

$$e^+e^-\rightarrow Z^0\rightarrow l\bar{l}, q\bar{q}$$

$$|\vec{a}\bullet\vec{b}|=\Sigma a_{jk}^ib_i^{bj}$$

$$i(\partial_\mu \bar{\psi} \gamma^\mu + m \bar{\psi}) = 0$$

$$\Leftrightarrow (\square + m^2)\psi = 0$$

$$j_{em} = e J_{em}^\mu A_\mu, \quad J_{em}^\mu = \bar{l}$$

$$\gamma_\mu I, \quad M_i^j = \sum A_\alpha \tau$$