UNIVERSITY OF GENEVA

Particle Physics Department

24, quai Ernest-Ansermet

1211 Geneva 4

Tel. 022 702 6273

Fax 022 781 2192

Wednesday 15 March

SEMINAR ON PARTICLE PHYSICS

at 17.00 hrs – Stückelberg Auditorium

Diffractive Processes in ep Collisions at HERA

by Nikolaj PAVEL / Institute of Experimental Physics,
Hamburg University

A new class of events has been identified in deep inelastic ep collisions at HERA, which is characterized by a large rapidity gap between the proton beam direction and the observed hadronic final state. The characteristics of these events at high 4-momentum transfer Q^2 are suggestive for diffractive scattering. Diffractive scattering has been extensively studied in hadron-hadron collision and photoproduction (γp) events. At HERA however diffractive scattering can be studied not only in γp events at much higher values of the γp c.m.s. energy, but for the first time also in deep inelastic scattering. Recent results from both HERA experiments will be presented and discussed in the context of the different models for diffractive scattering. The plans for future analyses at the HERA experiments will be also briefly described.

EDUCATION SERVICES EDUCATIFS

ACADEMIC TRAINING

Tel. 3127

LECTURE SERIES

13, 14, 15, 16 & 17 March

11.00 to 12.00 hrs – Auditorium

New detector techniques

by E. IAROCCHI / INFN, Frascati, Italy

The lectures will concentrate on the particle detectors which are under development for LHC. Many of them feature enough conceptual simplicity so to be useful examples to introduce the basic principles of the various detector types.

The main detector areas will be covered as follows :

1. Detectors of ionization charge, in liquids gases, and solids. These mostly cover the tracking devices. The emphasis will be on the operation of the detector elements.
2. Calorimeters based on liquids and scintillators. Here the emphasis will be on the subsystem aspects.

20, 21 & 22 March

11.00 to 12.00 hrs – Auditorium

Physics and Archaeology

by M. AITKEN / Oxford University, Oxford, UK

ENSEIGNEMENT GÉNÉRAL

Tél. 5811

Jeudi 16 mars

à 13.00 h – Amphithéâtre

Science pour tous

par Rafel CARRERAS

Jeudi 16 mars

PERMANENCE BUREAUTIQUE

Bâtiment 864, salle Adams

Dès 09.00 h. – **Atelier Word 6**

Vous pouvez poser vos questions par courrier électronique à

Valerie_Huret@adminmail1