- 1.), 3.) see Mothemetice hot book / PDF feynmen-rule-Erner-Heisenberg. No
- 4.) hotebook Enter-Heisenberg-Metching. Nb
- 2.) Let's first consider gr gr scattering agree $gr = \frac{1}{m_e^2}$ $gr = \frac{1}{m_e^2}$ $gr = \frac{1}{m_e^2}$ $gr = \frac{1}{m_e^2}$

Dimension of σ is area, ∞ $\sigma \sim \frac{1}{E^2}$

timensional analysis yields n = 6

The explicit calculations in 3.) & 4.)

right
$$f(\theta) = 139 \left(\frac{180 \pi}{7}\right)_{5} \left(3 + \cos_{5}\theta\right)_{5}$$

Diagrams for yy -> xxxx include

$$\sim \left(\frac{1}{m^8}\right)^2 E_n^y \sim \alpha^8 \frac{E_y^{14}}{m^{16}}$$
 (A)

but perhaps we can use a higher-order Lagrengia. to directly produce py -> xxxx?

needs 6 ye's = F6

dimension 12

e.g.
$$\Delta l = \frac{C_6}{m_e^8} (\mp_{\mu\nu} \mp^{\mu\nu})^3$$

we see that there contributions enter of the some order as the ones is category (A). Let us also count power of a

-, This is less suppressed then (A)!