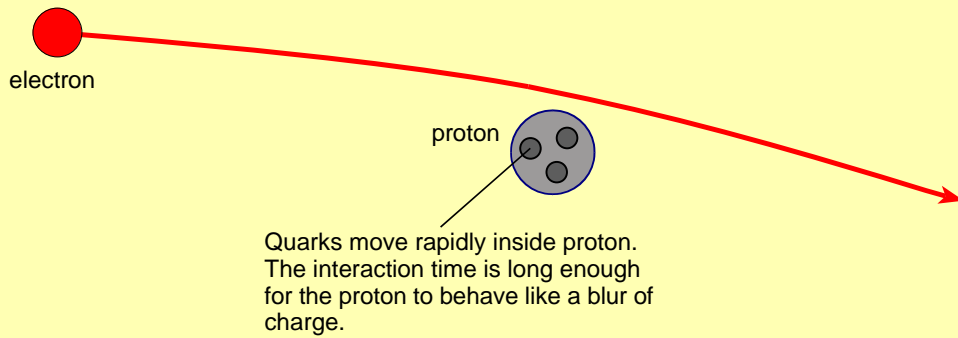


## TAP 522-5: Deep inelastic scattering

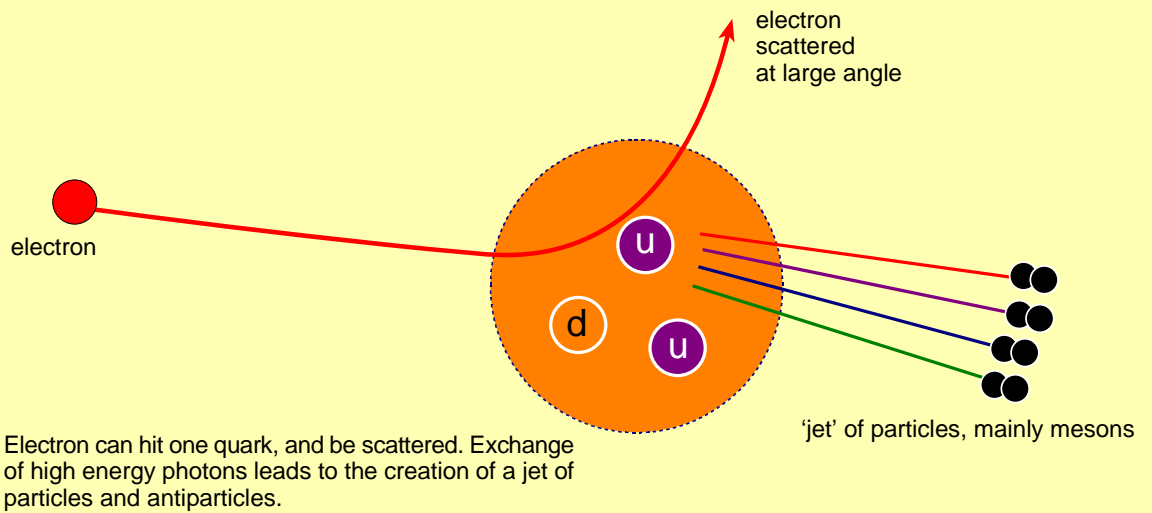
### Deep inelastic scattering

#### Medium energy: elastic scattering

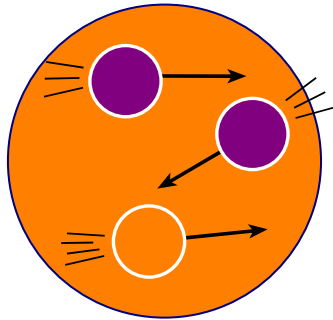


### Deep inelastic scattering

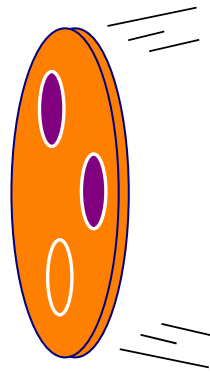
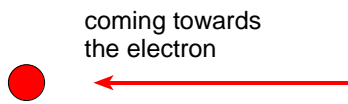
#### High energy: deep inelastic scattering



## Quarks as relativistic stationary pancakes



proton as seen by observer not moving relative to it:  
rapidly moving spherical quarks fill a sphere



proton as seen by electron moving rapidly towards it:  
almost stationary pancake quarks filling a flat disk

**Practical advice**

The diagram could be used as an OHT and discussed in class

**External reference**

This activity is taken from Advancing Physics chapter 17, 1500