

(d) Use the SU(2) group generator relations:

$$[T^i, T^j] = i \epsilon^{ijk} T^k, (T^i)_{jk} = -i \epsilon_{ijk}, \text{Tr}(T^i T^j) = k \delta^{ij}$$

(e) Calculate the change of the Lagrangian.

$$\delta F_{\mu\nu}^i = \epsilon^{ijk} \theta^j F_{\mu\nu}^k$$