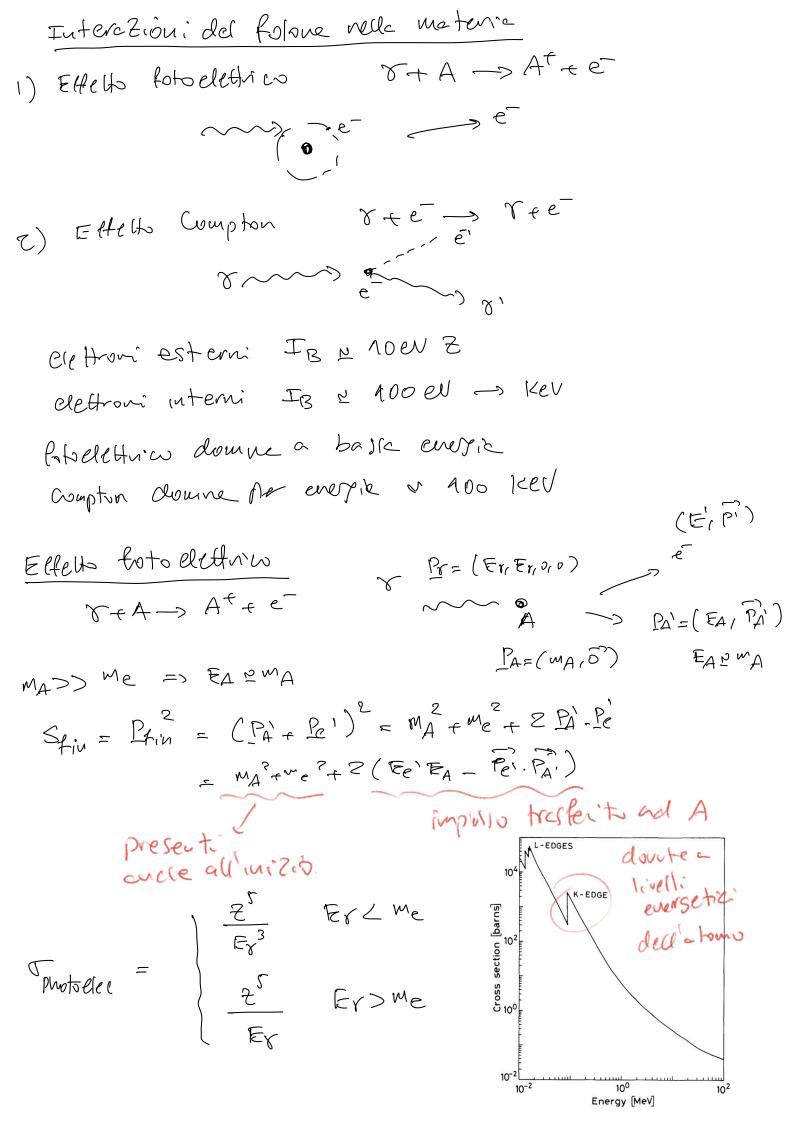
particule cariche rella materie: (leptoni, adroni) - int. EM =) ion: 27,2 ione irrogs: amento (Bremsstrahlup) et: E>Ec= 600 MeV positrone et: -ion: 27e - irrags,& Ket NØ Eet 19 Me Steto legeto instabile (ete) positronio positroni >> 8

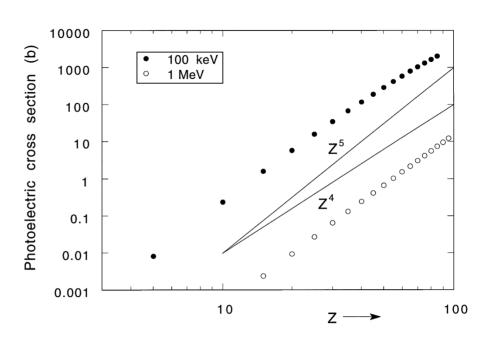
+1 -1

NO nou si

conserve p Stin = Pr = # Sin = (Pet+Per)2 = Mer+Mer+ 2 Pet. Per pos.ifranio ->> X X Nel référence solidée con positionio : (ete) -> 8 $\phi = \overrightarrow{P_{in}} \neq \overrightarrow{P_{i}} = \overrightarrow{P_{i}}$ Pix = yr = y



