$$\frac{2s}{\pi\alpha^2}\frac{d\sigma}{d\cos\theta}\left(e^+e^-\to f\bar{f}\right)=\left|\frac{1}{1-\Delta\alpha}\right|^2\left(1+\cos^2\theta\right)$$
$$+4Re\left\{\frac{2}{1-\Delta\alpha}\chi(s)\left[\hat{g}_\nu^e\hat{g}_\nu^f\left(1+\cos^2\theta\right)+2\hat{g}_a^e\hat{g}_a^f\cos\theta\right]\right\}$$
$$+16\left|\chi(s)\right|^2\left[\left(\hat{g}_a^{e^2}+\hat{g}_\nu^{e^2}\right)\left(\hat{g}_a^{f^2}+\hat{g}_\nu^{f^2}\right)+8\hat{g}_a^e\hat{g}_a^f\hat{g}_\nu^e\hat{g}_\nu^f\cos\theta\right]$$

$$e^+e^-\to Z^0\to I\bar{I},q\bar{q}$$
$$\left|\vec{a}\cdot\vec{b}\right|=\Sigma a_{jk}^i+b_i^{bj}$$
$$i\left(\partial_\mu\bar{\psi}\gamma^\mu+m\bar{\psi}\right)=0\Leftrightarrow\left(\Box+m^2\right)\psi=0$$
$$L_{em}=eJ_{em}^\mu A_\mu,J_{em}^\mu=\bar{I}\gamma_\mu I,M_i^j=\sum A_\alpha\tau_i^{\alpha j}$$