

PHYSICS 225 A - HOMEWORK ~~4~~ 4

1

1

(a) σ spinless, all angular momentum orbital

$$\text{Parity: } (-1)^L \Rightarrow J^P = 0^+, 1^-, 2^+$$

This does not explain quantum numbers of actual mesons, eg π is 0^-

(b) $P(\sigma, \psi) = (-1)(-1)^L = (-1)^{L+1}$

$$\begin{array}{l} L=0 \rightarrow J=1 \rightarrow 1^- \\ L=1 \rightarrow J=0, 1, 2 \rightarrow 0^+, 1^-, 2^+ \dots \\ L=2 \rightarrow J=1, 2, 3 \rightarrow 1^-, 2^-, 3^+ \dots \end{array}$$

Inconsistent with pseudoscalar meson quantum numbers

2

(a) $3 \otimes 3 = 6 \oplus \bar{3}$ (Halzen and Martin, Figure 2.6)

(b) 6 is flavor symmetric, one isospin triplet
one isospin doublet
one isospin singlet



$\bar{3}$ is flavor antisymmetric, one isospin doublet
one isospin singlet



(c) Lowest mass, $L=0 \Rightarrow P = (-1)^L = +1$

$$|\psi\rangle = |\text{spin}\rangle |\text{space}\rangle |\text{flavor}\rangle |\text{color}\rangle$$

↑
symmetric
for $L=0$

↑
antisymmetric

$$\begin{array}{l} S=1 \text{ symmetric} \Rightarrow 6 \text{ representation, } J^P = 1^+ \\ S=0 \text{ antisymmetric} \Rightarrow \bar{3} \text{ representation, } J^P = 0^+ \end{array}$$

Quarks And Leptons Halzen Solutions Manual

SA Dillow



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