fotoelettico Low, ven le per Erc Me



$$E^{\ell} = \frac{1 + \frac{M^{2}}{E^{\ell}} (1 - COU)}{\beta^{\ell}}$$

1, m, ')-e 1 Calo

Er 2 Me =>
$$Er' = \frac{Er}{1+2} = \frac{1}{3} Er$$
.
 \overline{e} prodotto δ 1 on: \overline{G} e $Ee' \ge 200 keV$
 $T': Complose of Photoefec.$

produzione di Coppia

r (+oncteirs) -> et e-

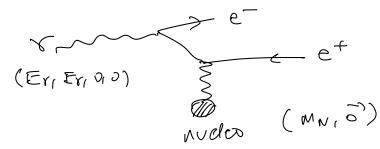
r ~~ et

Salo rede meteric.

Nel Uvoto 3

Sfin = (Pet+Pet) = Met + Met + E Pet. Pet

=> Sfin #0 => impossibile



T+N-> efe-+N

Sin = (Br + Pw) = Pr 2 + Br 2 + 2 Pr. Pr = MN + 2 MN Er

Stin = (Pw+Pe++ 12) = Pw+ (Pet+Pe) + 2 Pv. (Pe++Pe)

Soglic del processo;

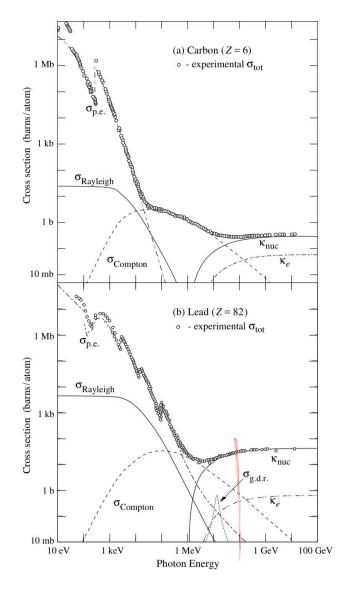
a Soglia Per = Per = Per = messur ampulso.

$$\underline{P}_{e}^{-} = (m_{e}, \overline{o}) \qquad \underline{P}_{e}^{+} = (m_{e}, \overline{o})$$

Sfin = mo + Zme2 + Zmeme + ZMA (me+me)

Er 2 1 GeV =>

ef 2 500 MeV => irvegsicurun b



Lughe De di affenve? Tone per toton:

$$X = \frac{1}{2}$$
 $X = \frac{1}{2}$
 $X =$

 $n = \frac{1}{A} NA$ densité di avelei $X_{S} = \frac{1}{C \cdot N}$ si affente?

J: Sezione d'unto totale del fotone

Folow con Er> 100 MeU Or Witconte = Trosete

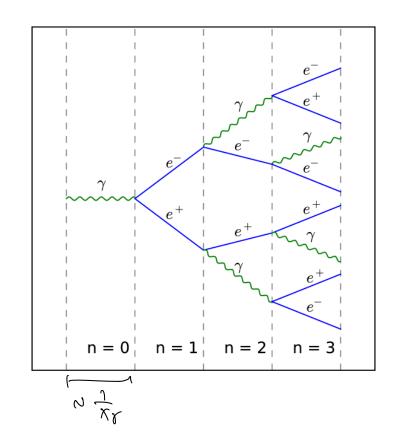
$$\chi_{\delta} = \frac{1}{\sigma_{\text{ele-N}}} = \frac{1}{\chi_{\delta}} \frac{1}{\chi_{\delta}}$$

Sperimentalmentes: Osserve Ix 1 1 7 70

Xo: lunghette di redictione

Thete =
$$\frac{1}{\chi_r} = \frac{1}{4} = \frac{1}$$

Scieun: Telettro magnetici



Ex>> 2me