

$$\underbrace{\frac{d\sigma}{d\vec{x}}}_{\text{black}} \propto \underbrace{\int \frac{f(q_1)}{q_1} \frac{f(q_2)}{q_2} dq_1 dq_2}_{\text{red}} \times \underbrace{|\mathcal{M}(\vec{y})|^2 d\Phi(\vec{y})}_{\text{blue}} \times \underbrace{W(\vec{y}|\vec{x})}_{\text{magenta}}$$