Abstract #012345
Parallel sessions: 2,3,4
Plenary sessions: 1,2,3

Hadron Production in Deep-Inelastic Diffraction and Pomeron Structure

H1 Collaboration

Measurements of deep-inelastic positron-proton diffractive scattering, $e^+p \rightarrow eXY$, are presented. Shown are the hadronic energy flow in the rest frame of the system X, the squared charged particle momentum (p_T^2) and the Feynman-x (x_F) spectra, as well as the mean p_T^2 as a function of x_F. The data are consistent with a picture in which the partonic structure of the diffractive exchange ($\mathbb{P}$) is dominated by gluons, but they cannot be described if the $\mathbb{P}$ is composed primarily of quarks.