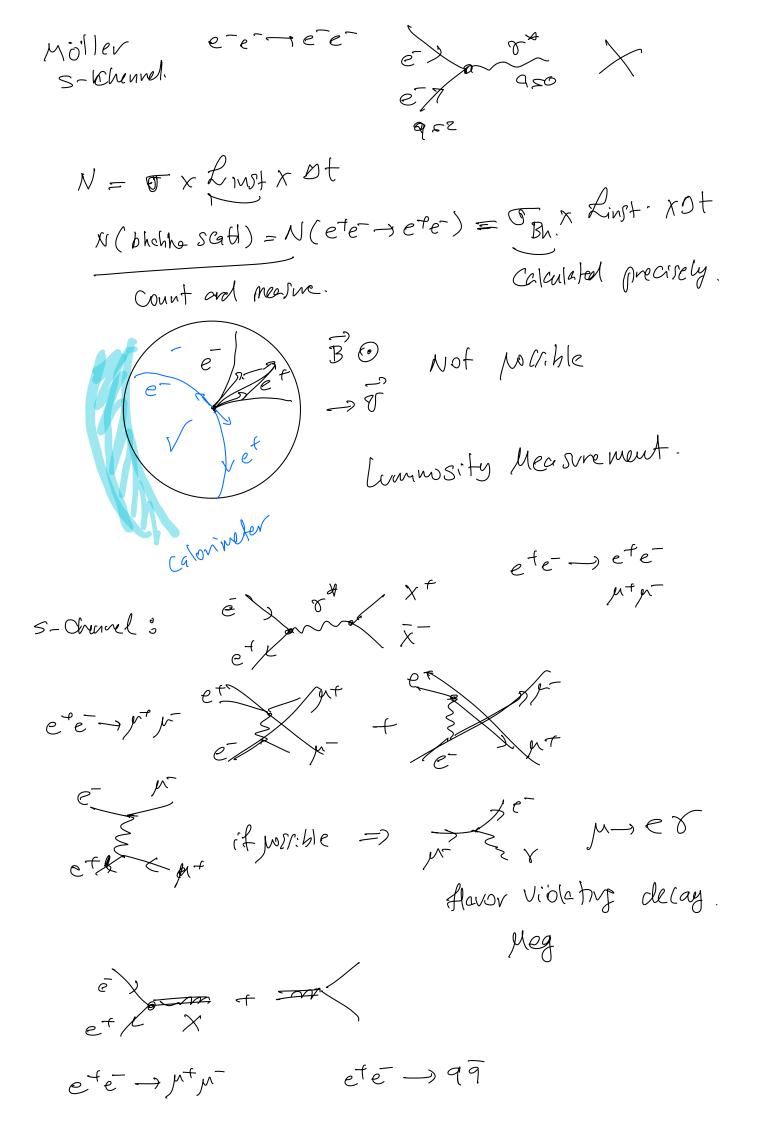
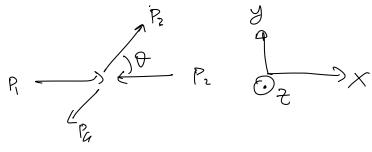
to discover quaks, color exist QEO »e± elementary point like. 2-body scattering. in the Center of Marss. 1 (EI+EZ) IPONT IMZ SIMPLE QED process e-e-> e-e-U-Chennel. t-Clarrel Scatterry Bhabha Scattering S-Channel Annihilation. +- Chanel



Mandel Stem Vaniables: Sitiu

High Eurry Regime

E;>> M;



$$P_1 = (E_1, P, 0, 0)$$

$$S = (P_1 + P_2)^2 = (E_1 + E_2)^2 = (ZE)^2 = 4E^2$$

Symon hears. E = E2.

$$S(R+R_{1})^{2} = R^{2} + R^{2})$$

$$= M^{2} + me^{2} + R(E^{2} + R^{2})$$

$$= (R^{2} + R^{2}) + (me^{2} + R^{2}) + R^{2}$$

$$= (R^{2} + R^{2}) + (me^{2} + R^{2}) + R^{2}$$

$$= (R^{2} + R^{2}) + (me^{2} + R^{2}) + R^{2}$$

$$= (R^{2} + R^{2}) + (me^{2} + R^{2}) + R^{2}$$

$$= (R^{2} + R^{2})^{2} + (R^{2} + R^{2})^{2} + \frac{1}{2} + (R^{2} + R^{2}) + R^{2}$$

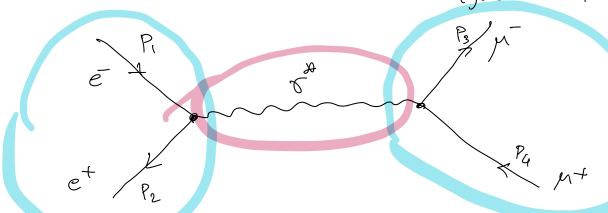
$$= (R^{2} + R^{2})^{2} + (R^{2} + R^{2})^{2} + \frac{1}{2} + (R^{2} + R^{2}) + R^{2}$$

$$= (R^{2} + R^{2})^{2} + (R^{2} + R^{2})^{2} + \frac{1}{2} + (R^{2} + R^{2})^{2} + R^{2}$$

$$= (R^{2} + R^{2})^{2} + (R$$

IMI2 = | M(+M2+M3) = IM(2+0xx)





$$-i\mathcal{M} = \left(\overline{\nu}(P_2)ie\gamma^{\mu}u(P_1)\right) \times \frac{-i\partial_{\mu\nu}}{2} \times$$

$$\times$$
 [$\overline{u}(P_3)ie\delta^{\nu}\nu(P_3)$]

$$= \mathcal{M} = -\frac{e^2}{s} \underline{j}_{(e)} \cdot \underline{j}_{(p)}$$

UIV Sprors. Eret

$$j_{(n)}^{\nu} = \bar{u}(P_3) \mathcal{V}^{\nu} \nu(P_4)$$