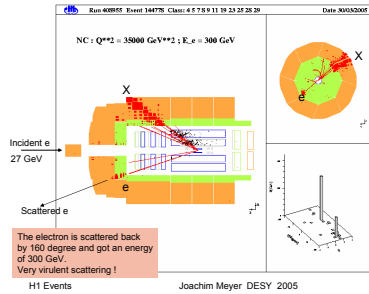
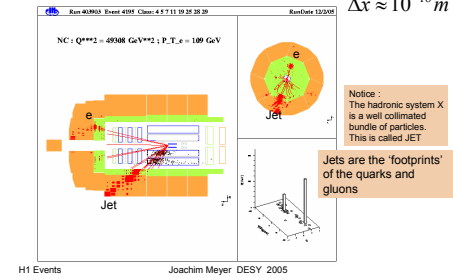


# Events in the H1 Detector

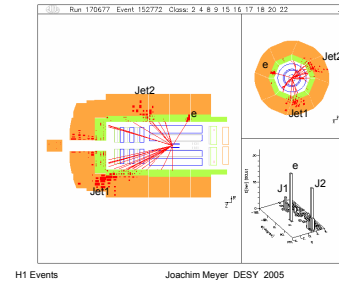
Back to the Deep-Inelastic-Electron-Proton-Scattering (DIS)  $ep \rightarrow e'X$



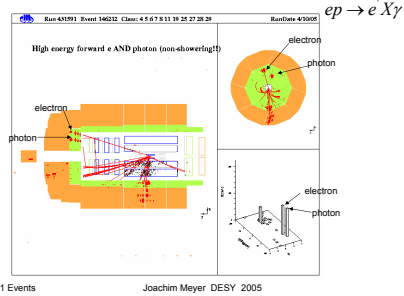
and here its even more virulent.  $ep \rightarrow e'X$   
The squared momentum transfer is  $Q^2 \approx 50000 \text{ GeV}^2$ , this corresponds to a space resolution of  $\Delta x \approx 10^{-18} \text{ m}$



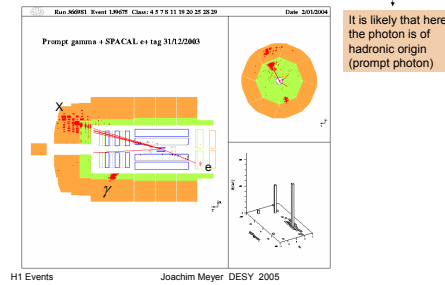
A NC-DIS event with two jets  $ep \rightarrow e'Jet_1, Jet_2$



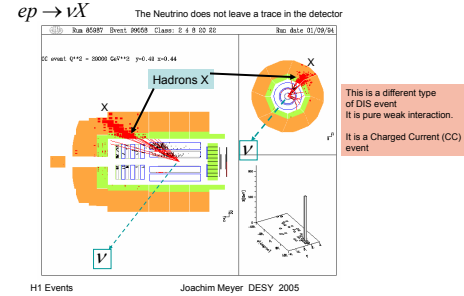
Here the 'forward scattered' electron radiates a very energetic photon  $ep \rightarrow e'X\gamma$



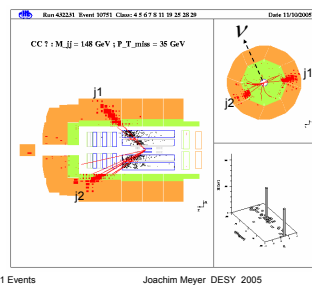
Another  $ep \rightarrow e'X\gamma$  event, but here the scattered electron and photon are far apart



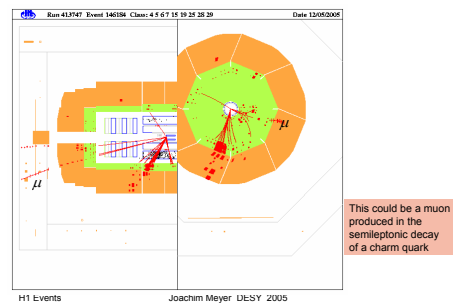
A new event class: in this event the hadrons X are NOT balanced by an electron!



This is a CC event with a pronounced two-jet structure  $ep \rightarrow \nu j_1 j_2$



This CC event shows a muon separated from the jet



Another event class: 'Photoproduction' Here two jets are visible, but the scattered electron is not recorded, it leaves the detector under very small scattering angle

