

$$\sigma[F] = \sum_m \int [d\{p, f\}_m] \overbrace{f_{a/A}(\eta_{\mathfrak{a}}, \mu_F^2) f_{b/B}(\eta_{\mathfrak{b}}, \mu_F^2)} \frac{1}{2\eta_{\mathfrak{a}}\eta_{\mathfrak{b}}p_A \cdot p_B} \\ \times \underbrace{\langle \mathcal{M}(\{p, f\}_m) | F(\{p, f\}_m) }_{\text{blue}} \underbrace{ | \mathcal{M}(\{p, f\}_m) \rangle}_{\text{red}}$$