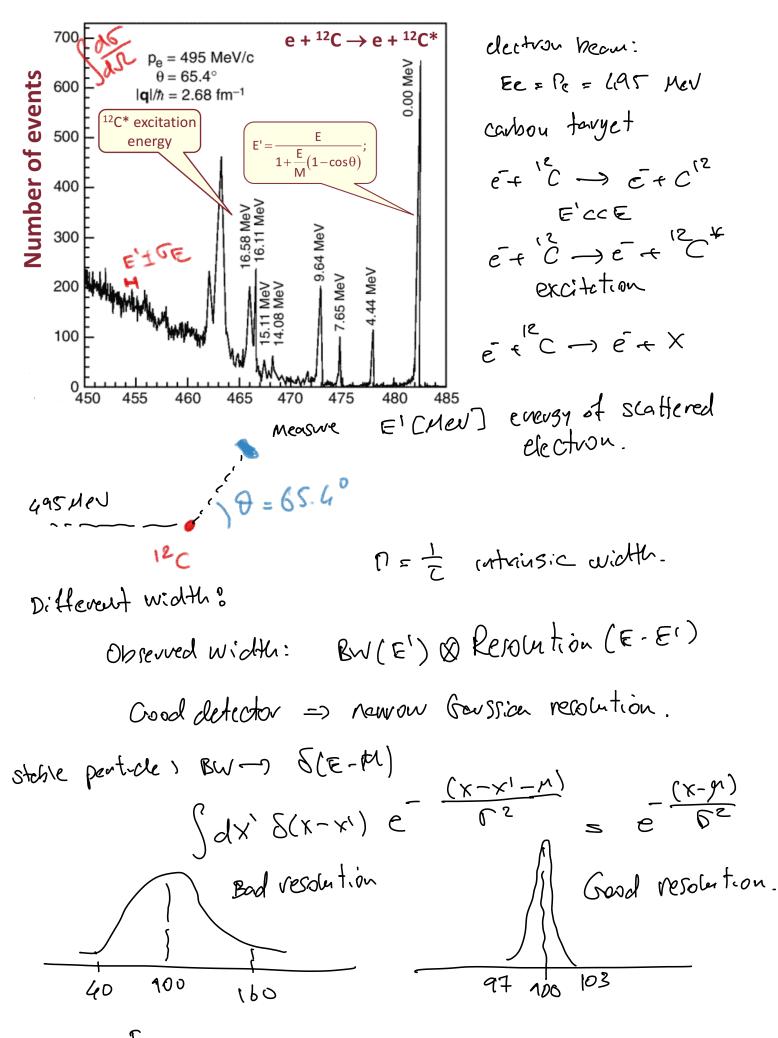
$\frac{P_1}{N} = \frac{e^{-\frac{N^2}{2}}}{P_1} = \frac{P_2}{E[\vec{p}]}$   $\frac{P_1}{N} = \frac{P_2}{P_1} = \frac{P_2}{N} = \frac{P_1 - P_2}{N}$   $\frac{P_2}{N} = \frac{P_3}{N} = \frac{P_4}{N} = \frac$ LAB Prane: Pe=(M,D) Ee>>Me 02 = W2- M2 + SWN Elastic case: M2-> M2 => Q2=ZMN Experimetally: E, E', O  $(E',0) \rightarrow (Q^2,V) \rightarrow (Y,Y)$ Inelastic x = 2 Bjorken Verieble.  $\lambda = \frac{E}{h} = \frac{E - E_i}{h}$   $0 < E_i < E = 0$   $0 < \lambda < \sqrt{1}$  $X = \frac{w^2 - h^2 + 2MV}{2MV} = 1 + \frac{M^2 - w^2}{2MV}$   $V^2 > M^2$ => EX < 1 Elastic: Q2 = 2MV => X=1 t= 92 = (P1-P3)2



1+2 = (Sm? =)

E= 495 MeV 0= 65.4°

N = 12 mp = 18 GeV

Total cross section (a) 80± E

() stucture of target.

) spetial extention.

do 2 Mis (phase Space)

N = Cf( MI ) 1>

Born approximation: planer were for initial and final\_s

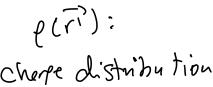
fe = √17 e i p. r?

Mz Jare = i pir e + i pir 1

$$= \int d^3 y \, \frac{e^{i\vec{q}\cdot\vec{r}}}{r} \, d \, \frac{1}{q^2}$$

Extended body:

 $V(\vec{r}) = \int d^3r' \frac{\rho(\vec{r})}{|\vec{r} - \vec{r}|}$ 



of ferret.

((ri)) = 3TE E(Li)

Extended body:  $e(\vec{r}) = 2re f(\vec{r})$ 

M v 2p2rez Sarre (9.7) Sari

V(V)

Mu for 
$$\frac{e^{i\vec{q}\cdot\vec{r}\cdot\vec{r}\cdot\vec{r}}}{|\vec{r}\cdot\vec{r}\cdot\vec{r}\cdot\vec{r}|}$$
 form factor

From fector: Fourier trensform of special everyle distribution

Mu  $\frac{2p^2re^2}{q^2}$  F(qe)

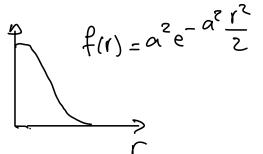
 $\frac{d}{d}$  de  $|\mathcal{M}|^2$  us  $|\frac{2p^2re^2}{q^2}|^2$  | F(qe)| $|^2$ 
 $\frac{d}{d}$  |  $\frac$ 

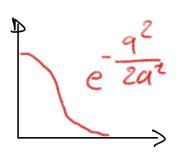
Examples of for):

$$F(92) = 1$$

$$\xrightarrow{\mathcal{L}(\lambda)} \lambda$$

2) Garssian Cherre distribution





3) Homogenous terret

$$f(x) = \frac{1}{4\pi \delta_3}$$

Measure #events at 92 and 92 × 0 => Expend F(98) @98=0.

$$= 1 - \frac{1}{6} 9^{2} < r^{2} > cr^{2} > cr^{2} = \int_{0}^{\infty} f(r) r^{2} r^{2} dr$$