

$$\mathbf{p}_1 - \mathbf{p}_4 = (0, \mathbf{p}_1 + \mathbf{p}_3), \quad \text{so}$$

$$\begin{aligned} (p_1 - p_4)^2 &= -(\mathbf{p}_1 + \mathbf{p}_3)^2 = -(\mathbf{p}_1^2 + \mathbf{p}_3^2 + 2\mathbf{p}_1 \cdot \mathbf{p}_3) \\ &= -(2\mathbf{p}_1^2 + 2|\mathbf{p}_1||\mathbf{p}_1| \cos \theta) = -4\mathbf{p}_1^2 \cos^2 \theta/2. \end{aligned}$$

$$\mathcal{M} = \frac{g^2}{4} \left( \frac{c^2}{E^2} - \frac{1}{\mathbf{p}_1^2 \cos^2 \theta/2} \right).$$

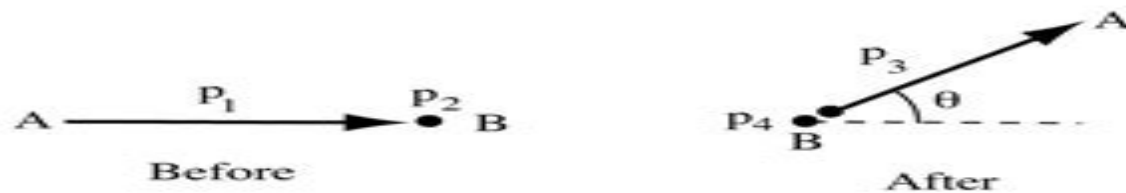
$$\begin{aligned} \frac{d\sigma}{d\Omega} &= \left( \frac{\hbar c}{8\pi} \right)^2 \frac{|\mathcal{M}|^2}{(2E)^2} \frac{|\mathbf{p}_4|}{|\mathbf{p}_1|}; \quad |\mathbf{p}_4| = |\mathbf{p}_1|, \\ &= \left( \frac{\hbar c}{8\pi} \right)^2 \frac{1}{(2E)^2} \left( \frac{g^2}{4} \right)^2 \left( \frac{c^2}{E^2} - \frac{1}{\mathbf{p}_1^2 \cos^2 \theta/2} \right)^2 \end{aligned}$$

$$\text{But } \mathbf{p}_1^2 = E^2/c^2 - m_A^2 c^2, \quad \text{so}$$

$$\begin{aligned} \left( \frac{c^2}{E^2} - \frac{1}{\mathbf{p}_1^2 \cos^2 \theta/2} \right) &= \frac{c^2}{E^2} - \frac{c^2}{(E^2 - m^2 c^4) \cos^2 \theta/2} \\ &= c^2 \frac{[(E^2 - m^2 c^4) \cos^2 \theta/2 - E^2]}{E^2 (E^2 - m^2 c^4) \cos^2 \theta/2} = c^2 \frac{[E^2 (\cos^2 \theta/2 - 1) - m^2 c^4 \cos^2 \theta/2]}{E^2 (E^2 - m^2 c^4) \cos^2 \theta/2} \\ &= -c^2 \frac{(E^2 \sin^2 \theta/2 + m^2 c^4 \cos^2 \theta/2)}{E^2 (E^2 - m^2 c^4) \cos^2 \theta/2} = -c^2 \frac{(E^2 \tan^2 \theta/2 + m^2 c^4)}{E^2 (E^2 - m^2 c^4)} \end{aligned}$$

$$\boxed{\frac{d\sigma}{d\Omega} = \left\{ \frac{g^2 \hbar c^3}{64\pi} \frac{(E^2 \tan^2 \frac{\theta}{2} + m^2 c^4)}{E^3 (E^2 - m^2 c^4)} \right\}^2}.$$

(c)



$$\frac{d\sigma}{d\Omega} = \left( \frac{\hbar}{8\pi m_B c} \right)^2 |\mathcal{M}|^2$$

$$\left. \begin{aligned} p_1 &= \left( \frac{E}{c}, \mathbf{p}_1 \right), & p_2 &= (m_B c, \mathbf{0}) \\ p_3 &= \left( \frac{E}{c}, \mathbf{p}_3 \right), & p_4 &= (m_B c, \mathbf{0}) \end{aligned} \right\}$$

From these, we get:

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**J Ma**



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