

PHYSICS 225 A - HOMEWORK ~~4~~ 4

1

1

(a) σ spinless, all angular momentum orbital

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

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

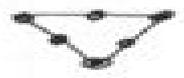
(b) $P(\sigma, \nu_s) = (-1)(-1)^L = (-1)^{L+1}$

$L=0 \rightarrow$	$J=1 \rightarrow$	1^-	}	Inconsistent with pseudoscalar meson quantum numbers
$L=1 \rightarrow$	$J=0, 1, 2 \rightarrow$	$0^+, 1^-, 2^+, \dots$		
$L=2 \rightarrow$	$J=1, 2, 3 \rightarrow$	$1^-, 2^-, 3^-, \dots$		

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

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

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