

$$\left. \begin{array}{cc} d & s \\ \hline \text{ } & \text{ } \\ \hline \bar{s} & \bar{d} \end{array} \right\} K^0 \quad + \quad \left. \begin{array}{cc} d & s \\ \hline \text{ } & \text{ } \\ \hline \bar{s} & \bar{d} \end{array} \right\} \bar{K}^0 \quad + \quad \text{Diagram} \quad \propto \Lambda^2 G_F^2$$

The diagram shows two terms in a sum, followed by a third term proportional to $\Lambda^2 G_F^2$.

The first term is a box diagram for K^0 mixing. It consists of two horizontal lines. The top line has an incoming d quark on the left and an outgoing s quark on the right. The bottom line has an incoming \bar{s} quark on the left and an outgoing \bar{d} quark on the right. A circle (loop) connects the two lines. The top arc of the loop is labeled u with an arrow pointing right. The bottom arc is also labeled u with an arrow pointing right.

The second term is a box diagram for \bar{K}^0 mixing. It is identical to the first term, but the top line has an incoming d quark and an outgoing s quark, and the bottom line has an incoming \bar{s} quark and an outgoing \bar{d} quark. The loop is also labeled u with arrows pointing right.

The third term is a diagram representing a higher-order correction. It consists of two horizontal lines. The top line has an incoming d quark on the left and an outgoing s quark on the right. The bottom line has an incoming \bar{s} quark on the left and an outgoing \bar{d} quark on the right. A circle (loop) connects the two lines. The top arc of the loop is labeled u with an arrow pointing right. The bottom arc is also labeled u with an arrow pointing right.