

$$\begin{array}{c}
 \begin{array}{cc}
 d & u \\
 \bullet & \bullet \\
 -1/2 & 1/2 \\
 \hline
 \text{Dublett } (2)
 \end{array}
 \otimes
 \begin{array}{cc}
 \bar{u} & \bar{d} \\
 \bullet & \bullet \\
 -1/2 & 1/2 \\
 \hline
 \text{Dublett } (2)
 \end{array}
 =
 \begin{array}{ccc}
 d\bar{u} & \frac{1}{\sqrt{2}}(u\bar{u} - d\bar{d}) & u\bar{d} \\
 \bullet & \bullet & \bullet \\
 -1 & 0 & 1 \\
 \hline
 (3) \longrightarrow
 \end{array}
 \left\{
 \begin{array}{l}
 L=0; S=0 \\
 \pi^-, \pi^0, \pi^+ \\
 M_{\pm} = 139 \text{ MeV} \\
 M_0 = 135 \text{ MeV}
 \end{array}
 \right.
 \end{array}$$
  

$$\begin{array}{c}
 \frac{1}{\sqrt{2}}(u\bar{u} + d\bar{d}) \\
 \bullet \\
 \circ \\
 \hline
 (1)
 \end{array}$$